SUPPLEMENTAL SITE INVESTIGATION REPORT

FORMER GORHAM MANUFACTURING FACILITY 333 ADELAIDE AVENUE PROVIDENCE, RHODE ISLAND

Prepared for:

Textron, Inc.
40 Westminster Street
Providence, Rhode Island 02903

Prepared by:

MACTEC Engineering and Consulting, Inc.
107 Audubon Road
Wakefield, Massachusetts 01880

July 31, 2006

Volume II of IV

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FORMER GORHAM MANUFACTURING FACILITY
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Volume II of IV

APPENDIX E

Laboratory Reports

Volume II of IV

ESS Laboratory

Division of Thielsch Engineering, Inc.

September 17, 2001

Mark Salvetti
Harding ESE
107 Audubon Road Suite 301
Wakefield, MA 01880

Dear Mark Salvetti:

We appreciate this opportunity to provide you with our analytical services. ESS Laboratory is committed to providing the highest quality service. Our dedication to each client includes responsiveness to emergencies, dependable, well-written reports, and client services, which include the availability of all analysts to answer your inquiries.

Enclosed is your data report. The invoice for this project is being forwarded to your Accounts Payable Department unless other arrangements have previously been made with the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department. We value our continued relationship and look forward to hearing from you in the future.

Sincerely,

ESS LABORATORY

Laurel Stoddard
Laboratory Director

Enclosure

HJL

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

PROJECT NARRATIVE

CLIENT: Harding ESE
CLIENT PROJECT ID: Gorham
ESS PROJECT ID: 01090092

Sample Receipt
1 Soil sample was received on September 10, 2001 for the analysis specified on the enclosed Chain of Custody Record.

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan.

Metals Analysis
ESS Laboratory utilized the established linear dynamic range to determine acceptable analytical results.
The Method Blank for Calcium was present at a level of 11.2 mg/L, however, was less than 20 times the sample concentration.

No other observations noted.

This signed Certificate of Analysis is our approved release of your analytical results. Beginning with this Project Narrative, the entire report has been paginated. The Chain of Custody is the final report page. This report should not be copied except in full without the approval of the laboratory.

End of project narrative.

Laurel Stoddard/Eric Baanante — Date 9/20/01
Laboratory Director/Operations Manager

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: GSS-1

ESS Project ID: 01090092
ESS Sample ID: 01090092-01
Date Sampled: 9/10/01

Test Name	Result	Units	MRL	Date Analyzed	Method	Analyst
Total Cyanide	ND	mg/Kg dry wt.	2.1	09/11/01	9010	AR

ND = Not Detected above MRL

MRL = Method Reporting Limit.

Approved By: _____ Date: 9/14/01

MDP

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Total Metals

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: GSS-1
Date Sampled: 9/10/01
Percent Solid: 100

ESS Project ID: 01090092
ESS Sample ID: 01090092-01
Units: mg/Kg dry weight
ICP1 Information: 1/1.63/100
ICP2 Information: 1/1.63/100
Mercury Information: 2/0.61/40

Test Name	Result	MRL	Date Analyzed	Analyst	Method
Aluminum	**859** *	1	09/11/01	ML	6010
Antimony	ND	6.1	09/11/01	ML	6010
Arsenic	**28.8**	1.23	09/11/01	ML	6010
Barium	**26.1**	12.3	09/11/01	ML	6010
Beryllium	**0.061**	0.061	09/11/01	ML	6010
Cadmium	ND	0.61	09/11/01	ML	6010
Calcium	**360**	6.1	09/11/01	ML	6010
Chromium	**1240**	3.07	09/11/01	ML	6010
Cobalt	ND	3.07	09/11/01	ML	6010
Copper	**129**	1.23	09/11/01	ML	6010
Iron	**8290** *	1	09/11/01	ML	6010
Lead	**428**	6.1	09/11/01	ML	6010
Magnesium	**325**	6.1	09/11/01	ML	6010
Manganese	**24.4**	1.84	09/11/01	ML	6010
Mercury	ND	0.0656	09/11/01	SVD	7471
Nickel	**13.8**	2.45	09/11/01	ML	6010
Potassium	**875**	307	09/10/01	ML	6010
Selenium	ND	6.1	09/11/01	ML	6010
Silver	**26.7**	0.61	09/11/01	ML	6010
Sodium	ND *	50	09/11/01	ML	6010
Thallium	ND	3.1	09/10/01	ML	6010
Vanadium	**11.1**	3.07	09/11/01	ML	6010
Zinc	**18.5**	3.07	09/11/01	ML	6010

* = Result and MRL based on 10x dilution.
MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: _____ Date: 9/11/01

HJL

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QUALITY CONTROL SECTION

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Total Metals

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: Method Blank
Date Sampled: N/A
Percent Solid: 100

ESS Project ID: 01090092
ESS Sample ID: 010910pbs
Units: mg/Kg dry weight
ICP1 Information: 1/1.5/100
ICP2 Information: 1/1.5/100
Mercury Information: 1/0.6/40

Test Name	Result	MRL	Date Analyzed	Analyst	Method
Aluminum	ND	6.7	09/11/01	ML	6010
Antimony	ND	6.7	09/11/01	ML	6010
Arsenic	ND	1.33	09/11/01	ML	6010
Barium	ND	13.3	09/11/01	ML	6010
Beryllium	ND	0.067	09/11/01	ML	6010
Cadmium	ND	0.67	09/11/01	ML	6010
Calcium	**11.2**	6.7	09/11/01	ML	6010
Chromium	ND	3.33	09/11/01	ML	6010
Cobalt	ND	3.33	09/11/01	ML	6010
Copper	ND	1.33	09/11/01	ML	6010
Iron	ND	6.7	09/11/01	ML	6010
Lead	ND	6.7	09/11/01	ML	6010
Magnesium	ND	6.7	09/11/01	ML	6010
Manganese	ND	2	09/11/01	ML	6010
Mercury	ND	0.0333	09/11/01	SVD	7471
Nickel	ND	2.67	09/11/01	ML	6010
Potassium	ND	333	09/10/01	ML	6010
Selenium	ND	6.7	09/11/01	ML	6010
Silver	ND	0.67	09/11/01	ML	6010
Sodium	ND	333	09/11/01	ML	6010
Thallium	ND	3.3	09/10/01	ML	6010
Vanadium	ND	3.33	09/11/01	ML	6010
Zinc	ND	3.33	09/11/01	ML	6010

MRL = Method Reporting Limit. ND = Not Detected above MRL.

Approved By: M Date: 9/12/01

HJL

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Total Metals

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: Laboratory Control Sample
Date Sampled: N/A
Percent Solid: 100

ESS Project ID: 01090092
ESS Sample ID: 010910lcss
Units: mg/Kg dry weight
ICP1 Information: 1/1.5/100
ICP2 Information: 1/1.5/100
Mercury Information: 1/0.6/40

Test Name	% Rec.	Limits	Date Analyzed	Analyst	Method
Aluminum	**108**	80-120	09/11/01	ML	6010
Antimony	**89**	80-120	09/11/01	ML	6010
Arsenic	**92**	80-120	09/11/01	ML	6010
Barium	**94**	80-120	09/11/01	ML	6010
Beryllium	**92**	80-120	09/11/01	ML	6010
Cadmium	**87**	80-120	09/11/01	ML	6010
Calcium	**98**	80-120	09/11/01	ML	6010
Chromium	**94**	80-120	09/11/01	ML	6010
Cobalt	**94**	80-120	09/11/01	ML	6010
Copper	**94**	80-120	09/11/01	ML	6010
Iron	**106**	80-120	09/11/01	ML	6010
Lead	**95**	80-120	09/11/01	ML	6010
Magnesium	**93**	80-120	09/11/01	ML	6010
Manganese	**95**	80-120	09/11/01	ML	6010
Mercury	**98**	80-120	09/11/01	SVD	7471
Nickel	**94**	80-120	09/11/01	ML	6010
Potassium	**84**	80-120	09/10/01	ML	6010
Selenium	**85**	80-120	09/10/01	ML	6010
Silver	**92**	80-120	09/11/01	ML	6010
Sodium	**99**	80-120	09/11/01	ML	6010
Thallium	**86**	80-120	09/10/01	ML	6010
Vanadium	**94**	80-120	09/11/01	ML	6010
Zinc	**98**	80-120	09/11/01	ML	6010

MRL = Method Reporting Limit. ND = Not Detected above MRL.

Approved By: LAS Date: 9/17/01

LAS

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ESS LABORATORY CERTIFICATIONS

U.S. Army Corps of Engineers
Soil and Water

Navy Installation Restoration QA Program
Soil and Water

Rhode Island: 179

Connecticut: PH-0750

Maine: RI002

Massachusetts: M-RI002

New Hampshire (NELAP):
Drinking Water: 242400-C
Wastewater: 242400-D

New York (NELAP): 11313
Potable Water
Non Potable Water
Solid and Hazardous Waste

ESS Laboratory

Division of Thielsch Engineering, Inc.
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Tel. (401) 461-7181 Fax (401) 461-4486
www.thielsch.com

CHAIN OF CUSTODY

Page 1 of 1

Turn Time 24 HRS ___ Standard (2 Weeks) Other ___
If faster than 5 days, prior approval by laboratory is required # ___

Electronic Deliverables ✓ Yes ___ No
Formats Equis EDD

ESS LAB PROJECT ID: 01090092
Special Detection Limits

State where samples were collected from:
MA RI CT NH NJ NY ME USACE Other ___

Co. Name: Harding ESE	Project #: 44997/0911146	Project Name (20 Char. or less): Graham	
Contact Person: Mark Salvetti	Address: 107 Audubon Rd		
City: Wakefield	State: MA	Zip: 01880	PO#:
Telephone #: (781) 273-5717	Fax #: (781) 246-5060	Email Address: mjsalvetti@mercte.com	

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Number of Containers	Type of Containers	Analysis Required: Cyanide (total)	TAL 23 target metals
	9/10/01	1205		X	So	GSS-1	1	V	X	X

Container Type: P-Poly G-Glass S-Sterile (V-VOA)

Matrix: S-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No
Seals Intact ___ Yes ___ No NA: ___
Cooler Temp: ___

Internal Use Only
[ ] Pickup
[ ] Technicians ___

Comments: Expedited 24 HR turn-time please.
Fax ASAP - to above #

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
J. Naisby	9/10/1700		9-10-01 1700				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

ESS Laboratory

Division of Thielsch Engineering, Inc.

September 27, 2001

Mark Salvetti
Harding ESE
107 Audubon Road Suite 301
Wakefield, MA 01880

Dear Mark Salvetti:

We appreciate this opportunity to provide you with our analytical services. ESS Laboratory is committed to providing the highest quality service. Our dedication to each client includes responsiveness to emergencies, dependable, well-written reports, and client services, which include the availability of all analysts to answer your inquiries.

Enclosed is your data report. The invoice for this project is being forwarded to your Accounts Payable Department unless other arrangements have previously been made with the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department. We value our continued relationship and look forward to hearing from you in the future.

Sincerely,

ESS LABORATORY

Laurel Stoddard
Laboratory Director

Enclosure

JJG

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

PROJECT NARRATIVE

CLIENT: Harding ESE
CLIENT PROJECT ID: Gorham
ESS PROJECT ID: 01090145

Sample Receipt
12 Soil samples were received on September 13, 2001 for the analysis specified on the enclosed Chain of Custody Record.

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan.

Metals Analysis
ESS Laboratory utilized the established linear dynamic range to determine acceptable analytical results.
The batch Matrix Spike/Matrix Spike Duplicate was outside of the recommended range for Copper due to matrix interferences, however post digestion spike was within limits.

No other observations noted.

This signed Certificate of Analysis is our approved release of your analytical results. Beginning with this Project Narrative, the entire report has been paginated. The Chain of Custody is the final report page. This report should not be copied except in full without the approval of the laboratory.

End of project narrative.

Laurel Stoddard/Eric Baanante
Laboratory Director/Operations Manager

9/27/01
Date

JJG

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Total Metals

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: GMSD00600201
Date Sampled: 9/13/01
Percent Solid: 91

ESS Project ID: 01090145
ESS Sample ID: 01090145-01
Units: mg/Kg dry weight
ICP2 Information: 5/1.55/100

Test Name	Result	MRL	Date Analyzed	Analyst	Method
Copper	**4880**	7.09	09/18/01	ML	6010

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: M Date: 9/20/01

HJL

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Total Metals

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: GMSD00600202
Date Sampled: 9/13/01
Percent Solid: 93

ESS Project ID: 01090145
ESS Sample ID: 01090145-02
Units: mg/Kg dry weight
ICP2 Information: 1/1.58/100

Test Name	Result	MRL	Date Analyzed	Analyst	Method
Copper	**1190**	1.36	09/14/01	ML	6010

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: _____ Date: 9/20/01

HJL

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Total Metals

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: GMSD00600201N
Date Sampled: 9/13/01
Percent Solid: 93

ESS Project ID: 01090145
ESS Sample ID: 01090145-03
Units: mg/Kg dry weight
ICP2 Information: 1/1.5/100

Test Name	Result	MRL	Date Analyzed	Analyst	Method
Copper	**2420**	1.43	09/14/01	ML	6010

MRL = Method Reporting Limit. ND = Not Detected above MRL.

Approved By: M Date: 9/20/01

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Total Metals

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: GMSD00600201E
Date Sampled: 9/13/01
Percent Solid: 97

ESS Project ID: 01090145
ESS Sample ID: 01090145-04
Units: mg/Kg dry weight
ICP2 Information: 1/1.54/100

Test Name	Result	MRL	Date Analyzed	Analyst	Method
Copper	**72.8**	1.34	09/14/01	ML	6010

MRL = Method Reporting Limit. ND = Not Detected above MRL.

Approved By: _____ Date: 9/20/01

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Total Metals

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: GMSD00600201S
Date Sampled: 9/13/01
Percent Solid: 99

ESS Project ID: 01090145
ESS Sample ID: 01090145-05
Units: mg/Kg dry weight
ICP2 Information: 1/1.7/100

Test Name	Result	MRL	Date Analyzed	Analyst	Method
Copper	**16.2**	1.19	09/14/01	ML	6010

MRL = Method Reporting Limit. ND = Not Detected above MRL.

Approved By: _____ Date: 9/20/01

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Total Metals

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: GMSD00600201W
Date Sampled: 9/13/01
Percent Solid: 89

ESS Project ID: 01090145
ESS Sample ID: 01090145-06
Units: mg/Kg dry weight
ICP2 Information: 1/1.57/100

Test Name	Result	MRL	Date Analyzed	Analyst	Method
Copper	**2030**	1.43	09/14/01	ML	6010

MRL = Method Reporting Limit. ND = Not Detected above MRL.

Approved By: M Date: 9/20/01

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

8100M Total Petroleum Hydrocarbons

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: GMSS00100201
Date Sampled: 9/13/01
Analyst: CH
Date Analyzed: 9/16/01
Date Prepped: 9/14/01

ESS Project ID: 01090145
ESS Sample ID: 01090145-07
Units: mg/Kg dry weight
Dilution: 1
Percent Solid: 94
Sample Amount: 30.1 g

Test Name	Result	MRL
Total Petroleum Hydrocarbons	**563**	26.5

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: CH Date: 9-17-01

JJG

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

8100M Total Petroleum Hydrocarbons

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: GMSS00100202
Date Sampled: 9/13/01
Analyst: CH
Date Analyzed: 9/16/01
Date Prepped: 9/14/01

ESS Project ID: 01090145
ESS Sample ID: 01090145-08
Units: mg/Kg dry weight
Dilution: 1
Percent Solid: 95
Sample Amount: 30.6 g

Test Name	Result	MRL
Total Petroleum Hydrocarbons	**537**	25.8

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: CH Date: 9-17-01

JJG

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

8100M Total Petroleum Hydrocarbons

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: GMSS00100201N
Date Sampled: 9/13/01
Analyst: CH
Date Analyzed: 9/16/01
Date Prepped: 9/14/01

ESS Project ID: 01090145
ESS Sample ID: 01090145-09
Units: mg/Kg dry weight
Dilution: 1
Percent Solid: 94
Sample Amount: 30.2 g

Test Name	Result	MRL
Total Petroleum Hydrocarbons	**629**	26.4

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: CH Date: 9.17.01

JJG

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

8100M Total Petroleum Hydrocarbons

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: GMSS00100201E
Date Sampled: 9/13/01
Analyst: CH
Date Analyzed: 9/16/01
Date Prepped: 9/14/01

ESS Project ID: 01090145
ESS Sample ID: 01090145-10
Units: mg/Kg dry weight
Dilution: 1
Percent Solid: 91
Sample Amount: 30.3 g

Test Name	Result	MRL
Total Petroleum Hydrocarbons	**500**	27.2

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: CH Date: 9-17-01

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

8100M Total Petroleum Hydrocarbons

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: GMSS00100201W
Date Sampled: 9/13/01
Analyst: CH
Date Analyzed: 9/16/01
Date Prepped: 9/14/01

ESS Project ID: 01090145
ESS Sample ID: 01090145-12
Units: mg/Kg dry weight
Dilution: 1
Percent Solid: 95
Sample Amount: 30.1 g

Test Name	Result	MRL
Total Petroleum Hydrocarbons	**1430**	26.2

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: CH Date: 9-17-01

JJG

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11A

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

8100M Total Petroleum Hydrocarbons

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: GMSS00100201S
Date Sampled: 9/13/01
Analyst: CH
Date Analyzed: 9/16/01
Date Prepped: 9/14/01

ESS Project ID: 01090145
ESS Sample ID: 01090145-11
Units: mg/Kg dry weight
Dilution: 1
Percent Solid: 95
Sample Amount: 30 g

Test Name	Result	MRL
Total Petroleum Hydrocarbons	**258**	26.3

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: CH Date: 9-17-01

JJG

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QUALITY CONTROL SECTION

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Total Metals

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: Method Blank
Date Sampled: N/A
Percent Solid: 100

ESS Project ID: 01090145
ESS Sample ID: 010914pbs
Units: mg/Kg dry weight
ICP2 Information: 1/1.5/100
Mercury Information: 1/0.6/40

Test Name	Result	MRL	Date Analyzed	Analyst	Method
Copper	ND	1.33	09/14/01	ML	6010

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: M Date: 9/20/01

HJL

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CERTIFICATE OF ANALYSIS

Total Metals

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: Laboratory Control Sample
Date Sampled: N/A
Percent Solid: 100

ESS Project ID: 01090145
ESS Sample ID: 010914lcss
Units: mg/Kg dry weight
ICP2 Information: 1/1.5/100
Mercury Information: 1/0.6/40

Test Name	% Rec.	Limits	Date Analyzed	Analyst	Method
Copper	**101**	80-120	09/14/01	ML	6010

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: m

Date: 9/20/01

HJL

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

8100M Total Petroleum Hydrocarbons Surrogate Report

Client Name: Harding ESE

Client Project ID: Gorham ESS Project ID: 01090145

Lab ID (Dilution Factor)	O-Terphenyl
01090145-07 (1x)	78
01090145-08 (1x)	71
01090145-09 (1x)	100
01090145-10 (1x)	111
01090145-11 (1x)	101
01090145-12 (1x)	45
01090149-02MS (1x)	91
01090149-02MSD (1x)	87
GC091401B6 (1x)	74
GC091401B6BS (1x)	93

Surrogate	Limits
O-Terphenyl	39 - 137

Approved by: CH Date: 9.17.01

JJG

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ESS Laboratory

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CERTIFICATE OF ANALYSIS

8100M Total Petroleum Hydrocarbons

Client Name: Harding ESE
Client Project ID: Gorham
Client Sample ID: Method Blank
Date Sampled: N/A
Analyst: CH
Date Analyzed: 9/15/01
Date Prepped: 9/14/01

ESS Project ID: 01090145
ESS Sample ID: GC091401B6
Units: mg/Kg dry weight
Dilution: 1
Percent Solid: 100
Sample Amount: 30 g

Test Name	Result	MRL
Total Petroleum Hydrocarbons	ND	25

MRL = Method Reporting Limit.

ND = Not Detected above MRL.

Approved By: CH Date: 9-17-01

JJG

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Quality Assurance Statement

Project ID 01090145

The data and information contained in this report has been submitted with the intent to satisfy the standards set forth by Good Laboratory Practices (GLPs), current Good Manufacturing Practices (cGMPs), ISO, EPA and the National Environmental Laboratory Accreditation Conference (NELAC).

This is to certify that ESS Laboratory's Quality Assurance/Quality Control Department has reviewed the documentation enclosed herein. The examination of data and its supporting documentation has been reviewed for completeness, good documentation, precision and accuracy.

Quality Assurance / Quality Control Department

Reviewed by:

Kelly DeSousa Date: 9/27/01

QA/QC Manager (or designee)

ESS LABORATORY CERTIFICATIONS

U.S. Army Corps of Engineers
Soil and Water

Navy Installation Restoration QA Program
Soil and Water

Rhode Island: 179

Connecticut: PH-0750

Maine: RI002

Massachusetts: M-RI002

New Hampshire (NELAP):
Drinking Water: 242400-C
Wastewater: 242400-D

New York (NELAP): 11313
Potable Water
Non Potable Water
Solid and Hazardous Waste

ESS Laboratory

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CHAIN OF CUSTODY

Page 1 of 2

020

Turn Time ___ Standard (2 Weeks) Other 5day,
If faster than 5 days, prior approval by laboratory is required # ____

State where samples were collected from:
MA (RI) CT NH NJ NY ME USACE Other ____

Electronic Deliverables X Yes ___ No
Formats Excel EDD

ESS LAB PROJECT ID 01090145
Special Detection Limits

Co. Name	Project #	Project Name (20 Char. or less)
Harding ESE	44997/011146	Gorham

Contact Person	Address
Mark Salvetti	107 Audubon rd ste 301

City	State	Zip	PO#
Wakefield	MA	01880	

Telephone #	Fax #	Email Address
781 213 5717	781 246-5060	mjsalvetti@mactec.com

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Number of Containers	Type of Containers	Analysis Required: TPH 8100M	Copper 6010B
1	9/13/01	1430		X	So	GMSD006002O1	1	G		X
2		1435				GMSD006002O2	1			X
3		1440				GMSD006002O1N	1			X
4		1445				GMSD006002O1E	1			X
5		1450				GMSD006002O1S	1			X
6		1455				GMSD006002O1W	1			X
7		1515				GMSS00100201	1		X	
8		1520				GMSS00100202	1		X	
9		1525				GMSS00100201N	1		X	
10		1530				GMSS00100201E	1		X	

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present X Yes ___ No
Seals Intact ___ Yes ___ No NA: ____
Cooler Temp: 2.5

Internal Use Only
[ ] Pickup
[ ] Technicians ____

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
J. Marden	9/13/01 1615		9-13-01 1615				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

ESS Laboratory

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CHAIN OF CUSTODY

Page 2 of 2

021

Turn Time: X Standard (2 Weeks) Other 5 days
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from: MA RI CT NH NJ NY ME USACE Other _____

Electronic Deliverables: ___ Yes ___ No
Formats _____

ESS LAB PROJECT ID: 01090145
Special Detection Limits

Co. Name	Project #	Project Name (20 Char. or less)
Harding ESE	44897/05111486	Garham

Contact Person	Address
Mark Salvetti	107 Audubon Rd ste 301 ~~Beverly MA 01915~~

City	State	Zip	PO#
Wakefield	MA	01880	

Telephone #	Fax #	Email Address
		mjsalvetti@metc.com

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Number of Containers	Type of Containers	Analysis Required: TPH 8100M	Copper 6010B
11 ⚲	9/13/01	1535		X	So	GMSS001002015	1	G	X	
12 ⚲	9/13/01	1540		X	So	GMSS00100201W	1	G	X	

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: S-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: X Yes ___ No
Seals Intact: ___ Yes ___ No NA: _____
Cooler Temp: _____

Internal Use Only
[ ] Pickup
[ ] Technicians _____

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	9/13/01 1625	[signature]	9-13-01 1615				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

ESS Laboratory

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CERTIFICATE OF ANALYSIS

PROJECT NARRATIVE
Page One of Two

Cris Ricardi
MACTEC Engineering & Consulting, Inc.
32 Daniel Webster Highway Ste 25
Merrimack, NH 03054

RE: Providence Gorham Site
ESS Laboratory Work Order Number: 0606078

This signed Certificate of Analysis is our approved release of your analytical results. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

Date: July 24, 2006

Sample Receipt
16 Soil samples and 2 Trip Blanks were received on June 05, 2006 for the analyses specified on the enclosed Chain of Custody Record. High Level Trip Blank was not analyzed.

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC, except where noted within this project narrative.

Metals Analysis
ESS Laboratory utilized the established linear dynamic range to determine acceptable analytical results.
The batch Matrix Spike was outside of the recommended range for Barium, Copper, Silver, Thallium and Zinc. These analytes were below the lower control limit.
The batch Matrix Spike was outside of the recommended range for Cadmium, Chromium and Lead. These analytes exceed the upper control limit.

Volatile Organics Analysis
Due to poor purging efficiency the following compounds are below the minimum Response Factor requirements of method 8260: Acetone, 2-Butanone, and 1,4-Dioxane.
Blank Spike was outside of the recommended range for Chloroethane. This analyte was below the lower control limit.
Internal standard recovery was outside of the recommended ranges for sample 0606078-17 due to matrix interferences.

Continued

PROJECT NARRATIVE
Page Two of Two

Cris Ricardi
MACTEC Engineering & Consulting, Inc.
32 Daniel Webster Highway Ste 25
Merrimack, NH 03054

RE: Providence Gorham Site
ESS Laboratory Work Order Number: 0606078

Pesticides Analysis
Blank Spike was outside of the recommended range for Hexachlorobenzene. This analyte was below the lower control limit.
The Relative Percent Difference for the Blank Spike/Blank Spike Duplicate was outside of the recommended range for 4,4'-DDT and Methoxychlor.
The batch Matrix Spike/Matrix Spike Duplicate was outside of the recommended range for the majority of compounds due to matrix interferences.
The Relative Percent Difference for the Matrix Spike/Matrix Spike Duplicate was outside of the recommended range for the majority of compounds.
Surrogates were diluted outside of the calibration ranges for samples 0606078-04 and 0606078-05, and therefore could not be accurately quantitated.
Surrogate recoveries were outside of the recommended ranges for samples 0606078-08RE1 and 0606078-17RE1 due to matrix interferences.

Polychlorinated Biphenyls Analysis
The batch Matrix Spike/Matrix Spike Duplicate was outside of the recommended ranges for Aroclor 1260 due to matrix interferences. This analyte was below the lower control limit.

Polynuclear Aromatic Hydrocarbon Analysis
Surrogate recovery was outside of the recommended range for samples 0606078-05, 0606078-05MS, 0606078-05MSD and 0606078-08 due to matrix interferences.

SIMS Analysis
Surrogate recovery was outside of the recommended range for the Method Blank.
Surrogate recovery was outside of the recommended range for samples 0606078-07, 0606078-09 and 0606078-15 due to matrix interferences.

No other observations noted.

End of Project Narrative.

mdp

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Metals
Data Package

Metals
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI006
Date Sampled: 06/05/06 15:05
Percent Solids: 78

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-01
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte		Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony		ND	mg/kg dry	7.2	6010B	1	EEM	06/07/06	1.77	100
Arsenic		**3.3**	mg/kg dry	1.8	7060A	5	JP	06/12/06	1.77	100
Barium		**218**	mg/kg dry	3.6	6010B	1	EEM	06/07/06	1.77	100
Beryllium		**0.24**	mg/kg dry	0.07	6010B	1	EEM	06/07/06	1.77	100
Cadmium		**2.21**	mg/kg dry	0.72	6010B	1	EEM	06/07/06	1.77	100
Chromium		**140**	mg/kg dry	1.4	6010B	1	EEM	06/07/06	1.77	100
Copper	E	**3970**	mg/kg dry	1.4	6010B	1	EEM	06/07/06	1.77	100
Lead		**561**	mg/kg dry	7.2	6010B	1	EEM	06/07/06	1.77	100
Mercury		**0.795**	mg/kg dry	0.043	7471A	1	EEM	06/08/06	0.6	40
Nickel		**38.2**	mg/kg dry	3.6	6010B	1	EEM	06/07/06	1.77	100
Selenium		ND	mg/kg dry	7.2	6010B	1	EEM	06/07/06	1.77	100
Silver	E	**130**	mg/kg dry	0.72	6010B	1	EEM	06/07/06	1.77	100
Thallium		ND	mg/kg dry	1.8	7841	5	SVD	06/10/06	1.77	100
Zinc	E	**2100**	mg/kg dry	3.6	6010B	1	EEM	06/07/06	1.77	100

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JUL 24 2006

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI006
Date Sampled: 06/05/06 15:05
Percent Solids: 78

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-01RE1
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Copper	4180	mg/kg dry	7.2	6010B	5	JP	06/07/06	1.77	100
Silver	137	mg/kg dry	3.62	6010B	5	JP	06/07/06	1.77	100
Zinc	2650	mg/kg dry	18.1	6010B	5	JP	06/07/06	1.77	100

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI005
Date Sampled: 06/05/06 15:30
Percent Solids: 53

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-02
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	10.0	6010B	1	EEM	06/07/06	1.89	100
Arsenic	**3.3**	mg/kg dry	2.5	7060A	5	JP	06/08/06	1.89	100
Barium	**99.1**	mg/kg dry	5.0	6010B	1	EEM	06/07/06	1.89	100
Beryllium	**0.25**	mg/kg dry	0.10	6010B	1	EEM	06/07/06	1.89	100
Cadmium	**2.42**	mg/kg dry	1.00	6010B	1	EEM	06/07/06	1.89	100
Chromium	**147**	mg/kg dry	2.0	6010B	1	EEM	06/07/06	1.89	100
Copper	**2030**	mg/kg dry	2.0	6010B	1	JP	06/07/06	1.89	100
Lead	**470**	mg/kg dry	10.0	6010B	1	EEM	06/07/06	1.89	100
Mercury	**0.279**	mg/kg dry	0.058	7471A	1	EEM	06/08/06	0.65	40
Nickel	**82.5**	mg/kg dry	5.0	6010B	1	EEM	06/07/06	1.89	100
Selenium	ND	mg/kg dry	10.0	6010B	1	EEM	06/07/06	1.89	100
Silver	**42.1**	mg/kg dry	1.00	6010B	1	JP	06/07/06	1.89	100
Thallium	ND	mg/kg dry	2.5	7841	5	SVD	06/10/06	1.89	100
Zinc	**784**	mg/kg dry	5.0	6010B	1	EEM	06/07/06	1.89	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI004
Date Sampled: 06/05/06 15:50
Percent Solids: 82

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-03
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.7	6010B	1	EEM	06/07/06	1.82	100
Arsenic	**5.1**	mg/kg dry	1.7	7060A	5	JP	06/08/06	1.82	100
Barium	**12.6**	mg/kg dry	3.3	6010B	1	EEM	06/07/06	1.82	100
Beryllium	**0.19**	mg/kg dry	0.07	6010B	1	EEM	06/07/06	1.82	100
Cadmium	ND	mg/kg dry	0.67	6010B	1	EEM	06/07/06	1.82	100
Chromium	**6.1**	mg/kg dry	1.3	6010B	1	EEM	06/07/06	1.82	100
Copper	**130**	mg/kg dry	1.3	6010B	1	JP	06/07/06	1.82	100
Lead	**74.7**	mg/kg dry	6.7	6010B	1	EEM	06/07/06	1.82	100
Mercury	**0.145**	mg/kg dry	0.039	7471A	1	EEM	06/08/06	0.62	40
Nickel	**4.6**	mg/kg dry	3.3	6010B	1	EEM	06/07/06	1.82	100
Selenium	ND	mg/kg dry	6.7	6010B	1	EEM	06/07/06	1.82	100
Silver	**11.2**	mg/kg dry	0.67	6010B	1	JP	06/07/06	1.82	100
Thallium	ND	mg/kg dry	1.7	7841	5	SVD	06/10/06	1.82	100
Zinc	**19.9**	mg/kg dry	3.3	6010B	1	EEM	06/07/06	1.82	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008
Date Sampled: 06/06/06 14:52
Percent Solids: 65

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-04
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte		Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony		32.1	mg/kg dry	8.6	6010B	1	EEM	06/07/06	1.78	100
Arsenic		17.6	mg/kg dry	2.2	7060A	5	JP	06/08/06	1.78	100
Barium		93.3	mg/kg dry	4.3	6010B	1	EEM	06/07/06	1.78	100
Beryllium		0.77	mg/kg dry	0.09	6010B	1	EEM	06/07/06	1.78	100
Cadmium		21.7	mg/kg dry	0.86	6010B	1	EEM	06/07/06	1.78	100
Chromium		746	mg/kg dry	1.7	6010B	1	EEM	06/07/06	1.78	100
Copper	E	13200	mg/kg dry	1.7	6010B	1	EEM	06/07/06	1.78	100
Lead	E	3200	mg/kg dry	8.6	6010B	1	EEM	06/07/06	1.78	100
Mercury	E	2.65	mg/kg dry	0.050	7471A	1	EEM	06/08/06	0.61	40
Nickel		76.6	mg/kg dry	4.3	6010B	1	EEM	06/07/06	1.78	100
Selenium		ND	mg/kg dry	8.6	6010B	1	EEM	06/07/06	1.78	100
Silver	E	361	mg/kg dry	0.86	6010B	1	EEM	06/07/06	1.78	100
Thallium		ND	mg/kg dry	2.2	7841	5	SVD	06/10/06	1.78	100
Zinc		1470	mg/kg dry	4.3	6010B	1	EEM	06/07/06	1.78	100

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JUL 24 2006

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008
Date Sampled: 06/06/06 14:52
Percent Solids: 65

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-04RE1
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Copper	**14100**	mg/kg dry	34.5	6010B	20	JP	06/07/06	1.78	100
Lead	**3350**	mg/kg dry	173	6010B	20	JP	06/07/06	1.78	100
Mercury	**2.89**	mg/kg dry	0.504	7471A	10	EEM	06/08/06	0.61	40
Silver	**379**	mg/kg dry	17.3	6010B	20	JP	06/07/06	1.78	100

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008 DUP
Date Sampled: 06/06/06 14:52
Percent Solids: 63

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-05
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte		Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony		32.0	mg/kg dry	8.9	6010B	1	EEM	06/07/06	1.79	100
Arsenic		17.3	mg/kg dry	2.2	7060A	5	JP	06/08/06	1.79	100
Barium		83.1	mg/kg dry	4.4	6010B	1	ICP	06/07/06	1.79	100
Beryllium		0.79	mg/kg dry	0.09	6010B	1	EEM	06/07/06	1.79	100
Cadmium		25.3	mg/kg dry	0.89	6010B	1	EEM	06/07/06	1.79	100
Chromium		940	mg/kg dry	1.8	6010B	1	EEM	06/07/06	1.79	100
Copper	E	13800	mg/kg dry	1.8	6010B	1	EEM	06/07/06	1.79	100
Lead	E	3510	mg/kg dry	8.9	6010B	1	EEM	06/07/06	1.79	100
Mercury	E	1.36	mg/kg dry	0.052	7471A	1	EEM	06/08/06	0.61	40
Nickel		65.9	mg/kg dry	4.4	6010B	1	EEM	06/07/06	1.79	100
Selenium		ND	mg/kg dry	8.9	6010B	1	EEM	06/07/06	1.79	100
Silver	E	344	mg/kg dry	0.89	6010B	1	EEM	06/07/06	1.79	100
Thallium		ND	mg/kg dry	2.2	7841	5	SVD	06/10/06	1.79	100
Zinc		1430	mg/kg dry	4.4	6010B	1	EEM	06/07/06	1.79	100

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JUL 24 2006

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008 DUP
Date Sampled: 06/06/06 14:52
Percent Solids: 63

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-05RE1
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Copper	**15000**	mg/kg dry	35.4	6010B	20	JP	06/07/06	1.79	100
Lead	**3660**	mg/kg dry	177	6010B	20	JP	06/07/06	1.79	100
Mercury	**1.43**	mg/kg dry	0.260	7471A	5	EEM	06/08/06	0.61	40
Silver	**445**	mg/kg dry	17.7	6010B	20	JP	06/07/06	1.79	100

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI010
Date Sampled: 06/06/06 08:31
Percent Solids: 88

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-08
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte		Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony		ND	mg/kg dry	6.4	6010B	1	EEM	06/07/06	1.79	100
Arsenic		**4.5**	mg/kg dry	1.6	7060A	5	JP	06/08/06	1.79	100
Barium		**33.0**	mg/kg dry	3.2	6010B	1	EEM	06/07/06	1.79	100
Beryllium		**0.24**	mg/kg dry	0.06	6010B	1	EEM	06/07/06	1.79	100
Cadmium		ND	mg/kg dry	0.64	6010B	1	EEM	06/07/06	1.79	100
Chromium		**126**	mg/kg dry	1.3	6010B	1	EEM	06/07/06	1.79	100
Copper	E	**2260**	mg/kg dry	1.3	6010B	1	EEM	06/07/06	1.79	100
Lead		**273**	mg/kg dry	6.4	6010B	1	EEM	06/07/06	1.79	100
Mercury		**0.358**	mg/kg dry	0.035	7471A	1	EEM	06/08/06	0.64	40
Nickel		**35.0**	mg/kg dry	3.2	6010B	1	EEM	06/07/06	1.79	100
Selenium		ND	mg/kg dry	6.4	6010B	1	EEM	06/07/06	1.79	100
Silver	E	**112**	mg/kg dry	0.64	6010B	1	EEM	06/07/06	1.79	100
Thallium		ND	mg/kg dry	1.6	7841	5	SVD	06/10/06	1.79	100
Zinc		**415**	mg/kg dry	3.2	6010B	1	EEM	06/07/06	1.79	100

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI010
Date Sampled: 06/06/06 08:31
Percent Solids: 88

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-08RE1
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Copper	**2320**	mg/kg dry	6.3	6010B	5	JP	06/07/06	1.79	100
Silver	**128**	mg/kg dry	3.18	6010B	5	JP	06/07/06	1.79	100

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI003
Date Sampled: 06/06/06 09:16
Percent Solids: 88

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-09
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.3	6010B	1	EEM	06/07/06	1.81	100
Arsenic	**3.2**	mg/kg dry	1.6	7060A	5	JP	06/08/06	1.81	100
Barium	**11.5**	mg/kg dry	3.1	6010B	1	EEM	06/07/06	1.81	100
Beryllium	**0.16**	mg/kg dry	0.06	6010B	1	EEM	06/07/06	1.81	100
Cadmium	ND	mg/kg dry	0.63	6010B	1	EEM	06/07/06	1.81	100
Chromium	**6.3**	mg/kg dry	1.3	6010B	1	EEM	06/07/06	1.81	100
Copper	**73.5**	mg/kg dry	1.3	6010B	1	JP	06/07/06	1.81	100
Lead	**85.9**	mg/kg dry	6.3	6010B	1	EEM	06/07/06	1.81	100
Mercury	**0.108**	mg/kg dry	0.037	7471A	1	EEM	06/08/06	0.62	40
Nickel	**6.0**	mg/kg dry	3.1	6010B	1	EEM	06/07/06	1.81	100
Selenium	ND	mg/kg dry	6.3	6010B	1	EEM	06/07/06	1.81	100
Silver	**9.28**	mg/kg dry	0.63	6010B	1	JP	06/07/06	1.81	100
Thallium	ND	mg/kg dry	1.6	7841	5	SVD	06/10/06	1.81	100
Zinc	**18.1**	mg/kg dry	3.1	6010B	1	EEM	06/07/06	1.81	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI011
Date Sampled: 06/06/06 08:11
Percent Solids: 76

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-10
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte		Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony		ND	mg/kg dry	7.5	6010B	1	EEM	06/07/06	1.76	100
Arsenic		**5.4**	mg/kg dry	1.9	7060A	5	JP	06/08/06	1.76	100
Barium		**53.4**	mg/kg dry	3.7	6010B	1	EEM	06/07/06	1.76	100
Beryllium		**0.25**	mg/kg dry	0.08	6010B	1	EEM	06/07/06	1.76	100
Cadmium		**1.84**	mg/kg dry	0.75	6010B	1	EEM	06/07/06	1.76	100
Chromium		**110**	mg/kg dry	1.5	6010B	1	EEM	06/07/06	1.76	100
Copper	E	**5250**	mg/kg dry	1.5	6010B	1	EEM	06/07/06	1.76	100
Lead		**562**	mg/kg dry	7.5	6010B	1	EEM	06/07/06	1.76	100
Mercury	E	**0.975**	mg/kg dry	0.042	7471A	1	EEM	06/08/06	0.63	40
Nickel		**51.5**	mg/kg dry	3.7	6010B	1	EEM	06/07/06	1.76	100
Selenium		ND	mg/kg dry	7.5	6010B	1	EEM	06/07/06	1.76	100
Silver	E	**68.1**	mg/kg dry	0.75	6010B	1	EEM	06/07/06	1.76	100
Thallium		ND	mg/kg dry	1.9	7841	5	SVD	06/10/06	1.76	100
Zinc		**1200**	mg/kg dry	3.7	6010B	1	EEM	06/07/06	1.76	100

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI011
Date Sampled: 06/06/06 08:11
Percent Solids: 76

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-10RE1
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Copper	5290	mg/kg dry	14.9	6010B	10	JP	06/07/06	1.76	100
Mercury	1.02	mg/kg dry	0.209	7471A	5	EEM	06/08/06	0.63	40
Silver	67.5	mg/kg dry	7.48	6010B	10	JP	06/07/06	1.76	100

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI007
Date Sampled: 06/06/06 16:23
Percent Solids: 58

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-17
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte		Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony		ND	mg/kg dry	9.7	6010B	1	EEM	06/07/06	1.77	100
Arsenic		ND	mg/kg dry	2.4	7060A	5	JP	06/08/06	1.77	100
Barium		**386**	mg/kg dry	4.9	6010B	1	EEM	06/07/06	1.77	100
Beryllium		**0.32**	mg/kg dry	0.10	6010B	1	EEM	06/07/06	1.77	100
Cadmium		**6.84**	mg/kg dry	0.97	6010B	1	EEM	06/07/06	1.77	100
Chromium		**61.4**	mg/kg dry	1.9	6010B	1	EEM	06/07/06	1.77	100
Copper	E	**1220**	mg/kg dry	1.9	6010B	1	EEM	06/07/06	1.77	100
Lead		**1710**	mg/kg dry	9.7	6010B	1	EEM	06/07/06	1.77	100
Mercury	E	**4.16**	mg/kg dry	0.056	7471A	1	EEM	06/08/06	0.61	40
Nickel		**84.4**	mg/kg dry	4.9	6010B	1	EEM	06/07/06	1.77	100
Selenium		ND	mg/kg dry	9.7	6010B	1	EEM	06/07/06	1.77	100
Silver	E	**349**	mg/kg dry	0.97	6010B	1	EEM	06/07/06	1.77	100
Thallium		ND	mg/kg dry	2.4	7841	5	SVD	06/10/06	1.77	100
Zinc		**1390**	mg/kg dry	4.9	6010B	1	EEM	06/07/06	1.77	100

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI007
Date Sampled: 06/06/06 16:23
Percent Solids: 58

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-17RE1
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Copper	**1090**	mg/kg dry	19.4	6010B	10	JP	06/07/06	1.77	100
Mercury	**4.67**	mg/kg dry	0.565	7471A	10	EEM	06/08/06	0.61	40
Silver	**385**	mg/kg dry	9.75	6010B	10	JP	06/07/06	1.77	100

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Metals
Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BF60721 - 3050B										
Blank										
Antimony	ND	6.7	mg/kg wet							
Arsenic	ND	0.3	mg/kg wet							
Barium	ND	3.3	mg/kg wet							
Beryllium	ND	0.07	mg/kg wet							
Cadmium	ND	0.67	mg/kg wet							
Chromium	ND	1.3	mg/kg wet							
Copper	ND	1.3	mg/kg wet							
Lead	ND	6.7	mg/kg wet							
Nickel	ND	3.3	mg/kg wet							
Selenium	ND	6.7	mg/kg wet							
Silver	ND	0.67	mg/kg wet							
Thallium	ND	0.3	mg/kg wet							
Zinc	ND	3.3	mg/kg wet							
LCS										
Antimony	32.8	6.7	mg/kg wet	33.3		98	80-120			
Arsenic	34.8	6.7	mg/kg wet	33.3		105	80-120			
Barium	34.0	3.3	mg/kg wet	33.3		102	80-120			
Beryllium	3.44	0.07	mg/kg wet	3.33		103	80-120			
Cadmium	16.7	0.67	mg/kg wet	16.7		100	80-120			
Chromium	34.9	1.3	mg/kg wet	33.3		105	80-120			
Copper	34.4	1.3	mg/kg wet	33.3		103	80-120			
Lead	34.1	6.7	mg/kg wet	33.3		102	80-120			
Nickel	34.6	3.3	mg/kg wet	33.3		104	80-120			
Selenium	64.2	6.7	mg/kg wet	66.7		96	80-120			
Silver	16.7	0.67	mg/kg wet	16.7		100	80-120			
Thallium	32.2	6.7	mg/kg wet	33.3		97	80-120			
Zinc	33.3	3.3	mg/kg wet	33.3		100	80-120			
LCS Dup										
Antimony	32.3	6.7	mg/kg wet	33.3		97	80-120	1	20	
Arsenic	35.7	6.7	mg/kg wet	33.3		107	80-120	3	20	
Barium	33.5	3.3	mg/kg wet	33.3		101	80-120	1	20	
Beryllium	3.36	0.07	mg/kg wet	3.33		101	80-120	2	20	
Cadmium	16.5	0.67	mg/kg wet	16.7		99	80-120	1	20	
Chromium	34.2	1.3	mg/kg wet	33.3		103	80-120	2	20	
Copper	34.2	1.3	mg/kg wet	33.3		103	80-120	0	20	
Lead	33.4	6.7	mg/kg wet	33.3		100	80-120	2	20	
Nickel	34.0	3.3	mg/kg wet	33.3		102	80-120	2	20	
Selenium	62.9	6.7	mg/kg wet	66.7		94	80-120	2	20	
Silver	16.4	0.67	mg/kg wet	16.7		98	80-120	2	20	
Thallium	32.4	6.7	mg/kg wet	33.3		97	80-120	0	20	
Zinc	32.8	3.3	mg/kg wet	33.3		98	80-120	2	20	
Duplicate **Source: 0606078-05**										
Antimony	31.2	9.1	mg/kg dry		32.0			3	35	
Arsenic	15.8	2.3	mg/kg dry		17.3			9	35	
Barium	93.2	4.5	mg/kg dry		83.1			11	35	

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BF60721 - 3050B										
Beryllium	0.680	0.09	mg/kg dry		0.79			15	35	
Cadmium	23.5	0.91	mg/kg dry		25.3			7	35	
Chromium	927	1.8	mg/kg dry		940			1	35	
Copper	14100	36.2	mg/kg dry		15000			6	35	
Lead	3560	181	mg/kg dry		3660			3	35	
Nickel	92.1	4.5	mg/kg dry		65.9			33	35	
Selenium	4.85	9.1	mg/kg dry		4.1			17	35	
Silver	367	18.1	mg/kg dry		445			19	35	
Thallium	ND	2.3	mg/kg dry		ND				35	
Zinc	1380	4.5	mg/kg dry		1430			4	35	
Matrix Spike **Source: 0606078-05**										
Antimony	70.7	8.8	mg/kg dry	43.8	32.0	88	75-125			
Arsenic	53.5	8.8	mg/kg dry	43.8	17.3	83	75-125			
Barium	106	4.4	mg/kg dry	43.8	83.1	52	75-125			+
Beryllium	4.73	0.09	mg/kg dry	4.38	0.79	90	75-125			
Cadmium	56.5	0.88	mg/kg dry	21.9	25.3	142	75-125			+
Chromium	1120	1.7	mg/kg dry	43.8	940	411	75-125			+
Copper	15500	35.0	mg/kg dry	43.8	15000	NR	75-125			+
Lead	3960	175	mg/kg dry	43.8	3660	685	75-125			+
Nickel	112	4.4	mg/kg dry	43.8	65.9	105	75-125			
Selenium	80.9	8.8	mg/kg dry	87.7	4.1	88	75-125			
Silver	359	17.5	mg/kg dry	21.9	445	NR	75-125			+
Thallium	32.0	8.8	mg/kg dry	43.8	ND	73	75-125			+
Zinc	1320	4.4	mg/kg dry	43.8	1430	NR	75-125			+
Reference										
Antimony	73.2	10.0	mg/kg wet	86.2		85	0-222.74			
Arsenic	148	25.0	mg/kg wet	146		101	79.45-120.55			
Barium	313	5.0	mg/kg wet	351		89	82.05-117.95			
Beryllium	57.6	0.10	mg/kg wet	62.2		93	81.99-118.01			
Cadmium	81.6	1.00	mg/kg wet	91.9		89	81.5-118.61			
Chromium	159	2.0	mg/kg wet	176		90	78.41-121.59			
Copper	64.6	2.0	mg/kg wet	70.0		92	82.14-118			
Lead	61.5	10.0	mg/kg wet	68.1		90	80.62-119.38			
Nickel	77.0	5.0	mg/kg wet	84.0		92	81.55-118.45			
Selenium	65.0	10.0	mg/kg wet	73.0		89	75.48-124.38			
Silver	84.2	1.00	mg/kg wet	93.0		91	61.29-138.71			
Thallium	72.7	25.0	mg/kg wet	77.8		93	75.58-124.42			
Zinc	349	5.0	mg/kg wet	402		87	79.35-120.65			
Batch BF60722 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	0.207	0.033	mg/kg wet	0.200		104	80-120			
LCS Dup										
Mercury	0.207	0.033	mg/kg wet	0.200		104	80-120	0	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BF60722 - 7471A										
Duplicate **Source: 0606078-05**										
Mercury	1.87	0.252	mg/kg dry		1.43			27	35	
Matrix Spike **Source: 0606078-05**										
Mercury	1.75	0.256	mg/kg dry	0.307	1.43	104	75-125			
Matrix Spike Dup **Source: 0606078-05**										
Mercury	2.92	0.223	mg/kg dry	0.268	1.43	556	75-125	137	35	
Reference										
Mercury	1.71	0.333	mg/kg wet	1.77		97	68.36-132.2			
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60729 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethene	ND	5.0	ug/Kg wet							
1,1-Dichloropropene	ND	5.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	5.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg wet							
1,2-Dibromoethane	ND	5.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,2-Dichloroethane	ND	5.0	ug/Kg wet							
1,2-Dichloropropane	ND	5.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,3-Dichloropropane	ND	5.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	250	ug/Kg wet							
1-Chlorohexane	ND	5.0	ug/Kg wet							
2,2-Dichloropropane	ND	5.0	ug/Kg wet							
2-Butanone	ND	50.0	ug/Kg wet							
2-Chlorotoluene	ND	5.0	ug/Kg wet							
2-Hexanone	ND	50.0	ug/Kg wet							
4-Chlorotoluene	ND	5.0	ug/Kg wet							
4-Isopropyltoluene	ND	5.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	50.0	ug/Kg wet							
Acetone	ND	50.0	ug/Kg wet							
Benzene	ND	5.0	ug/Kg wet							
Bromobenzene	ND	5.0	ug/Kg wet							
Bromochloromethane	ND	5.0	ug/Kg wet							
Bromodichloromethane	ND	5.0	ug/Kg wet							

Metals
Calibration Data

ANALYSIS SEQUENCE

BPG0160

Instrument: ICP2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0160-CAL1	QC		1		6F05068		
BPG0160-CAL2	QC		2		6F07005		
BPG0160-CAL3	QC		3		6F07006		
BPG0160-CAL4	QC		4		6F07007		
BPG0160-ICV1	QC		5		6F07006		
BPG0160-SCV1	QC		6		6F07010		
BPG0160-ICB1	QC		7				
BPG0160-CRL1	QC		8		6F07011		
BPG0160-CRL2	QC		9		6F07012		
BPG0160-CRL3	QC		10		6F07013		
BPG0160-IFA1	QC		11		6E30072		
BPG0160-CCB1	QC		12				
BPG0160-CCV1	QC		13		6F07006		
BPG0160-IFB1	QC		14		6E30073		
BF60721-BLK1	QC		15				
BF60721-BS1	QC		16				
BF60721-BSD1	QC		17				
BF60721-SRM1	QC		18				
BF60721-DUP1	QC		19				
BF60721-MS1	QC		20				
BF60721-PS1	QC		21				
0606078-01	Ba: ppm Barium 6010	F	22				MACTEC Engineering & Consulting, In
0606078-01	Sb: ppm Antimony 6010	F	23				MACTEC Engineering & Consulting, In
0606078-01	Be: ppm Beryllium 6010	F	24				MACTEC Engineering & Consulting, In
0606078-01	Cd: ppm Cadmium 6010	F	25				MACTEC Engineering & Consulting, In
0606078-01	Cr: ppm Chromium 6010	F	26				MACTEC Engineering & Consulting, In
0606078-01	Cu: ppm Copper 6010	F	27				MACTEC Engineering & Consulting, In
0606078-01	Pb: ppm Lead 6010	F	28				MACTEC Engineering & Consulting, In
0606078-01	Ni: ppm Nickel 6010	F	29				MACTEC Engineering & Consulting, In
0606078-01	Se: ppm Selenium 6010	F	30				MACTEC Engineering & Consulting, In
0606078-01	Ag: ppm Silver 6010	F	31				MACTEC Engineering & Consulting, In
0606078-01	Zn: ppm Zinc 6010	F	32				MACTEC Engineering & Consulting, In
0606078-02	Sb: ppm Antimony 6010	F	33				MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

BPG0160

Instrument: ICP2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606078-02	Be: ppm Beryllium 6010	F	34				MACTEC Engineering & Consulting, In
0606078-02	Cd: ppm Cadmium 6010	F	35				MACTEC Engineering & Consulting, In
0606078-02	Ba: ppm Barium 6010	F	36				MACTEC Engineering & Consulting, In
0606078-02	Cr: ppm Chromium 6010	F	37				MACTEC Engineering & Consulting, In
0606078-02	Pb: ppm Lead 6010	F	38				MACTEC Engineering & Consulting, In
0606078-02	Ni: ppm Nickel 6010	F	39				MACTEC Engineering & Consulting, In
0606078-02	Se: ppm Selenium 6010	F	40				MACTEC Engineering & Consulting, In
0606078-02	Zn: ppm Zinc 6010	F	41				MACTEC Engineering & Consulting, In
BPG0160-CCB2	QC		42				
BPG0160-CCV2	QC		43		6F07006		
0606078-03	Sb: ppm Antimony 6010	F	44				MACTEC Engineering & Consulting, In
0606078-03	Be: ppm Beryllium 6010	F	45				MACTEC Engineering & Consulting, In
0606078-03	Cd: ppm Cadmium 6010	F	46				MACTEC Engineering & Consulting, In
0606078-03	Ba: ppm Barium 6010	F	47				MACTEC Engineering & Consulting, In
0606078-03	Cr: ppm Chromium 6010	F	48				MACTEC Engineering & Consulting, In
0606078-03	Pb: ppm Lead 6010	F	49				MACTEC Engineering & Consulting, In
0606078-03	Ni: ppm Nickel 6010	F	50				MACTEC Engineering & Consulting, In
0606078-03	Se: ppm Selenium 6010	F	51				MACTEC Engineering & Consulting, In
0606078-03	Zn: ppm Zinc 6010	F	52				MACTEC Engineering & Consulting, In
0606078-04	Sb: ppm Antimony 6010	F	53				MACTEC Engineering & Consulting, In
0606078-04	Be: ppm Beryllium 6010	F	54				MACTEC Engineering & Consulting, In
0606078-04	Cd: ppm Cadmium 6010	F	55				MACTEC Engineering & Consulting, In
0606078-04	Ba: ppm Barium 6010	F	56				MACTEC Engineering & Consulting, In
0606078-04	Cr: ppm Chromium 6010	F	57				MACTEC Engineering & Consulting, In
0606078-04	Cu: ppm Copper 6010	F	58				MACTEC Engineering & Consulting, In
0606078-04	Pb: ppm Lead 6010	F	59				MACTEC Engineering & Consulting, In
0606078-04	Ni: ppm Nickel 6010	F	60				MACTEC Engineering & Consulting, In
0606078-04	Se: ppm Selenium 6010	F	61				MACTEC Engineering & Consulting, In
0606078-04	Ag: ppm Silver 6010	F	62				MACTEC Engineering & Consulting, In
0606078-04	Zn: ppm Zinc 6010	F	63				MACTEC Engineering & Consulting, In
0606078-05	Sb: ppm Antimony 6010	F	64				MACTEC Engineering & Consulting, In
0606078-05	Be: ppm Beryllium 6010	F	65				MACTEC Engineering & Consulting, In
0606078-05	Cd: ppm Cadmium 6010	F	66				MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

BPG0160

Instrument: ICP2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606078-05	Ba: ppm Barium 6010	F	67				MACTEC Engineering & Consulting, In
0606078-05	Cr: ppm Chromium 6010	F	68				MACTEC Engineering & Consulting, In
0606078-05	Cu: ppm Copper 6010	F	69				MACTEC Engineering & Consulting, In
0606078-05	Pb: ppm Lead 6010	F	70				MACTEC Engineering & Consulting, In
0606078-05	Ni: ppm Nickel 6010	F	71				MACTEC Engineering & Consulting, In
0606078-05	Se: ppm Selenium 6010	F	72				MACTEC Engineering & Consulting, In
0606078-05	Ag: ppm Silver 6010	F	73				MACTEC Engineering & Consulting, In
0606078-05	Zn: ppm Zinc 6010	F	74				MACTEC Engineering & Consulting, In
0606078-05	Al: ppm Aluminum 6010	A	75				MACTEC Engineering & Consulting, In
0606078-05	Fe: ppm Iron 6010	A	76				MACTEC Engineering & Consulting, In
0606078-05	Mg: ppm Magnesium 6010	A	77				MACTEC Engineering & Consulting, In
0606078-05	Ca: ppm Calcium 6010	A	78				MACTEC Engineering & Consulting, In
0606078-08	Sb: ppm Antimony 6010	F	79				MACTEC Engineering & Consulting, In
0606078-08	Be: ppm Beryllium 6010	F	80				MACTEC Engineering & Consulting, In
0606078-08	Cd: ppm Cadmium 6010	F	81				MACTEC Engineering & Consulting, In
0606078-08	Ba: ppm Barium 6010	F	82				MACTEC Engineering & Consulting, In
0606078-08	Cr: ppm Chromium 6010	F	83				MACTEC Engineering & Consulting, In
0606078-08	Cu: ppm Copper 6010	F	84				MACTEC Engineering & Consulting, In
0606078-08	Pb: ppm Lead 6010	F	85				MACTEC Engineering & Consulting, In
0606078-08	Ni: ppm Nickel 6010	F	86				MACTEC Engineering & Consulting, In
0606078-08	Se: ppm Selenium 6010	F	87				MACTEC Engineering & Consulting, In
0606078-08	Ag: ppm Silver 6010	F	88				MACTEC Engineering & Consulting, In
0606078-08	Zn: ppm Zinc 6010	F	89				MACTEC Engineering & Consulting, In
0606078-09	Sb: ppm Antimony 6010	F	90				MACTEC Engineering & Consulting, In
0606078-09	Be: ppm Beryllium 6010	F	91				MACTEC Engineering & Consulting, In
0606078-09	Cd: ppm Cadmium 6010	F	92				MACTEC Engineering & Consulting, In
0606078-09	Ba: ppm Barium 6010	F	93				MACTEC Engineering & Consulting, In
0606078-09	Cr: ppm Chromium 6010	F	94				MACTEC Engineering & Consulting, In
0606078-09	Pb: ppm Lead 6010	F	95				MACTEC Engineering & Consulting, In
0606078-09	Ni: ppm Nickel 6010	F	96				MACTEC Engineering & Consulting, In
0606078-09	Se: ppm Selenium 6010	F	97				MACTEC Engineering & Consulting, In
0606078-09	Zn: ppm Zinc 6010	F	98				MACTEC Engineering & Consulting, In
0606078-10	Sb: ppm Antimony 6010	F	99				MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

BPG0160

Instrument: ICP2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606078-10	Be: ppm Beryllium 6010	F	100				MACTEC Engineering & Consulting, In
0606078-10	Cd: ppm Cadmium 6010	F	101				MACTEC Engineering & Consulting, In
0606078-10	Ba: ppm Barium 6010	F	102				MACTEC Engineering & Consulting, In
0606078-10	Cr: ppm Chromium 6010	F	103				MACTEC Engineering & Consulting, In
0606078-10	Cu: ppm Copper 6010	F	104				MACTEC Engineering & Consulting, In
0606078-10	Pb: ppm Lead 6010	F	105				MACTEC Engineering & Consulting, In
0606078-10	Ni: ppm Nickel 6010	F	106				MACTEC Engineering & Consulting, In
0606078-10	Se: ppm Selenium 6010	F	107				MACTEC Engineering & Consulting, In
0606078-10	Ag: ppm Silver 6010	F	108				MACTEC Engineering & Consulting, In
0606078-10	Zn: ppm Zinc 6010	F	109				MACTEC Engineering & Consulting, In
0606078-17	Sb: ppm Antimony 6010	F	110				MACTEC Engineering & Consulting, In
0606078-17	Be: ppm Beryllium 6010	F	111				MACTEC Engineering & Consulting, In
0606078-17	Cd: ppm Cadmium 6010	F	112				MACTEC Engineering & Consulting, In
0606078-17	Ba: ppm Barium 6010	F	113				MACTEC Engineering & Consulting, In
0606078-17	Cr: ppm Chromium 6010	F	114				MACTEC Engineering & Consulting, In
0606078-17	Cu: ppm Copper 6010	F	115				MACTEC Engineering & Consulting, In
0606078-17	Pb: ppm Lead 6010	F	116				MACTEC Engineering & Consulting, In
0606078-17	Ni: ppm Nickel 6010	F	117				MACTEC Engineering & Consulting, In
0606078-17	Se: ppm Selenium 6010	F	118				MACTEC Engineering & Consulting, In
0606078-17	Ag: ppm Silver 6010	F	119				MACTEC Engineering & Consulting, In
0606078-17	Zn: ppm Zinc 6010	F	120				MACTEC Engineering & Consulting, In
BPG0160-SRD1	QC		121				
BPG0160-CCB3	QC		122				
BPG0160-CCV3	QC		123		6F07006		
BPG0160-CCV4	QC		124		6F07006		
BPG0160-CCV5	QC		125		6F07006		
BPG0160-CCV6	QC		126		6F07006		
BPG0160-CCB4	QC		127				
BPG0160-CCB5	QC		128				
BPG0160-CCB6	QC		129				
BPG0160-IFA2	QC		130		6E30072		
BPG0160-IFB2	QC		131		6E30073		

Samples Loaded By Date

Data Processed By Date

Analytical Sequence

Method : everythingx

Seq.	Loc.		Sample ID
1	1		Calib Blank 1
2	2		Calib Std 1
3	3		Calib Std 2
4	4		Calib Std 3
5	3		STD2
6	5		ICV
7	1		ICCB
8	6		CRI1
9	7		CRI2
10	8		CRI3
11	106		ICSA
12	105		ICSAB
13	3		CCV
14	1		ICCB
15	9		0606090-01x5
16	10		0606092-01x20
17	11		0606092-01x10
18	12		0606093-01x20
19	13		BF60721-BLK1
20	14		BF60721-BS1
21	15	✓	BF60721-BSD1
22	16		BF60721-SRM1
23	17		0606078-01
24	18		0606078-02
25	3		CCV - Cu
26	1		ICCB - Cu
27	19		0606078-03
28	20		0606078-04
29	21		0606078-05
30	22	✓	BF60721-DUP1
31	23	✓	BF60721-MS1
32	24	✓	BF60721-MSD1
33	25	✓	BF60721-SD1
34	26	✓	BF62701-PDS1
35	27		0606078-08
36	28		0606078-09
37	3		CCV - Ag, Cu
38	1		ICCB - Ag, Cu
39	29		0606078-10
40	30		0606078-17
41	3		CCV - Ag, Cu
42	1		ICCB - Ag, Cu
43	106		ICSA
44	105		ICSAB
45	0		WASH

Ag	0.005
Ba	0.01
Be	0.001
Cd	0.005
Cr	0.01
Cu	0.01
Ni	0.01
Pb	0.01
Sb	0.01
Se	0.02
Zn	0.01

Analysis Begun

Start Time: 6/7/2006 12:41:25 PM
Logged In Analyst: ICP2
Spectrometer Model: Optima 3100 XL, S/N 069N8031701
Plasma On Time: 6/7/2006 9:54:20 AM
Technique: ICP Continuous
Autosampler Model: AS-90

Sample Information File: C:\pe\ICP2\Sample Information\060706XA.sif
Batch ID: 060706XA
Results Data Set: 060706XAD
Results Library: Q:\Metals\Results\Icp2\Results\Results.mdb

Method Loaded
Method Name: everythingx
IEC File: 011006.iec
Method Description: Everthing
Method Last Saved: 5/2/2006 10:55:31 AM
MSF File:

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 6/7/2006 12:41:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Blank 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Y 360.073	2592375.5	2592375.5			12:42:57
1	Ag 328.068†	-563.0	-561.3	[0.00]	mg/L	12:43:03
1	Al 237.313†	-294.7	-293.8	[0.00]	mg/L	12:43:23
1	As 188.979†	1.0	1.0	[0.00]	mg/L	12:43:23
1	B 182.528†	-32.7	-32.6	[0.00]	mg/L	12:43:23
1	Ba 233.527†	-255.7	-254.9	[0.00]	mg/L	12:43:23
1	Be 313.107†	4910.1	4894.9	[0.00]	mg/L	12:42:57
1	Ca 315.886†	4282.7	4269.5	[0.00]	mg/L	12:43:03
1	Cd 228.802†	380.6	379.4	[0.00]	mg/L	12:43:23
1	Co 228.616†	-476.9	-475.4	[0.00]	mg/L	12:43:23
1	Cr 267.716†	1585.4	1580.5	[0.00]	mg/L	12:43:03
1	Cu 324.752†	1459.1	1454.6	[0.00]	mg/L	12:43:03
1	Fe 238.204†	1536.2	1531.4	[0.00]	mg/L	12:43:23
1	Fe 234.349†	84.4	84.1	[0.00]	mg/L	12:43:23
1	Mg 279.077†	-24.5	-24.4	[0.00]	mg/L	12:43:03
1	Mn 257.610†	1163.0	1159.4	[0.00]	mg/L	12:43:03
1	Mo 202.031†	1.3	1.3	[0.00]	mg/L	12:43:23
1	Na 330.237†	2484.7	2477.0	[0.00]	mg/L	12:43:03
1	Ni 231.604†	461.6	460.2	[0.00]	mg/L	12:43:23
1	Pb 220.353†	-91.7	-91.4	[0.00]	mg/L	12:43:23
1	Sb 206.836†	83.5	83.2	[0.00]	mg/L	12:43:23
1	Se 196.026†	-3.8	-3.7	[0.00]	mg/L	12:43:23
1	Sn 189.927†	107.2	106.9	[0.00]	mg/L	12:43:23
1	Ti 337.279†	1204.8	1201.0	[0.00]	mg/L	12:43:03
1	Tl 190.801†	-11.0	-11.0	[0.00]	mg/L	12:43:23
1	V 292.402†	2120.9	2114.4	[0.00]	mg/L	12:43:03
1	Zn 213.857†	1057.7	1054.4	[0.00]	mg/L	12:43:23
2	Y 360.073	2576345.0	2576345.0			12:43:29
2	Ag 328.068†	-676.0	-678.1	[0.00]	mg/L	12:43:34
2	Al 237.313†	-319.2	-320.2	[0.00]	mg/L	12:43:54
2	As 188.979†	0.5	0.5	[0.00]	mg/L	12:43:54
2	B 182.528†	-30.6	-30.7	[0.00]	mg/L	12:43:54
2	Ba 233.527†	-249.6	-250.3	[0.00]	mg/L	12:43:54
2	Be 313.107†	4977.6	4993.1	[0.00]	mg/L	12:43:29
2	Ca 315.886†	4290.8	4304.2	[0.00]	mg/L	12:43:34
2	Cd 228.802†	392.4	393.6	[0.00]	mg/L	12:43:54
2	Co 228.616†	-466.9	-468.4	[0.00]	mg/L	12:43:54
2	Cr 267.716†	1667.5	1672.7	[0.00]	mg/L	12:43:34
2	Cu 324.752†	1406.7	1411.0	[0.00]	mg/L	12:43:34
2	Fe 238.204†	1477.2	1481.8	[0.00]	mg/L	12:43:54
2	Fe 234.349†	74.6	74.9	[0.00]	mg/L	12:43:54

2	Mg 279.077†	14.0	14.1	[0.00] mg/L	12:43:34
2	Mn 257.610†	1129.9	1133.4	[0.00] mg/L	12:43:34
2	Mo 202.031†	-4.2	-4.2	[0.00] mg/L	12:43:54
2	Na 330.237†	2518.4	2526.3	[0.00] mg/L	12:43:34
2	Ni 231.604†	462.1	463.5	[0.00] mg/L	12:43:54
2	Pb 220.353†	-99.3	-99.6	[0.00] mg/L	12:43:54
2	Sb 206.836†	86.7	87.0	[0.00] mg/L	12:43:54
2	Se 196.026†	-8.0	-8.0	[0.00] mg/L	12:43:54
2	Sn 189.927†	110.7	111.0	[0.00] mg/L	12:43:54
2	Ti 337.279†	1112.0	1115.5	[0.00] mg/L	12:43:34
2	Tl 190.801†	-11.4	-11.4	[0.00] mg/L	12:43:54
2	V 292.402†	2123.4	2130.0	[0.00] mg/L	12:43:34
2	Zn 213.857†	1067.7	1071.0	[0.00] mg/L	12:43:54

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
Y 360.073	2584360.3	11335.26	0.44%		
Ag 328.068†	-619.7	82.59	13.33%	[0.00]	mg/L
Al 237.313†	-307.0	18.65	6.08%	[0.00]	mg/L
As 188.979†	0.8	0.35	46.31%	[0.00]	mg/L
B 182.528†	-31.7	1.40	4.44%	[0.00]	mg/L
Ba 233.527†	-252.6	3.24	1.28%	[0.00]	mg/L
Be 313.107†	4944.0	69.43	1.40%	[0.00]	mg/L
Ca 315.886†	4286.8	24.51	0.57%	[0.00]	mg/L
Cd 228.802†	386.5	10.01	2.59%	[0.00]	mg/L
Co 228.616†	-471.9	4.99	1.06%	[0.00]	mg/L
Cr 267.716†	1626.6	65.17	4.01%	[0.00]	mg/L
Cu 324.752†	1432.8	30.80	2.15%	[0.00]	mg/L
Fe 238.204†	1506.6	35.09	2.33%	[0.00]	mg/L
Fe 234.349†	79.5	6.56	8.25%	[0.00]	mg/L
Mg 279.077†	-5.2	27.19	527.63%	[0.00]	mg/L
Mn 257.610†	1146.4	18.39	1.60%	[0.00]	mg/L
Mo 202.031†	-1.4	3.89	269.85%	[0.00]	mg/L
Na 330.237†	2501.6	34.85	1.39%	[0.00]	mg/L
Ni 231.604†	461.8	2.38	0.52%	[0.00]	mg/L
Pb 220.353†	-95.5	5.80	6.08%	[0.00]	mg/L
Sb 206.836†	85.1	2.65	3.12%	[0.00]	mg/L
Se 196.026†	-5.9	3.01	51.26%	[0.00]	mg/L
Sn 189.927†	108.9	2.91	2.67%	[0.00]	mg/L
Ti 337.279†	1158.3	60.50	5.22%	[0.00]	mg/L
Tl 190.801†	-11.2	0.28	2.52%	[0.00]	mg/L
V 292.402†	2122.2	11.07	0.52%	[0.00]	mg/L
Zn 213.857†	1062.7	11.76	1.11%	[0.00]	mg/L

Sequence No.: 2
Sample ID: Calib Std 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/7/2006 12:45:31 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Analysis Time
1	Y 360.073	2617981.7	2617981.7			12:47:03
1	Ag 328.068†	15404.1	15826.0	[0.0500]	mg/L	12:47:08
1	Al 237.313†	4158.3	4411.9	[0.5]	mg/L	12:47:08
1	As 188.979†	131.0	128.5	[0.1000]	mg/L	12:47:29
1	B 182.528†	102.1	132.4	[0.1000]	mg/L	12:47:29
1	Ba 233.527†	18272.7	18290.7	[0.1000]	mg/L	12:47:08
1	Be 313.107†	67925.9	62109.5	[0.0100]	mg/L	12:47:03
1	Ca 315.886†	158446.0	152124.3	[1.0000]	mg/L	12:47:03
1	Cd 228.802†	4467.7	4023.8	[0.0500]	mg/L	12:47:29
1	Co 228.616†	6705.7	7091.5	[0.1000]	mg/L	12:47:08
1	Cr 267.716†	16924.8	15080.9	[0.1000]	mg/L	12:47:08
1	Cu 324.752†	15828.5	14192.4	[0.1000]	mg/L	12:47:08
1	Fe 238.204†	67303.9	64932.9	[0.5]	mg/L	12:47:08
1	Fe 234.349†	20613.3	20269.1	[0.5]	mg/L	12:47:08

1	Mg 279.077†	22103.1	21824.4	[1.0000] mg/L	12:47:08
1	Mn 257.610†	105444.2	102943.7	[0.1000] mg/L	12:47:08
1	Mo 202.031†	1330.0	1314.3	[0.1000] mg/L	12:47:29
1	Na 330.237†	5057.3	2490.8	[5.0000] mg/L	12:47:08
1	Ni 231.604†	6206.4	5664.8	[0.1000] mg/L	12:47:08
1	Pb 220.353†	800.5	885.7	[0.1000] mg/L	12:47:29
1	Sb 206.836†	438.8	348.1	[0.1000] mg/L	12:47:29
1	Se 196.026†	143.5	147.5	[0.2000] mg/L	12:47:29
1	Sn 189.927†	440.8	326.2	[0.1000] mg/L	12:47:29
1	Ti 337.279†	78560.9	76393.7	[0.1000] mg/L	12:47:08
1	Tl 190.801†	83.0	93.2	[0.1000] mg/L	12:47:29
1	V 292.402†	26660.9	24196.3	[0.1000] mg/L	12:47:08
1	Zn 213.857†	10460.8	9263.7	[0.1000] mg/L	12:47:08
2	Y 360.073	2593849.9	2593849.9		12:47:35
2	Ag 328.068†	15505.5	16068.5	[0.0500] mg/L	12:47:40
2	Al 237.313†	4202.4	4494.0	[0.5] mg/L	12:47:40
2	As 188.979†	128.8	127.5	[0.1000] mg/L	12:48:00
2	B 182.528†	93.2	124.5	[0.1000] mg/L	12:48:00
2	Ba 233.527†	18395.7	18581.0	[0.1000] mg/L	12:47:40
2	Be 313.107†	67480.2	62289.3	[0.0100] mg/L	12:47:35
2	Ca 315.886†	157611.8	152748.3	[1.0000] mg/L	12:47:35
2	Cd 228.802†	4460.8	4058.0	[0.0500] mg/L	12:48:00
2	Co 228.616†	6751.7	7198.9	[0.1000] mg/L	12:47:40
2	Cr 267.716†	17113.2	15424.0	[0.1000] mg/L	12:47:40
2	Cu 324.752†	16086.3	14594.6	[0.1000] mg/L	12:47:40
2	Fe 238.204†	67490.2	65736.6	[0.5] mg/L	12:47:40
2	Fe 234.349†	20676.3	20521.1	[0.5] mg/L	12:47:40
2	Mg 279.077†	22164.2	22088.2	[1.0000] mg/L	12:47:40
2	Mn 257.610†	105673.7	104140.7	[0.1000] mg/L	12:47:40
2	Mo 202.031†	1325.6	1322.2	[0.1000] mg/L	12:48:00
2	Na 330.237†	4969.5	2449.7	[5.0000] mg/L	12:47:40
2	Ni 231.604†	6197.1	5712.6	[0.1000] mg/L	12:47:40
2	Pb 220.353†	808.0	900.5	[0.1000] mg/L	12:48:00
2	Sb 206.836†	445.7	359.0	[0.1000] mg/L	12:48:00
2	Se 196.026†	152.5	157.8	[0.2000] mg/L	12:48:00
2	Sn 189.927†	438.1	327.6	[0.1000] mg/L	12:48:00
2	Ti 337.279†	78787.2	77340.7	[0.1000] mg/L	12:47:40
2	Tl 190.801†	88.7	99.6	[0.1000] mg/L	12:48:00
2	V 292.402†	26672.6	24452.8	[0.1000] mg/L	12:47:40
2	Zn 213.857†	10464.0	9363.0	[0.1000] mg/L	12:47:40

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2605915.8	17063.72	0.65%		
Ag 328.068†	15947.3	171.48	1.08%	[0.0500]	mg/L
Al 237.313†	4452.9	58.08	1.30%	[0.5]	mg/L
As 188.979†	128.0	0.72	0.56%	[0.1000]	mg/L
B 182.528†	128.5	5.64	4.39%	[0.1000]	mg/L
Ba 233.527†	18435.8	205.28	1.11%	[0.1000]	mg/L
Be 313.107†	62199.4	127.14	0.20%	[0.0100]	mg/L
Ca 315.886†	152436.3	441.24	0.29%	[1.0000]	mg/L
Cd 228.802†	4040.9	24.17	0.60%	[0.0500]	mg/L
Co 228.616†	7145.2	75.93	1.06%	[0.1000]	mg/L
Cr 267.716†	15252.4	242.62	1.59%	[0.1000]	mg/L
Cu 324.752†	14393.5	284.39	1.98%	[0.1000]	mg/L
Fe 238.204†	65334.8	568.33	0.87%	[0.5]	mg/L
Fe 234.349†	20395.1	178.23	0.87%	[0.5]	mg/L
Mg 279.077†	21956.3	186.56	0.85%	[1.0000]	mg/L
Mn 257.610†	103542.2	846.45	0.82%	[0.1000]	mg/L
Mo 202.031†	1318.3	5.58	0.42%	[0.1000]	mg/L
Na 330.237†	2470.2	29.03	1.18%	[5.0000]	mg/L
Ni 231.604†	5688.7	33.75	0.59%	[0.1000]	mg/L
Pb 220.353†	893.1	10.44	1.17%	[0.1000]	mg/L
Sb 206.836†	353.5	7.70	2.18%	[0.1000]	mg/L
Se 196.026†	152.6	7.27	4.76%	[0.2000]	mg/L
Sn 189.927†	326.9	0.93	0.28%	[0.1000]	mg/L
Ti 337.279†	76867.2	669.67	0.87%	[0.1000]	mg/L
Tl 190.801†	96.4	4.54	4.71%	[0.1000]	mg/L
V 292.402†	24324.5	181.41	0.75%	[0.1000]	mg/L

Zn 213.857† 9313.4 70.23 0.75% [0.1000] mg/L

Sequence No.: 3
Sample ID: Calib Std 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/7/2006 12:49:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Y 360.073	2586209.4	2586209.4			12:51:11
1	Ag 328.068†	79606.5	80169.3	[0.2500]	mg/L	12:51:17
1	Al 237.313†	21727.6	22019.1	[2.5]	mg/L	12:51:17
1	As 188.979†	634.1	632.9	[0.5000]	mg/L	12:51:37
1	B 182.528†	596.0	627.2	[0.5000]	mg/L	12:51:37
1	Ba 233.527†	90512.4	90700.3	[0.5000]	mg/L	12:51:17
1	Be 313.107†	312039.1	306872.0	[0.0500]	mg/L	12:51:11
1	Ca 315.886†	744952.1	740132.6	[5.0000]	mg/L	12:51:11
1	Cd 228.802†	20984.1	20582.6	[0.2500]	mg/L	12:51:17
1	Co 228.616†	34886.4	35333.4	[0.5000]	mg/L	12:51:17
1	Cr 267.716†	77026.8	75345.1	[0.5000]	mg/L	12:51:17
1	Cu 324.752†	72933.8	71448.8	[0.5000]	mg/L	12:51:17
1	Fe 238.204†	323203.6	321465.9	[2.5]	mg/L	12:51:17
1	Fe 234.349†	100854.2	100702.6	[2.5]	mg/L	12:51:17
1	Mg 279.077†	109218.4	109145.5	[5.0000]	mg/L	12:51:17
1	Mn 257.610†	513518.5	512005.0	[0.5000]	mg/L	12:51:17
1	Mo 202.031†	6480.0	6476.8	[0.5000]	mg/L	12:51:37
1	Na 330.237†	15714.7	13201.8	[25.0000]	mg/L	12:51:17
1	Ni 231.604†	28562.4	28080.1	[0.5000]	mg/L	12:51:17
1	Pb 220.353†	4376.9	4469.3	[0.5000]	mg/L	12:51:37
1	Sb 206.836†	1803.1	1716.7	[0.5000]	mg/L	12:51:37
1	Se 196.026†	742.1	747.5	[1.0000]	mg/L	12:51:37
1	Sn 189.927†	1693.3	1583.2	[0.5000]	mg/L	12:51:37
1	Ti 337.279†	386138.7	384704.3	[0.5000]	mg/L	12:51:17
1	Tl 190.801†	452.8	463.7	[0.5000]	mg/L	12:51:37
1	V 292.402†	123150.7	120940.4	[0.5000]	mg/L	12:51:17
1	Zn 213.857†	46876.4	45780.2	[0.5000]	mg/L	12:51:17
2	Y 360.073	2591735.5	2591735.5			12:51:43
2	Ag 328.068†	79963.1	80355.3	[0.2500]	mg/L	12:51:49
2	Al 237.313†	21794.9	22039.8	[2.5]	mg/L	12:51:49
2	As 188.979†	639.7	637.1	[0.5000]	mg/L	12:52:09
2	B 182.528†	601.3	631.3	[0.5000]	mg/L	12:52:09
2	Ba 233.527†	90395.7	90391.0	[0.5000]	mg/L	12:51:49
2	Be 313.107†	312517.8	306684.5	[0.0500]	mg/L	12:51:43
2	Ca 315.886†	745385.7	738977.8	[5.0000]	mg/L	12:51:43
2	Cd 228.802†	20967.7	20521.5	[0.2500]	mg/L	12:51:49
2	Co 228.616†	34915.5	35288.1	[0.5000]	mg/L	12:51:49
2	Cr 267.716†	77168.8	75322.6	[0.5000]	mg/L	12:51:49
2	Cu 324.752†	72881.2	71241.0	[0.5000]	mg/L	12:51:49
2	Fe 238.204†	323724.8	321297.0	[2.5]	mg/L	12:51:49
2	Fe 234.349†	101047.8	100680.8	[2.5]	mg/L	12:51:49
2	Mg 279.077†	109356.4	109050.4	[5.0000]	mg/L	12:51:49
2	Mn 257.610†	514202.1	511592.5	[0.5000]	mg/L	12:51:49
2	Mo 202.031†	6508.5	6491.4	[0.5000]	mg/L	12:52:09
2	Na 330.237†	15690.0	13143.7	[25.0000]	mg/L	12:51:49
2	Ni 231.604†	28650.3	28106.9	[0.5000]	mg/L	12:51:49
2	Pb 220.353†	4390.4	4473.4	[0.5000]	mg/L	12:52:09
2	Sb 206.836†	1816.4	1726.2	[0.5000]	mg/L	12:52:09
2	Se 196.026†	739.2	742.9	[1.0000]	mg/L	12:52:09
2	Sn 189.927†	1682.5	1568.8	[0.5000]	mg/L	12:52:09
2	Ti 337.279†	386271.8	384014.3	[0.5000]	mg/L	12:51:49
2	Tl 190.801†	477.1	486.9	[0.5000]	mg/L	12:52:09
2	V 292.402†	123277.3	120804.2	[0.5000]	mg/L	12:51:49
2	Zn 213.857†	47022.8	45826.2	[0.5000]	mg/L	12:51:49

Mean Data: Calib Std 2

	Mean Corrected	Calib

Analyte	Intensity	Std.Dev.	RSD	Conc.	Units
Y 360.073	2588972.5	3907.55	0.15%		
Ag 328.068†	80262.3	131.52	0.16%	[0.2500]	mg/L
Al 237.313†	22029.5	14.66	0.07%	[2.5]	mg/L
As 188.979†	635.0	2.97	0.47%	[0.5000]	mg/L
B 182.528†	629.3	2.85	0.45%	[0.5000]	mg/L
Ba 233.527†	90545.7	218.67	0.24%	[0.5000]	mg/L
Be 313.107†	306778.3	132.61	0.04%	[0.0500]	mg/L
Ca 315.886†	739555.2	816.59	0.11%	[5.0000]	mg/L
Cd 228.802†	20552.0	43.19	0.21%	[0.2500]	mg/L
Co 228.616†	35310.7	32.02	0.09%	[0.5000]	mg/L
Cr 267.716†	75333.9	15.89	0.02%	[0.5000]	mg/L
Cu 324.752†	71344.9	146.91	0.21%	[0.5000]	mg/L
Fe 238.204†	321381.4	119.44	0.04%	[2.5]	mg/L
Fe 234.349†	100691.7	15.44	0.02%	[2.5]	mg/L
Mg 279.077†	109097.9	67.28	0.06%	[5.0000]	mg/L
Mn 257.610†	511798.7	291.67	0.06%	[0.5000]	mg/L
Mo 202.031†	6484.1	10.31	0.16%	[0.5000]	mg/L
Na 330.237†	13172.7	41.09	0.31%	[25.0000]	mg/L
Ni 231.604†	28093.5	18.93	0.07%	[0.5000]	mg/L
Pb 220.353†	4471.3	2.89	0.06%	[0.5000]	mg/L
Sb 206.836†	1721.4	6.68	0.39%	[0.5000]	mg/L
Se 196.026†	745.2	3.21	0.43%	[1.0000]	mg/L
Sn 189.927†	1576.0	10.18	0.65%	[0.5000]	mg/L
Ti 337.279†	384359.3	487.91	0.13%	[0.5000]	mg/L
Tl 190.801†	475.3	16.43	3.46%	[0.5000]	mg/L
V 292.402†	120872.3	96.29	0.08%	[0.5000]	mg/L
Zn 213.857†	45803.2	32.58	0.07%	[0.5000]	mg/L

Sequence No.: 4
Sample ID: Calib Std 3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/7/2006 12:53:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 3

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	Y 360.073	2623837.2	2623837.2			12:55:24
1	Ag 328.068†	162389.0	160565.5	[0.5000]	mg/L	12:55:24
1	Al 237.313†	44322.2	43962.4	[5]	mg/L	12:55:24
1	As 188.979†	1265.9	1246.1	[1.0000]	mg/L	12:55:44
1	B 182.528†	1238.4	1251.4	[1.0000]	mg/L	12:55:44
1	Ba 233.527†	181969.7	179484.5	[1.0000]	mg/L	12:55:24
1	Be 313.107†	624652.0	610309.8	[0.1000]	mg/L	12:55:24
1	Ca 315.886†	1486258.1	1459609.8	[10.0000]	mg/L	12:55:24
1	Cd 228.802†	41628.2	40615.4	[0.5000]	mg/L	12:55:24
1	Co 228.616†	70130.5	69547.2	[1.0000]	mg/L	12:55:24
1	Cr 267.716†	152818.6	148892.8	[1.0000]	mg/L	12:55:24
1	Cu 324.752†	145983.9	142354.7	[1.0000]	mg/L	12:55:24
1	Fe 238.204†	648553.1	637288.7	[5]	mg/L	12:55:24
1	Fe 234.349†	202721.9	199592.4	[5]	mg/L	12:55:24
1	Mg 279.077†	219714.6	216414.1	[10.0000]	mg/L	12:55:24
1	Mn 257.610†	1025404.6	1008830.5	[1.0000]	mg/L	12:55:24
1	Mo 202.031†	12908.0	12715.2	[1.0000]	mg/L	12:55:44
1	Na 330.237†	30322.6	27364.7	[50.0000]	mg/L	12:55:24
1	Ni 231.604†	56673.4	55358.9	[1.0000]	mg/L	12:55:24
1	Pb 220.353†	8867.8	8829.9	[1.0000]	mg/L	12:55:44
1	Sb 206.836†	3544.3	3405.9	[1.0000]	mg/L	12:55:44
1	Se 196.026†	1490.9	1474.4	[2.0000]	mg/L	12:55:44
1	Sn 189.927†	3206.4	3049.3	[1.0000]	mg/L	12:55:44
1	Ti 337.279†	780851.0	767944.5	[1.0000]	mg/L	12:55:24
1	Tl 190.801†	1016.2	1012.1	[1.0000]	mg/L	12:55:44
1	V 292.402†	245811.0	239990.5	[1.0000]	mg/L	12:55:24
1	Zn 213.857†	93201.7	90736.7	[1.0000]	mg/L	12:55:24
2	Y 360.073	2622335.0	2622335.0			12:55:54
2	Ag 328.068†	162183.3	160454.4	[0.5000]	mg/L	12:55:54
2	Al 237.313†	44405.8	44069.7	[5]	mg/L	12:55:54
2	As 188.979†	1272.9	1253.7	[1.0000]	mg/L	12:56:15

2	B 182.528†	1242.3	1256.0	[1.0000]	mg/L	12:56:15
2	Ba 233.527†	182389.2	180000.6	[1.0000]	mg/L	12:55:54
2	Be 313.107†	626489.0	612472.7	[0.1000]	mg/L	12:55:54
2	Ca 315.886†	1491526.7	1465640.7	[10.0000]	mg/L	12:55:54
2	Cd 228.802†	41741.6	40750.6	[0.5000]	mg/L	12:55:54
2	Co 228.616†	70396.8	69849.2	[1.0000]	mg/L	12:55:54
2	Cr 267.716†	153309.6	149462.9	[1.0000]	mg/L	12:55:54
2	Cu 324.752†	144313.2	140790.5	[1.0000]	mg/L	12:55:54
2	Fe 238.204†	650243.8	639320.8	[5]	mg/L	12:55:54
2	Fe 234.349†	203190.7	200168.8	[5]	mg/L	12:55:54
2	Mg 279.077†	220504.0	217316.0	[10.0000]	mg/L	12:55:54
2	Mn 257.610†	1027021.3	1011002.4	[1.0000]	mg/L	12:55:54
2	Mo 202.031†	13052.5	12864.9	[1.0000]	mg/L	12:56:15
2	Na 330.237†	30251.8	27312.0	[50.0000]	mg/L	12:55:54
2	Ni 231.604†	56898.4	55612.6	[1.0000]	mg/L	12:55:54
2	Pb 220.353†	8879.7	8846.6	[1.0000]	mg/L	12:56:15
2	Sb 206.836†	3571.4	3434.6	[1.0000]	mg/L	12:56:15
2	Se 196.026†	1499.9	1484.0	[2.0000]	mg/L	12:56:15
2	Sn 189.927†	3207.8	3052.5	[1.0000]	mg/L	12:56:15
2	Ti 337.279†	782030.5	769547.4	[1.0000]	mg/L	12:55:54
2	Tl 190.801†	1059.7	1055.6	[1.0000]	mg/L	12:56:15
2	V 292.402†	246392.9	240702.6	[1.0000]	mg/L	12:55:54
2	Zn 213.857†	93283.9	90870.3	[1.0000]	mg/L	12:55:54

Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 360.073	2623086.1	1062.22	0.04%		
Ag 328.068†	160509.9	78.58	0.05%	[0.5000]	mg/L
Al 237.313†	44016.0	75.93	0.17%	[5]	mg/L
As 188.979†	1249.9	5.42	0.43%	[1.0000]	mg/L
B 182.528†	1253.7	3.24	0.26%	[1.0000]	mg/L
Ba 233.527†	179742.5	364.92	0.20%	[1.0000]	mg/L
Be 313.107†	611391.3	1529.37	0.25%	[0.1000]	mg/L
Ca 315.886†	1462625.2	4264.49	0.29%	[10.0000]	mg/L
Cd 228.802†	40683.0	95.61	0.24%	[0.5000]	mg/L
Co 228.616†	69698.2	213.55	0.31%	[1.0000]	mg/L
Cr 267.716†	149177.8	403.09	0.27%	[1.0000]	mg/L
Cu 324.752†	141572.6	1106.03	0.78%	[1.0000]	mg/L
Fe 238.204†	638304.7	1436.96	0.23%	[5]	mg/L
Fe 234.349†	199880.6	407.57	0.20%	[5]	mg/L
Mg 279.077†	216865.0	637.74	0.29%	[10.0000]	mg/L
Mn 257.610†	1009916.4	1535.77	0.15%	[1.0000]	mg/L
Mo 202.031†	12790.1	105.87	0.83%	[1.0000]	mg/L
Na 330.237†	27338.4	37.27	0.14%	[50.0000]	mg/L
Ni 231.604†	55485.7	179.35	0.32%	[1.0000]	mg/L
Pb 220.353†	8838.3	11.83	0.13%	[1.0000]	mg/L
Sb 206.836†	3420.2	20.29	0.59%	[1.0000]	mg/L
Se 196.026†	1479.2	6.84	0.46%	[2.0000]	mg/L
Sn 189.927†	3050.9	2.26	0.07%	[1.0000]	mg/L
Ti 337.279†	768745.9	1133.46	0.15%	[1.0000]	mg/L
Tl 190.801†	1033.8	30.70	2.97%	[1.0000]	mg/L
V 292.402†	240346.6	503.57	0.21%	[1.0000]	mg/L
Zn 213.857†	90803.5	94.48	0.10%	[1.0000]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	-44.7	321100	0.00000	1.000000	
Al 237.313	3	Lin, Calc Int	26.8	8799	0.00000	0.999999	
As 188.979	3	Lin, Calc Int	3.2	1250	0.00000	0.999965	
B 182.528	3	Lin, Calc Int	1.8	1253	0.00000	0.999996	
Ba 233.527	3	Lin, Calc Int	329.8	179600	0.00000	0.999992	
Be 313.107	3	Lin, Calc Int	671.1	6111000	0.00000	0.999998	
Ca 315.886	3	Lin, Calc Int	4267.3	146100	0.00000	0.999980	
Cd 228.802	3	Lin, Calc Int	26.9	81460	0.00000	0.999983	
Co 228.616	3	Lin, Calc Int	163.4	69690	0.00000	0.999976	
Cr 267.716	3	Lin, Calc Int	286.6	149100	0.00000	0.999986	
Cu 324.752	3	Lin, Calc Int	208.4	141500	0.00000	0.999992	

Fe 238.204	3	Lin, Calc Int	1080.7	127600	0.00000	0.999993
Fe 234.349	3	Lin, Calc Int	319.9	39960	0.00000	0.999992
Mg 279.077	3	Lin, Calc Int	243.1	21680	0.00000	0.999995
Mn 257.610	3	Lin, Calc Int	2400.1	1010000	0.00000	0.999975
Mo 202.031	3	Lin, Calc Int	33.9	12790	0.00000	0.999974
Na 330.237	3	Lin, Calc Int	-209.0	547.7	0.00000	0.999817
Ni 231.604	3	Lin, Calc Int	127.2	55470	0.00000	0.999978
Pb 220.353	3	Lin, Calc Int	13.8	8842	0.00000	0.999981
Sb 206.836	3	Lin, Calc Int	7.2	3416	0.00000	0.999992
Se 196.026	3	Lin, Calc Int	3.1	738.9	0.00000	0.999990
Sn 189.927	3	Lin, Calc Int	19.0	3048	0.00000	0.999851
Ti 337.279	3	Lin, Calc Int	-5.8	768700	0.00000	1.000000
Tl 190.801	3	Lin, Calc Int	-10.8	1031	0.00000	0.999102
V 292.402	3	Lin, Calc Int	258.2	240300	0.00000	0.999995
Zn 213.857	3	Lin, Calc Int	177.8	90760	0.00000	0.999989

Sequence No.: 5 **Autosampler Location: 3**
Sample ID: STD2 **Date Collected: 6/7/2006 12:57:53 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: STD2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2609056.2	2609056.2					12:59:25
1	Ag 328.068†	79683.1	79548.6	0.2480	mg/L	0.2480	mg/L	12:59:31
1	Al 237.313†	21654.2	21756.2	2.449	mg/L	2.449	mg/L	12:59:31
1	As 188.979†	633.6	626.8	0.5003	mg/L	0.5003	mg/L	12:59:51
1	B 182.528†	607.8	633.7	0.5045	mg/L	0.5045	mg/L	12:59:51
1	Ba 233.527†	90204.1	89602.9	0.4966	mg/L	0.4966	mg/L	12:59:31
1	Be 313.107†	313711.4	305798.0	0.0500	mg/L	0.0500	mg/L	12:59:25
1	Ca 315.886†	747703.6	736339.5	5.011	mg/L	5.011	mg/L	12:59:25
1	Cd 228.802†	20986.6	20401.5	0.2480	mg/L	0.2480	mg/L	12:59:31
1	Co 228.616†	34822.3	34964.6	0.4979	mg/L	0.4979	mg/L	12:59:31
1	Cr 267.716†	76919.6	74564.9	0.4981	mg/L	0.4981	mg/L	12:59:31
1	Cu 324.752†	71771.2	69659.0	0.4908	mg/L	0.4908	mg/L	12:59:31
1	Fe 238.204†	323025.7	318461.5	2.488	mg/L	2.488	mg/L	12:59:31
1	Fe 234.349†	100642.4	99610.2	2.480	mg/L	2.480	mg/L	12:59:31
1	Mg 279.077†	108888.3	107862.8	4.960	mg/L	4.960	mg/L	12:59:31
1	Mn 257.610†	512394.7	506398.3	0.4992	mg/L	0.4992	mg/L	12:59:31
1	Mo 202.031†	6516.9	6456.6	0.5028	mg/L	0.5028	mg/L	12:59:51
1	Na 330.237†	15596.2	12946.9	24.01	mg/L	24.01	mg/L	12:59:31
1	Ni 231.604†	28556.4	27824.3	0.4989	mg/L	0.4989	mg/L	12:59:31
1	Pb 220.353†	4385.8	4439.8	0.5028	mg/L	0.5028	mg/L	12:59:51
1	Sb 206.836†	1816.8	1714.5	0.4930	mg/L	0.4930	mg/L	12:59:51
1	Se 196.026†	748.9	747.7	1.008	mg/L	1.008	mg/L	12:59:51
1	Sn 189.927†	1642.9	1518.4	0.4930	mg/L	0.4930	mg/L	12:59:51
1	Ti 337.279†	384807.2	380006.5	0.4943	mg/L	0.4943	mg/L	12:59:31
1	Tl 190.801†	522.5	528.8	0.5234	mg/L	0.5234	mg/L	12:59:51
1	V 292.402†	122711.5	119427.8	0.4992	mg/L	0.4992	mg/L	12:59:31
1	Zn 213.857†	46874.8	45368.4	0.4948	mg/L	0.4948	mg/L	12:59:31
2	Y 360.073	2632521.8	2632521.8					12:59:57
2	Ag 328.068†	80442.7	79590.7	0.2481	mg/L	0.2481	mg/L	13:00:03
2	Al 237.313†	21975.0	21880.0	2.463	mg/L	2.463	mg/L	13:00:03
2	As 188.979†	632.5	620.2	0.4951	mg/L	0.4951	mg/L	13:00:23
2	B 182.528†	606.6	627.2	0.4992	mg/L	0.4992	mg/L	13:00:23
2	Ba 233.527†	91025.6	89612.9	0.4967	mg/L	0.4967	mg/L	13:00:03
2	Be 313.107†	316063.4	305337.1	0.0499	mg/L	0.0499	mg/L	12:59:57
2	Ca 315.886†	752308.7	734258.5	4.997	mg/L	4.997	mg/L	12:59:57
2	Cd 228.802†	21125.5	20352.5	0.2474	mg/L	0.2474	mg/L	13:00:03
2	Co 228.616†	35132.0	34961.2	0.4979	mg/L	0.4979	mg/L	13:00:03
2	Cr 267.716†	77705.4	74657.2	0.4988	mg/L	0.4988	mg/L	13:00:03
2	Cu 324.752†	72762.8	69998.8	0.4932	mg/L	0.4932	mg/L	13:00:03
2	Fe 238.204†	326114.3	318641.5	2.490	mg/L	2.490	mg/L	13:00:03
2	Fe 234.349†	101759.6	99818.4	2.485	mg/L	2.485	mg/L	13:00:03
2	Mg 279.077†	109966.3	107959.7	4.964	mg/L	4.964	mg/L	13:00:03
2	Mn 257.610†	517184.9	506576.7	0.4994	mg/L	0.4994	mg/L	13:00:03
2	Mo 202.031†	6515.4	6397.6	0.4982	mg/L	0.4982	mg/L	13:00:23

2	Na 330.237†	15819.2	13028.2	24.16 mg/L	24.16 mg/L	13:00:03
2	Ni 231.604†	28800.8	27812.0	0.4987 mg/L	0.4987 mg/L	13:00:03
2	Pb 220.353†	4405.1	4420.0	0.5005 mg/L	0.5005 mg/L	13:00:23
2	Sb 206.836†	1805.8	1687.6	0.4852 mg/L	0.4852 mg/L	13:00:23
2	Se 196.026†	744.6	736.9	0.9930 mg/L	0.9930 mg/L	13:00:23
2	Sn 189.927†	1667.4	1528.0	0.4961 mg/L	0.4961 mg/L	13:00:23
2	Ti 337.279†	389680.9	381393.4	0.4961 mg/L	0.4961 mg/L	13:00:03
2	Tl 190.801†	538.3	539.7	0.5340 mg/L	0.5340 mg/L	13:00:23
2	V 292.402†	124096.0	119703.5	0.5003 mg/L	0.5003 mg/L	13:00:03
2	Zn 213.857†	47294.6	45366.6	0.4948 mg/L	0.4948 mg/L	13:00:03

Mean Data: STD2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2620789.0						16592.70	0.63%
Ag 328.068†	79569.6	0.2480	mg/L	0.00009	0.2480	mg/L	0.00009	0.04%
QC value within limits for Ag 328.068 Recovery = 99.21%								
Al 237.313†	21818.1	2.456	mg/L	0.0099	2.456	mg/L	0.0099	0.40%
QC value within limits for Al 237.313 Recovery = 98.23%								
As 188.979†	623.5	0.4977	mg/L	0.00373	0.4977	mg/L	0.00373	0.75%
QC value within limits for As 188.979 Recovery = 99.54%								
B 182.528†	630.4	0.5019	mg/L	0.00370	0.5019	mg/L	0.00370	0.74%
QC value within limits for B 182.528 Recovery = 100.37%								
Ba 233.527†	89607.9	0.4967	mg/L	0.00004	0.4967	mg/L	0.00004	0.01%
QC value within limits for Ba 233.527 Recovery = 99.33%								
Be 313.107†	305567.5	0.0499	mg/L	0.00005	0.0499	mg/L	0.00005	0.11%
QC value within limits for Be 313.107 Recovery = 99.85%								
Ca 315.886†	735299.0	5.004	mg/L	0.0101	5.004	mg/L	0.0101	0.20%
QC value within limits for Ca 315.886 Recovery = 100.08%								
Cd 228.802†	20377.0	0.2477	mg/L	0.00041	0.2477	mg/L	0.00041	0.17%
QC value within limits for Cd 228.802 Recovery = 99.07%								
Co 228.616†	34962.9	0.4979	mg/L	0.00004	0.4979	mg/L	0.00004	0.01%
QC value within limits for Co 228.616 Recovery = 99.58%								
Cr 267.716†	74611.1	0.4985	mg/L	0.00044	0.4985	mg/L	0.00044	0.09%
QC value within limits for Cr 267.716 Recovery = 99.69%								
Cu 324.752†	69828.9	0.4920	mg/L	0.00170	0.4920	mg/L	0.00170	0.35%
QC value within limits for Cu 324.752 Recovery = 98.41%								
Fe 238.204†	318551.5	2.489	mg/L	0.0010	2.489	mg/L	0.0010	0.04%
QC value within limits for Fe 238.204 Recovery = 99.56%								
Fe 234.349†	99714.3	2.483	mg/L	0.0037	2.483	mg/L	0.0037	0.15%
QC value within limits for Fe 234.349 Recovery = 99.31%								
Mg 279.077†	107911.2	4.962	mg/L	0.0032	4.962	mg/L	0.0032	0.06%
QC value within limits for Mg 279.077 Recovery = 99.24%								
Mn 257.610†	506487.5	0.4993	mg/L	0.00013	0.4993	mg/L	0.00013	0.03%
QC value within limits for Mn 257.610 Recovery = 99.86%								
Mo 202.031†	6427.1	0.5005	mg/L	0.00326	0.5005	mg/L	0.00326	0.65%
QC value within limits for Mo 202.031 Recovery = 100.11%								
Na 330.237†	12987.6	24.09	mg/L	0.105	24.09	mg/L	0.105	0.44%
QC value within limits for Na 330.237 Recovery = 96.35%								
Ni 231.604†	27818.2	0.4988	mg/L	0.00016	0.4988	mg/L	0.00016	0.03%
QC value within limits for Ni 231.604 Recovery = 99.76%								
Pb 220.353†	4429.9	0.5016	mg/L	0.00159	0.5016	mg/L	0.00159	0.32%
QC value within limits for Pb 220.353 Recovery = 100.33%								
Sb 206.836†	1701.0	0.4891	mg/L	0.00555	0.4891	mg/L	0.00555	1.14%
QC value within limits for Sb 206.836 Recovery = 97.82%								
Se 196.026†	742.3	1.000	mg/L	0.0103	1.000	mg/L	0.0103	1.03%
QC value within limits for Se 196.026 Recovery = 100.03%								
Sn 189.927†	1523.2	0.4946	mg/L	0.00222	0.4946	mg/L	0.00222	0.45%
QC value within limits for Sn 189.927 Recovery = 98.91%								
Ti 337.279†	380700.0	0.4952	mg/L	0.00128	0.4952	mg/L	0.00128	0.26%
QC value within limits for Ti 337.279 Recovery = 99.05%								
Tl 190.801†	534.2	0.5287	mg/L	0.00752	0.5287	mg/L	0.00752	1.42%
QC value greater than the upper limit for Tl 190.801 Recovery = 105.75%								
V 292.402†	119565.7	0.4998	mg/L	0.00081	0.4998	mg/L	0.00081	0.16%
QC value within limits for V 292.402 Recovery = 99.95%								
Zn 213.857†	45367.5	0.4948	mg/L	0.00001	0.4948	mg/L	0.00001	0.00%
QC value within limits for Zn 213.857 Recovery = 98.96%								

QC Failed. Continue with analysis.

Sequence No.: 6
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/7/2006 1:02:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2631484.7	2631484.7					13:03:34
1	Ag 328.068†	81580.2	80739.0	0.2517	mg/L	0.2517	mg/L	13:03:40
1	Al 237.313†	21867.2	21782.6	2.451	mg/L	2.451	mg/L	13:03:40
1	As 188.979†	630.5	618.5	0.4935	mg/L	0.4935	mg/L	13:04:00
1	B 182.528†	608.2	629.0	0.5007	mg/L	0.5007	mg/L	13:04:00
1	Ba 233.527†	90138.1	88776.6	0.4920	mg/L	0.4920	mg/L	13:03:40
1	Be 313.107†	320014.8	309340.0	0.0505	mg/L	0.0505	mg/L	13:03:34
1	Ca 315.886†	760049.1	742151.3	5.051	mg/L	5.051	mg/L	13:03:34
1	Cd 228.802†	21398.1	20628.4	0.2508	mg/L	0.2508	mg/L	13:03:40
1	Co 228.616†	35044.0	34888.3	0.4969	mg/L	0.4969	mg/L	13:03:40
1	Cr 267.716†	78201.7	75174.7	0.5022	mg/L	0.5022	mg/L	13:03:40
1	Cu 324.752†	72418.8	69689.1	0.4910	mg/L	0.4910	mg/L	13:03:40
1	Fe 238.204†	330060.7	322643.4	2.521	mg/L	2.521	mg/L	13:03:40
1	Fe 234.349†	102963.4	101040.1	2.516	mg/L	2.516	mg/L	13:03:40
1	Mg 279.077†	108780.4	106837.6	4.912	mg/L	4.912	mg/L	13:03:40
1	Mn 257.610†	519765.3	509311.0	0.5021	mg/L	0.5021	mg/L	13:03:40
1	Mo 202.031†	6489.2	6374.5	0.4964	mg/L	0.4964	mg/L	13:04:00
1	Na 330.237†	15737.7	12954.3	24.03	mg/L	24.03	mg/L	13:03:40
1	Ni 231.604†	29137.2	28153.6	0.5049	mg/L	0.5049	mg/L	13:03:40
1	Pb 220.353†	4350.1	4367.7	0.4946	mg/L	0.4946	mg/L	13:04:00
1	Sb 206.836†	1785.7	1668.6	0.4796	mg/L	0.4796	mg/L	13:04:00
1	Se 196.026†	745.2	737.8	0.9942	mg/L	0.9942	mg/L	13:04:00
1	Sn 189.927†	1668.3	1529.5	0.4966	mg/L	0.4966	mg/L	13:04:00
1	Ti 337.279†	367033.3	359302.2	0.4674	mg/L	0.4674	mg/L	13:03:40
1	Tl 190.801†	509.4	511.5	0.5067	mg/L	0.5067	mg/L	13:04:00
1	V 292.402†	123792.5	119453.4	0.4994	mg/L	0.4994	mg/L	13:03:40
1	Zn 213.857†	47701.5	45784.5	0.4993	mg/L	0.4993	mg/L	13:03:40
2	Y 360.073	2629056.8	2629056.8					13:04:06
2	Ag 328.068†	80827.5	80073.1	0.2496	mg/L	0.2496	mg/L	13:04:12
2	Al 237.313†	21643.9	21582.9	2.429	mg/L	2.429	mg/L	13:04:12
2	As 188.979†	624.0	612.6	0.4888	mg/L	0.4888	mg/L	13:04:32
2	B 182.528†	602.2	623.6	0.4964	mg/L	0.4964	mg/L	13:04:32
2	Ba 233.527†	89433.3	88165.4	0.4886	mg/L	0.4886	mg/L	13:04:12
2	Be 313.107†	319959.9	309576.3	0.0506	mg/L	0.0506	mg/L	13:04:06
2	Ca 315.886†	760689.4	743470.1	5.060	mg/L	5.060	mg/L	13:04:06
2	Cd 228.802†	21178.9	20432.4	0.2484	mg/L	0.2484	mg/L	13:04:12
2	Co 228.616†	34669.5	34552.0	0.4921	mg/L	0.4921	mg/L	13:04:12
2	Cr 267.716†	77653.0	74706.2	0.4991	mg/L	0.4991	mg/L	13:04:12
2	Cu 324.752†	72085.2	69426.8	0.4892	mg/L	0.4892	mg/L	13:04:12
2	Fe 238.204†	327589.9	320514.0	2.504	mg/L	2.504	mg/L	13:04:12
2	Fe 234.349†	102272.6	100454.3	2.501	mg/L	2.501	mg/L	13:04:12
2	Mg 279.077†	108135.1	106301.9	4.888	mg/L	4.888	mg/L	13:04:12
2	Mn 257.610†	515402.1	505493.4	0.4983	mg/L	0.4983	mg/L	13:04:12
2	Mo 202.031†	6488.0	6379.1	0.4968	mg/L	0.4968	mg/L	13:04:32
2	Na 330.237†	15562.3	12796.1	23.74	mg/L	23.74	mg/L	13:04:12
2	Ni 231.604†	28878.8	27926.0	0.5008	mg/L	0.5008	mg/L	13:04:12
2	Pb 220.353†	4352.7	4374.2	0.4953	mg/L	0.4953	mg/L	13:04:32
2	Sb 206.836†	1770.8	1655.6	0.4758	mg/L	0.4758	mg/L	13:04:32
2	Se 196.026†	749.6	742.7	1.001	mg/L	1.001	mg/L	13:04:32
2	Sn 189.927†	1667.9	1530.6	0.4969	mg/L	0.4969	mg/L	13:04:32
2	Ti 337.279†	362890.3	355562.5	0.4625	mg/L	0.4625	mg/L	13:04:12
2	Tl 190.801†	519.7	522.1	0.5169	mg/L	0.5169	mg/L	13:04:32
2	V 292.402†	122552.5	118346.8	0.4947	mg/L	0.4947	mg/L	13:04:12
2	Zn 213.857†	47306.5	45439.6	0.4955	mg/L	0.4955	mg/L	13:04:12

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2630270.7						1716.80	0.07%
Ag 328.068†	80406.0	0.2506	mg/L	0.00147	0.2506	mg/L	0.00147	0.59%

QC value within limits for Ag 328.068 Recovery = 100.25%

Al 237.313†	21682.8	2.440 mg/L	0.0160	2.440 mg/L	0.0160	0.65%
QC value within limits for Al 237.313 Recovery = 97.61%						
As 188.979†	615.6	0.4911 mg/L	0.00332	0.4911 mg/L	0.00332	0.68%
QC value within limits for As 188.979 Recovery = 98.23%						
B 182.528†	626.3	0.4985 mg/L	0.00304	0.4985 mg/L	0.00304	0.61%
QC value within limits for B 182.528 Recovery = 99.71%						
Ba 233.527†	88471.0	0.4903 mg/L	0.00240	0.4903 mg/L	0.00240	0.49%
QC value within limits for Ba 233.527 Recovery = 98.07%						
Be 313.107†	309458.2	0.0506 mg/L	0.00003	0.0506 mg/L	0.00003	0.05%
QC value within limits for Be 313.107 Recovery = 101.12%						
Ca 315.886†	742810.7	5.056 mg/L	0.0064	5.056 mg/L	0.0064	0.13%
QC value within limits for Ca 315.886 Recovery = 101.11%						
Cd 228.802†	20530.4	0.2496 mg/L	0.00169	0.2496 mg/L	0.00169	0.68%
QC value within limits for Cd 228.802 Recovery = 99.83%						
Co 228.616†	34720.2	0.4945 mg/L	0.00340	0.4945 mg/L	0.00340	0.69%
QC value within limits for Co 228.616 Recovery = 98.90%						
Cr 267.716†	74940.4	0.5007 mg/L	0.00222	0.5007 mg/L	0.00222	0.44%
QC value within limits for Cr 267.716 Recovery = 100.13%						
Cu 324.752†	69558.0	0.4901 mg/L	0.00131	0.4901 mg/L	0.00131	0.27%
QC value within limits for Cu 324.752 Recovery = 98.02%						
Fe 238.204†	321578.7	2.513 mg/L	0.0118	2.513 mg/L	0.0118	0.47%
QC value within limits for Fe 238.204 Recovery = 100.51%						
Fe 234.349†	100747.2	2.508 mg/L	0.0103	2.508 mg/L	0.0103	0.41%
QC value within limits for Fe 234.349 Recovery = 100.34%						
Mg 279.077†	106569.7	4.900 mg/L	0.0175	4.900 mg/L	0.0175	0.36%
QC value within limits for Mg 279.077 Recovery = 98.00%						
Mn 257.610†	507402.2	0.5002 mg/L	0.00267	0.5002 mg/L	0.00267	0.53%
QC value within limits for Mn 257.610 Recovery = 100.04%						
Mo 202.031†	6376.8	0.4966 mg/L	0.00025	0.4966 mg/L	0.00025	0.05%
QC value within limits for Mo 202.031 Recovery = 99.32%						
Na 330.237†	12875.2	23.88 mg/L	0.204	23.88 mg/L	0.204	0.85%
QC value within limits for Na 330.237 Recovery = 95.53%						
Ni 231.604†	28039.8	0.5028 mg/L	0.00290	0.5028 mg/L	0.00290	0.58%
QC value within limits for Ni 231.604 Recovery = 100.56%						
Pb 220.353†	4371.0	0.4949 mg/L	0.00052	0.4949 mg/L	0.00052	0.10%
QC value within limits for Pb 220.353 Recovery = 98.99%						
Sb 206.836†	1662.1	0.4777 mg/L	0.00267	0.4777 mg/L	0.00267	0.56%
QC value within limits for Sb 206.836 Recovery = 95.54%						
Se 196.026†	740.2	0.9976 mg/L	0.00474	0.9976 mg/L	0.00474	0.48%
QC value within limits for Se 196.026 Recovery = 99.76%						
Sn 189.927†	1530.1	0.4967 mg/L	0.00024	0.4967 mg/L	0.00024	0.05%
QC value within limits for Sn 189.927 Recovery = 99.35%						
Ti 337.279†	357432.4	0.4650 mg/L	0.00344	0.4650 mg/L	0.00344	0.74%
QC value within limits for Ti 337.279 Recovery = 92.99%						
Tl 190.801†	516.8	0.5118 mg/L	0.00727	0.5118 mg/L	0.00727	1.42%
QC value within limits for Tl 190.801 Recovery = 102.36%						
V 292.402†	118900.1	0.4970 mg/L	0.00327	0.4970 mg/L	0.00327	0.66%
QC value within limits for V 292.402 Recovery = 99.41%						
Zn 213.857†	45612.0	0.4974 mg/L	0.00267	0.4974 mg/L	0.00267	0.54%
QC value within limits for Zn 213.857 Recovery = 99.49%						

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/7/2006 1:06:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2606657.6	2606657.6					13:07:41
1	Ag 328.068†	-591.5	33.3	0.0002	mg/L	0.0002	mg/L	13:07:47
1	Al 237.313†	-310.8	-1.1	-0.0031	mg/L	-0.0031	mg/L	13:08:07
1	As 188.979†	2.9	2.1	-0.0009	mg/L	-0.0009	mg/L	13:08:07
1	B 182.528†	-24.0	7.9	0.0048	mg/L	0.0048	mg/L	13:08:07
1	Ba 233.527†	-252.3	2.4	-0.0018	mg/L	-0.0018	mg/L	13:08:07
1	Be 313.107†	4836.7	-148.7	-0.0001	mg/L	-0.0001	mg/L	13:07:41

1	Ca 315.886†	4324.5	0.6	-0.0292 mg/L	-0.0292 mg/L	13:07:47
1	Cd 228.802†	412.1	22.1	-0.0001 mg/L	-0.0001 mg/L	13:08:07
1	Co 228.616†	-468.5	7.4	-0.0022 mg/L	-0.0022 mg/L	13:08:07
1	Cr 267.716†	1757.0	115.4	-0.0011 mg/L	-0.0011 mg/L	13:07:47
1	Cu 324.752†	1348.8	-95.5	-0.0021 mg/L	-0.0021 mg/L	13:07:47
1	Fe 238.204†	1447.1	-71.9	-0.0090 mg/L	-0.0090 mg/L	13:08:07
1	Fe 234.349†	51.7	-28.3	-0.0087 mg/L	-0.0087 mg/L	13:08:07
1	Mg 279.077†	-84.2	-78.4	-0.0148 mg/L	-0.0148 mg/L	13:07:47
1	Mn 257.610†	1056.1	-99.3	-0.0025 mg/L	-0.0025 mg/L	13:07:47
1	Mo 202.031†	24.0	25.2	-0.0007 mg/L	-0.0007 mg/L	13:08:07
1	Na 330.237†	2522.3	-0.9	0.3801 mg/L	0.3801 mg/L	13:07:47
1	Ni 231.604†	472.3	6.5	-0.0022 mg/L	-0.0022 mg/L	13:08:07
1	Pb 220.353†	-102.5	-6.2	-0.0023 mg/L	-0.0023 mg/L	13:08:07
1	Sb 206.836†	85.4	-0.4	-0.0022 mg/L	-0.0022 mg/L	13:08:07
1	Se 196.026†	-3.2	2.7	-0.0006 mg/L	-0.0006 mg/L	13:08:07
1	Sn 189.927†	77.4	-32.2	-0.0168 mg/L	-0.0168 mg/L	13:08:07
1	Ti 337.279†	1395.0	224.8	0.0003 mg/L	0.0003 mg/L	13:07:47
1	Tl 190.801†	28.9	39.9	0.0492 mg/L	0.0492 mg/L	13:08:07
1	V 292.402†	2181.5	40.7	-0.0009 mg/L	-0.0009 mg/L	13:07:47
1	Zn 213.857†	1086.5	14.5	-0.0018 mg/L	-0.0018 mg/L	13:08:07
2	Y 360.073	2610621.9	2610621.9			13:08:13
2	Ag 328.068†	-560.1	65.3	0.0003 mg/L	0.0003 mg/L	13:08:18
2	Al 237.313†	-289.0	20.9	-0.0006 mg/L	-0.0006 mg/L	13:08:38
2	As 188.979†	4.2	3.4	0.0002 mg/L	0.0002 mg/L	13:08:38
2	B 182.528†	-15.3	16.5	0.0117 mg/L	0.0117 mg/L	13:08:38
2	Ba 233.527†	-233.3	21.6	-0.0017 mg/L	-0.0017 mg/L	13:08:38
2	Be 313.107†	4969.5	-24.5	-0.0001 mg/L	-0.0001 mg/L	13:08:13
2	Ca 315.886†	4611.5	278.3	-0.0273 mg/L	-0.0273 mg/L	13:08:18
2	Cd 228.802†	394.9	4.4	-0.0003 mg/L	-0.0003 mg/L	13:08:38
2	Co 228.616†	-484.9	-8.1	-0.0025 mg/L	-0.0025 mg/L	13:08:38
2	Cr 267.716†	1673.8	30.4	-0.0017 mg/L	-0.0017 mg/L	13:08:18
2	Cu 324.752†	1360.5	-86.0	-0.0021 mg/L	-0.0021 mg/L	13:08:18
2	Fe 238.204†	1426.5	-94.4	-0.0092 mg/L	-0.0092 mg/L	13:08:38
2	Fe 234.349†	50.6	-29.4	-0.0087 mg/L	-0.0087 mg/L	13:08:38
2	Mg 279.077†	-70.3	-64.4	-0.0142 mg/L	-0.0142 mg/L	13:08:18
2	Mn 257.610†	1116.5	-41.2	-0.0024 mg/L	-0.0024 mg/L	13:08:18
2	Mo 202.031†	25.1	26.3	-0.0006 mg/L	-0.0006 mg/L	13:08:38
2	Na 330.237†	2574.8	47.2	0.4679 mg/L	0.4679 mg/L	13:08:18
2	Ni 231.604†	475.5	8.9	-0.0021 mg/L	-0.0021 mg/L	13:08:38
2	Pb 220.353†	-101.7	-5.1	-0.0021 mg/L	-0.0021 mg/L	13:08:38
2	Sb 206.836†	95.4	9.3	0.0006 mg/L	0.0006 mg/L	13:08:38
2	Se 196.026†	-8.6	-2.7	-0.0078 mg/L	-0.0078 mg/L	13:08:38
2	Sn 189.927†	78.7	-31.0	-0.0164 mg/L	-0.0164 mg/L	13:08:38
2	Ti 337.279†	1327.9	156.3	0.0002 mg/L	0.0002 mg/L	13:08:38
2	Tl 190.801†	27.8	38.7	0.0480 mg/L	0.0480 mg/L	13:08:18
2	V 292.402†	2255.1	110.2	-0.0006 mg/L	-0.0006 mg/L	13:08:38
2	Zn 213.857†	1067.2	-6.2	-0.0020 mg/L	-0.0020 mg/L	13:08:18

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2608639.7						2803.20	0.11%
Ag 328.068†	49.3	0.0003	mg/L	0.00007	0.0003	mg/L	0.00007	24.12%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	9.9	-0.0018	mg/L	0.00177	-0.0018	mg/L	0.00177	95.93%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	2.8	-0.0004	mg/L	0.00073	-0.0004	mg/L	0.00073	200.86%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	12.2	0.0083	mg/L	0.00488	0.0083	mg/L	0.00488	58.97%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	12.0	-0.0018	mg/L	0.00008	-0.0018	mg/L	0.00008	4.26%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-86.6	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	11.55%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	139.4	-0.0283	mg/L	0.00134	-0.0283	mg/L	0.00134	4.76%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	13.3	-0.0002	mg/L	0.00016	-0.0002	mg/L	0.00016	95.10%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-0.3	-0.0023	mg/L	0.00016	-0.0023	mg/L	0.00016	6.68%
QC value within limits for Co 228.616 Recovery = Not calculated								

Cr 267.716†	72.9	-0.0014 mg/L	0.00040	-0.0014 mg/L	0.00040	28.13%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-90.8	-0.0021 mg/L	0.00005	-0.0021 mg/L	0.00005	2.25%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204†	-83.1	-0.0091 mg/L	0.00012	-0.0091 mg/L	0.00012	1.37%
QC value within limits for Fe 238.204 Recovery = Not calculated						
Fe 234.349†	-28.9	-0.0087 mg/L	0.00002	-0.0087 mg/L	0.00002	0.24%
QC value within limits for Fe 234.349 Recovery = Not calculated						
Mg 279.077†	-71.4	-0.0145 mg/L	0.00045	-0.0145 mg/L	0.00045	3.14%
QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	-70.2	-0.0024 mg/L	0.00004	-0.0024 mg/L	0.00004	1.66%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	25.7	-0.0006 mg/L	0.00006	-0.0006 mg/L	0.00006	9.28%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 330.237†	23.2	0.4240 mg/L	0.06211	0.4240 mg/L	0.06211	14.65%
QC value within limits for Na 330.237 Recovery = Not calculated						
Ni 231.604†	7.7	-0.0022 mg/L	0.00003	-0.0022 mg/L	0.00003	1.45%
QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-5.7	-0.0022 mg/L	0.00008	-0.0022 mg/L	0.00008	3.75%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	4.5	-0.0008 mg/L	0.00202	-0.0008 mg/L	0.00202	258.80%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	0.0	-0.0042 mg/L	0.00514	-0.0042 mg/L	0.00514	122.49%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-31.6	-0.0166 mg/L	0.00027	-0.0166 mg/L	0.00027	1.62%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	190.5	0.0003 mg/L	0.00006	0.0003 mg/L	0.00006	24.69%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	39.3	0.0486 mg/L	0.00081	0.0486 mg/L	0.00081	1.68%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	75.4	-0.0008 mg/L	0.00020	-0.0008 mg/L	0.00020	26.15%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	4.1	-0.0019 mg/L	0.00016	-0.0019 mg/L	0.00016	8.53%
QC value within limits for Zn 213.857 Recovery = Not calculated						

QC Failed. Continue with analysis.

Sequence No.: 8
Sample ID: CRI1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/7/2006 1:10:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2618622.9	2618622.9					13:11:49
1	Ag 328.068†	7752.7	8270.9	0.0259	mg/L	0.0259	mg/L	13:11:54
1	Al 237.313†	1998.9	2279.8	0.2539	mg/L	0.2539	mg/L	13:12:14
1	As 188.979†	68.7	67.0	0.0512	mg/L	0.0512	mg/L	13:12:14
1	B 182.528†	43.2	74.3	0.0579	mg/L	0.0579	mg/L	13:12:14
1	Ba 233.527†	9312.2	9442.9	0.0507	mg/L	0.0507	mg/L	13:11:54
1	Be 313.107†	37071.0	31642.0	0.0051	mg/L	0.0051	mg/L	13:11:49
1	Ca 315.886†	81795.0	76437.9	0.4940	mg/L	0.4940	mg/L	13:11:54
1	Cd 228.802†	2450.6	2032.1	0.0244	mg/L	0.0244	mg/L	13:12:14
1	Co 228.616†	3153.6	3584.3	0.0489	mg/L	0.0489	mg/L	13:12:14
1	Cr 267.716†	9605.2	7853.0	0.0507	mg/L	0.0507	mg/L	13:11:54
1	Cu 324.752†	8667.9	7121.7	0.0489	mg/L	0.0489	mg/L	13:11:54
1	Fe 238.204†	35505.9	33534.7	0.2545	mg/L	0.2545	mg/L	13:11:54
1	Fe 234.349†	10676.3	10457.1	0.2532	mg/L	0.2532	mg/L	13:11:54
1	Mg 279.077†	11310.5	11167.6	0.5035	mg/L	0.5035	mg/L	13:11:54
1	Mn 257.610†	55155.4	53287.4	0.0504	mg/L	0.0504	mg/L	13:11:54
1	Mo 202.031†	686.5	678.9	0.0505	mg/L	0.0505	mg/L	13:12:14
1	Na 330.237†	3766.5	1215.6	2.600	mg/L	2.600	mg/L	13:11:54
1	Ni 231.604†	3427.4	2920.7	0.0503	mg/L	0.0503	mg/L	13:11:54
1	Pb 220.353†	365.1	455.8	0.0502	mg/L	0.0502	mg/L	13:12:14
1	Sb 206.836†	275.1	186.4	0.0518	mg/L	0.0518	mg/L	13:12:14
1	Se 196.026†	76.1	81.0	0.1054	mg/L	0.1054	mg/L	13:12:14
1	Sn 189.927†	255.2	142.9	0.0408	mg/L	0.0408	mg/L	13:12:14
1	Ti 337.279†	41136.9	39440.4	0.0513	mg/L	0.0513	mg/L	13:11:54

1	Tl 190.801†	50.0	60.6	0.0693 mg/L	0.0693 mg/L	13:12:14
1	V 292.402†	14646.9	12333.1	0.0506 mg/L	0.0506 mg/L	13:11:54
1	Zn 213.857†	5937.0	4796.6	0.0506 mg/L	0.0506 mg/L	13:11:54
2	Y 360.073	2620526.8	2620526.8			13:12:20
2	Ag 328.068†	7759.5	8272.2	0.0259 mg/L	0.0259 mg/L	13:12:26
2	Al 237.313†	1984.9	2264.5	0.2522 mg/L	0.2522 mg/L	13:12:46
2	As 188.979†	70.1	68.3	0.0523 mg/L	0.0523 mg/L	13:12:46
2	B 182.528†	37.5	68.7	0.0534 mg/L	0.0534 mg/L	13:12:46
2	Ba 233.527†	9241.7	9366.8	0.0503 mg/L	0.0503 mg/L	13:12:26
2	Be 313.107†	37088.6	31632.8	0.0051 mg/L	0.0051 mg/L	13:12:20
2	Ca 315.886†	81738.4	76323.5	0.4933 mg/L	0.4933 mg/L	13:12:26
2	Cd 228.802†	2462.6	2042.1	0.0245 mg/L	0.0245 mg/L	13:12:46
2	Co 228.616†	3181.4	3609.4	0.0493 mg/L	0.0493 mg/L	13:12:46
2	Cr 267.716†	9518.2	7760.2	0.0501 mg/L	0.0501 mg/L	13:12:26
2	Cu 324.752†	8613.6	7061.9	0.0484 mg/L	0.0484 mg/L	13:12:26
2	Fe 238.204†	35445.9	33450.1	0.2538 mg/L	0.2538 mg/L	13:12:26
2	Fe 234.349†	10632.9	10406.7	0.2520 mg/L	0.2520 mg/L	13:12:26
2	Mg 279.077†	11375.8	11223.9	0.5061 mg/L	0.5061 mg/L	13:12:26
2	Mn 257.610†	54957.2	53052.3	0.0502 mg/L	0.0502 mg/L	13:12:26
2	Mo 202.031†	699.2	691.0	0.0514 mg/L	0.0514 mg/L	13:12:46
2	Na 330.237†	3747.6	1194.2	2.561 mg/L	2.561 mg/L	13:12:26
2	Ni 231.604†	3384.0	2875.5	0.0495 mg/L	0.0495 mg/L	13:12:26
2	Pb 220.353†	372.6	463.0	0.0510 mg/L	0.0510 mg/L	13:12:46
2	Sb 206.836†	263.2	174.4	0.0483 mg/L	0.0483 mg/L	13:12:46
2	Se 196.026†	77.7	82.5	0.1074 mg/L	0.1074 mg/L	13:12:46
2	Sn 189.927†	250.1	137.7	0.0390 mg/L	0.0390 mg/L	13:12:46
2	Ti 337.279†	40969.8	39246.1	0.0511 mg/L	0.0511 mg/L	13:12:26
2	Tl 190.801†	58.4	68.8	0.0773 mg/L	0.0773 mg/L	13:12:46
2	V 292.402†	14813.8	12487.2	0.0512 mg/L	0.0512 mg/L	13:12:26
2	Zn 213.857†	5936.4	4791.7	0.0505 mg/L	0.0505 mg/L	13:12:26

Mean Data: CRI1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2619574.9						1346.26	0.05%
Ag 328.068†	8271.5	0.0259	mg/L	0.00000	0.0259	mg/L	0.00000	0.01%
QC value within limits for Ag 328.068 Recovery = 103.63%								
Al 237.313†	2272.1	0.2531	mg/L	0.00122	0.2531	mg/L	0.00122	0.48%
QC value within limits for Al 237.313 Recovery = 101.22%								
As 188.979†	67.7	0.0517	mg/L	0.00076	0.0517	mg/L	0.00076	1.46%
QC value within limits for As 188.979 Recovery = 103.43%								
B 182.528†	71.5	0.0556	mg/L	0.00317	0.0556	mg/L	0.00317	5.71%
QC value within limits for B 182.528 Recovery = 111.24%								
Ba 233.527†	9404.9	0.0505	mg/L	0.00030	0.0505	mg/L	0.00030	0.59%
QC value within limits for Ba 233.527 Recovery = 100.97%								
Be 313.107†	31637.4	0.0051	mg/L	0.00000	0.0051	mg/L	0.00000	0.02%
QC value within limits for Be 313.107 Recovery = 101.41%								
Ca 315.886†	76380.7	0.4936	mg/L	0.00055	0.4936	mg/L	0.00055	0.11%
QC value within limits for Ca 315.886 Recovery = 98.73%								
Cd 228.802†	2037.1	0.0245	mg/L	0.00008	0.0245	mg/L	0.00008	0.35%
QC value within limits for Cd 228.802 Recovery = 97.83%								
Co 228.616†	3596.9	0.0491	mg/L	0.00026	0.0491	mg/L	0.00026	0.52%
QC value within limits for Co 228.616 Recovery = 98.24%								
Cr 267.716†	7806.6	0.0504	mg/L	0.00044	0.0504	mg/L	0.00044	0.87%
QC value within limits for Cr 267.716 Recovery = 100.87%								
Cu 324.752†	7091.8	0.0486	mg/L	0.00030	0.0486	mg/L	0.00030	0.61%
QC value within limits for Cu 324.752 Recovery = 97.30%								
Fe 238.204†	33492.4	0.2541	mg/L	0.00047	0.2541	mg/L	0.00047	0.18%
QC value within limits for Fe 238.204 Recovery = 101.65%								
Fe 234.349†	10431.9	0.2526	mg/L	0.00089	0.2526	mg/L	0.00089	0.35%
QC value within limits for Fe 234.349 Recovery = 101.03%								
Mg 279.077†	11195.8	0.5048	mg/L	0.00184	0.5048	mg/L	0.00184	0.36%
QC value within limits for Mg 279.077 Recovery = 100.95%								
Mn 257.610†	53169.8	0.0503	mg/L	0.00016	0.0503	mg/L	0.00016	0.33%
QC value within limits for Mn 257.610 Recovery = 100.57%								
Mo 202.031†	685.0	0.0510	mg/L	0.00067	0.0510	mg/L	0.00067	1.31%
QC value within limits for Mo 202.031 Recovery = 101.94%								
Na 330.237†	1204.9	2.581	mg/L	0.0276	2.581	mg/L	0.0276	1.07%
QC value within limits for Na 330.237 Recovery = 103.23%								
Ni 231.604†	2898.1	0.0499	mg/L	0.00058	0.0499	mg/L	0.00058	1.16%

QC value within limits for Ni 231.604 Recovery = 99.83%

Pb 220.353†	459.4	0.0506 mg/L	0.00058	0.0506 mg/L	0.00058	1.14%

QC value within limits for Pb 220.353 Recovery = 101.23%

Sb 206.836†	180.4	0.0500 mg/L	0.00248	0.0500 mg/L	0.00248	4.95%

QC value within limits for Sb 206.836 Recovery = 100.04%

Se 196.026†	81.7	0.1064 mg/L	0.00140	0.1064 mg/L	0.00140	1.31%

QC value within limits for Se 196.026 Recovery = 106.40%

Sn 189.927†	140.3	0.0399 mg/L	0.00122	0.0399 mg/L	0.00122	3.06%

QC value within limits for Sn 189.927 Recovery = 79.79%

Ti 337.279†	39343.2	0.0512 mg/L	0.00018	0.0512 mg/L	0.00018	0.35%

QC value within limits for Ti 337.279 Recovery = 102.37%

Tl 190.801†	64.7	0.0733 mg/L	0.00564	0.0733 mg/L	0.00564	7.70%

QC value greater than the upper limit for Tl 190.801 Recovery = 146.59%

V 292.402†	12410.1	0.0509 mg/L	0.00045	0.0509 mg/L	0.00045	0.88%

QC value within limits for V 292.402 Recovery = 101.80%

Zn 213.857†	4794.2	0.0506 mg/L	0.00003	0.0506 mg/L	0.00003	0.07%

QC value within limits for Zn 213.857 Recovery = 101.11%

QC Failed. Continue with analysis.

Sequence No.: 9
Sample ID: CRI2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 6/7/2006 1:14:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2602355.9	2602355.9					13:15:59
1	Ag 328.068†	2604.0	3205.7	0.0101	mg/L	0.0101	mg/L	13:16:04
1	Al 237.313†	622.5	925.2	0.1013	mg/L	0.1013	mg/L	13:16:24
1	As 188.979†	28.7	27.7	0.0197	mg/L	0.0197	mg/L	13:16:24
1	B 182.528†	2.6	34.2	0.0258	mg/L	0.0258	mg/L	13:16:24
1	Ba 233.527†	3429.4	3658.3	0.0185	mg/L	0.0185	mg/L	13:16:24
1	Be 313.107†	17530.2	12465.0	0.0019	mg/L	0.0019	mg/L	13:15:59
1	Ca 315.886†	34121.4	29598.6	0.1734	mg/L	0.1734	mg/L	13:16:04
1	Cd 228.802†	1173.7	779.0	0.0092	mg/L	0.0092	mg/L	13:16:24
1	Co 228.616†	936.5	1401.9	0.0177	mg/L	0.0177	mg/L	13:16:24
1	Cr 267.716†	4802.8	3143.0	0.0192	mg/L	0.0192	mg/L	13:16:04
1	Cu 324.752†	4154.7	2693.2	0.0176	mg/L	0.0176	mg/L	13:16:04
1	Fe 238.204†	14618.7	13011.0	0.0935	mg/L	0.0935	mg/L	13:16:04
1	Fe 234.349†	4191.4	4082.9	0.0940	mg/L	0.0940	mg/L	13:16:04
1	Mg 279.077†	4413.5	4388.2	0.1910	mg/L	0.1910	mg/L	13:16:04
1	Mn 257.610†	22112.9	20813.5	0.0182	mg/L	0.0182	mg/L	13:16:04
1	Mo 202.031†	274.8	274.4	0.0188	mg/L	0.0188	mg/L	13:16:24
1	Na 330.237†	2971.5	449.3	1.202	mg/L	1.202	mg/L	13:16:04
1	Ni 231.604†	1578.7	1105.9	0.0176	mg/L	0.0176	mg/L	13:16:24
1	Pb 220.353†	70.6	165.6	0.0173	mg/L	0.0173	mg/L	13:16:24
1	Sb 206.836†	154.6	68.4	0.0177	mg/L	0.0177	mg/L	13:16:24
1	Se 196.026†	28.9	34.6	0.0425	mg/L	0.0425	mg/L	13:16:24
1	Sn 189.927†	169.6	59.5	0.0133	mg/L	0.0133	mg/L	13:16:24
1	Ti 337.279†	16796.9	15522.5	0.0202	mg/L	0.0202	mg/L	13:16:04
1	Tl 190.801†	24.1	35.1	0.0446	mg/L	0.0446	mg/L	13:16:24
1	V 292.402†	7020.2	4849.4	0.0192	mg/L	0.0192	mg/L	13:16:04
1	Zn 213.857†	2826.5	1744.2	0.0172	mg/L	0.0172	mg/L	13:16:24
2	Y 360.073	2578277.4	2578277.4					13:16:30
2	Ag 328.068†	2641.0	3266.9	0.0103	mg/L	0.0103	mg/L	13:16:35
2	Al 237.313†	597.9	906.4	0.0992	mg/L	0.0992	mg/L	13:16:56
2	As 188.979†	27.1	26.4	0.0186	mg/L	0.0186	mg/L	13:16:56
2	B 182.528†	2.4	34.0	0.0257	mg/L	0.0257	mg/L	13:16:56
2	Ba 233.527†	3449.8	3710.5	0.0188	mg/L	0.0188	mg/L	13:16:56
2	Be 313.107†	17382.8	12479.8	0.0019	mg/L	0.0019	mg/L	13:16:30
2	Ca 315.886†	34101.1	29894.7	0.1754	mg/L	0.1754	mg/L	13:16:35
2	Cd 228.802†	1192.3	808.6	0.0095	mg/L	0.0095	mg/L	13:16:56
2	Co 228.616†	958.1	1432.3	0.0181	mg/L	0.0181	mg/L	13:16:56
2	Cr 267.716†	4820.7	3205.5	0.0196	mg/L	0.0196	mg/L	13:16:35
2	Cu 324.752†	4097.5	2674.3	0.0174	mg/L	0.0174	mg/L	13:16:35
2	Fe 238.204†	14550.1	13077.8	0.0941	mg/L	0.0941	mg/L	13:16:35
2	Fe 234.349†	4147.5	4077.8	0.0939	mg/L	0.0939	mg/L	13:16:35

2	Mg 279.077†	4363.6	4379.1	0.1906 mg/L	0.1906 mg/L	13:16:35
2	Mn 257.610†	22175.0	21080.9	0.0185 mg/L	0.0185 mg/L	13:16:35
2	Mo 202.031†	271.2	273.3	0.0187 mg/L	0.0187 mg/L	13:16:56
2	Na 330.237†	2973.2	478.6	1.255 mg/L	1.255 mg/L	13:16:35
2	Ni 231.604†	1572.7	1114.6	0.0178 mg/L	0.0178 mg/L	13:16:56
2	Pb 220.353†	80.2	175.9	0.0184 mg/L	0.0184 mg/L	13:16:56
2	Sb 206.836†	155.5	70.7	0.0183 mg/L	0.0183 mg/L	13:16:56
2	Se 196.026†	21.5	27.4	0.0329 mg/L	0.0329 mg/L	13:16:56
2	Sn 189.927†	161.6	53.1	0.0112 mg/L	0.0112 mg/L	13:16:56
2	Ti 337.279†	16727.4	15608.6	0.0203 mg/L	0.0203 mg/L	13:16:35
2	Tl 190.801†	19.0	30.3	0.0399 mg/L	0.0399 mg/L	13:16:56
2	V 292.402†	7084.4	4978.9	0.0198 mg/L	0.0198 mg/L	13:16:35
2	Zn 213.857†	2842.3	1786.3	0.0176 mg/L	0.0176 mg/L	13:16:56

Mean Data: CRI2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2590316.6						17026.05	0.66%
Ag 328.068†	3236.3	0.0102	mg/L	0.00013	0.0102	mg/L	0.00013	1.32%
QC value within limits for Ag 328.068 Recovery = 102.21%								
Al 237.313†	915.8	0.1002	mg/L	0.00151	0.1002	mg/L	0.00151	1.51%
QC value within limits for Al 237.313 Recovery = 100.24%								
As 188.979†	27.1	0.0191	mg/L	0.00076	0.0191	mg/L	0.00076	3.98%
QC value within limits for As 188.979 Recovery = 95.67%								
B 182.528†	34.1	0.0258	mg/L	0.00010	0.0258	mg/L	0.00010	0.38%
QC value within limits for B 182.528 Recovery = 128.84%								
Ba 233.527†	3684.4	0.0187	mg/L	0.00021	0.0187	mg/L	0.00021	1.10%
QC value within limits for Ba 233.527 Recovery = 93.31%								
Be 313.107†	12472.4	0.0019	mg/L	0.00000	0.0019	mg/L	0.00000	0.09%
QC value within limits for Be 313.107 Recovery = 96.62%								
Ca 315.886†	29746.7	0.1744	mg/L	0.00143	0.1744	mg/L	0.00143	0.82%
QC value within limits for Ca 315.886 Recovery = 87.21%								
Cd 228.802†	793.8	0.0093	mg/L	0.00026	0.0093	mg/L	0.00026	2.77%
QC value within limits for Cd 228.802 Recovery = 93.34%								
Co 228.616†	1417.1	0.0179	mg/L	0.00031	0.0179	mg/L	0.00031	1.72%
QC value within limits for Co 228.616 Recovery = 89.66%								
Cr 267.716†	3174.3	0.0194	mg/L	0.00030	0.0194	mg/L	0.00030	1.53%
QC value within limits for Cr 267.716 Recovery = 96.83%								
Cu 324.752†	2683.8	0.0175	mg/L	0.00009	0.0175	mg/L	0.00009	0.54%
QC value within limits for Cu 324.752 Recovery = 87.48%								
Fe 238.204†	13044.4	0.0938	mg/L	0.00037	0.0938	mg/L	0.00037	0.40%
QC value within limits for Fe 238.204 Recovery = 93.80%								
Fe 234.349†	4080.4	0.0939	mg/L	0.00009	0.0939	mg/L	0.00009	0.10%
QC value within limits for Fe 234.349 Recovery = 93.94%								
Mg 279.077†	4383.6	0.1908	mg/L	0.00030	0.1908	mg/L	0.00030	0.16%
QC value within limits for Mg 279.077 Recovery = 95.41%								
Mn 257.610†	20947.2	0.0184	mg/L	0.00019	0.0184	mg/L	0.00019	1.02%
QC value within limits for Mn 257.610 Recovery = 91.85%								
Mo 202.031†	273.8	0.0188	mg/L	0.00006	0.0188	mg/L	0.00006	0.31%
QC value within limits for Mo 202.031 Recovery = 93.91%								
Na 330.237†	464.0	1.229	mg/L	0.0377	1.229	mg/L	0.0377	3.07%
QC value within limits for Na 330.237 Recovery = 122.86%								
Ni 231.604†	1110.3	0.0177	mg/L	0.00011	0.0177	mg/L	0.00011	0.63%
QC value within limits for Ni 231.604 Recovery = 88.54%								
Pb 220.353†	170.7	0.0178	mg/L	0.00082	0.0178	mg/L	0.00082	4.60%
QC value within limits for Pb 220.353 Recovery = 89.17%								
Sb 206.836†	69.6	0.0180	mg/L	0.00047	0.0180	mg/L	0.00047	2.63%
QC value within limits for Sb 206.836 Recovery = 89.96%								
Se 196.026†	31.0	0.0377	mg/L	0.00683	0.0377	mg/L	0.00683	18.11%
QC value within limits for Se 196.026 Recovery = 94.26%								
Sn 189.927†	56.3	0.0123	mg/L	0.00150	0.0123	mg/L	0.00150	12.22%
QC value less than the lower limit for Sn 189.927 Recovery = 61.34%								
Ti 337.279†	15565.6	0.0203	mg/L	0.00008	0.0203	mg/L	0.00008	0.39%
QC value within limits for Ti 337.279 Recovery = 101.28%								
Tl 190.801†	32.7	0.0422	mg/L	0.00331	0.0422	mg/L	0.00331	7.83%
QC value greater than the upper limit for Tl 190.801 Recovery = 211.18%								
V 292.402†	4914.2	0.0195	mg/L	0.00038	0.0195	mg/L	0.00038	1.97%
QC value within limits for V 292.402 Recovery = 97.51%								
Zn 213.857†	1765.3	0.0174	mg/L	0.00033	0.0174	mg/L	0.00033	1.88%
QC value within limits for Zn 213.857 Recovery = 86.91%								

QC Failed. Continue with analysis.

Sequence No.: 10
Sample ID: CRI3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 6/7/2006 1:18:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI3

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2578607.0	2578607.0					13:20:10
1	Ag 328.068†	1054.2	1676.3	0.0054	mg/L	0.0054	mg/L	13:20:15
1	Al 237.313†	189.8	497.2	0.0531	mg/L	0.0531	mg/L	13:20:35
1	As 188.979†	16.4	15.7	0.0100	mg/L	0.0100	mg/L	13:20:35
1	B 182.528†	-12.5	19.1	0.0138	mg/L	0.0138	mg/L	13:20:35
1	Ba 233.527†	1595.4	1851.6	0.0085	mg/L	0.0085	mg/L	13:20:35
1	Be 313.107†	11329.3	6410.6	0.0009	mg/L	0.0009	mg/L	13:20:10
1	Ca 315.886†	19308.4	15064.6	0.0739	mg/L	0.0739	mg/L	13:20:15
1	Cd 228.802†	779.6	394.9	0.0045	mg/L	0.0045	mg/L	13:20:35
1	Co 228.616†	241.9	714.4	0.0079	mg/L	0.0079	mg/L	13:20:35
1	Cr 267.716†	3187.4	1567.9	0.0086	mg/L	0.0086	mg/L	13:20:15
1	Cu 324.752†	2645.1	1218.2	0.0071	mg/L	0.0071	mg/L	13:20:15
1	Fe 238.204†	7980.6	6491.8	0.0424	mg/L	0.0424	mg/L	13:20:15
1	Fe 234.349†	2066.6	1991.7	0.0418	mg/L	0.0418	mg/L	13:20:35
1	Mg 279.077†	2156.5	2166.5	0.0886	mg/L	0.0886	mg/L	13:20:15
1	Mn 257.610†	11682.4	10562.0	0.0081	mg/L	0.0081	mg/L	13:20:15
1	Mo 202.031†	141.4	143.2	0.0086	mg/L	0.0086	mg/L	13:20:35
1	Na 330.237†	2686.8	191.2	0.7306	mg/L	0.7306	mg/L	13:20:15
1	Ni 231.604†	1009.5	549.9	0.0076	mg/L	0.0076	mg/L	13:20:35
1	Pb 220.353†	-11.7	83.8	0.0080	mg/L	0.0080	mg/L	13:20:35
1	Sb 206.836†	122.2	37.3	0.0087	mg/L	0.0087	mg/L	13:20:35
1	Se 196.026†	9.4	15.3	0.0164	mg/L	0.0164	mg/L	13:20:35
1	Sn 189.927†	148.3	39.7	0.0068	mg/L	0.0068	mg/L	13:20:35
1	Ti 337.279†	9021.1	7883.0	0.0103	mg/L	0.0103	mg/L	13:20:15
1	Tl 190.801†	15.6	26.8	0.0365	mg/L	0.0365	mg/L	13:20:35
1	V 292.402†	4619.8	2507.9	0.0094	mg/L	0.0094	mg/L	13:20:15
1	Zn 213.857†	1910.3	851.8	0.0074	mg/L	0.0074	mg/L	13:20:35
2	Y 360.073	2597969.0	2597969.0					13:20:41
2	Ag 328.068†	1047.6	1661.8	0.0053	mg/L	0.0053	mg/L	13:20:46
2	Al 237.313†	220.8	526.7	0.0565	mg/L	0.0565	mg/L	13:21:07
2	As 188.979†	14.1	13.3	0.0081	mg/L	0.0081	mg/L	13:21:07
2	B 182.528†	-15.9	15.8	0.0112	mg/L	0.0112	mg/L	13:21:07
2	Ba 233.527†	1582.2	1826.5	0.0083	mg/L	0.0083	mg/L	13:21:07
2	Be 313.107†	11288.7	6285.6	0.0009	mg/L	0.0009	mg/L	13:20:41
2	Ca 315.886†	19242.1	14854.5	0.0725	mg/L	0.0725	mg/L	13:20:46
2	Cd 228.802†	794.9	404.3	0.0046	mg/L	0.0046	mg/L	13:21:07
2	Co 228.616†	235.1	705.8	0.0078	mg/L	0.0078	mg/L	13:21:07
2	Cr 267.716†	3263.1	1619.4	0.0089	mg/L	0.0089	mg/L	13:20:46
2	Cu 324.752†	2639.9	1193.2	0.0070	mg/L	0.0070	mg/L	13:20:46
2	Fe 238.204†	8000.8	6452.3	0.0421	mg/L	0.0421	mg/L	13:20:46
2	Fe 234.349†	2080.1	1989.7	0.0417	mg/L	0.0417	mg/L	13:21:07
2	Mg 279.077†	2129.3	2123.3	0.0867	mg/L	0.0867	mg/L	13:20:46
2	Mn 257.610†	11646.9	10439.5	0.0080	mg/L	0.0080	mg/L	13:20:46
2	Mo 202.031†	147.9	148.6	0.0090	mg/L	0.0090	mg/L	13:21:07
2	Na 330.237†	2659.0	143.4	0.6434	mg/L	0.6434	mg/L	13:20:46
2	Ni 231.604†	995.0	527.9	0.0072	mg/L	0.0072	mg/L	13:21:07
2	Pb 220.353†	-0.5	95.0	0.0092	mg/L	0.0092	mg/L	13:21:07
2	Sb 206.836†	129.4	43.6	0.0105	mg/L	0.0105	mg/L	13:21:07
2	Se 196.026†	7.2	13.1	0.0135	mg/L	0.0135	mg/L	13:21:07
2	Sn 189.927†	125.0	15.4	-0.0012	mg/L	-0.0012	mg/L	13:21:07
2	Ti 337.279†	9068.7	7862.9	0.0102	mg/L	0.0102	mg/L	13:20:46
2	Tl 190.801†	10.1	21.2	0.0311	mg/L	0.0311	mg/L	13:21:07
2	V 292.402†	4547.6	2401.5	0.0090	mg/L	0.0090	mg/L	13:20:46
2	Zn 213.857†	1894.6	821.9	0.0071	mg/L	0.0071	mg/L	13:21:07

Mean Data: CRI3

	Mean Corrected	Calib	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 360.073	2588288.0						13691.03	0.53%
Ag 328.068†	1669.0	0.0053	mg/L	0.00003	0.0053	mg/L	0.00003	0.60%
QC value within limits for Ag 328.068 Recovery = 106.77%								
Al 237.313†	512.0	0.0548	mg/L	0.00237	0.0548	mg/L	0.00237	4.32%
QC value within limits for Al 237.313 Recovery = 109.57%								
As 188.979†	14.5	0.0090	mg/L	0.00133	0.0090	mg/L	0.00133	14.74%
QC value within limits for As 188.979 Recovery = 90.49%								
B 182.528†	17.5	0.0125	mg/L	0.00186	0.0125	mg/L	0.00186	14.89%
QC value within limits for B 182.528 Recovery = 124.80%								
Ba 233.527†	1839.0	0.0084	mg/L	0.00010	0.0084	mg/L	0.00010	1.17%
QC value within limits for Ba 233.527 Recovery = 83.95%								
Be 313.107†	6348.1	0.0009	mg/L	0.00001	0.0009	mg/L	0.00001	1.55%
QC value within limits for Be 313.107 Recovery = 92.95%								
Ca 315.886†	14959.6	0.0732	mg/L	0.00102	0.0732	mg/L	0.00102	1.39%
QC value within limits for Ca 315.886 Recovery = 73.20%								
Cd 228.802†	399.6	0.0045	mg/L	0.00009	0.0045	mg/L	0.00009	1.89%
QC value within limits for Cd 228.802 Recovery = 90.74%								
Co 228.616†	710.1	0.0078	mg/L	0.00009	0.0078	mg/L	0.00009	1.12%
QC value within limits for Co 228.616 Recovery = 78.17%								
Cr 267.716†	1593.7	0.0088	mg/L	0.00024	0.0088	mg/L	0.00024	2.78%
QC value within limits for Cr 267.716 Recovery = 87.66%								
Cu 324.752†	1205.7	0.0070	mg/L	0.00012	0.0070	mg/L	0.00012	1.77%
QC value within limits for Cu 324.752 Recovery = 70.50%								
Fe 238.204†	6472.1	0.0423	mg/L	0.00022	0.0423	mg/L	0.00022	0.52%
QC value within limits for Fe 238.204 Recovery = 84.54%								
Fe 234.349†	1990.7	0.0417	mg/L	0.00003	0.0417	mg/L	0.00003	0.08%
QC value within limits for Fe 234.349 Recovery = 83.48%								
Mg 279.077†	2144.9	0.0876	mg/L	0.00141	0.0876	mg/L	0.00141	1.61%
QC value within limits for Mg 279.077 Recovery = 87.65%								
Mn 257.610†	10500.8	0.0080	mg/L	0.00009	0.0080	mg/L	0.00009	1.07%
QC value within limits for Mn 257.610 Recovery = 80.24%								
Mo 202.031†	145.9	0.0088	mg/L	0.00030	0.0088	mg/L	0.00030	3.42%
QC value within limits for Mo 202.031 Recovery = 87.64%								
Na 330.237†	167.3	0.6870	mg/L	0.06165	0.6870	mg/L	0.06165	8.97%
QC value greater than the upper limit for Na 330.237 Recovery = 137.40%								
Ni 231.604†	538.9	0.0074	mg/L	0.00028	0.0074	mg/L	0.00028	3.77%
QC value within limits for Ni 231.604 Recovery = 74.16%								
Pb 220.353†	89.4	0.0086	mg/L	0.00090	0.0086	mg/L	0.00090	10.46%
QC value within limits for Pb 220.353 Recovery = 85.87%								
Sb 206.836†	40.5	0.0096	mg/L	0.00129	0.0096	mg/L	0.00129	13.37%
QC value within limits for Sb 206.836 Recovery = 96.17%								
Se 196.026†	14.2	0.0150	mg/L	0.00210	0.0150	mg/L	0.00210	14.06%
QC value within limits for Se 196.026 Recovery = 74.77%								
Sn 189.927†	27.5	0.0028	mg/L	0.00564	0.0028	mg/L	0.00564	200.75%
QC value less than the lower limit for Sn 189.927 Recovery = 28.12%								
Ti 337.279†	7872.9	0.0102	mg/L	0.00002	0.0102	mg/L	0.00002	0.18%
QC value within limits for Ti 337.279 Recovery = 102.49%								
Tl 190.801†	24.0	0.0338	mg/L	0.00382	0.0338	mg/L	0.00382	11.31%
QC value greater than the upper limit for Tl 190.801 Recovery = 338.06%								
V 292.402†	2454.7	0.0092	mg/L	0.00031	0.0092	mg/L	0.00031	3.38%
QC value within limits for V 292.402 Recovery = 91.97%								
Zn 213.857†	836.9	0.0072	mg/L	0.00023	0.0072	mg/L	0.00023	3.20%
QC value within limits for Zn 213.857 Recovery = 72.18%								

QC Failed. Continue with analysis.

Sequence No.: 11
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 106
Date Collected: 6/7/2006 1:22:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2492803.7	2492803.7					13:24:34
1	Ag 328.068†	-1388.8	-820.1	-0.0024	mg/L	-0.0024	mg/L	13:24:40
1	Al 237.313†	2188102.8	2268775.2	257.0	mg/L	257.0	mg/L	13:24:34
1	As 188.979†	14.3	14.0	0.0087	mg/L	0.0087	mg/L	13:25:00

1	B 182.528†	0.2	31.9	0.0240 mg/L	0.0240 mg/L	13:25:00
1	Ba 233.527†	-177.0	69.2	-0.0015 mg/L	-0.0015 mg/L	13:25:00
1	Be 313.107†	1959.4	-2912.7	-0.0003 mg/L	-0.0003 mg/L	13:24:40
1	Ca 315.886†	34431492.8	35691817.4	244.3 mg/L	244.3 mg/L	13:24:27
1	Cd 228.802†	519.2	151.8	-0.0004 mg/L	-0.0004 mg/L	13:25:00
1	Co 228.616†	-446.6	8.9	-0.0022 mg/L	-0.0022 mg/L	13:25:00
1	Cr 267.716†	1266.9	-313.1	0.0006 mg/L	0.0006 mg/L	13:25:00
1	Cu 324.752†	441.1	-975.5	-0.0084 mg/L	-0.0084 mg/L	13:24:40
1	Fe 238.204†	10651026.5	11040714.4	86.53 mg/L	86.53 mg/L	13:24:27
1	Fe 234.349†	3578680.5	3710040.0	92.83 mg/L	92.83 mg/L	13:24:34
1	Mg 279.077†	5095531.5	5282687.1	243.4 mg/L	243.4 mg/L	13:24:34
1	Mn 257.610†	4930.0	3964.7	0.0047 mg/L	0.0047 mg/L	13:24:40
1	Mo 202.031†	-222.6	-229.4	-0.0141 mg/L	-0.0141 mg/L	13:25:00
1	Na 330.237†	2405.3	-8.0	0.7465 mg/L	0.7465 mg/L	13:24:40
1	Ni 231.604†	542.1	100.2	-0.0005 mg/L	-0.0005 mg/L	13:25:00
1	Pb 220.353†	-395.3	-314.3	-0.0197 mg/L	-0.0197 mg/L	13:25:00
1	Sb 206.836†	71.2	-11.3	-0.0053 mg/L	-0.0053 mg/L	13:25:00
1	Se 196.026†	-15.0	-9.6	-0.0173 mg/L	-0.0173 mg/L	13:25:00
1	Sn 189.927†	170.2	67.5	0.0159 mg/L	0.0159 mg/L	13:25:00
1	Ti 337.279†	5553.0	4598.7	0.0060 mg/L	0.0060 mg/L	13:24:40
1	Tl 190.801†	-17.0	-6.4	0.0043 mg/L	0.0043 mg/L	13:25:00
1	V 292.402†	3299.4	1298.4	0.0043 mg/L	0.0043 mg/L	13:25:00
1	Zn 213.857†	3335.1	2394.9	0.0244 mg/L	0.0244 mg/L	13:25:00
2	Y 360.073	2485227.3	2485227.3			13:25:20
2	Ag 328.068†	-1331.0	-764.4	-0.0022 mg/L	-0.0022 mg/L	13:25:25
2	Al 237.313†	2181641.5	2268971.8	257.0 mg/L	257.0 mg/L	13:25:20
2	As 188.979†	12.1	11.8	0.0069 mg/L	0.0069 mg/L	13:25:46
2	B 182.528†	6.1	38.0	0.0289 mg/L	0.0289 mg/L	13:25:46
2	Ba 233.527†	-181.2	64.2	-0.0015 mg/L	-0.0015 mg/L	13:25:46
2	Be 313.107†	2020.1	-2843.3	-0.0003 mg/L	-0.0003 mg/L	13:25:25
2	Ca 315.886†	34481948.6	35853108.5	245.4 mg/L	245.4 mg/L	13:25:12
2	Cd 228.802†	506.2	139.9	-0.0006 mg/L	-0.0006 mg/L	13:25:46
2	Co 228.616†	-449.7	4.3	-0.0023 mg/L	-0.0023 mg/L	13:25:46
2	Cr 267.716†	1219.2	-358.8	0.0003 mg/L	0.0003 mg/L	13:25:46
2	Cu 324.752†	445.6	-969.4	-0.0083 mg/L	-0.0083 mg/L	13:25:25
2	Fe 238.204†	10665685.7	11089621.5	86.91 mg/L	86.91 mg/L	13:25:12
2	Fe 234.349†	3568808.2	3711084.6	92.86 mg/L	92.86 mg/L	13:25:20
2	Mg 279.077†	5086811.9	5289724.4	243.7 mg/L	243.7 mg/L	13:25:20
2	Mn 257.610†	4856.1	3903.4	0.0046 mg/L	0.0046 mg/L	13:25:25
2	Mo 202.031†	-208.7	-215.6	-0.0130 mg/L	-0.0130 mg/L	13:25:46
2	Na 330.237†	2469.9	66.8	0.8832 mg/L	0.8832 mg/L	13:25:25
2	Ni 231.604†	537.5	97.1	-0.0005 mg/L	-0.0005 mg/L	13:25:46
2	Pb 220.353†	-415.3	-336.4	-0.0222 mg/L	-0.0222 mg/L	13:25:46
2	Sb 206.836†	53.8	-29.2	-0.0106 mg/L	-0.0106 mg/L	13:25:46
2	Se 196.026†	-16.6	-11.4	-0.0196 mg/L	-0.0196 mg/L	13:25:46
2	Sn 189.927†	161.9	59.5	0.0133 mg/L	0.0133 mg/L	13:25:46
2	Ti 337.279†	5542.4	4605.3	0.0060 mg/L	0.0060 mg/L	13:25:25
2	Tl 190.801†	-8.4	2.5	0.0130 mg/L	0.0130 mg/L	13:25:46
2	V 292.402†	3311.5	1321.4	0.0044 mg/L	0.0044 mg/L	13:25:46
2	Zn 213.857†	3337.2	2407.6	0.0246 mg/L	0.0246 mg/L	13:25:46

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2489015.5						5357.34	0.22%
Ag 328.068†	-792.3	-0.0023	mg/L	0.00012	-0.0023	mg/L	0.00012	5.27%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	2268873.5	257.0	mg/L	0.02	257.0	mg/L	0.02	0.01%
QC value within limits for Al 237.313 Recovery = 102.80%								
As 188.979†	12.9	0.0078	mg/L	0.00127	0.0078	mg/L	0.00127	16.23%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	34.9	0.0264	mg/L	0.00344	0.0264	mg/L	0.00344	13.03%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	66.7	-0.0015	mg/L	0.00002	-0.0015	mg/L	0.00002	1.35%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-2878.0	-0.0003	mg/L	0.00001	-0.0003	mg/L	0.00001	2.66%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	35772463.0	244.8	mg/L	0.78	244.8	mg/L	0.78	0.32%
QC value within limits for Ca 315.886 Recovery = 97.93%								
Cd 228.802†	145.8	-0.0005	mg/L	0.00010	-0.0005	mg/L	0.00010	19.40%

	QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	6.6	-0.0023 mg/L	0.00005	-0.0023 mg/L	0.00005	2.05%
	QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-335.9	0.0005 mg/L	0.00022	0.0005 mg/L	0.00022	46.03%
	QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-972.5	-0.0083 mg/L	0.00003	-0.0083 mg/L	0.00003	0.37%
	QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 238.204†	11065167.9	86.72 mg/L	0.271	86.72 mg/L	0.271	0.31%
	QC value within limits for Fe 238.204 Recovery = 86.72%						
Fe 234.349†	3710562.3	92.85 mg/L	0.018	92.85 mg/L	0.018	0.02%
	QC value within limits for Fe 234.349 Recovery = 92.85%						
Mg 279.077†	5286205.7	243.6 mg/L	0.23	243.6 mg/L	0.23	0.09%
	QC value within limits for Mg 279.077 Recovery = 97.43%						
Mn 257.610†	3934.1	0.0047 mg/L	0.00004	0.0047 mg/L	0.00004	0.90%
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	-222.5	-0.0136 mg/L	0.00076	-0.0136 mg/L	0.00076	5.62%
	QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 330.237†	29.4	0.8149 mg/L	0.09670	0.8149 mg/L	0.09670	11.87%
	QC value within limits for Na 330.237 Recovery = Not calculated						
Ni 231.604†	98.6	-0.0005 mg/L	0.00004	-0.0005 mg/L	0.00004	7.69%
	QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	-325.4	-0.0209 mg/L	0.00176	-0.0209 mg/L	0.00176	8.42%
	QC value less than the lower limit for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-20.2	-0.0080 mg/L	0.00371	-0.0080 mg/L	0.00371	46.62%
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-10.5	-0.0185 mg/L	0.00167	-0.0185 mg/L	0.00167	9.05%
	QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	63.5	0.0146 mg/L	0.00187	0.0146 mg/L	0.00187	12.83%
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	4602.0	0.0060 mg/L	0.00001	0.0060 mg/L	0.00001	0.10%
	QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	-2.0	0.0086 mg/L	0.00613	0.0086 mg/L	0.00613	71.12%
	QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	1309.9	0.0043 mg/L	0.00007	0.0043 mg/L	0.00007	1.53%
	QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	2401.3	0.0245 mg/L	0.00010	0.0245 mg/L	0.00010	0.41%
	QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.							

Sequence No.: 12
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 105
Date Collected: 6/7/2006 1:27:24 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2494958.4	2494958.4					13:29:12
1	Ag 328.068†	163574.0	170055.0	0.5298	mg/L	0.5298	mg/L	13:29:18
1	Al 237.313†	2173482.4	2251671.8	255.1	mg/L	255.1	mg/L	13:29:12
1	As 188.979†	10.2	9.8	0.0052	mg/L	0.0052	mg/L	13:29:38
1	B 182.528†	9.3	41.2	0.0315	mg/L	0.0315	mg/L	13:29:38
1	Ba 233.527†	42376.1	44147.2	0.2437	mg/L	0.2437	mg/L	13:29:18
1	Be 313.107†	1520707.3	1570254.9	0.2572	mg/L	0.2572	mg/L	13:29:12
1	Ca 315.886†	34409138.8	35637835.5	243.9	mg/L	243.9	mg/L	13:29:04
1	Cd 228.802†	38246.4	39230.4	0.4790	mg/L	0.4790	mg/L	13:29:18
1	Co 228.616†	14860.3	15864.7	0.2250	mg/L	0.2250	mg/L	13:29:38
1	Cr 267.716†	36830.7	36523.9	0.2476	mg/L	0.2476	mg/L	13:29:18
1	Cu 324.752†	34492.3	34295.5	0.2408	mg/L	0.2408	mg/L	13:29:18
1	Fe 238.204†	10653121.9	11033348.8	86.47	mg/L	86.47	mg/L	13:29:04
1	Fe 234.349†	3564779.3	3692436.6	92.39	mg/L	92.39	mg/L	13:29:12
1	Mg 279.077†	5074628.9	5256473.4	242.2	mg/L	242.2	mg/L	13:29:12
1	Mn 257.610†	242725.5	250276.7	0.2486	mg/L	0.2486	mg/L	13:29:18
1	Mo 202.031†	-221.6	-228.1	-0.0139	mg/L	-0.0139	mg/L	13:29:38
1	Na 330.237†	2440.0	25.9	0.7744	mg/L	0.7744	mg/L	13:29:18
1	Ni 231.604†	25317.3	25762.7	0.4620	mg/L	0.4620	mg/L	13:29:38
1	Pb 220.353†	3664.0	3890.8	0.4559	mg/L	0.4559	mg/L	13:29:38
1	Sb 206.836†	63.6	-19.3	-0.0107	mg/L	-0.0107	mg/L	13:29:38

1	Se 196.026†	-14.3	-8.9	-0.0163 mg/L	-0.0163 mg/L	13:29:38
1	Sn 189.927†	137.1	33.1	0.0046 mg/L	0.0046 mg/L	13:29:38
1	Ti 337.279†	5429.8	4466.1	0.0058 mg/L	0.0058 mg/L	13:29:18
1	Tl 190.801†	-9.6	1.3	0.0111 mg/L	0.0111 mg/L	13:29:38
1	V 292.402†	60752.4	60807.1	0.2538 mg/L	0.2538 mg/L	13:29:18
1	Zn 213.857†	45021.8	45572.3	0.4970 mg/L	0.4970 mg/L	13:29:18
2	Y 360.073	2484463.2	2484463.2			13:29:59
2	Ag 328.068†	163795.8	171001.5	0.5327 mg/L	0.5327 mg/L	13:30:04
2	Al 237.313†	2161362.7	2248575.4	254.7 mg/L	254.7 mg/L	13:29:59
2	As 188.979†	10.1	9.8	0.0051 mg/L	0.0051 mg/L	13:30:25
2	B 182.528†	4.8	36.6	0.0278 mg/L	0.0278 mg/L	13:30:25
2	Ba 233.527†	42302.3	44255.8	0.2444 mg/L	0.2444 mg/L	13:30:04
2	Be 313.107†	1515186.6	1571166.3	0.2573 mg/L	0.2573 mg/L	13:29:59
2	Ca 315.886†	34461680.4	35843053.9	245.3 mg/L	245.3 mg/L	13:29:51
2	Cd 228.802†	38343.8	39499.1	0.4823 mg/L	0.4823 mg/L	13:30:04
2	Co 228.616†	14860.4	15929.9	0.2259 mg/L	0.2259 mg/L	13:30:25
2	Cr 267.716†	36919.1	36776.9	0.2493 mg/L	0.2493 mg/L	13:30:04
2	Cu 324.752†	34524.5	34479.9	0.2421 mg/L	0.2421 mg/L	13:30:04
2	Fe 238.204†	10663525.3	11090785.5	86.92 mg/L	86.92 mg/L	13:29:51
2	Fe 234.349†	3553868.5	3696685.6	92.50 mg/L	92.50 mg/L	13:29:59
2	Mg 279.077†	5063831.0	5267446.4	242.7 mg/L	242.7 mg/L	13:29:59
2	Mn 257.610†	243021.0	251646.2	0.2500 mg/L	0.2500 mg/L	13:30:04
2	Mo 202.031†	-227.5	-235.2	-0.0144 mg/L	-0.0144 mg/L	13:30:25
2	Na 330.237†	2430.4	26.5	0.7756 mg/L	0.7756 mg/L	13:30:04
2	Ni 231.604†	25326.9	25883.4	0.4641 mg/L	0.4641 mg/L	13:30:25
2	Pb 220.353†	3696.4	3940.6	0.4615 mg/L	0.4615 mg/L	13:30:25
2	Sb 206.836†	67.3	-15.1	-0.0095 mg/L	-0.0095 mg/L	13:30:25
2	Se 196.026†	-16.4	-11.1	-0.0193 mg/L	-0.0193 mg/L	13:30:25
2	Sn 189.927†	150.2	47.3	0.0093 mg/L	0.0093 mg/L	13:30:25
2	Ti 337.279†	5441.6	4502.1	0.0059 mg/L	0.0059 mg/L	13:30:04
2	Tl 190.801†	0.8	12.1	0.0216 mg/L	0.0216 mg/L	13:30:25
2	V 292.402†	60711.9	61030.8	0.2547 mg/L	0.2547 mg/L	13:30:04
2	Zn 213.857†	45309.3	46068.4	0.5024 mg/L	0.5024 mg/L	13:30:04

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2489710.8						7421.23	0.30%
Ag 328.068†	170528.3	0.5312	mg/L	0.00208	0.5312	mg/L	0.00208	0.39%
QC value within limits for Ag 328.068 Recovery = 106.25%								
Al 237.313†	2250123.6	254.9	mg/L	0.25	254.9	mg/L	0.25	0.10%
QC value within limits for Al 237.313 Recovery = 101.95%								
As 188.979†	9.8	0.0052	mg/L	0.00002	0.0052	mg/L	0.00002	0.33%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	38.9	0.0296	mg/L	0.00261	0.0296	mg/L	0.00261	8.82%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	44201.5	0.2441	mg/L	0.00043	0.2441	mg/L	0.00043	0.18%
QC value within limits for Ba 233.527 Recovery = 97.62%								
Be 313.107†	1570710.6	0.2572	mg/L	0.00011	0.2572	mg/L	0.00011	0.04%
QC value within limits for Be 313.107 Recovery = 102.89%								
Ca 315.886†	35740444.7	244.6	mg/L	0.99	244.6	mg/L	0.99	0.41%
QC value within limits for Ca 315.886 Recovery = 97.84%								
Cd 228.802†	39364.7	0.4807	mg/L	0.00233	0.4807	mg/L	0.00233	0.48%
QC value within limits for Cd 228.802 Recovery = 96.13%								
Co 228.616†	15897.3	0.2254	mg/L	0.00066	0.2254	mg/L	0.00066	0.29%
QC value within limits for Co 228.616 Recovery = 90.18%								
Cr 267.716†	36650.4	0.2484	mg/L	0.00120	0.2484	mg/L	0.00120	0.48%
QC value within limits for Cr 267.716 Recovery = 99.37%								
Cu 324.752†	34387.7	0.2415	mg/L	0.00092	0.2415	mg/L	0.00092	0.38%
QC value within limits for Cu 324.752 Recovery = 96.59%								
Fe 238.204†	11062067.2	86.69	mg/L	0.318	86.69	mg/L	0.318	0.37%
QC value within limits for Fe 238.204 Recovery = 86.69%								
Fe 234.349†	3694561.1	92.44	mg/L	0.075	92.44	mg/L	0.075	0.08%
QC value within limits for Fe 234.349 Recovery = 92.44%								
Mg 279.077†	5261959.9	242.5	mg/L	0.36	242.5	mg/L	0.36	0.15%
QC value within limits for Mg 279.077 Recovery = 96.98%								
Mn 257.610†	250961.5	0.2493	mg/L	0.00096	0.2493	mg/L	0.00096	0.39%
QC value within limits for Mn 257.610 Recovery = 99.72%								
Mo 202.031†	-231.6	-0.0141	mg/L	0.00039	-0.0141	mg/L	0.00039	2.73%
QC value within limits for Mo 202.031 Recovery = Not calculated								

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Na 330.237†              26.2      0.7750 mg/L       0.00083      0.7750 mg/L       0.00083   0.11%
   QC value within limits for Na 330.237  Recovery = Not calculated
Ni 231.604†           25823.0      0.4630 mg/L       0.00154      0.4630 mg/L       0.00154   0.33%
   QC value within limits for Ni 231.604  Recovery = 92.61%
Pb 220.353†            3915.7      0.4587 mg/L       0.00396      0.4587 mg/L       0.00396   0.86%
   QC value within limits for Pb 220.353  Recovery = 91.74%
Sb 206.836†             -17.2     -0.0101 mg/L       0.00085     -0.0101 mg/L       0.00085   8.37%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†             -10.0     -0.0178 mg/L       0.00213     -0.0178 mg/L       0.00213  11.98%
   QC value within limits for Se 196.026  Recovery = Not calculated
Sn 189.927†              40.2      0.0070 mg/L       0.00331      0.0070 mg/L       0.00331  47.53%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Ti 337.279†            4484.1      0.0058 mg/L       0.00003      0.0058 mg/L       0.00003   0.57%
   QC value within limits for Ti 337.279  Recovery = Not calculated
Tl 190.801†               6.7      0.0164 mg/L       0.00737      0.0164 mg/L       0.00737  45.07%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 292.402†            60919.0      0.2542 mg/L       0.00067      0.2542 mg/L       0.00067   0.26%
   QC value within limits for V 292.402  Recovery = 101.70%
Zn 213.857†           45820.4      0.4997 mg/L       0.00385      0.4997 mg/L       0.00385   0.77%
   QC value within limits for Zn 213.857  Recovery = 99.94%
All analyte(s) passed QC.
```

Sequence No.: 13
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/7/2006 1:32:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2601204.3	2601204.3					13:33:36
1	Ag 328.068†	79970.8	80072.6	0.2496	mg/L	0.2496	mg/L	13:33:41
1	Al 237.313†	21924.2	22089.2	2.486	mg/L	2.486	mg/L	13:33:41
1	As 188.979†	633.5	628.6	0.5018	mg/L	0.5018	mg/L	13:34:01
1	B 182.528†	599.4	627.2	0.4993	mg/L	0.4993	mg/L	13:34:01
1	Ba 233.527†	90111.1	89780.2	0.4976	mg/L	0.4976	mg/L	13:33:41
1	Be 313.107†	315307.5	308321.7	0.0504	mg/L	0.0504	mg/L	13:33:36
1	Ca 315.886†	751752.9	742598.2	5.054	mg/L	5.054	mg/L	13:33:36
1	Cd 228.802†	20919.9	20397.9	0.2479	mg/L	0.2479	mg/L	13:33:41
1	Co 228.616†	34840.0	35086.3	0.4997	mg/L	0.4997	mg/L	13:33:41
1	Cr 267.716†	76795.5	74671.6	0.4989	mg/L	0.4989	mg/L	13:33:41
1	Cu 324.752†	71838.9	69940.9	0.4928	mg/L	0.4928	mg/L	13:33:41
1	Fe 238.204†	327266.0	323640.2	2.529	mg/L	2.529	mg/L	13:33:41
1	Fe 234.349†	102193.5	101452.2	2.526	mg/L	2.526	mg/L	13:33:41
1	Mg 279.077†	109648.2	108943.3	5.010	mg/L	5.010	mg/L	13:33:41
1	Mn 257.610†	512221.5	507758.3	0.5005	mg/L	0.5005	mg/L	13:33:41
1	Mo 202.031†	6474.6	6434.1	0.5011	mg/L	0.5011	mg/L	13:34:01
1	Na 330.237†	15577.6	12975.1	24.07	mg/L	24.07	mg/L	13:33:41
1	Ni 231.604†	28521.3	27874.8	0.4998	mg/L	0.4998	mg/L	13:33:41
1	Pb 220.353†	4384.2	4451.3	0.5041	mg/L	0.5041	mg/L	13:34:01
1	Sb 206.836†	1821.9	1725.0	0.4961	mg/L	0.4961	mg/L	13:34:01
1	Se 196.026†	744.9	745.9	1.005	mg/L	1.005	mg/L	13:34:01
1	Sn 189.927†	1673.2	1553.4	0.5045	mg/L	0.5045	mg/L	13:34:01
1	Ti 337.279†	386870.6	383207.1	0.4985	mg/L	0.4985	mg/L	13:33:41
1	Tl 190.801†	442.5	450.9	0.4478	mg/L	0.4478	mg/L	13:34:01
1	V 292.402†	122955.6	120037.2	0.5017	mg/L	0.5017	mg/L	13:33:41
1	Zn 213.857†	46944.7	45578.0	0.4971	mg/L	0.4971	mg/L	13:33:41
2	Y 360.073	2596459.6	2596459.6					13:34:07
2	Ag 328.068†	80101.5	80347.9	0.2504	mg/L	0.2504	mg/L	13:34:13
2	Al 237.313†	21962.2	22166.8	2.495	mg/L	2.495	mg/L	13:34:13
2	As 188.979†	637.1	633.4	0.5056	mg/L	0.5056	mg/L	13:34:33
2	B 182.528†	594.1	623.0	0.4959	mg/L	0.4959	mg/L	13:34:33
2	Ba 233.527†	90261.0	90093.0	0.4993	mg/L	0.4993	mg/L	13:34:13
2	Be 313.107†	314789.7	308378.8	0.0504	mg/L	0.0504	mg/L	13:34:07
2	Ca 315.886†	751377.9	743589.7	5.061	mg/L	5.061	mg/L	13:34:07
2	Cd 228.802†	20934.0	20449.9	0.2485	mg/L	0.2485	mg/L	13:34:13
2	Co 228.616†	34903.3	35212.5	0.5015	mg/L	0.5015	mg/L	13:34:13
2	Cr 267.716†	77041.2	75055.6	0.5014	mg/L	0.5014	mg/L	13:34:13

2	Cu 324.752†	72454.3	70683.9	0.4981 mg/L	0.4981 mg/L	13:34:13
2	Fe 238.204†	326573.0	323544.6	2.528 mg/L	2.528 mg/L	13:34:13
2	Fe 234.349†	101983.7	101428.9	2.526 mg/L	2.526 mg/L	13:34:13
2	Mg 279.077†	109768.6	109262.2	5.024 mg/L	5.024 mg/L	13:34:13
2	Mn 257.610†	513238.4	509700.3	0.5025 mg/L	0.5025 mg/L	13:34:13
2	Mo 202.031†	6472.0	6443.2	0.5018 mg/L	0.5018 mg/L	13:34:33
2	Na 330.237†	15699.2	13124.4	24.34 mg/L	24.34 mg/L	13:34:13
2	Ni 231.604†	28547.9	27953.1	0.5012 mg/L	0.5012 mg/L	13:34:13
2	Pb 220.353†	4377.3	4452.4	0.5042 mg/L	0.5042 mg/L	13:34:33
2	Sb 206.836†	1805.3	1711.7	0.4922 mg/L	0.4922 mg/L	13:34:33
2	Se 196.026†	742.8	745.3	1.004 mg/L	1.004 mg/L	13:34:33
2	Sn 189.927†	1659.5	1542.8	0.5010 mg/L	0.5010 mg/L	13:34:33
2	Ti 337.279†	387186.2	384223.7	0.4998 mg/L	0.4998 mg/L	13:34:13
2	Tl 190.801†	456.8	465.9	0.4624 mg/L	0.4624 mg/L	13:34:33
2	V 292.402†	123267.6	120571.0	0.5040 mg/L	0.5040 mg/L	13:34:13
2	Zn 213.857†	46990.5	45708.8	0.4985 mg/L	0.4985 mg/L	13:34:13

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2598831.9						3354.97	0.13%
Ag 328.068†	80210.3	0.2500	mg/L	0.00061	0.2500	mg/L	0.00061	0.24%
QC value within limits for Ag 328.068 Recovery = 100.01%								
Al 237.313†	22128.0	2.491	mg/L	0.0062	2.491	mg/L	0.0062	0.25%
QC value within limits for Al 237.313 Recovery = 99.62%								
As 188.979†	631.0	0.5037	mg/L	0.00269	0.5037	mg/L	0.00269	0.53%
QC value within limits for As 188.979 Recovery = 100.74%								
B 182.528†	625.1	0.4976	mg/L	0.00234	0.4976	mg/L	0.00234	0.47%
QC value within limits for B 182.528 Recovery = 99.52%								
Ba 233.527†	89936.6	0.4985	mg/L	0.00123	0.4985	mg/L	0.00123	0.25%
QC value within limits for Ba 233.527 Recovery = 99.70%								
Be 313.107†	308350.3	0.0504	mg/L	0.00001	0.0504	mg/L	0.00001	0.01%
QC value within limits for Be 313.107 Recovery = 100.76%								
Ca 315.886†	743093.9	5.058	mg/L	0.0048	5.058	mg/L	0.0048	0.09%
QC value within limits for Ca 315.886 Recovery = 101.15%								
Cd 228.802†	20423.9	0.2482	mg/L	0.00044	0.2482	mg/L	0.00044	0.18%
QC value within limits for Cd 228.802 Recovery = 99.29%								
Co 228.616†	35149.4	0.5006	mg/L	0.00128	0.5006	mg/L	0.00128	0.26%
QC value within limits for Co 228.616 Recovery = 100.12%								
Cr 267.716†	74863.6	0.5002	mg/L	0.00182	0.5002	mg/L	0.00182	0.36%
QC value within limits for Cr 267.716 Recovery = 100.03%								
Cu 324.752†	70312.4	0.4955	mg/L	0.00371	0.4955	mg/L	0.00371	0.75%
QC value within limits for Cu 324.752 Recovery = 99.09%								
Fe 238.204†	323592.4	2.529	mg/L	0.0005	2.529	mg/L	0.0005	0.02%
QC value within limits for Fe 238.204 Recovery = 101.15%								
Fe 234.349†	101440.6	2.526	mg/L	0.0004	2.526	mg/L	0.0004	0.02%
QC value within limits for Fe 234.349 Recovery = 101.03%								
Mg 279.077†	109102.8	5.017	mg/L	0.0104	5.017	mg/L	0.0104	0.21%
QC value within limits for Mg 279.077 Recovery = 100.34%								
Mn 257.610†	508729.3	0.5015	mg/L	0.00136	0.5015	mg/L	0.00136	0.27%
QC value within limits for Mn 257.610 Recovery = 100.30%								
Mo 202.031†	6438.7	0.5014	mg/L	0.00051	0.5014	mg/L	0.00051	0.10%
QC value within limits for Mo 202.031 Recovery = 100.29%								
Na 330.237†	13049.7	24.20	mg/L	0.193	24.20	mg/L	0.193	0.80%
QC value within limits for Na 330.237 Recovery = 96.81%								
Ni 231.604†	27913.9	0.5005	mg/L	0.00100	0.5005	mg/L	0.00100	0.20%
QC value within limits for Ni 231.604 Recovery = 100.11%								
Pb 220.353†	4451.9	0.5041	mg/L	0.00009	0.5041	mg/L	0.00009	0.02%
QC value within limits for Pb 220.353 Recovery = 100.83%								
Sb 206.836†	1718.3	0.4941	mg/L	0.00276	0.4941	mg/L	0.00276	0.56%
QC value within limits for Sb 206.836 Recovery = 98.83%								
Se 196.026†	745.6	1.005	mg/L	0.0006	1.005	mg/L	0.0006	0.06%
QC value within limits for Se 196.026 Recovery = 100.48%								
Sn 189.927†	1548.1	0.5027	mg/L	0.00244	0.5027	mg/L	0.00244	0.49%
QC value within limits for Sn 189.927 Recovery = 100.55%								
Ti 337.279†	383715.4	0.4992	mg/L	0.00094	0.4992	mg/L	0.00094	0.19%
QC value within limits for Ti 337.279 Recovery = 99.83%								
Tl 190.801†	458.4	0.4551	mg/L	0.01034	0.4551	mg/L	0.01034	2.27%
QC value within limits for Tl 190.801 Recovery = 91.03%								
V 292.402†	120304.1	0.5028	mg/L	0.00158	0.5028	mg/L	0.00158	0.31%

QC value within limits for V 292.402 Recovery = 100.57%

Zn 213.857†	45643.4	0.4978 mg/L	0.00101	0.4978 mg/L	0.00101	0.20%

QC value within limits for Zn 213.857 Recovery = 99.56%

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/7/2006 1:36:11 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2578623.8	2578623.8					13:37:42
1	Ag 328.068†	-571.0	47.4	0.0003	mg/L	0.0003	mg/L	13:37:48
1	Al 237.313†	-287.0	19.3	-0.0009	mg/L	-0.0009	mg/L	13:38:08
1	As 188.979†	-0.8	-1.5	-0.0038	mg/L	-0.0038	mg/L	13:38:08
1	B 182.528†	-20.2	11.4	0.0076	mg/L	0.0076	mg/L	13:38:08
1	Ba 233.527†	-241.4	10.7	-0.0018	mg/L	-0.0018	mg/L	13:38:08
1	Be 313.107†	5027.3	94.5	-0.0001	mg/L	-0.0001	mg/L	13:37:42
1	Ca 315.886†	5189.0	913.7	-0.0230	mg/L	-0.0230	mg/L	13:37:48
1	Cd 228.802†	392.2	6.6	-0.0002	mg/L	-0.0002	mg/L	13:38:08
1	Co 228.616†	-441.4	29.5	-0.0019	mg/L	-0.0019	mg/L	13:38:08
1	Cr 267.716†	1699.0	76.2	-0.0014	mg/L	-0.0014	mg/L	13:37:48
1	Cu 324.752†	1296.4	-133.6	-0.0024	mg/L	-0.0024	mg/L	13:37:48
1	Fe 238.204†	3177.8	1678.2	0.0047	mg/L	0.0047	mg/L	13:38:08
1	Fe 234.349†	589.9	511.8	0.0048	mg/L	0.0048	mg/L	13:38:08
1	Mg 279.077†	659.6	666.2	0.0195	mg/L	0.0195	mg/L	13:37:48
1	Mn 257.610†	1082.4	-61.5	-0.0024	mg/L	-0.0024	mg/L	13:37:48
1	Mo 202.031†	14.1	15.5	-0.0014	mg/L	-0.0014	mg/L	13:38:08
1	Na 330.237†	2456.8	-39.4	0.3098	mg/L	0.3098	mg/L	13:37:48
1	Ni 231.604†	463.3	2.5	-0.0022	mg/L	-0.0022	mg/L	13:38:08
1	Pb 220.353†	-91.9	3.4	-0.0012	mg/L	-0.0012	mg/L	13:38:08
1	Sb 206.836†	91.5	6.6	-0.0002	mg/L	-0.0002	mg/L	13:38:08
1	Se 196.026†	-6.6	-0.8	-0.0053	mg/L	-0.0053	mg/L	13:38:08
1	Sn 189.927†	76.9	-31.9	-0.0167	mg/L	-0.0167	mg/L	13:38:08
1	Ti 337.279†	1269.4	113.9	0.0002	mg/L	0.0002	mg/L	13:37:48
1	Tl 190.801†	15.7	26.9	0.0366	mg/L	0.0366	mg/L	13:38:08
1	V 292.402†	2190.4	73.1	-0.0008	mg/L	-0.0008	mg/L	13:37:48
1	Zn 213.857†	1082.6	22.3	-0.0017	mg/L	-0.0017	mg/L	13:38:08
2	Y 360.073	2604665.3	2604665.3					13:38:14
2	Ag 328.068†	-633.0	-8.3	0.0001	mg/L	0.0001	mg/L	13:38:19
2	Al 237.313†	-253.5	55.5	0.0032	mg/L	0.0032	mg/L	13:38:39
2	As 188.979†	4.2	3.4	0.0001	mg/L	0.0001	mg/L	13:38:39
2	B 182.528†	-26.0	5.8	0.0032	mg/L	0.0032	mg/L	13:38:39
2	Ba 233.527†	-240.8	13.7	-0.0018	mg/L	-0.0018	mg/L	13:38:39
2	Be 313.107†	4985.3	2.5	-0.0001	mg/L	-0.0001	mg/L	13:38:14
2	Ca 315.886†	4947.0	621.6	-0.0250	mg/L	-0.0250	mg/L	13:38:19
2	Cd 228.802†	394.9	5.3	-0.0003	mg/L	-0.0003	mg/L	13:38:39
2	Co 228.616†	-444.3	31.0	-0.0019	mg/L	-0.0019	mg/L	13:38:39
2	Cr 267.716†	1726.3	86.2	-0.0013	mg/L	-0.0013	mg/L	13:38:19
2	Cu 324.752†	1259.1	-183.6	-0.0028	mg/L	-0.0028	mg/L	13:38:19
2	Fe 238.204†	3025.0	1494.9	0.0032	mg/L	0.0032	mg/L	13:38:39
2	Fe 234.349†	564.1	480.3	0.0040	mg/L	0.0040	mg/L	13:38:39
2	Mg 279.077†	604.0	604.4	0.0166	mg/L	0.0166	mg/L	13:38:19
2	Mn 257.610†	1087.8	-67.0	-0.0024	mg/L	-0.0024	mg/L	13:38:19
2	Mo 202.031†	13.3	14.6	-0.0015	mg/L	-0.0015	mg/L	13:38:39
2	Na 330.237†	2524.4	3.1	0.3874	mg/L	0.3874	mg/L	13:38:19
2	Ni 231.604†	460.8	-4.6	-0.0024	mg/L	-0.0024	mg/L	13:38:39
2	Pb 220.353†	-103.6	-7.3	-0.0024	mg/L	-0.0024	mg/L	13:38:39
2	Sb 206.836†	81.9	-3.8	-0.0032	mg/L	-0.0032	mg/L	13:38:39
2	Se 196.026†	0.8	6.7	0.0048	mg/L	0.0048	mg/L	13:38:39
2	Sn 189.927†	77.4	-32.2	-0.0168	mg/L	-0.0168	mg/L	13:38:39
2	Ti 337.279†	1282.9	114.6	0.0002	mg/L	0.0002	mg/L	13:38:19
2	Tl 190.801†	9.6	20.7	0.0306	mg/L	0.0306	mg/L	13:38:39
2	V 292.402†	2199.8	60.4	-0.0008	mg/L	-0.0008	mg/L	13:38:19
2	Zn 213.857†	1090.6	19.4	-0.0017	mg/L	-0.0017	mg/L	13:38:39

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2591644.6						18414.10	0.71%
Ag 328.068†	19.5	0.0002	mg/L	0.00012	0.0002	mg/L	0.00012	61.45%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	37.4	0.0012	mg/L	0.00291	0.0012	mg/L	0.00291	249.81%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	0.9	-0.0018	mg/L	0.00277	-0.0018	mg/L	0.00277	150.89%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	8.6	0.0054	mg/L	0.00313	0.0054	mg/L	0.00313	57.81%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	12.2	-0.0018	mg/L	0.00001	-0.0018	mg/L	0.00001	0.67%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	48.5	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	10.44%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	767.6	-0.0240	mg/L	0.00141	-0.0240	mg/L	0.00141	5.90%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	5.9	-0.0002	mg/L	0.00002	-0.0002	mg/L	0.00002	7.86%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	30.3	-0.0019	mg/L	0.00002	-0.0019	mg/L	0.00002	0.80%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	81.2	-0.0014	mg/L	0.00005	-0.0014	mg/L	0.00005	3.46%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-158.6	-0.0026	mg/L	0.00025	-0.0026	mg/L	0.00025	9.63%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 238.204†	1586.5	0.0040	mg/L	0.00102	0.0040	mg/L	0.00102	25.65%
QC value within limits for Fe 238.204 Recovery = Not calculated								
Fe 234.349†	496.0	0.0044	mg/L	0.00056	0.0044	mg/L	0.00056	12.57%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Mg 279.077†	635.3	0.0181	mg/L	0.00201	0.0181	mg/L	0.00201	11.15%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-64.3	-0.0024	mg/L	0.00000	-0.0024	mg/L	0.00000	0.16%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	15.1	-0.0015	mg/L	0.00005	-0.0015	mg/L	0.00005	3.42%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	-18.1	0.3486	mg/L	0.05487	0.3486	mg/L	0.05487	15.74%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	-1.0	-0.0023	mg/L	0.00009	-0.0023	mg/L	0.00009	3.95%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-2.0	-0.0018	mg/L	0.00086	-0.0018	mg/L	0.00086	47.81%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	1.4	-0.0017	mg/L	0.00215	-0.0017	mg/L	0.00215	127.23%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	2.9	-0.0003	mg/L	0.00714	-0.0003	mg/L	0.00714	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-32.0	-0.0167	mg/L	0.00007	-0.0167	mg/L	0.00007	0.44%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	114.3	0.0002	mg/L	0.00000	0.0002	mg/L	0.00000	0.40%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801†	23.8	0.0336	mg/L	0.00423	0.0336	mg/L	0.00423	12.57%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated								
V 292.402†	66.8	-0.0008	mg/L	0.00004	-0.0008	mg/L	0.00004	4.58%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	20.9	-0.0017	mg/L	0.00002	-0.0017	mg/L	0.00002	1.28%
QC value within limits for Zn 213.857 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 15
Sample ID: 0606090-01x5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 6/7/2006 1:40:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606090-01x5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2635156.9	2635156.9					13:41:50

As 188.979†	68.3	0.0522 mg/L	0.00062	0.0522 mg/L	0.00062	1.18%
B 182.528†	137.6	0.1084 mg/L	0.00588	0.1084 mg/L	0.00588	5.42%
Ba 233.527†	38588.1	0.2130 mg/L	0.00098	0.2130 mg/L	0.00098	0.46%
Be 313.107†	500.1	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	16.27%
Ca 315.886†	254935.1	1.716 mg/L	0.0009	1.716 mg/L	0.0009	0.05%
Cd 228.802†	9530.8	0.1161 mg/L	0.00058	0.1161 mg/L	0.00058	0.50%
Co 228.616†	295.3	0.0016 mg/L	0.00025	0.0016 mg/L	0.00025	15.13%
Cr 267.716†	29382.4	0.1960 mg/L	0.00093	0.1960 mg/L	0.00093	0.48%
Cu 324.752†	212018.8	1.496 mg/L	0.0039	1.496 mg/L	0.0039	0.26%
Fe 238.204†	2359067.5	18.48 mg/L	0.001	18.48 mg/L	0.001	0.01%
Fe 234.349†	745989.5	18.66 mg/L	0.006	18.66 mg/L	0.006	0.03%
Mg 279.077†	16036.6	0.6901 mg/L	0.00489	0.6901 mg/L	0.00489	0.71%
Mn 257.610†	133268.1	0.1302 mg/L	0.00084	0.1302 mg/L	0.00084	0.64%
Mo 202.031†	116.0	0.0077 mg/L	0.00016	0.0077 mg/L	0.00016	2.11%
Na 330.237†	56.9	0.5066 mg/L	0.04461	0.5066 mg/L	0.04461	8.80%
Ni 231.604†	9934.5	0.1768 mg/L	0.00053	0.1768 mg/L	0.00053	0.30%
Pb 220.353†	32114.5	3.630 mg/L	0.0199	3.630 mg/L	0.0199	0.55%
Sb 206.836†	185.8	0.0499 mg/L	0.00035	0.0499 mg/L	0.00035	0.70%
Se 196.026†	1.6	-0.0021 mg/L	0.00402	-0.0021 mg/L	0.00402	190.42%
Sn 189.927†	5619.2	1.837 mg/L	0.0101	1.837 mg/L	0.0101	0.55%
Ti 337.279†	36800.6	0.0479 mg/L	0.00024	0.0479 mg/L	0.00024	0.51%
Tl 190.801†	-4.2	0.0082 mg/L	0.00071	0.0082 mg/L	0.00071	8.70%
V 292.402†	4287.0	0.0182 mg/L	0.00014	0.0182 mg/L	0.00014	0.79%
Zn 213.857†	75992.2	0.8335 mg/L	0.00553	0.8335 mg/L	0.00553	0.66%

Sequence No.: 19
Sample ID: BF60721-BLK1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 13
Date Collected: 6/7/2006 1:56:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60721-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2647767.6	2647767.6					13:58:24
1	Ag 328.068†	-669.9	-34.1	0.0000	mg/L	0.0000	mg/L	13:58:29
1	Al 237.313†	-244.9	68.0	0.0045	mg/L	0.0045	mg/L	13:58:49
1	As 188.979†	-4.7	-5.3	-0.0068	mg/L	-0.0068	mg/L	13:58:49
1	B 182.528†	-27.0	5.3	0.0027	mg/L	0.0027	mg/L	13:58:49
1	Ba 233.527†	-204.5	53.1	-0.0015	mg/L	-0.0015	mg/L	13:58:49
1	Be 313.107†	5069.7	4.3	-0.0001	mg/L	-0.0001	mg/L	13:58:24
1	Ca 315.886†	17329.0	12627.2	0.0572	mg/L	0.0572	mg/L	13:58:29
1	Cd 228.802†	421.2	24.6	0.0000	mg/L	0.0000	mg/L	13:58:49
1	Co 228.616†	-478.8	4.6	-0.0023	mg/L	-0.0023	mg/L	13:58:49
1	Cr 267.716†	2529.8	842.6	0.0037	mg/L	0.0037	mg/L	13:58:29
1	Cu 324.752†	1613.5	142.1	-0.0005	mg/L	-0.0005	mg/L	13:58:29
1	Fe 238.204†	5565.1	3925.2	0.0223	mg/L	0.0223	mg/L	13:58:29
1	Fe 234.349†	1287.9	1177.6	0.0215	mg/L	0.0215	mg/L	13:58:49
1	Mg 279.077†	374.2	370.4	0.0058	mg/L	0.0058	mg/L	13:58:29
1	Mn 257.610†	2435.6	1230.9	-0.0012	mg/L	-0.0012	mg/L	13:58:29
1	Mo 202.031†	13.6	14.7	-0.0015	mg/L	-0.0015	mg/L	13:58:49
1	Na 330.237†	3434.2	850.3	1.934	mg/L	1.934	mg/L	13:58:29
1	Ni 231.604†	593.1	117.1	-0.0002	mg/L	-0.0002	mg/L	13:58:49
1	Pb 220.353†	14.0	109.1	0.0108	mg/L	0.0108	mg/L	13:58:49
1	Sb 206.836†	88.3	1.0	-0.0018	mg/L	-0.0018	mg/L	13:58:49
1	Se 196.026†	-6.4	-0.4	-0.0048	mg/L	-0.0048	mg/L	13:58:49
1	Sn 189.927†	104.1	-7.4	-0.0087	mg/L	-0.0087	mg/L	13:58:49
1	Ti 337.279†	1770.7	570.1	0.0007	mg/L	0.0007	mg/L	13:58:29
1	Tl 190.801†	-10.4	1.0	0.0115	mg/L	0.0115	mg/L	13:58:49
1	V 292.402†	2225.9	50.4	-0.0008	mg/L	-0.0008	mg/L	13:58:29
1	Zn 213.857†	1965.6	855.9	0.0075	mg/L	0.0075	mg/L	13:58:49
2	Y 360.073	2671436.9	2671436.9					13:58:55
2	Ag 328.068†	-614.8	24.9	0.0002	mg/L	0.0002	mg/L	13:59:00
2	Al 237.313†	-232.9	81.7	0.0061	mg/L	0.0061	mg/L	13:59:21
2	As 188.979†	-0.9	-1.6	-0.0039	mg/L	-0.0039	mg/L	13:59:21
2	B 182.528†	-30.1	2.5	0.0005	mg/L	0.0005	mg/L	13:59:21
2	Ba 233.527†	-224.7	35.3	-0.0016	mg/L	-0.0016	mg/L	13:59:21
2	Be 313.107†	5011.3	-96.0	-0.0001	mg/L	-0.0001	mg/L	13:58:55
2	Ca 315.886†	17125.7	12280.7	0.0549	mg/L	0.0549	mg/L	13:59:00

2	Cd 228.802†	421.9	21.6	-0.0001 mg/L	-0.0001 mg/L	13:59:21
2	Co 228.616†	-471.5	15.8	-0.0021 mg/L	-0.0021 mg/L	13:59:21
2	Cr 267.716†	2540.2	830.9	0.0037 mg/L	0.0037 mg/L	13:59:00
2	Cu 324.752†	1585.8	101.3	-0.0008 mg/L	-0.0008 mg/L	13:59:00
2	Fe 238.204†	5370.4	3688.7	0.0204 mg/L	0.0204 mg/L	13:59:00
2	Fe 234.349†	1240.8	1120.9	0.0200 mg/L	0.0200 mg/L	13:59:21
2	Mg 279.077†	342.1	336.1	0.0042 mg/L	0.0042 mg/L	13:59:00
2	Mn 257.610†	2499.6	1271.8	-0.0011 mg/L	-0.0011 mg/L	13:59:00
2	Mo 202.031†	8.1	9.3	-0.0019 mg/L	-0.0019 mg/L	13:59:21
2	Na 330.237†	3497.5	881.8	1.991 mg/L	1.991 mg/L	13:59:00
2	Ni 231.604†	624.5	142.3	0.0003 mg/L	0.0003 mg/L	13:59:21
2	Pb 220.353†	7.6	102.9	0.0101 mg/L	0.0101 mg/L	13:59:21
2	Sb 206.836†	93.3	5.1	-0.0007 mg/L	-0.0007 mg/L	13:59:21
2	Se 196.026†	-6.0	0.1	-0.0041 mg/L	-0.0041 mg/L	13:59:21
2	Sn 189.927†	98.3	-13.8	-0.0108 mg/L	-0.0108 mg/L	13:59:21
2	Ti 337.279†	1671.7	458.9	0.0006 mg/L	0.0006 mg/L	13:59:00
2	Tl 190.801†	-7.3	4.2	0.0146 mg/L	0.0146 mg/L	13:59:21
2	V 292.402†	2163.4	-29.3	-0.0012 mg/L	-0.0012 mg/L	13:59:00
2	Zn 213.857†	1978.6	851.4	0.0074 mg/L	0.0074 mg/L	13:59:21

Mean Data: BF60721-BLK1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2659602.3						16736.68	0.63%
Ag 328.068†	-4.6	0.0001	mg/L	0.00013	0.0001	mg/L	0.00013	104.43%
Al 237.313†	74.9	0.0053	mg/L	0.00111	0.0053	mg/L	0.00111	20.97%
As 188.979†	-3.5	-0.0053	mg/L	0.00210	-0.0053	mg/L	0.00210	39.40%
B 182.528†	3.9	0.0016	mg/L	0.00156	0.0016	mg/L	0.00156	95.36%
Ba 233.527†	44.2	-0.0016	mg/L	0.00007	-0.0016	mg/L	0.00007	4.40%
Be 313.107†	-45.8	-0.0001	mg/L	0.00001	-0.0001	mg/L	0.00001	9.93%
Ca 315.886†	12453.9	0.0560	mg/L	0.00168	0.0560	mg/L	0.00168	2.99%
Cd 228.802†	23.1	0.0000	mg/L	0.00003	0.0000	mg/L	0.00003	108.53%
Co 228.616†	10.2	-0.0022	mg/L	0.00011	-0.0022	mg/L	0.00011	5.17%
Cr 267.716†	836.7	0.0037	mg/L	0.00006	0.0037	mg/L	0.00006	1.52%
Cu 324.752†	121.7	-0.0006	mg/L	0.00020	-0.0006	mg/L	0.00020	33.26%
Fe 238.204†	3807.0	0.0214	mg/L	0.00131	0.0214	mg/L	0.00131	6.14%
Fe 234.349†	1149.2	0.0208	mg/L	0.00101	0.0208	mg/L	0.00101	4.85%
Mg 279.077†	353.2	0.0050	mg/L	0.00112	0.0050	mg/L	0.00112	22.17%
Mn 257.610†	1251.4	-0.0011	mg/L	0.00003	-0.0011	mg/L	0.00003	2.51%
Mo 202.031†	12.0	-0.0017	mg/L	0.00030	-0.0017	mg/L	0.00030	17.38%
Na 330.237†	866.1	1.962	mg/L	0.0406	1.962	mg/L	0.0406	2.07%
Ni 231.604†	129.7	0.0000	mg/L	0.00032	0.0000	mg/L	0.00032	685.80%
Pb 220.353†	106.0	0.0104	mg/L	0.00050	0.0104	mg/L	0.00050	4.83%
Sb 206.836†	3.1	-0.0013	mg/L	0.00085	-0.0013	mg/L	0.00085	67.55%
Se 196.026†	-0.2	-0.0045	mg/L	0.00049	-0.0045	mg/L	0.00049	10.94%
Sn 189.927†	-10.6	-0.0097	mg/L	0.00150	-0.0097	mg/L	0.00150	15.42%
Ti 337.279†	514.5	0.0007	mg/L	0.00010	0.0007	mg/L	0.00010	15.10%
Tl 190.801†	2.6	0.0130	mg/L	0.00216	0.0130	mg/L	0.00216	16.58%
V 292.402†	10.5	-0.0010	mg/L	0.00023	-0.0010	mg/L	0.00023	23.41%
Zn 213.857†	853.6	0.0074	mg/L	0.00004	0.0074	mg/L	0.00004	0.50%

Sequence No.: 20
Sample ID: BF60721-BS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 14
Date Collected: 6/7/2006 2:00:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60721-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2669540.0	2669540.0					14:02:34
1	Ag 328.068†	83917.8	81859.8	0.2552	mg/L	0.2552	mg/L	14:02:39
1	Al 237.313†	22300.2	21895.7	2.463	mg/L	2.463	mg/L	14:02:39
1	As 188.979†	631.6	610.7	0.4875	mg/L	0.4875	mg/L	14:03:00
1	B 182.528†	583.0	596.1	0.4744	mg/L	0.4744	mg/L	14:03:00
1	Ba 233.527†	94820.9	92048.0	0.5102	mg/L	0.5102	mg/L	14:02:39
1	Be 313.107†	330372.8	314887.3	0.0515	mg/L	0.0515	mg/L	14:02:34
1	Ca 315.886†	810999.2	780834.9	5.316	mg/L	5.316	mg/L	14:02:34

1	Cd 228.802†	21716.4	20636.9	0.2509 mg/L	0.2509 mg/L	14:02:39
1	Co 228.616†	36775.7	36074.2	0.5138 mg/L	0.5138 mg/L	14:02:39
1	Cr 267.716†	82708.2	78442.6	0.5242 mg/L	0.5242 mg/L	14:02:39
1	Cu 324.752†	76350.1	72481.1	0.5108 mg/L	0.5108 mg/L	14:02:39
1	Fe 238.204†	348957.6	336316.5	2.628 mg/L	2.628 mg/L	14:02:39
1	Fe 234.349†	108710.7	105162.4	2.619 mg/L	2.619 mg/L	14:02:39
1	Mg 279.077†	113351.2	109739.5	5.046 mg/L	5.046 mg/L	14:02:39
1	Mn 257.610†	549158.6	530489.6	0.5231 mg/L	0.5231 mg/L	14:02:34
1	Mo 202.031†	6897.4	6678.8	0.5202 mg/L	0.5202 mg/L	14:03:00
1	Na 330.237†	16286.6	13265.3	24.60 mg/L	24.60 mg/L	14:02:39
1	Ni 231.604†	30423.0	28990.5	0.5199 mg/L	0.5199 mg/L	14:02:39
1	Pb 220.353†	4557.3	4507.4	0.5105 mg/L	0.5105 mg/L	14:03:00
1	Sb 206.836†	1852.9	1708.7	0.4910 mg/L	0.4910 mg/L	14:03:00
1	Se 196.026†	733.0	715.5	0.9640 mg/L	0.9640 mg/L	14:03:00
1	Sn 189.927†	1814.7	1647.9	0.5355 mg/L	0.5355 mg/L	14:03:00
1	Ti 337.279†	415667.6	401246.2	0.5220 mg/L	0.5220 mg/L	14:02:39
1	Tl 190.801†	583.3	575.9	0.5693 mg/L	0.5693 mg/L	14:03:00
1	V 292.402†	130242.7	123964.7	0.5182 mg/L	0.5182 mg/L	14:02:39
1	Zn 213.857†	48442.4	45833.9	0.4998 mg/L	0.4998 mg/L	14:02:39
2	Y 360.073	2670358.1	2670358.1			14:03:06
2	Ag 328.068†	83528.0	81457.7	0.2539 mg/L	0.2539 mg/L	14:03:12
2	Al 237.313†	22302.0	21890.8	2.463 mg/L	2.463 mg/L	14:03:12
2	As 188.979†	640.7	619.3	0.4944 mg/L	0.4944 mg/L	14:03:32
2	B 182.528†	602.8	615.0	0.4896 mg/L	0.4896 mg/L	14:03:32
2	Ba 233.527†	94794.7	91994.5	0.5099 mg/L	0.5099 mg/L	14:03:12
2	Be 313.107†	331540.3	315919.2	0.0516 mg/L	0.0516 mg/L	14:03:06
2	Ca 315.886†	814637.7	784115.8	5.338 mg/L	5.338 mg/L	14:03:06
2	Cd 228.802†	21703.2	20617.7	0.2506 mg/L	0.2506 mg/L	14:03:12
2	Co 228.616†	36667.6	35958.6	0.5121 mg/L	0.5121 mg/L	14:03:12
2	Cr 267.716†	82371.3	78092.0	0.5218 mg/L	0.5218 mg/L	14:03:12
2	Cu 324.752†	76144.8	72259.8	0.5092 mg/L	0.5092 mg/L	14:03:12
2	Fe 238.204†	348090.3	335373.6	2.621 mg/L	2.621 mg/L	14:03:12
2	Fe 234.349†	108172.8	104609.6	2.605 mg/L	2.605 mg/L	14:03:12
2	Mg 279.077†	113239.7	109598.0	5.040 mg/L	5.040 mg/L	14:03:12
2	Mn 257.610†	550748.9	531865.8	0.5244 mg/L	0.5244 mg/L	14:03:06
2	Mo 202.031†	6961.9	6739.2	0.5250 mg/L	0.5250 mg/L	14:03:32
2	Na 330.237†	16314.0	13286.9	24.64 mg/L	24.64 mg/L	14:03:12
2	Ni 231.604†	30401.6	28960.7	0.5194 mg/L	0.5194 mg/L	14:03:12
2	Pb 220.353†	4587.8	4535.5	0.5137 mg/L	0.5137 mg/L	14:03:32
2	Sb 206.836†	1859.7	1714.6	0.4928 mg/L	0.4928 mg/L	14:03:32
2	Se 196.026†	731.7	714.0	0.9620 mg/L	0.9620 mg/L	14:03:32
2	Sn 189.927†	1817.6	1650.1	0.5362 mg/L	0.5362 mg/L	14:03:32
2	Ti 337.279†	413512.5	399037.3	0.5191 mg/L	0.5191 mg/L	14:03:12
2	Tl 190.801†	587.1	579.4	0.5727 mg/L	0.5727 mg/L	14:03:32
2	V 292.402†	129548.7	123254.5	0.5153 mg/L	0.5153 mg/L	14:03:12
2	Zn 213.857†	48397.5	45776.2	0.4992 mg/L	0.4992 mg/L	14:03:12

Mean Data: BF60721-BS1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2669949.1						578.46	0.02%
Ag 328.068†	81658.8	0.2545	mg/L	0.00089	0.2545	mg/L	0.00089	0.35%
Al 237.313†	21893.2	2.463	mg/L	0.0003	2.463	mg/L	0.0003	0.01%
As 188.979†	615.0	0.4910	mg/L	0.00487	0.4910	mg/L	0.00487	0.99%
B 182.528†	605.6	0.4820	mg/L	0.01070	0.4820	mg/L	0.01070	2.22%
Ba 233.527†	92021.2	0.5101	mg/L	0.00021	0.5101	mg/L	0.00021	0.04%
Be 313.107†	315403.2	0.0515	mg/L	0.00012	0.0515	mg/L	0.00012	0.23%
Ca 315.886†	782475.4	5.327	mg/L	0.0159	5.327	mg/L	0.0159	0.30%
Cd 228.802†	20627.3	0.2507	mg/L	0.00018	0.2507	mg/L	0.00018	0.07%
Co 228.616†	36016.4	0.5130	mg/L	0.00117	0.5130	mg/L	0.00117	0.23%
Cr 267.716†	78267.3	0.5230	mg/L	0.00166	0.5230	mg/L	0.00166	0.32%
Cu 324.752†	72370.4	0.5100	mg/L	0.00111	0.5100	mg/L	0.00111	0.22%
Fe 238.204†	335845.0	2.625	mg/L	0.0052	2.625	mg/L	0.0052	0.20%
Fe 234.349†	104886.0	2.612	mg/L	0.0098	2.612	mg/L	0.0098	0.37%
Mg 279.077†	109668.8	5.043	mg/L	0.0046	5.043	mg/L	0.0046	0.09%
Mn 257.610†	531177.7	0.5237	mg/L	0.00096	0.5237	mg/L	0.00096	0.18%
Mo 202.031†	6709.0	0.5226	mg/L	0.00334	0.5226	mg/L	0.00334	0.64%
Na 330.237†	13276.1	24.62	mg/L	0.028	24.62	mg/L	0.028	0.11%
Ni 231.604†	28975.6	0.5197	mg/L	0.00038	0.5197	mg/L	0.00038	0.07%
Pb 220.353†	4521.5	0.5121	mg/L	0.00225	0.5121	mg/L	0.00225	0.44%

Sb 206.836†	1711.7	0.4919 mg/L	0.00126	0.4919 mg/L	0.00126	0.26%
Se 196.026†	714.7	0.9630 mg/L	0.00141	0.9630 mg/L	0.00141	0.15%
Sn 189.927†	1649.0	0.5359 mg/L	0.00051	0.5359 mg/L	0.00051	0.10%
Ti 337.279†	400141.7	0.5205 mg/L	0.00203	0.5205 mg/L	0.00203	0.39%
Tl 190.801†	577.6	0.5710 mg/L	0.00244	0.5710 mg/L	0.00244	0.43%
V 292.402†	123609.6	0.5168 mg/L	0.00210	0.5168 mg/L	0.00210	0.41%
Zn 213.857†	45805.1	0.4995 mg/L	0.00045	0.4995 mg/L	0.00045	0.09%

Sequence No.: 21
Sample ID: BF60721-BSD1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 6/7/2006 2:05:11 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60721-BSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2636712.0	2636712.0					14:06:45
1	Ag 328.068†	81641.1	80639.8	0.2514	mg/L	0.2514	mg/L	14:06:51
1	Al 237.313†	21837.4	21710.8	2.443	mg/L	2.443	mg/L	14:06:51
1	As 188.979†	622.7	609.5	0.4866	mg/L	0.4866	mg/L	14:07:11
1	B 182.528†	581.3	601.4	0.4787	mg/L	0.4787	mg/L	14:07:11
1	Ba 233.527†	92455.0	90871.9	0.5037	mg/L	0.5037	mg/L	14:06:51
1	Be 313.107†	320492.8	309185.4	0.0505	mg/L	0.0505	mg/L	14:06:45
1	Ca 315.886†	788469.9	768528.1	5.232	mg/L	5.232	mg/L	14:06:45
1	Cd 228.802†	21231.1	20423.1	0.2483	mg/L	0.2483	mg/L	14:06:51
1	Co 228.616†	35756.1	35518.0	0.5058	mg/L	0.5058	mg/L	14:06:51
1	Cr 267.716†	80268.8	77048.5	0.5148	mg/L	0.5148	mg/L	14:06:51
1	Cu 324.752†	75009.0	72086.8	0.5080	mg/L	0.5080	mg/L	14:06:51
1	Fe 238.204†	342383.5	334078.9	2.611	mg/L	2.611	mg/L	14:06:51
1	Fe 234.349†	106497.1	104303.1	2.597	mg/L	2.597	mg/L	14:06:51
1	Mg 279.077†	110072.8	107892.5	4.961	mg/L	4.961	mg/L	14:06:51
1	Mn 257.610†	533594.2	521853.4	0.5145	mg/L	0.5145	mg/L	14:06:51
1	Mo 202.031†	6747.3	6614.8	0.5152	mg/L	0.5152	mg/L	14:07:11
1	Na 330.237†	16004.2	13184.8	24.45	mg/L	24.45	mg/L	14:06:51
1	Ni 231.604†	29642.9	28592.5	0.5128	mg/L	0.5128	mg/L	14:06:51
1	Pb 220.353†	4442.0	4449.3	0.5039	mg/L	0.5039	mg/L	14:07:11
1	Sb 206.836†	1811.3	1690.2	0.4857	mg/L	0.4857	mg/L	14:07:11
1	Se 196.026†	710.7	702.5	0.9465	mg/L	0.9465	mg/L	14:07:11
1	Sn 189.927†	1758.9	1615.0	0.5247	mg/L	0.5247	mg/L	14:07:11
1	Ti 337.279†	402860.9	393703.8	0.5121	mg/L	0.5121	mg/L	14:06:51
1	Tl 190.801†	562.1	562.2	0.5560	mg/L	0.5560	mg/L	14:07:11
1	V 292.402†	126375.2	121743.8	0.5089	mg/L	0.5089	mg/L	14:06:51
1	Zn 213.857†	47263.5	45262.4	0.4935	mg/L	0.4935	mg/L	14:06:51
2	Y 360.073	2668505.2	2668505.2					14:07:17
2	Ag 328.068†	81985.4	80019.9	0.2494	mg/L	0.2494	mg/L	14:07:23
2	Al 237.313†	21835.5	21454.0	2.414	mg/L	2.414	mg/L	14:07:23
2	As 188.979†	620.5	600.2	0.4791	mg/L	0.4791	mg/L	14:07:43
2	B 182.528†	582.1	595.4	0.4739	mg/L	0.4739	mg/L	14:07:43
2	Ba 233.527†	92854.7	90179.4	0.4998	mg/L	0.4998	mg/L	14:07:23
2	Be 313.107†	323678.8	308528.4	0.0504	mg/L	0.0504	mg/L	14:07:17
2	Ca 315.886†	796782.8	767371.3	5.224	mg/L	5.224	mg/L	14:07:17
2	Cd 228.802†	21262.0	20205.1	0.2456	mg/L	0.2456	mg/L	14:07:23
2	Co 228.616†	35878.8	35219.3	0.5016	mg/L	0.5016	mg/L	14:07:23
2	Cr 267.716†	80581.7	76414.1	0.5105	mg/L	0.5105	mg/L	14:07:23
2	Cu 324.752†	75440.5	71628.8	0.5048	mg/L	0.5048	mg/L	14:07:23
2	Fe 238.204†	343928.2	331576.6	2.591	mg/L	2.591	mg/L	14:07:23
2	Fe 234.349†	107006.4	103552.7	2.579	mg/L	2.579	mg/L	14:07:23
2	Mg 279.077†	110775.8	107287.9	4.933	mg/L	4.933	mg/L	14:07:23
2	Mn 257.610†	535870.2	517826.4	0.5105	mg/L	0.5105	mg/L	14:07:23
2	Mo 202.031†	6748.7	6537.3	0.5092	mg/L	0.5092	mg/L	14:07:43
2	Na 330.237†	16069.4	13061.0	24.22	mg/L	24.22	mg/L	14:07:23
2	Ni 231.604†	29704.6	28306.1	0.5076	mg/L	0.5076	mg/L	14:07:23
2	Pb 220.353†	4455.3	4410.3	0.4995	mg/L	0.4995	mg/L	14:07:43
2	Sb 206.836†	1819.8	1677.3	0.4820	mg/L	0.4820	mg/L	14:07:43
2	Se 196.026†	714.0	697.3	0.9395	mg/L	0.9395	mg/L	14:07:43
2	Sn 189.927†	1760.5	1596.1	0.5185	mg/L	0.5185	mg/L	14:07:43
2	Ti 337.279†	404083.2	390183.1	0.5076	mg/L	0.5076	mg/L	14:07:23
2	Tl 190.801†	571.9	565.1	0.5588	mg/L	0.5588	mg/L	14:07:43

2	V 292.402†	126912.2	120788.1	0.5049 mg/L	0.5049 mg/L	14:07:23
2	Zn 213.857†	47564.2	45001.7	0.4907 mg/L	0.4907 mg/L	14:07:23

Mean Data: BF60721-BSD1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2652608.6						22481.17	0.85%
Ag 328.068†	80329.8	0.2504	mg/L	0.00137	0.2504	mg/L	0.00137	0.55%
Al 237.313†	21582.4	2.428	mg/L	0.0205	2.428	mg/L	0.0205	0.85%
As 188.979†	604.9	0.4828	mg/L	0.00529	0.4828	mg/L	0.00529	1.09%
B 182.528†	598.4	0.4763	mg/L	0.00343	0.4763	mg/L	0.00343	0.72%
Ba 233.527†	90525.7	0.5018	mg/L	0.00272	0.5018	mg/L	0.00272	0.54%
Be 313.107†	308856.9	0.0505	mg/L	0.00008	0.0505	mg/L	0.00008	0.15%
Ca 315.886†	767949.7	5.228	mg/L	0.0056	5.228	mg/L	0.0056	0.11%
Cd 228.802†	20314.1	0.2469	mg/L	0.00187	0.2469	mg/L	0.00187	0.76%
Co 228.616†	35368.7	0.5037	mg/L	0.00302	0.5037	mg/L	0.00302	0.60%
Cr 267.716†	76731.3	0.5127	mg/L	0.00301	0.5127	mg/L	0.00301	0.59%
Cu 324.752†	71857.8	0.5064	mg/L	0.00229	0.5064	mg/L	0.00229	0.45%
Fe 238.204†	332827.8	2.601	mg/L	0.0139	2.601	mg/L	0.0139	0.53%
Fe 234.349†	103927.9	2.588	mg/L	0.0132	2.588	mg/L	0.0132	0.51%
Mg 279.077†	107590.2	4.947	mg/L	0.0197	4.947	mg/L	0.0197	0.40%
Mn 257.610†	519839.9	0.5125	mg/L	0.00282	0.5125	mg/L	0.00282	0.55%
Mo 202.031†	6576.1	0.5122	mg/L	0.00429	0.5122	mg/L	0.00429	0.84%
Na 330.237†	13122.9	24.34	mg/L	0.160	24.34	mg/L	0.160	0.66%
Ni 231.604†	28449.3	0.5102	mg/L	0.00365	0.5102	mg/L	0.00365	0.72%
Pb 220.353†	4429.8	0.5017	mg/L	0.00314	0.5017	mg/L	0.00314	0.63%
Sb 206.836†	1683.8	0.4839	mg/L	0.00262	0.4839	mg/L	0.00262	0.54%
Se 196.026†	699.9	0.9430	mg/L	0.00494	0.9430	mg/L	0.00494	0.52%
Sn 189.927†	1605.5	0.5216	mg/L	0.00440	0.5216	mg/L	0.00440	0.84%
Ti 337.279†	391943.5	0.5099	mg/L	0.00324	0.5099	mg/L	0.00324	0.64%
Tl 190.801†	563.6	0.5574	mg/L	0.00198	0.5574	mg/L	0.00198	0.36%
V 292.402†	121266.0	0.5069	mg/L	0.00283	0.5069	mg/L	0.00283	0.56%
Zn 213.857†	45132.0	0.4921	mg/L	0.00201	0.4921	mg/L	0.00201	0.41%

Duplicate Check: BF60721-BSD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.2545	0.2504	0.001	mg/L	1.6
Al 237.313	2.463	2.428	0.021	mg/L	1.4
As 188.979	0.4910	0.4828	0.005	mg/L	1.7
B 182.528	0.4820	0.4763	0.003	mg/L	1.2
Ba 233.527	0.5101	0.5018	0.003	mg/L	1.6
Be 313.107	0.0515	0.0505	0.000	mg/L	2.1
Ca 315.886	5.327	5.228	0.006	mg/L	1.9
Cd 228.802	0.2507	0.2469	0.002	mg/L	1.5
Co 228.616	0.5130	0.5037	0.003	mg/L	1.8
Cr 267.716	0.5230	0.5127	0.003	mg/L	2.0
Cu 324.752	0.5100	0.5064	0.002	mg/L	0.7
Fe 238.204	2.625	2.601	0.014	mg/L	0.9
Fe 234.349	2.612	2.588	0.013	mg/L	0.9
Mg 279.077	5.043	4.947	0.020	mg/L	1.9
Mn 257.610	0.5237	0.5125	0.003	mg/L	2.2
Mo 202.031	0.5226	0.5122	0.004	mg/L	2.0
Na 330.237	24.62	24.34	0.160	mg/L	1.1
Ni 231.604	0.5197	0.5102	0.004	mg/L	1.8
Pb 220.353	0.5121	0.5017	0.003	mg/L	2.1
Sb 206.836	0.4919	0.4839	0.003	mg/L	1.6
Se 196.026	0.9630	0.9430	0.005	mg/L	2.1
Sn 189.927	0.5359	0.5216	0.004	mg/L	2.7
Ti 337.279	0.5205	0.5099	0.003	mg/L	2.1
Tl 190.801	0.5710	0.5574	0.002	mg/L	2.4
V 292.402	0.5168	0.5069	0.003	mg/L	1.9
Zn 213.857	0.4995	0.4921	0.002	mg/L	1.5

Sequence No.: 22 Autosampler Location: 16
Sample ID: BF60721-SRM1 Date Collected: 6/7/2006 2:09:22 PM
Analyst: Data Type: Original

Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Replicate Data: BF60721-SRM1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2823022.1	2823022.1					14:11:11
1	Ag 328.068†	298628.9	274002.1	0.8537	mg/L	0.8537	mg/L	14:11:11
1	Al 237.313†	439647.7	402786.4	45.16	mg/L	45.16	mg/L	14:11:11
1	As 188.979†	1771.4	1620.9	1.303	mg/L	1.303	mg/L	14:11:31
1	B 182.528†	1113.9	1051.4	0.8379	mg/L	0.8379	mg/L	14:11:31
1	Ba 233.527†	613945.4	562294.3	3.128	mg/L	3.128	mg/L	14:11:11
1	Be 313.107†	3829128.6	3500465.3	0.5731	mg/L	0.5731	mg/L	14:11:01
1	Ca 315.886†	5663050.8	5180002.5	35.43	mg/L	35.43	mg/L	14:11:01
1	Cd 228.802†	73527.2	66924.6	0.8145	mg/L	0.8145	mg/L	14:11:11
1	Co 228.616†	39669.8	36787.9	0.5211	mg/L	0.5211	mg/L	14:11:11
1	Cr 267.716†	259981.2	236375.5	1.587	mg/L	1.587	mg/L	14:11:11
1	Cu 324.752†	101749.2	91714.4	0.6471	mg/L	0.6471	mg/L	14:11:11
1	Fe 238.204†	11175346.1	10229061.6	80.17	mg/L	80.17	mg/L	14:11:01
1	Fe 234.349†	3742986.8	3426470.5	85.73	mg/L	85.73	mg/L	14:11:11
1	Mg 279.077†	425992.1	389983.3	17.80	mg/L	17.80	mg/L	14:11:11
1	Mn 257.610†	1973133.5	1805175.9	1.788	mg/L	1.788	mg/L	14:11:11
1	Mo 202.031†	3341.6	3060.5	0.2435	mg/L	0.2435	mg/L	14:11:31
1	Na 330.237†	8664.3	5430.2	10.44	mg/L	10.44	mg/L	14:11:11
1	Ni 231.604†	47241.7	42786.0	0.7686	mg/L	0.7686	mg/L	14:11:11
1	Pb 220.353†	5809.8	5414.1	0.6138	mg/L	0.6138	mg/L	14:11:31
1	Sb 206.836†	2907.4	2576.5	0.7323	mg/L	0.7323	mg/L	14:11:31
1	Se 196.026†	519.8	481.7	0.6477	mg/L	0.6477	mg/L	14:11:31
1	Sn 189.927†	3226.4	2844.7	0.9308	mg/L	0.9308	mg/L	14:11:31
1	Ti 337.279†	1427428.9	1305594.0	1.698	mg/L	1.698	mg/L	14:11:11
1	Tl 190.801†	859.9	798.4	0.8011	mg/L	0.8011	mg/L	14:11:31
1	V 292.402†	327589.7	297772.6	1.248	mg/L	1.248	mg/L	14:11:11
1	Zn 213.857†	346950.8	316556.4	3.482	mg/L	3.482	mg/L	14:11:11
2	Y 360.073	2810494.0	2810494.0					14:11:50
2	Ag 328.068†	297271.2	273972.3	0.8536	mg/L	0.8536	mg/L	14:11:50
2	Al 237.313†	438623.5	403638.6	45.25	mg/L	45.25	mg/L	14:11:50
2	As 188.979†	1777.5	1633.7	1.313	mg/L	1.313	mg/L	14:12:10
2	B 182.528†	1111.7	1053.9	0.8399	mg/L	0.8399	mg/L	14:12:10
2	Ba 233.527†	614004.2	564853.7	3.142	mg/L	3.142	mg/L	14:11:50
2	Be 313.107†	3848598.3	3533994.2	0.5786	mg/L	0.5786	mg/L	14:11:40
2	Ca 315.886†	5695921.3	5233337.8	35.79	mg/L	35.79	mg/L	14:11:40
2	Cd 228.802†	73472.7	67174.6	0.8175	mg/L	0.8175	mg/L	14:11:50
2	Co 228.616†	39617.9	36902.1	0.5227	mg/L	0.5227	mg/L	14:11:50
2	Cr 267.716†	259810.8	237279.7	1.593	mg/L	1.593	mg/L	14:11:50
2	Cu 324.752†	100591.6	91065.1	0.6426	mg/L	0.6426	mg/L	14:11:50
2	Fe 238.204†	11233656.5	10328284.2	80.94	mg/L	80.94	mg/L	14:11:40
2	Fe 234.349†	3741585.9	3440456.5	86.08	mg/L	86.08	mg/L	14:11:50
2	Mg 279.077†	426518.0	392205.3	17.90	mg/L	17.90	mg/L	14:11:50
2	Mn 257.610†	1970695.2	1810985.7	1.794	mg/L	1.794	mg/L	14:11:50
2	Mo 202.031†	3310.0	3045.2	0.2424	mg/L	0.2424	mg/L	14:12:10
2	Na 330.237†	8634.9	5438.5	10.46	mg/L	10.46	mg/L	14:11:50
2	Ni 231.604†	47248.3	42984.9	0.7722	mg/L	0.7722	mg/L	14:11:50
2	Pb 220.353†	5802.9	5431.5	0.6157	mg/L	0.6157	mg/L	14:12:10
2	Sb 206.836†	2892.6	2574.7	0.7317	mg/L	0.7317	mg/L	14:12:10
2	Se 196.026†	521.0	485.0	0.6521	mg/L	0.6521	mg/L	14:12:10
2	Sn 189.927†	3223.4	2855.1	0.9343	mg/L	0.9343	mg/L	14:12:10
2	Ti 337.279†	1422668.6	1307041.7	1.700	mg/L	1.700	mg/L	14:11:50
2	Tl 190.801†	864.4	806.0	0.8085	mg/L	0.8085	mg/L	14:12:10
2	V 292.402†	326897.7	298473.2	1.251	mg/L	1.251	mg/L	14:11:50
2	Zn 213.857†	346835.3	317866.1	3.497	mg/L	3.497	mg/L	14:11:50

Mean Data: BF60721-SRM1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2816758.1						8858.70	0.31%
Ag 328.068†	273987.2	0.8537	mg/L	0.00007	0.8537	mg/L	0.00007	0.01%
Al 237.313†	403212.5	45.21	mg/L	0.067	45.21	mg/L	0.067	0.15%
As 188.979†	1627.3	1.308	mg/L	0.0072	1.308	mg/L	0.0072	0.55%
B 182.528†	1052.7	0.8389	mg/L	0.00141	0.8389	mg/L	0.00141	0.17%

Ba 233.527†	563574.0	3.135 mg/L	0.0101	3.135 mg/L	0.0101	0.32%
Be 313.107†	3517229.7	0.5758 mg/L	0.00388	0.5758 mg/L	0.00388	0.67%
Ca 315.886†	5206670.1	35.61 mg/L	0.258	35.61 mg/L	0.258	0.72%
Cd 228.802†	67049.6	0.8160 mg/L	0.00214	0.8160 mg/L	0.00214	0.26%
Co 228.616†	36845.0	0.5219 mg/L	0.00115	0.5219 mg/L	0.00115	0.22%
Cr 267.716†	236827.6	1.590 mg/L	0.0043	1.590 mg/L	0.0043	0.27%
Cu 324.752†	91389.8	0.6449 mg/L	0.00324	0.6449 mg/L	0.00324	0.50%
Fe 238.204†	10278672.9	80.56 mg/L	0.550	80.56 mg/L	0.550	0.68%
Fe 234.349†	3433463.5	85.91 mg/L	0.247	85.91 mg/L	0.247	0.29%
Mg 279.077†	391094.3	17.85 mg/L	0.072	17.85 mg/L	0.072	0.40%
Mn 257.610†	1808080.8	1.791 mg/L	0.0041	1.791 mg/L	0.0041	0.23%
Mo 202.031†	3052.9	0.2430 mg/L	0.00083	0.2430 mg/L	0.00083	0.34%
Na 330.237†	5434.3	10.45 mg/L	0.011	10.45 mg/L	0.011	0.11%
Ni 231.604†	42885.4	0.7704 mg/L	0.00253	0.7704 mg/L	0.00253	0.33%
Pb 220.353†	5422.8	0.6148 mg/L	0.00138	0.6148 mg/L	0.00138	0.23%
Sb 206.836†	2575.6	0.7320 mg/L	0.00042	0.7320 mg/L	0.00042	0.06%
Se 196.026†	483.4	0.6499 mg/L	0.00310	0.6499 mg/L	0.00310	0.48%
Sn 189.927†	2849.9	0.9325 mg/L	0.00243	0.9325 mg/L	0.00243	0.26%
Ti 337.279†	1306317.9	1.699 mg/L	0.0013	1.699 mg/L	0.0013	0.08%
Tl 190.801†	802.2	0.8048 mg/L	0.00526	0.8048 mg/L	0.00526	0.65%
V 292.402†	298122.9	1.250 mg/L	0.0021	1.250 mg/L	0.0021	0.17%
Zn 213.857†	317211.3	3.489 mg/L	0.0102	3.489 mg/L	0.0102	0.29%

Sequence No.: 23
Sample ID: 0606078-01
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 17
Date Collected: 6/7/2006 2:13:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606078-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2773169.3	2773169.3					14:15:38
1	Ag 328.068†	617355.7	575943.3	1.794	mg/L	1.794	mg/L	14:15:38
1	Al 237.313†	447861.4	417676.2	46.43	mg/L	46.43	mg/L	14:15:38
1	As 188.979†	55.1	50.6	0.0500	mg/L	0.0500	mg/L	14:16:04
1	B 182.528†	-14.4	18.2	0.0131	mg/L	0.0131	mg/L	14:16:04
1	Ba 233.527†	580113.2	540869.2	3.009	mg/L	3.009	mg/L	14:15:38
1	Be 313.107†	24704.6	18078.6	0.0034	mg/L	0.0034	mg/L	14:15:43
1	Ca 315.886†	1631975.1	1516576.6	10.35	mg/L	10.35	mg/L	14:15:38
1	Cd 228.802†	3465.1	2842.7	0.0307	mg/L	0.0307	mg/L	14:16:04
1	Co 228.616†	2070.4	2401.3	0.0265	mg/L	0.0265	mg/L	14:16:04
1	Cr 267.716†	310307.9	287554.2	1.933	mg/L	1.933	mg/L	14:15:43
1	Cu 324.752†	8358294.4	7787793.8	55.02	mg/L	55.02	mg/L	14:15:28
1	Fe 238.204†	17995962.8	16769215.6	131.4	mg/L	131.4	mg/L	14:15:28
1	Fe 234.349†	6283154.3	5855291.4	146.5	mg/L	146.5	mg/L	14:15:38
1	Mg 279.077†	278681.5	259712.8	11.67	mg/L	11.67	mg/L	14:15:43
1	Mn 257.610†	1938107.3	1805006.4	1.790	mg/L	1.790	mg/L	14:15:38
1	Mo 202.031†	517.0	483.2	0.0455	mg/L	0.0455	mg/L	14:16:04
1	Na 330.237†	2640.5	-40.9	-1.019	mg/L	-1.019	mg/L	14:15:43
1	Ni 231.604†	32095.1	29448.1	0.5285	mg/L	0.5285	mg/L	14:15:43
1	Pb 220.353†	73507.6	68598.4	7.757	mg/L	7.757	mg/L	14:15:43
1	Sb 206.836†	244.6	142.8	0.0159	mg/L	0.0159	mg/L	14:16:04
1	Se 196.026†	-12.6	-5.8	-0.0121	mg/L	-0.0121	mg/L	14:16:04
1	Sn 189.927†	11042.4	10181.7	3.339	mg/L	3.339	mg/L	14:16:04
1	Ti 337.279†	1852562.3	1725273.8	2.244	mg/L	2.244	mg/L	14:15:38
1	Tl 190.801†	-32.4	-18.9	0.0222	mg/L	0.0222	mg/L	14:16:04
1	V 292.402†	45532.0	40309.8	0.1792	mg/L	0.1792	mg/L	14:15:43
1	Zn 213.857†	2828922.9	2635255.3	29.01	mg/L	29.01	mg/L	14:15:38
2	Y 360.073	2804376.0	2804376.0					14:16:26
2	Ag 328.068†	625106.3	576683.6	1.796	mg/L	1.796	mg/L	14:16:26
2	Al 237.313†	454181.9	418856.4	46.57	mg/L	46.57	mg/L	14:16:26
2	As 188.979†	50.2	45.5	0.0461	mg/L	0.0461	mg/L	14:16:51
2	B 182.528†	-21.7	11.7	0.0079	mg/L	0.0079	mg/L	14:16:51
2	Ba 233.527†	586801.3	541016.8	3.010	mg/L	3.010	mg/L	14:16:26
2	Be 313.107†	24677.3	17797.3	0.0033	mg/L	0.0033	mg/L	14:16:31
2	Ca 315.886†	1652486.8	1518555.1	10.37	mg/L	10.37	mg/L	14:16:26
2	Cd 228.802†	3476.7	2817.4	0.0304	mg/L	0.0304	mg/L	14:16:51
2	Co 228.616†	2106.3	2412.9	0.0267	mg/L	0.0267	mg/L	14:16:51

2	Cr 267.716†	312137.4	286022.3	1.923 mg/L	1.923 mg/L	14:16:31
2	Cu 324.752†	8368289.7	7710327.4	54.47 mg/L	54.47 mg/L	14:16:16
2	Fe 238.204†	18039201.8	16622439.8	130.3 mg/L	130.3 mg/L	14:16:16
2	Fe 234.349†	6358796.1	5859840.9	146.6 mg/L	146.6 mg/L	14:16:26
2	Mg 279.077†	280842.1	258813.9	11.63 mg/L	11.63 mg/L	14:16:31
2	Mn 257.610†	1960875.7	1805889.9	1.791 mg/L	1.791 mg/L	14:16:26
2	Mo 202.031†	510.8	472.2	0.0447 mg/L	0.0447 mg/L	14:16:51
2	Na 330.237†	2688.3	-24.3	-0.9843 mg/L	-0.9843 mg/L	14:16:31
2	Ni 231.604†	32301.0	29305.0	0.5259 mg/L	0.5259 mg/L	14:16:31
2	Pb 220.353†	74145.9	68424.3	7.738 mg/L	7.738 mg/L	14:16:31
2	Sb 206.836†	237.8	134.0	0.0135 mg/L	0.0135 mg/L	14:16:51
2	Se 196.026†	-8.5	-2.0	-0.0069 mg/L	-0.0069 mg/L	14:16:51
2	Sn 189.927†	11043.8	10068.5	3.302 mg/L	3.302 mg/L	14:16:51
2	Ti 337.279†	1879610.7	1730988.6	2.252 mg/L	2.252 mg/L	14:16:26
2	Tl 190.801†	-41.3	-26.9	0.0145 mg/L	0.0145 mg/L	14:16:51
2	V 292.402†	45756.3	40044.3	0.1780 mg/L	0.1780 mg/L	14:16:31
2	Zn 213.857†	2855242.3	2630173.1	28.95 mg/L	28.95 mg/L	14:16:26

Mean Data: 0606078-01

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2788772.6						22066.50	0.79%
Ag 328.068†	576313.4	1.795	mg/L	0.0016	1.795	mg/L	0.0016	0.09%
Al 237.313†	418266.3	46.50	mg/L	0.094	46.50	mg/L	0.094	0.20%
As 188.979†	48.0	0.0480	mg/L	0.00280	0.0480	mg/L	0.00280	5.84%
B 182.528†	15.0	0.0105	mg/L	0.00370	0.0105	mg/L	0.00370	35.26%
Ba 233.527†	540943.0	3.010	mg/L	0.0006	3.010	mg/L	0.0006	0.02%
Be 313.107†	17937.9	0.0034	mg/L	0.00003	0.0034	mg/L	0.00003	0.99%
Ca 315.886†	1517565.8	10.36	mg/L	0.010	10.36	mg/L	0.010	0.09%
Cd 228.802†	2830.1	0.0306	mg/L	0.00021	0.0306	mg/L	0.00021	0.70%
Co 228.616†	2407.1	0.0266	mg/L	0.00011	0.0266	mg/L	0.00011	0.42%
Cr 267.716†	286788.3	1.928	mg/L	0.0073	1.928	mg/L	0.0073	0.38%
Cu 324.752†	7749060.6	54.74	mg/L	0.387	54.74	mg/L	0.387	0.71%
Fe 238.204†	16695827.7	130.8	mg/L	0.81	130.8	mg/L	0.81	0.62%
Fe 234.349†	5857566.1	146.6	mg/L	0.08	146.6	mg/L	0.08	0.05%
Mg 279.077†	259263.4	11.65	mg/L	0.029	11.65	mg/L	0.029	0.25%
Mn 257.610†	1805448.2	1.791	mg/L	0.0006	1.791	mg/L	0.0006	0.03%
Mo 202.031†	477.7	0.0451	mg/L	0.00060	0.0451	mg/L	0.00060	1.34%
Na 330.237†	-32.6	-1.002	mg/L	0.0245	-1.002	mg/L	0.0245	2.45%
Ni 231.604†	29376.5	0.5272	mg/L	0.00182	0.5272	mg/L	0.00182	0.35%
Pb 220.353†	68511.4	7.747	mg/L	0.0139	7.747	mg/L	0.0139	0.18%
Sb 206.836†	138.4	0.0147	mg/L	0.00173	0.0147	mg/L	0.00173	11.79%
Se 196.026†	-3.9	-0.0095	mg/L	0.00368	-0.0095	mg/L	0.00368	38.58%
Sn 189.927†	10125.1	3.320	mg/L	0.0262	3.320	mg/L	0.0262	0.79%
Ti 337.279†	1728131.2	2.248	mg/L	0.0053	2.248	mg/L	0.0053	0.23%
Tl 190.801†	-22.9	0.0184	mg/L	0.00541	0.0184	mg/L	0.00541	29.47%
V 292.402†	40177.1	0.1786	mg/L	0.00084	0.1786	mg/L	0.00084	0.47%
Zn 213.857†	2632714.2	28.98	mg/L	0.039	28.98	mg/L	0.039	0.14%

Sequence No.: 24
Sample ID: 0606078-02
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 18
Date Collected: 6/7/2006 2:18:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606078-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2746027.5	2746027.5					14:20:09
1	Ag 328.068†	144436.4	136552.7	0.4255	mg/L	0.4255	mg/L	14:20:14
1	Al 237.313†	237457.9	223785.1	24.89	mg/L	24.89	mg/L	14:20:14
1	As 188.979†	26.2	23.9	0.0247	mg/L	0.0247	mg/L	14:20:34
1	B 182.528†	-19.4	13.4	0.0092	mg/L	0.0092	mg/L	14:20:34
1	Ba 233.527†	189101.2	178220.9	0.9901	mg/L	0.9901	mg/L	14:20:14
1	Be 313.107†	20416.2	14270.2	0.0025	mg/L	0.0025	mg/L	14:20:14
1	Ca 315.886†	3315167.7	3115706.6	21.30	mg/L	21.30	mg/L	14:20:09
1	Cd 228.802†	2727.1	2180.0	0.0242	mg/L	0.0242	mg/L	14:20:34
1	Co 228.616†	1325.6	1719.5	0.0183	mg/L	0.0183	mg/L	14:20:34

1	Cr 267.716†	233909.8	218512.3	1.467 mg/L	1.467 mg/L	14:20:14
1	Cu 324.752†	3187316.8	2998236.7	21.18 mg/L	21.18 mg/L	14:20:02
1	Fe 238.204†	9871696.6	9289012.5	72.80 mg/L	72.80 mg/L	14:20:02
1	Fe 234.349†	3259081.5	3067129.7	76.74 mg/L	76.74 mg/L	14:20:09
1	Mg 279.077†	168791.1	158859.0	7.159 mg/L	7.159 mg/L	14:20:14
1	Mn 257.610†	997051.0	937205.1	0.9284 mg/L	0.9284 mg/L	14:20:09
1	Mo 202.031†	86.5	82.8	0.0094 mg/L	0.0094 mg/L	14:20:34
1	Na 330.237†	4805.6	2021.0	3.876 mg/L	3.876 mg/L	14:20:14
1	Ni 231.604†	49237.9	45877.3	0.8247 mg/L	0.8247 mg/L	14:20:14
1	Pb 220.353†	44029.2	41532.6	4.696 mg/L	4.696 mg/L	14:20:14
1	Sb 206.836†	188.6	92.3	0.0069 mg/L	0.0069 mg/L	14:20:34
1	Se 196.026†	-8.7	-2.3	-0.0074 mg/L	-0.0074 mg/L	14:20:34
1	Sn 189.927†	5679.9	5236.6	1.715 mg/L	1.715 mg/L	14:20:34
1	Ti 337.279†	1240737.3	1166532.9	1.517 mg/L	1.517 mg/L	14:20:09
1	Tl 190.801†	-14.6	-2.5	0.0230 mg/L	0.0230 mg/L	14:20:34
1	V 292.402†	80790.0	73911.4	0.3161 mg/L	0.3161 mg/L	14:20:14
1	Zn 213.857†	759741.9	713950.8	7.850 mg/L	7.850 mg/L	14:20:09
2	Y 360.073	2743828.5	2743828.5			14:20:49
2	Ag 328.068†	145297.9	137473.0	0.4283 mg/L	0.4283 mg/L	14:20:55
2	Al 237.313†	238435.8	224885.2	25.01 mg/L	25.01 mg/L	14:20:55
2	As 188.979†	33.5	30.8	0.0302 mg/L	0.0302 mg/L	14:21:15
2	B 182.528†	-14.2	18.3	0.0131 mg/L	0.0131 mg/L	14:21:15
2	Ba 233.527†	189809.6	179030.7	0.9946 mg/L	0.9946 mg/L	14:20:55
2	Be 313.107†	20378.4	14250.0	0.0025 mg/L	0.0025 mg/L	14:20:55
2	Ca 315.886†	3319320.9	3122118.8	21.34 mg/L	21.34 mg/L	14:20:49
2	Cd 228.802†	2747.6	2201.4	0.0244 mg/L	0.0244 mg/L	14:21:15
2	Co 228.616†	1325.4	1720.3	0.0183 mg/L	0.0183 mg/L	14:21:15
2	Cr 267.716†	234691.7	219425.1	1.473 mg/L	1.473 mg/L	14:20:55
2	Cu 324.752†	3222180.2	3033477.9	21.43 mg/L	21.43 mg/L	14:20:42
2	Fe 238.204†	9929352.1	9350762.7	73.28 mg/L	73.28 mg/L	14:20:42
2	Fe 234.349†	3259826.3	3070289.3	76.82 mg/L	76.82 mg/L	14:20:49
2	Mg 279.077†	169206.0	159377.1	7.183 mg/L	7.183 mg/L	14:20:55
2	Mn 257.610†	997260.6	938154.5	0.9293 mg/L	0.9293 mg/L	14:20:49
2	Mo 202.031†	86.4	82.8	0.0094 mg/L	0.0094 mg/L	14:21:15
2	Na 330.237†	4877.7	2092.6	4.007 mg/L	4.007 mg/L	14:20:55
2	Ni 231.604†	49392.9	46060.4	0.8280 mg/L	0.8280 mg/L	14:20:55
2	Pb 220.353†	44171.2	41699.5	4.715 mg/L	4.715 mg/L	14:20:55
2	Sb 206.836†	187.6	91.6	0.0066 mg/L	0.0066 mg/L	14:21:15
2	Se 196.026†	-3.6	2.5	-0.0009 mg/L	-0.0009 mg/L	14:21:15
2	Sn 189.927†	5707.8	5267.1	1.725 mg/L	1.725 mg/L	14:21:15
2	Ti 337.279†	1241566.2	1168249.5	1.520 mg/L	1.520 mg/L	14:20:49
2	Tl 190.801†	-24.0	-11.4	0.0144 mg/L	0.0144 mg/L	14:21:15
2	V 292.402†	81146.4	74308.1	0.3178 mg/L	0.3178 mg/L	14:20:55
2	Zn 213.857†	759323.9	714130.2	7.852 mg/L	7.852 mg/L	14:20:49

Mean Data: 0606078-02

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2744928.0						1554.90	0.06%
Ag 328.068†	137012.9	0.4269	mg/L	0.00203	0.4269	mg/L	0.00203	0.47%
Al 237.313†	224335.1	24.95	mg/L	0.088	24.95	mg/L	0.088	0.35%
As 188.979†	27.3	0.0274	mg/L	0.00394	0.0274	mg/L	0.00394	14.35%
B 182.528†	15.8	0.0112	mg/L	0.00276	0.0112	mg/L	0.00276	24.72%
Ba 233.527†	178625.8	0.9924	mg/L	0.00319	0.9924	mg/L	0.00319	0.32%
Be 313.107†	14260.1	0.0025	mg/L	0.00000	0.0025	mg/L	0.00000	0.07%
Ca 315.886†	3118912.7	21.32	mg/L	0.031	21.32	mg/L	0.031	0.15%
Cd 228.802†	2190.7	0.0243	mg/L	0.00017	0.0243	mg/L	0.00017	0.71%
Co 228.616†	1719.9	0.0183	mg/L	0.00000	0.0183	mg/L	0.00000	0.01%
Cr 267.716†	218968.7	1.470	mg/L	0.0043	1.470	mg/L	0.0043	0.29%
Cu 324.752†	3015857.3	21.31	mg/L	0.176	21.31	mg/L	0.176	0.83%
Fe 238.204†	9319887.6	73.04	mg/L	0.342	73.04	mg/L	0.342	0.47%
Fe 234.349†	3068709.5	76.78	mg/L	0.056	76.78	mg/L	0.056	0.07%
Mg 279.077†	159118.0	7.171	mg/L	0.0168	7.171	mg/L	0.0168	0.23%
Mn 257.610†	937679.8	0.9288	mg/L	0.00067	0.9288	mg/L	0.00067	0.07%
Mo 202.031†	82.8	0.0094	mg/L	0.00000	0.0094	mg/L	0.00000	0.04%
Na 330.237†	2056.8	3.941	mg/L	0.0926	3.941	mg/L	0.0926	2.35%
Ni 231.604†	45968.8	0.8263	mg/L	0.00233	0.8263	mg/L	0.00233	0.28%
Pb 220.353†	41616.1	4.706	mg/L	0.0134	4.706	mg/L	0.0134	0.28%
Sb 206.836†	92.0	0.0068	mg/L	0.00021	0.0068	mg/L	0.00021	3.06%
Se 196.026†	0.1	-0.0042	mg/L	0.00461	-0.0042	mg/L	0.00461	110.88%

Sn 189.927†	5251.8	1.720 mg/L	0.0071	1.720 mg/L	0.0071	0.41%
Ti 337.279†	1167391.2	1.519 mg/L	0.0016	1.519 mg/L	0.0016	0.10%
Tl 190.801†	-7.0	0.0187 mg/L	0.00609	0.0187 mg/L	0.00609	32.53%
V 292.402†	74109.7	0.3170 mg/L	0.00120	0.3170 mg/L	0.00120	0.38%
Zn 213.857†	714040.5	7.851 mg/L	0.0013	7.851 mg/L	0.0013	0.02%

Sequence No.: 25
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/7/2006 2:22:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2585539.4	2585539.4					14:24:24
1	Ag 328.068†	82243.3	82825.5	0.2582	mg/L	0.2582	mg/L	14:24:29
1	Al 237.313†	22441.5	22738.3	2.559	mg/L	2.559	mg/L	14:24:29
1	As 188.979†	643.7	642.7	0.5131	mg/L	0.5131	mg/L	14:24:50
1	B 182.528†	613.0	644.4	0.5130	mg/L	0.5130	mg/L	14:24:50
1	Ba 233.527†	92558.7	92769.1	0.5142	mg/L	0.5142	mg/L	14:24:29
1	Be 313.107†	317600.0	312511.1	0.0511	mg/L	0.0511	mg/L	14:24:24
1	Ca 315.886†	757056.1	752424.0	5.121	mg/L	5.121	mg/L	14:24:24
1	Cd 228.802†	21306.8	20910.6	0.2542	mg/L	0.2542	mg/L	14:24:29
1	Co 228.616†	35710.7	36166.3	0.5151	mg/L	0.5151	mg/L	14:24:29
1	Cr 267.716†	78982.2	77319.6	0.5166	mg/L	0.5166	mg/L	14:24:29
1	Cu 324.752†	89017.1	87543.7	0.6172	mg/L	0.6172	mg/L	14:24:29
1	Fe 238.204†	334117.0	332458.0	2.598	mg/L	2.598	mg/L	14:24:29
1	Fe 234.349†	104314.3	104187.3	2.594	mg/L	2.594	mg/L	14:24:29
1	Mg 279.077†	111548.8	111503.1	5.128	mg/L	5.128	mg/L	14:24:29
1	Mn 257.610†	526407.4	525020.9	0.5176	mg/L	0.5176	mg/L	14:24:29
1	Mo 202.031†	6590.9	6589.3	0.5132	mg/L	0.5132	mg/L	14:24:50
1	Na 330.237†	16169.2	13660.2	25.31	mg/L	25.31	mg/L	14:24:29
1	Ni 231.604†	29235.5	28760.4	0.5158	mg/L	0.5158	mg/L	14:24:29
1	Pb 220.353†	4457.6	4551.1	0.5154	mg/L	0.5154	mg/L	14:24:50
1	Sb 206.836†	1847.4	1761.4	0.5065	mg/L	0.5065	mg/L	14:24:50
1	Se 196.026†	749.1	754.7	1.017	mg/L	1.017	mg/L	14:24:50
1	Sn 189.927†	1698.3	1588.6	0.5160	mg/L	0.5160	mg/L	14:24:50
1	Ti 337.279†	398471.5	397131.5	0.5166	mg/L	0.5166	mg/L	14:24:29
1	Tl 190.801†	578.2	589.1	0.5820	mg/L	0.5820	mg/L	14:24:50
1	V 292.402†	126462.0	124282.2	0.5195	mg/L	0.5195	mg/L	14:24:29
1	Zn 213.857†	50447.1	49361.4	0.5386	mg/L	0.5386	mg/L	14:24:29
2	Y 360.073	2598406.1	2598406.1					14:24:56
2	Ag 328.068†	81953.6	82130.3	0.2560	mg/L	0.2560	mg/L	14:25:01
2	Al 237.313†	22422.4	22608.3	2.545	mg/L	2.545	mg/L	14:25:01
2	As 188.979†	641.8	637.6	0.5090	mg/L	0.5090	mg/L	14:25:22
2	B 182.528†	615.1	643.5	0.5123	mg/L	0.5123	mg/L	14:25:22
2	Ba 233.527†	92368.1	92121.4	0.5106	mg/L	0.5106	mg/L	14:25:01
2	Be 313.107†	318926.0	312258.0	0.0510	mg/L	0.0510	mg/L	14:24:56
2	Ca 315.886†	759341.1	750949.6	5.111	mg/L	5.111	mg/L	14:24:56
2	Cd 228.802†	21279.0	20777.5	0.2525	mg/L	0.2525	mg/L	14:25:01
2	Co 228.616†	35585.4	35865.0	0.5108	mg/L	0.5108	mg/L	14:25:01
2	Cr 267.716†	78768.6	76716.2	0.5126	mg/L	0.5126	mg/L	14:25:01
2	Cu 324.752†	87163.8	85259.8	0.6011	mg/L	0.6011	mg/L	14:25:01
2	Fe 238.204†	332989.6	329683.0	2.576	mg/L	2.576	mg/L	14:25:01
2	Fe 234.349†	104010.2	103368.5	2.574	mg/L	2.574	mg/L	14:25:01
2	Mg 279.077†	111409.1	110812.1	5.096	mg/L	5.096	mg/L	14:25:01
2	Mn 257.610†	524942.7	520958.7	0.5136	mg/L	0.5136	mg/L	14:25:01
2	Mo 202.031†	6579.7	6545.6	0.5098	mg/L	0.5098	mg/L	14:25:22
2	Na 330.237†	16089.4	13500.8	25.02	mg/L	25.02	mg/L	14:25:01
2	Ni 231.604†	29209.6	28589.9	0.5127	mg/L	0.5127	mg/L	14:25:01
2	Pb 220.353†	4469.6	4540.9	0.5142	mg/L	0.5142	mg/L	14:25:22
2	Sb 206.836†	1844.2	1749.1	0.5030	mg/L	0.5030	mg/L	14:25:22
2	Se 196.026†	750.7	752.6	1.014	mg/L	1.014	mg/L	14:25:22
2	Sn 189.927†	1710.9	1592.7	0.5174	mg/L	0.5174	mg/L	14:25:22
2	Ti 337.279†	396729.1	393426.3	0.5118	mg/L	0.5118	mg/L	14:25:01
2	Tl 190.801†	581.3	589.4	0.5823	mg/L	0.5823	mg/L	14:25:22
2	V 292.402†	126048.3	123244.7	0.5152	mg/L	0.5152	mg/L	14:25:01
2	Zn 213.857†	50142.3	48808.5	0.5326	mg/L	0.5326	mg/L	14:25:01

1	Na 330.237†	5335.6	2616.7	5.504 mg/L	5.504 mg/L	14:32:50
1	Ni 231.604†	4580.5	3932.1	0.0686 mg/L	0.0686 mg/L	14:33:10
1	Pb 220.353†	10152.8	9834.8	1.115 mg/L	1.115 mg/L	14:32:50
1	Sb 206.836†	68.9	-19.0	-0.0087 mg/L	-0.0087 mg/L	14:33:10
1	Se 196.026†	-2.3	3.6	0.0007 mg/L	0.0007 mg/L	14:33:10
1	Sn 189.927†	416.0	290.2	0.0953 mg/L	0.0953 mg/L	14:33:10
1	Ti 337.279†	2202589.5	2111725.7	2.747 mg/L	2.747 mg/L	14:32:44
1	Tl 190.801†	-6.8	4.7	0.0219 mg/L	0.0219 mg/L	14:33:10
1	V 292.402†	153270.9	144906.4	0.6002 mg/L	0.6002 mg/L	14:32:50
1	Zn 213.857†	29362.3	27103.7	0.2976 mg/L	0.2976 mg/L	14:32:50
2	Y 360.073	2704631.0	2704631.0			14:33:24
2	Ag 328.068†	56255.3	54373.4	0.1696 mg/L	0.1696 mg/L	14:33:29
2	Al 237.313†	605625.8	579001.5	65.24 mg/L	65.24 mg/L	14:33:24
2	As 188.979†	65.3	61.6	0.0634 mg/L	0.0634 mg/L	14:33:49
2	B 182.528†	-24.4	8.4	0.0052 mg/L	0.0052 mg/L	14:33:49
2	Ba 233.527†	35451.9	34128.1	0.1877 mg/L	0.1877 mg/L	14:33:29
2	Be 313.107†	22669.6	16717.5	0.0028 mg/L	0.0028 mg/L	14:33:29
2	Ca 315.886†	528407.2	500623.0	3.399 mg/L	3.399 mg/L	14:33:24
2	Cd 228.802†	716.8	298.5	0.0008 mg/L	0.0008 mg/L	14:33:49
2	Co 228.616†	412.7	866.3	0.0044 mg/L	0.0044 mg/L	14:33:49
2	Cr 267.716†	15473.7	13159.0	0.0904 mg/L	0.0904 mg/L	14:33:29
2	Cu 324.752†	306416.0	291357.3	2.058 mg/L	2.058 mg/L	14:33:24
2	Fe 238.204†	10089996.8	9639803.7	75.55 mg/L	75.55 mg/L	14:33:17
2	Fe 234.349†	3363091.5	3213460.5	80.41 mg/L	80.41 mg/L	14:33:24
2	Mg 279.077†	88423.7	84496.8	3.719 mg/L	3.719 mg/L	14:33:29
2	Mn 257.610†	262429.5	249613.3	0.2476 mg/L	0.2476 mg/L	14:33:29
2	Mo 202.031†	99.4	96.4	0.0109 mg/L	0.0109 mg/L	14:33:49
2	Na 330.237†	5313.2	2575.3	5.428 mg/L	5.428 mg/L	14:33:29
2	Ni 231.604†	4588.8	3922.9	0.0684 mg/L	0.0684 mg/L	14:33:49
2	Pb 220.353†	10174.9	9817.9	1.113 mg/L	1.113 mg/L	14:33:29
2	Sb 206.836†	71.9	-16.4	-0.0080 mg/L	-0.0080 mg/L	14:33:49
2	Se 196.026†	-8.8	-2.5	-0.0077 mg/L	-0.0077 mg/L	14:33:49
2	Sn 189.927†	412.9	285.6	0.0938 mg/L	0.0938 mg/L	14:33:49
2	Ti 337.279†	2217881.8	2118097.8	2.755 mg/L	2.755 mg/L	14:33:24
2	Tl 190.801†	-10.9	0.8	0.0182 mg/L	0.0182 mg/L	14:33:49
2	V 292.402†	154095.0	145120.5	0.6010 mg/L	0.6010 mg/L	14:33:29
2	Zn 213.857†	29450.6	27078.3	0.2973 mg/L	0.2973 mg/L	14:33:29

Mean Data: 0606078-03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2699357.0						7458.53	0.28%
Ag 328.068†	54290.8	0.1694	mg/L✓	0.00036	0.1694	mg/L	0.00036	0.22%
Al 237.313†	578952.7	65.23	mg/L	0.008	65.23	mg/L	0.008	0.01%
As 188.979†	60.6	0.0625	mg/L	0.00120	0.0625	mg/L	0.00120	1.91%
B 182.528†	6.7	0.0039	mg/L	0.00183	0.0039	mg/L	0.00183	46.68%
Ba 233.527†	34156.2	0.1879	mg/L✓	0.00022	0.1879	mg/L	0.00022	0.12%
Be 313.107†	16700.6	0.0028	mg/L✓	0.00000	0.0028	mg/L	0.00000	0.14%
Ca 315.886†	500676.0	3.399	mg/L	0.0005	3.399	mg/L	0.0005	0.02%
Cd 228.802†	293.1	0.0007	mg/L	0.00009	0.0007	mg/L	0.00009	11.66%
Co 228.616†	872.5	0.0045	mg/L	0.00014	0.0045	mg/L	0.00014	3.05%
Cr 267.716†	13180.8	0.0905	mg/L✓	0.00020	0.0905	mg/L	0.00020	0.23%
Cu 324.752†	292568.9	2.067	mg/L✓	0.0121	2.067	mg/L	0.0121	0.59%
Fe 238.204†	9675912.2	75.83	mg/L	0.400	75.83	mg/L	0.400	0.53%
Fe 234.349†	3212412.9	80.38	mg/L	0.037	80.38	mg/L	0.037	0.05%
Mg 279.077†	84501.4	3.719	mg/L	0.0004	3.719	mg/L	0.0004	0.01%
Mn 257.610†	249540.4	0.2475	mg/L	0.00010	0.2475	mg/L	0.00010	0.04%
Mo 202.031†	102.3	0.0114	mg/L	0.00066	0.0114	mg/L	0.00066	5.76%
Na 330.237†	2596.0	5.466	mg/L	0.0533	5.466	mg/L	0.0533	0.97%
Ni 231.604†	3927.5	0.0685	mg/L	0.00012	0.0685	mg/L	0.00012	0.17%
Pb 220.353†	9826.4	1.114	mg/L✓	0.0014	1.114	mg/L	0.0014	0.12%
Sb 206.836†	-17.7	-0.0084	mg/L	0.00054	-0.0084	mg/L	0.00054	6.50%
Se 196.026†	0.6	-0.0035	mg/L	0.00590	-0.0035	mg/L	0.00590	169.20%
Sn 189.927†	287.9	0.0945	mg/L	0.00104	0.0945	mg/L	0.00104	1.10%
Ti 337.279†	2114911.7	2.751	mg/L	0.0059	2.751	mg/L	0.0059	0.21%
Tl 190.801†	2.7	0.0201	mg/L	0.00267	0.0201	mg/L	0.00267	13.29%
V 292.402†	145013.4	0.6006	mg/L	0.00062	0.6006	mg/L	0.00062	0.10%
Zn 213.857†	27091.0	0.2975	mg/L✓	0.00019	0.2975	mg/L	0.00019	0.06%

Sequence No.: 28
Sample ID: 0606078-04
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 20
Date Collected: 6/7/2006 2:35:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606078-04

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2741188.1	2741188.1					14:37:23
1	Ag 328.068†	1442387.3	1360485.6	4.239	mg/L	4.239	mg/L	14:37:23
1	Al 237.313†	385436.1	363691.7	40.34	mg/L	40.34	mg/L	14:37:28
1	As 188.979†	218.2	204.9	0.1661	mg/L	0.1661	mg/L	14:37:48
1	B 182.528†	-24.7	8.4	0.0052	mg/L	0.0052	mg/L	14:37:48
1	Ba 233.527†	207267.9	195662.4	1.081	mg/L	1.081	mg/L	14:37:28
1	Be 313.107†	58034.8	49770.6	0.0090	mg/L	0.0090	mg/L	14:37:23
1	Ca 315.886†	5031248.2	4739115.5	32.43	mg/L	32.43	mg/L	14:37:23
1	Cd 228.802†	22752.9	21064.7	0.2528	mg/L	0.2528	mg/L	14:37:48
1	Co 228.616†	2849.8	3158.6	0.0352	mg/L	0.0352	mg/L	14:37:48
1	Cr 267.716†	1369878.4	1289878.9	8.655	mg/L	8.655	mg/L	14:37:23
1	Cu 324.752†	23025739.1	21706966.2	153.4	mg/L	153.4	mg/L	14:37:12
1	Fe 238.204†	16993405.2	16019678.1	125.6	mg/L	125.6	mg/L	14:37:12
1	Fe 234.349†	5846664.4	5512087.7	137.9	mg/L	137.9	mg/L	14:37:23
1	Mg 279.077†	390206.3	367887.1	16.68	mg/L	16.68	mg/L	14:37:28
1	Mn 257.610†	3780522.2	3563085.9	3.531	mg/L	3.531	mg/L	14:37:23
1	Mo 202.031†	3136.4	2958.4	0.2445	mg/L	0.2445	mg/L	14:37:48
1	Na 330.237†	4365.9	1614.5	2.773	mg/L	2.773	mg/L	14:37:28
1	Ni 231.604†	52794.2	49311.9	0.8866	mg/L	0.8866	mg/L	14:37:28
1	Pb 220.353†	347320.3	327545.0	37.04	mg/L	37.04	mg/L	14:37:28
1	Sb 206.836†	1843.3	1652.7	0.3749	mg/L	0.3749	mg/L	14:37:48
1	Se 196.026†	38.8	42.4	0.0532	mg/L	0.0532	mg/L	14:37:48
1	Sn 189.927†	49811.9	46853.1	15.37	mg/L	15.37	mg/L	14:37:28
1	Ti 337.279†	1542955.0	1453521.7	1.891	mg/L	1.891	mg/L	14:37:23
1	Tl 190.801†	-13.7	-1.7	-0.0026	mg/L	-0.0026	mg/L	14:37:48
1	V 292.402†	2359270.2	2222170.3	9.309	mg/L	9.309	mg/L	14:37:23
1	Zn 213.857†	1646877.7	1551594.4	17.01	mg/L	17.01	mg/L	14:37:23
2	Y 360.073	2760098.3	2760098.3					14:38:19
2	Ag 328.068†	1411691.7	1322427.7	4.121	mg/L	4.121	mg/L	14:38:19
2	Al 237.313†	387351.3	362995.3	40.27	mg/L	40.27	mg/L	14:38:24
2	As 188.979†	224.9	209.8	0.1699	mg/L	0.1699	mg/L	14:38:45
2	B 182.528†	-24.1	9.1	0.0058	mg/L	0.0058	mg/L	14:38:45
2	Ba 233.527†	208336.1	195323.8	1.079	mg/L	1.079	mg/L	14:38:24
2	Be 313.107†	57982.8	49347.0	0.0089	mg/L	0.0089	mg/L	14:38:19
2	Ca 315.886†	5046879.1	4721252.8	32.30	mg/L	32.30	mg/L	14:38:19
2	Cd 228.802†	22710.2	20877.7	0.2505	mg/L	0.2505	mg/L	14:38:45
2	Co 228.616†	2836.0	3127.4	0.0348	mg/L	0.0348	mg/L	14:38:45
2	Cr 267.716†	1373194.9	1284135.7	8.617	mg/L	8.617	mg/L	14:38:19
2	Cu 324.752†	22974519.9	21510278.2	152.0	mg/L	152.0	mg/L	14:38:08
2	Fe 238.204†	16952389.1	15871508.2	124.4	mg/L	124.4	mg/L	14:38:08
2	Fe 234.349†	5857909.8	5484851.7	137.2	mg/L	137.2	mg/L	14:38:19
2	Mg 279.077†	391917.0	366968.4	16.64	mg/L	16.64	mg/L	14:38:24
2	Mn 257.610†	3788755.4	3546375.4	3.514	mg/L	3.514	mg/L	14:38:19
2	Mo 202.031†	3152.9	2953.6	0.2440	mg/L	0.2440	mg/L	14:38:45
2	Na 330.237†	4343.4	1565.2	2.684	mg/L	2.684	mg/L	14:38:24
2	Ni 231.604†	53056.5	49216.5	0.8849	mg/L	0.8849	mg/L	14:38:24
2	Pb 220.353†	348738.7	326629.7	36.94	mg/L	36.94	mg/L	14:38:24
2	Sb 206.836†	1826.3	1624.9	0.3673	mg/L	0.3673	mg/L	14:38:45
2	Se 196.026†	37.4	40.8	0.0510	mg/L	0.0510	mg/L	14:38:45
2	Sn 189.927†	50050.6	46754.9	15.34	mg/L	15.34	mg/L	14:38:24
2	Ti 337.279†	1543748.1	1444297.9	1.879	mg/L	1.879	mg/L	14:38:19
2	Tl 190.801†	-19.1	-6.6	-0.0073	mg/L	-0.0073	mg/L	14:38:45
2	V 292.402†	2362705.4	2210147.5	9.259	mg/L	9.259	mg/L	14:38:19
2	Zn 213.857†	1652023.1	1545774.5	16.95	mg/L	16.95	mg/L	14:38:19

Mean Data: 0606078-04

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2750643.2						13371.50	0.49%
Ag 328.068†	1341456.7	4.180	mg/L	0.0838	4.180	mg/L	0.0838	2.01%

Al 237.313†	363343.5	40.31 mg/L	0.053	40.31 mg/L	0.053	0.13%
As 188.979†	207.4	0.1680 mg/L	0.00273	0.1680 mg/L	0.00273	1.63%
B 182.528†	8.8	0.0055 mg/L	0.00042	0.0055 mg/L	0.00042	7.53%
Ba 233.527†	195493.1	1.080 mg/L	0.0013	1.080 mg/L	0.0013	0.12%
Be 313.107†	49558.8	0.0090 mg/L	0.00005	0.0090 mg/L	0.00005	0.58%
Ca 315.886†	4730184.1	32.37 mg/L	0.087	32.37 mg/L	0.087	0.27%
Cd 228.802†	20971.2	0.2516 mg/L	0.00161	0.2516 mg/L	0.00161	0.64%
Co 228.616†	3143.0	0.0350 mg/L	0.00029	0.0350 mg/L	0.00029	0.82%
Cr 267.716†	1287007.3	8.636 mg/L	0.0273	8.636 mg/L	0.0273	0.32%
Cu 324.752†	21608622.2	152.7 mg/L	0.98	152.7 mg/L	0.98	0.64%
Fe 238.204†	15945593.1	125.0 mg/L	0.82	125.0 mg/L	0.82	0.66%
Fe 234.349†	5498469.7	137.6 mg/L	0.48	137.6 mg/L	0.48	0.35%
Mg 279.077†	367427.8	16.66 mg/L	0.029	16.66 mg/L	0.029	0.17%
Mn 257.610†	3554730.7	3.523 mg/L	0.0117	3.523 mg/L	0.0117	0.33%
Mo 202.031†	2956.0	0.2443 mg/L	0.00032	0.2443 mg/L	0.00032	0.13%
Na 330.237†	1589.9	2.729 mg/L	0.0627	2.729 mg/L	0.0627	2.30%
Ni 231.604†	49264.2	0.8857 mg/L	0.00122	0.8857 mg/L	0.00122	0.14%
Pb 220.353†	327087.4	36.99 mg/L	0.073	36.99 mg/L	0.073	0.20%
Sb 206.836†	1638.8	0.3711 mg/L	0.00541	0.3711 mg/L	0.00541	1.46%
Se 196.026†	41.6	0.0521 mg/L	0.00152	0.0521 mg/L	0.00152	2.91%
Sn 189.927†	46804.0	15.35 mg/L	0.023	15.35 mg/L	0.023	0.15%
Ti 337.279†	1448909.8	1.885 mg/L	0.0085	1.885 mg/L	0.0085	0.45%
Tl 190.801†	-4.2	-0.0049 mg/L	0.00332	-0.0049 mg/L	0.00332	67.52%
V 292.402†	2216158.9	9.284 mg/L	0.0356	9.284 mg/L	0.0356	0.38%
Zn 213.857†	1548684.5	16.98 mg/L	0.045	16.98 mg/L	0.045	0.26%

Sequence No.: 29
Sample ID: 0606078-05
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 21
Date Collected: 6/7/2006 2:40:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606078-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2765542.7	2765542.7					14:42:19
1	Ag 328.068†	1366859.5	1277930.4	3.982	mg/L	3.982	mg/L	14:42:19
1	Al 237.313†	391970.1	366597.5	40.62	mg/L	40.62	mg/L	14:42:25
1	As 188.979†	215.4	200.5	0.1616	mg/L	0.1616	mg/L	14:42:45
1	B 182.528†	-43.0	-8.5	-0.0083	mg/L	-0.0083	mg/L	14:42:45
1	Ba 233.527†	180061.1	168517.2	0.9301	mg/L	0.9301	mg/L	14:42:25
1	Be 313.107†	56779.2	48115.3	0.0089	mg/L	0.0089	mg/L	14:42:19
1	Ca 315.886†	3164789.9	2953164.2	20.20	mg/L	20.20	mg/L	14:42:19
1	Cd 228.802†	25718.0	23646.6	0.2844	mg/L	0.2844	mg/L	14:42:45
1	Co 228.616†	2617.1	2917.6	0.0308	mg/L	0.0308	mg/L	14:42:45
1	Cr 267.716†	1693268.4	1580708.6	10.61	mg/L	10.61	mg/L	14:42:19
1	Cu 324.752†	23534434.6	21991160.8	155.4	mg/L	155.4	mg/L	14:42:08
1	Fe 238.204†	18135909.0	16946241.8	132.8	mg/L	132.8	mg/L	14:42:08
1	Fe 234.349†	6302177.1	5889215.1	147.4	mg/L	147.4	mg/L	14:42:19
1	Mg 279.077†	357015.2	333630.8	15.07	mg/L	15.07	mg/L	14:42:25
1	Mn 257.610†	2530632.8	2363693.9	2.343	mg/L	2.343	mg/L	14:42:19
1	Mo 202.031†	4264.0	3986.1	0.3250	mg/L	0.3250	mg/L	14:42:45
1	Na 330.237†	4211.1	1433.6	2.543	mg/L	2.543	mg/L	14:42:25
1	Ni 231.604†	44411.4	41040.0	0.7375	mg/L	0.7375	mg/L	14:42:25
1	Pb 220.353†	372136.6	347851.8	39.34	mg/L	39.34	mg/L	14:42:25
1	Sb 206.836†	1904.1	1694.2	0.3630	mg/L	0.3630	mg/L	14:42:45
1	Se 196.026†	32.7	36.5	0.0451	mg/L	0.0451	mg/L	14:42:45
1	Sn 189.927†	48059.5	44802.0	14.69	mg/L	14.69	mg/L	14:42:25
1	Ti 337.279†	1642839.7	1534052.0	1.996	mg/L	1.996	mg/L	14:42:19
1	Tl 190.801†	7.8	18.5	0.0061	mg/L	0.0061	mg/L	14:42:45
1	V 292.402†	2182778.9	2037653.6	8.556	mg/L	8.556	mg/L	14:42:19
1	Zn 213.857†	1576465.7	1472122.0	16.14	mg/L	16.14	mg/L	14:42:19
2	Y 360.073	2762944.6	2762944.6					14:43:16
2	Ag 328.068†	1293743.9	1210741.8	3.773	mg/L	3.773	mg/L	14:43:16
2	Al 237.313†	398052.7	372631.4	41.30	mg/L	41.30	mg/L	14:43:21
2	As 188.979†	214.8	200.2	0.1613	mg/L	0.1613	mg/L	14:43:41
2	B 182.528†	-36.9	-2.8	-0.0037	mg/L	-0.0037	mg/L	14:43:41
2	Ba 233.527†	182713.9	171156.7	0.9448	mg/L	0.9448	mg/L	14:43:21
2	Be 313.107†	56697.2	48088.5	0.0089	mg/L	0.0089	mg/L	14:43:16

2	Ca 315.886†	3159269.2	2950781.4	20.18 mg/L	20.18 mg/L	14:43:16
2	Cd 228.802†	25797.9	23744.0	0.2856 mg/L	0.2856 mg/L	14:43:41
2	Co 228.616†	2591.7	2896.1	0.0305 mg/L	0.0305 mg/L	14:43:41
2	Cr 267.716†	1690738.6	1579830.2	10.60 mg/L	10.60 mg/L	14:43:16
2	Cu 324.752†	23546289.9	22022930.6	155.6 mg/L	155.6 mg/L	14:43:04
2	Fe 238.204†	18147406.6	16972933.1	133.0 mg/L	133.0 mg/L	14:43:04
2	Fe 234.349†	6293964.7	5887071.6	147.3 mg/L	147.3 mg/L	14:43:16
2	Mg 279.077†	361740.4	338364.3	15.29 mg/L	15.29 mg/L	14:43:21
2	Mn 257.610†	2528413.1	2363841.5	2.344 mg/L	2.344 mg/L	14:43:16
2	Mo 202.031†	4267.3	3992.9	0.3256 mg/L	0.3256 mg/L	14:43:41
2	Na 330.237†	4267.8	1490.3	2.646 mg/L	2.646 mg/L	14:43:21
2	Ni 231.604†	44981.5	41612.2	0.7478 mg/L	0.7478 mg/L	14:43:21
2	Pb 220.353†	376789.9	352531.4	39.87 mg/L	39.87 mg/L	14:43:21
2	Sb 206.836†	1886.9	1679.9	0.3589 mg/L	0.3589 mg/L	14:43:41
2	Se 196.026†	34.5	38.1	0.0473 mg/L	0.0473 mg/L	14:43:41
2	Sn 189.927†	48692.1	45436.0	14.90 mg/L	14.90 mg/L	14:43:21
2	Ti 337.279†	1639893.5	1532739.8	1.994 mg/L	1.994 mg/L	14:43:16
2	Tl 190.801†	-3.0	8.4	-0.0036 mg/L	-0.0036 mg/L	14:43:41
2	V 292.402†	2179192.3	2036216.9	8.550 mg/L	8.550 mg/L	14:43:16
2	Zn 213.857†	1576653.8	1473683.3	16.15 mg/L	16.15 mg/L	14:43:16

Mean Data: 0606078-05

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2764243.7						1837.17	0.07%
Ag 328.068†	1244336.1	3.877	mg/L	0.1479	3.877	mg/L	0.1479	3.82%
Al 237.313†	369614.5	40.96	mg/L	0.485	40.96	mg/L	0.485	1.18%
As 188.979†	200.4	0.1615	mg/L	0.00023	0.1615	mg/L	0.00023	0.14%
B 182.528†	-5.7	-0.0060	mg/L	0.00322	-0.0060	mg/L	0.00322	53.84%
Ba 233.527†	169837.0	0.9374	mg/L	0.01039	0.9374	mg/L	0.01039	1.11%
Be 313.107†	48101.9	0.0089	mg/L	0.00000	0.0089	mg/L	0.00000	0.04%
Ca 315.886†	2951972.8	20.19	mg/L	0.012	20.19	mg/L	0.012	0.06%
Cd 228.802†	23695.3	0.2850	mg/L	0.00085	0.2850	mg/L	0.00085	0.30%
Co 228.616†	2906.9	0.0306	mg/L	0.00022	0.0306	mg/L	0.00022	0.71%
Cr 267.716†	1580269.4	10.60	mg/L	0.004	10.60	mg/L	0.004	0.04%
Cu 324.752†	22007045.7	155.5	mg/L	0.16	155.5	mg/L	0.16	0.10%
Fe 238.204†	16959587.4	132.9	mg/L	0.15	132.9	mg/L	0.15	0.11%
Fe 234.349†	5888143.4	147.3	mg/L	0.04	147.3	mg/L	0.04	0.03%
Mg 279.077†	335997.5	15.18	mg/L	0.154	15.18	mg/L	0.154	1.02%
Mn 257.610†	2363767.7	2.343	mg/L	0.0001	2.343	mg/L	0.0001	0.00%
Mo 202.031†	3989.5	0.3253	mg/L	0.00037	0.3253	mg/L	0.00037	0.12%
Na 330.237†	1462.0	2.595	mg/L	0.0723	2.595	mg/L	0.0723	2.79%
Ni 231.604†	41326.1	0.7426	mg/L	0.00729	0.7426	mg/L	0.00729	0.98%
Pb 220.353†	350191.6	39.60	mg/L	0.374	39.60	mg/L	0.374	0.95%
Sb 206.836†	1687.0	0.3609	mg/L	0.00292	0.3609	mg/L	0.00292	0.81%
Se 196.026†	37.3	0.0462	mg/L	0.00158	0.0462	mg/L	0.00158	3.41%
Sn 189.927†	45119.0	14.80	mg/L	0.147	14.80	mg/L	0.147	0.99%
Ti 337.279†	1533395.9	1.995	mg/L	0.0012	1.995	mg/L	0.0012	0.06%
Tl 190.801†	13.4	0.0012	mg/L	0.00689	0.0012	mg/L	0.00689	560.53%
V 292.402†	2036935.2	8.553	mg/L	0.0043	8.553	mg/L	0.0043	0.05%
Zn 213.857†	1472902.6	16.15	mg/L	0.012	16.15	mg/L	0.012	0.07%

Sequence No.: 30
Sample ID: BF60721-DUP1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 22
Date Collected: 6/7/2006 2:45:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60721-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2763931.9	2763931.9					14:47:17
1	Ag 328.068†	1264000.3	1182498.3	3.685	mg/L	3.685	mg/L	14:47:17
1	Al 237.313†	359980.6	336899.8	37.36	mg/L	37.36	mg/L	14:47:22
1	As 188.979†	194.8	181.4	0.1453	mg/L	0.1453	mg/L	14:47:42
1	B 182.528†	-18.6	14.3	0.0100	mg/L	0.0100	mg/L	14:47:42
1	Ba 233.527†	198869.6	186201.7	1.028	mg/L	1.028	mg/L	14:47:22
1	Be 313.107†	47947.6	39888.4	0.0075	mg/L	0.0075	mg/L	14:47:17

1	Ca 315.886†	2947869.5	2752060.7	18.83 mg/L	18.83 mg/L	14:47:17
1	Cd 228.802†	23480.9	21568.8	0.2592 mg/L	0.2592 mg/L	14:47:42
1	Co 228.616†	2543.9	2850.6	0.0303 mg/L	0.0303 mg/L	14:47:42
1	Cr 267.716†	1630161.2	1522623.6	10.22 mg/L	10.22 mg/L	14:47:17
1	Cu 324.752†	21973922.5	20544851.8	145.1 mg/L	145.1 mg/L	14:47:06
1	Fe 238.204†	16251161.9	15193823.1	119.1 mg/L	119.1 mg/L	14:47:06
1	Fe 234.349†	5554328.8	5193386.6	129.9 mg/L	129.9 mg/L	14:47:17
1	Mg 279.077†	334482.5	312756.4	14.15 mg/L	14.15 mg/L	14:47:22
1	Mn 257.610†	3070207.5	2869590.8	2.844 mg/L	2.844 mg/L	14:47:17
1	Mo 202.031†	4252.6	3977.8	0.3235 mg/L	0.3235 mg/L	14:47:42
1	Na 330.237†	4471.5	1679.4	2.982 mg/L	2.982 mg/L	14:47:22
1	Ni 231.604†	60916.3	56496.8	1.016 mg/L	1.016 mg/L	14:47:22
1	Pb 220.353†	361612.0	338213.7	38.25 mg/L	38.25 mg/L	14:47:22
1	Sb 206.836†	1820.6	1617.2	0.3452 mg/L	0.3452 mg/L	14:47:42
1	Se 196.026†	38.6	41.9	0.0525 mg/L	0.0525 mg/L	14:47:42
1	Sn 189.927†	43508.9	40573.2	13.31 mg/L	13.31 mg/L	14:47:22
1	Ti 337.279†	1468075.0	1371536.4	1.784 mg/L	1.784 mg/L	14:47:17
1	Tl 190.801†	-14.0	-1.9	-0.0109 mg/L	-0.0109 mg/L	14:47:42
1	V 292.402†	2313164.9	2160757.2	9.065 mg/L	9.065 mg/L	14:47:17
1	Zn 213.857†	1482631.0	1385242.3	15.18 mg/L	15.18 mg/L	14:47:17
2	Y 360.073	2753196.9	2753196.9			14:48:13
2	Ag 328.068†	1247284.8	1171416.2	3.650 mg/L	3.650 mg/L	14:48:13
2	Al 237.313†	358521.0	336842.1	37.35 mg/L	37.35 mg/L	14:48:18
2	As 188.979†	199.4	186.4	0.1493 mg/L	0.1493 mg/L	14:48:38
2	B 182.528†	-14.0	18.5	0.0133 mg/L	0.0133 mg/L	14:48:38
2	Ba 233.527†	197963.4	186076.1	1.027 mg/L	1.027 mg/L	14:48:18
2	Be 313.107†	47909.6	40027.6	0.0075 mg/L	0.0075 mg/L	14:48:13
2	Ca 315.886†	2941993.8	2757292.7	18.86 mg/L	18.86 mg/L	14:48:13
2	Cd 228.802†	23450.5	21625.9	0.2599 mg/L	0.2599 mg/L	14:48:38
2	Co 228.616†	2560.7	2875.6	0.0306 mg/L	0.0306 mg/L	14:48:38
2	Cr 267.716†	1625304.7	1524008.2	10.22 mg/L	10.22 mg/L	14:48:13
2	Cu 324.752†	21826922.9	20486979.5	144.7 mg/L	144.7 mg/L	14:48:02
2	Fe 238.204†	16271539.3	15272199.6	119.7 mg/L	119.7 mg/L	14:48:02
2	Fe 234.349†	5542521.6	5202553.4	130.2 mg/L	130.2 mg/L	14:48:13
2	Mg 279.077†	333291.2	312857.6	14.15 mg/L	14.15 mg/L	14:48:18
2	Mn 257.610†	3061166.5	2872297.6	2.847 mg/L	2.847 mg/L	14:48:13
2	Mo 202.031†	4266.4	4006.3	0.3257 mg/L	0.3257 mg/L	14:48:38
2	Na 330.237†	4420.4	1647.7	2.923 mg/L	2.923 mg/L	14:48:18
2	Ni 231.604†	60602.5	56424.2	1.015 mg/L	1.015 mg/L	14:48:18
2	Pb 220.353†	360253.7	338257.1	38.25 mg/L	38.25 mg/L	14:48:18
2	Sb 206.836†	1806.6	1610.7	0.3432 mg/L	0.3432 mg/L	14:48:38
2	Se 196.026†	39.9	43.3	0.0544 mg/L	0.0544 mg/L	14:48:38
2	Sn 189.927†	43371.2	40602.6	13.32 mg/L	13.32 mg/L	14:48:18
2	Ti 337.279†	1458431.0	1367836.1	1.779 mg/L	1.779 mg/L	14:48:13
2	Tl 190.801†	-2.4	9.0	-0.0003 mg/L	-0.0003 mg/L	14:48:38
2	V 292.402†	2303675.0	2160282.6	9.063 mg/L	9.063 mg/L	14:48:13
2	Zn 213.857†	1480054.2	1388228.8	15.22 mg/L	15.22 mg/L	14:48:13

Mean Data: BF60721-DUP1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 360.073	2758564.4						7590.85	0.28%
Ag 328.068†	1176957.3	3.668	mg/L	0.0244	3.668	mg/L	0.0244	0.67%
Al 237.313†	336870.9	37.36	mg/L	0.006	37.36	mg/L	0.006	0.02%
As 188.979†	183.9	0.1473	mg/L	0.00280	0.1473	mg/L	0.00280	1.90%
B 182.528†	16.4	0.0116	mg/L	0.00239	0.0116	mg/L	0.00239	20.50%
Ba 233.527†	186138.9	1.028	mg/L	0.0005	1.028	mg/L	0.0005	0.05%
Be 313.107†	39958.0	0.0075	mg/L	0.00002	0.0075	mg/L	0.00002	0.23%
Ca 315.886†	2754676.7	18.84	mg/L	0.025	18.84	mg/L	0.025	0.13%
Cd 228.802†	21597.4	0.2596	mg/L	0.00048	0.2596	mg/L	0.00048	0.19%
Co 228.616†	2863.1	0.0305	mg/L	0.00026	0.0305	mg/L	0.00026	0.85%
Cr 267.716†	1523315.9	10.22	mg/L	0.007	10.22	mg/L	0.007	0.06%
Cu 324.752†	20515915.7	144.9	mg/L	0.29	144.9	mg/L	0.29	0.20%
Fe 238.204†	15233011.3	119.4	mg/L	0.43	119.4	mg/L	0.43	0.36%
Fe 234.349†	5197970.0	130.1	mg/L	0.16	130.1	mg/L	0.16	0.12%
Mg 279.077†	312807.0	14.15	mg/L	0.003	14.15	mg/L	0.003	0.02%
Mn 257.610†	2870944.2	2.845	mg/L	0.0019	2.845	mg/L	0.0019	0.07%
Mo 202.031†	3992.0	0.3246	mg/L	0.00159	0.3246	mg/L	0.00159	0.49%
Na 330.237†	1663.5	2.953	mg/L	0.0418	2.953	mg/L	0.0418	1.41%
Ni 231.604†	56460.5	1.015	mg/L	0.0009	1.015	mg/L	0.0009	0.09%

Pb 220.353†	338235.4	38.25	mg/L	0.003	38.25	mg/L	0.003 0.01%
Sb 206.836†	1613.9	0.3442	mg/L	0.00143	0.3442	mg/L	0.00143 0.41%
Se 196.026†	42.6	0.0534	mg/L	0.00135	0.0534	mg/L	0.00135 2.52%
Sn 189.927†	40587.9	13.31	mg/L	0.007	13.31	mg/L	0.007 0.05%
Ti 337.279†	1369686.3	1.782	mg/L	0.0034	1.782	mg/L	0.0034 0.19%
Tl 190.801†	3.5	-0.0056	mg/L	0.00749	-0.0056	mg/L	0.00749 133.77%
V 292.402†	2160519.9	9.064	mg/L	0.0013	9.064	mg/L	0.0013 0.01%
Zn 213.857†	1386735.6	15.20	mg/L	0.023	15.20	mg/L	0.023 0.15%

Duplicate Check: BF60721-DUP1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	3.877	3.668	0.024	mg/L	5.6
Al 237.313	40.96	37.36	0.006	mg/L	9.2
As 188.979	0.1615	0.1473	0.003	mg/L	9.2
B 182.528	-0.0060	0.0116	0.002	mg/L	622.2
Ba 233.527	0.9374	1.028	0.000	mg/L	9.2
Be 313.107	0.0089	0.0075	0.000	mg/L	17.2
Ca 315.886	20.19	18.84	0.025	mg/L	6.9
Cd 228.802	0.2850	0.2596	0.000	mg/L	9.4
Co 228.616	0.0306	0.0305	0.000	mg/L	0.5
Cr 267.716	10.60	10.22	0.007	mg/L	3.7
Cu 324.752	155.5	144.9	0.289	mg/L	7.0
Fe 238.204	132.9	119.4	0.434	mg/L	10.7
Fe 234.349	147.3	130.1	0.162	mg/L	12.5
Mg 279.077	15.18	14.15	0.003	mg/L	7.0
Mn 257.610	2.343	2.845	0.002	mg/L	19.3
Mo 202.031	0.3253	0.3246	0.002	mg/L	0.2
Na 330.237	2.595	2.953	0.042	mg/L	12.9
Ni 231.604	0.7426	1.015	0.001	mg/L	31.0
Pb 220.353	39.60	38.25	0.003	mg/L	3.5
Sb 206.836	0.3609	0.3442	0.001	mg/L	4.7
Se 196.026	0.0462	0.0534	0.001	mg/L	14.5
Sn 189.927	14.80	13.31	0.007	mg/L	10.6
Ti 337.279	1.995	1.782	0.003	mg/L	11.3
Tl 190.801	0.0012	-0.0056	0.007	mg/L	-312.6
V 292.402	8.553	9.064	0.001	mg/L	5.8
Zn 213.857	16.15	15.20	0.023	mg/L	6.0

Sequence No.: 31
Sample ID: BF60721-MS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 23
Date Collected: 6/7/2006 2:50:16 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60721-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	Y 360.073	2744832.2	2744832.2					14:52:14
1	Ag 328.068†	1222365.8	1151522.0	3.588	mg/L	3.588	mg/L	14:52:14
1	Al 237.313†	411765.6	387999.4	43.09	mg/L	43.09	mg/L	14:52:20
1	As 188.979†	787.8	741.0	0.5946	mg/L	0.5946	mg/L	14:52:40
1	B 182.528†	514.0	515.6	0.4102	mg/L	0.4102	mg/L	14:52:40
1	Ba 233.527†	232299.8	218971.5	1.211	mg/L	1.211	mg/L	14:52:20
1	Be 313.107†	347834.2	322554.7	0.0540	mg/L	0.0540	mg/L	14:52:14
1	Ca 315.886†	3610335.7	3394976.8	23.22	mg/L	23.22	mg/L	14:52:14
1	Cd 228.802†	56765.1	53059.9	0.6439	mg/L	0.6439	mg/L	14:52:20
1	Co 228.616†	35229.4	33641.7	0.4693	mg/L	0.4693	mg/L	14:52:20
1	Cr 267.716†	2030404.4	1910073.7	12.81	mg/L	12.81	mg/L	14:52:14
1	Cu 324.752†	24727866.1	23280761.2	164.5	mg/L	164.5	mg/L	14:52:03
1	Fe 238.204†	17328193.3	16313623.7	127.9	mg/L	127.9	mg/L	14:52:03
1	Fe 234.349†	5932330.6	5585427.6	139.8	mg/L	139.8	mg/L	14:52:14
1	Mg 279.077†	453745.7	427223.4	19.41	mg/L	19.41	mg/L	14:52:20
1	Mn 257.610†	4338466.8	4083679.4	4.046	mg/L	4.046	mg/L	14:52:14
1	Mo 202.031†	12538.1	11806.5	0.9360	mg/L	0.9360	mg/L	14:52:40
1	Na 330.237†	17063.3	13564.1	24.75	mg/L	24.75	mg/L	14:52:20
1	Ni 231.604†	75563.5	70684.0	1.272	mg/L	1.272	mg/L	14:52:20

1	Pb 220.353†	407294.5	383578.2	43.38 mg/L	43.38 mg/L	14:52:20
1	Sb 206.836†	3624.9	3327.9	0.8133 mg/L	0.8133 mg/L	14:52:40
1	Se 196.026†	725.9	689.3	0.9286 mg/L	0.9286 mg/L	14:52:40
1	Sn 189.927†	49184.5	46200.0	15.15 mg/L	15.15 mg/L	14:52:20
1	Ti 337.279†	2126475.2	2000996.2	2.603 mg/L	2.603 mg/L	14:52:14
1	Tl 190.801†	482.0	465.0	0.4623 mg/L	0.4623 mg/L	14:52:40
1	V 292.402†	2108412.9	1983025.9	8.344 mg/L	8.344 mg/L	14:52:14
1	Zn 213.857†	1464580.6	1377893.7	15.09 mg/L	15.09 mg/L	14:52:14
2	Y 360.073	2775125.2	2775125.2			14:53:10
2	Ag 328.068†	1227672.2	1143900.4	3.564 mg/L	3.564 mg/L	14:53:10
2	Al 237.313†	418196.5	389756.3	43.29 mg/L	43.29 mg/L	14:53:16
2	As 188.979†	789.5	734.4	0.5894 mg/L	0.5894 mg/L	14:53:36
2	B 182.528†	518.2	514.2	0.4091 mg/L	0.4091 mg/L	14:53:36
2	Ba 233.527†	235445.9	219513.7	1.214 mg/L	1.214 mg/L	14:53:16
2	Be 313.107†	351255.9	322166.2	0.0539 mg/L	0.0539 mg/L	14:53:10
2	Ca 315.886†	3646184.5	3391255.3	23.20 mg/L	23.20 mg/L	14:53:10
2	Cd 228.802†	57405.8	53073.2	0.6441 mg/L	0.6441 mg/L	14:53:16
2	Co 228.616†	35769.4	33782.5	0.4713 mg/L	0.4713 mg/L	14:53:16
2	Cr 267.716†	2050524.4	1907942.7	12.80 mg/L	12.80 mg/L	14:53:10
2	Cu 324.752†	24690495.5	22991813.1	162.4 mg/L	162.4 mg/L	14:52:59
2	Fe 238.204†	17320095.7	16127988.2	126.4 mg/L	126.4 mg/L	14:52:59
2	Fe 234.349†	5988862.6	5577102.7	139.5 mg/L	139.5 mg/L	14:53:10
2	Mg 279.077†	459214.7	427653.0	19.43 mg/L	19.43 mg/L	14:53:16
2	Mn 257.610†	4383108.6	4080662.9	4.043 mg/L	4.043 mg/L	14:53:10
2	Mo 202.031†	12519.4	11660.2	0.9246 mg/L	0.9246 mg/L	14:53:36
2	Na 330.237†	17232.3	13546.1	24.72 mg/L	24.72 mg/L	14:53:16
2	Ni 231.604†	76615.6	70887.1	1.275 mg/L	1.275 mg/L	14:53:16
2	Pb 220.353†	412428.7	384173.4	43.45 mg/L	43.45 mg/L	14:53:16
2	Sb 206.836†	3609.2	3276.0	0.7983 mg/L	0.7983 mg/L	14:53:36
2	Se 196.026†	723.7	679.8	0.9158 mg/L	0.9158 mg/L	14:53:36
2	Sn 189.927†	49878.6	46341.0	15.20 mg/L	15.20 mg/L	14:53:16
2	Ti 337.279†	2151630.4	2002566.9	2.605 mg/L	2.605 mg/L	14:53:10
2	Tl 190.801†	480.1	458.3	0.4557 mg/L	0.4557 mg/L	14:53:36
2	V 292.402†	2131783.0	1983119.8	8.345 mg/L	8.345 mg/L	14:53:10
2	Zn 213.857†	1477865.0	1375212.4	15.06 mg/L	15.06 mg/L	14:53:10

Mean Data: BF60721-MS1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2759978.7						21420.40	0.78%
Ag 328.068†	1147711.2	3.576	mg/L	0.0168	3.576	mg/L	0.0168	0.47%
Al 237.313†	388877.8	43.19	mg/L	0.142	43.19	mg/L	0.142	0.33%
As 188.979†	737.7	0.5920	mg/L	0.00369	0.5920	mg/L	0.00369	0.62%
B 182.528†	514.9	0.4096	mg/L	0.00077	0.4096	mg/L	0.00077	0.19%
Ba 233.527†	219242.6	1.213	mg/L	0.0021	1.213	mg/L	0.0021	0.18%
Be 313.107†	322360.5	0.0539	mg/L	0.00005	0.0539	mg/L	0.00005	0.09%
Ca 315.886†	3393116.1	23.21	mg/L	0.018	23.21	mg/L	0.018	0.08%
Cd 228.802†	53066.6	0.6440	mg/L	0.00013	0.6440	mg/L	0.00013	0.02%
Co 228.616†	33712.1	0.4703	mg/L	0.00143	0.4703	mg/L	0.00143	0.30%
Cr 267.716†	1909008.2	12.81	mg/L	0.010	12.81	mg/L	0.010	0.08%
Cu 324.752†	23136287.1	163.5	mg/L	1.44	163.5	mg/L	1.44	0.88%
Fe 238.204†	16220806.0	127.1	mg/L	1.03	127.1	mg/L	1.03	0.81%
Fe 234.349†	5581265.2	139.6	mg/L	0.15	139.6	mg/L	0.15	0.11%
Mg 279.077†	427438.2	19.42	mg/L	0.014	19.42	mg/L	0.014	0.07%
Mn 257.610†	4082171.2	4.045	mg/L	0.0021	4.045	mg/L	0.0021	0.05%
Mo 202.031†	11733.4	0.9303	mg/L	0.00810	0.9303	mg/L	0.00810	0.87%
Na 330.237†	13555.1	24.74	mg/L	0.023	24.74	mg/L	0.023	0.09%
Ni 231.604†	70785.5	1.273	mg/L	0.0026	1.273	mg/L	0.0026	0.20%
Pb 220.353†	383875.8	43.42	mg/L	0.048	43.42	mg/L	0.048	0.11%
Sb 206.836†	3301.9	0.8058	mg/L	0.01060	0.8058	mg/L	0.01060	1.32%
Se 196.026†	684.6	0.9222	mg/L	0.00907	0.9222	mg/L	0.00907	0.98%
Sn 189.927†	46270.5	15.18	mg/L	0.033	15.18	mg/L	0.033	0.22%
Ti 337.279†	2001781.6	2.604	mg/L	0.0014	2.604	mg/L	0.0014	0.06%
Tl 190.801†	461.7	0.4590	mg/L	0.00468	0.4590	mg/L	0.00468	1.02%
V 292.402†	1983072.9	8.345	mg/L	0.0002	8.345	mg/L	0.0002	0.00%
Zn 213.857†	1376553.1	15.08	mg/L	0.020	15.08	mg/L	0.020	0.13%

Matrix Recovery Check: BF60721-MS1

Analyte	Expected	Measured	Std.	Units	Recovery

	Conc.	Conc.	Dev.		(%)
Ag 328.068	4.127	3.576	0.017	mg/L	-120.4
Al 237.313	43.46	43.19	0.142	mg/L	89.4
As 188.979	0.6615	0.5920	0.004	mg/L	86.1
B 182.528	0.4940	0.4096	0.001	mg/L	83.1
Ba 233.527	1.437	1.213	0.002	mg/L	55.0
Be 313.107	0.0589	0.0539	0.000	mg/L	90.0
Ca 315.886	25.19	23.21	0.018	mg/L	60.4
Cd 228.802	0.5350	0.6440	0.000	mg/L	143.6
Co 228.616	0.5306	0.4703	0.001	mg/L	87.9
Cr 267.716	11.10	12.81	0.010	mg/L	440.7
Cu 324.752	156.0	163.5	1.443	mg/L	1595.6
Fe 238.204	135.4	127.1	1.029	mg/L	-231.6
Fe 234.349	149.8	139.6	0.147	mg/L	-307.4
Mg 279.077	20.18	19.42	0.014	mg/L	84.8
Mn 257.610	2.843	4.045	0.002	mg/L	340.3
Mo 202.031	0.8253	0.9303	0.008	mg/L	121.0
Na 330.237	27.59	24.74	0.023	mg/L	88.6
Ni 231.604	1.243	1.273	0.003	mg/L	106.1
Pb 220.353	40.10	43.42	0.048	mg/L	762.5
Sb 206.836	0.8609	0.8058	0.011	mg/L	89.0
Se 196.026	1.046	0.9222	0.009	mg/L	87.6
Sn 189.927	15.30	15.18	0.033	mg/L	75.8
Ti 337.279	2.495	2.604	0.001	mg/L	121.9
Tl 190.801	0.5012	0.4590	0.005	mg/L	91.6
V 292.402	9.053	8.345	0.000	mg/L	-41.6
Zn 213.857	16.65	15.08	0.020	mg/L	-213.7

Sequence No.: 32
Sample ID: BF60721-MSD1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 24
Date Collected: 6/7/2006 2:55:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60721-MSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2803229.8	2803229.8					14:57:13
1	Ag 328.068†	1289286.7	1189241.9	3.706	mg/L	3.706	mg/L	14:57:13
1	Al 237.313†	478599.4	441538.5	49.06	mg/L	49.06	mg/L	14:57:19
1	As 188.979†	853.5	786.1	0.6327	mg/L	0.6327	mg/L	14:57:39
1	B 182.528†	540.6	530.0	0.4217	mg/L	0.4217	mg/L	14:57:39
1	Ba 233.527†	256599.8	236817.7	1.308	mg/L	1.308	mg/L	14:57:19
1	Be 313.107†	368558.9	334838.7	0.0560	mg/L	0.0560	mg/L	14:57:13
1	Ca 315.886†	4112530.6	3787147.0	25.91	mg/L	25.91	mg/L	14:57:13
1	Cd 228.802†	48541.5	44364.9	0.5361	mg/L	0.5361	mg/L	14:57:19
1	Co 228.616†	36993.4	34576.9	0.4822	mg/L	0.4822	mg/L	14:57:19
1	Cr 267.716†	2061252.2	1898687.9	12.74	mg/L	12.74	mg/L	14:57:13
1	Cu 324.752†	25937361.8	23910801.0	168.9	mg/L	168.9	mg/L	14:57:02
1	Fe 238.204†	19326707.4	17816217.1	139.6	mg/L	139.6	mg/L	14:57:02
1	Fe 234.349†	6806104.8	6274620.7	157.0	mg/L	157.0	mg/L	14:57:13
1	Mg 279.077†	529330.1	488006.5	22.17	mg/L	22.17	mg/L	14:57:19
1	Mn 257.610†	3129313.9	2883838.1	2.859	mg/L	2.859	mg/L	14:57:13
1	Mo 202.031†	9853.0	9085.2	0.7262	mg/L	0.7262	mg/L	14:57:39
1	Na 330.237†	17650.3	13770.6	25.03	mg/L	25.03	mg/L	14:57:19
1	Ni 231.604†	85285.9	78165.1	1.406	mg/L	1.406	mg/L	14:57:19
1	Pb 220.353†	402873.3	371513.4	42.02	mg/L	42.02	mg/L	14:57:19
1	Sb 206.836†	3637.9	3268.8	0.7972	mg/L	0.7972	mg/L	14:57:39
1	Se 196.026†	744.5	692.2	0.9326	mg/L	0.9326	mg/L	14:57:39
1	Sn 189.927†	55607.6	51156.9	16.78	mg/L	16.78	mg/L	14:57:19
1	Ti 337.279†	2376927.1	2190184.0	2.849	mg/L	2.849	mg/L	14:57:13
1	Tl 190.801†	539.2	508.3	0.4687	mg/L	0.4687	mg/L	14:57:39
1	V 292.402†	2860684.3	2635206.6	11.06	mg/L	11.06	mg/L	14:57:13
1	Zn 213.857†	1736320.9	1599690.4	17.53	mg/L	17.53	mg/L	14:57:13
2	Y 360.073	2815472.2	2815472.2					14:58:09
2	Ag 328.068†	1268413.8	1164914.0	3.631	mg/L	3.631	mg/L	14:58:09
2	Al 237.313†	477903.5	438981.1	48.77	mg/L	48.77	mg/L	14:58:15
2	As 188.979†	850.0	779.5	0.6275	mg/L	0.6275	mg/L	14:58:35
2	B 182.528†	548.3	534.9	0.4256	mg/L	0.4256	mg/L	14:58:35

2	Ba 233.527†	256716.8	235896.5	1.303 mg/L	1.303 mg/L	14:58:15
2	Be 313.107†	370870.4	335483.0	0.0561 mg/L	0.0561 mg/L	14:58:09
2	Ca 315.886†	4137482.6	3793564.8	25.96 mg/L	25.96 mg/L	14:58:09
2	Cd 228.802†	48551.8	44179.9	0.5339 mg/L	0.5339 mg/L	14:58:15
2	Co 228.616†	37011.3	34445.1	0.4803 mg/L	0.4803 mg/L	14:58:15
2	Cr 267.716†	2072466.0	1900718.2	12.75 mg/L	12.75 mg/L	14:58:09
2	Cu 324.752†	26098524.5	23954758.1	169.2 mg/L	169.2 mg/L	14:57:58
2	Fe 238.204†	19421332.0	17825598.5	139.7 mg/L	139.7 mg/L	14:57:58
2	Fe 234.349†	6838667.6	6277226.6	157.1 mg/L	157.1 mg/L	14:58:09
2	Mg 279.077†	530657.6	487103.0	22.13 mg/L	22.13 mg/L	14:58:15
2	Mn 257.610†	3144469.8	2885205.3	2.860 mg/L	2.860 mg/L	14:58:09
2	Mo 202.031†	9821.0	9016.2	0.7208 mg/L	0.7208 mg/L	14:58:35
2	Na 330.237†	17457.8	13523.2	24.58 mg/L	24.58 mg/L	14:58:15
2	Ni 231.604†	85424.8	77950.8	1.403 mg/L	1.403 mg/L	14:58:15
2	Pb 220.353†	403705.1	370661.9	41.92 mg/L	41.92 mg/L	14:58:15
2	Sb 206.836†	3635.3	3251.8	0.7921 mg/L	0.7921 mg/L	14:58:35
2	Se 196.026†	733.6	679.2	0.9150 mg/L	0.9150 mg/L	14:58:35
2	Sn 189.927†	55787.0	51098.7	16.76 mg/L	16.76 mg/L	14:58:15
2	Ti 337.279†	2388327.8	2191120.4	2.850 mg/L	2.850 mg/L	14:58:09
2	Tl 190.801†	549.7	515.8	0.4760 mg/L	0.4760 mg/L	14:58:35
2	V 292.402†	2874663.0	2636570.1	11.06 mg/L	11.06 mg/L	14:58:09
2	Zn 213.857†	1744258.4	1600015.8	17.54 mg/L	17.54 mg/L	14:58:09

Mean Data: BF60721-MSD1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2809351.0						8656.66	0.31%
Ag 328.068†	1177078.0	3.668	mg/L	0.0536	3.668	mg/L	0.0536	1.46%
Al 237.313†	440259.8	48.91	mg/L	0.206	48.91	mg/L	0.206	0.42%
As 188.979†	782.8	0.6301	mg/L	0.00374	0.6301	mg/L	0.00374	0.59%
B 182.528†	532.5	0.4236	mg/L	0.00278	0.4236	mg/L	0.00278	0.66%
Ba 233.527†	236357.1	1.306	mg/L	0.0036	1.306	mg/L	0.0036	0.28%
Be 313.107†	335160.9	0.0560	mg/L	0.00008	0.0560	mg/L	0.00008	0.13%
Ca 315.886†	3790355.9	25.94	mg/L	0.031	25.94	mg/L	0.031	0.12%
Cd 228.802†	44272.4	0.5350	mg/L	0.00160	0.5350	mg/L	0.00160	0.30%
Co 228.616†	34511.0	0.4812	mg/L	0.00134	0.4812	mg/L	0.00134	0.28%
Cr 267.716†	1899703.0	12.75	mg/L	0.010	12.75	mg/L	0.010	0.08%
Cu 324.752†	23932779.5	169.1	mg/L	0.22	169.1	mg/L	0.22	0.13%
Fe 238.204†	17820907.8	139.7	mg/L	0.05	139.7	mg/L	0.05	0.04%
Fe 234.349†	6275923.7	157.0	mg/L	0.05	157.0	mg/L	0.05	0.03%
Mg 279.077†	487554.7	22.15	mg/L	0.030	22.15	mg/L	0.030	0.13%
Mn 257.610†	2884521.7	2.860	mg/L	0.0010	2.860	mg/L	0.0010	0.03%
Mo 202.031†	9050.7	0.7235	mg/L	0.00381	0.7235	mg/L	0.00381	0.53%
Na 330.237†	13646.9	24.81	mg/L	0.320	24.81	mg/L	0.320	1.29%
Ni 231.604†	78058.0	1.404	mg/L	0.0027	1.404	mg/L	0.0027	0.19%
Pb 220.353†	371087.6	41.97	mg/L	0.068	41.97	mg/L	0.068	0.16%
Sb 206.836†	3260.3	0.7946	mg/L	0.00362	0.7946	mg/L	0.00362	0.46%
Se 196.026†	685.7	0.9238	mg/L	0.01244	0.9238	mg/L	0.01244	1.35%
Sn 189.927†	51127.8	16.77	mg/L	0.014	16.77	mg/L	0.014	0.08%
Ti 337.279†	2190652.2	2.850	mg/L	0.0009	2.850	mg/L	0.0009	0.03%
Tl 190.801†	512.1	0.4724	mg/L	0.00515	0.4724	mg/L	0.00515	1.09%
V 292.402†	2635888.4	11.06	mg/L	0.004	11.06	mg/L	0.004	0.04%
Zn 213.857†	1599853.1	17.53	mg/L	0.002	17.53	mg/L	0.002	0.01%

Duplicate Check: BF60721-MSD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	3.576	3.668	0.054	mg/L	2.5
Al 237.313	43.19	48.91	0.206	mg/L	12.4
As 188.979	0.5920	0.6301	0.004	mg/L	6.2
B 182.528	0.4096	0.4236	0.003	mg/L	3.4
Ba 233.527	1.213	1.306	0.004	mg/L	7.4
Be 313.107	0.0539	0.0560	0.000	mg/L	3.8
Ca 315.886	23.21	25.94	0.031	mg/L	11.1
Cd 228.802	0.6440	0.5350	0.002	mg/L	18.5
Co 228.616	0.4703	0.4812	0.001	mg/L	2.3
Cr 267.716	12.81	12.75	0.010	mg/L	0.5
Cu 324.752	163.5	169.1	0.220	mg/L	3.4

Fe 238.204	127.1	139.7	0.052	mg/L	9.4
Fe 234.349	139.6	157.0	0.046	mg/L	11.7
Mg 279.077	19.42	22.15	0.030	mg/L	13.1
Mn 257.610	4.045	2.860	0.001	mg/L	34.3
Mo 202.031	0.9303	0.7235	0.004	mg/L	25.0
Na 330.237	24.74	24.81	0.320	mg/L	0.3
Ni 231.604	1.273	1.404	0.003	mg/L	9.8
Pb 220.353	43.42	41.97	0.068	mg/L	3.4
Sb 206.836	0.8058	0.7946	0.004	mg/L	1.4
Se 196.026	0.9222	0.9238	0.012	mg/L	0.2
Sn 189.927	15.18	16.77	0.014	mg/L	10.0
Ti 337.279	2.604	2.850	0.001	mg/L	9.0
Tl 190.801	0.4590	0.4724	0.005	mg/L	2.9
V 292.402	8.345	11.06	0.004	mg/L	28.0
Zn 213.857	15.08	17.53	0.002	mg/L	15.1

Sequence No.: 33
Sample ID: BF60721-SD1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 25
Date Collected: 6/7/2006 3:00:14 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60721-SD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2709262.3	2709262.3					15:02:02
1	Ag 328.068†	393299.2	375787.0	1.171	mg/L	1.171	mg/L	15:02:02
1	Al 237.313†	81972.8	78500.7	8.680	mg/L	8.680	mg/L	15:02:07
1	As 188.979†	46.2	43.3	0.0328	mg/L	0.0328	mg/L	15:02:27
1	B 182.528†	-25.4	7.4	0.0045	mg/L	0.0045	mg/L	15:02:27
1	Ba 233.527†	37889.2	36395.1	0.1995	mg/L	0.1995	mg/L	15:02:07
1	Be 313.107†	15762.3	10091.7	0.0018	mg/L	0.0018	mg/L	15:02:07
1	Ca 315.886†	668358.0	633258.6	4.309	mg/L	4.309	mg/L	15:02:02
1	Cd 228.802†	5766.9	5114.5	0.0612	mg/L	0.0612	mg/L	15:02:27
1	Co 228.616†	168.8	633.0	0.0049	mg/L	0.0049	mg/L	15:02:27
1	Cr 267.716†	354983.7	336991.7	2.260	mg/L	2.260	mg/L	15:02:02
1	Cu 324.752†	5381276.0	5131756.5	36.25	mg/L	36.25	mg/L	15:01:51
1	Fe 238.204†	4405567.7	4200956.3	32.92	mg/L	32.92	mg/L	15:02:02
1	Fe 234.349†	1413332.0	1348095.3	33.73	mg/L	33.73	mg/L	15:02:02
1	Mg 279.077†	77035.6	73489.3	3.309	mg/L	3.309	mg/L	15:02:07
1	Mn 257.610†	538948.2	512955.3	0.5068	mg/L	0.5068	mg/L	15:02:02
1	Mo 202.031†	895.0	855.2	0.0678	mg/L	0.0678	mg/L	15:02:27
1	Na 330.237†	2853.3	220.1	0.6697	mg/L	0.6697	mg/L	15:02:07
1	Ni 231.604†	9784.2	8871.2	0.1576	mg/L	0.1576	mg/L	15:02:07
1	Pb 220.353†	80273.6	76668.3	8.669	mg/L	8.669	mg/L	15:02:07
1	Sb 206.836†	477.1	369.9	0.0783	mg/L	0.0783	mg/L	15:02:27
1	Se 196.026†	4.7	10.4	0.0098	mg/L	0.0098	mg/L	15:02:27
1	Sn 189.927†	10171.0	9593.1	3.142	mg/L	3.142	mg/L	15:02:27
1	Ti 337.279†	333801.4	317254.3	0.4127	mg/L	0.4127	mg/L	15:02:07
1	Tl 190.801†	6.8	17.7	0.0232	mg/L	0.0232	mg/L	15:02:27
1	V 292.402†	452811.8	429814.1	1.804	mg/L	1.804	mg/L	15:02:02
1	Zn 213.857†	366898.0	348920.6	3.824	mg/L	3.824	mg/L	15:02:02
2	Y 360.073	2729638.3	2729638.3					15:02:48
2	Ag 328.068†	395599.1	375164.0	1.169	mg/L	1.169	mg/L	15:02:48
2	Al 237.313†	82233.8	78164.2	8.642	mg/L	8.642	mg/L	15:02:53
2	As 188.979†	47.6	44.3	0.0336	mg/L	0.0336	mg/L	15:03:13
2	B 182.528†	-27.0	6.1	0.0034	mg/L	0.0034	mg/L	15:03:13
2	Ba 233.527†	38123.6	36347.2	0.1992	mg/L	0.1992	mg/L	15:02:53
2	Be 313.107†	15786.5	10002.4	0.0018	mg/L	0.0018	mg/L	15:02:53
2	Ca 315.886†	671426.5	631404.7	4.296	mg/L	4.296	mg/L	15:02:48
2	Cd 228.802†	5761.3	5068.1	0.0607	mg/L	0.0607	mg/L	15:03:13
2	Co 228.616†	170.5	633.3	0.0049	mg/L	0.0049	mg/L	15:03:13
2	Cr 267.716†	356588.5	335983.4	2.253	mg/L	2.253	mg/L	15:02:48
2	Cu 324.752†	5380191.8	5092412.1	35.98	mg/L	35.98	mg/L	15:02:37
2	Fe 238.204†	4422807.7	4185908.5	32.80	mg/L	32.80	mg/L	15:02:48
2	Fe 234.349†	1420492.8	1344811.3	33.64	mg/L	33.64	mg/L	15:02:48
2	Mg 279.077†	77072.7	72975.9	3.285	mg/L	3.285	mg/L	15:02:53
2	Mn 257.610†	541364.5	511405.4	0.5052	mg/L	0.5052	mg/L	15:02:48
2	Mo 202.031†	892.2	846.2	0.0671	mg/L	0.0671	mg/L	15:03:13

2	Na 330.237†	2859.4	205.6	0.6436 mg/L	0.6436 mg/L	15:02:53
2	Ni 231.604†	9813.3	8829.1	0.1569 mg/L	0.1569 mg/L	15:02:53
2	Pb 220.353†	80554.3	76362.5	8.635 mg/L	8.635 mg/L	15:02:53
2	Sb 206.836†	466.8	356.8	0.0745 mg/L	0.0745 mg/L	15:03:13
2	Se 196.026†	1.4	7.2	0.0056 mg/L	0.0056 mg/L	15:03:13
2	Sn 189.927†	10146.6	9497.7	3.110 mg/L	3.110 mg/L	15:03:13
2	Ti 337.279†	334371.4	315417.0	0.4103 mg/L	0.4103 mg/L	15:02:53
2	Tl 190.801†	-3.3	8.1	0.0138 mg/L	0.0138 mg/L	15:03:13
2	V 292.402†	455461.6	429098.7	1.801 mg/L	1.801 mg/L	15:02:48
2	Zn 213.857†	368626.9	347945.0	3.813 mg/L	3.813 mg/L	15:02:48

Mean Data: BF60721-SD1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2719450.3						14408.02	0.53%
Ag 328.068†	375475.5	1.170	mg/L	0.0014	1.170	mg/L	0.0014	0.12%
Al 237.313†	78332.5	8.661	mg/L	0.0266	8.661	mg/L	0.0266	0.31%
As 188.979†	43.8	0.0332	mg/L	0.00058	0.0332	mg/L	0.00058	1.73%
B 182.528†	6.8	0.0039	mg/L	0.00073	0.0039	mg/L	0.00073	18.61%
Ba 233.527†	36371.1	0.1993	mg/L	0.00019	0.1993	mg/L	0.00019	0.09%
Be 313.107†	10047.0	0.0018	mg/L	0.00001	0.0018	mg/L	0.00001	0.61%
Ca 315.886†	632331.7	4.302	mg/L	0.0090	4.302	mg/L	0.0090	0.21%
Cd 228.802†	5091.3	0.0610	mg/L	0.00040	0.0610	mg/L	0.00040	0.66%
Co 228.616†	633.1	0.0049	mg/L	0.00001	0.0049	mg/L	0.00001	0.18%
Cr 267.716†	336487.6	2.256	mg/L	0.0048	2.256	mg/L	0.0048	0.21%
Cu 324.752†	5112084.3	36.11	mg/L	0.197	36.11	mg/L	0.197	0.54%
Fe 238.204†	4193432.4	32.86	mg/L	0.083	32.86	mg/L	0.083	0.25%
Fe 234.349†	1346453.3	33.68	mg/L	0.058	33.68	mg/L	0.058	0.17%
Mg 279.077†	73232.6	3.297	mg/L	0.0166	3.297	mg/L	0.0166	0.50%
Mn 257.610†	512180.4	0.5060	mg/L	0.00109	0.5060	mg/L	0.00109	0.21%
Mo 202.031†	850.7	0.0674	mg/L	0.00051	0.0674	mg/L	0.00051	0.75%
Na 330.237†	212.9	0.6567	mg/L	0.01850	0.6567	mg/L	0.01850	2.82%
Ni 231.604†	8850.2	0.1572	mg/L	0.00054	0.1572	mg/L	0.00054	0.34%
Pb 220.353†	76515.4	8.652	mg/L	0.0245	8.652	mg/L	0.0245	0.28%
Sb 206.836†	363.4	0.0764	mg/L	0.00266	0.0764	mg/L	0.00266	3.48%
Se 196.026†	8.8	0.0077	mg/L	0.00303	0.0077	mg/L	0.00303	39.30%
Sn 189.927†	9545.4	3.126	mg/L	0.0221	3.126	mg/L	0.0221	0.71%
Ti 337.279†	316335.7	0.4115	mg/L	0.00169	0.4115	mg/L	0.00169	0.41%
Tl 190.801†	12.9	0.0185	mg/L	0.00658	0.0185	mg/L	0.00658	35.56%
V 292.402†	429456.4	1.803	mg/L	0.0021	1.803	mg/L	0.0021	0.12%
Zn 213.857†	348432.8	3.819	mg/L	0.0075	3.819	mg/L	0.0075	0.20%

Dilution Check: BF60721-SD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
Y 360.073			0.000	mg/L	Not calculated
Ag 328.068	0.7755	1.170	0.001	mg/L	50.9
Al 237.313	8.192	8.661	0.027	mg/L	5.7
As 188.979	0.0323	0.0332	0.001	mg/L	2.9
B 182.528	-0.0012	0.0039	0.001	mg/L	-429.8
Ba 233.527	0.1875	0.1993	0.000	mg/L	6.3
Be 313.107	0.0018	0.0018	0.000	mg/L	0.2
Ca 315.886	4.039	4.302	0.009	mg/L	6.5
Cd 228.802	0.0570	0.0610	0.000	mg/L	6.9
Co 228.616	0.0061	0.0049	0.000	mg/L	19.9
Cr 267.716	2.121	2.256	0.005	mg/L	6.4
Cu 324.752	31.09	36.11	0.197	mg/L	16.1
Fe 238.204	26.59	32.86	0.083	mg/L	23.6
Fe 234.349	29.47	33.68	0.058	mg/L	14.3
Mg 279.077	3.036	3.297	0.017	mg/L	8.6
Mn 257.610	0.4687	0.5060	0.001	mg/L	8.0
Mo 202.031	0.0651	0.0674	0.001	mg/L	3.6
Na 330.237	0.5189	0.6567	0.018	mg/L	26.5
Ni 231.604	0.1485	0.1572	0.001	mg/L	5.9
Pb 220.353	7.921	8.652	0.024	mg/L	9.2
Sb 206.836	0.0722	0.0764	0.003	mg/L	5.9
Se 196.026	0.0092	0.0077	0.003	mg/L	16.7
Sn 189.927	2.960	3.126	0.022	mg/L	5.6
Ti 337.279	0.3989	0.4115	0.002	mg/L	3.2

Tl 190.801	0.0002	0.0185	0.007	mg/L	7428.7
V 292.402	1.711	1.803	0.002	mg/L	5.4
Zn 213.857	3.229	3.819	0.008	mg/L	18.2

Sequence No.: 34
Sample ID: BF62701-PDS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 26
Date Collected: 6/7/2006 3:04:52 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF62701-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2773652.5	2773652.5					15:06:51
1	Ag 328.068†	1509014.3	1406649.0	4.383	mg/L	4.383	mg/L	15:06:51
1	Al 237.313†	413239.7	385344.5	42.74	mg/L	42.74	mg/L	15:06:56
1	As 188.979†	837.9	779.9	0.6262	mg/L	0.6262	mg/L	15:07:16
1	B 182.528†	575.0	567.4	0.4515	mg/L	0.4515	mg/L	15:07:16
1	Ba 233.527†	268703.1	250617.7	1.387	mg/L	1.387	mg/L	15:06:56
1	Be 313.107†	371083.2	340814.0	0.0568	mg/L	0.0568	mg/L	15:06:51
1	Ca 315.886†	3876454.9	3607613.4	24.68	mg/L	24.68	mg/L	15:06:51
1	Cd 228.802†	46863.8	43279.0	0.5235	mg/L	0.5235	mg/L	15:06:56
1	Co 228.616†	38218.2	36081.9	0.5055	mg/L	0.5055	mg/L	15:06:56
1	Cr 267.716†	1743943.1	1623298.4	10.89	mg/L	10.89	mg/L	15:06:51
1	Cu 324.752†	23279767.5	21689570.9	153.2	mg/L	153.2	mg/L	15:06:39
1	Fe 238.204†	18203379.2	16959554.8	132.9	mg/L	132.9	mg/L	15:06:39
1	Fe 234.349†	6320881.1	5889423.3	147.4	mg/L	147.4	mg/L	15:06:51
1	Mg 279.077†	463345.4	431728.8	19.60	mg/L	19.60	mg/L	15:06:56
1	Mn 257.610†	2997464.0	2791751.1	2.767	mg/L	2.767	mg/L	15:06:51
1	Mo 202.031†	10811.6	10075.2	0.8015	mg/L	0.8015	mg/L	15:07:16
1	Na 330.237†	18346.9	14593.1	26.56	mg/L	26.56	mg/L	15:06:56
1	Ni 231.604†	72754.5	67327.4	1.211	mg/L	1.211	mg/L	15:06:56
1	Pb 220.353†	375768.4	350219.0	39.61	mg/L	39.61	mg/L	15:06:56
1	Sb 206.836†	3594.0	3263.6	0.8183	mg/L	0.8183	mg/L	15:07:16
1	Se 196.026†	769.2	722.5	0.9736	mg/L	0.9736	mg/L	15:07:16
1	Sn 189.927†	49883.4	46370.1	15.21	mg/L	15.21	mg/L	15:06:56
1	Ti 337.279†	1977021.7	1840938.5	2.395	mg/L	2.395	mg/L	15:06:51
1	Tl 190.801†	550.1	523.8	0.4965	mg/L	0.4965	mg/L	15:07:16
1	V 292.402†	2268202.6	2111283.4	8.864	mg/L	8.864	mg/L	15:06:51
1	Zn 213.857†	1614224.5	1502996.5	16.48	mg/L	16.48	mg/L	15:06:51
2	Y 360.073	2793803.8	2793803.8					15:07:47
2	Ag 328.068†	1486677.0	1375844.8	4.287	mg/L	4.287	mg/L	15:07:47
2	Al 237.313†	413249.0	382575.9	42.43	mg/L	42.43	mg/L	15:07:52
2	As 188.979†	835.5	772.1	0.6200	mg/L	0.6200	mg/L	15:08:12
2	B 182.528†	580.2	568.4	0.4523	mg/L	0.4523	mg/L	15:08:12
2	Ba 233.527†	269481.4	249531.8	1.381	mg/L	1.381	mg/L	15:07:52
2	Be 313.107†	372478.4	339610.8	0.0566	mg/L	0.0566	mg/L	15:07:47
2	Ca 315.886†	3889103.4	3593261.5	24.58	mg/L	24.58	mg/L	15:07:47
2	Cd 228.802†	46926.7	43022.3	0.5204	mg/L	0.5204	mg/L	15:07:52
2	Co 228.616†	38303.7	35904.1	0.5030	mg/L	0.5030	mg/L	15:07:52
2	Cr 267.716†	1751084.1	1618183.7	10.86	mg/L	10.86	mg/L	15:07:47
2	Cu 324.752†	23378157.3	21624130.6	152.8	mg/L	152.8	mg/L	15:07:36
2	Fe 238.204†	18284294.7	16912066.6	132.6	mg/L	132.6	mg/L	15:07:36
2	Fe 234.349†	6339591.9	5864251.2	146.7	mg/L	146.7	mg/L	15:07:47
2	Mg 279.077†	464997.3	430142.9	19.53	mg/L	19.53	mg/L	15:07:52
2	Mn 257.610†	3007424.3	2780819.9	2.756	mg/L	2.756	mg/L	15:07:47
2	Mo 202.031†	10837.5	10026.5	0.7976	mg/L	0.7976	mg/L	15:08:12
2	Na 330.237†	18307.3	14433.3	26.27	mg/L	26.27	mg/L	15:07:52
2	Ni 231.604†	73101.6	67159.6	1.208	mg/L	1.208	mg/L	15:07:52
2	Pb 220.353†	376939.3	348776.8	39.45	mg/L	39.45	mg/L	15:07:52
2	Sb 206.836†	3598.0	3243.1	0.8128	mg/L	0.8128	mg/L	15:08:12
2	Se 196.026†	776.5	724.2	0.9759	mg/L	0.9759	mg/L	15:08:12
2	Sn 189.927†	50036.0	46176.0	15.15	mg/L	15.15	mg/L	15:07:52
2	Ti 337.279†	1987154.9	1837025.3	2.390	mg/L	2.390	mg/L	15:07:47
2	Tl 190.801†	561.5	530.6	0.5031	mg/L	0.5031	mg/L	15:08:12
2	V 292.402†	2277940.0	2105047.1	8.838	mg/L	8.838	mg/L	15:07:47
2	Zn 213.857†	1619043.7	1496605.9	16.41	mg/L	16.41	mg/L	15:07:47

Mean Data: BF62701-PDS1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 360.073	2783728.1						14249.12	0.51%
Ag 328.068†	1391246.9	4.335	mg/L	0.0678	4.335	mg/L	0.0678	1.56%
Al 237.313†	383960.2	42.59	mg/L	0.219	42.59	mg/L	0.219	0.52%
As 188.979†	776.0	0.6231	mg/L	0.00440	0.6231	mg/L	0.00440	0.71%
B 182.528†	567.9	0.4519	mg/L	0.00056	0.4519	mg/L	0.00056	0.12%
Ba 233.527†	250074.7	1.384	mg/L	0.0043	1.384	mg/L	0.0043	0.31%
Be 313.107†	340212.4	0.0567	mg/L	0.00014	0.0567	mg/L	0.00014	0.25%
Ca 315.886†	3600437.4	24.63	mg/L	0.069	24.63	mg/L	0.069	0.28%
Cd 228.802†	43150.7	0.5219	mg/L	0.00220	0.5219	mg/L	0.00220	0.42%
Co 228.616†	35993.0	0.5043	mg/L	0.00179	0.5043	mg/L	0.00179	0.35%
Cr 267.716†	1620741.0	10.87	mg/L	0.024	10.87	mg/L	0.024	0.22%
Cu 324.752†	21656850.7	153.0	mg/L	0.33	153.0	mg/L	0.33	0.21%
Fe 238.204†	16935810.7	132.7	mg/L	0.26	132.7	mg/L	0.26	0.20%
Fe 234.349†	5876837.3	147.0	mg/L	0.45	147.0	mg/L	0.45	0.30%
Mg 279.077†	430935.9	19.56	mg/L	0.051	19.56	mg/L	0.051	0.26%
Mn 257.610†	2786285.5	2.762	mg/L	0.0077	2.762	mg/L	0.0077	0.28%
Mo 202.031†	10050.9	0.7995	mg/L	0.00274	0.7995	mg/L	0.00274	0.34%
Na 330.237†	14513.2	26.42	mg/L	0.205	26.42	mg/L	0.205	0.78%
Ni 231.604†	67243.5	1.209	mg/L	0.0021	1.209	mg/L	0.0021	0.18%
Pb 220.353†	349497.9	39.53	mg/L	0.115	39.53	mg/L	0.115	0.29%
Sb 206.836†	3253.4	0.8155	mg/L	0.00393	0.8155	mg/L	0.00393	0.48%
Se 196.026†	723.4	0.9747	mg/L	0.00158	0.9747	mg/L	0.00158	0.16%
Sn 189.927†	46273.1	15.18	mg/L	0.045	15.18	mg/L	0.045	0.30%
Ti 337.279†	1838981.9	2.392	mg/L	0.0036	2.392	mg/L	0.0036	0.15%
Tl 190.801†	527.2	0.4998	mg/L	0.00470	0.4998	mg/L	0.00470	0.94%
V 292.402†	2108165.2	8.851	mg/L	0.0185	8.851	mg/L	0.0185	0.21%
Zn 213.857†	1499801.2	16.44	mg/L	0.050	16.44	mg/L	0.050	0.30%

Matrix Recovery Check: BF62701-PDS1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
Ag 328.068	4.127	4.335	0.068	mg/L	183.0
Al 237.313	43.46	42.59	0.219	mg/L	65.2
As 188.979	0.6615	0.6231	0.004	mg/L	92.3
B 182.528	0.4940	0.4519	0.001	mg/L	91.6
Ba 233.527	1.437	1.384	0.004	mg/L	89.3
Be 313.107	0.0589	0.0567	0.000	mg/L	95.6
Ca 315.886	25.19	24.63	0.069	mg/L	88.8
Cd 228.802	0.5350	0.5219	0.002	mg/L	94.8
Co 228.616	0.5306	0.5043	0.002	mg/L	94.7
Cr 267.716	11.10	10.87	0.024	mg/L	54.3
Cu 324.752	156.0	153.0	0.327	mg/L	-494.8
Fe 238.204	135.4	132.7	0.263	mg/L	-7.4
Fe 234.349	149.8	147.0	0.445	mg/L	-11.5
Mg 279.077	20.18	19.56	0.051	mg/L	87.6
Mn 257.610	2.843	2.762	0.008	mg/L	83.7
Mo 202.031	0.8253	0.7995	0.003	mg/L	94.9
Na 330.237	27.59	26.42	0.205	mg/L	95.3
Ni 231.604	1.243	1.209	0.002	mg/L	93.4
Pb 220.353	40.10	39.53	0.115	mg/L	-15.3
Sb 206.836	0.8609	0.8155	0.004	mg/L	90.9
Se 196.026	1.046	0.9747	0.002	mg/L	92.9
Sn 189.927	15.30	15.18	0.045	mg/L	75.9
Ti 337.279	2.495	2.392	0.004	mg/L	79.5
Tl 190.801	0.5012	0.4998	0.005	mg/L	99.7
V 292.402	9.053	8.851	0.019	mg/L	59.6
Zn 213.857	16.65	16.44	0.050	mg/L	59.0

Sequence No.: 35
Sample ID: 0606078-08
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 27
Date Collected: 6/7/2006 3:09:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606078-08

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2792069.7	2792069.7					15:11:41
1	Ag 328.068†	612123.1	567205.3	1.767	mg/L	1.767	mg/L	15:11:41
1	Al 237.313†	555662.4	514632.2	57.34	mg/L	57.34	mg/L	15:11:41
1	As 188.979†	66.3	60.6	0.0619	mg/L	0.0619	mg/L	15:12:07
1	B 182.528†	-9.5	22.9	0.0168	mg/L	0.0168	mg/L	15:12:07
1	Ba 233.527†	101002.3	93741.1	0.5199	mg/L	0.5199	mg/L	15:11:47
1	Be 313.107†	27485.0	20496.4	0.0038	mg/L	0.0038	mg/L	15:11:47
1	Ca 315.886†	3701753.8	3422083.7	23.39	mg/L	23.39	mg/L	15:11:41
1	Cd 228.802†	1527.9	1027.7	0.0079	mg/L	0.0079	mg/L	15:12:07
1	Co 228.616†	3005.7	3254.0	0.0374	mg/L	0.0374	mg/L	15:12:07
1	Cr 267.716†	320604.9	295127.7	1.985	mg/L	1.985	mg/L	15:11:47
1	Cu 324.752†	5472653.7	5064095.7	35.78	mg/L	35.78	mg/L	15:11:32
1	Fe 238.204†	19571031.6	18113584.3	142.0	mg/L	142.0	mg/L	15:11:32
1	Fe 234.349†	7007269.7	6485900.9	162.3	mg/L	162.3	mg/L	15:11:41
1	Mg 279.077†	377231.0	349172.9	15.76	mg/L	15.76	mg/L	15:11:47
1	Mn 257.610†	1845013.8	1706612.0	1.693	mg/L	1.693	mg/L	15:11:41
1	Mo 202.031†	233.1	217.2	0.0258	mg/L	0.0258	mg/L	15:12:07
1	Na 330.237†	4966.2	2095.2	4.469	mg/L	4.469	mg/L	15:11:47
1	Ni 231.604†	33751.3	30778.6	0.5525	mg/L	0.5525	mg/L	15:11:47
1	Pb 220.353†	40943.0	37992.6	4.297	mg/L	4.297	mg/L	15:11:47
1	Sb 206.836†	195.3	95.6	0.0015	mg/L	0.0015	mg/L	15:12:07
1	Se 196.026†	-10.7	-4.0	-0.0097	mg/L	-0.0097	mg/L	15:12:07
1	Sn 189.927†	7625.4	6949.2	2.280	mg/L	2.280	mg/L	15:12:07
1	Ti 337.279†	2393471.7	2214256.8	2.880	mg/L	2.880	mg/L	15:11:41
1	Tl 190.801†	-35.7	-21.8	0.0195	mg/L	0.0195	mg/L	15:12:07
1	V 292.402†	55670.5	49406.8	0.2169	mg/L	0.2169	mg/L	15:11:47
1	Zn 213.857†	643855.7	594894.9	6.534	mg/L	6.534	mg/L	15:11:41
2	Y 360.073	2785861.6	2785861.6					15:12:29
2	Ag 328.068†	609614.5	566140.8	1.763	mg/L	1.763	mg/L	15:12:29
2	Al 237.313†	553185.1	513480.2	57.21	mg/L	57.21	mg/L	15:12:29
2	As 188.979†	64.8	59.4	0.0609	mg/L	0.0609	mg/L	15:12:54
2	B 182.528†	-15.9	16.9	0.0120	mg/L	0.0120	mg/L	15:12:54
2	Ba 233.527†	100612.8	93588.1	0.5190	mg/L	0.5190	mg/L	15:12:34
2	Be 313.107†	27442.6	20513.7	0.0038	mg/L	0.0038	mg/L	15:12:34
2	Ca 315.886†	3686593.8	3415655.8	23.35	mg/L	23.35	mg/L	15:12:29
2	Cd 228.802†	1540.8	1042.9	0.0081	mg/L	0.0081	mg/L	15:12:54
2	Co 228.616†	3041.1	3293.0	0.0380	mg/L	0.0380	mg/L	15:12:54
2	Cr 267.716†	319001.4	294301.5	1.979	mg/L	1.979	mg/L	15:12:34
2	Cu 324.752†	5419638.7	5026203.6	35.51	mg/L	35.51	mg/L	15:12:19
2	Fe 238.204†	19583787.1	18165785.7	142.4	mg/L	142.4	mg/L	15:12:19
2	Fe 234.349†	6977437.4	6472680.1	162.0	mg/L	162.0	mg/L	15:12:29
2	Mg 279.077†	375641.3	348476.4	15.73	mg/L	15.73	mg/L	15:12:34
2	Mn 257.610†	1838099.0	1704002.9	1.691	mg/L	1.691	mg/L	15:12:29
2	Mo 202.031†	221.3	206.8	0.0250	mg/L	0.0250	mg/L	15:12:54
2	Na 330.237†	4988.2	2125.7	4.523	mg/L	4.523	mg/L	15:12:34
2	Ni 231.604†	33625.3	30731.4	0.5516	mg/L	0.5516	mg/L	15:12:34
2	Pb 220.353†	40883.0	38021.4	4.300	mg/L	4.300	mg/L	15:12:34
2	Sb 206.836†	197.6	98.2	0.0023	mg/L	0.0023	mg/L	15:12:54
2	Se 196.026†	-11.4	-4.7	-0.0106	mg/L	-0.0106	mg/L	15:12:54
2	Sn 189.927†	7654.7	6992.1	2.294	mg/L	2.294	mg/L	15:12:54
2	Ti 337.279†	2385786.5	2212064.3	2.877	mg/L	2.877	mg/L	15:12:29
2	Tl 190.801†	-62.3	-46.6	-0.0046	mg/L	-0.0046	mg/L	15:12:54
2	V 292.402†	55365.8	49239.0	0.2161	mg/L	0.2161	mg/L	15:12:34
2	Zn 213.857†	642443.3	594912.6	6.534	mg/L	6.534	mg/L	15:12:29

Mean Data: 0606078-08

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2788965.6						4389.82	0.16%
Ag 328.068†	566673.0	1.765	mg/L	0.0023	1.765	mg/L	0.0023	0.13%
Al 237.313†	514056.2	57.28	mg/L	0.091	57.28	mg/L	0.091	0.16%
As 188.979†	60.0	0.0614	mg/L	0.00070	0.0614	mg/L	0.00070	1.15%
B 182.528†	19.9	0.0144	mg/L	0.00340	0.0144	mg/L	0.00340	23.60%
Ba 233.527†	93664.6	0.5195	mg/L	0.00060	0.5195	mg/L	0.00060	0.12%
Be 313.107†	20505.0	0.0038	mg/L	0.00000	0.0038	mg/L	0.00000	0.03%
Ca 315.886†	3418869.7	23.37	mg/L	0.031	23.37	mg/L	0.031	0.13%
Cd 228.802†	1035.3	0.0080	mg/L	0.00014	0.0080	mg/L	0.00014	1.73%
Co 228.616†	3273.5	0.0377	mg/L	0.00040	0.0377	mg/L	0.00040	1.07%

Cr 267.716†	294714.6	1.982 mg/L		0.0039	1.982 mg/L	0.0039	0.20%
Cu 324.752†	5045149.6	35.64 mg/L		0.189	35.64 mg/L	0.189	0.53%
Fe 238.204†	18139685.0	142.2 mg/L		0.29	142.2 mg/L	0.29	0.20%
Fe 234.349†	6479290.5	162.1 mg/L		0.23	162.1 mg/L	0.23	0.14%
Mg 279.077†	348824.6	15.75 mg/L		0.022	15.75 mg/L	0.022	0.14%
Mn 257.610†	1705307.4	1.692 mg/L		0.0018	1.692 mg/L	0.0018	0.11%
Mo 202.031†	212.0	0.0254 mg/L		0.00060	0.0254 mg/L	0.00060	2.35%
Na 330.237†	2110.5	4.496 mg/L		0.0385	4.496 mg/L	0.0385	0.86%
Ni 231.604†	30755.0	0.5521 mg/L		0.00060	0.5521 mg/L	0.00060	0.11%
Pb 220.353†	38007.0	4.298 mg/L		0.0023	4.298 mg/L	0.0023	0.05%
Sb 206.836†	96.9	0.0019 mg/L		0.00058	0.0019 mg/L	0.00058	29.74%
Se 196.026†	-4.4	-0.0102 mg/L		0.00067	-0.0102 mg/L	0.00067	6.57%
Sn 189.927†	6970.7	2.287 mg/L		0.0100	2.287 mg/L	0.0100	0.44%
Ti 337.279†	2213160.5	2.879 mg/L		0.0020	2.879 mg/L	0.0020	0.07%
Tl 190.801†	-34.2	0.0074 mg/L		0.01705	0.0074 mg/L	0.01705	229.77%
V 292.402†	49322.9	0.2165 mg/L		0.00052	0.2165 mg/L	0.00052	0.24%
Zn 213.857†	594903.8	6.534 mg/L		0.0002	6.534 mg/L	0.0002	0.00%

Sequence No.: 36
Sample ID: 0606078-09
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 28
Date Collected: 6/7/2006 3:14:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606078-09

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2741771.3	2741771.3					15:16:15
1	Ag 328.068†	115601.9	109584.7	0.3416	mg/L	0.3416	mg/L	15:16:20
1	Al 237.313†	671950.3	633679.2	71.39	mg/L	71.39	mg/L	15:16:15
1	As 188.979†	32.8	30.1	0.0460	mg/L	0.0460	mg/L	15:16:40
1	B 182.528†	-22.5	10.5	0.0069	mg/L	0.0069	mg/L	15:16:40
1	Ba 233.527†	35099.4	33336.9	0.1833	mg/L	0.1833	mg/L	15:16:20
1	Be 313.107†	22038.3	15829.0	0.0026	mg/L	0.0026	mg/L	15:16:20
1	Ca 315.886†	261876.3	242554.6	1.632	mg/L	1.632	mg/L	15:16:20
1	Cd 228.802†	718.8	291.0	0.0003	mg/L	0.0003	mg/L	15:16:40
1	Co 228.616†	1122.6	1530.1	0.0113	mg/L	0.0113	mg/L	15:16:40
1	Cr 267.716†	17144.3	14533.4	0.1000	mg/L	0.1000	mg/L	15:16:20
1	Cu 324.752†	232898.2	218094.2	1.541	mg/L	1.541	mg/L	15:16:15
1	Fe 238.204†	11233479.2	10587034.4	82.97	mg/L	82.97	mg/L	15:16:08
1	Fe 234.349†	3787599.8	3570066.0	89.33	mg/L	89.33	mg/L	15:16:15
1	Mg 279.077†	171799.9	161941.6	7.273	mg/L	7.273	mg/L	15:16:20
1	Mn 257.610†	524253.4	493008.5	0.4889	mg/L	0.4889	mg/L	15:16:15
1	Mo 202.031†	83.4	80.1	0.0103	mg/L	0.0103	mg/L	15:16:40
1	Na 330.237†	5514.0	2695.8	5.702	mg/L	5.702	mg/L	15:16:20
1	Ni 231.604†	6269.0	5447.3	0.0959	mg/L	0.0959	mg/L	15:16:40
1	Pb 220.353†	12708.5	12074.4	1.370	mg/L	1.370	mg/L	15:16:20
1	Sb 206.836†	75.8	-13.7	-0.0073	mg/L	-0.0073	mg/L	15:16:40
1	Se 196.026†	-12.5	-5.9	-0.0123	mg/L	-0.0123	mg/L	15:16:40
1	Sn 189.927†	574.2	432.3	0.1449	mg/L	0.1449	mg/L	15:16:40
1	Ti 337.279†	3304143.8	3113287.5	4.050	mg/L	4.050	mg/L	15:16:15
1	Tl 190.801†	-12.0	-0.1	0.0239	mg/L	0.0239	mg/L	15:16:40
1	V 292.402†	170967.0	159029.2	0.6579	mg/L	0.6579	mg/L	15:16:20
1	Zn 213.857†	29081.3	26349.0	0.2905	mg/L	0.2905	mg/L	15:16:20
2	Y 360.073	2749706.9	2749706.9					15:16:54
2	Ag 328.068†	115637.2	109303.3	0.3407	mg/L	0.3407	mg/L	15:17:00
2	Al 237.313†	674478.0	634227.0	71.45	mg/L	71.45	mg/L	15:16:54
2	As 188.979†	33.5	30.8	0.0466	mg/L	0.0466	mg/L	15:17:20
2	B 182.528†	-9.6	22.7	0.0166	mg/L	0.0166	mg/L	15:17:20
2	Ba 233.527†	34983.9	33132.9	0.1821	mg/L	0.1821	mg/L	15:17:00
2	Be 313.107†	22052.8	15782.8	0.0026	mg/L	0.0026	mg/L	15:17:00
2	Ca 315.886†	261491.8	241480.8	1.625	mg/L	1.625	mg/L	15:17:00
2	Cd 228.802†	721.2	291.3	0.0003	mg/L	0.0003	mg/L	15:17:20
2	Co 228.616†	1158.8	1561.0	0.0117	mg/L	0.0117	mg/L	15:17:20
2	Cr 267.716†	17155.7	14497.5	0.0998	mg/L	0.0998	mg/L	15:17:00
2	Cu 324.752†	232547.8	217131.3	1.534	mg/L	1.534	mg/L	15:16:54
2	Fe 238.204†	11282293.1	10602354.5	83.09	mg/L	83.09	mg/L	15:16:47
2	Fe 234.349†	3807752.9	3578703.9	89.55	mg/L	89.55	mg/L	15:16:54
2	Mg 279.077†	171520.6	161211.8	7.239	mg/L	7.239	mg/L	15:17:00

2	Mn 257.610†	526891.4	494061.8	0.4899 mg/L	0.4899 mg/L	15:16:54
2	Mo 202.031†	84.3	80.7	0.0104 mg/L	0.0104 mg/L	15:17:20
2	Na 330.237†	5473.3	2642.6	5.606 mg/L	5.606 mg/L	15:17:00
2	Ni 231.604†	6317.5	5475.8	0.0964 mg/L	0.0964 mg/L	15:17:20
2	Pb 220.353†	12705.4	12036.9	1.366 mg/L	1.366 mg/L	15:17:00
2	Sb 206.836†	77.5	-12.2	-0.0069 mg/L	-0.0069 mg/L	15:17:20
2	Se 196.026†	-7.5	-1.1	-0.0058 mg/L	-0.0058 mg/L	15:17:20
2	Sn 189.927†	584.2	440.1	0.1475 mg/L	0.1475 mg/L	15:17:20
2	Ti 337.279†	3320019.8	3119220.6	4.058 mg/L	4.058 mg/L	15:16:54
2	Tl 190.801†	-10.1	1.7	0.0258 mg/L	0.0258 mg/L	15:17:20
2	V 292.402†	170472.6	158099.5	0.6540 mg/L	0.6540 mg/L	15:17:00
2	Zn 213.857†	28892.9	26092.7	0.2877 mg/L	0.2877 mg/L	15:17:00

Mean Data: 0606078-09

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2745739.1						5611.34	0.20%
Ag 328.068†	109444.0	0.3411	mg/L	0.00062	0.3411	mg/L	0.00062	0.18%
Al 237.313†	633953.1	71.42	mg/L	0.043	71.42	mg/L	0.043	0.06%
As 188.979†	30.4	0.0463	mg/L	0.00040	0.0463	mg/L	0.00040	0.86%
B 182.528†	16.6	0.0118	mg/L	0.00687	0.0118	mg/L	0.00687	58.33%
Ba 233.527†	33234.9	0.1827	mg/L	0.00080	0.1827	mg/L	0.00080	0.44%
Be 313.107†	15805.9	0.0026	mg/L	0.00001	0.0026	mg/L	0.00001	0.19%
Ca 315.886†	242017.7	1.629	mg/L	0.0052	1.629	mg/L	0.0052	0.32%
Cd 228.802†	291.2	0.0003	mg/L	0.00000	0.0003	mg/L	0.00000	0.86%
Co 228.616†	1545.5	0.0115	mg/L	0.00030	0.0115	mg/L	0.00030	2.63%
Cr 267.716†	14515.5	0.0999	mg/L	0.00016	0.0999	mg/L	0.00016	0.16%
Cu 324.752†	217612.8	1.538	mg/L	0.0048	1.538	mg/L	0.0048	0.31%
Fe 238.204†	10594694.4	83.03	mg/L	0.085	83.03	mg/L	0.085	0.10%
Fe 234.349†	3574385.0	89.44	mg/L	0.153	89.44	mg/L	0.153	0.17%
Mg 279.077†	161576.7	7.256	mg/L	0.0241	7.256	mg/L	0.0241	0.33%
Mn 257.610†	493535.1	0.4894	mg/L	0.00074	0.4894	mg/L	0.00074	0.15%
Mo 202.031†	80.4	0.0103	mg/L	0.00004	0.0103	mg/L	0.00004	0.40%
Na 330.237†	2669.2	5.654	mg/L	0.0678	5.654	mg/L	0.0678	1.20%
Ni 231.604†	5461.5	0.0961	mg/L	0.00036	0.0961	mg/L	0.00036	0.38%
Pb 220.353†	12055.6	1.368	mg/L	0.0030	1.368	mg/L	0.0030	0.22%
Sb 206.836†	-13.0	-0.0071	mg/L	0.00031	-0.0071	mg/L	0.00031	4.34%
Se 196.026†	-3.5	-0.0090	mg/L	0.00459	-0.0090	mg/L	0.00459	50.87%
Sn 189.927†	436.2	0.1462	mg/L	0.00182	0.1462	mg/L	0.00182	1.25%
Ti 337.279†	3116254.1	4.054	mg/L	0.0055	4.054	mg/L	0.0055	0.13%
Tl 190.801†	0.8	0.0248	mg/L	0.00132	0.0248	mg/L	0.00132	5.31%
V 292.402†	158564.3	0.6559	mg/L	0.00274	0.6559	mg/L	0.00274	0.42%
Zn 213.857†	26220.8	0.2891	mg/L	0.00199	0.2891	mg/L	0.00199	0.69%

Sequence No.: 37
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/7/2006 3:18:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2627446.4	2627446.4					15:20:31
1	Ag 328.068†	168942.1	166791.4	0.5196	mg/L	0.5196	mg/L	15:20:37
1	Al 237.313†	22284.6	22226.2	2.501	mg/L	2.501	mg/L	15:20:37
1	As 188.979†	649.2	637.8	0.5092	mg/L	0.5092	mg/L	15:20:57
1	B 182.528†	618.1	639.6	0.5092	mg/L	0.5092	mg/L	15:20:57
1	Ba 233.527†	92227.1	90967.4	0.5042	mg/L	0.5042	mg/L	15:20:37
1	Be 313.107†	320361.3	310163.8	0.0507	mg/L	0.0507	mg/L	15:20:31
1	Ca 315.886†	763990.7	747175.5	5.085	mg/L	5.085	mg/L	15:20:31
1	Cd 228.802†	21300.9	20565.1	0.2499	mg/L	0.2499	mg/L	15:20:37
1	Co 228.616†	35596.2	35484.4	0.5054	mg/L	0.5054	mg/L	15:20:37
1	Cr 267.716†	78602.3	75686.7	0.5057	mg/L	0.5057	mg/L	15:20:37
1	Cu 324.752†	115190.5	111868.7	0.7891	mg/L	0.7891	mg/L	15:20:37
1	Fe 238.204†	335303.2	328298.1	2.566	mg/L	2.566	mg/L	15:20:37
1	Fe 234.349†	104627.0	102831.8	2.561	mg/L	2.561	mg/L	15:20:37
1	Mg 279.077†	111321.5	109501.1	5.035	mg/L	5.035	mg/L	15:20:37

1	Mn 257.610†	525175.2	515416.7	0.5081 mg/L	0.5081 mg/L	15:20:37
1	Mo 202.031†	6592.7	6486.1	0.5052 mg/L	0.5052 mg/L	15:20:57
1	Na 330.237†	16234.7	13466.8	24.96 mg/L	24.96 mg/L	15:20:37
1	Ni 231.604†	29186.6	28246.1	0.5065 mg/L	0.5065 mg/L	15:20:37
1	Pb 220.353†	4481.5	4503.5	0.5100 mg/L	0.5100 mg/L	15:20:57
1	Sb 206.836†	1854.8	1739.2	0.5002 mg/L	0.5002 mg/L	15:20:57
1	Se 196.026†	747.0	740.6	0.9980 mg/L	0.9980 mg/L	15:20:57
1	Sn 189.927†	1690.0	1553.4	0.5045 mg/L	0.5045 mg/L	15:20:57
1	Ti 337.279†	395648.2	388001.9	0.5047 mg/L	0.5047 mg/L	15:20:37
1	Tl 190.801†	584.6	586.2	0.5792 mg/L	0.5792 mg/L	15:20:57
1	V 292.402†	125782.5	121597.7	0.5083 mg/L	0.5083 mg/L	15:20:37
1	Zn 213.857†	49803.3	47923.9	0.5228 mg/L	0.5228 mg/L	15:20:37
2	Y 360.073	2619748.7	2619748.7			15:21:03
2	Ag 328.068†	167921.5	166272.9	0.5180 mg/L	0.5180 mg/L	15:21:09
2	Al 237.313†	22424.6	22428.7	2.524 mg/L	2.524 mg/L	15:21:09
2	As 188.979†	644.5	635.0	0.5069 mg/L	0.5069 mg/L	15:21:29
2	B 182.528†	617.7	641.0	0.5103 mg/L	0.5103 mg/L	15:21:29
2	Ba 233.527†	92490.7	91494.0	0.5071 mg/L	0.5071 mg/L	15:21:09
2	Be 313.107†	319876.8	310611.9	0.0508 mg/L	0.0508 mg/L	15:21:03
2	Ca 315.886†	763234.3	748637.5	5.095 mg/L	5.095 mg/L	15:21:03
2	Cd 228.802†	21394.5	20719.0	0.2518 mg/L	0.2518 mg/L	15:21:09
2	Co 228.616†	35727.0	35716.3	0.5087 mg/L	0.5087 mg/L	15:21:09
2	Cr 267.716†	78781.6	76090.8	0.5084 mg/L	0.5084 mg/L	15:21:09
2	Cu 324.752†	112865.1	109907.7	0.7752 mg/L	0.7752 mg/L	15:21:09
2	Fe 238.204†	335265.4	329229.9	2.573 mg/L	2.573 mg/L	15:21:09
2	Fe 234.349†	104608.9	103116.3	2.568 mg/L	2.568 mg/L	15:21:09
2	Mg 279.077†	111738.3	110234.1	5.069 mg/L	5.069 mg/L	15:21:09
2	Mn 257.610†	526594.0	518334.2	0.5110 mg/L	0.5110 mg/L	15:21:09
2	Mo 202.031†	6629.8	6541.6	0.5095 mg/L	0.5095 mg/L	15:21:29
2	Na 330.237†	16258.3	13537.0	25.09 mg/L	25.09 mg/L	15:21:09
2	Ni 231.604†	29259.5	28402.4	0.5093 mg/L	0.5093 mg/L	15:21:09
2	Pb 220.353†	4485.9	4520.8	0.5120 mg/L	0.5120 mg/L	15:21:29
2	Sb 206.836†	1860.6	1750.3	0.5034 mg/L	0.5034 mg/L	15:21:29
2	Se 196.026†	750.7	746.4	1.006 mg/L	1.006 mg/L	15:21:29
2	Sn 189.927†	1690.3	1558.6	0.5062 mg/L	0.5062 mg/L	15:21:29
2	Ti 337.279†	396037.2	389529.2	0.5067 mg/L	0.5067 mg/L	15:21:09
2	Tl 190.801†	572.0	575.4	0.5687 mg/L	0.5687 mg/L	15:21:29
2	V 292.402†	126059.6	122234.5	0.5109 mg/L	0.5109 mg/L	15:21:09
2	Zn 213.857†	49811.4	48075.8	0.5244 mg/L	0.5244 mg/L	15:21:09

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2623597.6						5443.11	0.21%
Ag 328.068†	166532.1	0.5188	mg/L	0.00114	0.5188	mg/L	0.00114	0.22%
QC value greater than the upper limit for Ag 328.068 Recovery = 207.53%								
Al 237.313†	22327.4	2.513	mg/L	0.0162	2.513	mg/L	0.0162	0.65%
QC value within limits for Al 237.313 Recovery = 100.52%								
As 188.979†	636.4	0.5080	mg/L	0.00160	0.5080	mg/L	0.00160	0.31%
QC value within limits for As 188.979 Recovery = 101.61%								
B 182.528†	640.3	0.5097	mg/L	0.00080	0.5097	mg/L	0.00080	0.16%
QC value within limits for B 182.528 Recovery = 101.94%								
Ba 233.527†	91230.7	0.5057	mg/L	0.00207	0.5057	mg/L	0.00207	0.41%
QC value within limits for Ba 233.527 Recovery = 101.14%								
Be 313.107†	310387.8	0.0507	mg/L	0.00005	0.0507	mg/L	0.00005	0.10%
QC value within limits for Be 313.107 Recovery = 101.43%								
Ca 315.886†	747906.5	5.090	mg/L	0.0071	5.090	mg/L	0.0071	0.14%
QC value within limits for Ca 315.886 Recovery = 101.81%								
Cd 228.802†	20642.1	0.2509	mg/L	0.00134	0.2509	mg/L	0.00134	0.53%
QC value within limits for Cd 228.802 Recovery = 100.35%								
Co 228.616†	35600.3	0.5070	mg/L	0.00235	0.5070	mg/L	0.00235	0.46%
QC value within limits for Co 228.616 Recovery = 101.41%								
Cr 267.716†	75888.8	0.5070	mg/L	0.00192	0.5070	mg/L	0.00192	0.38%
QC value within limits for Cr 267.716 Recovery = 101.41%								
Cu 324.752†	110888.2	0.7821	mg/L	0.00980	0.7821	mg/L	0.00980	1.25%
QC value greater than the upper limit for Cu 324.752 Recovery = 156.42%								
Fe 238.204†	328764.0	2.569	mg/L	0.0052	2.569	mg/L	0.0052	0.20%
QC value within limits for Fe 238.204 Recovery = 102.77%								
Fe 234.349†	102974.1	2.564	mg/L	0.0050	2.564	mg/L	0.0050	0.20%
QC value within limits for Fe 234.349 Recovery = 102.56%								

Mg 279.077†	109867.6	5.052 mg/L	0.0239	5.052 mg/L	0.0239	0.47%
QC value within limits for Mg 279.077 Recovery = 101.04%						
Mn 257.610†	516875.5	0.5096 mg/L	0.00204	0.5096 mg/L	0.00204	0.40%
QC value within limits for Mn 257.610 Recovery = 101.92%						
Mo 202.031†	6513.9	0.5073 mg/L	0.00307	0.5073 mg/L	0.00307	0.61%
QC value within limits for Mo 202.031 Recovery = 101.47%						
Na 330.237†	13501.9	25.03 mg/L	0.091	25.03 mg/L	0.091	0.36%
QC value within limits for Na 330.237 Recovery = 100.10%						
Ni 231.604†	28324.2	0.5079 mg/L	0.00199	0.5079 mg/L	0.00199	0.39%
QC value within limits for Ni 231.604 Recovery = 101.59%						
Pb 220.353†	4512.2	0.5110 mg/L	0.00139	0.5110 mg/L	0.00139	0.27%
QC value within limits for Pb 220.353 Recovery = 102.19%						
Sb 206.836†	1744.8	0.5018 mg/L	0.00226	0.5018 mg/L	0.00226	0.45%
QC value within limits for Sb 206.836 Recovery = 100.36%						
Se 196.026†	743.5	1.002 mg/L	0.0056	1.002 mg/L	0.0056	0.55%
QC value within limits for Se 196.026 Recovery = 100.20%						
Sn 189.927†	1556.0	0.5053 mg/L	0.00121	0.5053 mg/L	0.00121	0.24%
QC value within limits for Sn 189.927 Recovery = 101.07%						
Ti 337.279†	388765.6	0.5057 mg/L	0.00140	0.5057 mg/L	0.00140	0.28%
QC value within limits for Ti 337.279 Recovery = 101.14%						
Tl 190.801†	580.8	0.5740 mg/L	0.00738	0.5740 mg/L	0.00738	1.29%
QC value greater than the upper limit for Tl 190.801 Recovery = 114.79%						
V 292.402†	121916.1	0.5096 mg/L	0.00189	0.5096 mg/L	0.00189	0.37%
QC value within limits for V 292.402 Recovery = 101.92%						
Zn 213.857†	47999.8	0.5236 mg/L	0.00118	0.5236 mg/L	0.00118	0.22%
QC value within limits for Zn 213.857 Recovery = 104.72%						

QC Failed. Continue with analysis.

Sequence No.: 38
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/7/2006 3:23:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2583024.6	2583024.6					15:24:37
1	Ag 328.068†	76315.3	76974.4	0.2398	mg/L	0.2398	mg/L	15:24:43
1	Al 237.313†	-277.6	29.3	0.0002	mg/L	0.0002	mg/L	15:25:03
1	As 188.979†	4.6	3.8	0.0005	mg/L	0.0005	mg/L	15:25:03
1	B 182.528†	-28.6	3.0	0.0010	mg/L	0.0010	mg/L	15:25:03
1	Ba 233.527†	-246.2	6.3	-0.0018	mg/L	-0.0018	mg/L	15:25:03
1	Be 313.107†	5036.8	95.5	-0.0001	mg/L	-0.0001	mg/L	15:24:37
1	Ca 315.886†	4469.5	184.9	-0.0279	mg/L	-0.0279	mg/L	15:24:43
1	Cd 228.802†	384.1	-2.2	-0.0004	mg/L	-0.0004	mg/L	15:25:03
1	Co 228.616†	-446.8	24.9	-0.0020	mg/L	-0.0020	mg/L	15:25:03
1	Cr 267.716†	1812.2	186.5	-0.0007	mg/L	-0.0007	mg/L	15:24:43
1	Cu 324.752†	28384.3	26966.1	0.1890	mg/L	0.1890	mg/L	15:24:43
1	Fe 238.204†	4224.2	2719.8	0.0128	mg/L	0.0128	mg/L	15:24:43
1	Fe 234.349†	927.2	848.2	0.0132	mg/L	0.0132	mg/L	15:25:03
1	Mg 279.077†	-55.6	-50.4	-0.0136	mg/L	-0.0136	mg/L	15:24:43
1	Mn 257.610†	1486.2	340.5	-0.0020	mg/L	-0.0020	mg/L	15:24:43
1	Mo 202.031†	25.6	27.1	-0.0005	mg/L	-0.0005	mg/L	15:25:03
1	Na 330.237†	2472.5	-27.9	0.3299	mg/L	0.3299	mg/L	15:24:43
1	Ni 231.604†	459.4	-2.2	-0.0023	mg/L	-0.0023	mg/L	15:25:03
1	Pb 220.353†	-76.6	18.9	0.0006	mg/L	0.0006	mg/L	15:25:03
1	Sb 206.836†	83.7	-1.4	-0.0025	mg/L	-0.0025	mg/L	15:25:03
1	Se 196.026†	-5.0	0.9	-0.0031	mg/L	-0.0031	mg/L	15:25:03
1	Sn 189.927†	93.3	-15.6	-0.0114	mg/L	-0.0114	mg/L	15:25:03
1	Ti 337.279†	1516.8	359.3	0.0005	mg/L	0.0005	mg/L	15:24:43
1	Tl 190.801†	-5.3	5.9	0.0162	mg/L	0.0162	mg/L	15:25:03
1	V 292.402†	2214.1	93.1	-0.0007	mg/L	-0.0007	mg/L	15:24:43
1	Zn 213.857†	2436.6	1375.2	0.0131	mg/L	0.0131	mg/L	15:25:03
2	Y 360.073	2607746.9	2607746.9					15:25:09
2	Ag 328.068†	71937.5	71912.0	0.2241	mg/L	0.2241	mg/L	15:25:14
2	Al 237.313†	-289.4	20.2	-0.0008	mg/L	-0.0008	mg/L	15:25:34
2	As 188.979†	2.3	1.5	-0.0014	mg/L	-0.0014	mg/L	15:25:34
2	B 182.528†	-24.6	7.2	0.0043	mg/L	0.0043	mg/L	15:25:34

2	Ba 233.527†	-233.9	20.9	-0.0017 mg/L	-0.0017 mg/L	15:25:34
2	Be 313.107†	5066.1	76.7	-0.0001 mg/L	-0.0001 mg/L	15:25:09
2	Ca 315.886†	4383.1	57.0	-0.0288 mg/L	-0.0288 mg/L	15:25:14
2	Cd 228.802†	399.5	9.4	-0.0002 mg/L	-0.0002 mg/L	15:25:34
2	Co 228.616†	-466.3	9.8	-0.0022 mg/L	-0.0022 mg/L	15:25:34
2	Cr 267.716†	1799.8	157.1	-0.0009 mg/L	-0.0009 mg/L	15:25:14
2	Cu 324.752†	27091.3	25415.6	0.1781 mg/L	0.1781 mg/L	15:25:14
2	Fe 238.204†	4002.7	2460.2	0.0108 mg/L	0.0108 mg/L	15:25:14
2	Fe 234.349†	874.2	786.8	0.0117 mg/L	0.0117 mg/L	15:25:34
2	Mg 279.077†	-51.4	-45.8	-0.0134 mg/L	-0.0134 mg/L	15:25:14
2	Mn 257.610†	1514.3	354.4	-0.0020 mg/L	-0.0020 mg/L	15:25:14
2	Mo 202.031†	17.9	19.2	-0.0012 mg/L	-0.0012 mg/L	15:25:34
2	Na 330.237†	2428.3	-95.1	0.2072 mg/L	0.2072 mg/L	15:25:14
2	Ni 231.604†	462.5	-3.5	-0.0024 mg/L	-0.0024 mg/L	15:25:34
2	Pb 220.353†	-76.1	20.1	0.0007 mg/L	0.0007 mg/L	15:25:34
2	Sb 206.836†	86.7	0.8	-0.0019 mg/L	-0.0019 mg/L	15:25:34
2	Se 196.026†	-0.5	5.4	0.0030 mg/L	0.0030 mg/L	15:25:34
2	Sn 189.927†	87.1	-22.6	-0.0137 mg/L	-0.0137 mg/L	15:25:34
2	Ti 337.279†	1508.6	336.8	0.0004 mg/L	0.0004 mg/L	15:25:14
2	Tl 190.801†	-1.7	9.5	0.0198 mg/L	0.0198 mg/L	15:25:34
2	V 292.402†	2253.1	110.6	-0.0006 mg/L	-0.0006 mg/L	15:25:14
2	Zn 213.857†	2365.6	1281.7	0.0121 mg/L	0.0121 mg/L	15:25:34

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2595385.8						17481.34	0.67%
Ag 328.068†	74443.2	0.2320	mg/L	0.01115	0.2320	mg/L	0.01115	4.81%
QC value greater than the upper limit for Ag 328.068 Recovery = Not calculated								
Al 237.313†	24.8	-0.0003	mg/L	0.00073	-0.0003	mg/L	0.00073	238.25%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	2.7	-0.0004	mg/L	0.00130	-0.0004	mg/L	0.00130	295.47%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	5.1	0.0026	mg/L	0.00239	0.0026	mg/L	0.00239	90.42%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	13.6	-0.0018	mg/L	0.00006	-0.0018	mg/L	0.00006	3.26%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	86.1	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	2.28%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	121.0	-0.0284	mg/L	0.00062	-0.0284	mg/L	0.00062	2.18%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	3.6	-0.0003	mg/L	0.00010	-0.0003	mg/L	0.00010	37.04%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	17.3	-0.0021	mg/L	0.00015	-0.0021	mg/L	0.00015	7.26%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	171.8	-0.0008	mg/L	0.00014	-0.0008	mg/L	0.00014	18.17%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	26190.8	0.1836	mg/L	0.00775	0.1836	mg/L	0.00775	4.22%
QC value greater than the upper limit for Cu 324.752 Recovery = Not calculated								
Fe 238.204†	2590.0	0.0118	mg/L	0.00144	0.0118	mg/L	0.00144	12.16%
QC value within limits for Fe 238.204 Recovery = Not calculated								
Fe 234.349†	817.5	0.0125	mg/L	0.00109	0.0125	mg/L	0.00109	8.70%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Mg 279.077†	-48.1	-0.0135	mg/L	0.00015	-0.0135	mg/L	0.00015	1.14%
QC value within limits for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	347.5	-0.0020	mg/L	0.00001	-0.0020	mg/L	0.00001	0.47%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	23.1	-0.0008	mg/L	0.00044	-0.0008	mg/L	0.00044	51.84%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	-61.5	0.2685	mg/L	0.08680	0.2685	mg/L	0.08680	32.32%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	-2.8	-0.0023	mg/L	0.00002	-0.0023	mg/L	0.00002	0.74%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	19.5	0.0006	mg/L	0.00010	0.0006	mg/L	0.00010	15.11%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-0.3	-0.0022	mg/L	0.00045	-0.0022	mg/L	0.00045	20.55%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	3.1	0.0000	mg/L	0.00430	0.0000	mg/L	0.00430	>999.9%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-19.1	-0.0125	mg/L	0.00162	-0.0125	mg/L	0.00162	12.91%

QC value within limits for Sn 189.927 Recovery = Not calculated

Ti 337.279†	348.0	0.0005 mg/L	0.00002	0.0005 mg/L	0.00002	4.50%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 190.801†	7.7	0.0180 mg/L	0.00251	0.0180 mg/L	0.00251	13.95%

QC value within limits for Tl 190.801 Recovery = Not calculated

V 292.402†	101.9	-0.0007 mg/L	0.00005	-0.0007 mg/L	0.00005	7.71%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857†	1328.4	0.0126 mg/L	0.00072	0.0126 mg/L	0.00072	5.75%

QC value greater than the upper limit for Zn 213.857 Recovery = Not calculated
QC Failed. Continue with analysis.

Sequence No.: 39
Sample ID: 0606078-10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 6/7/2006 3:27:11 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606078-10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2750361.0	2750361.0					15:29:02
1	Ag 328.068†	311000.5	292849.5	0.9122	mg/L	0.9122	mg/L	15:29:02
1	Al 237.313†	424861.8	399525.9	44.41	mg/L	44.41	mg/L	15:29:02
1	As 188.979†	75.2	69.9	0.0669	mg/L	0.0669	mg/L	15:29:27
1	B 182.528†	-20.9	12.0	0.0081	mg/L	0.0081	mg/L	15:29:27
1	Ba 233.527†	136541.0	128552.5	0.7136	mg/L	0.7136	mg/L	15:29:07
1	Be 313.107†	25181.1	18717.3	0.0034	mg/L	0.0034	mg/L	15:29:07
1	Ca 315.886†	2505646.5	2350128.9	16.06	mg/L	16.06	mg/L	15:29:02
1	Cd 228.802†	2924.4	2361.4	0.0248	mg/L	0.0248	mg/L	15:29:27
1	Co 228.616†	3178.7	3458.8	0.0414	mg/L	0.0414	mg/L	15:29:27
1	Cr 267.716†	235036.3	219223.9	1.475	mg/L	1.475	mg/L	15:29:07
1	Cu 324.752†	10591147.1	9950475.3	70.30	mg/L	70.30	mg/L	15:28:52
1	Fe 238.204†	17143881.4	16107639.2	126.2	mg/L	126.2	mg/L	15:28:52
1	Fe 234.349†	5963544.0	5603529.1	140.2	mg/L	140.2	mg/L	15:29:02
1	Mg 279.077†	330301.2	310370.7	14.02	mg/L	14.02	mg/L	15:29:07
1	Mn 257.610†	2052656.3	1927619.8	1.911	mg/L	1.911	mg/L	15:29:02
1	Mo 202.031†	341.4	322.2	0.0326	mg/L	0.0326	mg/L	15:29:27
1	Na 330.237†	4047.1	1301.2	2.281	mg/L	2.281	mg/L	15:29:07
1	Ni 231.604†	41238.0	38287.2	0.6878	mg/L	0.6878	mg/L	15:29:07
1	Pb 220.353†	70666.9	66497.2	7.520	mg/L	7.520	mg/L	15:29:07
1	Sb 206.836†	190.5	93.9	0.0073	mg/L	0.0073	mg/L	15:29:27
1	Se 196.026†	-13.7	-7.0	-0.0137	mg/L	-0.0137	mg/L	15:29:27
1	Sn 189.927†	11304.9	10513.6	3.448	mg/L	3.448	mg/L	15:29:27
1	Ti 337.279†	1986560.7	1865501.6	2.427	mg/L	2.427	mg/L	15:29:02
1	Tl 190.801†	-42.7	-28.9	0.0131	mg/L	0.0131	mg/L	15:29:27
1	V 292.402†	97784.3	89760.3	0.3813	mg/L	0.3813	mg/L	15:29:07
1	Zn 213.857†	1553805.1	1458961.0	16.04	mg/L	16.04	mg/L	15:29:02
2	Y 360.073	2765148.9	2765148.9					15:29:49
2	Ag 328.068†	311932.5	292157.7	0.9100	mg/L	0.9100	mg/L	15:29:49
2	Al 237.313†	427055.4	399441.1	44.41	mg/L	44.41	mg/L	15:29:49
2	As 188.979†	71.4	66.0	0.0638	mg/L	0.0638	mg/L	15:30:15
2	B 182.528†	-23.0	10.1	0.0066	mg/L	0.0066	mg/L	15:30:15
2	Ba 233.527†	137574.6	128832.5	0.7151	mg/L	0.7151	mg/L	15:29:54
2	Be 313.107†	25139.3	18551.7	0.0034	mg/L	0.0034	mg/L	15:29:54
2	Ca 315.886†	2513859.0	2345213.1	16.02	mg/L	16.02	mg/L	15:29:49
2	Cd 228.802†	2915.5	2338.4	0.0245	mg/L	0.0245	mg/L	15:30:15
2	Co 228.616†	3163.8	3428.9	0.0410	mg/L	0.0410	mg/L	15:30:15
2	Cr 267.716†	236889.0	219774.3	1.478	mg/L	1.478	mg/L	15:29:54
2	Cu 324.752†	10635427.1	9938637.8	70.21	mg/L	70.21	mg/L	15:29:40
2	Fe 238.204†	17201691.3	16075518.3	126.0	mg/L	126.0	mg/L	15:29:40
2	Fe 234.349†	5983330.4	5592053.8	139.9	mg/L	139.9	mg/L	15:29:49
2	Mg 279.077†	332412.4	310684.0	14.03	mg/L	14.03	mg/L	15:29:54
2	Mn 257.610†	2061140.3	1925234.1	1.909	mg/L	1.909	mg/L	15:29:49
2	Mo 202.031†	328.3	308.2	0.0315	mg/L	0.0315	mg/L	15:30:15
2	Na 330.237†	4136.8	1364.7	2.397	mg/L	2.397	mg/L	15:29:54
2	Ni 231.604†	41516.9	38340.6	0.6888	mg/L	0.6888	mg/L	15:29:54
2	Pb 220.353†	71083.9	66531.9	7.524	mg/L	7.524	mg/L	15:29:54
2	Sb 206.836†	188.7	91.2	0.0065	mg/L	0.0065	mg/L	15:30:15
2	Se 196.026†	-15.6	-8.7	-0.0160	mg/L	-0.0160	mg/L	15:30:15

2	Sn 189.927†	11290.4	10443.3	3.425 mg/L	3.425 mg/L	15:30:15
2	Ti 337.279†	1997003.2	1865278.5	2.426 mg/L	2.426 mg/L	15:29:49
2	Tl 190.801†	-52.4	-37.7	0.0045 mg/L	0.0045 mg/L	15:30:15
2	V 292.402†	98700.4	90125.0	0.3829 mg/L	0.3829 mg/L	15:29:54
2	Zn 213.857†	1560688.8	1457586.5	16.02 mg/L	16.02 mg/L	15:29:49

Mean Data: 0606078-10

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2757754.9						10456.64	0.38%
Ag 328.068†	292503.6	0.9111	mg/L	0.00152	0.9111	mg/L	0.00152	0.17%
Al 237.313†	399483.5	44.41	mg/L	0.005	44.41	mg/L	0.005	0.01%
As 188.979†	67.9	0.0654	mg/L	0.00218	0.0654	mg/L	0.00218	3.34%
B 182.528†	11.1	0.0074	mg/L	0.00103	0.0074	mg/L	0.00103	13.99%
Ba 233.527†	128692.5	0.7143	mg/L	0.00110	0.7143	mg/L	0.00110	0.15%
Be 313.107†	18634.5	0.0034	mg/L	0.00002	0.0034	mg/L	0.00002	0.58%
Ca 315.886†	2347671.0	16.04	mg/L	0.024	16.04	mg/L	0.024	0.15%
Cd 228.802†	2349.9	0.0246	mg/L	0.00019	0.0246	mg/L	0.00019	0.77%
Co 228.616†	3443.8	0.0412	mg/L	0.00030	0.0412	mg/L	0.00030	0.74%
Cr 267.716†	219499.1	1.476	mg/L	0.0026	1.476	mg/L	0.0026	0.18%
Cu 324.752†	9944556.6	70.26	mg/L	0.059	70.26	mg/L	0.059	0.08%
Fe 238.204†	16091578.7	126.1	mg/L	0.18	126.1	mg/L	0.18	0.14%
Fe 234.349†	5597791.5	140.1	mg/L	0.20	140.1	mg/L	0.20	0.14%
Mg 279.077†	310527.4	14.03	mg/L	0.011	14.03	mg/L	0.011	0.08%
Mn 257.610†	1926427.0	1.910	mg/L	0.0017	1.910	mg/L	0.0017	0.09%
Mo 202.031†	315.2	0.0321	mg/L	0.00079	0.0321	mg/L	0.00079	2.45%
Na 330.237†	1332.9	2.339	mg/L	0.0819	2.339	mg/L	0.0819	3.50%
Ni 231.604†	38313.9	0.6883	mg/L	0.00068	0.6883	mg/L	0.00068	0.10%
Pb 220.353†	66514.6	7.522	mg/L	0.0028	7.522	mg/L	0.0028	0.04%
Sb 206.836†	92.6	0.0069	mg/L	0.00059	0.0069	mg/L	0.00059	8.54%
Se 196.026†	-7.9	-0.0149	mg/L	0.00158	-0.0149	mg/L	0.00158	10.64%
Sn 189.927†	10478.5	3.437	mg/L	0.0163	3.437	mg/L	0.0163	0.47%
Ti 337.279†	1865390.1	2.427	mg/L	0.0002	2.427	mg/L	0.0002	0.01%
Tl 190.801†	-33.3	0.0088	mg/L	0.00610	0.0088	mg/L	0.00610	69.13%
V 292.402†	89942.7	0.3821	mg/L	0.00109	0.3821	mg/L	0.00109	0.29%
Zn 213.857†	1458273.7	16.03	mg/L	0.011	16.03	mg/L	0.011	0.07%

Sequence No.: 40
Sample ID: 0606078-17
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 30
Date Collected: 6/7/2006 3:31:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606078-17

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2495072.6	2495072.6					15:33:40
1	Ag 328.068†	1117620.9	1158235.3	3.607	mg/L	3.607	mg/L	15:33:40
1	Al 237.313†	418989.9	434290.7	48.58	mg/L	48.58	mg/L	15:33:40
1	As 188.979†	127.2	131.0	0.1112	mg/L	0.1112	mg/L	15:34:01
1	B 182.528†	-104.6	-76.7	-0.0627	mg/L	-0.0627	mg/L	15:34:01
1	Ba 233.527†	686968.8	711805.0	3.959	mg/L	3.959	mg/L	15:33:40
1	Be 313.107†	23338.5	19229.7	0.0033	mg/L	0.0033	mg/L	15:33:40
1	Ca 315.886†	Saturated3	Saturated3					15:34:01
Saturated in preshot (code 3)								
1	Cd 228.802†	6183.6	6018.4	0.0703	mg/L	0.0703	mg/L	15:34:01
1	Co 228.616†	1845.0	2383.0	0.0281	mg/L	0.0281	mg/L	15:34:01
1	Cr 267.716†	91923.6	93586.6	0.6303	mg/L	0.6303	mg/L	15:33:40
1	Cu 324.752†	1703864.4	1763405.4	12.46	mg/L	12.46	mg/L	15:33:31
1	Fe 238.204†	11089718.5	11485063.9	90.01	mg/L	90.01	mg/L	15:33:31
1	Fe 234.349†	3798387.7	3934235.7	98.44	mg/L	98.44	mg/L	15:33:40
1	Mg 279.077†	1934957.2	2004206.0	92.22	mg/L	92.22	mg/L	15:33:40
1	Mn 257.610†	2263454.0	2343306.7	2.322	mg/L	2.322	mg/L	15:33:40
1	Mo 202.031†	-95.4	-97.3	-0.0021	mg/L	-0.0021	mg/L	15:34:01
1	Na 330.237†	14236.0	12243.9	22.20	mg/L	22.20	mg/L	15:33:40
1	Ni 231.604†	46983.2	48202.6	0.8666	mg/L	0.8666	mg/L	15:33:40
1	Pb 220.353†	149594.9	155043.7	17.54	mg/L	17.54	mg/L	15:33:40
1	Sb 206.836†	118.3	37.4	0.0012	mg/L	0.0012	mg/L	15:34:01

1	Se 196.026†	-15.4	-10.1	-0.0179 mg/L	-0.0179 mg/L	15:34:01
1	Sn 189.927†	3306.1	3315.5	1.085 mg/L	1.085 mg/L	15:34:01
1	Ti 337.279†	1145440.4	1185272.4	1.542 mg/L	1.542 mg/L	15:33:40
1	Tl 190.801†	-50.7	-41.3	-0.0062 mg/L	-0.0062 mg/L	15:34:01
1	V 292.402†	436365.1	449858.5	1.874 mg/L	1.874 mg/L	15:33:40
1	Zn 213.857†	1251714.3	1295444.9	14.26 mg/L	14.26 mg/L	15:33:40
2	Y 360.073	2499799.5	2499799.5			15:34:18
2	Ag 328.068†	1102520.6	1140435.3	3.552 mg/L	3.552 mg/L	15:34:18
2	Al 237.313†	419589.1	434089.6	48.56 mg/L	48.56 mg/L	15:34:18
2	As 188.979†	127.8	131.4	0.1114 mg/L	0.1114 mg/L	15:34:38
2	B 182.528†	-100.5	-72.2	-0.0591 mg/L	-0.0591 mg/L	15:34:38
2	Ba 233.527†	687668.8	711183.2	3.956 mg/L	3.956 mg/L	15:34:18
2	Be 313.107†	23332.9	19178.2	0.0033 mg/L	0.0033 mg/L	15:34:18
2	Ca 315.886†	Saturated3	Saturated3			15:34:38
Saturated in preshot (code 3)						
2	Cd 228.802†	6188.3	6011.1	0.0702 mg/L	0.0702 mg/L	15:34:38
2	Co 228.616†	1809.9	2343.0	0.0275 mg/L	0.0275 mg/L	15:34:38
2	Cr 267.716†	92096.9	93585.7	0.6303 mg/L	0.6303 mg/L	15:34:18
2	Cu 324.752†	1715997.2	1772611.5	12.52 mg/L	12.52 mg/L	15:34:08
2	Fe 238.204†	11136405.1	11511610.1	90.22 mg/L	90.22 mg/L	15:34:08
2	Fe 234.349†	3803872.2	3932466.4	98.39 mg/L	98.39 mg/L	15:34:18
2	Mg 279.077†	1937689.6	2003241.0	92.18 mg/L	92.18 mg/L	15:34:18
2	Mn 257.610†	2265914.6	2341417.4	2.320 mg/L	2.320 mg/L	15:34:18
2	Mo 202.031†	-100.4	-102.3	-0.0025 mg/L	-0.0025 mg/L	15:34:38
2	Na 330.237†	14131.9	12108.3	21.95 mg/L	21.95 mg/L	15:34:18
2	Ni 231.604†	47054.6	48184.5	0.8663 mg/L	0.8663 mg/L	15:34:18
2	Pb 220.353†	149734.8	154895.4	17.52 mg/L	17.52 mg/L	15:34:18
2	Sb 206.836†	118.8	37.7	0.0013 mg/L	0.0013 mg/L	15:34:38
2	Se 196.026†	-13.0	-7.6	-0.0145 mg/L	-0.0145 mg/L	15:34:38
2	Sn 189.927†	3297.0	3299.6	1.080 mg/L	1.080 mg/L	15:34:38
2	Ti 337.279†	1143975.1	1181514.1	1.537 mg/L	1.537 mg/L	15:34:18
2	Tl 190.801†	-57.9	-48.6	-0.0133 mg/L	-0.0133 mg/L	15:34:38
2	V 292.402†	436938.8	449597.0	1.873 mg/L	1.873 mg/L	15:34:18
2	Zn 213.857†	1253322.4	1294655.9	14.25 mg/L	14.25 mg/L	15:34:18

Mean Data: 0606078-17

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2497436.1						3342.36	0.13%
Ag 328.068†	1149335.3	3.580	mg/L	0.0392	3.580	mg/L	0.0392	1.09%
Al 237.313†	434190.2	48.57	mg/L	0.016	48.57	mg/L	0.016	0.03%
As 188.979†	131.2	0.1113	mg/L	0.00018	0.1113	mg/L	0.00018	0.16%
B 182.528†	-74.4	-0.0609	mg/L	0.00252	-0.0609	mg/L	0.00252	4.13%
Ba 233.527†	711494.1	3.958	mg/L	0.0024	3.958	mg/L	0.0024	0.06%
Be 313.107†	19204.0	0.0033	mg/L	0.00001	0.0033	mg/L	0.00001	0.18%
Ca 315.886†	Saturated3							
Cd 228.802†	6014.7	0.0703	mg/L	0.00006	0.0703	mg/L	0.00006	0.09%
Co 228.616†	2363.0	0.0278	mg/L	0.00040	0.0278	mg/L	0.00040	1.43%
Cr 267.716†	93586.1	0.6303	mg/L	0.00001	0.6303	mg/L	0.00001	0.00%
Cu 324.752†	1768008.4	12.49	mg/L	0.046	12.49	mg/L	0.046	0.37%
Fe 238.204†	11498337.0	90.12	mg/L	0.147	90.12	mg/L	0.147	0.16%
Fe 234.349†	3933351.1	98.41	mg/L	0.031	98.41	mg/L	0.031	0.03%
Mg 279.077†	2003723.5	92.20	mg/L	0.031	92.20	mg/L	0.031	0.03%
Mn 257.610†	2342362.0	2.321	mg/L	0.0013	2.321	mg/L	0.0013	0.06%
Mo 202.031†	-99.8	-0.0023	mg/L	0.00028	-0.0023	mg/L	0.00028	11.87%
Na 330.237†	12176.1	22.07	mg/L	0.175	22.07	mg/L	0.175	0.79%
Ni 231.604†	48193.6	0.8664	mg/L	0.00023	0.8664	mg/L	0.00023	0.03%
Pb 220.353†	154969.6	17.53	mg/L	0.012	17.53	mg/L	0.012	0.07%
Sb 206.836†	37.6	0.0012	mg/L	0.00007	0.0012	mg/L	0.00007	5.64%
Se 196.026†	-8.8	-0.0162	mg/L	0.00238	-0.0162	mg/L	0.00238	14.73%
Sn 189.927†	3307.5	1.082	mg/L	0.0037	1.082	mg/L	0.0037	0.34%
Ti 337.279†	1183393.2	1.539	mg/L	0.0035	1.539	mg/L	0.0035	0.22%
Tl 190.801†	-45.0	-0.0098	mg/L	0.00500	-0.0098	mg/L	0.00500	51.31%
V 292.402†	449727.7	1.874	mg/L	0.0008	1.874	mg/L	0.0008	0.04%
Zn 213.857†	1295050.4	14.26	mg/L	0.006	14.26	mg/L	0.006	0.04%

Sequence No.: 41
Sample ID: CCV
Analyst:

Autosampler Location: 3
Date Collected: 6/7/2006 3:36:17 PM
Data Type: Original

Initial Sample Wt: Initial Sample Vol:
Dilution: Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2639058.8	2639058.8					15:37:51
1	Ag 328.068†	140506.0	138213.5	0.4306	mg/L	0.4306	mg/L	15:37:56
1	Al 237.313†	22060.8	21910.6	2.466	mg/L	2.466	mg/L	15:37:56
1	As 188.979†	639.4	625.3	0.4992	mg/L	0.4992	mg/L	15:38:17
1	B 182.528†	606.7	625.8	0.4981	mg/L	0.4981	mg/L	15:38:17
1	Ba 233.527†	91196.0	89558.4	0.4964	mg/L	0.4964	mg/L	15:37:56
1	Be 313.107†	319881.1	308307.1	0.0504	mg/L	0.0504	mg/L	15:37:51
1	Ca 315.886†	791098.3	770414.8	5.245	mg/L	5.245	mg/L	15:37:51
1	Cd 228.802†	21023.7	20201.5	0.2455	mg/L	0.2455	mg/L	15:37:56
1	Co 228.616†	35232.1	34973.7	0.4981	mg/L	0.4981	mg/L	15:37:56
1	Cr 267.716†	77811.2	74571.9	0.4982	mg/L	0.4982	mg/L	15:37:56
1	Cu 324.752†	96213.8	92786.8	0.6542	mg/L	0.6542	mg/L	15:37:56
1	Fe 238.204†	330039.7	321692.5	2.514	mg/L	2.514	mg/L	15:37:56
1	Fe 234.349†	103143.2	100926.0	2.513	mg/L	2.513	mg/L	15:37:56
1	Mg 279.077†	110359.0	108076.8	4.970	mg/L	4.970	mg/L	15:37:56
1	Mn 257.610†	519475.0	507561.7	0.5004	mg/L	0.5004	mg/L	15:37:56
1	Mo 202.031†	6549.6	6415.3	0.4996	mg/L	0.4996	mg/L	15:38:17
1	Na 330.237†	15970.9	13138.2	24.36	mg/L	24.36	mg/L	15:37:56
1	Ni 231.604†	28900.1	27839.2	0.4992	mg/L	0.4992	mg/L	15:37:56
1	Pb 220.353†	4461.5	4464.6	0.5056	mg/L	0.5056	mg/L	15:38:17
1	Sb 206.836†	1847.0	1723.6	0.4957	mg/L	0.4957	mg/L	15:38:17
1	Se 196.026†	742.7	733.2	0.9881	mg/L	0.9881	mg/L	15:38:17
1	Sn 189.927†	1678.0	1534.3	0.4982	mg/L	0.4982	mg/L	15:38:17
1	Ti 337.279†	391044.2	381780.9	0.4966	mg/L	0.4966	mg/L	15:37:56
1	Tl 190.801†	564.8	564.3	0.5579	mg/L	0.5579	mg/L	15:38:17
1	V 292.402†	124441.7	119740.3	0.5005	mg/L	0.5005	mg/L	15:37:56
1	Zn 213.857†	49016.9	46938.2	0.5120	mg/L	0.5120	mg/L	15:37:56
2	Y 360.073	2632174.2	2632174.2					15:38:24
2	Ag 328.068†	135587.4	133744.1	0.4167	mg/L	0.4167	mg/L	15:38:29
2	Al 237.313†	22372.2	22272.9	2.507	mg/L	2.507	mg/L	15:38:29
2	As 188.979†	634.7	622.4	0.4968	mg/L	0.4968	mg/L	15:38:50
2	B 182.528†	613.6	634.1	0.5048	mg/L	0.5048	mg/L	15:38:50
2	Ba 233.527†	92310.8	90886.5	0.5038	mg/L	0.5038	mg/L	15:38:29
2	Be 313.107†	318516.7	307786.8	0.0503	mg/L	0.0503	mg/L	15:38:24
2	Ca 315.886†	783447.4	764929.1	5.207	mg/L	5.207	mg/L	15:38:24
2	Cd 228.802†	21281.5	20508.4	0.2493	mg/L	0.2493	mg/L	15:38:29
2	Co 228.616†	35535.6	35362.0	0.5036	mg/L	0.5036	mg/L	15:38:29
2	Cr 267.716†	78516.4	75463.5	0.5042	mg/L	0.5042	mg/L	15:38:29
2	Cu 324.752†	96414.0	93229.8	0.6574	mg/L	0.6574	mg/L	15:38:29
2	Fe 238.204†	332872.5	325319.2	2.542	mg/L	2.542	mg/L	15:38:29
2	Fe 234.349†	104015.9	102046.9	2.541	mg/L	2.541	mg/L	15:38:29
2	Mg 279.077†	111448.6	109429.2	5.032	mg/L	5.032	mg/L	15:38:29
2	Mn 257.610†	525221.1	514534.0	0.5073	mg/L	0.5073	mg/L	15:38:29
2	Mo 202.031†	6554.8	6437.2	0.5013	mg/L	0.5013	mg/L	15:38:50
2	Na 330.237†	16138.8	13344.0	24.74	mg/L	24.74	mg/L	15:38:29
2	Ni 231.604†	29157.3	28165.8	0.5051	mg/L	0.5051	mg/L	15:38:29
2	Pb 220.353†	4459.7	4474.1	0.5067	mg/L	0.5067	mg/L	15:38:50
2	Sb 206.836†	1844.4	1725.8	0.4963	mg/L	0.4963	mg/L	15:38:50
2	Se 196.026†	746.2	738.5	0.9952	mg/L	0.9952	mg/L	15:38:50
2	Sn 189.927†	1661.3	1522.2	0.4942	mg/L	0.4942	mg/L	15:38:50
2	Ti 337.279†	396444.2	388084.4	0.5048	mg/L	0.5048	mg/L	15:38:29
2	Tl 190.801†	569.9	570.8	0.5642	mg/L	0.5642	mg/L	15:38:50
2	V 292.402†	125860.9	121452.4	0.5077	mg/L	0.5077	mg/L	15:38:29
2	Zn 213.857†	49373.3	47413.7	0.5172	mg/L	0.5172	mg/L	15:38:29

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2635616.5						4868.17	0.18%
Ag 328.068†	135978.8	0.4237	mg/L	0.00984	0.4237	mg/L	0.00984	2.32%
QC value greater than the upper limit for Ag 328.068 Recovery = 169.48%								
Al 237.313†	22091.7	2.486	mg/L	0.0289	2.486	mg/L	0.0289	1.16%
QC value within limits for Al 237.313 Recovery = 99.46%								

As 188.979†	623.9	0.4980 mg/L	0.00163	0.4980 mg/L	0.00163	0.33%
QC value within limits for As 188.979 Recovery = 99.60%						
B 182.528†	629.9	0.5015 mg/L	0.00470	0.5015 mg/L	0.00470	0.94%
QC value within limits for B 182.528 Recovery = 100.29%						
Ba 233.527†	90222.5	0.5001 mg/L	0.00522	0.5001 mg/L	0.00522	1.04%
QC value within limits for Ba 233.527 Recovery = 100.01%						
Be 313.107†	308047.0	0.0503 mg/L	0.00006	0.0503 mg/L	0.00006	0.12%
QC value within limits for Be 313.107 Recovery = 100.66%						
Ca 315.886†	767671.9	5.226 mg/L	0.0265	5.226 mg/L	0.0265	0.51%
QC value within limits for Ca 315.886 Recovery = 104.52%						
Cd 228.802†	20354.9	0.2474 mg/L	0.00266	0.2474 mg/L	0.00266	1.08%
QC value within limits for Cd 228.802 Recovery = 98.96%						
Co 228.616†	35167.9	0.5008 mg/L	0.00392	0.5008 mg/L	0.00392	0.78%
QC value within limits for Co 228.616 Recovery = 100.17%						
Cr 267.716†	75017.7	0.5012 mg/L	0.00423	0.5012 mg/L	0.00423	0.84%
QC value within limits for Cr 267.716 Recovery = 100.24%						
Cu 324.752†	93008.3	0.6558 mg/L	0.00222	0.6558 mg/L	0.00222	0.34%
QC value greater than the upper limit for Cu 324.752 Recovery = 131.16%						
Fe 238.204†	323505.9	2.528 mg/L	0.0201	2.528 mg/L	0.0201	0.80%
QC value within limits for Fe 238.204 Recovery = 101.12%						
Fe 234.349†	101486.4	2.527 mg/L	0.0198	2.527 mg/L	0.0198	0.78%
QC value within limits for Fe 234.349 Recovery = 101.08%						
Mg 279.077†	108753.0	5.001 mg/L	0.0441	5.001 mg/L	0.0441	0.88%
QC value within limits for Mg 279.077 Recovery = 100.02%						
Mn 257.610†	511047.8	0.5038 mg/L	0.00488	0.5038 mg/L	0.00488	0.97%
QC value within limits for Mn 257.610 Recovery = 100.76%						
Mo 202.031†	6426.2	0.5005 mg/L	0.00122	0.5005 mg/L	0.00122	0.24%
QC value within limits for Mo 202.031 Recovery = 100.09%						
Na 330.237†	13241.1	24.55 mg/L	0.266	24.55 mg/L	0.266	1.08%
QC value within limits for Na 330.237 Recovery = 98.20%						
Ni 231.604†	28002.5	0.5021 mg/L	0.00416	0.5021 mg/L	0.00416	0.83%
QC value within limits for Ni 231.604 Recovery = 100.43%						
Pb 220.353†	4469.4	0.5061 mg/L	0.00078	0.5061 mg/L	0.00078	0.15%
QC value within limits for Pb 220.353 Recovery = 101.22%						
Sb 206.836†	1724.7	0.4960 mg/L	0.00039	0.4960 mg/L	0.00039	0.08%
QC value within limits for Sb 206.836 Recovery = 99.20%						
Se 196.026†	735.9	0.9916 mg/L	0.00504	0.9916 mg/L	0.00504	0.51%
QC value within limits for Se 196.026 Recovery = 99.16%						
Sn 189.927†	1528.2	0.4962 mg/L	0.00280	0.4962 mg/L	0.00280	0.56%
QC value within limits for Sn 189.927 Recovery = 99.24%						
Ti 337.279†	384932.7	0.5007 mg/L	0.00580	0.5007 mg/L	0.00580	1.16%
QC value within limits for Ti 337.279 Recovery = 100.15%						
Tl 190.801†	567.5	0.5611 mg/L	0.00449	0.5611 mg/L	0.00449	0.80%
QC value greater than the upper limit for Tl 190.801 Recovery = 112.21%						
V 292.402†	120596.3	0.5041 mg/L	0.00506	0.5041 mg/L	0.00506	1.00%
QC value within limits for V 292.402 Recovery = 100.81%						
Zn 213.857†	47176.0	0.5146 mg/L	0.00368	0.5146 mg/L	0.00368	0.72%
QC value within limits for Zn 213.857 Recovery = 102.92%						

QC Failed. Continue with analysis.

Sequence No.: 42
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/7/2006 3:40:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2583621.5	2583621.5					15:41:58
1	Ag 328.068†	37144.2	37774.5	0.1178	mg/L	0.1178	mg/L	15:42:04
1	Al 237.313†	-281.2	25.8	-0.0002	mg/L	-0.0002	mg/L	15:42:24
1	As 188.979†	3.2	2.4	-0.0006	mg/L	-0.0006	mg/L	15:42:24
1	B 182.528†	-19.8	11.9	0.0080	mg/L	0.0080	mg/L	15:42:24
1	Ba 233.527†	-225.1	27.5	-0.0017	mg/L	-0.0017	mg/L	15:42:24
1	Be 313.107†	4971.9	29.4	-0.0001	mg/L	-0.0001	mg/L	15:41:58
1	Ca 315.886†	11303.9	7020.3	0.0188	mg/L	0.0188	mg/L	15:42:04
1	Cd 228.802†	403.0	16.6	-0.0001	mg/L	-0.0001	mg/L	15:42:24
1	Co 228.616†	-458.4	13.4	-0.0022	mg/L	-0.0022	mg/L	15:42:24

1	Cr 267.716†	1755.6	129.5	-0.0011 mg/L	-0.0011 mg/L	15:42:04
1	Cu 324.752†	18537.9	17110.3	0.1194 mg/L	0.1194 mg/L	15:42:04
1	Fe 238.204†	3379.0	1873.4	0.0062 mg/L	0.0062 mg/L	15:42:24
1	Fe 234.349†	685.7	606.4	0.0072 mg/L	0.0072 mg/L	15:42:24
1	Mg 279.077†	-45.2	-40.1	-0.0131 mg/L	-0.0131 mg/L	15:42:04
1	Mn 257.610†	1569.4	423.5	-0.0020 mg/L	-0.0020 mg/L	15:42:04
1	Mo 202.031†	12.6	14.0	-0.0016 mg/L	-0.0016 mg/L	15:42:24
1	Na 330.237†	2469.2	-31.8	0.3228 mg/L	0.3228 mg/L	15:42:04
1	Ni 231.604†	440.3	-21.5	-0.0027 mg/L	-0.0027 mg/L	15:42:24
1	Pb 220.353†	-87.6	7.9	-0.0007 mg/L	-0.0007 mg/L	15:42:24
1	Sb 206.836†	82.6	-2.5	-0.0028 mg/L	-0.0028 mg/L	15:42:24
1	Se 196.026†	-2.8	3.1	-0.0001 mg/L	-0.0001 mg/L	15:42:24
1	Sn 189.927†	70.3	-38.6	-0.0189 mg/L	-0.0189 mg/L	15:42:24
1	Ti 337.279†	1403.1	245.2	0.0003 mg/L	0.0003 mg/L	15:42:04
1	Tl 190.801†	-9.9	1.3	0.0118 mg/L	0.0118 mg/L	15:42:24
1	V 292.402†	2188.0	66.4	-0.0008 mg/L	-0.0008 mg/L	15:42:04
1	Zn 213.857†	2355.3	1293.2	0.0122 mg/L	0.0122 mg/L	15:42:24
2	Y 360.073	2582879.7	2582879.7			15:42:30
2	Ag 328.068†	34277.9	34917.2	0.1089 mg/L	0.1089 mg/L	15:42:35
2	Al 237.313†	-267.0	39.9	0.0015 mg/L	0.0015 mg/L	15:42:55
2	As 188.979†	2.3	1.5	-0.0013 mg/L	-0.0013 mg/L	15:42:55
2	B 182.528†	-22.1	9.6	0.0062 mg/L	0.0062 mg/L	15:42:55
2	Ba 233.527†	-204.8	47.7	-0.0016 mg/L	-0.0016 mg/L	15:42:55
2	Be 313.107†	4987.7	46.6	-0.0001 mg/L	-0.0001 mg/L	15:42:30
2	Ca 315.886†	10565.3	6284.5	0.0138 mg/L	0.0138 mg/L	15:42:35
2	Cd 228.802†	392.9	6.6	-0.0002 mg/L	-0.0002 mg/L	15:42:55
2	Co 228.616†	-459.9	11.8	-0.0022 mg/L	-0.0022 mg/L	15:42:55
2	Cr 267.716†	1714.1	88.5	-0.0013 mg/L	-0.0013 mg/L	15:42:35
2	Cu 324.752†	18182.9	16760.5	0.1169 mg/L	0.1169 mg/L	15:42:35
2	Fe 238.204†	3275.9	1771.2	0.0054 mg/L	0.0054 mg/L	15:42:55
2	Fe 234.349†	668.3	589.2	0.0068 mg/L	0.0068 mg/L	15:42:55
2	Mg 279.077†	6.5	11.7	-0.0107 mg/L	-0.0107 mg/L	15:42:35
2	Mn 257.610†	1527.7	382.2	-0.0020 mg/L	-0.0020 mg/L	15:42:35
2	Mo 202.031†	7.9	9.4	-0.0019 mg/L	-0.0019 mg/L	15:42:55
2	Na 330.237†	2444.0	-56.3	0.2781 mg/L	0.2781 mg/L	15:42:35
2	Ni 231.604†	448.8	-12.7	-0.0025 mg/L	-0.0025 mg/L	15:42:55
2	Pb 220.353†	-82.7	12.7	-0.0001 mg/L	-0.0001 mg/L	15:42:55
2	Sb 206.836†	93.0	7.9	0.0002 mg/L	0.0002 mg/L	15:42:55
2	Se 196.026†	-4.3	1.6	-0.0021 mg/L	-0.0021 mg/L	15:42:55
2	Sn 189.927†	64.0	-44.9	-0.0210 mg/L	-0.0210 mg/L	15:42:55
2	Ti 337.279†	1343.6	186.1	0.0002 mg/L	0.0002 mg/L	15:42:35
2	Tl 190.801†	-18.6	-7.4	0.0033 mg/L	0.0033 mg/L	15:42:55
2	V 292.402†	2235.3	114.3	-0.0006 mg/L	-0.0006 mg/L	15:42:35
2	Zn 213.857†	2325.5	1264.1	0.0119 mg/L	0.0119 mg/L	15:42:55

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2583250.6						524.58	0.02%
Ag 328.068†	36345.9	0.1133	mg/L	0.00629	0.1133	mg/L	0.00629	5.55%
QC value greater than the upper limit for Ag 328.068 Recovery = Not calculated								
Al 237.313†	32.8	0.0006	mg/L	0.00114	0.0006	mg/L	0.00114	175.17%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	2.0	-0.0010	mg/L	0.00049	-0.0010	mg/L	0.00049	49.45%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	10.7	0.0071	mg/L	0.00130	0.0071	mg/L	0.00130	18.25%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	37.6	-0.0016	mg/L	0.00008	-0.0016	mg/L	0.00008	4.88%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	38.0	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	1.90%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	6652.4	0.0163	mg/L	0.00356	0.0163	mg/L	0.00356	21.81%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	11.6	-0.0002	mg/L	0.00009	-0.0002	mg/L	0.00009	46.53%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	12.6	-0.0022	mg/L	0.00002	-0.0022	mg/L	0.00002	0.76%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	109.0	-0.0012	mg/L	0.00019	-0.0012	mg/L	0.00019	16.33%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	16935.4	0.1182	mg/L	0.00175	0.1182	mg/L	0.00175	1.48%

	QC value greater than the upper limit for Cu 324.752 Recovery = Not calculated						
Fe 238.204†	1822.3	0.0058 mg/L	0.00057	0.0058 mg/L	0.00057	9.74%	
	QC value within limits for Fe 238.204 Recovery = Not calculated						
Fe 234.349†	597.8	0.0070 mg/L	0.00031	0.0070 mg/L	0.00031	4.38%	
	QC value within limits for Fe 234.349 Recovery = Not calculated						
Mg 279.077†	-14.2	-0.0119 mg/L	0.00169	-0.0119 mg/L	0.00169	14.20%	
	QC value within limits for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	402.8	-0.0020 mg/L	0.00003	-0.0020 mg/L	0.00003	1.46%	
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	11.7	-0.0017 mg/L	0.00026	-0.0017 mg/L	0.00026	14.77%	
	QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 330.237†	-44.0	0.3004 mg/L	0.03162	0.3004 mg/L	0.03162	10.53%	
	QC value within limits for Na 330.237 Recovery = Not calculated						
Ni 231.604†	-17.1	-0.0026 mg/L	0.00011	-0.0026 mg/L	0.00011	4.28%	
	QC value within limits for Ni 231.604 Recovery = Not calculated						
Pb 220.353†	10.3	-0.0004 mg/L	0.00039	-0.0004 mg/L	0.00039	96.59%	
	QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	2.7	-0.0013 mg/L	0.00216	-0.0013 mg/L	0.00216	167.10%	
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	2.3	-0.0011 mg/L	0.00143	-0.0011 mg/L	0.00143	133.42%	
	QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-41.7	-0.0199 mg/L	0.00147	-0.0199 mg/L	0.00147	7.38%	
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	215.7	0.0003 mg/L	0.00005	0.0003 mg/L	0.00005	18.90%	
	QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	-3.0	0.0075 mg/L	0.00602	0.0075 mg/L	0.00602	79.76%	
	QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	90.4	-0.0007 mg/L	0.00014	-0.0007 mg/L	0.00014	19.71%	
	QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	1278.6	0.0121 mg/L	0.00023	0.0121 mg/L	0.00023	1.88%	
	QC value greater than the upper limit for Zn 213.857 Recovery = Not calculated						

QC Failed. Continue with analysis.

Sequence No.: 43
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 106
Date Collected: 6/7/2006 3:44:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2515720.7	2515720.7					15:46:20
1	Ag 328.068†	13587.5	14577.9	0.0455	mg/L	0.0455	mg/L	15:46:26
1	Al 237.313†	2160712.4	2219972.9	251.5	mg/L	251.5	mg/L	15:46:20
1	As 188.979†	7.7	7.2	0.0033	mg/L	0.0033	mg/L	15:46:46
1	B 182.528†	12.7	44.7	0.0343	mg/L	0.0343	mg/L	15:46:46
1	Ba 233.527†	-198.4	48.8	-0.0016	mg/L	-0.0016	mg/L	15:46:46
1	Be 313.107†	2072.0	-2815.5	-0.0003	mg/L	-0.0003	mg/L	15:46:26
1	Ca 315.886†	34454210.3	35389981.3	242.2	mg/L	242.2	mg/L	15:46:13
1	Cd 228.802†	523.6	151.3	-0.0004	mg/L	-0.0004	mg/L	15:46:46
1	Co 228.616†	-459.0	0.4	-0.0024	mg/L	-0.0024	mg/L	15:46:46
1	Cr 267.716†	1284.6	-306.9	0.0006	mg/L	0.0006	mg/L	15:46:46
1	Cu 324.752†	14007.8	12957.2	0.0901	mg/L	0.0901	mg/L	15:46:26
1	Fe 238.204†	10659439.8	10948768.2	85.81	mg/L	85.81	mg/L	15:46:13
1	Fe 234.349†	3568268.4	3665546.5	91.72	mg/L	91.72	mg/L	15:46:20
1	Mg 279.077†	5091477.4	5230399.8	241.0	mg/L	241.0	mg/L	15:46:20
1	Mn 257.610†	5194.8	4190.2	0.0049	mg/L	0.0049	mg/L	15:46:26
1	Mo 202.031†	-209.7	-214.0	-0.0130	mg/L	-0.0130	mg/L	15:46:46
1	Na 330.237†	2514.9	81.9	0.9055	mg/L	0.9055	mg/L	15:46:26
1	Ni 231.604†	570.8	124.5	0.0000	mg/L	0.0000	mg/L	15:46:46
1	Pb 220.353†	-370.2	-284.8	-0.0168	mg/L	-0.0168	mg/L	15:46:46
1	Sb 206.836†	67.2	-16.1	-0.0067	mg/L	-0.0067	mg/L	15:46:46
1	Se 196.026†	-17.9	-12.6	-0.0212	mg/L	-0.0212	mg/L	15:46:46
1	Sn 189.927†	142.5	37.5	0.0061	mg/L	0.0061	mg/L	15:46:46
1	Ti 337.279†	5424.4	4414.1	0.0057	mg/L	0.0057	mg/L	15:46:26
1	Tl 190.801†	-7.0	4.1	0.0145	mg/L	0.0145	mg/L	15:46:46
1	V 292.402†	3262.9	1229.7	0.0040	mg/L	0.0040	mg/L	15:46:46
1	Zn 213.857†	4194.1	3245.8	0.0338	mg/L	0.0338	mg/L	15:46:46

2	Y 360.073	2501158.9	2501158.9			15:47:06
2	Ag 328.068†	13032.4	14085.6	0.0440 mg/L	0.0440 mg/L	15:47:11
2	Al 237.313†	2149139.1	2220937.5	251.6 mg/L	251.6 mg/L	15:47:06
2	As 188.979†	10.2	9.7	0.0053 mg/L	0.0053 mg/L	15:47:31
2	B 182.528†	5.7	37.6	0.0285 mg/L	0.0285 mg/L	15:47:31
2	Ba 233.527†	-178.6	68.1	-0.0015 mg/L	-0.0015 mg/L	15:47:31
2	Be 313.107†	1991.6	-2886.1	-0.0003 mg/L	-0.0003 mg/L	15:47:11
2	Ca 315.886†	34621234.8	35768627.1	244.8 mg/L	244.8 mg/L	15:46:58
2	Cd 228.802†	521.9	152.7	-0.0004 mg/L	-0.0004 mg/L	15:47:31
2	Co 228.616†	-455.1	1.7	-0.0023 mg/L	-0.0023 mg/L	15:47:31
2	Cr 267.716†	1339.2	-242.9	0.0011 mg/L	0.0011 mg/L	15:47:31
2	Cu 324.752†	13591.7	12611.0	0.0876 mg/L	0.0876 mg/L	15:47:11
2	Fe 238.204†	10706976.1	11061638.3	86.69 mg/L	86.69 mg/L	15:46:58
2	Fe 234.349†	3560908.1	3679282.6	92.06 mg/L	92.06 mg/L	15:47:06
2	Mg 279.077†	5082871.1	5251958.5	242.0 mg/L	242.0 mg/L	15:47:06
2	Mn 257.610†	5151.8	4176.8	0.0049 mg/L	0.0049 mg/L	15:47:11
2	Mo 202.031†	-222.4	-228.3	-0.0141 mg/L	-0.0141 mg/L	15:47:31
2	Na 330.237†	2504.6	86.3	0.9148 mg/L	0.9148 mg/L	15:47:11
2	Ni 231.604†	551.8	108.3	-0.0003 mg/L	-0.0003 mg/L	15:47:31
2	Pb 220.353†	-387.2	-304.5	-0.0190 mg/L	-0.0190 mg/L	15:47:31
2	Sb 206.836†	54.6	-28.7	-0.0104 mg/L	-0.0104 mg/L	15:47:31
2	Se 196.026†	-21.7	-16.5	-0.0266 mg/L	-0.0266 mg/L	15:47:31
2	Sn 189.927†	123.1	18.2	-0.0002 mg/L	-0.0002 mg/L	15:47:31
2	Ti 337.279†	5336.2	4355.4	0.0057 mg/L	0.0057 mg/L	15:47:11
2	Tl 190.801†	-16.7	-6.1	0.0046 mg/L	0.0046 mg/L	15:47:31
2	V 292.402†	3247.0	1232.8	0.0040 mg/L	0.0040 mg/L	15:47:31
2	Zn 213.857†	4176.0	3252.2	0.0338 mg/L	0.0338 mg/L	15:47:31

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2508439.8						10296.70	0.41%
Ag 328.068†	14331.8	0.0448	mg/L	0.00108	0.0448	mg/L	0.00108	2.42%
QC value greater than the upper limit for Ag 328.068 Recovery = Not calculated								
Al 237.313†	2220455.2	251.5	mg/L	0.08	251.5	mg/L	0.08	0.03%
QC value within limits for Al 237.313 Recovery = 100.60%								
As 188.979†	8.5	0.0043	mg/L	0.00144	0.0043	mg/L	0.00144	33.63%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	41.2	0.0314	mg/L	0.00403	0.0314	mg/L	0.00403	12.85%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	58.5	-0.0015	mg/L	0.00008	-0.0015	mg/L	0.00008	5.01%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-2850.8	-0.0003	mg/L	0.00001	-0.0003	mg/L	0.00001	2.46%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	35579304.2	243.5	mg/L	1.83	243.5	mg/L	1.83	0.75%
QC value within limits for Ca 315.886 Recovery = 97.40%								
Cd 228.802†	152.0	-0.0004	mg/L	0.00000	-0.0004	mg/L	0.00000	0.64%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	1.0	-0.0023	mg/L	0.00001	-0.0023	mg/L	0.00001	0.57%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-274.9	0.0008	mg/L	0.00032	0.0008	mg/L	0.00032	38.06%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	12784.1	0.0888	mg/L	0.00173	0.0888	mg/L	0.00173	1.95%
QC value greater than the upper limit for Cu 324.752 Recovery = Not calculated								
Fe 238.204†	11005203.2	86.25	mg/L	0.626	86.25	mg/L	0.626	0.73%
QC value within limits for Fe 238.204 Recovery = 86.25%								
Fe 234.349†	3672414.5	91.89	mg/L	0.243	91.89	mg/L	0.243	0.26%
QC value within limits for Fe 234.349 Recovery = 91.89%								
Mg 279.077†	5241179.2	241.5	mg/L	0.70	241.5	mg/L	0.70	0.29%
QC value within limits for Mg 279.077 Recovery = 96.60%								
Mn 257.610†	4183.5	0.0049	mg/L	0.00000	0.0049	mg/L	0.00000	0.02%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-221.2	-0.0135	mg/L	0.00077	-0.0135	mg/L	0.00077	5.72%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	84.1	0.9101	mg/L	0.00661	0.9101	mg/L	0.00661	0.73%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	116.4	-0.0002	mg/L	0.00021	-0.0002	mg/L	0.00021	107.26%
QC value within limits for Ni 231.604 Recovery = Not calculated								
Pb 220.353†	-294.7	-0.0179	mg/L	0.00158	-0.0179	mg/L	0.00158	8.85%
QC value less than the lower limit for Pb 220.353 Recovery = Not calculated								

Sb 206.836†	-22.4	-0.0086 mg/L	0.00260	-0.0086 mg/L	0.00260	30.31%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-14.5	-0.0239 mg/L	0.00379	-0.0239 mg/L	0.00379	15.85%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	27.9	0.0029 mg/L	0.00446	0.0029 mg/L	0.00446	153.56%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Ti 337.279†	4384.8	0.0057 mg/L	0.00005	0.0057 mg/L	0.00005	0.94%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	-1.0	0.0096 mg/L	0.00696	0.0096 mg/L	0.00696	72.88%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	1231.2	0.0040 mg/L	0.00001	0.0040 mg/L	0.00001	0.28%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	3249.0	0.0338 mg/L	0.00005	0.0338 mg/L	0.00005	0.15%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 44
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 105
Date Collected: 6/7/2006 3:49:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2506241.1	2506241.1					15:50:58
1	Ag 328.068†	168599.2	174474.1	0.5435	mg/L	0.5435	mg/L	15:51:04
1	Al 237.313†	2162264.4	2229969.0	252.6	mg/L	252.6	mg/L	15:50:58
1	As 188.979†	11.8	11.4	0.0064	mg/L	0.0064	mg/L	15:51:24
1	B 182.528†	2.2	34.0	0.0257	mg/L	0.0257	mg/L	15:51:24
1	Ba 233.527†	42525.9	44104.0	0.2435	mg/L	0.2435	mg/L	15:51:04
1	Be 313.107†	1522954.2	1565480.5	0.2564	mg/L	0.2564	mg/L	15:50:58
1	Ca 315.886†	34607964.5	35682403.2	244.2	mg/L	244.2	mg/L	15:50:50
1	Cd 228.802†	38509.5	39323.3	0.4801	mg/L	0.4801	mg/L	15:51:04
1	Co 228.616†	14996.9	15936.2	0.2260	mg/L	0.2260	mg/L	15:51:24
1	Cr 267.716†	36827.8	36349.2	0.2464	mg/L	0.2464	mg/L	15:51:04
1	Cu 324.752†	45800.4	45795.1	0.3221	mg/L	0.3221	mg/L	15:51:04
1	Fe 238.204†	10703319.7	11035434.1	86.49	mg/L	86.49	mg/L	15:50:50
1	Fe 234.349†	3579161.3	3690643.8	92.34	mg/L	92.34	mg/L	15:50:58
1	Mg 279.077†	5109363.2	5268626.5	242.8	mg/L	242.8	mg/L	15:50:58
1	Mn 257.610†	243627.6	250075.0	0.2484	mg/L	0.2484	mg/L	15:51:04
1	Mo 202.031†	-216.5	-221.8	-0.0134	mg/L	-0.0134	mg/L	15:51:24
1	Na 330.237†	2501.0	77.3	0.8678	mg/L	0.8678	mg/L	15:51:04
1	Ni 231.604†	25582.9	25918.5	0.4648	mg/L	0.4648	mg/L	15:51:24
1	Pb 220.353†	3748.6	3961.0	0.4637	mg/L	0.4637	mg/L	15:51:24
1	Sb 206.836†	73.0	-9.8	-0.0079	mg/L	-0.0079	mg/L	15:51:24
1	Se 196.026†	-22.5	-17.3	-0.0277	mg/L	-0.0277	mg/L	15:51:24
1	Sn 189.927†	127.4	22.4	0.0011	mg/L	0.0011	mg/L	15:51:24
1	Ti 337.279†	5372.8	4382.0	0.0057	mg/L	0.0057	mg/L	15:51:04
1	Tl 190.801†	-14.1	-3.3	0.0067	mg/L	0.0067	mg/L	15:51:24
1	V 292.402†	60587.0	60353.3	0.2519	mg/L	0.2519	mg/L	15:51:04
1	Zn 213.857†	45765.7	46129.5	0.5031	mg/L	0.5031	mg/L	15:51:04
2	Y 360.073	2505503.2	2505503.2					15:51:45
2	Ag 328.068†	168713.2	174642.9	0.5441	mg/L	0.5441	mg/L	15:51:50
2	Al 237.313†	2158304.5	2226541.1	252.2	mg/L	252.2	mg/L	15:51:45
2	As 188.979†	15.4	15.1	0.0094	mg/L	0.0094	mg/L	15:52:11
2	B 182.528†	-1.3	30.3	0.0228	mg/L	0.0228	mg/L	15:52:11
2	Ba 233.527†	42497.2	44087.4	0.2434	mg/L	0.2434	mg/L	15:51:50
2	Be 313.107†	1521751.8	1564702.7	0.2563	mg/L	0.2563	mg/L	15:51:45
2	Ca 315.886†	34553985.3	35637235.3	243.9	mg/L	243.9	mg/L	15:51:37
2	Cd 228.802†	38452.1	39275.8	0.4796	mg/L	0.4796	mg/L	15:51:50
2	Co 228.616†	14987.8	15931.4	0.2259	mg/L	0.2259	mg/L	15:52:11
2	Cr 267.716†	36941.9	36478.0	0.2473	mg/L	0.2473	mg/L	15:51:50
2	Cu 324.752†	45830.2	45839.8	0.3224	mg/L	0.3224	mg/L	15:51:50
2	Fe 238.204†	10688364.0	11023258.2	86.39	mg/L	86.39	mg/L	15:51:37
2	Fe 234.349†	3577632.1	3690153.5	92.33	mg/L	92.33	mg/L	15:51:45
2	Mg 279.077†	5106773.1	5267506.6	242.7	mg/L	242.7	mg/L	15:51:45
2	Mn 257.610†	243465.7	249982.0	0.2483	mg/L	0.2483	mg/L	15:51:50
2	Mo 202.031†	-214.4	-219.7	-0.0132	mg/L	-0.0132	mg/L	15:52:11

2	Na 330.237†	2508.5	85.8	0.8831 mg/L	0.8831 mg/L	15:51:50
2	Ni 231.604†	25517.1	25858.4	0.4637 mg/L	0.4637 mg/L	15:52:11
2	Pb 220.353†	3741.8	3955.1	0.4630 mg/L	0.4630 mg/L	15:52:11
2	Sb 206.836†	73.0	-9.8	-0.0079 mg/L	-0.0079 mg/L	15:52:11
2	Se 196.026†	-22.3	-17.1	-0.0274 mg/L	-0.0274 mg/L	15:52:11
2	Sn 189.927†	148.8	44.5	0.0084 mg/L	0.0084 mg/L	15:52:11
2	Ti 337.279†	5446.9	4460.1	0.0058 mg/L	0.0058 mg/L	15:51:50
2	Tl 190.801†	-9.0	1.9	0.0117 mg/L	0.0117 mg/L	15:52:11
2	V 292.402†	60519.1	60301.6	0.2517 mg/L	0.2517 mg/L	15:51:50
2	Zn 213.857†	45937.8	46320.9	0.5052 mg/L	0.5052 mg/L	15:51:50

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 360.073	2505872.1						521.77	0.02%
Ag 328.068†	174558.5	0.5438	mg/L	0.00037	0.5438	mg/L	0.00037	0.07%
QC value within limits for Ag 328.068 Recovery = 108.76%								
Al 237.313†	2228255.0	252.4	mg/L	0.28	252.4	mg/L	0.28	0.11%
QC value within limits for Al 237.313 Recovery = 100.96%								
As 188.979†	13.3	0.0079	mg/L	0.00211	0.0079	mg/L	0.00211	26.61%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	32.1	0.0242	mg/L	0.00204	0.0242	mg/L	0.00204	8.43%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	44095.7	0.2435	mg/L	0.00007	0.2435	mg/L	0.00007	0.03%
QC value within limits for Ba 233.527 Recovery = 97.39%								
Be 313.107†	1565091.6	0.2563	mg/L	0.00009	0.2563	mg/L	0.00009	0.04%
QC value within limits for Be 313.107 Recovery = 102.53%								
Ca 315.886†	35659819.3	244.1	mg/L	0.22	244.1	mg/L	0.22	0.09%
QC value within limits for Ca 315.886 Recovery = 97.62%								
Cd 228.802†	39299.6	0.4798	mg/L	0.00042	0.4798	mg/L	0.00042	0.09%
QC value within limits for Cd 228.802 Recovery = 95.97%								
Co 228.616†	15933.8	0.2260	mg/L	0.00005	0.2260	mg/L	0.00005	0.02%
QC value within limits for Co 228.616 Recovery = 90.39%								
Cr 267.716†	36413.6	0.2468	mg/L	0.00061	0.2468	mg/L	0.00061	0.25%
QC value within limits for Cr 267.716 Recovery = 98.74%								
Cu 324.752†	45817.5	0.3222	mg/L	0.00022	0.3222	mg/L	0.00022	0.07%
QC value greater than the upper limit for Cu 324.752 Recovery = 128.89%								
Fe 238.204†	11029346.2	86.44	mg/L	0.067	86.44	mg/L	0.067	0.08%
QC value within limits for Fe 238.204 Recovery = 86.44%								
Fe 234.349†	3690398.6	92.34	mg/L	0.009	92.34	mg/L	0.009	0.01%
QC value within limits for Fe 234.349 Recovery = 92.34%								
Mg 279.077†	5268066.5	242.7	mg/L	0.04	242.7	mg/L	0.04	0.02%
QC value within limits for Mg 279.077 Recovery = 97.10%								
Mn 257.610†	250028.5	0.2484	mg/L	0.00007	0.2484	mg/L	0.00007	0.03%
QC value within limits for Mn 257.610 Recovery = 99.35%								
Mo 202.031†	-220.8	-0.0133	mg/L	0.00012	-0.0133	mg/L	0.00012	0.88%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 330.237†	81.6	0.8755	mg/L	0.01081	0.8755	mg/L	0.01081	1.24%
QC value within limits for Na 330.237 Recovery = Not calculated								
Ni 231.604†	25888.4	0.4642	mg/L	0.00077	0.4642	mg/L	0.00077	0.16%
QC value within limits for Ni 231.604 Recovery = 92.84%								
Pb 220.353†	3958.0	0.4633	mg/L	0.00049	0.4633	mg/L	0.00049	0.11%
QC value within limits for Pb 220.353 Recovery = 92.66%								
Sb 206.836†	-9.8	-0.0079	mg/L	0.00001	-0.0079	mg/L	0.00001	0.08%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-17.2	-0.0275	mg/L	0.00019	-0.0275	mg/L	0.00019	0.71%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	33.4	0.0047	mg/L	0.00513	0.0047	mg/L	0.00513	108.34%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Ti 337.279†	4421.0	0.0058	mg/L	0.00007	0.0058	mg/L	0.00007	1.25%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801†	-0.7	0.0092	mg/L	0.00357	0.0092	mg/L	0.00357	38.87%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	60327.5	0.2518	mg/L	0.00015	0.2518	mg/L	0.00015	0.06%
QC value within limits for V 292.402 Recovery = 100.71%								
Zn 213.857†	46225.2	0.5041	mg/L	0.00150	0.5041	mg/L	0.00150	0.30%
QC value within limits for Zn 213.857 Recovery = 100.83%								

QC Failed. Continue with analysis.

Sequence No.: 45
Sample ID: WASH
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 6/7/2006 3:53:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: WASH

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	Y 360.073	2590589.6	2590589.6					15:55:17
1	Ag 328.068†	10635.1	11229.3	0.0351	mg/L	0.0351	mg/L	15:55:23
1	Al 237.313†	-87.8	219.5	0.0216	mg/L	0.0216	mg/L	15:55:43
1	As 188.979†	1.5	0.8	-0.0019	mg/L	-0.0019	mg/L	15:55:43
1	B 182.528†	-28.1	3.6	0.0015	mg/L	0.0015	mg/L	15:55:43
1	Ba 233.527†	-205.2	47.9	-0.0016	mg/L	-0.0016	mg/L	15:55:43
1	Be 313.107†	5185.5	229.0	-0.0001	mg/L	-0.0001	mg/L	15:55:17
1	Ca 315.886†	17152.0	12823.9	0.0586	mg/L	0.0586	mg/L	15:55:23
1	Cd 228.802†	419.6	32.0	0.0001	mg/L	0.0001	mg/L	15:55:43
1	Co 228.616†	-441.4	31.6	-0.0019	mg/L	-0.0019	mg/L	15:55:43
1	Cr 267.716†	1697.5	66.9	-0.0015	mg/L	-0.0015	mg/L	15:55:23
1	Cu 324.752†	11154.7	9695.0	0.0670	mg/L	0.0670	mg/L	15:55:23
1	Fe 238.204†	7274.4	5750.3	0.0366	mg/L	0.0366	mg/L	15:55:23
1	Fe 234.349†	1836.6	1752.7	0.0359	mg/L	0.0359	mg/L	15:55:43
1	Mg 279.077†	1202.9	1205.2	0.0443	mg/L	0.0443	mg/L	15:55:23
1	Mn 257.610†	1467.3	317.4	-0.0021	mg/L	-0.0021	mg/L	15:55:23
1	Mo 202.031†	1.4	2.8	-0.0024	mg/L	-0.0024	mg/L	15:55:43
1	Na 330.237†	2447.7	-59.8	0.2719	mg/L	0.2719	mg/L	15:55:23
1	Ni 231.604†	470.7	7.8	-0.0022	mg/L	-0.0022	mg/L	15:55:43
1	Pb 220.353†	-70.8	24.9	0.0012	mg/L	0.0012	mg/L	15:55:43
1	Sb 206.836†	82.6	-2.7	-0.0029	mg/L	-0.0029	mg/L	15:55:43
1	Se 196.026†	-3.2	2.6	-0.0007	mg/L	-0.0007	mg/L	15:55:43
1	Sn 189.927†	47.2	-61.8	-0.0265	mg/L	-0.0265	mg/L	15:55:43
1	Ti 337.279†	1390.9	229.3	0.0003	mg/L	0.0003	mg/L	15:55:23
1	Tl 190.801†	-18.0	-6.7	0.0040	mg/L	0.0040	mg/L	15:55:43
1	V 292.402†	2231.9	104.3	-0.0007	mg/L	-0.0007	mg/L	15:55:23
1	Zn 213.857†	1985.3	917.9	0.0081	mg/L	0.0081	mg/L	15:55:43
2	Y 360.073	2609579.0	2609579.0					15:55:49
2	Ag 328.068†	10493.2	11011.5	0.0344	mg/L	0.0344	mg/L	15:55:54
2	Al 237.313†	-26.4	280.9	0.0286	mg/L	0.0286	mg/L	15:56:14
2	As 188.979†	1.6	0.9	-0.0019	mg/L	-0.0019	mg/L	15:56:14
2	B 182.528†	-27.0	4.9	0.0025	mg/L	0.0025	mg/L	15:56:14
2	Ba 233.527†	-199.2	55.4	-0.0015	mg/L	-0.0015	mg/L	15:56:14
2	Be 313.107†	5121.5	128.0	-0.0001	mg/L	-0.0001	mg/L	15:55:49
2	Ca 315.886†	17614.4	13157.3	0.0609	mg/L	0.0609	mg/L	15:55:54
2	Cd 228.802†	429.5	38.8	0.0002	mg/L	0.0002	mg/L	15:56:14
2	Co 228.616†	-453.6	22.7	-0.0020	mg/L	-0.0020	mg/L	15:56:14
2	Cr 267.716†	1747.1	103.7	-0.0012	mg/L	-0.0012	mg/L	15:55:54
2	Cu 324.752†	10992.8	9453.7	0.0653	mg/L	0.0653	mg/L	15:55:54
2	Fe 238.204†	7064.1	5489.2	0.0346	mg/L	0.0346	mg/L	15:55:54
2	Fe 234.349†	1883.7	1786.0	0.0367	mg/L	0.0367	mg/L	15:56:14
2	Mg 279.077†	1115.5	1109.9	0.0399	mg/L	0.0399	mg/L	15:55:54
2	Mn 257.610†	1481.9	321.2	-0.0021	mg/L	-0.0021	mg/L	15:55:54
2	Mo 202.031†	5.3	6.7	-0.0021	mg/L	-0.0021	mg/L	15:56:14
2	Na 330.237†	2400.5	-124.3	0.1542	mg/L	0.1542	mg/L	15:55:54
2	Ni 231.604†	460.4	-5.9	-0.0024	mg/L	-0.0024	mg/L	15:56:14
2	Pb 220.353†	-82.3	14.0	0.0000	mg/L	0.0000	mg/L	15:56:14
2	Sb 206.836†	88.3	2.3	-0.0014	mg/L	-0.0014	mg/L	15:56:14
2	Se 196.026†	-4.9	1.0	-0.0029	mg/L	-0.0029	mg/L	15:56:14
2	Sn 189.927†	50.1	-59.3	-0.0257	mg/L	-0.0257	mg/L	15:56:14
2	Ti 337.279†	1276.6	106.0	0.0001	mg/L	0.0001	mg/L	15:55:54
2	Tl 190.801†	-17.0	-5.6	0.0051	mg/L	0.0051	mg/L	15:56:14
2	V 292.402†	2229.7	85.9	-0.0007	mg/L	-0.0007	mg/L	15:55:54
2	Zn 213.857†	1990.8	908.9	0.0080	mg/L	0.0080	mg/L	15:56:14

Mean Data: WASH

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 360.073	2600084.3						13427.52	0.52%
Ag 328.068†	11120.4	0.0348	mg/L	0.00048	0.0348	mg/L	0.00048	1.38%

Al 237.313†	250.2	0.0251 mg/L	0.00494	0.0251 mg/L	0.00494	19.66%
As 188.979†	0.8	-0.0019 mg/L	0.00005	-0.0019 mg/L	0.00005	2.52%
B 182.528†	4.3	0.0020 mg/L	0.00072	0.0020 mg/L	0.00072	36.53%
Ba 233.527†	51.6	-0.0015 mg/L	0.00003	-0.0015 mg/L	0.00003	1.89%
Be 313.107†	178.5	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	14.47%
Ca 315.886†	12990.6	0.0597 mg/L	0.00161	0.0597 mg/L	0.00161	2.70%
Cd 228.802†	35.4	0.0001 mg/L	0.00006	0.0001 mg/L	0.00006	52.51%
Co 228.616†	27.1	-0.0020 mg/L	0.00009	-0.0020 mg/L	0.00009	4.61%
Cr 267.716†	85.3	-0.0013 mg/L	0.00017	-0.0013 mg/L	0.00017	12.95%
Cu 324.752†	9574.4	0.0662 mg/L	0.00121	0.0662 mg/L	0.00121	1.82%
Fe 238.204†	5619.8	0.0356 mg/L	0.00145	0.0356 mg/L	0.00145	4.07%
Fe 234.349†	1769.3	0.0363 mg/L	0.00059	0.0363 mg/L	0.00059	1.63%
Mg 279.077†	1157.5	0.0421 mg/L	0.00311	0.0421 mg/L	0.00311	7.39%
Mn 257.610†	319.3	-0.0021 mg/L	0.00000	-0.0021 mg/L	0.00000	0.13%
Mo 202.031†	4.7	-0.0023 mg/L	0.00021	-0.0023 mg/L	0.00021	9.35%
Na 330.237†	-92.1	0.2131 mg/L	0.08322	0.2131 mg/L	0.08322	39.06%
Ni 231.604†	0.9	-0.0023 mg/L	0.00017	-0.0023 mg/L	0.00017	7.64%
Pb 220.353†	19.4	0.0006 mg/L	0.00087	0.0006 mg/L	0.00087	138.28%
Sb 206.836†	-0.2	-0.0021 mg/L	0.00104	-0.0021 mg/L	0.00104	48.30%
Se 196.026†	1.8	-0.0018 mg/L	0.00155	-0.0018 mg/L	0.00155	87.97%
Sn 189.927†	-60.6	-0.0261 mg/L	0.00059	-0.0261 mg/L	0.00059	2.27%
Ti 337.279†	167.6	0.0002 mg/L	0.00011	0.0002 mg/L	0.00011	50.26%
Tl 190.801†	-6.2	0.0045 mg/L	0.00078	0.0045 mg/L	0.00078	17.32%
V 292.402†	95.1	-0.0007 mg/L	0.00005	-0.0007 mg/L	0.00005	7.66%
Zn 213.857†	913.4	0.0081 mg/L	0.00007	0.0081 mg/L	0.00007	0.84%

ANALYSIS SEQUENCE

BPG0161

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606078-05RE1	Al: ppm Aluminum 6010	F	1				MACTEC Engineering & Consulting, In
0606078-05RE1	Fe: ppm Iron 6010	F	2				MACTEC Engineering & Consulting, In
0606078-05RE1	Mg: ppm Magnesium 6010	F	3				MACTEC Engineering & Consulting, In
0606078-05RE1	Ca: ppm Calcium 6010	F	4				MACTEC Engineering & Consulting, In
0606078-05RE1	Zn: ppm Zinc 6010	F	5				MACTEC Engineering & Consulting, In
BPG0161-CAL1	QC		6		6F05068		
BPG0161-CAL2	QC		7		6F07005		
BPG0161-CAL3	QC		8		6F07006		
BPG0161-CAL4	QC		9		6F07007		
BPG0161-ICV1	QC		10		6F07006		
BPG0161-SCV1	QC		11		6F07010		
BPG0161-ICB1	QC		12				
BPG0161-CRL1	QC		13		6F07011		
BPG0161-CRL2	QC		14		6F07012		
BPG0161-CRL3	QC		15		6F07013		
BPG0161-IFA1	QC		16		6E30072		
BPG0161-CCB1	QC		17				
BPG0161-CCV1	QC		18		6F07006		
BPG0161-IFB1	QC		19		6E30073		
BF60721-BLK2	QC		20				
BF60721-BS2	QC		21				
BF60721-BSD2	QC		22				
BF60721-SRM2	QC		23				
BF60721-DUP2	QC		24				
BF60721-MS2	QC		25				
BF60721-PS2	QC		26				
0606078-01	Al: ppm Aluminum 6010	A	27				MACTEC Engineering & Consulting, In
0606078-01	Fe: ppm Iron 6010	A	28				MACTEC Engineering & Consulting, In
0606078-01	Mg: ppm Magnesium 6010	A	29				MACTEC Engineering & Consulting, In
0606078-01	Ca: ppm Calcium 6010	A	30				MACTEC Engineering & Consulting, In
0606078-01RE1	Ag: ppm Silver 6010	F	31				MACTEC Engineering & Consulting, In
0606078-01RE1	Cu: ppm Copper 6010	F	32				MACTEC Engineering & Consulting, In
0606078-01RE1	Zn: ppm Zinc 6010	F	33				MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

BPG0161

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0161-CCB2	QC		34				
BPG0161-CCV2	QC		35		6F07006		
0606078-02	Cu: ppm Copper 6010	F	36				MACTEC Engineering & Consulting, In
0606078-02	Ag: ppm Silver 6010	F	37				MACTEC Engineering & Consulting, In
0606078-03	Cu: ppm Copper 6010	F	38				MACTEC Engineering & Consulting, In
0606078-03	Ag: ppm Silver 6010	F	39				MACTEC Engineering & Consulting, In
0606078-04RE1	Ag: ppm Silver 6010	F	40				MACTEC Engineering & Consulting, In
0606078-04RE1	Cu: ppm Copper 6010	F	41				MACTEC Engineering & Consulting, In
0606078-04RE1	Pb: ppm Lead 6010	F	42				MACTEC Engineering & Consulting, In
0606078-05RE1	Ag: ppm Silver 6010	F	43				MACTEC Engineering & Consulting, In
0606078-05RE1	Cu: ppm Copper 6010	F	44				MACTEC Engineering & Consulting, In
0606078-05RE1	Pb: ppm Lead 6010	F	45				MACTEC Engineering & Consulting, In
0606078-08RE1	Ag: ppm Silver 6010	F	46				MACTEC Engineering & Consulting, In
0606078-08RE1	Cu: ppm Copper 6010	F	47				MACTEC Engineering & Consulting, In
0606078-09	Cu: ppm Copper 6010	F	48				MACTEC Engineering & Consulting, In
0606078-09	Ag: ppm Silver 6010	F	49				MACTEC Engineering & Consulting, In
0606078-10RE1	Ag: ppm Silver 6010	F	50				MACTEC Engineering & Consulting, In
0606078-10RE1	Cu: ppm Copper 6010	F	51				MACTEC Engineering & Consulting, In
0606078-17RE1	Ag: ppm Silver 6010	F	52				MACTEC Engineering & Consulting, In
0606078-17RE1	Cu: ppm Copper 6010	F	53				MACTEC Engineering & Consulting, In
BPG0161-SRD1	QC		54				
BPG0161-CCB3	QC		55				
BPG0161-CCV3	QC		56		6F07006		
BPG0161-CCV4	QC		57		6F07006		
BPG0161-CCV5	QC		58		6F07006		
BPG0161-CCV6	QC		59		6F07006		
BPG0161-CCB4	QC		60				
BPG0161-CCB5	QC		61				
BPG0161-CCB6	QC		62				
BPG0161-IFA2	QC		63		6E30072		
BPG0161-IFB2	QC		64		6E30073		

Samples Loaded By Date

Data Processed By Date

Analytical Sequence

Method : Everything-DV

Seq.	Loc.	Sample ID
1	1	Calib Blank 1
2	2	Calib Std 1
3	3	Calib Std 2
4	4	Calib Std 3
5	160	ICSA
6	159	ICSAB
7	3	CCV
8	1	ICCB
9	9	BF60708-BLK1
10	10	BF60708-BS1
11	11	BF60708-BSD1
12	12	0606049-01TCLP
13	13	0606060-01
14	14	0606061-01
15	15	0606062-01
16	16	0606062-02
17	17	0606064-01
18	18	0606064-03
19	3	CCV
20	1	ICCB
21	19	0606085-01
22	20	0606085-02
23	21	BF60708-DUP1
24	22	BF60708-MS1
25	23	BF60708-SD1
26	24	BF60708-PDS1
27	25	0606082-01
28	26	BF60716-BLK1
29	27	BF60716-BS1
30	28	BF60716-BSD1
31	3	CCV
32	1	ICCB
33	29	0606090-01TCLP
34	30	0606092-01TCLP
35	31	0606095-01TCLP
36	32	BF60716-DUP1
37	33	BF60716-MS1
38	34	BF60716-SD1
39	35	BF60716-PDS1
40	36	0606101-01TCLP
41	37	BF60721-BLK1
42	38	BF60721-BS1
43	3	CCV
44	1	ICCB
45	39	BF60721-BSD1
46	40	BF60721-SRM1
47	41	0606078-01X5
48	42	0606078-02
49	43	0606078-03
50	44	0606078-04X20
51	45	0606078-05X20
52	46	BF60721-DUP1X20
53	47	BF60721-MS1X20
54	48	BF60721-MSD1X20
55	3	CCV
56	1	ICCB

Ag 0.005
As 0.01
Ba 0.01
Be 0.001
Cd 0.005
Cr 0.01
Cu 0.01
Fe 0.05
Ni 0.01
Pb 0.01
Sb 0.01
Se 0.02
Tl 0.1
Zn 0.01

Analytical Sequence

Method : Everything-DV

Seq.	Loc.		Sample ID
57	49		BF60721-SD1X100
58	50		BF60721-PDS1X20
59	51		0606078-08X5
60	52		0606078-09
61	53		0606078-10X10
62	54		0606078-17X10
63	55		0606118-03
64	3		CCV
65	1		ICCB
66	160		ICSA
67	159		ICSAB
68	0		WASH

Analytical Sequence

Method : Everything-DV

Seq.	Loc.		Sample ID
1	1		Calib Blank 1
2	2		Calib Std 1
3	3		Calib Std 2
4	4		Calib Std 3
5	3		STD2
6	5		ICV
7	1		ICCB
8	6		CRI1
9	7		CRI2
10	8		CRI3
11	160		ICSA
12	159		ICSAB
13	0		wash

Analysis Begun

Start Time: 6/7/2006 4:15:09 PM
Logged In Analyst: ICP3
Spectrometer Model: Optima 4300 DV, S/N 077N1032302
Plasma On Time: 6/7/2006 3:11:50 PM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\00dailycal.sif
Batch ID: dailycal
Results Data Set: 060706nad
Results Library: Q:\Metals\Results\ICP3\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 6/7/2006 4:15:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Blank 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	665.5	667.0	[0.00]	mg/L	16:16:44
1	Li 670.784†	167.5	167.9	[0.00]	mg/L	16:16:44
1	Na 589.592	9100.6	9100.6	[0.00]	mg/L	16:16:44
1	Y 371.029	3835011.7	3835011.7	0.998	mg/L	16:16:58
1	Ag 328.068†	-2372.6	-2378.2	[0.00]	mg/L	16:17:03
1	Al 237.313†	-209.8	-210.3	[0.00]	mg/L	16:17:23
1	As 188.979†	5.6	5.6	[0.00]	mg/L	16:17:23
1	B 182.528†	-7.5	-7.5	[0.00]	mg/L	16:17:23
1	Ba 233.527†	-169.6	-170.0	[0.00]	mg/L	16:17:23
1	Be 313.107†	369.7	370.5	[0.00]	mg/L	16:17:03
1	Ca 315.886†	2340.8	2346.3	[0.00]	mg/L	16:17:03
1	Cd 228.802†	147.4	147.7	[0.00]	mg/L	16:17:23
1	Co 228.616†	-201.1	-201.5	[0.00]	mg/L	16:17:23
1	Cr 267.716†	1878.0	1882.4	[0.00]	mg/L	16:17:03
1	Cu 324.752†	2844.0	2850.7	[0.00]	mg/L	16:17:03
1	Fe 234.349†	1480.8	1484.3	[0.00]	mg/L	16:17:03
1	Fe 238.204†	950.0	952.3	[0.00]	mg/L	16:17:23
1	Mg 279.077†	634.6	636.1	[0.00]	mg/L	16:17:03
1	Mn 257.610†	1405.8	1409.1	[0.00]	mg/L	16:17:03
1	Mo 202.031†	16.2	16.2	[0.00]	mg/L	16:17:23
1	Ni 231.604†	28.8	28.9	[0.00]	mg/L	16:17:23
1	P 214.914†	49.3	49.4	[0.00]	mg/L	16:17:23
1	Pb 220.353†	-160.1	-160.4	[0.00]	mg/L	16:17:23
1	Sb 206.836†	2.3	2.3	[0.00]	mg/L	16:17:23
1	Se 196.026†	-11.1	-11.1	[0.00]	mg/L	16:17:23
1	Sn 189.927†	221.9	222.5	[0.00]	mg/L	16:17:23
1	Sr 407.771†	6263.7	6278.4	[0.00]	mg/L	16:16:58
1	Ti 337.279†	-2199.2	-2204.4	[0.00]	mg/L	16:17:03
1	Tl 190.801†	-14.0	-14.0	[0.00]	mg/L	16:17:23
1	V 292.402†	-1571.0	-1574.7	[0.00]	mg/L	16:17:03
1	Zn 213.857†	757.0	758.7	[0.00]	mg/L	16:17:23
2	K 766.490†	662.4	660.8	[0.00]	mg/L	16:16:50
2	Li 670.784†	139.3	139.0	[0.00]	mg/L	16:16:50
2	Na 589.592	9146.5	9146.5	[0.00]	mg/L	16:16:50
2	Y 371.029	3853046.3	3853046.3	1.00	mg/L	16:17:29
2	Ag 328.068†	-2320.1	-2314.7	[0.00]	mg/L	16:17:34
2	Al 237.313†	-202.8	-202.3	[0.00]	mg/L	16:17:55
2	As 188.979†	8.1	8.1	[0.00]	mg/L	16:17:55
2	B 182.528†	-6.2	-6.2	[0.00]	mg/L	16:17:55
2	Ba 233.527†	-170.5	-170.1	[0.00]	mg/L	16:17:55
2	Be 313.107†	290.9	290.2	[0.00]	mg/L	16:17:34
2	Ca 315.886†	2323.8	2318.3	[0.00]	mg/L	16:17:34
2	Cd 228.802†	150.1	149.7	[0.00]	mg/L	16:17:55
2	Co 228.616†	-193.8	-193.3	[0.00]	mg/L	16:17:55
2	Cr 267.716†	1961.6	1957.0	[0.00]	mg/L	16:17:34
2	Cu 324.752†	2893.9	2887.1	[0.00]	mg/L	16:17:34
2	Fe 234.349†	1480.5	1477.1	[0.00]	mg/L	16:17:34
2	Fe 238.204†	914.1	911.9	[0.00]	mg/L	16:17:55

2	Mg 279.077†	660.0	658.5	[0.00]	mg/L	16:17:34
2	Mn 257.610†	1440.6	1437.2	[0.00]	mg/L	16:17:34
2	Mo 202.031†	19.4	19.3	[0.00]	mg/L	16:17:55
2	Ni 231.604†	37.4	37.3	[0.00]	mg/L	16:17:55
2	P 214.914†	71.3	71.2	[0.00]	mg/L	16:17:55
2	Pb 220.353†	-159.2	-158.8	[0.00]	mg/L	16:17:55
2	Sb 206.836†	7.6	7.5	[0.00]	mg/L	16:17:55
2	Se 196.026†	-9.2	-9.2	[0.00]	mg/L	16:17:55
2	Sn 189.927†	208.5	208.0	[0.00]	mg/L	16:17:55
2	Sr 407.771†	6374.4	6359.5	[0.00]	mg/L	16:17:29
2	Ti 337.279†	-2261.0	-2255.7	[0.00]	mg/L	16:17:34
2	Tl 190.801†	-18.1	-18.0	[0.00]	mg/L	16:17:55
2	V 292.402†	-1587.8	-1584.1	[0.00]	mg/L	16:17:34
2	Zn 213.857†	779.5	777.7	[0.00]	mg/L	16:17:55

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3844029.0	12752.39	0.33%	1.00	mg/L
Ag 328.068†	-2346.5	44.92	1.91%	[0.00]	mg/L
Al 237.313†	-206.3	5.67	2.75%	[0.00]	mg/L
As 188.979†	6.9	1.75	25.48%	[0.00]	mg/L
B 182.528†	-6.9	0.90	13.10%	[0.00]	mg/L
Ba 233.527†	-170.0	0.05	0.03%	[0.00]	mg/L
Be 313.107†	330.4	56.79	17.19%	[0.00]	mg/L
Ca 315.886†	2332.3	19.78	0.85%	[0.00]	mg/L
Cd 228.802†	148.7	1.41	0.94%	[0.00]	mg/L
Co 228.616†	-197.4	5.80	2.94%	[0.00]	mg/L
Cr 267.716†	1919.7	52.78	2.75%	[0.00]	mg/L
Cu 324.752†	2868.9	25.71	0.90%	[0.00]	mg/L
Fe 234.349†	1480.7	5.12	0.35%	[0.00]	mg/L
Fe 238.204†	932.1	28.53	3.06%	[0.00]	mg/L
K 766.490†	663.9	4.41	0.66%	[0.00]	mg/L
Li 670.784†	153.5	20.47	13.34%	[0.00]	mg/L
Mg 279.077†	647.3	15.87	2.45%	[0.00]	mg/L
Mn 257.610†	1423.1	19.89	1.40%	[0.00]	mg/L
Mo 202.031†	17.8	2.22	12.51%	[0.00]	mg/L
Na 589.592	9123.6	32.47	0.36%	[0.00]	mg/L
Ni 231.604†	33.1	5.96	17.98%	[0.00]	mg/L
P 214.914†	60.3	15.37	25.49%	[0.00]	mg/L
Pb 220.353†	-159.6	1.12	0.70%	[0.00]	mg/L
Sb 206.836†	4.9	3.70	75.14%	[0.00]	mg/L
Se 196.026†	-10.2	1.37	13.50%	[0.00]	mg/L
Sn 189.927†	215.3	10.20	4.74%	[0.00]	mg/L
Sr 407.771†	6319.0	57.33	0.91%	[0.00]	mg/L
Ti 337.279†	-2230.0	36.33	1.63%	[0.00]	mg/L
Tl 190.801†	-16.0	2.86	17.87%	[0.00]	mg/L
V 292.402†	-1579.4	6.66	0.42%	[0.00]	mg/L
Zn 213.857†	768.2	13.40	1.74%	[0.00]	mg/L

Sequence No.: 2
Sample ID: Calib Std 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/7/2006 4:19:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	10827.0	10316.5	[5.0000]	mg/L	16:21:10
1	Li 670.784†	4181.3	4087.1	[0.1]	mg/L	16:21:10
1	Na 589.592	52547.5	43423.9	[5.0000]	mg/L	16:21:10
1	Y 371.029	3790321.6	3790321.6	0.986	mg/L	16:21:24
1	Ag 328.068†	12463.0	14986.1	[0.05]	mg/L	16:21:29
1	Al 237.313†	3978.1	4240.8	[0.5]	mg/L	16:21:29
1	As 188.979†	87.2	81.5	[0.1000]	mg/L	16:21:49
1	B 182.528†	46.0	53.5	[0.1000]	mg/L	16:21:49
1	Ba 233.527†	11806.7	12144.0	[0.1000]	mg/L	16:21:29
1	Be 313.107†	47653.8	47998.7	[0.0100]	mg/L	16:21:29

1	Ca 315.886†	169356.7	169424.1	[1.0000]	mg/L	16:21:24
1	Cd 228.802†	2458.2	2344.3	[0.0500]	mg/L	16:21:49
1	Co 228.616†	4143.8	4400.0	[0.1000]	mg/L	16:21:49
1	Cr 267.716†	19140.6	17492.1	[0.1000]	mg/L	16:21:29
1	Cu 324.752†	28108.4	25637.8	[0.1000]	mg/L	16:21:29
1	Fe 234.349†	29635.9	28575.1	[0.5]	mg/L	16:21:29
1	Fe 238.204†	62946.2	62906.0	[0.5]	mg/L	16:21:29
1	Mg 279.077†	27097.2	26833.8	[1.0000]	mg/L	16:21:29
1	Mn 257.610†	96790.3	96738.7	[0.1000]	mg/L	16:21:29
1	Mo 202.031†	1609.3	1614.4	[0.1000]	mg/L	16:21:49
1	Ni 231.604†	3651.1	3669.7	[0.1000]	mg/L	16:21:29
1	P 214.914†	1537.1	1498.5	[1]	mg/L	16:21:49
1	Pb 220.353†	816.0	987.2	[0.1000]	mg/L	16:21:49
1	Sb 206.836†	234.8	233.2	[0.1000]	mg/L	16:21:49
1	Se 196.026†	180.8	193.5	[0.2000]	mg/L	16:21:49
1	Sn 189.927†	668.6	462.9	[0.1000]	mg/L	16:21:49
1	Sr 407.771†	258442.0	255785.0	[0.0100]	mg/L	16:21:24
1	Ti 337.279†	86294.1	89746.9	[0.1000]	mg/L	16:21:29
1	Tl 190.801†	96.6	114.0	[0.1000]	mg/L	16:21:49
1	V 292.402†	23899.3	25817.4	[0.1000]	mg/L	16:21:29
1	Zn 213.857†	9604.5	8972.4	[0.1000]	mg/L	16:21:29
2	K 766.490†	10867.4	10317.3	[5.0000]	mg/L	16:21:15
2	Li 670.784†	4122.1	4011.8	[0.1]	mg/L	16:21:15
2	Na 589.592	52781.2	43657.7	[5.0000]	mg/L	16:21:15
2	Y 371.029	3804183.7	3804183.7	0.990	mg/L	16:21:55
2	Ag 328.068†	12433.2	14909.9	[0.05]	mg/L	16:22:00
2	Al 237.313†	3991.9	4240.0	[0.5]	mg/L	16:22:00
2	As 188.979†	85.2	79.2	[0.1000]	mg/L	16:22:21
2	B 182.528†	40.8	48.1	[0.1000]	mg/L	16:22:21
2	Ba 233.527†	11738.6	12031.6	[0.1000]	mg/L	16:22:00
2	Be 313.107†	47632.1	47800.6	[0.0100]	mg/L	16:22:00
2	Ca 315.886†	170044.9	169493.6	[1.0000]	mg/L	16:21:55
2	Cd 228.802†	2441.1	2317.9	[0.0500]	mg/L	16:22:21
2	Co 228.616†	4130.4	4371.1	[0.1000]	mg/L	16:22:21
2	Cr 267.716†	19087.5	17367.7	[0.1000]	mg/L	16:22:00
2	Cu 324.752†	28031.2	25455.9	[0.1000]	mg/L	16:22:00
2	Fe 234.349†	29496.0	28324.2	[0.5]	mg/L	16:22:00
2	Fe 238.204†	62504.7	62227.3	[0.5]	mg/L	16:22:00
2	Mg 279.077†	26790.0	26423.3	[1.0000]	mg/L	16:22:00
2	Mn 257.610†	96096.4	95679.8	[0.1000]	mg/L	16:22:00
2	Mo 202.031†	1620.9	1620.2	[0.1000]	mg/L	16:22:21
2	Ni 231.604†	3636.5	3641.5	[0.1000]	mg/L	16:22:00
2	P 214.914†	1532.5	1488.3	[1]	mg/L	16:22:21
2	Pb 220.353†	814.4	982.6	[0.1000]	mg/L	16:22:21
2	Sb 206.836†	228.3	225.8	[0.1000]	mg/L	16:22:21
2	Se 196.026†	175.4	187.4	[0.2000]	mg/L	16:22:21
2	Sn 189.927†	653.8	445.3	[0.1000]	mg/L	16:22:21
2	Sr 407.771†	259407.3	255805.3	[0.0100]	mg/L	16:21:55
2	Ti 337.279†	86036.4	89167.6	[0.1000]	mg/L	16:22:00
2	Tl 190.801†	90.1	107.1	[0.1000]	mg/L	16:22:21
2	V 292.402†	23812.1	25640.9	[0.1000]	mg/L	16:22:00
2	Zn 213.857†	9580.6	8912.7	[0.1000]	mg/L	16:22:00

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3797252.7	9802.01	0.26%	0.988	mg/L
Ag 328.068†	14948.0	53.89	0.36%	[0.05]	mg/L
Al 237.313†	4240.4	0.54	0.01%	[0.5]	mg/L
As 188.979†	80.4	1.67	2.08%	[0.1000]	mg/L
B 182.528†	50.8	3.83	7.54%	[0.1000]	mg/L
Ba 233.527†	12087.8	79.51	0.66%	[0.1000]	mg/L
Be 313.107†	47899.7	140.07	0.29%	[0.0100]	mg/L
Ca 315.886†	169458.9	49.16	0.03%	[1.0000]	mg/L
Cd 228.802†	2331.1	18.61	0.80%	[0.0500]	mg/L
Co 228.616†	4385.6	20.42	0.47%	[0.1000]	mg/L
Cr 267.716†	17429.9	87.96	0.50%	[0.1000]	mg/L
Cu 324.752†	25546.8	128.63	0.50%	[0.1000]	mg/L
Fe 234.349†	28449.7	177.42	0.62%	[0.5]	mg/L
Fe 238.204†	62566.7	479.91	0.77%	[0.5]	mg/L
K 766.490†	10316.9	0.54	0.01%	[5.0000]	mg/L

Li 670.784†	4049.4	53.21	1.31%	[0.1]	mg/L
Mg 279.077†	26628.6	290.29	1.09%	[1.0000]	mg/L
Mn 257.610†	96209.2	748.75	0.78%	[0.1000]	mg/L
Mo 202.031†	1617.3	4.08	0.25%	[0.1000]	mg/L
Na 589.592	43540.8	165.27	0.38%	[5.0000]	mg/L
Ni 231.604†	3655.6	19.95	0.55%	[0.1000]	mg/L
P 214.914†	1493.4	7.27	0.49%	[1]	mg/L
Pb 220.353†	984.9	3.27	0.33%	[0.1000]	mg/L
Sb 206.836†	229.5	5.23	2.28%	[0.1000]	mg/L
Se 196.026†	190.5	4.34	2.28%	[0.2000]	mg/L
Sn 189.927†	454.1	12.39	2.73%	[0.1000]	mg/L
Sr 407.771†	255795.2	14.39	0.01%	[0.0100]	mg/L
Ti 337.279†	89457.3	409.63	0.46%	[0.1000]	mg/L
Tl 190.801†	110.5	4.89	4.42%	[0.1000]	mg/L
V 292.402†	25729.1	124.81	0.49%	[0.1000]	mg/L
Zn 213.857†	8942.5	42.22	0.47%	[0.1000]	mg/L

Sequence No.: 3
Sample ID: Calib Std 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/7/2006 4:23:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	51158.3	52065.2	[25.0000]	mg/L	16:25:33
1	Li 670.784†	19456.2	19900.2	[0.5]	mg/L	16:25:33
1	Na 589.592	221535.1	212411.5	[25.000]	mg/L	16:25:33
1	Y 371.029	3729515.8	3729515.8	0.970	mg/L	16:25:48
1	Ag 328.068†	69971.9	74466.8	[0.25]	mg/L	16:25:54
1	Al 237.313†	20311.6	21141.6	[2.5]	mg/L	16:25:54
1	As 188.979†	403.9	409.5	[0.5000]	mg/L	16:26:14
1	B 182.528†	240.5	254.7	[0.5000]	mg/L	16:26:14
1	Ba 233.527†	58092.0	60045.7	[0.5000]	mg/L	16:25:54
1	Be 313.107†	233859.2	240709.4	[0.0500]	mg/L	16:25:48
1	Ca 315.886†	821554.0	844447.1	[5.0000]	mg/L	16:25:48
1	Cd 228.802†	11526.8	11732.0	[0.2500]	mg/L	16:26:14
1	Co 228.616†	20434.8	21259.7	[0.5000]	mg/L	16:25:54
1	Cr 267.716†	85440.8	86144.5	[0.5000]	mg/L	16:25:54
1	Cu 324.752†	126760.3	127783.5	[0.5000]	mg/L	16:25:54
1	Fe 234.349†	136362.0	139068.3	[2.5]	mg/L	16:25:54
1	Fe 238.204†	297854.4	306067.8	[2.5]	mg/L	16:25:54
1	Mg 279.077†	127257.2	130517.3	[5.0000]	mg/L	16:25:54
1	Mn 257.610†	462395.0	475169.5	[0.5000]	mg/L	16:25:48
1	Mo 202.031†	7845.4	8068.6	[0.5000]	mg/L	16:26:14
1	Ni 231.604†	17516.2	18020.9	[0.5000]	mg/L	16:25:54
1	P 214.914†	7451.2	7619.7	[5]	mg/L	16:26:14
1	Pb 220.353†	4520.5	4819.0	[0.5000]	mg/L	16:26:14
1	Sb 206.836†	1084.7	1113.1	[0.5000]	mg/L	16:26:14
1	Se 196.026†	894.8	932.4	[1.0000]	mg/L	16:26:14
1	Sn 189.927†	2316.2	2172.0	[0.5000]	mg/L	16:26:14
1	Sr 407.771†	1222956.3	1254187.7	[0.0500]	mg/L	16:25:48
1	Ti 337.279†	434029.7	449586.5	[0.5000]	mg/L	16:25:48
1	Tl 190.801†	518.1	550.0	[0.5000]	mg/L	16:26:14
1	V 292.402†	123602.3	128976.8	[0.5000]	mg/L	16:25:54
1	Zn 213.857†	43236.0	43795.4	[0.5000]	mg/L	16:25:54
2	K 766.490†	50725.0	51856.0	[25.0000]	mg/L	16:25:38
2	Li 670.784†	19166.9	19691.7	[0.5]	mg/L	16:25:38
2	Na 589.592	220155.3	211031.8	[25.000]	mg/L	16:25:38
2	Y 371.029	3712653.1	3712653.1	0.966	mg/L	16:26:21
2	Ag 328.068†	70432.1	75270.8	[0.25]	mg/L	16:26:26
2	Al 237.313†	20692.8	21631.3	[2.5]	mg/L	16:26:26
2	As 188.979†	393.5	400.5	[0.5000]	mg/L	16:26:47
2	B 182.528†	241.0	256.4	[0.5000]	mg/L	16:26:47
2	Ba 233.527†	59092.1	61353.2	[0.5000]	mg/L	16:26:26
2	Be 313.107†	232161.6	240046.4	[0.0500]	mg/L	16:26:21
2	Ca 315.886†	814006.0	840478.0	[5.0000]	mg/L	16:26:21
2	Cd 228.802†	11558.0	11818.2	[0.2500]	mg/L	16:26:47
2	Co 228.616†	20706.6	21636.8	[0.5000]	mg/L	16:26:26

2	Cr 267.716†	86539.4	87682.0	[0.5000]	mg/L	16:26:26
2	Cu 324.752†	127632.5	129280.0	[0.5000]	mg/L	16:26:26
2	Fe 234.349†	138527.2	141948.5	[2.5]	mg/L	16:26:26
2	Fe 238.204†	302904.7	312691.2	[2.5]	mg/L	16:26:26
2	Mg 279.077†	128879.2	132792.5	[5.0000]	mg/L	16:26:26
2	Mn 257.610†	458278.0	473071.5	[0.5000]	mg/L	16:26:21
2	Mo 202.031†	7874.7	8135.6	[0.5000]	mg/L	16:26:47
2	Ni 231.604†	17708.3	18301.8	[0.5000]	mg/L	16:26:26
2	P 214.914†	7443.5	7646.6	[5]	mg/L	16:26:47
2	Pb 220.353†	4539.8	4860.1	[0.5000]	mg/L	16:26:47
2	Sb 206.836†	1102.5	1136.6	[0.5000]	mg/L	16:26:47
2	Se 196.026†	889.2	930.9	[1.0000]	mg/L	16:26:47
2	Sn 189.927†	2322.4	2189.3	[0.5000]	mg/L	16:26:47
2	Sr 407.771†	1215446.1	1252136.9	[0.0500]	mg/L	16:26:21
2	Ti 337.279†	431476.6	448974.8	[0.5000]	mg/L	16:26:21
2	Tl 190.801†	546.6	582.0	[0.5000]	mg/L	16:26:47
2	V 292.402†	125300.4	131313.7	[0.5000]	mg/L	16:26:26
2	Zn 213.857†	43866.1	44650.1	[0.5000]	mg/L	16:26:26

Mean Data: Calib Std 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3721084.5	11923.70	0.32%	0.968	mg/L
Ag 328.068†	74868.8	568.52	0.76%	[0.25]	mg/L
Al 237.313†	21386.5	346.30	1.62%	[2.5]	mg/L
As 188.979†	405.0	6.31	1.56%	[0.5000]	mg/L
B 182.528†	255.6	1.21	0.47%	[0.5000]	mg/L
Ba 233.527†	60699.4	924.52	1.52%	[0.5000]	mg/L
Be 313.107†	240377.9	468.80	0.20%	[0.0500]	mg/L
Ca 315.886†	842462.6	2806.54	0.33%	[5.0000]	mg/L
Cd 228.802†	11775.1	60.97	0.52%	[0.2500]	mg/L
Co 228.616†	21448.3	266.63	1.24%	[0.5000]	mg/L
Cr 267.716†	86913.2	1087.13	1.25%	[0.5000]	mg/L
Cu 324.752†	128531.8	1058.21	0.82%	[0.5000]	mg/L
Fe 234.349†	140508.4	2036.61	1.45%	[2.5]	mg/L
Fe 238.204†	309379.5	4683.45	1.51%	[2.5]	mg/L
K 766.490†	51960.6	147.90	0.28%	[25.0000]	mg/L
Li 670.784†	19795.9	147.44	0.74%	[0.5]	mg/L
Mg 279.077†	131654.9	1608.78	1.22%	[5.0000]	mg/L
Mn 257.610†	474120.5	1483.49	0.31%	[0.5000]	mg/L
Mo 202.031†	8102.1	47.42	0.59%	[0.5000]	mg/L
Na 589.592	211721.6	975.64	0.46%	[25.000]	mg/L
Ni 231.604†	18161.4	198.62	1.09%	[0.5000]	mg/L
P 214.914†	7633.1	18.99	0.25%	[5]	mg/L
Pb 220.353†	4839.5	29.11	0.60%	[0.5000]	mg/L
Sb 206.836†	1124.8	16.62	1.48%	[0.5000]	mg/L
Se 196.026†	931.6	1.09	0.12%	[1.0000]	mg/L
Sn 189.927†	2180.7	12.19	0.56%	[0.5000]	mg/L
Sr 407.771†	1253162.3	1450.13	0.12%	[0.0500]	mg/L
Ti 337.279†	449280.6	432.47	0.10%	[0.5000]	mg/L
Tl 190.801†	566.0	22.60	3.99%	[0.5000]	mg/L
V 292.402†	130145.2	1652.39	1.27%	[0.5000]	mg/L
Zn 213.857†	44222.8	604.42	1.37%	[0.5000]	mg/L

Sequence No.: 4
Sample ID: Calib Std 3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/7/2006 4:28:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 3

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	99841.8	103985.9	[50.0000]	mg/L	16:30:01
1	Li 670.784†	36957.5	38583.7	[1]	mg/L	16:30:01
1	Na 589.592	424775.9	415652.4	[50.000]	mg/L	16:30:01
1	Y 371.029	3667420.7	3667420.7	0.954	mg/L	16:30:18
1	Ag 328.068†	139365.5	148423.3	[0.5]	mg/L	16:30:24
1	Al 237.313†	40581.5	42742.1	[5]	mg/L	16:30:24

1	As 188.979†	774.5	804.9	[1.0000]	mg/L	16:30:44
1	B 182.528†	481.5	511.5	[1.0000]	mg/L	16:30:44
1	Ba 233.527†	115259.3	120979.7	[1.0000]	mg/L	16:30:24
1	Be 313.107†	460693.4	482548.2	[0.1000]	mg/L	16:30:24
1	Ca 315.886†	1597403.1	1671995.3	[10.0000]	mg/L	16:30:18
1	Cd 228.802†	22507.3	23442.4	[0.5000]	mg/L	16:30:44
1	Co 228.616†	40512.7	42661.1	[1.0000]	mg/L	16:30:24
1	Cr 267.716†	165903.8	171973.4	[1.0000]	mg/L	16:30:24
1	Cu 324.752†	243907.9	252784.7	[1.0000]	mg/L	16:30:24
1	Fe 234.349†	268587.1	280040.5	[5.0]	mg/L	16:30:24
1	Fe 238.204†	587656.8	615023.9	[5.0]	mg/L	16:30:24
1	Mg 279.077†	248591.7	259915.6	[10.0000]	mg/L	16:30:24
1	Mn 257.610†	892578.6	934138.4	[1.0000]	mg/L	16:30:18
1	Mo 202.031†	15301.2	16020.3	[1.0000]	mg/L	16:30:44
1	Ni 231.604†	33652.2	35239.7	[1.0000]	mg/L	16:30:24
1	P 214.914†	14660.5	15306.2	[10]	mg/L	16:30:44
1	Pb 220.353†	9011.2	9604.8	[1.0000]	mg/L	16:30:44
1	Sb 206.836†	2141.9	2240.1	[1.0000]	mg/L	16:30:44
1	Se 196.026†	1748.1	1842.4	[2.0000]	mg/L	16:30:44
1	Sn 189.927†	4262.7	4252.7	[1.0000]	mg/L	16:30:44
1	Sr 407.771†	2355736.6	2462860.4	[0.1000]	mg/L	16:30:18
1	Ti 337.279†	848745.8	891848.0	[1.0000]	mg/L	16:30:18
1	Tl 190.801†	1198.5	1272.2	[1.0000]	mg/L	16:30:44
1	V 292.402†	244733.8	258098.7	[1.0000]	mg/L	16:30:24
1	Zn 213.857†	84631.5	87938.8	[1.0000]	mg/L	16:30:24
2	K 766.490†	98585.1	103665.3	[50.0000]	mg/L	16:30:07
2	Li 670.784†	36765.0	38753.6	[1]	mg/L	16:30:07
2	Na 589.592	424959.7	415836.2	[50.000]	mg/L	16:30:07
2	Y 371.029	3632386.1	3632386.1	0.945	mg/L	16:30:52
2	Ag 328.068†	139946.7	150447.3	[0.5]	mg/L	16:30:58
2	Al 237.313†	40644.9	43219.4	[5]	mg/L	16:30:58
2	As 188.979†	774.0	812.2	[1.0000]	mg/L	16:31:18
2	B 182.528†	477.3	511.9	[1.0000]	mg/L	16:31:18
2	Ba 233.527†	115220.2	122103.6	[1.0000]	mg/L	16:30:58
2	Be 313.107†	461390.5	487943.3	[0.1000]	mg/L	16:30:58
2	Ca 315.886†	1581079.7	1670869.8	[10.0000]	mg/L	16:30:52
2	Cd 228.802†	22530.1	23694.1	[0.5000]	mg/L	16:31:18
2	Co 228.616†	40459.6	43014.4	[1.0000]	mg/L	16:30:58
2	Cr 267.716†	166500.8	174282.4	[1.0000]	mg/L	16:30:58
2	Cu 324.752†	246469.7	257961.5	[1.0000]	mg/L	16:30:58
2	Fe 234.349†	268384.8	282541.7	[5.0]	mg/L	16:30:58
2	Fe 238.204†	586770.2	620026.6	[5.0]	mg/L	16:30:58
2	Mg 279.077†	249182.6	263054.1	[10.0000]	mg/L	16:30:58
2	Mn 257.610†	883195.0	933231.7	[1.0000]	mg/L	16:30:52
2	Mo 202.031†	15346.9	16223.3	[1.0000]	mg/L	16:31:18
2	Ni 231.604†	34065.2	36016.9	[1.0000]	mg/L	16:30:58
2	P 214.914†	14674.9	15469.6	[10]	mg/L	16:31:18
2	Pb 220.353†	8995.8	9679.5	[1.0000]	mg/L	16:31:18
2	Sb 206.836†	2140.4	2260.2	[1.0000]	mg/L	16:31:18
2	Se 196.026†	1756.9	1869.5	[2.0000]	mg/L	16:31:18
2	Sn 189.927†	4253.5	4286.1	[1.0000]	mg/L	16:31:18
2	Sr 407.771†	2332332.3	2461907.9	[0.1000]	mg/L	16:30:52
2	Ti 337.279†	839597.1	890746.7	[1.0000]	mg/L	16:30:52
2	Tl 190.801†	1232.7	1320.5	[1.0000]	mg/L	16:31:18
2	V 292.402†	246099.3	262017.8	[1.0000]	mg/L	16:30:58
2	Zn 213.857†	84989.1	89172.8	[1.0000]	mg/L	16:30:58

Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3649903.4	24773.25	0.68%	0.949	mg/L
Ag 328.068†	149435.3	1431.17	0.96%	[0.5]	mg/L
Al 237.313†	42980.7	337.52	0.79%	[5]	mg/L
As 188.979†	808.6	5.16	0.64%	[1.0000]	mg/L
B 182.528†	511.7	0.29	0.06%	[1.0000]	mg/L
Ba 233.527†	121541.7	794.70	0.65%	[1.0000]	mg/L
Be 313.107†	485245.7	3814.90	0.79%	[0.1000]	mg/L
Ca 315.886†	1671432.6	795.82	0.05%	[10.0000]	mg/L
Cd 228.802†	23568.2	177.95	0.76%	[0.5000]	mg/L
Co 228.616†	42837.7	249.87	0.58%	[1.0000]	mg/L
Cr 267.716†	173127.9	1632.70	0.94%	[1.0000]	mg/L

Cu 324.752†	255373.1	3660.59	1.43%	[1.0000]	mg/L
Fe 234.349†	281291.1	1768.61	0.63%	[5.0]	mg/L
Fe 238.204†	617525.2	3537.46	0.57%	[5.0]	mg/L
K 766.490†	103825.6	226.67	0.22%	[50.0000]	mg/L
Li 670.784†	38668.7	120.14	0.31%	[1]	mg/L
Mg 279.077†	261484.9	2219.24	0.85%	[10.0000]	mg/L
Mn 257.610†	933685.0	641.17	0.07%	[1.0000]	mg/L
Mo 202.031†	16121.8	143.61	0.89%	[1.0000]	mg/L
Na 589.592	415744.3	129.96	0.03%	[50.000]	mg/L
Ni 231.604†	35628.3	549.60	1.54%	[1.0000]	mg/L
P 214.914†	15387.9	115.55	0.75%	[10]	mg/L
Pb 220.353†	9642.2	52.89	0.55%	[1.0000]	mg/L
Sb 206.836†	2250.1	14.19	0.63%	[1.0000]	mg/L
Se 196.026†	1855.9	19.10	1.03%	[2.0000]	mg/L
Sn 189.927†	4269.4	23.62	0.55%	[1.0000]	mg/L
Sr 407.771†	2462384.2	673.49	0.03%	[0.1000]	mg/L
Ti 337.279†	891297.4	778.75	0.09%	[1.0000]	mg/L
Tl 190.801†	1296.4	34.13	2.63%	[1.0000]	mg/L
V 292.402†	260058.2	2771.25	1.07%	[1.0000]	mg/L
Zn 213.857†	88555.8	872.61	0.99%	[1.0000]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	30.0	298900	0.00000	0.999999	
Al 237.313	3	Lin, Calc Int	-44.8	8598	0.00000	0.999997	
As 188.979	3	Lin, Calc Int	-0.1	808.9	0.00000	0.999999	
B 182.528	3	Lin, Calc Int	-0.2	511.8	0.00000	1.000000	
Ba 233.527	3	Lin, Calc Int	-42.7	121600	0.00000	1.000000	
Be 313.107	3	Lin, Calc Int	-693.6	4852000	0.00000	0.999988	
Ca 315.886	3	Lin, Calc Int	2278.4	167100	0.00000	0.999991	
Cd 228.802	3	Lin, Calc Int	-13.1	47160	0.00000	0.999999	
Co 228.616	3	Lin, Calc Int	50.6	42790	0.00000	0.999997	
Cr 267.716	3	Lin, Calc Int	116.7	173100	0.00000	0.999998	
Cu 324.752	3	Lin, Calc Int	161.0	255500	0.00000	0.999994	
Fe 234.349	3	Lin, Calc Int	116.7	56220	0.00000	0.999999	
Fe 238.204	3	Lin, Calc Int	475.5	123400	0.00000	0.999999	
K 766.490	3	Lin, Calc Int	-20.3	2077	0.00000	1.000000	
Li 670.784	3	Lin, Calc Int	166.6	38650	0.00000	0.999923	
Mg 279.077	3	Lin, Calc Int	382.2	26140	0.00000	0.999993	
Mn 257.610	3	Lin, Calc Int	2609.9	933500	0.00000	0.999967	
Mo 202.031	3	Lin, Calc Int	9.9	16130	0.00000	0.999996	
Na 589.592	3	Lin, Calc Int	1586.2	8308	0.00000	0.999953	
Ni 231.604	3	Lin, Calc Int	105.6	35640	0.00000	0.999949	
P 214.914	3	Lin, Calc Int	-31.4	1540	0.00000	0.999990	
Pb 220.353	3	Lin, Calc Int	12.6	9635	0.00000	0.999997	
Sb 206.836	3	Lin, Calc Int	1.9	2248	0.00000	0.999998	
Se 196.026	3	Lin, Calc Int	2.8	927.1	0.00000	0.999996	
Sn 189.927	3	Lin, Calc Int	20.6	4264	0.00000	0.999934	
Sr 407.771	3	Lin, Calc Int	8314.0	24610000	0.00000	0.999957	
Ti 337.279	3	Lin, Calc Int	818.9	891700	0.00000	0.999991	
Tl 190.801	3	Lin, Calc Int	-23.7	1292	0.00000	0.997814	
V 292.402	3	Lin, Calc Int	-101.2	260200	0.00000	0.999999	
Zn 213.857	3	Lin, Calc Int	28.3	88500	0.00000	0.999999	

Sequence No.: 5
Sample ID: STD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/7/2006 4:32:57 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: STD2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490†	49894.2	51152.8	24.63	mg/L	24.63	mg/L	16:34:34
1	Li 670.784†	18635.0	19199.5	0.4924	mg/L	0.4924	mg/L	16:34:34
1	Na 589.592	216408.5	207284.9	24.76	mg/L	24.76	mg/L	16:34:34
1	Y 371.029	3701410.2	3701410.2	0.963	mg/L			16:34:49
1	Ag 328.068†	69861.1	74899.4	0.2509	mg/L	0.2509	mg/L	16:34:55

1	Al 237.313†	20426.9	21420.2	2.487 mg/L	2.487 mg/L	16:34:55
1	As 188.979†	386.1	394.1	0.4862 mg/L	0.4862 mg/L	16:35:15
1	B 182.528†	236.6	252.6	0.4938 mg/L	0.4938 mg/L	16:35:15
1	Ba 233.527†	58289.9	60705.9	0.4996 mg/L	0.4996 mg/L	16:34:55
1	Be 313.107†	230235.5	238776.3	0.0489 mg/L	0.0489 mg/L	16:34:49
1	Ca 315.886†	805979.6	834702.4	4.983 mg/L	4.983 mg/L	16:34:49
1	Cd 228.802†	11443.8	11736.0	0.2490 mg/L	0.2490 mg/L	16:35:15
1	Co 228.616†	20506.1	21493.7	0.4999 mg/L	0.4999 mg/L	16:34:55
1	Cr 267.716†	85504.5	86879.3	0.5007 mg/L	0.5007 mg/L	16:34:55
1	Cu 324.752†	126398.2	128399.6	0.5026 mg/L	0.5026 mg/L	16:34:55
1	Fe 234.349†	137096.2	140897.9	2.498 mg/L	2.498 mg/L	16:34:55
1	Fe 238.204†	299052.1	309642.8	2.505 mg/L	2.505 mg/L	16:34:55
1	Mg 279.077†	126996.7	131242.7	5.010 mg/L	5.010 mg/L	16:34:55
1	Mn 257.610†	454265.1	470345.2	0.5012 mg/L	0.5012 mg/L	16:34:49
1	Mo 202.031†	7767.6	8049.2	0.4985 mg/L	0.4985 mg/L	16:35:15
1	Ni 231.604†	17477.7	18118.1	0.5060 mg/L	0.5060 mg/L	16:34:55
1	P 214.914†	7339.9	7562.4	4.931 mg/L	4.931 mg/L	16:35:15
1	Pb 220.353†	4481.5	4813.8	0.4995 mg/L	0.4995 mg/L	16:35:15
1	Sb 206.836†	1085.1	1122.0	0.4876 mg/L	0.4876 mg/L	16:35:15
1	Se 196.026†	877.8	921.8	0.9912 mg/L	0.9912 mg/L	16:35:15
1	Sn 189.927†	2235.2	2106.0	0.4897 mg/L	0.4897 mg/L	16:35:15
1	Sr 407.771†	1207113.2	1247305.4	0.0503 mg/L	0.0503 mg/L	16:34:49
1	Ti 337.279†	428219.0	446948.8	0.5003 mg/L	0.5003 mg/L	16:34:49
1	Tl 190.801†	597.6	636.6	0.5136 mg/L	0.5136 mg/L	16:35:15
1	V 292.402†	123689.0	130034.3	0.5072 mg/L	0.5072 mg/L	16:34:55
1	Zn 213.857†	43412.5	44317.0	0.4979 mg/L	0.4979 mg/L	16:34:55
2	K 766.490†	50362.3	52076.8	25.08 mg/L	25.08 mg/L	16:34:39
2	Li 670.784†	18712.0	19442.3	0.4987 mg/L	0.4987 mg/L	16:34:39
2	Na 589.592	216697.9	207574.3	24.79 mg/L	24.79 mg/L	16:34:39
2	Y 371.029	3670679.0	3670679.0	0.955 mg/L		16:35:22
2	Ag 328.068†	69695.8	75333.7	0.2524 mg/L	0.2524 mg/L	16:35:27
2	Al 237.313†	20269.0	21432.5	2.489 mg/L	2.489 mg/L	16:35:27
2	As 188.979†	388.2	399.6	0.4930 mg/L	0.4930 mg/L	16:35:47
2	B 182.528†	239.6	257.8	0.5041 mg/L	0.5041 mg/L	16:35:47
2	Ba 233.527†	58020.4	60930.5	0.5015 mg/L	0.5015 mg/L	16:35:27
2	Be 313.107†	228550.8	239013.8	0.0490 mg/L	0.0490 mg/L	16:35:22
2	Ca 315.886†	799200.2	834610.5	4.982 mg/L	4.982 mg/L	16:35:22
2	Cd 228.802†	11435.3	11826.6	0.2509 mg/L	0.2509 mg/L	16:35:47
2	Co 228.616†	20417.9	21579.6	0.5019 mg/L	0.5019 mg/L	16:35:27
2	Cr 267.716†	84773.8	86857.6	0.5006 mg/L	0.5006 mg/L	16:35:27
2	Cu 324.752†	125052.5	128089.3	0.5014 mg/L	0.5014 mg/L	16:35:27
2	Fe 234.349†	136626.7	141598.2	2.511 mg/L	2.511 mg/L	16:35:27
2	Fe 238.204†	297485.9	310602.7	2.513 mg/L	2.513 mg/L	16:35:27
2	Mg 279.077†	126276.8	131593.0	5.024 mg/L	5.024 mg/L	16:35:27
2	Mn 257.610†	451194.4	471079.2	0.5019 mg/L	0.5019 mg/L	16:35:22
2	Mo 202.031†	7792.0	8142.2	0.5043 mg/L	0.5043 mg/L	16:35:47
2	Ni 231.604†	17340.6	18126.3	0.5063 mg/L	0.5063 mg/L	16:35:27
2	P 214.914†	7349.5	7636.3	4.979 mg/L	4.979 mg/L	16:35:47
2	Pb 220.353†	4454.2	4824.2	0.5006 mg/L	0.5006 mg/L	16:35:47
2	Sb 206.836†	1089.4	1135.9	0.4938 mg/L	0.4938 mg/L	16:35:47
2	Se 196.026†	877.1	928.7	0.9986 mg/L	0.9986 mg/L	16:35:47
2	Sn 189.927†	2234.4	2124.7	0.4941 mg/L	0.4941 mg/L	16:35:47
2	Sr 407.771†	1197558.5	1247794.9	0.0504 mg/L	0.0504 mg/L	16:35:22
2	Ti 337.279†	424775.7	447066.0	0.5004 mg/L	0.5004 mg/L	16:35:22
2	Tl 190.801†	588.8	632.6	0.5104 mg/L	0.5104 mg/L	16:35:47
2	V 292.402†	122452.0	129814.3	0.5064 mg/L	0.5064 mg/L	16:35:27
2	Zn 213.857†	43159.7	44429.7	0.4992 mg/L	0.4992 mg/L	16:35:27

Mean Data: STD2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3686044.6	0.959	mg/L	0.0057				0.59%
Ag 328.068†	75116.6	0.2517	mg/L	0.00103	0.2517	mg/L	0.00103	0.41%
QC value within limits for Ag 328.068 Recovery = 100.66%								
Al 237.313†	21426.4	2.488	mg/L	0.0010	2.488	mg/L	0.0010	0.04%
QC value within limits for Al 237.313 Recovery = 99.52%								
As 188.979†	396.9	0.4896	mg/L	0.00480	0.4896	mg/L	0.00480	0.98%
QC value within limits for As 188.979 Recovery = 97.92%								
B 182.528†	255.2	0.4989	mg/L	0.00727	0.4989	mg/L	0.00727	1.46%
QC value within limits for B 182.528 Recovery = 99.79%								
Ba 233.527†	60818.2	0.5006	mg/L	0.00131	0.5006	mg/L	0.00131	0.26%

QC value within limits for Ba 233.527 Recovery = 100.11%						
Be 313.107†	238895.1	0.0489 mg/L	0.00003	0.0489 mg/L	0.00003	0.07%
QC value within limits for Be 313.107 Recovery = 97.87%						
Ca 315.886†	834656.5	4.983 mg/L	0.0004	4.983 mg/L	0.0004	0.01%
QC value within limits for Ca 315.886 Recovery = 99.65%						
Cd 228.802†	11781.3	0.2499 mg/L	0.00134	0.2499 mg/L	0.00134	0.54%
QC value within limits for Cd 228.802 Recovery = 99.98%						
Co 228.616†	21536.6	0.5009 mg/L	0.00142	0.5009 mg/L	0.00142	0.28%
QC value within limits for Co 228.616 Recovery = 100.18%						
Cr 267.716†	86868.5	0.5007 mg/L	0.00009	0.5007 mg/L	0.00009	0.02%
QC value within limits for Cr 267.716 Recovery = 100.14%						
Cu 324.752†	128244.4	0.5020 mg/L	0.00086	0.5020 mg/L	0.00086	0.17%
QC value within limits for Cu 324.752 Recovery = 100.41%						
Fe 234.349†	141248.1	2.505 mg/L	0.0088	2.505 mg/L	0.0088	0.35%
QC value within limits for Fe 234.349 Recovery = 100.19%						
Fe 238.204†	310122.8	2.509 mg/L	0.0055	2.509 mg/L	0.0055	0.22%
QC value within limits for Fe 238.204 Recovery = 100.36%						
K 766.490†	51614.8	24.86 mg/L	0.315	24.86 mg/L	0.315	1.27%
QC value within limits for K 766.490 Recovery = 99.43%						
Li 670.784†	19320.9	0.4955 mg/L	0.00444	0.4955 mg/L	0.00444	0.90%
QC value within limits for Li 670.784 Recovery = 99.10%						
Mg 279.077†	131417.9	5.017 mg/L	0.0095	5.017 mg/L	0.0095	0.19%
QC value within limits for Mg 279.077 Recovery = 100.34%						
Mn 257.610†	470712.2	0.5015 mg/L	0.00056	0.5015 mg/L	0.00056	0.11%
QC value within limits for Mn 257.610 Recovery = 100.31%						
Mo 202.031†	8095.7	0.5014 mg/L	0.00408	0.5014 mg/L	0.00408	0.81%
QC value within limits for Mo 202.031 Recovery = 100.28%						
Na 589.592	207429.6	24.78 mg/L	0.025	24.78 mg/L	0.025	0.10%
QC value within limits for Na 589.592 Recovery = 99.10%						
Ni 231.604†	18122.2	0.5061 mg/L	0.00017	0.5061 mg/L	0.00017	0.03%
QC value within limits for Ni 231.604 Recovery = 101.23%						
P 214.914†	7599.4	4.955 mg/L	0.0339	4.955 mg/L	0.0339	0.68%
QC value within limits for P 214.914 Recovery = 99.10%						
Pb 220.353†	4819.0	0.5000 mg/L	0.00077	0.5000 mg/L	0.00077	0.15%
QC value within limits for Pb 220.353 Recovery = 100.00%						
Sb 206.836†	1129.0	0.4907 mg/L	0.00434	0.4907 mg/L	0.00434	0.89%
QC value within limits for Sb 206.836 Recovery = 98.14%						
Se 196.026†	925.2	0.9949 mg/L	0.00528	0.9949 mg/L	0.00528	0.53%
QC value within limits for Se 196.026 Recovery = 99.49%						
Sn 189.927†	2115.4	0.4919 mg/L	0.00309	0.4919 mg/L	0.00309	0.63%
QC value within limits for Sn 189.927 Recovery = 98.39%						
Sr 407.771†	1247550.2	0.0503 mg/L	0.00001	0.0503 mg/L	0.00001	0.03%
QC value within limits for Sr 407.771 Recovery = 100.70%						
Ti 337.279†	447007.4	0.5004 mg/L	0.00009	0.5004 mg/L	0.00009	0.02%
QC value within limits for Ti 337.279 Recovery = 100.07%						
Tl 190.801†	634.6	0.5120 mg/L	0.00221	0.5120 mg/L	0.00221	0.43%
QC value within limits for Tl 190.801 Recovery = 102.40%						
V 292.402†	129924.3	0.5068 mg/L	0.00053	0.5068 mg/L	0.00053	0.10%
QC value within limits for V 292.402 Recovery = 101.36%						
Zn 213.857†	44373.4	0.4985 mg/L	0.00090	0.4985 mg/L	0.00090	0.18%
QC value within limits for Zn 213.857 Recovery = 99.71%						

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/7/2006 4:37:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	49989.8	51034.1	24.58	mg/L	24.58	mg/L	16:39:05
1	Li 670.784†	18450.7	18927.8	0.4854	mg/L	0.4854	mg/L	16:39:05
1	Na 589.592	211960.3	202836.8	24.22	mg/L	24.22	mg/L	16:39:05
1	Y 371.029	3717013.8	3717013.8	0.967	mg/L			16:39:20
1	Ag 328.068†	70455.6	75209.7	0.2520	mg/L	0.2520	mg/L	16:39:26
1	Al 237.313†	20009.7	20899.8	2.427	mg/L	2.427	mg/L	16:39:26
1	As 188.979†	369.2	375.0	0.4626	mg/L	0.4626	mg/L	16:39:46
1	B 182.528†	230.3	245.1	0.4792	mg/L	0.4792	mg/L	16:39:46

1	Ba 233.527†	56926.7	59042.0	0.4860 mg/L	0.4860 mg/L	16:39:26
1	Be 313.107†	231827.0	239418.5	0.0491 mg/L	0.0491 mg/L	16:39:20
1	Ca 315.886†	811677.3	837081.1	4.997 mg/L	4.997 mg/L	16:39:20
1	Cd 228.802†	11345.8	11584.8	0.2459 mg/L	0.2459 mg/L	16:39:46
1	Co 228.616†	20123.1	21008.2	0.4886 mg/L	0.4886 mg/L	16:39:26
1	Cr 267.716†	84733.8	85709.6	0.4940 mg/L	0.4940 mg/L	16:39:26
1	Cu 324.752†	125079.6	126484.9	0.4951 mg/L	0.4951 mg/L	16:39:26
1	Fe 234.349†	137089.2	140293.0	2.488 mg/L	2.488 mg/L	16:39:26
1	Fe 238.204†	299023.4	308309.4	2.494 mg/L	2.494 mg/L	16:39:26
1	Mg 279.077†	123931.9	127519.6	4.868 mg/L	4.868 mg/L	16:39:26
1	Mn 257.610†	453437.6	467509.0	0.4981 mg/L	0.4981 mg/L	16:39:20
1	Mo 202.031†	7610.4	7852.6	0.4863 mg/L	0.4863 mg/L	16:39:46
1	Ni 231.604†	17196.9	17751.4	0.4957 mg/L	0.4957 mg/L	16:39:26
1	P 214.914†	7107.3	7289.8	4.754 mg/L	4.754 mg/L	16:39:46
1	Pb 220.353†	4381.7	4691.1	0.4867 mg/L	0.4867 mg/L	16:39:46
1	Sb 206.836†	1050.8	1081.7	0.4699 mg/L	0.4699 mg/L	16:39:46
1	Se 196.026†	857.0	896.5	0.9639 mg/L	0.9639 mg/L	16:39:46
1	Sn 189.927†	2192.8	2052.5	0.4771 mg/L	0.4771 mg/L	16:39:46
1	Sr 407.771†	1205622.7	1240501.4	0.0501 mg/L	0.0501 mg/L	16:39:20
1	Ti 337.279†	400840.0	416767.2	0.4665 mg/L	0.4665 mg/L	16:39:20
1	Tl 190.801†	580.9	616.8	0.4983 mg/L	0.4983 mg/L	16:39:46
1	V 292.402†	121336.6	127062.2	0.4956 mg/L	0.4956 mg/L	16:39:26
1	Zn 213.857†	43151.7	43858.0	0.4928 mg/L	0.4928 mg/L	16:39:26
2	K 766.490†	50001.1	51420.8	24.76 mg/L	24.76 mg/L	16:39:10
2	Li 670.784†	18449.1	19064.4	0.4889 mg/L	0.4889 mg/L	16:39:10
2	Na 589.592	212686.0	203562.4	24.31 mg/L	24.31 mg/L	16:39:10
2	Y 371.029	3690251.1	3690251.1	0.960 mg/L		16:39:53
2	Ag 328.068†	69393.4	74631.6	0.2500 mg/L	0.2500 mg/L	16:39:58
2	Al 237.313†	19901.3	20936.9	2.431 mg/L	2.431 mg/L	16:39:58
2	As 188.979†	372.5	381.1	0.4702 mg/L	0.4702 mg/L	16:40:18
2	B 182.528†	235.3	252.0	0.4927 mg/L	0.4927 mg/L	16:40:18
2	Ba 233.527†	56496.8	59021.1	0.4858 mg/L	0.4858 mg/L	16:39:58
2	Be 313.107†	230230.6	239494.3	0.0491 mg/L	0.0491 mg/L	16:39:53
2	Ca 315.886†	802269.9	833369.3	4.975 mg/L	4.975 mg/L	16:39:53
2	Cd 228.802†	11401.2	11727.5	0.2488 mg/L	0.2488 mg/L	16:40:18
2	Co 228.616†	19982.1	21012.2	0.4887 mg/L	0.4887 mg/L	16:39:58
2	Cr 267.716†	84282.3	85874.7	0.4949 mg/L	0.4949 mg/L	16:39:58
2	Cu 324.752†	124778.5	127109.3	0.4976 mg/L	0.4976 mg/L	16:39:58
2	Fe 234.349†	135838.2	140018.1	2.483 mg/L	2.483 mg/L	16:39:58
2	Fe 238.204†	296467.2	307889.3	2.491 mg/L	2.491 mg/L	16:39:58
2	Mg 279.077†	122523.8	126982.3	4.847 mg/L	4.847 mg/L	16:39:58
2	Mn 257.610†	448546.3	465814.7	0.4963 mg/L	0.4963 mg/L	16:39:53
2	Mo 202.031†	7649.1	7950.1	0.4924 mg/L	0.4924 mg/L	16:40:18
2	Ni 231.604†	17344.0	18033.6	0.5036 mg/L	0.5036 mg/L	16:39:58
2	P 214.914†	7122.7	7359.2	4.799 mg/L	4.799 mg/L	16:40:18
2	Pb 220.353†	4373.5	4715.4	0.4892 mg/L	0.4892 mg/L	16:40:18
2	Sb 206.836†	1058.1	1097.3	0.4767 mg/L	0.4767 mg/L	16:40:18
2	Se 196.026†	870.2	916.6	0.9856 mg/L	0.9856 mg/L	16:40:18
2	Sn 189.927†	2214.6	2091.6	0.4863 mg/L	0.4863 mg/L	16:40:18
2	Sr 407.771†	1195656.3	1239161.9	0.0500 mg/L	0.0500 mg/L	16:39:53
2	Ti 337.279†	397825.5	416633.4	0.4663 mg/L	0.4663 mg/L	16:39:53
2	Tl 190.801†	584.6	625.0	0.5046 mg/L	0.5046 mg/L	16:40:18
2	V 292.402†	120634.6	127241.0	0.4964 mg/L	0.4964 mg/L	16:39:58
2	Zn 213.857†	42934.9	43955.9	0.4938 mg/L	0.4938 mg/L	16:39:58

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3703632.5	0.963	mg/L	0.0049				0.51%
Ag 328.068†	74920.6	0.2510	mg/L	0.00137	0.2510	mg/L	0.00137	0.54%
QC value within limits for Ag 328.068 Recovery = 100.40%								
Al 237.313†	20918.3	2.429	mg/L	0.0031	2.429	mg/L	0.0031	0.13%
QC value within limits for Al 237.313 Recovery = 97.16%								
As 188.979†	378.1	0.4664	mg/L	0.00539	0.4664	mg/L	0.00539	1.16%
QC value within limits for As 188.979 Recovery = 93.28%								
B 182.528†	248.5	0.4860	mg/L	0.00956	0.4860	mg/L	0.00956	1.97%
QC value within limits for B 182.528 Recovery = 97.19%								
Ba 233.527†	59031.6	0.4859	mg/L	0.00012	0.4859	mg/L	0.00012	0.02%
QC value within limits for Ba 233.527 Recovery = 97.18%								
Be 313.107†	239456.4	0.0491	mg/L	0.00001	0.0491	mg/L	0.00001	0.02%
QC value within limits for Be 313.107 Recovery = 98.18%								

Ca 315.886†	835225.2	4.986 mg/L	0.0157	4.986 mg/L	0.0157	0.31%
QC value within limits for Ca 315.886 Recovery = 99.72%						
Cd 228.802†	11656.2	0.2474 mg/L	0.00211	0.2474 mg/L	0.00211	0.85%
QC value within limits for Cd 228.802 Recovery = 98.94%						
Co 228.616†	21010.2	0.4887 mg/L	0.00006	0.4887 mg/L	0.00006	0.01%
QC value within limits for Co 228.616 Recovery = 97.74%						
Cr 267.716†	85792.1	0.4945 mg/L	0.00067	0.4945 mg/L	0.00067	0.14%
QC value within limits for Cr 267.716 Recovery = 98.89%						
Cu 324.752†	126797.1	0.4963 mg/L	0.00173	0.4963 mg/L	0.00173	0.35%
QC value within limits for Cu 324.752 Recovery = 99.27%						
Fe 234.349†	140155.6	2.485 mg/L	0.0035	2.485 mg/L	0.0035	0.14%
QC value within limits for Fe 234.349 Recovery = 99.41%						
Fe 238.204†	308099.3	2.493 mg/L	0.0024	2.493 mg/L	0.0024	0.10%
QC value within limits for Fe 238.204 Recovery = 99.70%						
K 766.490†	51227.5	24.67 mg/L	0.132	24.67 mg/L	0.132	0.53%
QC value within limits for K 766.490 Recovery = 98.68%						
Li 670.784†	18996.1	0.4871 mg/L	0.00250	0.4871 mg/L	0.00250	0.51%
QC value within limits for Li 670.784 Recovery = 97.42%						
Mg 279.077†	127250.9	4.858 mg/L	0.0145	4.858 mg/L	0.0145	0.30%
QC value within limits for Mg 279.077 Recovery = 97.15%						
Mn 257.610†	466661.9	0.4972 mg/L	0.00128	0.4972 mg/L	0.00128	0.26%
QC value within limits for Mn 257.610 Recovery = 99.44%						
Mo 202.031†	7901.4	0.4894 mg/L	0.00427	0.4894 mg/L	0.00427	0.87%
QC value within limits for Mo 202.031 Recovery = 97.87%						
Na 589.592	203199.6	24.27 mg/L	0.062	24.27 mg/L	0.062	0.25%
QC value within limits for Na 589.592 Recovery = 97.07%						
Ni 231.604†	17892.5	0.4997 mg/L	0.00560	0.4997 mg/L	0.00560	1.12%
QC value within limits for Ni 231.604 Recovery = 99.94%						
P 214.914†	7324.5	4.777 mg/L	0.0319	4.777 mg/L	0.0319	0.67%
QC value within limits for P 214.914 Recovery = 95.53%						
Pb 220.353†	4703.2	0.4880 mg/L	0.00179	0.4880 mg/L	0.00179	0.37%
QC value within limits for Pb 220.353 Recovery = 97.59%						
Sb 206.836†	1089.5	0.4733 mg/L	0.00485	0.4733 mg/L	0.00485	1.03%
QC value within limits for Sb 206.836 Recovery = 94.66%						
Se 196.026†	906.5	0.9747 mg/L	0.01535	0.9747 mg/L	0.01535	1.58%
QC value within limits for Se 196.026 Recovery = 97.47%						
Sn 189.927†	2072.0	0.4817 mg/L	0.00649	0.4817 mg/L	0.00649	1.35%
QC value within limits for Sn 189.927 Recovery = 96.35%						
Sr 407.771†	1239831.7	0.0500 mg/L	0.00004	0.0500 mg/L	0.00004	0.08%
QC value within limits for Sr 407.771 Recovery = 100.07%						
Ti 337.279†	416700.3	0.4664 mg/L	0.00011	0.4664 mg/L	0.00011	0.02%
QC value within limits for Ti 337.279 Recovery = 93.28%						
Tl 190.801†	620.9	0.5015 mg/L	0.00446	0.5015 mg/L	0.00446	0.89%
QC value within limits for Tl 190.801 Recovery = 100.30%						
V 292.402†	127151.6	0.4960 mg/L	0.00056	0.4960 mg/L	0.00056	0.11%
QC value within limits for V 292.402 Recovery = 99.20%						
Zn 213.857†	43907.0	0.4933 mg/L	0.00074	0.4933 mg/L	0.00074	0.15%
QC value within limits for Zn 213.857 Recovery = 98.66%						

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/7/2006 4:41:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	838.7	180.4	0.0966	mg/L	0.0966	mg/L	16:43:33
1	Li 670.784†	181.4	29.2	-0.0036	mg/L	-0.0036	mg/L	16:43:33
1	Na 589.592	6315.4	-2808.2	-0.5289	mg/L	-0.5289	mg/L	16:43:33
1	Y 371.029	3818064.3	3818064.3	0.993	mg/L			16:43:47
1	Ag 328.068†	-2167.3	164.4	0.0004	mg/L	0.0004	mg/L	16:43:52
1	Al 237.313†	-203.7	1.3	0.0054	mg/L	0.0054	mg/L	16:44:12
1	As 188.979†	6.9	0.1	0.0002	mg/L	0.0002	mg/L	16:44:12
1	B 182.528†	-1.1	5.8	0.0116	mg/L	0.0116	mg/L	16:44:12
1	Ba 233.527†	-181.9	-13.1	0.0002	mg/L	0.0002	mg/L	16:44:12
1	Be 313.107†	311.4	-16.9	0.0001	mg/L	0.0001	mg/L	16:43:52
1	Ca 315.886†	2373.3	57.1	-0.0133	mg/L	-0.0133	mg/L	16:43:52

1	Cd 228.802†	133.1	-14.8	0.0000 mg/L	0.0000 mg/L	16:44:12
1	Co 228.616†	-194.2	1.9	-0.0011 mg/L	-0.0011 mg/L	16:44:12
1	Cr 267.716†	1895.1	-11.7	-0.0007 mg/L	-0.0007 mg/L	16:43:52
1	Cu 324.752†	2552.5	-299.0	-0.0018 mg/L	-0.0018 mg/L	16:43:52
1	Fe 234.349†	1449.5	-21.3	-0.0024 mg/L	-0.0024 mg/L	16:44:12
1	Fe 238.204†	850.4	-75.9	-0.0045 mg/L	-0.0045 mg/L	16:44:12
1	Mg 279.077†	704.5	62.1	-0.0123 mg/L	-0.0123 mg/L	16:43:52
1	Mn 257.610†	1271.7	-142.8	-0.0029 mg/L	-0.0029 mg/L	16:43:52
1	Mo 202.031†	35.5	18.0	0.0005 mg/L	0.0005 mg/L	16:44:12
1	Ni 231.604†	18.8	-14.2	-0.0034 mg/L	-0.0034 mg/L	16:44:12
1	P 214.914†	57.1	-2.8	0.0186 mg/L	0.0186 mg/L	16:44:12
1	Pb 220.353†	-156.8	1.8	-0.0011 mg/L	-0.0011 mg/L	16:44:12
1	Sb 206.836†	10.0	5.2	0.0015 mg/L	0.0015 mg/L	16:44:12
1	Se 196.026†	-2.0	8.2	0.0057 mg/L	0.0057 mg/L	16:44:12
1	Sn 189.927†	135.1	-79.3	-0.0234 mg/L	-0.0234 mg/L	16:44:12
1	Sr 407.771†	6046.8	-231.1	-0.0003 mg/L	-0.0003 mg/L	16:43:47
1	Ti 337.279†	-2160.0	55.3	-0.0009 mg/L	-0.0009 mg/L	16:43:52
1	Tl 190.801†	21.0	37.2	0.0471 mg/L	0.0471 mg/L	16:44:12
1	V 292.402†	-1579.4	-10.8	0.0004 mg/L	0.0004 mg/L	16:43:52
1	Zn 213.857†	745.1	-18.0	-0.0005 mg/L	-0.0005 mg/L	16:44:12
2	K 766.490†	705.8	59.1	0.0382 mg/L	0.0382 mg/L	16:43:39
2	Li 670.784†	241.3	93.7	-0.0019 mg/L	-0.0019 mg/L	16:43:39
2	Na 589.592	6303.7	-2819.9	-0.5303 mg/L	-0.5303 mg/L	16:43:39
2	Y 371.029	3752876.4	3752876.4	0.976 mg/L		16:44:18
2	Ag 328.068†	-2064.9	231.4	0.0007 mg/L	0.0007 mg/L	16:44:23
2	Al 237.313†	-188.2	13.5	0.0068 mg/L	0.0068 mg/L	16:44:44
2	As 188.979†	4.6	-2.2	-0.0026 mg/L	-0.0026 mg/L	16:44:44
2	B 182.528†	-1.6	5.2	0.0106 mg/L	0.0106 mg/L	16:44:44
2	Ba 233.527†	-177.1	-11.4	0.0003 mg/L	0.0003 mg/L	16:44:44
2	Be 313.107†	348.9	27.0	0.0001 mg/L	0.0001 mg/L	16:44:23
2	Ca 315.886†	2286.3	9.5	-0.0136 mg/L	-0.0136 mg/L	16:44:23
2	Cd 228.802†	138.3	-7.0	0.0001 mg/L	0.0001 mg/L	16:44:44
2	Co 228.616†	-188.3	4.6	-0.0011 mg/L	-0.0011 mg/L	16:44:44
2	Cr 267.716†	1901.9	28.3	-0.0005 mg/L	-0.0005 mg/L	16:44:23
2	Cu 324.752†	2654.2	-150.2	-0.0012 mg/L	-0.0012 mg/L	16:44:23
2	Fe 234.349†	1438.6	-7.1	-0.0022 mg/L	-0.0022 mg/L	16:44:44
2	Fe 238.204†	870.1	-40.9	-0.0042 mg/L	-0.0042 mg/L	16:44:44
2	Mg 279.077†	642.8	11.1	-0.0142 mg/L	-0.0142 mg/L	16:44:23
2	Mn 257.610†	1280.4	-111.7	-0.0029 mg/L	-0.0029 mg/L	16:44:23
2	Mo 202.031†	35.6	18.7	0.0005 mg/L	0.0005 mg/L	16:44:44
2	Ni 231.604†	27.0	-5.4	-0.0031 mg/L	-0.0031 mg/L	16:44:44
2	P 214.914†	58.1	-0.8	0.0199 mg/L	0.0199 mg/L	16:44:44
2	Pb 220.353†	-148.7	7.3	-0.0005 mg/L	-0.0005 mg/L	16:44:44
2	Sb 206.836†	8.8	4.1	0.0010 mg/L	0.0010 mg/L	16:44:44
2	Se 196.026†	-4.3	5.7	0.0031 mg/L	0.0031 mg/L	16:44:44
2	Sn 189.927†	141.6	-70.2	-0.0213 mg/L	-0.0213 mg/L	16:44:44
2	Sr 407.771†	5950.7	-223.8	-0.0003 mg/L	-0.0003 mg/L	16:44:18
2	Ti 337.279†	-2276.1	-101.4	-0.0010 mg/L	-0.0010 mg/L	16:44:23
2	Tl 190.801†	22.2	38.8	0.0483 mg/L	0.0483 mg/L	16:44:44
2	V 292.402†	-1539.8	2.2	0.0004 mg/L	0.0004 mg/L	16:44:23
2	Zn 213.857†	737.1	-13.2	-0.0004 mg/L	-0.0004 mg/L	16:44:44

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3785470.4	0.985	mg/L	0.0120				1.22%
Ag 328.068†	197.9	0.0006	mg/L	0.00016	0.0006	mg/L	0.00016	28.20%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	7.4	0.0061	mg/L	0.00101	0.0061	mg/L	0.00101	16.57%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	-1.0	-0.0012	mg/L	0.00197	-0.0012	mg/L	0.00197	167.77%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	5.5	0.0111	mg/L	0.00076	0.0111	mg/L	0.00076	6.84%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	-12.2	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	4.01%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	5.0	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	4.54%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	33.3	-0.0134	mg/L	0.00020	-0.0134	mg/L	0.00020	1.50%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	-10.9	0.0000	mg/L	0.00013	0.0000	mg/L	0.00013	274.83%

QC value within limits for Cd 228.802 Recovery = Not calculated
Co 228.616† 3.2 -0.0011 mg/L 0.00004 -0.0011 mg/L 0.00004 4.06%
QC value within limits for Co 228.616 Recovery = Not calculated
Cr 267.716† 8.3 -0.0006 mg/L 0.00016 -0.0006 mg/L 0.00016 26.16%
QC value within limits for Cr 267.716 Recovery = Not calculated
Cu 324.752† -224.6 -0.0015 mg/L 0.00041 -0.0015 mg/L 0.00041 27.26%
QC value within limits for Cu 324.752 Recovery = Not calculated
Fe 234.349† -14.2 -0.0023 mg/L 0.00018 -0.0023 mg/L 0.00018 7.68%
QC value within limits for Fe 234.349 Recovery = Not calculated
Fe 238.204† -58.4 -0.0043 mg/L 0.00020 -0.0043 mg/L 0.00020 4.64%
QC value within limits for Fe 238.204 Recovery = Not calculated
K 766.490† 119.7 0.0674 mg/L 0.04132 0.0674 mg/L 0.04132 61.30%
QC value within limits for K 766.490 Recovery = Not calculated
Li 670.784† 61.4 -0.0027 mg/L 0.00118 -0.0027 mg/L 0.00118 43.44%
QC value within limits for Li 670.784 Recovery = Not calculated
Mg 279.077† 36.6 -0.0132 mg/L 0.00138 -0.0132 mg/L 0.00138 10.39%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated
Mn 257.610† -127.2 -0.0029 mg/L 0.00002 -0.0029 mg/L 0.00002 0.80%
QC value within limits for Mn 257.610 Recovery = Not calculated
Mo 202.031† 18.4 0.0005 mg/L 0.00003 0.0005 mg/L 0.00003 6.28%
QC value within limits for Mo 202.031 Recovery = Not calculated
Na 589.592 -2814.0 -0.5296 mg/L 0.00100 -0.5296 mg/L 0.00100 0.19%
QC value within limits for Na 589.592 Recovery = Not calculated
Ni 231.604† -9.8 -0.0032 mg/L 0.00018 -0.0032 mg/L 0.00018 5.41%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated
P 214.914† -1.8 0.0192 mg/L 0.00092 0.0192 mg/L 0.00092 4.80%
QC value within limits for P 214.914 Recovery = Not calculated
Pb 220.353† 4.6 -0.0008 mg/L 0.00041 -0.0008 mg/L 0.00041 49.15%
QC value within limits for Pb 220.353 Recovery = Not calculated
Sb 206.836† 4.7 0.0012 mg/L 0.00034 0.0012 mg/L 0.00034 27.39%
QC value within limits for Sb 206.836 Recovery = Not calculated
Se 196.026† 6.9 0.0044 mg/L 0.00186 0.0044 mg/L 0.00186 41.93%
QC value within limits for Se 196.026 Recovery = Not calculated
Sn 189.927† -74.7 -0.0224 mg/L 0.00151 -0.0224 mg/L 0.00151 6.75%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated
Sr 407.771† -227.4 -0.0003 mg/L 0.00000 -0.0003 mg/L 0.00000 0.06%
QC value within limits for Sr 407.771 Recovery = Not calculated
Ti 337.279† -23.0 -0.0009 mg/L 0.00012 -0.0009 mg/L 0.00012 13.16%
QC value within limits for Ti 337.279 Recovery = Not calculated
Tl 190.801† 38.0 0.0477 mg/L 0.00091 0.0477 mg/L 0.00091 1.90%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated
V 292.402† -4.3 0.0004 mg/L 0.00004 0.0004 mg/L 0.00004 9.33%
QC value within limits for V 292.402 Recovery = Not calculated
Zn 213.857† -15.6 -0.0005 mg/L 0.00004 -0.0005 mg/L 0.00004 7.91%
QC value within limits for Zn 213.857 Recovery = Not calculated
QC Failed. Continue with analysis.

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Sequence No.: 8 **Autosampler Location: 6**
Sample ID: CRI1 **Date Collected: 6/7/2006 4:46:21 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CRI1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	5846.9	5324.1	2.573	mg/L	2.573	mg/L	16:47:58
1	Li 670.784†	2118.0	2015.7	0.0478	mg/L	0.0478	mg/L	16:47:58
1	Na 589.592	27242.7	18119.1	1.990	mg/L	1.990	mg/L	16:47:58
1	Y 371.029	3753410.5	3753410.5	0.976	mg/L			16:48:12
1	Ag 328.068†	5222.3	7694.9	0.0257	mg/L	0.0257	mg/L	16:48:17
1	Al 237.313†	1901.5	2153.7	0.2548	mg/L	0.2548	mg/L	16:48:17
1	As 188.979†	46.1	40.3	0.0499	mg/L	0.0499	mg/L	16:48:37
1	B 182.528†	22.2	29.6	0.0582	mg/L	0.0582	mg/L	16:48:37
1	Ba 233.527†	5840.5	6151.5	0.0509	mg/L	0.0509	mg/L	16:48:17
1	Be 313.107†	24364.9	24622.7	0.0052	mg/L	0.0052	mg/L	16:48:17
1	Ca 315.886†	87912.9	87703.0	0.5114	mg/L	0.5114	mg/L	16:48:17
1	Cd 228.802†	1305.2	1188.0	0.0254	mg/L	0.0254	mg/L	16:48:37
1	Co 228.616†	1971.5	2216.6	0.0505	mg/L	0.0505	mg/L	16:48:37
1	Cr 267.716†	10543.6	8878.4	0.0506	mg/L	0.0506	mg/L	16:48:17

1	Cu 324.752†	15401.0	12903.9	0.0499 mg/L	0.0499 mg/L	16:48:17
1	Fe 234.349†	15637.5	14534.4	0.2559 mg/L	0.2559 mg/L	16:48:17
1	Fe 238.204†	32006.1	31846.7	0.2542 mg/L	0.2542 mg/L	16:48:17
1	Mg 279.077†	13870.1	13557.7	0.5044 mg/L	0.5044 mg/L	16:48:17
1	Mn 257.610†	49389.0	49158.3	0.0499 mg/L	0.0499 mg/L	16:48:17
1	Mo 202.031†	829.5	831.8	0.0510 mg/L	0.0510 mg/L	16:48:37
1	Ni 231.604†	1853.1	1864.7	0.0494 mg/L	0.0494 mg/L	16:48:17
1	P 214.914†	804.2	763.3	0.5161 mg/L	0.5161 mg/L	16:48:37
1	Pb 220.353†	346.3	514.3	0.0522 mg/L	0.0522 mg/L	16:48:37
1	Sb 206.836†	122.9	120.9	0.0519 mg/L	0.0519 mg/L	16:48:37
1	Se 196.026†	84.4	96.6	0.1012 mg/L	0.1012 mg/L	16:48:37
1	Sn 189.927†	345.4	138.5	0.0277 mg/L	0.0277 mg/L	16:48:37
1	Sr 407.771†	132291.4	129166.4	0.0049 mg/L	0.0049 mg/L	16:48:12
1	Ti 337.279†	42135.5	45382.9	0.0500 mg/L	0.0500 mg/L	16:48:17
1	Tl 190.801†	58.5	76.0	0.0774 mg/L	0.0774 mg/L	16:48:37
1	V 292.402†	11290.7	13142.6	0.0516 mg/L	0.0516 mg/L	16:48:17
1	Zn 213.857†	5255.0	4613.6	0.0516 mg/L	0.0516 mg/L	16:48:37
2	K 766.490†	5697.4	5158.4	2.493 mg/L	2.493 mg/L	16:48:04
2	Li 670.784†	2120.0	2013.0	0.0478 mg/L	0.0478 mg/L	16:48:04
2	Na 589.592	27453.7	18330.1	2.015 mg/L	2.015 mg/L	16:48:04
2	Y 371.029	3761582.4	3761582.4	0.979 mg/L		16:48:43
2	Ag 328.068†	5157.7	7617.2	0.0254 mg/L	0.0254 mg/L	16:48:49
2	Al 237.313†	1892.1	2139.9	0.2532 mg/L	0.2532 mg/L	16:48:49
2	As 188.979†	45.7	39.8	0.0492 mg/L	0.0492 mg/L	16:49:09
2	B 182.528†	22.5	29.9	0.0588 mg/L	0.0588 mg/L	16:49:09
2	Ba 233.527†	5832.3	6130.1	0.0508 mg/L	0.0508 mg/L	16:48:49
2	Be 313.107†	23993.3	24188.8	0.0051 mg/L	0.0051 mg/L	16:48:49
2	Ca 315.886†	86952.4	86525.8	0.5043 mg/L	0.5043 mg/L	16:48:49
2	Cd 228.802†	1299.5	1179.2	0.0253 mg/L	0.0253 mg/L	16:49:09
2	Co 228.616†	1957.7	2198.1	0.0501 mg/L	0.0501 mg/L	16:49:09
2	Cr 267.716†	10433.3	8742.2	0.0498 mg/L	0.0498 mg/L	16:48:49
2	Cu 324.752†	15255.6	12721.1	0.0492 mg/L	0.0492 mg/L	16:48:49
2	Fe 234.349†	15359.6	14215.6	0.2502 mg/L	0.2502 mg/L	16:48:49
2	Fe 238.204†	31666.6	31428.6	0.2508 mg/L	0.2508 mg/L	16:48:49
2	Mg 279.077†	13759.5	13413.9	0.4989 mg/L	0.4989 mg/L	16:48:49
2	Mn 257.610†	48941.3	48590.9	0.0493 mg/L	0.0493 mg/L	16:48:49
2	Mo 202.031†	809.7	809.6	0.0496 mg/L	0.0496 mg/L	16:49:09
2	Ni 231.604†	1801.9	1808.3	0.0478 mg/L	0.0478 mg/L	16:48:49
2	P 214.914†	790.0	747.1	0.5055 mg/L	0.5055 mg/L	16:49:09
2	Pb 220.353†	323.4	490.1	0.0497 mg/L	0.0497 mg/L	16:49:09
2	Sb 206.836†	125.1	122.9	0.0528 mg/L	0.0528 mg/L	16:49:09
2	Se 196.026†	84.8	96.9	0.1014 mg/L	0.1014 mg/L	16:49:09
2	Sn 189.927†	355.8	148.3	0.0300 mg/L	0.0300 mg/L	16:49:09
2	Sr 407.771†	132685.7	129274.9	0.0049 mg/L	0.0049 mg/L	16:48:43
2	Ti 337.279†	41791.6	44937.7	0.0495 mg/L	0.0495 mg/L	16:48:49
2	Tl 190.801†	61.3	78.7	0.0795 mg/L	0.0795 mg/L	16:49:09
2	V 292.402†	11093.9	12916.4	0.0507 mg/L	0.0507 mg/L	16:48:49
2	Zn 213.857†	5189.8	4535.3	0.0507 mg/L	0.0507 mg/L	16:49:09

Mean Data: CRI1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3757496.4	0.977	mg/L	0.0015				0.15%
Ag 328.068†	7656.0	0.0256	mg/L	0.00018	0.0256	mg/L	0.00018	0.72%
QC value within limits for Ag 328.068 Recovery = 102.23%								
Al 237.313†	2146.8	0.2540	mg/L	0.00112	0.2540	mg/L	0.00112	0.44%
QC value within limits for Al 237.313 Recovery = 101.59%								
As 188.979†	40.1	0.0495	mg/L	0.00047	0.0495	mg/L	0.00047	0.95%
QC value within limits for As 188.979 Recovery = 99.06%								
B 182.528†	29.7	0.0585	mg/L	0.00040	0.0585	mg/L	0.00040	0.68%
QC value within limits for B 182.528 Recovery = 117.00%								
Ba 233.527†	6140.8	0.0509	mg/L	0.00012	0.0509	mg/L	0.00012	0.25%
QC value within limits for Ba 233.527 Recovery = 101.72%								
Be 313.107†	24405.8	0.0051	mg/L	0.00006	0.0051	mg/L	0.00006	1.23%
QC value within limits for Be 313.107 Recovery = 102.58%								
Ca 315.886†	87114.4	0.5078	mg/L	0.00498	0.5078	mg/L	0.00498	0.98%
QC value within limits for Ca 315.886 Recovery = 101.57%								
Cd 228.802†	1183.6	0.0254	mg/L	0.00013	0.0254	mg/L	0.00013	0.52%
QC value within limits for Cd 228.802 Recovery = 101.43%								
Co 228.616†	2207.3	0.0503	mg/L	0.00030	0.0503	mg/L	0.00030	0.61%
QC value within limits for Co 228.616 Recovery = 100.56%								

Cr 267.716†	8810.3	0.0502 mg/L	0.00056	0.0502 mg/L	0.00056	1.11%
QC value within limits for Cr 267.716 Recovery = 100.35%						
Cu 324.752†	12812.5	0.0496 mg/L	0.00051	0.0496 mg/L	0.00051	1.02%
QC value within limits for Cu 324.752 Recovery = 99.18%						
Fe 234.349†	14375.0	0.2531 mg/L	0.00400	0.2531 mg/L	0.00400	1.58%
QC value within limits for Fe 234.349 Recovery = 101.23%						
Fe 238.204†	31637.6	0.2525 mg/L	0.00240	0.2525 mg/L	0.00240	0.95%
QC value within limits for Fe 238.204 Recovery = 101.00%						
K 766.490†	5241.3	2.533 mg/L	0.0564	2.533 mg/L	0.0564	2.23%
QC value within limits for K 766.490 Recovery = 101.31%						
Li 670.784†	2014.4	0.0478 mg/L	0.00005	0.0478 mg/L	0.00005	0.10%
QC value within limits for Li 670.784 Recovery = 95.60%						
Mg 279.077†	13485.8	0.5017 mg/L	0.00389	0.5017 mg/L	0.00389	0.78%
QC value within limits for Mg 279.077 Recovery = 100.34%						
Mn 257.610†	48874.6	0.0496 mg/L	0.00043	0.0496 mg/L	0.00043	0.87%
QC value within limits for Mn 257.610 Recovery = 99.14%						
Mo 202.031†	820.7	0.0503 mg/L	0.00097	0.0503 mg/L	0.00097	1.93%
QC value within limits for Mo 202.031 Recovery = 100.56%						
Na 589.592	18224.6	2.003 mg/L	0.0180	2.003 mg/L	0.0180	0.90%
QC value within limits for Na 589.592 Recovery = 80.11%						
Ni 231.604†	1836.5	0.0486 mg/L	0.00112	0.0486 mg/L	0.00112	2.30%
QC value within limits for Ni 231.604 Recovery = 97.26%						
P 214.914†	755.2	0.5108 mg/L	0.00746	0.5108 mg/L	0.00746	1.46%
QC value within limits for P 214.914 Recovery = 102.16%						
Pb 220.353†	502.2	0.0509 mg/L	0.00178	0.0509 mg/L	0.00178	3.49%
QC value within limits for Pb 220.353 Recovery = 101.87%						
Sb 206.836†	121.9	0.0523 mg/L	0.00064	0.0523 mg/L	0.00064	1.22%
QC value within limits for Sb 206.836 Recovery = 104.61%						
Se 196.026†	96.7	0.1013 mg/L	0.00017	0.1013 mg/L	0.00017	0.17%
QC value within limits for Se 196.026 Recovery = 101.28%						
Sn 189.927†	143.4	0.0289 mg/L	0.00163	0.0289 mg/L	0.00163	5.64%
QC value less than the lower limit for Sn 189.927 Recovery = 57.75%						
Sr 407.771†	129220.6	0.0049 mg/L	0.00000	0.0049 mg/L	0.00000	0.06%
QC value within limits for Sr 407.771 Recovery = 98.25%						
Ti 337.279†	45160.3	0.0497 mg/L	0.00035	0.0497 mg/L	0.00035	0.71%
QC value within limits for Ti 337.279 Recovery = 99.45%						
Tl 190.801†	77.3	0.0784 mg/L	0.00146	0.0784 mg/L	0.00146	1.87%
QC value greater than the upper limit for Tl 190.801 Recovery = 156.85%						
V 292.402†	13029.5	0.0512 mg/L	0.00063	0.0512 mg/L	0.00063	1.23%
QC value within limits for V 292.402 Recovery = 102.35%						
Zn 213.857†	4574.5	0.0511 mg/L	0.00062	0.0511 mg/L	0.00062	1.21%
QC value within limits for Zn 213.857 Recovery = 102.26%						

QC Failed. Continue with analysis.

Sequence No.: 9
Sample ID: CRI2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 6/7/2006 4:50:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	2721.7	2125.5	1.033	mg/L	1.033	mg/L	16:52:24
1	Li 670.784†	980.4	851.4	0.0177	mg/L	0.0177	mg/L	16:52:24
1	Na 589.592	14562.7	5439.1	0.4637	mg/L	0.4637	mg/L	16:52:24
1	Y 371.029	3750776.0	3750776.0	0.976	mg/L			16:52:38
1	Ag 328.068†	601.5	2962.9	0.0098	mg/L	0.0098	mg/L	16:52:43
1	Al 237.313†	666.5	889.4	0.1083	mg/L	0.1083	mg/L	16:53:03
1	As 188.979†	22.5	16.2	0.0200	mg/L	0.0200	mg/L	16:53:03
1	B 182.528†	5.3	12.2	0.0243	mg/L	0.0243	mg/L	16:53:03
1	Ba 233.527†	2218.8	2444.0	0.0205	mg/L	0.0205	mg/L	16:53:03
1	Be 313.107†	9679.4	9589.6	0.0021	mg/L	0.0021	mg/L	16:52:43
1	Ca 315.886†	35189.2	33731.8	0.1883	mg/L	0.1883	mg/L	16:52:43
1	Cd 228.802†	592.9	458.9	0.0100	mg/L	0.0100	mg/L	16:53:03
1	Co 228.616†	664.5	878.5	0.0193	mg/L	0.0193	mg/L	16:53:03
1	Cr 267.716†	5251.4	3462.2	0.0193	mg/L	0.0193	mg/L	16:52:43
1	Cu 324.752†	7458.3	4774.9	0.0181	mg/L	0.0181	mg/L	16:52:43
1	Fe 234.349†	6955.1	5647.3	0.0982	mg/L	0.0982	mg/L	16:52:43
1	Fe 238.204†	12898.6	12287.2	0.0957	mg/L	0.0957	mg/L	16:52:43

1	Mg 279.077†	5880.9	5379.8	0.1913 mg/L	0.1913 mg/L	16:52:43
1	Mn 257.610†	19898.2	18969.8	0.0175 mg/L	0.0175 mg/L	16:52:43
1	Mo 202.031†	343.5	334.3	0.0201 mg/L	0.0201 mg/L	16:53:03
1	Ni 231.604†	752.4	738.0	0.0178 mg/L	0.0178 mg/L	16:53:03
1	P 214.914†	353.7	302.1	0.2166 mg/L	0.2166 mg/L	16:53:03
1	Pb 220.353†	25.8	186.0	0.0181 mg/L	0.0181 mg/L	16:53:03
1	Sb 206.836†	45.7	41.9	0.0174 mg/L	0.0174 mg/L	16:53:03
1	Se 196.026†	25.5	36.3	0.0361 mg/L	0.0361 mg/L	16:53:03
1	Sn 189.927†	258.0	49.1	0.0067 mg/L	0.0067 mg/L	16:53:03
1	Sr 407.771†	56022.7	51096.5	0.0017 mg/L	0.0017 mg/L	16:52:38
1	Ti 337.279†	15239.6	17848.6	0.0191 mg/L	0.0191 mg/L	16:52:43
1	Tl 190.801†	33.8	50.6	0.0576 mg/L	0.0576 mg/L	16:53:03
1	V 292.402†	3408.5	5072.7	0.0202 mg/L	0.0202 mg/L	16:52:43
1	Zn 213.857†	2494.2	1788.0	0.0198 mg/L	0.0198 mg/L	16:53:03
2	K 766.490†	2659.0	2023.4	0.9838 mg/L	0.9838 mg/L	16:52:30
2	Li 670.784†	939.2	795.8	0.0163 mg/L	0.0163 mg/L	16:52:30
2	Na 589.592	14413.5	5289.9	0.4458 mg/L	0.4458 mg/L	16:52:30
2	Y 371.029	3803614.7	3803614.7	0.989 mg/L		16:53:09
2	Ag 328.068†	538.1	2890.3	0.0096 mg/L	0.0096 mg/L	16:53:14
2	Al 237.313†	675.0	888.5	0.1082 mg/L	0.1082 mg/L	16:53:35
2	As 188.979†	20.2	13.5	0.0168 mg/L	0.0168 mg/L	16:53:35
2	B 182.528†	4.6	11.5	0.0228 mg/L	0.0228 mg/L	16:53:35
2	Ba 233.527†	2231.7	2425.4	0.0203 mg/L	0.0203 mg/L	16:53:35
2	Be 313.107†	9669.9	9442.3	0.0021 mg/L	0.0021 mg/L	16:53:14
2	Ca 315.886†	35329.1	33372.2	0.1861 mg/L	0.1861 mg/L	16:53:14
2	Cd 228.802†	604.2	461.9	0.0101 mg/L	0.0101 mg/L	16:53:35
2	Co 228.616†	670.9	875.4	0.0192 mg/L	0.0192 mg/L	16:53:35
2	Cr 267.716†	5372.2	3509.5	0.0196 mg/L	0.0196 mg/L	16:53:14
2	Cu 324.752†	7545.6	4756.9	0.0180 mg/L	0.0180 mg/L	16:53:14
2	Fe 234.349†	6914.2	5506.9	0.0957 mg/L	0.0957 mg/L	16:53:14
2	Fe 238.204†	13010.9	12217.0	0.0951 mg/L	0.0951 mg/L	16:53:14
2	Mg 279.077†	5825.6	5240.2	0.1860 mg/L	0.1860 mg/L	16:53:14
2	Mn 257.610†	20028.6	18818.2	0.0174 mg/L	0.0174 mg/L	16:53:14
2	Mo 202.031†	334.6	320.4	0.0193 mg/L	0.0193 mg/L	16:53:35
2	Ni 231.604†	754.6	729.5	0.0175 mg/L	0.0175 mg/L	16:53:35
2	P 214.914†	363.7	307.2	0.2199 mg/L	0.2199 mg/L	16:53:35
2	Pb 220.353†	43.2	203.3	0.0198 mg/L	0.0198 mg/L	16:53:35
2	Sb 206.836†	55.2	50.9	0.0214 mg/L	0.0214 mg/L	16:53:35
2	Se 196.026†	33.5	44.0	0.0444 mg/L	0.0444 mg/L	16:53:35
2	Sn 189.927†	243.1	30.4	0.0023 mg/L	0.0023 mg/L	16:53:35
2	Sr 407.771†	56960.6	51246.8	0.0017 mg/L	0.0017 mg/L	16:53:09
2	Ti 337.279†	15305.3	17697.9	0.0189 mg/L	0.0189 mg/L	16:53:14
2	Tl 190.801†	33.9	50.3	0.0573 mg/L	0.0573 mg/L	16:53:35
2	V 292.402†	3362.7	4977.9	0.0198 mg/L	0.0198 mg/L	16:53:14
2	Zn 213.857†	2491.9	1750.1	0.0194 mg/L	0.0194 mg/L	16:53:35

Mean Data: CRI2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3777195.3	0.983	mg/L	0.0097				0.99%
Ag 328.068†	2926.6	0.0097	mg/L	0.00017	0.0097	mg/L	0.00017	1.77%
QC value within limits for Ag 328.068 Recovery = 97.08%								
Al 237.313†	888.9	0.1083	mg/L	0.00006	0.1083	mg/L	0.00006	0.06%
QC value within limits for Al 237.313 Recovery = 108.26%								
As 188.979†	14.8	0.0184	mg/L	0.00229	0.0184	mg/L	0.00229	12.45%
QC value within limits for As 188.979 Recovery = 92.11%								
B 182.528†	11.9	0.0236	mg/L	0.00105	0.0236	mg/L	0.00105	4.45%
QC value within limits for B 182.528 Recovery = 117.91%								
Ba 233.527†	2434.7	0.0204	mg/L	0.00011	0.0204	mg/L	0.00011	0.53%
QC value within limits for Ba 233.527 Recovery = 101.88%								
Be 313.107†	9516.0	0.0021	mg/L	0.00002	0.0021	mg/L	0.00002	1.02%
QC value within limits for Be 313.107 Recovery = 104.37%								
Ca 315.886†	33552.0	0.1872	mg/L	0.00152	0.1872	mg/L	0.00152	0.81%
QC value within limits for Ca 315.886 Recovery = 93.61%								
Cd 228.802†	460.4	0.0100	mg/L	0.00006	0.0100	mg/L	0.00006	0.57%
QC value within limits for Cd 228.802 Recovery = 100.36%								
Co 228.616†	876.9	0.0193	mg/L	0.00005	0.0193	mg/L	0.00005	0.26%
QC value within limits for Co 228.616 Recovery = 96.33%								
Cr 267.716†	3485.9	0.0194	mg/L	0.00019	0.0194	mg/L	0.00019	1.00%
QC value within limits for Cr 267.716 Recovery = 97.23%								
Cu 324.752†	4765.9	0.0181	mg/L	0.00005	0.0181	mg/L	0.00005	0.28%

	QC value within limits for Cu 324.752 Recovery = 90.25%					
Fe 234.349†	5577.1	0.0969 mg/L	0.00176	0.0969 mg/L	0.00176	1.82%
	QC value within limits for Fe 234.349 Recovery = 96.93%					
Fe 238.204†	12252.1	0.0954 mg/L	0.00040	0.0954 mg/L	0.00040	0.42%
	QC value within limits for Fe 238.204 Recovery = 95.42%					
K 766.490†	2074.4	1.008 mg/L	0.0348	1.008 mg/L	0.0348	3.45%
	QC value within limits for K 766.490 Recovery = 100.84%					
Li 670.784†	823.6	0.0170 mg/L	0.00102	0.0170 mg/L	0.00102	5.98%
	QC value within limits for Li 670.784 Recovery = 84.98%					
Mg 279.077†	5310.0	0.1887 mg/L	0.00378	0.1887 mg/L	0.00378	2.00%
	QC value within limits for Mg 279.077 Recovery = 94.33%					
Mn 257.610†	18894.0	0.0174 mg/L	0.00011	0.0174 mg/L	0.00011	0.66%
	QC value within limits for Mn 257.610 Recovery = 87.24%					
Mo 202.031†	327.4	0.0197 mg/L	0.00061	0.0197 mg/L	0.00061	3.09%
	QC value within limits for Mo 202.031 Recovery = 98.43%					
Na 589.592	5364.5	0.4548 mg/L	0.01270	0.4548 mg/L	0.01270	2.79%
	QC value less than the lower limit for Na 589.592 Recovery = 45.48%					
Ni 231.604†	733.8	0.0177 mg/L	0.00017	0.0177 mg/L	0.00017	0.96%
	QC value within limits for Ni 231.604 Recovery = 88.26%					
P 214.914†	304.7	0.2182 mg/L	0.00233	0.2182 mg/L	0.00233	1.07%
	QC value within limits for P 214.914 Recovery = 109.12%					
Pb 220.353†	194.7	0.0189 mg/L	0.00127	0.0189 mg/L	0.00127	6.69%
	QC value within limits for Pb 220.353 Recovery = 94.75%					
Sb 206.836†	46.4	0.0194 mg/L	0.00283	0.0194 mg/L	0.00283	14.62%
	QC value within limits for Sb 206.836 Recovery = 96.77%					
Se 196.026†	40.2	0.0403 mg/L	0.00587	0.0403 mg/L	0.00587	14.59%
	QC value within limits for Se 196.026 Recovery = 100.63%					
Sn 189.927†	39.8	0.0045 mg/L	0.00311	0.0045 mg/L	0.00311	68.74%
	QC value less than the lower limit for Sn 189.927 Recovery = 22.62%					
Sr 407.771†	51171.7	0.0017 mg/L	0.00000	0.0017 mg/L	0.00000	0.25%
	QC value within limits for Sr 407.771 Recovery = 87.06%					
Ti 337.279†	17773.3	0.0190 mg/L	0.00012	0.0190 mg/L	0.00012	0.63%
	QC value within limits for Ti 337.279 Recovery = 95.06%					
Tl 190.801†	50.5	0.0575 mg/L	0.00020	0.0575 mg/L	0.00020	0.34%
	QC value greater than the upper limit for Tl 190.801 Recovery = 287.31%					
V 292.402†	5025.3	0.0200 mg/L	0.00027	0.0200 mg/L	0.00027	1.34%
	QC value within limits for V 292.402 Recovery = 99.91%					
Zn 213.857†	1769.1	0.0196 mg/L	0.00030	0.0196 mg/L	0.00030	1.54%
	QC value within limits for Zn 213.857 Recovery = 97.93%					

QC Failed. Continue with analysis.

Sequence No.: 10 **Autosampler Location: 8**
Sample ID: CRI3 **Date Collected: 6/7/2006 4:55:15 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CRI3

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1712.8	1063.9	0.5219	mg/L	0.5219	mg/L	16:56:54
1	Li 670.784†	600.5	452.3	0.0074	mg/L	0.0074	mg/L	16:56:54
1	Na 589.592	10781.1	1657.6	0.0086	mg/L	0.0086	mg/L	16:56:54
1	Y 371.029	3810545.0	3810545.0	0.991	mg/L			16:57:08
1	Ag 328.068†	-846.9	1492.2	0.0049	mg/L	0.0049	mg/L	16:57:13
1	Al 237.313†	309.3	518.3	0.0653	mg/L	0.0653	mg/L	16:57:33
1	As 188.979†	13.7	6.9	0.0086	mg/L	0.0086	mg/L	16:57:33
1	B 182.528†	-0.3	6.5	0.0131	mg/L	0.0131	mg/L	16:57:33
1	Ba 233.527†	1047.5	1226.7	0.0104	mg/L	0.0104	mg/L	16:57:33
1	Be 313.107†	5142.0	4856.8	0.0011	mg/L	0.0011	mg/L	16:57:13
1	Ca 315.886†	19321.7	17159.2	0.0891	mg/L	0.0891	mg/L	16:57:13
1	Cd 228.802†	369.8	224.4	0.0050	mg/L	0.0050	mg/L	16:57:33
1	Co 228.616†	232.7	432.2	0.0089	mg/L	0.0089	mg/L	16:57:33
1	Cr 267.716†	3649.3	1761.7	0.0095	mg/L	0.0095	mg/L	16:57:13
1	Cu 324.752†	5152.3	2328.7	0.0085	mg/L	0.0085	mg/L	16:57:13
1	Fe 234.349†	4307.7	2864.9	0.0488	mg/L	0.0488	mg/L	16:57:13
1	Fe 238.204†	7172.1	6303.1	0.0472	mg/L	0.0472	mg/L	16:57:13
1	Mg 279.077†	3299.4	2681.1	0.0880	mg/L	0.0880	mg/L	16:57:13
1	Mn 257.610†	10850.5	9522.7	0.0074	mg/L	0.0074	mg/L	16:57:13
1	Mo 202.031†	192.2	176.2	0.0103	mg/L	0.0103	mg/L	16:57:33

1	Ni 231.604†	391.2	361.5	0.0072 mg/L	0.0072 mg/L	16:57:33
1	P 214.914†	216.8	158.4	0.1233 mg/L	0.1233 mg/L	16:57:33
1	Pb 220.353†	-73.4	85.6	0.0076 mg/L	0.0076 mg/L	16:57:33
1	Sb 206.836†	35.6	31.0	0.0127 mg/L	0.0127 mg/L	16:57:33
1	Se 196.026†	7.6	17.8	0.0162 mg/L	0.0162 mg/L	16:57:33
1	Sn 189.927†	203.5	-9.9	-0.0071 mg/L	-0.0071 mg/L	16:57:33
1	Sr 407.771†	31811.0	25771.6	0.0007 mg/L	0.0007 mg/L	16:57:08
1	Ti 337.279†	6545.7	8833.3	0.0090 mg/L	0.0090 mg/L	16:57:13
1	Tl 190.801†	22.3	38.5	0.0481 mg/L	0.0481 mg/L	16:57:33
1	V 292.402†	1067.9	2656.7	0.0107 mg/L	0.0107 mg/L	16:57:13
1	Zn 213.857†	1666.7	913.1	0.0100 mg/L	0.0100 mg/L	16:57:33
2	K 766.490†	1719.6	1058.7	0.5194 mg/L	0.5194 mg/L	16:57:00
2	Li 670.784†	607.1	454.7	0.0075 mg/L	0.0075 mg/L	16:57:00
2	Na 589.592	10791.9	1668.3	0.0099 mg/L	0.0099 mg/L	16:57:00
2	Y 371.029	3837468.1	3837468.1	0.998 mg/L		16:57:39
2	Ag 328.068†	-801.8	1543.3	0.0051 mg/L	0.0051 mg/L	16:57:44
2	Al 237.313†	301.8	508.7	0.0642 mg/L	0.0642 mg/L	16:58:05
2	As 188.979†	14.6	7.7	0.0096 mg/L	0.0096 mg/L	16:58:05
2	B 182.528†	1.8	8.7	0.0174 mg/L	0.0174 mg/L	16:58:05
2	Ba 233.527†	1050.5	1222.3	0.0104 mg/L	0.0104 mg/L	16:58:05
2	Be 313.107†	5024.4	4702.6	0.0011 mg/L	0.0011 mg/L	16:57:44
2	Ca 315.886†	19321.8	17022.5	0.0883 mg/L	0.0883 mg/L	16:57:44
2	Cd 228.802†	376.2	228.1	0.0051 mg/L	0.0051 mg/L	16:58:05
2	Co 228.616†	224.8	422.7	0.0087 mg/L	0.0087 mg/L	16:58:05
2	Cr 267.716†	3687.7	1774.3	0.0096 mg/L	0.0096 mg/L	16:57:44
2	Cu 324.752†	5199.7	2339.7	0.0085 mg/L	0.0085 mg/L	16:57:44
2	Fe 234.349†	4389.6	2916.4	0.0497 mg/L	0.0497 mg/L	16:57:44
2	Fe 238.204†	7179.6	6259.8	0.0469 mg/L	0.0469 mg/L	16:57:44
2	Mg 279.077†	3410.4	2769.0	0.0914 mg/L	0.0914 mg/L	16:57:44
2	Mn 257.610†	11007.5	9603.2	0.0075 mg/L	0.0075 mg/L	16:57:44
2	Mo 202.031†	176.2	158.7	0.0092 mg/L	0.0092 mg/L	16:58:05
2	Ni 231.604†	405.9	373.5	0.0075 mg/L	0.0075 mg/L	16:58:05
2	P 214.914†	213.7	153.8	0.1203 mg/L	0.1203 mg/L	16:58:05
2	Pb 220.353†	-57.4	102.1	0.0093 mg/L	0.0093 mg/L	16:58:05
2	Sb 206.836†	34.4	29.5	0.0121 mg/L	0.0121 mg/L	16:58:05
2	Se 196.026†	6.4	16.6	0.0148 mg/L	0.0148 mg/L	16:58:05
2	Sn 189.927†	215.9	1.1	-0.0046 mg/L	-0.0046 mg/L	16:58:05
2	Sr 407.771†	32091.2	25827.0	0.0007 mg/L	0.0007 mg/L	16:57:39
2	Ti 337.279†	6685.5	8926.9	0.0091 mg/L	0.0091 mg/L	16:57:44
2	Tl 190.801†	18.9	34.9	0.0454 mg/L	0.0454 mg/L	16:58:05
2	V 292.402†	1015.2	2596.3	0.0105 mg/L	0.0105 mg/L	16:57:44
2	Zn 213.857†	1679.3	913.9	0.0100 mg/L	0.0100 mg/L	16:58:05

Mean Data: CRI3

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3824006.5	0.995	mg/L	0.0050				0.50%
Ag 328.068†	1517.7	0.0050	mg/L	0.00012	0.0050	mg/L	0.00012	2.42%
QC value within limits for Ag 328.068 Recovery = 99.72%								
Al 237.313†	513.5	0.0648	mg/L	0.00080	0.0648	mg/L	0.00080	1.24%
QC value within limits for Al 237.313 Recovery = 129.52%								
As 188.979†	7.3	0.0091	mg/L	0.00071	0.0091	mg/L	0.00071	7.79%
QC value within limits for As 188.979 Recovery = 91.30%								
B 182.528†	7.6	0.0153	mg/L	0.00301	0.0153	mg/L	0.00301	19.74%
QC value greater than the upper limit for B 182.528 Recovery = 152.53%								
Ba 233.527†	1224.5	0.0104	mg/L	0.00003	0.0104	mg/L	0.00003	0.25%
QC value within limits for Ba 233.527 Recovery = 104.22%								
Be 313.107†	4779.7	0.0011	mg/L	0.00002	0.0011	mg/L	0.00002	2.01%
QC value within limits for Be 313.107 Recovery = 112.01%								
Ca 315.886†	17090.8	0.0887	mg/L	0.00058	0.0887	mg/L	0.00058	0.65%
QC value within limits for Ca 315.886 Recovery = 88.68%								
Cd 228.802†	226.2	0.0051	mg/L	0.00005	0.0051	mg/L	0.00005	1.01%
QC value within limits for Cd 228.802 Recovery = 101.36%								
Co 228.616†	427.4	0.0088	mg/L	0.00016	0.0088	mg/L	0.00016	1.80%
QC value within limits for Co 228.616 Recovery = 87.85%								
Cr 267.716†	1768.0	0.0095	mg/L	0.00005	0.0095	mg/L	0.00005	0.54%
QC value within limits for Cr 267.716 Recovery = 95.31%								
Cu 324.752†	2334.2	0.0085	mg/L	0.00003	0.0085	mg/L	0.00003	0.36%
QC value within limits for Cu 324.752 Recovery = 85.19%								
Fe 234.349†	2890.7	0.0493	mg/L	0.00064	0.0493	mg/L	0.00064	1.31%
QC value within limits for Fe 234.349 Recovery = 98.51%								

Fe 238.204†	6281.4	0.0470 mg/L	0.00025	0.0470 mg/L	0.00025	0.53%
QC value within limits for Fe 238.204 Recovery = 94.09%						
K 766.490†	1061.3	0.5207 mg/L	0.00179	0.5207 mg/L	0.00179	0.34%
QC value within limits for K 766.490 Recovery = 104.13%						
Li 670.784†	453.5	0.0074 mg/L	0.00004	0.0074 mg/L	0.00004	0.59%
QC value within limits for Li 670.784 Recovery = 74.22%						
Mg 279.077†	2725.0	0.0897 mg/L	0.00238	0.0897 mg/L	0.00238	2.65%
QC value within limits for Mg 279.077 Recovery = 89.68%						
Mn 257.610†	9562.9	0.0075 mg/L	0.00006	0.0075 mg/L	0.00006	0.82%
QC value within limits for Mn 257.610 Recovery = 74.50%						
Mo 202.031†	167.4	0.0098 mg/L	0.00076	0.0098 mg/L	0.00076	7.82%
QC value within limits for Mo 202.031 Recovery = 97.70%						
Na 589.592	1663.0	0.0092 mg/L	0.00091	0.0092 mg/L	0.00091	9.90%
QC value less than the lower limit for Na 589.592 Recovery = 1.85%						
Ni 231.604†	367.5	0.0074 mg/L	0.00024	0.0074 mg/L	0.00024	3.23%
QC value within limits for Ni 231.604 Recovery = 73.60%						
P 214.914†	156.1	0.1218 mg/L	0.00212	0.1218 mg/L	0.00212	1.74%
QC value within limits for P 214.914 Recovery = 121.76%						
Pb 220.353†	93.9	0.0085 mg/L	0.00121	0.0085 mg/L	0.00121	14.28%
QC value within limits for Pb 220.353 Recovery = 84.66%						
Sb 206.836†	30.2	0.0124 mg/L	0.00045	0.0124 mg/L	0.00045	3.66%
QC value within limits for Sb 206.836 Recovery = 123.86%						
Se 196.026†	17.2	0.0155 mg/L	0.00093	0.0155 mg/L	0.00093	6.03%
QC value within limits for Se 196.026 Recovery = 77.52%						
Sn 189.927†	-4.4	-0.0059 mg/L	0.00182	-0.0059 mg/L	0.00182	31.15%
QC value less than the lower limit for Sn 189.927 Recovery = -58.56%						
Sr 407.771†	25799.3	0.0007 mg/L	0.00000	0.0007 mg/L	0.00000	0.22%
QC value within limits for Sr 407.771 Recovery = 71.04%						
Ti 337.279†	8880.1	0.0090 mg/L	0.00007	0.0090 mg/L	0.00007	0.82%
QC value within limits for Ti 337.279 Recovery = 90.40%						
Tl 190.801†	36.7	0.0468 mg/L	0.00195	0.0468 mg/L	0.00195	4.17%
QC value greater than the upper limit for Tl 190.801 Recovery = 467.62%						
V 292.402†	2626.5	0.0106 mg/L	0.00018	0.0106 mg/L	0.00018	1.67%
QC value within limits for V 292.402 Recovery = 106.22%						
Zn 213.857†	913.5	0.0100 mg/L	0.00000	0.0100 mg/L	0.00000	0.04%
QC value within limits for Zn 213.857 Recovery = 99.71%						

QC Failed. Continue with analysis.
User canceled analysis.

Analysis Begun

Start Time: 6/7/2006 4:59:05 PM
Logged In Analyst: ICP3
Spectrometer Model: Optima 4300 DV, S/N 077N1032302
Plasma On Time: 6/7/2006 3:11:50 PM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\060706NA.sif
Batch ID: 060706na
Results Data Set: 060706nad
Results Library: Q:\Metals\Results\ICP3\Results\Results.mdb

Sequence No.: 1
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 160
Date Collected: 6/7/2006 4:59:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	898.5	329.2	0.1682	mg/L	0.1682	mg/L	17:00:43
1	Li 670.784†	206.4	74.7	-0.0024	mg/L	-0.0024	mg/L	17:00:43
1	Na 589.592	8848.2	-275.3	-0.2241	mg/L	-0.2241	mg/L	17:00:43
1	Y 371.029	3477628.9	3477628.9	0.905	mg/L			17:01:10
1	Ag 328.068†	-3088.7	-1067.6	0.0001	mg/L	0.0001	mg/L	17:01:15
1	Al 237.313†	2042261.3	2257638.6	262.2	mg/L	262.2	mg/L	17:01:10
1	As 188.979†	6.3	0.1	0.0002	mg/L	0.0002	mg/L	17:01:36
1	B 182.528†	9.2	17.1	0.0337	mg/L	0.0337	mg/L	17:01:36
1	Ba 233.527†	78.3	256.5	0.0025	mg/L	0.0025	mg/L	17:01:36
1	Be 313.107†	-2496.2	-3089.5	0.0001	mg/L	0.0001	mg/L	17:01:15
1	Ca 315.886†	38191750.3	42213269.6	252.5	mg/L	252.5	mg/L	17:01:03
1	Cd 228.802†	100.4	-37.8	0.0001	mg/L	0.0001	mg/L	17:01:36
1	Co 228.616†	-168.7	11.0	-0.0009	mg/L	-0.0009	mg/L	17:01:36
1	Cr 267.716†	954.0	-865.2	0.0000	mg/L	0.0000	mg/L	17:01:15
1	Cu 324.752†	545.6	-2265.8	0.0076	mg/L	0.0076	mg/L	17:01:15
1	Fe 234.349†	4830126.4	5337543.9	94.93	mg/L	94.93	mg/L	17:01:10
1	Fe 238.204†	10063649.2	11123015.0	90.10	mg/L	90.10	mg/L	17:01:03
1	Mg 279.077†	5826029.4	6439207.9	246.3	mg/L	246.3	mg/L	17:01:10
1	Mn 257.610†	6418.8	5671.9	0.0033	mg/L	0.0033	mg/L	17:01:15
1	Mo 202.031†	240.2	247.8	0.0148	mg/L	0.0148	mg/L	17:01:36
1	Ni 231.604†	74.1	48.8	-0.0016	mg/L	-0.0016	mg/L	17:01:36
1	P 214.914†	-75.1	-143.3	-0.0726	mg/L	-0.0726	mg/L	17:01:36
1	Pb 220.353†	-600.1	-503.7	-0.0058	mg/L	-0.0058	mg/L	17:01:36
1	Sb 206.836†	-11.0	-17.1	-0.0084	mg/L	-0.0084	mg/L	17:01:36
1	Se 196.026†	11.5	22.9	0.0216	mg/L	0.0216	mg/L	17:01:36
1	Sn 189.927†	-5.3	-221.1	-0.0529	mg/L	-0.0529	mg/L	17:01:36
1	Sr 407.771†	24534.4	20800.4	0.0005	mg/L	0.0005	mg/L	17:01:15
1	Ti 337.279†	2602.4	5106.7	0.0048	mg/L	0.0048	mg/L	17:01:15
1	Tl 190.801†	70.0	93.3	0.0906	mg/L	0.0906	mg/L	17:01:36
1	V 292.402†	1538.4	3279.8	0.0009	mg/L	0.0009	mg/L	17:01:15
1	Zn 213.857†	2685.6	2200.3	0.0160	mg/L	0.0160	mg/L	17:01:36
2	K 766.490†	885.0	315.2	0.1615	mg/L	0.1615	mg/L	17:00:49
2	Li 670.784†	218.1	87.9	-0.0020	mg/L	-0.0020	mg/L	17:00:49
2	Na 589.592	8963.1	-160.4	-0.2102	mg/L	-0.2102	mg/L	17:00:49
2	Y 371.029	3474695.4	3474695.4	0.904	mg/L			17:01:54
2	Ag 328.068†	-2884.2	-844.3	0.0009	mg/L	0.0009	mg/L	17:01:59
2	Al 237.313†	2037356.2	2254117.9	261.7	mg/L	261.7	mg/L	17:01:54
2	As 188.979†	7.2	1.1	0.0014	mg/L	0.0014	mg/L	17:02:20
2	B 182.528†	8.2	15.9	0.0315	mg/L	0.0315	mg/L	17:02:20
2	Ba 233.527†	121.5	304.5	0.0029	mg/L	0.0029	mg/L	17:02:20
2	Be 313.107†	-2531.1	-3130.5	0.0001	mg/L	0.0001	mg/L	17:01:59
2	Ca 315.886†	38036626.8	42077298.0	251.7	mg/L	251.7	mg/L	17:01:47
2	Cd 228.802†	105.3	-32.2	0.0002	mg/L	0.0002	mg/L	17:02:20
2	Co 228.616†	-145.6	36.3	-0.0003	mg/L	-0.0003	mg/L	17:02:20
2	Cr 267.716†	989.4	-825.2	0.0002	mg/L	0.0002	mg/L	17:01:59
2	Cu 324.752†	492.0	-2324.6	0.0073	mg/L	0.0073	mg/L	17:01:59
2	Fe 234.349†	4815294.4	5325642.8	94.72	mg/L	94.72	mg/L	17:01:54
2	Fe 238.204†	10026807.5	11091648.6	89.85	mg/L	89.85	mg/L	17:01:47

2	Mg 279.077†	5804823.1	6421184.2	245.6 mg/L	245.6 mg/L	17:01:54
2	Mn 257.610†	6389.6	5645.7	0.0033 mg/L	0.0033 mg/L	17:01:59
2	Mo 202.031†	228.0	234.4	0.0139 mg/L	0.0139 mg/L	17:02:20
2	Ni 231.604†	85.5	61.5	-0.0012 mg/L	-0.0012 mg/L	17:02:20
2	P 214.914†	-90.4	-160.3	-0.0837 mg/L	-0.0837 mg/L	17:02:20
2	Pb 220.353†	-613.3	-518.9	-0.0074 mg/L	-0.0074 mg/L	17:02:20
2	Sb 206.836†	-9.5	-15.4	-0.0076 mg/L	-0.0076 mg/L	17:02:20
2	Se 196.026†	4.5	15.1	0.0133 mg/L	0.0133 mg/L	17:02:20
2	Sn 189.927†	-12.9	-229.5	-0.0549 mg/L	-0.0549 mg/L	17:02:20
2	Sr 407.771†	24795.9	21112.5	0.0005 mg/L	0.0005 mg/L	17:01:59
2	Ti 337.279†	2474.2	4967.2	0.0047 mg/L	0.0047 mg/L	17:01:59
2	Tl 190.801†	70.7	94.2	0.0913 mg/L	0.0913 mg/L	17:02:20
2	V 292.402†	1359.5	3083.4	0.0002 mg/L	0.0002 mg/L	17:01:59
2	Zn 213.857†	2683.1	2200.1	0.0160 mg/L	0.0160 mg/L	17:02:20

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3476162.1	0.904	mg/L	0.0005				0.06%
Ag 328.068†	-955.9	0.0005	mg/L	0.00052	0.0005	mg/L	0.00052	103.43%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	2255878.3	262.0	mg/L	0.29	262.0	mg/L	0.29	0.11%
QC value within limits for Al 237.313 Recovery = 104.78%								
As 188.979†	0.6	0.0008	mg/L	0.00082	0.0008	mg/L	0.00082	100.61%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	16.5	0.0326	mg/L	0.00158	0.0326	mg/L	0.00158	4.86%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	280.5	0.0027	mg/L	0.00028	0.0027	mg/L	0.00028	10.50%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-3110.0	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	10.53%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	42145283.8	252.1	mg/L	0.58	252.1	mg/L	0.58	0.23%
QC value within limits for Ca 315.886 Recovery = 100.86%								
Cd 228.802†	-35.0	0.0002	mg/L	0.00008	0.0002	mg/L	0.00008	42.44%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	23.6	-0.0006	mg/L	0.00042	-0.0006	mg/L	0.00042	65.49%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-845.2	0.0001	mg/L	0.00015	0.0001	mg/L	0.00015	123.72%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-2295.2	0.0075	mg/L	0.00019	0.0075	mg/L	0.00019	2.54%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	5331593.4	94.83	mg/L	0.150	94.83	mg/L	0.150	0.16%
QC value within limits for Fe 234.349 Recovery = 94.83%								
Fe 238.204†	11107331.8	89.97	mg/L	0.180	89.97	mg/L	0.180	0.20%
QC value within limits for Fe 238.204 Recovery = 89.97%								
K 766.490†	322.2	0.1648	mg/L	0.00478	0.1648	mg/L	0.00478	2.90%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	81.3	-0.0022	mg/L	0.00024	-0.0022	mg/L	0.00024	10.88%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	6430196.1	245.9	mg/L	0.49	245.9	mg/L	0.49	0.20%
QC value within limits for Mg 279.077 Recovery = 98.38%								
Mn 257.610†	5658.8	0.0033	mg/L	0.00002	0.0033	mg/L	0.00002	0.61%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	241.1	0.0143	mg/L	0.00059	0.0143	mg/L	0.00059	4.09%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-217.9	-0.2171	mg/L	0.00978	-0.2171	mg/L	0.00978	4.50%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	55.2	-0.0014	mg/L	0.00025	-0.0014	mg/L	0.00025	17.84%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 214.914†	-151.8	-0.0782	mg/L	0.00783	-0.0782	mg/L	0.00783	10.01%
QC value within limits for P 214.914 Recovery = Not calculated								
Pb 220.353†	-511.3	-0.0066	mg/L	0.00116	-0.0066	mg/L	0.00116	17.60%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-16.3	-0.0080	mg/L	0.00053	-0.0080	mg/L	0.00053	6.65%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	19.0	0.0174	mg/L	0.00592	0.0174	mg/L	0.00592	33.93%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-225.3	-0.0539	mg/L	0.00141	-0.0539	mg/L	0.00141	2.62%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated								
Sr 407.771†	20956.5	0.0005	mg/L	0.00001	0.0005	mg/L	0.00001	1.75%
QC value within limits for Sr 407.771 Recovery = Not calculated								

Ti 337.279†	5036.9	0.0047 mg/L	0.00011	0.0047 mg/L	0.00011	2.34%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	93.8	0.0909 mg/L	0.00048	0.0909 mg/L	0.00048	0.53%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	3181.6	0.0005 mg/L	0.00052	0.0005 mg/L	0.00052	99.06%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	2200.2	0.0160 mg/L	0.00001	0.0160 mg/L	0.00001	0.06%
QC value within limits for Zn 213.857 Recovery = Not calculated						

QC Failed. Continue with analysis.

Sequence No.: 2
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 159
Date Collected: 6/7/2006 5:03:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	927.2	362.5	0.1842	mg/L	0.1842	mg/L	17:05:33
1	Li 670.784†	180.4	46.2	-0.0031	mg/L	-0.0031	mg/L	17:05:33
1	Na 589.592	9203.1	79.5	-0.1814	mg/L	-0.1814	mg/L	17:05:33
1	Y 371.029	3472545.3	3472545.3	0.903	mg/L			17:06:01
1	Ag 328.068†	140422.5	157791.0	0.5316	mg/L	0.5316	mg/L	17:06:06
1	Al 237.313†	2025898.2	2242829.8	260.4	mg/L	260.4	mg/L	17:06:01
1	As 188.979†	9.5	3.7	0.0043	mg/L	0.0043	mg/L	17:06:27
1	B 182.528†	1.7	8.8	0.0175	mg/L	0.0175	mg/L	17:06:27
1	Ba 233.527†	27486.6	30597.0	0.2519	mg/L	0.2519	mg/L	17:06:27
1	Be 313.107†	1124681.5	1244666.6	0.2573	mg/L	0.2573	mg/L	17:06:01
1	Ca 315.886†	37757640.9	41794521.4	250.0	mg/L	250.0	mg/L	17:05:53
1	Cd 228.802†	20469.4	22510.4	0.4795	mg/L	0.4795	mg/L	17:06:27
1	Co 228.616†	8696.1	9823.9	0.2283	mg/L	0.2283	mg/L	17:06:27
1	Cr 267.716†	38978.6	41228.7	0.2429	mg/L	0.2429	mg/L	17:06:06
1	Cu 324.752†	57217.4	60469.5	0.2530	mg/L	0.2530	mg/L	17:06:06
1	Fe 234.349†	4784255.7	5294582.1	94.16	mg/L	94.16	mg/L	17:06:01
1	Fe 238.204†	9946897.5	11010058.3	89.19	mg/L	89.19	mg/L	17:05:53
1	Mg 279.077†	5759268.0	6374732.0	243.8	mg/L	243.8	mg/L	17:06:01
1	Mn 257.610†	213025.0	234390.7	0.2483	mg/L	0.2483	mg/L	17:06:06
1	Mo 202.031†	206.8	211.2	0.0125	mg/L	0.0125	mg/L	17:06:27
1	Ni 231.604†	14840.7	16395.2	0.4573	mg/L	0.4573	mg/L	17:06:27
1	P 214.914†	-11.8	-73.4	-0.0273	mg/L	-0.0273	mg/L	17:06:27
1	Pb 220.353†	3625.2	4172.6	0.4791	mg/L	0.4791	mg/L	17:06:27
1	Sb 206.836†	14.9	11.5	0.0005	mg/L	0.0005	mg/L	17:06:27
1	Se 196.026†	17.8	29.9	0.0292	mg/L	0.0292	mg/L	17:06:27
1	Sn 189.927†	-28.4	-246.7	-0.0589	mg/L	-0.0589	mg/L	17:06:27
1	Sr 407.771†	24370.0	20658.1	0.0005	mg/L	0.0005	mg/L	17:06:06
1	Ti 337.279†	2540.9	5042.8	0.0047	mg/L	0.0047	mg/L	17:06:06
1	Tl 190.801†	69.6	93.1	0.0922	mg/L	0.0922	mg/L	17:06:27
1	V 292.402†	59298.2	67221.1	0.2465	mg/L	0.2465	mg/L	17:06:06
1	Zn 213.857†	41622.5	45306.9	0.5005	mg/L	0.5005	mg/L	17:06:06
2	K 766.490†	922.3	363.5	0.1847	mg/L	0.1847	mg/L	17:05:39
2	Li 670.784†	170.0	35.9	-0.0034	mg/L	-0.0034	mg/L	17:05:39
2	Na 589.592	9237.3	113.7	-0.1772	mg/L	-0.1772	mg/L	17:05:39
2	Y 371.029	3450949.8	3450949.8	0.898	mg/L			17:06:46
2	Ag 328.068†	141503.2	159967.6	0.5389	mg/L	0.5389	mg/L	17:06:51
2	Al 237.313†	2009014.0	2238056.3	259.9	mg/L	259.9	mg/L	17:06:46
2	As 188.979†	4.7	-1.7	-0.0023	mg/L	-0.0023	mg/L	17:07:12
2	B 182.528†	7.4	15.1	0.0299	mg/L	0.0299	mg/L	17:07:12
2	Ba 233.527†	27373.7	30661.8	0.2524	mg/L	0.2524	mg/L	17:07:12
2	Be 313.107†	1116386.1	1243217.2	0.2570	mg/L	0.2570	mg/L	17:06:46
2	Ca 315.886†	37928780.9	42246712.1	252.8	mg/L	252.8	mg/L	17:06:38
2	Cd 228.802†	20428.9	22607.2	0.4816	mg/L	0.4816	mg/L	17:07:12
2	Co 228.616†	8663.7	9848.0	0.2288	mg/L	0.2288	mg/L	17:07:12
2	Cr 267.716†	39132.5	41670.2	0.2454	mg/L	0.2454	mg/L	17:06:51
2	Cu 324.752†	57289.2	60945.8	0.2548	mg/L	0.2548	mg/L	17:06:51
2	Fe 234.349†	4745507.1	5284561.6	93.99	mg/L	93.99	mg/L	17:06:46
2	Fe 238.204†	9976273.2	11111684.8	90.01	mg/L	90.01	mg/L	17:06:38
2	Mg 279.077†	5706299.7	6355626.3	243.1	mg/L	243.1	mg/L	17:06:46
2	Mn 257.610†	213791.2	236719.8	0.2508	mg/L	0.2508	mg/L	17:06:51
2	Mo 202.031†	204.1	209.5	0.0124	mg/L	0.0124	mg/L	17:07:12

2	Ni 231.604†	14716.5	16359.7	0.4563 mg/L	0.4563 mg/L	17:07:12
2	P 214.914†	-21.7	-84.4	-0.0344 mg/L	-0.0344 mg/L	17:07:12
2	Pb 220.353†	3578.3	4145.5	0.4761 mg/L	0.4761 mg/L	17:07:12
2	Sb 206.836†	-4.0	-9.4	-0.0089 mg/L	-0.0089 mg/L	17:07:12
2	Se 196.026†	8.7	19.8	0.0183 mg/L	0.0183 mg/L	17:07:12
2	Sn 189.927†	-8.9	-225.1	-0.0539 mg/L	-0.0539 mg/L	17:07:12
2	Sr 407.771†	24450.4	20916.5	0.0005 mg/L	0.0005 mg/L	17:06:51
2	Ti 337.279†	2421.7	4927.6	0.0046 mg/L	0.0046 mg/L	17:06:51
2	Tl 190.801†	65.7	89.2	0.0892 mg/L	0.0892 mg/L	17:07:12
2	V 292.402†	59364.7	67706.0	0.2484 mg/L	0.2484 mg/L	17:06:51
2	Zn 213.857†	41752.1	45739.6	0.5054 mg/L	0.5054 mg/L	17:06:51

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3461747.6	0.901	mg/L	0.0040				0.44%
Ag 328.068†	158879.3	0.5352	mg/L	0.00514	0.5352	mg/L	0.00514	0.96%
QC value within limits for Ag 328.068 Recovery = 107.05%								
Al 237.313†	2240443.0	260.2	mg/L	0.39	260.2	mg/L	0.39	0.15%
QC value within limits for Al 237.313 Recovery = 104.06%								
As 188.979†	1.0	0.0010	mg/L	0.00469	0.0010	mg/L	0.00469	478.09%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	11.9	0.0237	mg/L	0.00877	0.0237	mg/L	0.00877	36.94%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	30629.4	0.2521	mg/L	0.00038	0.2521	mg/L	0.00038	0.15%
QC value within limits for Ba 233.527 Recovery = 100.86%								
Be 313.107†	1243941.9	0.2571	mg/L	0.00021	0.2571	mg/L	0.00021	0.08%
QC value within limits for Be 313.107 Recovery = 102.85%								
Ca 315.886†	42020616.7	251.4	mg/L	1.91	251.4	mg/L	1.91	0.76%
QC value within limits for Ca 315.886 Recovery = 100.56%								
Cd 228.802†	22558.8	0.4805	mg/L	0.00148	0.4805	mg/L	0.00148	0.31%
QC value within limits for Cd 228.802 Recovery = 96.11%								
Co 228.616†	9835.9	0.2286	mg/L	0.00040	0.2286	mg/L	0.00040	0.17%
QC value within limits for Co 228.616 Recovery = 91.42%								
Cr 267.716†	41449.4	0.2441	mg/L	0.00179	0.2441	mg/L	0.00179	0.73%
QC value within limits for Cr 267.716 Recovery = 97.66%								
Cu 324.752†	60707.6	0.2539	mg/L	0.00130	0.2539	mg/L	0.00130	0.51%
QC value within limits for Cu 324.752 Recovery = 101.56%								
Fe 234.349†	5289571.9	94.08	mg/L	0.126	94.08	mg/L	0.126	0.13%
QC value within limits for Fe 234.349 Recovery = 94.08%								
Fe 238.204†	11060871.5	89.60	mg/L	0.582	89.60	mg/L	0.582	0.65%
QC value within limits for Fe 238.204 Recovery = 89.60%								
K 766.490†	363.0	0.1845	mg/L	0.00034	0.1845	mg/L	0.00034	0.19%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	41.1	-0.0032	mg/L	0.00019	-0.0032	mg/L	0.00019	5.78%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	6365179.2	243.5	mg/L	0.52	243.5	mg/L	0.52	0.21%
QC value within limits for Mg 279.077 Recovery = 97.38%								
Mn 257.610†	235555.3	0.2496	mg/L	0.00176	0.2496	mg/L	0.00176	0.71%
QC value within limits for Mn 257.610 Recovery = 99.84%								
Mo 202.031†	210.4	0.0124	mg/L	0.00007	0.0124	mg/L	0.00007	0.57%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	96.6	-0.1793	mg/L	0.00291	-0.1793	mg/L	0.00291	1.62%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	16377.4	0.4568	mg/L	0.00070	0.4568	mg/L	0.00070	0.15%
QC value within limits for Ni 231.604 Recovery = 91.35%								
P 214.914†	-78.9	-0.0308	mg/L	0.00506	-0.0308	mg/L	0.00506	16.42%
QC value within limits for P 214.914 Recovery = Not calculated								
Pb 220.353†	4159.0	0.4776	mg/L	0.00206	0.4776	mg/L	0.00206	0.43%
QC value within limits for Pb 220.353 Recovery = 95.52%								
Sb 206.836†	1.1	-0.0042	mg/L	0.00661	-0.0042	mg/L	0.00661	157.19%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	24.9	0.0238	mg/L	0.00769	0.0238	mg/L	0.00769	32.38%
QC value greater than the upper limit for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-235.9	-0.0564	mg/L	0.00357	-0.0564	mg/L	0.00357	6.33%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated								
Sr 407.771†	20787.3	0.0005	mg/L	0.00001	0.0005	mg/L	0.00001	1.46%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Ti 337.279†	4985.2	0.0047	mg/L	0.00009	0.0047	mg/L	0.00009	1.96%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801†	91.1	0.0907	mg/L	0.00214	0.0907	mg/L	0.00214	2.36%

QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated

V 292.402†	67463.6	0.2474 mg/L	0.00133	0.2474 mg/L	0.00133	0.54%

QC value within limits for V 292.402 Recovery = 98.97%

Zn 213.857†	45523.3	0.5030 mg/L	0.00348	0.5030 mg/L	0.00348	0.69%

QC value within limits for Zn 213.857 Recovery = 100.59%

QC Failed. Continue with analysis.

Sequence No.: 3
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/7/2006 5:08:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	50235.6	51081.9	24.60	mg/L	24.60	mg/L	17:10:24
1	Li 670.784†	19267.3	19693.1	0.5052	mg/L	0.5052	mg/L	17:10:24
1	Na 589.592	215578.0	206454.4	24.66	mg/L	24.66	mg/L	17:10:24
1	Y 371.029	3731839.0	3731839.0	0.971	mg/L			17:10:39
1	Ag 328.068†	69893.8	74341.5	0.2491	mg/L	0.2491	mg/L	17:10:45
1	Al 237.313†	20315.2	21132.2	2.454	mg/L	2.454	mg/L	17:10:45
1	As 188.979†	390.6	395.5	0.4879	mg/L	0.4879	mg/L	17:11:05
1	B 182.528†	234.9	248.8	0.4865	mg/L	0.4865	mg/L	17:11:05
1	Ba 233.527†	58119.1	60036.4	0.4941	mg/L	0.4941	mg/L	17:10:45
1	Be 313.107†	231729.0	238365.1	0.0488	mg/L	0.0488	mg/L	17:10:39
1	Ca 315.886†	813568.7	835694.6	4.989	mg/L	4.989	mg/L	17:10:39
1	Cd 228.802†	11500.3	11697.3	0.2481	mg/L	0.2481	mg/L	17:11:05
1	Co 228.616†	20438.9	21250.8	0.4942	mg/L	0.4942	mg/L	17:10:45
1	Cr 267.716†	84898.2	85530.8	0.4930	mg/L	0.4930	mg/L	17:10:45
1	Cu 324.752†	126168.2	127092.3	0.4975	mg/L	0.4975	mg/L	17:10:45
1	Fe 234.349†	137053.8	139693.3	2.477	mg/L	2.477	mg/L	17:10:45
1	Fe 238.204†	298760.7	306810.2	2.482	mg/L	2.482	mg/L	17:10:45
1	Mg 279.077†	126926.1	130094.6	4.966	mg/L	4.966	mg/L	17:10:45
1	Mn 257.610†	457278.8	469602.8	0.5004	mg/L	0.5004	mg/L	17:10:39
1	Mo 202.031†	7782.1	7998.3	0.4954	mg/L	0.4954	mg/L	17:11:05
1	Ni 231.604†	17357.8	17846.5	0.4984	mg/L	0.4984	mg/L	17:10:45
1	P 214.914†	7378.9	7540.5	4.917	mg/L	4.917	mg/L	17:11:05
1	Pb 220.353†	4504.5	4799.6	0.4980	mg/L	0.4980	mg/L	17:11:05
1	Sb 206.836†	1099.3	1127.5	0.4902	mg/L	0.4902	mg/L	17:11:05
1	Se 196.026†	873.5	909.9	0.9784	mg/L	0.9784	mg/L	17:11:05
1	Sn 189.927†	2249.3	2101.6	0.4887	mg/L	0.4887	mg/L	17:11:05
1	Sr 407.771†	1212901.9	1243046.3	0.0502	mg/L	0.0502	mg/L	17:10:39
1	Ti 337.279†	429278.1	444413.5	0.4975	mg/L	0.4975	mg/L	17:10:39
1	Tl 190.801†	534.9	567.0	0.4597	mg/L	0.4597	mg/L	17:11:05
1	V 292.402†	122637.0	127903.2	0.4989	mg/L	0.4989	mg/L	17:10:45
1	Zn 213.857†	43360.9	43896.3	0.4932	mg/L	0.4932	mg/L	17:10:45
2	K 766.490†	50529.2	51523.1	24.81	mg/L	24.81	mg/L	17:10:30
2	Li 670.784†	19198.2	19674.6	0.5047	mg/L	0.5047	mg/L	17:10:30
2	Na 589.592	217383.2	208259.6	24.88	mg/L	24.88	mg/L	17:10:30
2	Y 371.029	3721917.8	3721917.8	0.968	mg/L			17:11:12
2	Ag 328.068†	70005.1	74648.4	0.2501	mg/L	0.2501	mg/L	17:11:17
2	Al 237.313†	20328.8	21202.1	2.462	mg/L	2.462	mg/L	17:11:17
2	As 188.979†	389.4	395.3	0.4877	mg/L	0.4877	mg/L	17:11:38
2	B 182.528†	240.4	255.1	0.4988	mg/L	0.4988	mg/L	17:11:38
2	Ba 233.527†	58203.2	60282.8	0.4962	mg/L	0.4962	mg/L	17:11:17
2	Be 313.107†	230674.9	237912.6	0.0487	mg/L	0.0487	mg/L	17:11:12
2	Ca 315.886†	811143.1	835423.3	4.987	mg/L	4.987	mg/L	17:11:12
2	Cd 228.802†	11483.7	11711.8	0.2484	mg/L	0.2484	mg/L	17:11:38
2	Co 228.616†	20464.1	21333.0	0.4962	mg/L	0.4962	mg/L	17:11:17
2	Cr 267.716†	85146.2	86020.0	0.4958	mg/L	0.4958	mg/L	17:11:17
2	Cu 324.752†	125709.1	126964.5	0.4970	mg/L	0.4970	mg/L	17:11:17
2	Fe 234.349†	137124.7	140142.9	2.485	mg/L	2.485	mg/L	17:11:17
2	Fe 238.204†	298919.4	307794.5	2.490	mg/L	2.490	mg/L	17:11:17
2	Mg 279.077†	126846.8	130361.2	4.977	mg/L	4.977	mg/L	17:11:17
2	Mn 257.610†	456465.7	470018.6	0.5008	mg/L	0.5008	mg/L	17:11:12
2	Mo 202.031†	7773.0	8010.2	0.4961	mg/L	0.4961	mg/L	17:11:38
2	Ni 231.604†	17215.3	17747.0	0.4956	mg/L	0.4956	mg/L	17:11:17
2	P 214.914†	7378.0	7559.8	4.929	mg/L	4.929	mg/L	17:11:38
2	Pb 220.353†	4482.1	4788.8	0.4969	mg/L	0.4969	mg/L	17:11:38

1	Ni 231.604†	17323.0	18132.1	0.5064 mg/L	0.5064 mg/L	18:58:3
1	P 214.914†	7229.5	7520.7	4.904 mg/L	4.904 mg/L	18:58:5
1	Pb 220.353†	4412.5	4786.6	0.4966 mg/L	0.4966 mg/L	18:58:5
1	Sb 206.836†	1075.0	1122.3	0.4878 mg/L	0.4878 mg/L	18:58:5
1	Se 196.026†	868.8	921.2	0.9905 mg/L	0.9905 mg/L	18:58:5
1	Sn 189.927†	2184.0	2074.9	0.4824 mg/L	0.4824 mg/L	18:58:5
1	Sr 407.771†	1197626.6	1249528.5	0.0504 mg/L	0.0504 mg/L	18:58:33
1	Ti 337.279†	422368.1	445131.0	0.4983 mg/L	0.4983 mg/L	18:58:33
1	Tl 190.801†	656.3	704.3	0.5659 mg/L	0.5659 mg/L	18:58:58
1	V 292.402†	122997.3	130556.0	0.5092 mg/L	0.5092 mg/L	18:58:38
1	Zn 213.857†	43022.0	44345.2	0.4982 mg/L	0.4982 mg/L	18:58:38
2	K 766.490†	49899.4	51669.4	24.88 mg/L	24.88 mg/L	18:58:23
2	Li 670.784†	18617.2	19371.8	0.4968 mg/L	0.4968 mg/L	18:58:23
2	Na 589.592	225317.4	216193.8	25.83 mg/L	25.83 mg/L	18:58:23
2	Y 371.029	3665247.7	3665247.7	0.953 mg/L		18:59:05
2	Ag 328.068†	68739.5	74438.9	0.2494 mg/L	0.2494 mg/L	18:59:10
2	Al 237.313†	20082.3	21268.2	2.470 mg/L	2.470 mg/L	18:59:10
2	As 188.979†	389.3	401.4	0.4952 mg/L	0.4952 mg/L	18:59:31
2	B 182.528†	241.5	260.1	0.5086 mg/L	0.5086 mg/L	18:59:31
2	Ba 233.527†	57490.0	60464.3	0.4977 mg/L	0.4977 mg/L	18:59:10
2	Be 313.107†	228600.7	239420.9	0.0490 mg/L	0.0490 mg/L	18:59:10
2	Ca 315.886†	794283.1	830693.8	4.959 mg/L	4.959 mg/L	18:59:05
2	Cd 228.802†	11297.4	11699.8	0.2482 mg/L	0.2482 mg/L	18:59:31
2	Co 228.616†	20180.8	21362.7	0.4969 mg/L	0.4969 mg/L	18:59:10
2	Cr 267.716†	83661.2	85822.3	0.4946 mg/L	0.4946 mg/L	18:59:10
2	Cu 324.752†	124447.1	127648.4	0.4997 mg/L	0.4997 mg/L	18:59:10
2	Fe 234.349†	134979.1	140082.3	2.484 mg/L	2.484 mg/L	18:59:10
2	Fe 238.204†	294160.6	307576.9	2.488 mg/L	2.488 mg/L	18:59:10
2	Mg 279.077†	124177.9	129587.7	4.947 mg/L	4.947 mg/L	18:59:10
2	Mn 257.610†	450097.5	470629.0	0.5015 mg/L	0.5015 mg/L	18:59:05
2	Mo 202.031†	7668.4	8024.6	0.4970 mg/L	0.4970 mg/L	18:59:31
2	Ni 231.604†	17174.9	17979.5	0.5021 mg/L	0.5021 mg/L	18:59:10
2	P 214.914†	7203.0	7494.0	4.887 mg/L	4.887 mg/L	18:59:31
2	Pb 220.353†	4378.0	4751.2	0.4930 mg/L	0.4930 mg/L	18:59:31
2	Sb 206.836†	1064.5	1111.5	0.4831 mg/L	0.4831 mg/L	18:59:31
2	Se 196.026†	866.2	918.6	0.9878 mg/L	0.9878 mg/L	18:59:31
2	Sn 189.927†	2162.6	2052.8	0.4773 mg/L	0.4773 mg/L	18:59:31
2	Sr 407.771†	1197954.2	1250068.4	0.0505 mg/L	0.0505 mg/L	18:59:05
2	Ti 337.279†	421758.9	444561.3	0.4976 mg/L	0.4976 mg/L	18:59:05
2	Tl 190.801†	649.9	697.6	0.5608 mg/L	0.5608 mg/L	18:59:31
2	V 292.402†	121399.5	128900.4	0.5028 mg/L	0.5028 mg/L	18:59:10
2	Zn 213.857†	42555.0	43862.5	0.4928 mg/L	0.4928 mg/L	18:59:10

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3665534.1	0.954	mg/L	0.0001				0.01%
Ag 328.068†	74852.3	0.2508	mg/L	0.00196	0.2508	mg/L	0.00196	0.78%
QC value within limits for Ag 328.068 Recovery = 100.31%								
Al 237.313†	21424.7	2.488	mg/L	0.0257	2.488	mg/L	0.0257	1.03%
QC value within limits for Al 237.313 Recovery = 99.52%								
As 188.979†	401.7	0.4956	mg/L	0.00056	0.4956	mg/L	0.00056	0.11%
QC value within limits for As 188.979 Recovery = 99.11%								
B 182.528†	260.2	0.5088	mg/L	0.00024	0.5088	mg/L	0.00024	0.05%
QC value within limits for B 182.528 Recovery = 101.76%								
Ba 233.527†	60884.1	0.5011	mg/L	0.00488	0.5011	mg/L	0.00488	0.97%
QC value within limits for Ba 233.527 Recovery = 100.22%								
Be 313.107†	241275.2	0.0494	mg/L	0.00054	0.0494	mg/L	0.00054	1.09%
QC value within limits for Be 313.107 Recovery = 98.86%								
Ca 315.886†	831255.1	4.962	mg/L	0.0048	4.962	mg/L	0.0048	0.10%
QC value within limits for Ca 315.886 Recovery = 99.25%								
Cd 228.802†	11718.1	0.2486	mg/L	0.00056	0.2486	mg/L	0.00056	0.23%
QC value within limits for Cd 228.802 Recovery = 99.42%								
Co 228.616†	21474.7	0.4995	mg/L	0.00370	0.4995	mg/L	0.00370	0.74%
QC value within limits for Co 228.616 Recovery = 99.89%								
Cr 267.716†	86391.0	0.4979	mg/L	0.00465	0.4979	mg/L	0.00465	0.93%
QC value within limits for Cr 267.716 Recovery = 99.58%								
Cu 324.752†	128594.5	0.5034	mg/L	0.00524	0.5034	mg/L	0.00524	1.04%
QC value within limits for Cu 324.752 Recovery = 100.68%								
Fe 234.349†	140910.2	2.499	mg/L	0.0208	2.499	mg/L	0.0208	0.83%
QC value within limits for Fe 234.349 Recovery = 99.95%								

Fe 238.204†	309551.0	2.504 mg/L	0.0226	2.504 mg/L	0.0226	0.90%
QC value within limits for Fe 238.204 Recovery = 100.17%						
K 766.490†	52133.3	25.11 mg/L	0.316	25.11 mg/L	0.316	1.26%
QC value within limits for K 766.490 Recovery = 100.43%						
Li 670.784†	19492.4	0.5000 mg/L	0.00441	0.5000 mg/L	0.00441	0.88%
QC value within limits for Li 670.784 Recovery = 99.99%						
Mg 279.077†	130674.9	4.989 mg/L	0.0588	4.989 mg/L	0.0588	1.18%
QC value within limits for Mg 279.077 Recovery = 99.77%						
Mn 257.610†	470798.3	0.5016 mg/L	0.00026	0.5016 mg/L	0.00026	0.05%
QC value within limits for Mn 257.610 Recovery = 100.33%						
Mo 202.031†	8034.6	0.4976 mg/L	0.00087	0.4976 mg/L	0.00087	0.18%
QC value within limits for Mo 202.031 Recovery = 99.53%						
Na 589.592	216587.4	25.88 mg/L	0.067	25.88 mg/L	0.067	0.26%
QC value within limits for Na 589.592 Recovery = 103.51%						
Ni 231.604†	18055.8	0.5043 mg/L	0.00303	0.5043 mg/L	0.00303	0.60%
QC value within limits for Ni 231.604 Recovery = 100.85%						
P 214.914†	7507.3	4.895 mg/L	0.0122	4.895 mg/L	0.0122	0.25%
QC value within limits for P 214.914 Recovery = 97.91%						
Pb 220.353†	4768.9	0.4948 mg/L	0.00260	0.4948 mg/L	0.00260	0.53%
QC value within limits for Pb 220.353 Recovery = 98.96%						
Sb 206.836†	1116.9	0.4854 mg/L	0.00333	0.4854 mg/L	0.00333	0.69%
QC value within limits for Sb 206.836 Recovery = 97.08%						
Se 196.026†	919.9	0.9892 mg/L	0.00192	0.9892 mg/L	0.00192	0.19%
QC value within limits for Se 196.026 Recovery = 98.92%						
Sn 189.927†	2063.8	0.4798 mg/L	0.00366	0.4798 mg/L	0.00366	0.76%
QC value within limits for Sn 189.927 Recovery = 95.97%						
Sr 407.771†	1249798.4	0.0504 mg/L	0.00002	0.0504 mg/L	0.00002	0.03%
QC value within limits for Sr 407.771 Recovery = 100.88%						
Ti 337.279†	444846.1	0.4979 mg/L	0.00045	0.4979 mg/L	0.00045	0.09%
QC value within limits for Ti 337.279 Recovery = 99.59%						
Tl 190.801†	700.9	0.5633 mg/L	0.00361	0.5633 mg/L	0.00361	0.64%
QC value greater than the upper limit for Tl 190.801 Recovery = 112.67%						
V 292.402†	129728.2	0.5060 mg/L	0.00451	0.5060 mg/L	0.00451	0.89%
QC value within limits for V 292.402 Recovery = 101.20%						
Zn 213.857†	44103.9	0.4955 mg/L	0.00384	0.4955 mg/L	0.00384	0.78%
QC value within limits for Zn 213.857 Recovery = 99.10%						

QC Failed. Continue with analysis.

Sequence No.: 28
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/7/2006 7:01:09 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	947.9	305.2	0.1567	mg/L	0.1567	mg/L	19:02:42
1	Li 670.784†	182.3	32.9	-0.0035	mg/L	-0.0035	mg/L	19:02:42
1	Na 589.592	14319.6	5196.0	0.4345	mg/L	0.4345	mg/L	19:02:42
1	Y 371.029	3759833.1	3759833.1	0.978	mg/L			19:02:56
1	Ag 328.068†	-2138.8	159.8	0.0004	mg/L	0.0004	mg/L	19:03:01
1	Al 237.313†	-165.4	37.2	0.0095	mg/L	0.0095	mg/L	19:03:21
1	As 188.979†	6.4	-0.3	-0.0003	mg/L	-0.0003	mg/L	19:03:21
1	B 182.528†	3.7	10.6	0.0211	mg/L	0.0211	mg/L	19:03:21
1	Ba 233.527†	-176.5	-10.4	0.0003	mg/L	0.0003	mg/L	19:03:21
1	Be 313.107†	308.4	-15.1	0.0001	mg/L	0.0001	mg/L	19:03:01
1	Ca 315.886†	2353.0	73.4	-0.0132	mg/L	-0.0132	mg/L	19:03:01
1	Cd 228.802†	140.9	-4.6	0.0002	mg/L	0.0002	mg/L	19:03:21
1	Co 228.616†	-184.6	8.7	-0.0010	mg/L	-0.0010	mg/L	19:03:21
1	Cr 267.716†	1856.1	-22.1	-0.0008	mg/L	-0.0008	mg/L	19:03:01
1	Cu 324.752†	2232.4	-586.5	-0.0029	mg/L	-0.0029	mg/L	19:03:01
1	Fe 234.349†	1510.5	63.7	-0.0009	mg/L	-0.0009	mg/L	19:03:21
1	Fe 238.204†	1018.5	109.2	-0.0030	mg/L	-0.0030	mg/L	19:03:21
1	Mg 279.077†	657.5	25.0	-0.0137	mg/L	-0.0137	mg/L	19:03:01
1	Mn 257.610†	1251.9	-143.2	-0.0029	mg/L	-0.0029	mg/L	19:03:01
1	Mo 202.031†	35.6	18.6	0.0005	mg/L	0.0005	mg/L	19:03:21
1	Ni 231.604†	33.8	1.4	-0.0029	mg/L	-0.0029	mg/L	19:03:21
1	P 214.914†	50.5	-8.6	0.0148	mg/L	0.0148	mg/L	19:03:21
1	Pb 220.353†	-153.6	2.6	-0.0010	mg/L	-0.0010	mg/L	19:03:21

1	Sb 206.836†	10.1	5.4	0.0016 mg/L	0.0016 mg/L	19:03:21
1	Se 196.026†	-9.2	0.7	-0.0023 mg/L	-0.0023 mg/L	19:03:21
1	Sn 189.927†	101.8	-111.2	-0.0309 mg/L	-0.0309 mg/L	19:03:21
1	Sr 407.771†	5992.6	-192.2	-0.0003 mg/L	-0.0003 mg/L	19:02:56
1	Ti 337.279†	-2207.3	-26.6	-0.0009 mg/L	-0.0009 mg/L	19:03:01
1	Tl 190.801†	-4.1	11.8	0.0275 mg/L	0.0275 mg/L	19:03:21
1	V 292.402†	-1568.2	-23.9	0.0003 mg/L	0.0003 mg/L	19:03:01
1	Zn 213.857†	688.9	-63.9	-0.0010 mg/L	-0.0010 mg/L	19:03:21
2	K 766.490†	935.3	291.6	0.1501 mg/L	0.1501 mg/L	19:02:48
2	Li 670.784†	232.4	84.0	-0.0021 mg/L	-0.0021 mg/L	19:02:48
2	Na 589.592	14394.4	5270.8	0.4435 mg/L	0.4435 mg/L	19:02:48
2	Y 371.029	3762497.4	3762497.4	0.979 mg/L		19:03:27
2	Ag 328.068†	-2240.8	57.1	0.0001 mg/L	0.0001 mg/L	19:03:32
2	Al 237.313†	-201.6	0.3	0.0053 mg/L	0.0053 mg/L	19:03:53
2	As 188.979†	6.4	-0.3	-0.0003 mg/L	-0.0003 mg/L	19:03:53
2	B 182.528†	1.0	7.9	0.0158 mg/L	0.0158 mg/L	19:03:53
2	Ba 233.527†	-158.2	8.4	0.0004 mg/L	0.0004 mg/L	19:03:53
2	Be 313.107†	482.0	162.0	0.0002 mg/L	0.0002 mg/L	19:03:32
2	Ca 315.886†	2557.7	280.8	-0.0119 mg/L	-0.0119 mg/L	19:03:32
2	Cd 228.802†	144.3	-1.3	0.0002 mg/L	0.0002 mg/L	19:03:53
2	Co 228.616†	-212.6	-19.7	-0.0016 mg/L	-0.0016 mg/L	19:03:53
2	Cr 267.716†	1784.0	-97.0	-0.0012 mg/L	-0.0012 mg/L	19:03:32
2	Cu 324.752†	2102.9	-720.5	-0.0035 mg/L	-0.0035 mg/L	19:03:32
2	Fe 234.349†	1508.0	60.0	-0.0010 mg/L	-0.0010 mg/L	19:03:53
2	Fe 238.204†	1037.8	128.2	-0.0028 mg/L	-0.0028 mg/L	19:03:53
2	Mg 279.077†	680.9	48.4	-0.0128 mg/L	-0.0128 mg/L	19:03:32
2	Mn 257.610†	1309.7	-85.1	-0.0029 mg/L	-0.0029 mg/L	19:03:32
2	Mo 202.031†	30.9	13.9	0.0002 mg/L	0.0002 mg/L	19:03:53
2	Ni 231.604†	34.6	2.2	-0.0029 mg/L	-0.0029 mg/L	19:03:53
2	P 214.914†	67.4	8.6	0.0260 mg/L	0.0260 mg/L	19:03:53
2	Pb 220.353†	-165.4	-9.3	-0.0023 mg/L	-0.0023 mg/L	19:03:53
2	Sb 206.836†	12.2	7.6	0.0025 mg/L	0.0025 mg/L	19:03:53
2	Se 196.026†	-11.0	-1.1	-0.0042 mg/L	-0.0042 mg/L	19:03:53
2	Sn 189.927†	116.8	-95.9	-0.0273 mg/L	-0.0273 mg/L	19:03:53
2	Sr 407.771†	5935.6	-254.8	-0.0003 mg/L	-0.0003 mg/L	19:03:27
2	Ti 337.279†	-2205.2	-22.9	-0.0009 mg/L	-0.0009 mg/L	19:03:32
2	Tl 190.801†	9.8	26.0	0.0384 mg/L	0.0384 mg/L	19:03:53
2	V 292.402†	-1522.4	24.0	0.0005 mg/L	0.0005 mg/L	19:03:32
2	Zn 213.857†	693.4	-59.8	-0.0010 mg/L	-0.0010 mg/L	19:03:53

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3761165.3	0.978	mg/L	0.0005				0.05%
Ag 328.068†	108.4	0.0003	mg/L	0.00024	0.0003	mg/L	0.00024	92.54%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	18.7	0.0074	mg/L	0.00304	0.0074	mg/L	0.00304	41.01%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	-0.3	-0.0003	mg/L	0.00003	-0.0003	mg/L	0.00003	9.29%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	9.2	0.0185	mg/L	0.00379	0.0185	mg/L	0.00379	20.53%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	-1.0	0.0003	mg/L	0.00011	0.0003	mg/L	0.00011	31.91%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	73.5	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	16.19%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	177.1	-0.0126	mg/L	0.00088	-0.0126	mg/L	0.00088	6.99%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	-3.0	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	22.65%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-5.5	-0.0013	mg/L	0.00047	-0.0013	mg/L	0.00047	35.96%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-59.6	-0.0010	mg/L	0.00031	-0.0010	mg/L	0.00031	30.10%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-653.5	-0.0032	mg/L	0.00037	-0.0032	mg/L	0.00037	11.63%
QC value less than the lower limit for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	61.9	-0.0009	mg/L	0.00005	-0.0009	mg/L	0.00005	4.89%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Fe 238.204†	118.7	-0.0029	mg/L	0.00011	-0.0029	mg/L	0.00011	3.78%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	298.4	0.1534	mg/L	0.00462	0.1534	mg/L	0.00462	3.01%

QC value greater than the upper limit for K 766.490 Recovery = Not calculated

Li 670.784†	58.4	-0.0028 mg/L	0.00094	-0.0028 mg/L	0.00094	33.43%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	36.7	-0.0132 mg/L	0.00063	-0.0132 mg/L	0.00063	4.78%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	-114.2	-0.0029 mg/L	0.00004	-0.0029 mg/L	0.00004	1.51%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	16.2	0.0004 mg/L	0.00021	0.0004 mg/L	0.00021	53.06%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	5233.4	0.4390 mg/L	0.00636	0.4390 mg/L	0.00636	1.45%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	1.8	-0.0029 mg/L	0.00002	-0.0029 mg/L	0.00002	0.55%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated						
P 214.914†	-0.0	0.0204 mg/L	0.00791	0.0204 mg/L	0.00791	38.81%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-3.4	-0.0017 mg/L	0.00087	-0.0017 mg/L	0.00087	52.96%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	6.5	0.0021 mg/L	0.00069	0.0021 mg/L	0.00069	33.82%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-0.2	-0.0033 mg/L	0.00138	-0.0033 mg/L	0.00138	41.99%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-103.6	-0.0291 mg/L	0.00253	-0.0291 mg/L	0.00253	8.68%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	-223.5	-0.0003 mg/L	0.00000	-0.0003 mg/L	0.00000	0.52%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	-24.8	-0.0009 mg/L	0.00000	-0.0009 mg/L	0.00000	0.31%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	18.9	0.0330 mg/L	0.00776	0.0330 mg/L	0.00776	23.53%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	0.1	0.0004 mg/L	0.00013	0.0004 mg/L	0.00013	31.92%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-61.9	-0.0010 mg/L	0.00003	-0.0010 mg/L	0.00003	3.25%
QC value within limits for Zn 213.857 Recovery = Not calculated						

QC Failed. Continue with analysis.

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Sequence No.: 29 **Autosampler Location: 29**
Sample ID: 0606090-01TCLP **Date Collected: 6/7/2006 7:05:30 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 0606090-01TCLP

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	7000.0	7640.8	3.688	mg/L	3.688	mg/L	19:07:04
1	Li 670.784†	349.3	260.9	0.0024	mg/L	0.0024	mg/L	19:07:04
1	Na 589.592	Saturated2	Saturated2					19:07:04
Saturated in preshot (code 2)								
1	Y 371.029	3240077.3	3240077.3	0.843	mg/L			19:07:25
1	Ag 328.068†	-1979.3	-1.8	-0.0001	mg/L	-0.0001	mg/L	19:07:30
1	Al 237.313†	2941.5	3696.1	0.4343	mg/L	0.4343	mg/L	19:07:50
1	As 188.979†	6.0	0.3	0.0004	mg/L	0.0004	mg/L	19:07:50
1	B 182.528†	42.4	57.2	0.1122	mg/L	0.1122	mg/L	19:07:50
1	Ba 233.527†	48171.2	57320.3	0.4719	mg/L	0.4719	mg/L	19:07:30
1	Be 313.107†	1158.8	1044.4	0.0004	mg/L	0.0004	mg/L	19:07:30
1	Ca 315.886†	10523260.5	12482468.1	74.67	mg/L	74.67	mg/L	19:07:19
1	Cd 228.802†	244.4	141.3	0.0033	mg/L	0.0033	mg/L	19:07:50
1	Co 228.616†	-56.2	130.8	0.0019	mg/L	0.0019	mg/L	19:07:50
1	Cr 267.716†	2191.5	680.3	0.0031	mg/L	0.0031	mg/L	19:07:50
1	Cu 324.752†	11876.3	11221.1	0.0433	mg/L	0.0433	mg/L	19:07:30
1	Fe 234.349†	3603.1	2794.1	0.0475	mg/L	0.0475	mg/L	19:07:50
1	Fe 238.204†	3360.9	3055.3	0.0209	mg/L	0.0209	mg/L	19:07:50
1	Mg 279.077†	49631.7	58235.8	2.215	mg/L	2.215	mg/L	19:07:30
1	Mn 257.610†	166586.2	196214.8	0.2074	mg/L	0.2074	mg/L	19:07:30
1	Mo 202.031†	152.1	162.7	0.0095	mg/L	0.0095	mg/L	19:07:50
1	Ni 231.604†	316.5	342.3	0.0066	mg/L	0.0066	mg/L	19:07:50
1	P 214.914†	112.0	72.5	0.0675	mg/L	0.0675	mg/L	19:07:50
1	Pb 220.353†	30819.3	36723.7	3.810	mg/L	3.810	mg/L	19:07:30
1	Sb 206.836†	-1.9	-7.2	-0.0042	mg/L	-0.0042	mg/L	19:07:50
1	Se 196.026†	-10.0	-1.6	-0.0048	mg/L	-0.0048	mg/L	19:07:50

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1603.2	946.5	0.4654	mg/L	0.4654	mg/L	19:44:37
1	Li 670.784†	177.8	25.2	-0.0037	mg/L	-0.0037	mg/L	19:44:37
1	Na 589.592	49785.6	40662.0	4.703	mg/L	4.703	mg/L	19:44:37
1	Y 371.029	3826852.6	3826852.6	0.996	mg/L			19:44:51
1	Ag 328.068†	-2492.4	-157.2	-0.0006	mg/L	-0.0006	mg/L	19:44:56
1	Al 237.313†	-151.6	54.0	0.0114	mg/L	0.0114	mg/L	19:45:16
1	As 188.979†	2.5	-4.3	-0.0052	mg/L	-0.0052	mg/L	19:45:16
1	B 182.528†	11.3	18.3	0.0361	mg/L	0.0361	mg/L	19:45:16
1	Ba 233.527†	-156.6	12.7	0.0005	mg/L	0.0005	mg/L	19:45:16
1	Be 313.107†	399.9	71.4	0.0002	mg/L	0.0002	mg/L	19:44:56
1	Ca 315.886†	16786.7	14529.7	0.0733	mg/L	0.0733	mg/L	19:44:56
1	Cd 228.802†	148.3	0.3	0.0003	mg/L	0.0003	mg/L	19:45:16
1	Co 228.616†	-197.6	-1.0	-0.0012	mg/L	-0.0012	mg/L	19:45:16
1	Cr 267.716†	2826.8	919.8	0.0046	mg/L	0.0046	mg/L	19:44:56
1	Cu 324.752†	2494.8	-362.9	-0.0020	mg/L	-0.0020	mg/L	19:44:56
1	Fe 234.349†	3055.8	1588.9	0.0262	mg/L	0.0262	mg/L	19:44:56
1	Fe 238.204†	4107.5	3193.9	0.0220	mg/L	0.0220	mg/L	19:44:56
1	Mg 279.077†	868.1	224.8	-0.0060	mg/L	-0.0060	mg/L	19:44:56
1	Mn 257.610†	2580.2	1168.7	-0.0015	mg/L	-0.0015	mg/L	19:44:56
1	Mo 202.031†	62.9	45.4	0.0022	mg/L	0.0022	mg/L	19:45:16
1	Ni 231.604†	132.3	99.8	-0.0002	mg/L	-0.0002	mg/L	19:45:16
1	P 214.914†	1477.4	1423.7	0.9449	mg/L	0.9449	mg/L	19:45:16
1	Pb 220.353†	-55.4	104.0	0.0095	mg/L	0.0095	mg/L	19:45:16
1	Sb 206.836†	3.0	-1.9	-0.0018	mg/L	-0.0018	mg/L	19:45:16
1	Se 196.026†	-2.8	7.3	0.0048	mg/L	0.0048	mg/L	19:45:16
1	Sn 189.927†	139.2	-75.5	-0.0225	mg/L	-0.0225	mg/L	19:45:16
1	Sr 407.771†	7958.2	1674.9	-0.0003	mg/L	-0.0003	mg/L	19:44:51
1	Ti 337.279†	-1851.5	370.2	-0.0005	mg/L	-0.0005	mg/L	19:44:56
1	Tl 190.801†	-3.7	12.3	0.0279	mg/L	0.0279	mg/L	19:45:16
1	V 292.402†	-1401.9	171.2	0.0011	mg/L	0.0011	mg/L	19:44:56
1	Zn 213.857†	1550.6	789.4	0.0086	mg/L	0.0086	mg/L	19:45:16
2	K 766.490†	1585.6	908.2	0.4469	mg/L	0.4469	mg/L	19:44:43
2	Li 670.784†	135.3	-19.3	-0.0048	mg/L	-0.0048	mg/L	19:44:43
2	Na 589.592	49743.3	40619.8	4.698	mg/L	4.698	mg/L	19:44:43
2	Y 371.029	3876962.9	3876962.9	1.01	mg/L			19:45:22
2	Ag 328.068†	-2364.6	1.9	-0.0001	mg/L	-0.0001	mg/L	19:45:28
2	Al 237.313†	-130.3	77.1	0.0141	mg/L	0.0141	mg/L	19:45:48
2	As 188.979†	6.7	-0.2	-0.0002	mg/L	-0.0002	mg/L	19:45:48
2	B 182.528†	9.8	16.6	0.0327	mg/L	0.0327	mg/L	19:45:48
2	Ba 233.527†	-156.2	15.2	0.0005	mg/L	0.0005	mg/L	19:45:48
2	Be 313.107†	366.6	33.1	0.0002	mg/L	0.0002	mg/L	19:45:28
2	Ca 315.886†	16391.4	13919.9	0.0697	mg/L	0.0697	mg/L	19:45:28
2	Cd 228.802†	155.4	5.4	0.0004	mg/L	0.0004	mg/L	19:45:48
2	Co 228.616†	-171.0	27.9	-0.0005	mg/L	-0.0005	mg/L	19:45:48
2	Cr 267.716†	2825.3	881.6	0.0044	mg/L	0.0044	mg/L	19:45:28
2	Cu 324.752†	2479.8	-410.1	-0.0022	mg/L	-0.0022	mg/L	19:45:28
2	Fe 234.349†	3019.9	1513.6	0.0248	mg/L	0.0248	mg/L	19:45:28
2	Fe 238.204†	4067.6	3101.0	0.0213	mg/L	0.0213	mg/L	19:45:28
2	Mg 279.077†	839.8	185.3	-0.0076	mg/L	-0.0076	mg/L	19:45:28
2	Mn 257.610†	2552.5	1107.7	-0.0016	mg/L	-0.0016	mg/L	19:45:28
2	Mo 202.031†	42.0	23.8	0.0009	mg/L	0.0009	mg/L	19:45:48
2	Ni 231.604†	130.3	96.1	-0.0003	mg/L	-0.0003	mg/L	19:45:48
2	P 214.914†	1461.9	1389.2	0.9224	mg/L	0.9224	mg/L	19:45:48
2	Pb 220.353†	-45.4	114.6	0.0106	mg/L	0.0106	mg/L	19:45:48
2	Sb 206.836†	8.3	3.3	0.0005	mg/L	0.0005	mg/L	19:45:48
2	Se 196.026†	-5.9	4.3	0.0016	mg/L	0.0016	mg/L	19:45:48
2	Sn 189.927†	140.2	-76.2	-0.0227	mg/L	-0.0227	mg/L	19:45:48
2	Sr 407.771†	8080.9	1693.3	-0.0003	mg/L	-0.0003	mg/L	19:45:22
2	Ti 337.279†	-2051.9	195.6	-0.0007	mg/L	-0.0007	mg/L	19:45:28
2	Tl 190.801†	1.9	17.9	0.0322	mg/L	0.0322	mg/L	19:45:48
2	V 292.402†	-1454.6	137.1	0.0009	mg/L	0.0009	mg/L	19:45:28
2	Zn 213.857†	1536.5	755.3	0.0082	mg/L	0.0082	mg/L	19:45:48

Mean Data: BF60721-BLK1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3851907.8	1.00	mg/L	0.009				0.92%
Ag 328.068†	-77.6	-0.0004	mg/L	0.00038	-0.0004	mg/L	0.00038	104.95%
Al 237.313†	65.6	0.0127	mg/L	0.00191	0.0127	mg/L	0.00191	14.95%

As 188.979†	-2.3	-0.0027 mg/L	0.00357	-0.0027 mg/L	0.00357	131.35%
B 182.528†	17.4	0.0344 mg/L	0.00234	0.0344 mg/L	0.00234	6.81%
Ba 233.527†	13.9	0.0005 mg/L	0.00001	0.0005 mg/L	0.00001	2.96%
Be 313.107†	52.2	0.0002 mg/L	0.00001	0.0002 mg/L	0.00001	3.51%
Ca 315.886†	14224.8	0.0715 mg/L	0.00258	0.0715 mg/L	0.00258	3.61%
Cd 228.802†	2.8	0.0003 mg/L	0.00006	0.0003 mg/L	0.00006	16.95%
Co 228.616†	13.4	-0.0009 mg/L	0.00048	-0.0009 mg/L	0.00048	55.20%
Cr 267.716†	900.7	0.0045 mg/L	0.00016	0.0045 mg/L	0.00016	3.44%
Cu 324.752†	-386.5	-0.0021 mg/L	0.00013	-0.0021 mg/L	0.00013	6.12%
Fe 234.349†	1551.2	0.0255 mg/L	0.00095	0.0255 mg/L	0.00095	3.71%
Fe 238.204†	3147.4	0.0216 mg/L	0.00053	0.0216 mg/L	0.00053	2.46%
K 766.490†	927.4	0.4562 mg/L	0.01305	0.4562 mg/L	0.01305	2.86%
Li 670.784†	3.0	-0.0042 mg/L	0.00081	-0.0042 mg/L	0.00081	19.21%
Mg 279.077†	205.0	-0.0068 mg/L	0.00107	-0.0068 mg/L	0.00107	15.68%
Mn 257.610†	1138.2	-0.0016 mg/L	0.00005	-0.0016 mg/L	0.00005	2.93%
Mo 202.031†	34.6	0.0015 mg/L	0.00095	0.0015 mg/L	0.00095	61.65%
Na 589.592	40640.9	4.701 mg/L	0.0036	4.701 mg/L	0.0036	0.08%
Ni 231.604†	97.9	-0.0002 mg/L	0.00007	-0.0002 mg/L	0.00007	34.68%
P 214.914†	1406.4	0.9337 mg/L	0.01586	0.9337 mg/L	0.01586	1.70%
Pb 220.353†	109.3	0.0100 mg/L	0.00077	0.0100 mg/L	0.00077	7.70%
Sb 206.836†	0.7	-0.0006 mg/L	0.00166	-0.0006 mg/L	0.00166	261.80%
Se 196.026†	5.8	0.0032 mg/L	0.00228	0.0032 mg/L	0.00228	71.28%
Sn 189.927†	-75.8	-0.0226 mg/L	0.00013	-0.0226 mg/L	0.00013	0.56%
Sr 407.771†	1684.1	-0.0003 mg/L	0.00000	-0.0003 mg/L	0.00000	0.20%
Ti 337.279†	282.9	-0.0006 mg/L	0.00014	-0.0006 mg/L	0.00014	23.03%
Tl 190.801†	15.1	0.0300 mg/L	0.00306	0.0300 mg/L	0.00306	10.18%
V 292.402†	154.2	0.0010 mg/L	0.00011	0.0010 mg/L	0.00011	10.80%
Zn 213.857†	772.3	0.0084 mg/L	0.00027	0.0084 mg/L	0.00027	3.24%

Sequence No.: 38 **Autosampler Location: 38**
Sample ID: BF60721-BS1 **Date Collected: 6/7/2006 7:47:27 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: BF60721-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	51326.6	52533.7	25.30	mg/L	25.30	mg/L	19:49:06
1	Li 670.784†	18884.1	19419.0	0.4981	mg/L	0.4981	mg/L	19:49:06
1	Na 589.592	230643.3	221519.7	26.47	mg/L	26.47	mg/L	19:49:06
1	Y 371.029	3708834.5	3708834.5	0.965	mg/L			19:49:21
1	Ag 328.068†	69735.5	74624.0	0.2500	mg/L	0.2500	mg/L	19:49:26
1	Al 237.313†	20376.3	21325.3	2.476	mg/L	2.476	mg/L	19:49:26
1	As 188.979†	372.2	378.9	0.4673	mg/L	0.4673	mg/L	19:49:46
1	B 182.528†	235.8	251.3	0.4914	mg/L	0.4914	mg/L	19:49:46
1	Ba 233.527†	59090.8	61414.8	0.5055	mg/L	0.5055	mg/L	19:49:26
1	Be 313.107†	233140.8	241308.9	0.0494	mg/L	0.0494	mg/L	19:49:26
1	Ca 315.886†	843181.6	871584.9	5.204	mg/L	5.204	mg/L	19:49:21
1	Cd 228.802†	11389.8	11656.3	0.2474	mg/L	0.2474	mg/L	19:49:46
1	Co 228.616†	20677.1	21628.2	0.5030	mg/L	0.5030	mg/L	19:49:26
1	Cr 267.716†	87305.7	88568.4	0.5105	mg/L	0.5105	mg/L	19:49:26
1	Cu 324.752†	129271.8	131115.1	0.5133	mg/L	0.5133	mg/L	19:49:26
1	Fe 234.349†	141886.4	145577.8	2.582	mg/L	2.582	mg/L	19:49:26
1	Fe 238.204†	308983.6	319314.5	2.583	mg/L	2.583	mg/L	19:49:26
1	Mg 279.077†	125527.1	129455.5	4.942	mg/L	4.942	mg/L	19:49:26
1	Mn 257.610†	467986.7	483622.6	0.5154	mg/L	0.5154	mg/L	19:49:21
1	Mo 202.031†	8035.4	8310.6	0.5147	mg/L	0.5147	mg/L	19:49:46
1	Ni 231.604†	17586.2	18194.1	0.5082	mg/L	0.5082	mg/L	19:49:26
1	P 214.914†	7161.0	7361.7	4.801	mg/L	4.801	mg/L	19:49:46
1	Pb 220.353†	4477.4	4800.3	0.4981	mg/L	0.4981	mg/L	19:49:46
1	Sb 206.836†	1065.2	1099.1	0.4772	mg/L	0.4772	mg/L	19:49:46
1	Se 196.026†	819.6	859.6	0.9242	mg/L	0.9242	mg/L	19:49:46
1	Sn 189.927†	2296.8	2165.3	0.5037	mg/L	0.5037	mg/L	19:49:46
1	Sr 407.771†	1245215.7	1284287.3	0.0518	mg/L	0.0518	mg/L	19:49:21
1	Ti 337.279†	445406.4	463872.4	0.5193	mg/L	0.5193	mg/L	19:49:21
1	Tl 190.801†	653.7	693.6	0.5578	mg/L	0.5578	mg/L	19:49:46
1	V 292.402†	125456.3	131608.8	0.5135	mg/L	0.5135	mg/L	19:49:26
1	Zn 213.857†	42660.6	43447.4	0.4881	mg/L	0.4881	mg/L	19:49:26
2	K 766.490†	51386.4	53024.2	25.54	mg/L	25.54	mg/L	19:49:11

2	Li 670.784†	18881.9	19574.2	0.5021 mg/L	0.5021 mg/L	19:49:11
2	Na 589.592	229837.5	220713.9	26.37 mg/L	26.37 mg/L	19:49:11
2	Y 371.029	3679232.5	3679232.5	0.957 mg/L		19:49:53
2	Ag 328.068†	69798.1	75270.9	0.2522 mg/L	0.2522 mg/L	19:49:59
2	Al 237.313†	20378.1	21497.2	2.496 mg/L	2.496 mg/L	19:49:59
2	As 188.979†	370.8	380.5	0.4694 mg/L	0.4694 mg/L	19:50:19
2	B 182.528†	236.0	253.4	0.4955 mg/L	0.4955 mg/L	19:50:19
2	Ba 233.527†	59270.3	62095.1	0.5111 mg/L	0.5111 mg/L	19:49:59
2	Be 313.107†	233579.7	243711.6	0.0499 mg/L	0.0499 mg/L	19:49:59
2	Ca 315.886†	835214.3	870292.0	5.196 mg/L	5.196 mg/L	19:49:53
2	Cd 228.802†	11296.0	11653.2	0.2474 mg/L	0.2474 mg/L	19:50:19
2	Co 228.616†	20740.6	21867.0	0.5086 mg/L	0.5086 mg/L	19:49:59
2	Cr 267.716†	87703.0	89711.6	0.5171 mg/L	0.5171 mg/L	19:49:59
2	Cu 324.752†	129664.3	132603.2	0.5191 mg/L	0.5191 mg/L	19:49:59
2	Fe 234.349†	141950.3	146827.7	2.604 mg/L	2.604 mg/L	19:49:59
2	Fe 238.204†	309525.1	322457.0	2.609 mg/L	2.609 mg/L	19:49:59
2	Mg 279.077†	125858.1	130848.1	4.995 mg/L	4.995 mg/L	19:49:59
2	Mn 257.610†	463906.4	483262.0	0.5150 mg/L	0.5150 mg/L	19:49:53
2	Mo 202.031†	7958.2	8296.8	0.5139 mg/L	0.5139 mg/L	19:50:19
2	Ni 231.604†	17755.0	18517.1	0.5172 mg/L	0.5172 mg/L	19:49:59
2	P 214.914†	7061.8	7317.8	4.772 mg/L	4.772 mg/L	19:50:19
2	Pb 220.353†	4415.6	4773.0	0.4953 mg/L	0.4953 mg/L	19:50:19
2	Sb 206.836†	1055.3	1097.6	0.4764 mg/L	0.4764 mg/L	19:50:19
2	Se 196.026†	805.6	851.8	0.9158 mg/L	0.9158 mg/L	19:50:19
2	Sn 189.927†	2277.0	2163.8	0.5033 mg/L	0.5033 mg/L	19:50:19
2	Sr 407.771†	1237684.8	1286802.9	0.0519 mg/L	0.0519 mg/L	19:49:53
2	Ti 337.279†	441367.1	463366.4	0.5187 mg/L	0.5187 mg/L	19:49:53
2	Tl 190.801†	645.6	690.6	0.5554 mg/L	0.5554 mg/L	19:50:19
2	V 292.402†	126184.4	133415.7	0.5204 mg/L	0.5204 mg/L	19:49:59
2	Zn 213.857†	42759.7	43906.7	0.4932 mg/L	0.4932 mg/L	19:49:59

Mean Data: BF60721-BS1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3694033.5	0.961	mg/L	0.0054				0.57%
Ag 328.068†	74947.4	0.2511	mg/L	0.00153	0.2511	mg/L	0.00153	0.61%
Al 237.313†	21411.2	2.486	mg/L	0.0141	2.486	mg/L	0.0141	0.57%
As 188.979†	379.7	0.4684	mg/L	0.00145	0.4684	mg/L	0.00145	0.31%
B 182.528†	252.4	0.4934	mg/L	0.00291	0.4934	mg/L	0.00291	0.59%
Ba 233.527†	61755.0	0.5083	mg/L	0.00395	0.5083	mg/L	0.00395	0.78%
Be 313.107†	242510.2	0.0497	mg/L	0.00035	0.0497	mg/L	0.00035	0.71%
Ca 315.886†	870938.5	5.200	mg/L	0.0054	5.200	mg/L	0.0054	0.10%
Cd 228.802†	11654.7	0.2474	mg/L	0.00003	0.2474	mg/L	0.00003	0.01%
Co 228.616†	21747.6	0.5058	mg/L	0.00394	0.5058	mg/L	0.00394	0.78%
Cr 267.716†	89140.0	0.5138	mg/L	0.00467	0.5138	mg/L	0.00467	0.91%
Cu 324.752†	131859.2	0.5162	mg/L	0.00412	0.5162	mg/L	0.00412	0.80%
Fe 234.349†	146202.7	2.593	mg/L	0.0156	2.593	mg/L	0.0156	0.60%
Fe 238.204†	320885.8	2.596	mg/L	0.0180	2.596	mg/L	0.0180	0.69%
K 766.490†	52778.9	25.42	mg/L	0.167	25.42	mg/L	0.167	0.66%
Li 670.784†	19496.6	0.5001	mg/L	0.00284	0.5001	mg/L	0.00284	0.57%
Mg 279.077†	130151.8	4.969	mg/L	0.0377	4.969	mg/L	0.0377	0.76%
Mn 257.610†	483442.3	0.5152	mg/L	0.00027	0.5152	mg/L	0.00027	0.05%
Mo 202.031†	8303.7	0.5143	mg/L	0.00060	0.5143	mg/L	0.00060	0.12%
Na 589.592	221116.8	26.42	mg/L	0.069	26.42	mg/L	0.069	0.26%
Ni 231.604†	18355.6	0.5127	mg/L	0.00641	0.5127	mg/L	0.00641	1.25%
P 214.914†	7339.8	4.786	mg/L	0.0202	4.786	mg/L	0.0202	0.42%
Pb 220.353†	4786.6	0.4967	mg/L	0.00200	0.4967	mg/L	0.00200	0.40%
Sb 206.836†	1098.3	0.4768	mg/L	0.00054	0.4768	mg/L	0.00054	0.11%
Se 196.026†	855.7	0.9200	mg/L	0.00594	0.9200	mg/L	0.00594	0.65%
Sn 189.927†	2164.5	0.5035	mg/L	0.00025	0.5035	mg/L	0.00025	0.05%
Sr 407.771†	1285545.1	0.0519	mg/L	0.00007	0.0519	mg/L	0.00007	0.14%
Ti 337.279†	463619.4	0.5190	mg/L	0.00040	0.5190	mg/L	0.00040	0.08%
Tl 190.801†	692.1	0.5566	mg/L	0.00169	0.5566	mg/L	0.00169	0.30%
V 292.402†	132512.3	0.5169	mg/L	0.00489	0.5169	mg/L	0.00489	0.95%
Zn 213.857†	43677.1	0.4906	mg/L	0.00363	0.4906	mg/L	0.00363	0.74%

Sequence No.: 39
Sample ID: CCV
Analyst:
Initial Sample Wt:

Autosampler Location: 3
Date Collected: 6/7/2006 7:51:59 PM
Data Type: Original
Initial Sample Vol:

Dilution: Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	51053.7	52207.5	25.14	mg/L	25.14	mg/L	19:53:34
1	Li 670.784†	19220.0	19750.8	0.5066	mg/L	0.5066	mg/L	19:53:34
1	Na 589.592	228080.8	218957.2	26.16	mg/L	26.16	mg/L	19:53:34
1	Y 371.029	3711871.6	3711871.6	0.966	mg/L			19:53:49
1	Ag 328.068†	69736.8	74566.2	0.2498	mg/L	0.2498	mg/L	19:53:55
1	Al 237.313†	20506.3	21442.7	2.490	mg/L	2.490	mg/L	19:53:55
1	As 188.979†	388.7	395.7	0.4882	mg/L	0.4882	mg/L	19:54:15
1	B 182.528†	242.0	257.5	0.5035	mg/L	0.5035	mg/L	19:54:15
1	Ba 233.527†	58815.3	61079.4	0.5027	mg/L	0.5027	mg/L	19:53:55
1	Be 313.107†	228180.3	235974.0	0.0483	mg/L	0.0483	mg/L	19:53:49
1	Ca 315.886†	800644.0	826817.7	4.936	mg/L	4.936	mg/L	19:53:49
1	Cd 228.802†	11459.3	11718.6	0.2486	mg/L	0.2486	mg/L	19:54:15
1	Co 228.616†	20671.0	21604.4	0.5025	mg/L	0.5025	mg/L	19:53:55
1	Cr 267.716†	85470.9	86594.2	0.4991	mg/L	0.4991	mg/L	19:53:55
1	Cu 324.752†	126734.4	128377.7	0.5025	mg/L	0.5025	mg/L	19:53:55
1	Fe 234.349†	137865.7	141293.6	2.505	mg/L	2.505	mg/L	19:53:55
1	Fe 238.204†	300463.4	310229.0	2.510	mg/L	2.510	mg/L	19:53:55
1	Mg 279.077†	126965.6	130838.8	4.995	mg/L	4.995	mg/L	19:53:55
1	Mn 257.610†	453114.1	467823.6	0.4985	mg/L	0.4985	mg/L	19:53:49
1	Mo 202.031†	7794.9	8054.7	0.4989	mg/L	0.4989	mg/L	19:54:15
1	Ni 231.604†	17564.4	18156.7	0.5071	mg/L	0.5071	mg/L	19:53:55
1	P 214.914†	7316.9	7517.1	4.902	mg/L	4.902	mg/L	19:54:15
1	Pb 220.353†	4478.8	4797.9	0.4978	mg/L	0.4978	mg/L	19:54:15
1	Sb 206.836†	1087.6	1121.4	0.4874	mg/L	0.4874	mg/L	19:54:15
1	Se 196.026†	860.5	901.3	0.9691	mg/L	0.9691	mg/L	19:54:15
1	Sn 189.927†	2183.4	2045.9	0.4756	mg/L	0.4756	mg/L	19:54:15
1	Sr 407.771†	1202587.9	1239085.9	0.0500	mg/L	0.0500	mg/L	19:53:49
1	Ti 337.279†	424085.1	441414.2	0.4941	mg/L	0.4941	mg/L	19:53:49
1	Tl 190.801†	664.6	704.3	0.5659	mg/L	0.5659	mg/L	19:54:15
1	V 292.402†	123718.2	129702.4	0.5059	mg/L	0.5059	mg/L	19:53:55
1	Zn 213.857†	43403.4	44180.5	0.4963	mg/L	0.4963	mg/L	19:53:55
2	K 766.490†	51060.5	51389.6	24.75	mg/L	24.75	mg/L	19:53:39
2	Li 670.784†	19286.0	19507.6	0.5004	mg/L	0.5004	mg/L	19:53:39
2	Na 589.592	230113.5	220989.9	26.41	mg/L	26.41	mg/L	19:53:39
2	Y 371.029	3770700.1	3770700.1	0.981	mg/L			19:54:22
2	Ag 328.068†	69226.9	72919.6	0.2443	mg/L	0.2443	mg/L	19:54:27
2	Al 237.313†	20142.9	20740.9	2.409	mg/L	2.409	mg/L	19:54:27
2	As 188.979†	384.2	384.8	0.4747	mg/L	0.4747	mg/L	19:54:47
2	B 182.528†	241.9	253.5	0.4956	mg/L	0.4956	mg/L	19:54:47
2	Ba 233.527†	57898.1	59194.1	0.4872	mg/L	0.4872	mg/L	19:54:27
2	Be 313.107†	231405.3	235575.0	0.0483	mg/L	0.0483	mg/L	19:54:22
2	Ca 315.886†	813282.4	826766.0	4.935	mg/L	4.935	mg/L	19:54:22
2	Cd 228.802†	11490.5	11565.2	0.2454	mg/L	0.2454	mg/L	19:54:47
2	Co 228.616†	20290.5	20882.5	0.4856	mg/L	0.4856	mg/L	19:54:27
2	Cr 267.716†	84125.5	83841.7	0.4832	mg/L	0.4832	mg/L	19:54:27
2	Cu 324.752†	125014.9	124577.2	0.4877	mg/L	0.4877	mg/L	19:54:27
2	Fe 234.349†	135896.9	137059.0	2.430	mg/L	2.430	mg/L	19:54:27
2	Fe 238.204†	296096.4	300922.6	2.434	mg/L	2.434	mg/L	19:54:27
2	Mg 279.077†	124971.9	126754.9	4.839	mg/L	4.839	mg/L	19:54:27
2	Mn 257.610†	459388.8	466899.4	0.4975	mg/L	0.4975	mg/L	19:54:22
2	Mo 202.031†	7821.6	7955.9	0.4927	mg/L	0.4927	mg/L	19:54:47
2	Ni 231.604†	17085.2	17384.3	0.4854	mg/L	0.4854	mg/L	19:54:27
2	P 214.914†	7338.1	7420.5	4.839	mg/L	4.839	mg/L	19:54:47
2	Pb 220.353†	4511.6	4759.0	0.4938	mg/L	0.4938	mg/L	19:54:47
2	Sb 206.836†	1092.1	1108.4	0.4819	mg/L	0.4819	mg/L	19:54:47
2	Se 196.026†	870.4	897.5	0.9650	mg/L	0.9650	mg/L	19:54:47
2	Sn 189.927†	2193.8	2021.2	0.4698	mg/L	0.4698	mg/L	19:54:47
2	Sr 407.771†	1217958.2	1235324.9	0.0499	mg/L	0.0499	mg/L	19:54:22
2	Ti 337.279†	430226.5	440823.2	0.4934	mg/L	0.4934	mg/L	19:54:22
2	Tl 190.801†	660.3	689.1	0.5543	mg/L	0.5543	mg/L	19:54:47
2	V 292.402†	121774.6	125722.2	0.4905	mg/L	0.4905	mg/L	19:54:27
2	Zn 213.857†	42654.3	42715.6	0.4799	mg/L	0.4799	mg/L	19:54:27

Mean Data: CCV

Mean Corrected Calib Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	3741285.8	0.973	mg/L	0.0108				1.11%
Ag 328.068†	73742.9	0.2471	mg/L	0.00390	0.2471	mg/L	0.00390	1.58%
QC value within limits for Ag 328.068 Recovery = 98.82%								
Al 237.313†	21091.8	2.449	mg/L	0.0576	2.449	mg/L	0.0576	2.35%
QC value within limits for Al 237.313 Recovery = 97.97%								
As 188.979†	390.3	0.4814	mg/L	0.00951	0.4814	mg/L	0.00951	1.98%
QC value within limits for As 188.979 Recovery = 96.29%								
B 182.528†	255.5	0.4996	mg/L	0.00558	0.4996	mg/L	0.00558	1.12%
QC value within limits for B 182.528 Recovery = 99.91%								
Ba 233.527†	60136.8	0.4950	mg/L	0.01096	0.4950	mg/L	0.01096	2.21%
QC value within limits for Ba 233.527 Recovery = 98.99%								
Be 313.107†	235774.5	0.0483	mg/L	0.00006	0.0483	mg/L	0.00006	0.12%
QC value within limits for Be 313.107 Recovery = 96.60%								
Ca 315.886†	826791.9	4.936	mg/L	0.0003	4.936	mg/L	0.0003	0.01%
QC value within limits for Ca 315.886 Recovery = 98.71%								
Cd 228.802†	11641.9	0.2470	mg/L	0.00231	0.2470	mg/L	0.00231	0.93%
QC value within limits for Cd 228.802 Recovery = 98.80%								
Co 228.616†	21243.5	0.4941	mg/L	0.01192	0.4941	mg/L	0.01192	2.41%
QC value within limits for Co 228.616 Recovery = 98.82%								
Cr 267.716†	85218.0	0.4911	mg/L	0.01124	0.4911	mg/L	0.01124	2.29%
QC value within limits for Cr 267.716 Recovery = 98.23%								
Cu 324.752†	126477.5	0.4951	mg/L	0.01053	0.4951	mg/L	0.01053	2.13%
QC value within limits for Cu 324.752 Recovery = 99.02%								
Fe 234.349†	139176.3	2.468	mg/L	0.0531	2.468	mg/L	0.0531	2.15%
QC value within limits for Fe 234.349 Recovery = 98.72%								
Fe 238.204†	305575.8	2.472	mg/L	0.0533	2.472	mg/L	0.0533	2.16%
QC value within limits for Fe 238.204 Recovery = 98.89%								
K 766.490†	51798.5	24.95	mg/L	0.278	24.95	mg/L	0.278	1.12%
QC value within limits for K 766.490 Recovery = 99.78%								
Li 670.784†	19629.2	0.5035	mg/L	0.00445	0.5035	mg/L	0.00445	0.88%
QC value within limits for Li 670.784 Recovery = 100.70%								
Mg 279.077†	128796.9	4.917	mg/L	0.1105	4.917	mg/L	0.1105	2.25%
QC value within limits for Mg 279.077 Recovery = 98.33%								
Mn 257.610†	467361.5	0.4980	mg/L	0.00070	0.4980	mg/L	0.00070	0.14%
QC value within limits for Mn 257.610 Recovery = 99.59%								
Mo 202.031†	8005.3	0.4958	mg/L	0.00433	0.4958	mg/L	0.00433	0.87%
QC value within limits for Mo 202.031 Recovery = 99.16%								
Na 589.592	219973.6	26.29	mg/L	0.173	26.29	mg/L	0.173	0.66%
QC value within limits for Na 589.592 Recovery = 105.14%								
Ni 231.604†	17770.5	0.4963	mg/L	0.01534	0.4963	mg/L	0.01534	3.09%
QC value within limits for Ni 231.604 Recovery = 99.25%								
P 214.914†	7468.8	4.870	mg/L	0.0444	4.870	mg/L	0.0444	0.91%
QC value within limits for P 214.914 Recovery = 97.40%								
Pb 220.353†	4778.5	0.4958	mg/L	0.00287	0.4958	mg/L	0.00287	0.58%
QC value within limits for Pb 220.353 Recovery = 99.16%								
Sb 206.836†	1114.9	0.4846	mg/L	0.00389	0.4846	mg/L	0.00389	0.80%
QC value within limits for Sb 206.836 Recovery = 96.93%								
Se 196.026†	899.4	0.9671	mg/L	0.00287	0.9671	mg/L	0.00287	0.30%
QC value within limits for Se 196.026 Recovery = 96.71%								
Sn 189.927†	2033.6	0.4727	mg/L	0.00410	0.4727	mg/L	0.00410	0.87%
QC value within limits for Sn 189.927 Recovery = 94.55%								
Sr 407.771†	1237205.4	0.0499	mg/L	0.00011	0.0499	mg/L	0.00011	0.22%
QC value within limits for Sr 407.771 Recovery = 99.86%								
Ti 337.279†	441118.7	0.4938	mg/L	0.00047	0.4938	mg/L	0.00047	0.09%
QC value within limits for Ti 337.279 Recovery = 98.75%								
Tl 190.801†	696.7	0.5601	mg/L	0.00819	0.5601	mg/L	0.00819	1.46%
QC value greater than the upper limit for Tl 190.801 Recovery = 112.01%								
V 292.402†	127712.3	0.4982	mg/L	0.01087	0.4982	mg/L	0.01087	2.18%
QC value within limits for V 292.402 Recovery = 99.64%								
Zn 213.857†	43448.1	0.4881	mg/L	0.01162	0.4881	mg/L	0.01162	2.38%
QC value within limits for Zn 213.857 Recovery = 97.63%								
QC Failed. Continue with analysis.								

Sequence No.: 40
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/7/2006 7:56:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1047.9	405.2	0.2048	mg/L	0.2048	mg/L	19:58:02
1	Li 670.784†	187.4	37.8	-0.0033	mg/L	-0.0033	mg/L	19:58:02
1	Na 589.592	18398.0	9274.4	0.9254	mg/L	0.9254	mg/L	19:58:02
1	Y 371.029	3767683.1	3767683.1	0.980	mg/L			19:58:16
1	Ag 328.068†	-2266.4	34.1	0.0000	mg/L	0.0000	mg/L	19:58:21
1	Al 237.313†	-185.0	17.6	0.0073	mg/L	0.0073	mg/L	19:58:41
1	As 188.979†	6.6	-0.2	-0.0001	mg/L	-0.0001	mg/L	19:58:41
1	B 182.528†	4.6	11.6	0.0230	mg/L	0.0230	mg/L	19:58:41
1	Ba 233.527†	-176.6	-10.2	0.0003	mg/L	0.0003	mg/L	19:58:41
1	Be 313.107†	640.8	323.4	0.0002	mg/L	0.0002	mg/L	19:58:21
1	Ca 315.886†	2475.0	192.8	-0.0125	mg/L	-0.0125	mg/L	19:58:21
1	Cd 228.802†	131.5	-14.6	0.0000	mg/L	0.0000	mg/L	19:58:41
1	Co 228.616†	-183.5	10.3	-0.0009	mg/L	-0.0009	mg/L	19:58:41
1	Cr 267.716†	1870.5	-11.3	-0.0007	mg/L	-0.0007	mg/L	19:58:21
1	Cu 324.752†	2207.1	-617.0	-0.0030	mg/L	-0.0030	mg/L	19:58:21
1	Fe 234.349†	1555.8	106.6	-0.0001	mg/L	-0.0001	mg/L	19:58:41
1	Fe 238.204†	1062.4	151.9	-0.0026	mg/L	-0.0026	mg/L	19:58:41
1	Mg 279.077†	703.2	70.2	-0.0120	mg/L	-0.0120	mg/L	19:58:21
1	Mn 257.610†	1313.8	-82.7	-0.0029	mg/L	-0.0029	mg/L	19:58:21
1	Mo 202.031†	29.5	12.3	0.0002	mg/L	0.0002	mg/L	19:58:41
1	Ni 231.604†	35.0	2.6	-0.0029	mg/L	-0.0029	mg/L	19:58:41
1	P 214.914†	60.1	1.0	0.0211	mg/L	0.0211	mg/L	19:58:41
1	Pb 220.353†	-151.4	5.2	-0.0008	mg/L	-0.0008	mg/L	19:58:41
1	Sb 206.836†	1.2	-3.6	-0.0025	mg/L	-0.0025	mg/L	19:58:41
1	Se 196.026†	-12.1	-2.2	-0.0054	mg/L	-0.0054	mg/L	19:58:41
1	Sn 189.927†	96.7	-116.6	-0.0322	mg/L	-0.0322	mg/L	19:58:41
1	Sr 407.771†	6218.6	25.6	-0.0003	mg/L	-0.0003	mg/L	19:58:16
1	Ti 337.279†	-2191.8	-6.2	-0.0009	mg/L	-0.0009	mg/L	19:58:21
1	Tl 190.801†	-0.2	15.9	0.0306	mg/L	0.0306	mg/L	19:58:41
1	V 292.402†	-1476.9	72.5	0.0007	mg/L	0.0007	mg/L	19:58:21
1	Zn 213.857†	684.1	-70.3	-0.0011	mg/L	-0.0011	mg/L	19:58:41
2	K 766.490†	1084.8	423.7	0.2137	mg/L	0.2137	mg/L	19:58:08
2	Li 670.784†	209.5	56.6	-0.0028	mg/L	-0.0028	mg/L	19:58:08
2	Na 589.592	18610.7	9487.1	0.9510	mg/L	0.9510	mg/L	19:58:08
2	Y 371.029	3834319.7	3834319.7	0.997	mg/L			19:58:47
2	Ag 328.068†	-2169.6	171.4	0.0005	mg/L	0.0005	mg/L	19:58:52
2	Al 237.313†	-181.1	24.8	0.0081	mg/L	0.0081	mg/L	19:59:13
2	As 188.979†	5.4	-1.5	-0.0017	mg/L	-0.0017	mg/L	19:59:13
2	B 182.528†	1.6	8.5	0.0169	mg/L	0.0169	mg/L	19:59:13
2	Ba 233.527†	-152.2	17.5	0.0005	mg/L	0.0005	mg/L	19:59:13
2	Be 313.107†	310.6	-19.0	0.0001	mg/L	0.0001	mg/L	19:58:52
2	Ca 315.886†	2542.8	216.9	-0.0123	mg/L	-0.0123	mg/L	19:58:52
2	Cd 228.802†	135.8	-12.6	0.0000	mg/L	0.0000	mg/L	19:59:13
2	Co 228.616†	-191.3	5.6	-0.0010	mg/L	-0.0010	mg/L	19:59:13
2	Cr 267.716†	1879.1	-35.9	-0.0009	mg/L	-0.0009	mg/L	19:58:52
2	Cu 324.752†	2110.2	-753.3	-0.0036	mg/L	-0.0036	mg/L	19:58:52
2	Fe 234.349†	1550.5	73.7	-0.0007	mg/L	-0.0007	mg/L	19:59:13
2	Fe 238.204†	1045.7	116.2	-0.0029	mg/L	-0.0029	mg/L	19:59:13
2	Mg 279.077†	665.3	19.7	-0.0139	mg/L	-0.0139	mg/L	19:58:52
2	Mn 257.610†	1291.5	-128.4	-0.0029	mg/L	-0.0029	mg/L	19:58:52
2	Mo 202.031†	46.7	29.0	0.0012	mg/L	0.0012	mg/L	19:59:13
2	Ni 231.604†	37.9	4.9	-0.0028	mg/L	-0.0028	mg/L	19:59:13
2	P 214.914†	64.9	4.8	0.0235	mg/L	0.0235	mg/L	19:59:13
2	Pb 220.353†	-153.4	5.8	-0.0007	mg/L	-0.0007	mg/L	19:59:13
2	Sb 206.836†	16.1	11.2	0.0041	mg/L	0.0041	mg/L	19:59:13
2	Se 196.026†	-8.6	1.5	-0.0014	mg/L	-0.0014	mg/L	19:59:13
2	Sn 189.927†	92.3	-122.7	-0.0336	mg/L	-0.0336	mg/L	19:59:13
2	Sr 407.771†	5983.3	-320.5	-0.0004	mg/L	-0.0004	mg/L	19:58:47
2	Ti 337.279†	-2126.2	98.5	-0.0008	mg/L	-0.0008	mg/L	19:58:52
2	Tl 190.801†	-2.4	13.6	0.0288	mg/L	0.0288	mg/L	19:59:13
2	V 292.402†	-1509.9	65.7	0.0007	mg/L	0.0007	mg/L	19:58:52
2	Zn 213.857†	672.9	-93.6	-0.0014	mg/L	-0.0014	mg/L	19:59:13

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	Sample RSD
Y 371.029	3801001.4	0.989	mg/L	0.0123				1.24%
Ag 328.068†	102.7	0.0002	mg/L	0.00033	0.0002	mg/L	0.00033	133.38%

QC value within limits for Ag 328.068 Recovery = Not calculated

Al 237.313†	21.2	0.0077 mg/L	0.00059	0.0077 mg/L	0.00059	7.74%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	-0.8	-0.0009 mg/L	0.00113	-0.0009 mg/L	0.00113	127.90%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	10.0	0.0200 mg/L	0.00429	0.0200 mg/L	0.00429	21.51%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	3.6	0.0004 mg/L	0.00016	0.0004 mg/L	0.00016	42.33%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	152.2	0.0002 mg/L	0.00005	0.0002 mg/L	0.00005	28.58%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.886†	204.8	-0.0124 mg/L	0.00010	-0.0124 mg/L	0.00010	0.81%
QC value within limits for Ca 315.886 Recovery = Not calculated						
Cd 228.802†	-13.6	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	303.35%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	7.9	-0.0010 mg/L	0.00008	-0.0010 mg/L	0.00008	7.71%
QC value within limits for Co 228.616 Recovery = Not calculated						
Cr 267.716†	-23.6	-0.0008 mg/L	0.00010	-0.0008 mg/L	0.00010	12.43%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-685.2	-0.0033 mg/L	0.00038	-0.0033 mg/L	0.00038	11.39%
QC value less than the lower limit for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	90.2	-0.0004 mg/L	0.00041	-0.0004 mg/L	0.00041	93.84%
QC value within limits for Fe 234.349 Recovery = Not calculated						
Fe 238.204†	134.1	-0.0028 mg/L	0.00020	-0.0028 mg/L	0.00020	7.38%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	414.4	0.2093 mg/L	0.00628	0.2093 mg/L	0.00628	3.00%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li 670.784†	47.2	-0.0031 mg/L	0.00034	-0.0031 mg/L	0.00034	11.15%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	44.9	-0.0129 mg/L	0.00137	-0.0129 mg/L	0.00137	10.56%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	-105.5	-0.0029 mg/L	0.00003	-0.0029 mg/L	0.00003	1.19%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	20.7	0.0007 mg/L	0.00073	0.0007 mg/L	0.00073	109.42%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	9380.8	0.9382 mg/L	0.01811	0.9382 mg/L	0.01811	1.93%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	3.7	-0.0029 mg/L	0.00004	-0.0029 mg/L	0.00004	1.57%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated						
P 214.914†	2.9	0.0223 mg/L	0.00173	0.0223 mg/L	0.00173	7.77%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	5.5	-0.0007 mg/L	0.00005	-0.0007 mg/L	0.00005	6.68%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	3.8	0.0008 mg/L	0.00468	0.0008 mg/L	0.00468	555.79%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	-0.3	-0.0034 mg/L	0.00280	-0.0034 mg/L	0.00280	81.73%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-119.7	-0.0329 mg/L	0.00102	-0.0329 mg/L	0.00102	3.11%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	-147.4	-0.0003 mg/L	0.00001	-0.0003 mg/L	0.00001	2.89%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	46.1	-0.0009 mg/L	0.00008	-0.0009 mg/L	0.00008	9.58%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	14.7	0.0297 mg/L	0.00124	0.0297 mg/L	0.00124	4.17%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	69.1	0.0007 mg/L	0.00001	0.0007 mg/L	0.00001	0.93%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	-82.0	-0.0012 mg/L	0.00019	-0.0012 mg/L	0.00019	15.27%
QC value within limits for Zn 213.857 Recovery = Not calculated						

QC Failed. Continue with analysis.

Sequence No.: 41
Sample ID: BF60721-BSD1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 6/7/2006 8:00:50 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60721-BSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time

1	K 766.490†	49545.9	51257.0	24.68 mg/L	24.68 mg/L	20:02:29
1	Li 670.784†	18295.8	19019.4	0.4877 mg/L	0.4877 mg/L	20:02:29
1	Na 589.592	219336.8	210213.3	25.11 mg/L	25.11 mg/L	20:02:29
1	Y 371.029	3668187.5	3668187.5	0.954 mg/L		20:02:44
1	Ag 328.068†	67506.9	73089.4	0.2449 mg/L	0.2449 mg/L	20:02:49
1	Al 237.313†	19792.5	20947.6	2.432 mg/L	2.432 mg/L	20:02:49
1	As 188.979†	360.5	370.9	0.4575 mg/L	0.4575 mg/L	20:03:09
1	B 182.528†	223.3	240.8	0.4709 mg/L	0.4709 mg/L	20:03:09
1	Ba 233.527†	57069.3	59975.1	0.4936 mg/L	0.4936 mg/L	20:02:49
1	Be 313.107†	225907.3	236406.2	0.0484 mg/L	0.0484 mg/L	20:02:49
1	Ca 315.886†	816722.3	853541.0	5.096 mg/L	5.096 mg/L	20:02:44
1	Cd 228.802†	10974.1	11351.4	0.2410 mg/L	0.2410 mg/L	20:03:09
1	Co 228.616†	20083.4	21243.6	0.4940 mg/L	0.4940 mg/L	20:02:49
1	Cr 267.716†	84989.7	87144.1	0.5023 mg/L	0.5023 mg/L	20:02:49
1	Cu 324.752†	127193.6	130421.9	0.5106 mg/L	0.5106 mg/L	20:02:49
1	Fe 234.349†	138378.3	143531.1	2.545 mg/L	2.545 mg/L	20:02:49
1	Fe 238.204†	301914.1	315454.8	2.552 mg/L	2.552 mg/L	20:02:49
1	Mg 279.077†	121348.9	126518.7	4.830 mg/L	4.830 mg/L	20:02:49
1	Mn 257.610†	452637.1	472912.0	0.5039 mg/L	0.5039 mg/L	20:02:44
1	Mo 202.031†	7694.8	8045.9	0.4983 mg/L	0.4983 mg/L	20:03:09
1	Ni 231.604†	17111.2	17898.3	0.4998 mg/L	0.4998 mg/L	20:02:49
1	P 214.914†	6885.0	7154.8	4.666 mg/L	4.666 mg/L	20:03:09
1	Pb 220.353†	4279.0	4643.7	0.4818 mg/L	0.4818 mg/L	20:03:09
1	Sb 206.836†	1021.3	1065.3	0.4623 mg/L	0.4623 mg/L	20:03:09
1	Se 196.026†	798.1	846.5	0.9100 mg/L	0.9100 mg/L	20:03:09
1	Sn 189.927†	2210.6	2101.3	0.4886 mg/L	0.4886 mg/L	20:03:09
1	Sr 407.771†	1210022.5	1261708.2	0.0509 mg/L	0.0509 mg/L	20:02:44
1	Ti 337.279†	431228.1	454129.9	0.5084 mg/L	0.5084 mg/L	20:02:44
1	Tl 190.801†	625.2	671.2	0.5404 mg/L	0.5404 mg/L	20:03:09
1	V 292.402†	122341.2	129785.3	0.5062 mg/L	0.5062 mg/L	20:02:49
1	Zn 213.857†	41318.1	42530.5	0.4778 mg/L	0.4778 mg/L	20:02:49
2	K 766.490†	49962.1	51950.3	25.02 mg/L	25.02 mg/L	20:02:34
2	Li 670.784†	18429.1	19253.9	0.4938 mg/L	0.4938 mg/L	20:02:34
2	Na 589.592	219326.1	210202.6	25.11 mg/L	25.11 mg/L	20:02:34
2	Y 371.029	3650264.4	3650264.4	0.950 mg/L		20:03:16
2	Ag 328.068†	67812.6	73758.7	0.2471 mg/L	0.2471 mg/L	20:03:22
2	Al 237.313†	19889.8	21151.9	2.456 mg/L	2.456 mg/L	20:03:22
2	As 188.979†	365.2	377.7	0.4658 mg/L	0.4658 mg/L	20:03:42
2	B 182.528†	223.6	242.3	0.4738 mg/L	0.4738 mg/L	20:03:42
2	Ba 233.527†	57418.0	60635.9	0.4991 mg/L	0.4991 mg/L	20:03:22
2	Be 313.107†	226449.9	238140.0	0.0488 mg/L	0.0488 mg/L	20:03:22
2	Ca 315.886†	811065.3	851786.2	5.085 mg/L	5.085 mg/L	20:03:16
2	Cd 228.802†	11012.1	11447.9	0.2430 mg/L	0.2430 mg/L	20:03:42
2	Co 228.616†	20097.2	21361.5	0.4968 mg/L	0.4968 mg/L	20:03:22
2	Cr 267.716†	85045.7	87640.4	0.5051 mg/L	0.5051 mg/L	20:03:22
2	Cu 324.752†	127535.6	131436.5	0.5145 mg/L	0.5145 mg/L	20:03:22
2	Fe 234.349†	138720.8	144603.7	2.564 mg/L	2.564 mg/L	20:03:22
2	Fe 238.204†	302830.1	317972.9	2.573 mg/L	2.573 mg/L	20:03:22
2	Mg 279.077†	121758.4	127574.4	4.870 mg/L	4.870 mg/L	20:03:22
2	Mn 257.610†	449856.0	472312.3	0.5033 mg/L	0.5033 mg/L	20:03:16
2	Mo 202.031†	7733.8	8126.5	0.5033 mg/L	0.5033 mg/L	20:03:42
2	Ni 231.604†	17143.1	18020.0	0.5033 mg/L	0.5033 mg/L	20:03:22
2	P 214.914†	6895.0	7200.7	4.696 mg/L	4.696 mg/L	20:03:42
2	Pb 220.353†	4309.1	4697.4	0.4874 mg/L	0.4874 mg/L	20:03:42
2	Sb 206.836†	1034.9	1085.0	0.4710 mg/L	0.4710 mg/L	20:03:42
2	Se 196.026†	791.7	843.9	0.9072 mg/L	0.9072 mg/L	20:03:42
2	Sn 189.927†	2219.0	2121.6	0.4934 mg/L	0.4934 mg/L	20:03:42
2	Sr 407.771†	1206928.8	1264676.4	0.0510 mg/L	0.0510 mg/L	20:03:16
2	Ti 337.279†	428989.1	453990.8	0.5082 mg/L	0.5082 mg/L	20:03:16
2	Tl 190.801†	624.1	673.2	0.5419 mg/L	0.5419 mg/L	20:03:42
2	V 292.402†	122410.2	130487.4	0.5090 mg/L	0.5090 mg/L	20:03:22
2	Zn 213.857†	41351.1	42777.9	0.4805 mg/L	0.4805 mg/L	20:03:22

Mean Data: BF60721-BSD1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3659226.0	0.952	mg/L	0.0033				0.35%
Ag 328.068†	73424.1	0.2460	mg/L	0.00159	0.2460	mg/L	0.00159	0.64%
Al 237.313†	21049.8	2.444	mg/L	0.0168	2.444	mg/L	0.0168	0.69%
As 188.979†	374.3	0.4617	mg/L	0.00592	0.4617	mg/L	0.00592	1.28%
B 182.528†	241.6	0.4723	mg/L	0.00199	0.4723	mg/L	0.00199	0.42%

Ba 233.527†	60305.5	0.4964 mg/L	0.00384	0.4964 mg/L	0.00384	0.77%
Be 313.107†	237273.1	0.0486 mg/L	0.00025	0.0486 mg/L	0.00025	0.52%
Ca 315.886†	852663.6	5.090 mg/L	0.0074	5.090 mg/L	0.0074	0.15%
Cd 228.802†	11399.7	0.2420 mg/L	0.00142	0.2420 mg/L	0.00142	0.59%
Co 228.616†	21302.5	0.4954 mg/L	0.00195	0.4954 mg/L	0.00195	0.39%
Cr 267.716†	87392.2	0.5037 mg/L	0.00203	0.5037 mg/L	0.00203	0.40%
Cu 324.752†	130929.2	0.5126 mg/L	0.00281	0.5126 mg/L	0.00281	0.55%
Fe 234.349†	144067.4	2.555 mg/L	0.0135	2.555 mg/L	0.0135	0.53%
Fe 238.204†	316713.9	2.562 mg/L	0.0144	2.562 mg/L	0.0144	0.56%
K 766.490†	51603.7	24.85 mg/L	0.236	24.85 mg/L	0.236	0.95%
Li 670.784†	19136.7	0.4908 mg/L	0.00429	0.4908 mg/L	0.00429	0.87%
Mg 279.077†	127046.5	4.850 mg/L	0.0285	4.850 mg/L	0.0285	0.59%
Mn 257.610†	472612.1	0.5036 mg/L	0.00045	0.5036 mg/L	0.00045	0.09%
Mo 202.031†	8086.2	0.5008 mg/L	0.00354	0.5008 mg/L	0.00354	0.71%
Na 589.592	210207.9	25.11 mg/L	0.001	25.11 mg/L	0.001	0.00%
Ni 231.604†	17959.2	0.5016 mg/L	0.00242	0.5016 mg/L	0.00242	0.48%
P 214.914†	7177.7	4.681 mg/L	0.0211	4.681 mg/L	0.0211	0.45%
Pb 220.353†	4670.6	0.4846 mg/L	0.00395	0.4846 mg/L	0.00395	0.82%
Sb 206.836†	1075.1	0.4667 mg/L	0.00614	0.4667 mg/L	0.00614	1.31%
Se 196.026†	845.2	0.9086 mg/L	0.00200	0.9086 mg/L	0.00200	0.22%
Sn 189.927†	2111.4	0.4910 mg/L	0.00336	0.4910 mg/L	0.00336	0.68%
Sr 407.771†	1263192.3	0.0510 mg/L	0.00009	0.0510 mg/L	0.00009	0.17%
Ti 337.279†	454060.3	0.5083 mg/L	0.00011	0.5083 mg/L	0.00011	0.02%
Tl 190.801†	672.2	0.5411 mg/L	0.00106	0.5411 mg/L	0.00106	0.20%
V 292.402†	130136.4	0.5076 mg/L	0.00196	0.5076 mg/L	0.00196	0.39%
Zn 213.857†	42654.2	0.4791 mg/L	0.00196	0.4791 mg/L	0.00196	0.41%

Duplicate Check: BF60721-BSD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	25.42	24.85	0.236	mg/L	2.3
Li 670.784	0.5001	0.4908	0.004	mg/L	1.9
Na 589.592	26.42	25.11	0.001	mg/L	5.1
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.2511	0.2460	0.002	mg/L	2.1
Al 237.313	2.486	2.444	0.017	mg/L	1.7
As 188.979	0.4684	0.4617	0.006	mg/L	1.4
B 182.528	0.4934	0.4723	0.002	mg/L	4.4
Ba 233.527	0.5083	0.4964	0.004	mg/L	2.4
Be 313.107	0.0497	0.0486	0.000	mg/L	2.2
Ca 315.886	5.200	5.090	0.007	mg/L	2.1
Cd 228.802	0.2474	0.2420	0.001	mg/L	2.2
Co 228.616	0.5058	0.4954	0.002	mg/L	2.1
Cr 267.716	0.5138	0.5037	0.002	mg/L	2.0
Cu 324.752	0.5162	0.5126	0.003	mg/L	0.7
Fe 234.349	2.593	2.555	0.013	mg/L	1.5
Fe 238.204	2.596	2.562	0.014	mg/L	1.3
Mg 279.077	4.969	4.850	0.029	mg/L	2.4
Mn 257.610	0.5152	0.5036	0.000	mg/L	2.3
Mo 202.031	0.5143	0.5008	0.004	mg/L	2.7
Ni 231.604	0.5127	0.5016	0.002	mg/L	2.2
P 214.914	4.786	4.681	0.021	mg/L	2.2
Pb 220.353	0.4967	0.4846	0.004	mg/L	2.5
Sb 206.836	0.4768	0.4667	0.006	mg/L	2.1
Se 196.026	0.9200	0.9086	0.002	mg/L	1.2
Sn 189.927	0.5035	0.4910	0.003	mg/L	2.5
Sr 407.771	0.0519	0.0510	0.000	mg/L	1.8
Ti 337.279	0.5190	0.5083	0.000	mg/L	2.1
Tl 190.801	0.5566	0.5411	0.001	mg/L	2.8
V 292.402	0.5169	0.5076	0.002	mg/L	1.8
Zn 213.857	0.4906	0.4791	0.002	mg/L	2.4

Sequence No.: 42
Sample ID: BF60721-SRM1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 6/7/2006 8:05:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60721-SRM1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	41448.8	40641.6	19.57	mg/L	19.57	mg/L	20:06:55
1	Li 670.784†	2120.7	1959.9	0.0464	mg/L	0.0464	mg/L	20:06:55
1	Na 589.592	106680.0	97556.5	11.55	mg/L	11.55	mg/L	20:06:55
1	Y 371.029	3857357.3	3857357.3	1.00	mg/L			20:07:24
1	Ag 328.068†	249292.8	250777.9	0.8427	mg/L	0.8427	mg/L	20:07:29
1	Al 237.313†	391756.2	390608.9	45.06	mg/L	45.06	mg/L	20:07:29
1	As 188.979†	997.6	987.2	1.217	mg/L	1.217	mg/L	20:07:50
1	B 182.528†	412.8	418.3	0.8175	mg/L	0.8175	mg/L	20:07:50
1	Ba 233.527†	376475.4	375344.6	3.087	mg/L	3.087	mg/L	20:07:29
1	Be 313.107†	2707084.9	2697400.7	0.5551	mg/L	0.5551	mg/L	20:07:24
1	Ca 315.886†	5853273.6	5830716.5	34.88	mg/L	34.88	mg/L	20:07:24
1	Cd 228.802†	37846.4	37566.9	0.7932	mg/L	0.7932	mg/L	20:07:50
1	Co 228.616†	21880.3	22002.1	0.5092	mg/L	0.5092	mg/L	20:07:50
1	Cr 267.716†	268939.6	266090.6	1.540	mg/L	1.540	mg/L	20:07:29
1	Cu 324.752†	164154.4	160718.3	0.6452	mg/L	0.6452	mg/L	20:07:29
1	Fe 234.349†	4853678.7	4835427.2	85.99	mg/L	85.99	mg/L	20:07:24
1	Fe 238.204†	10071249.1	10035517.8	81.29	mg/L	81.29	mg/L	20:07:15
1	Mg 279.077†	456923.3	454697.2	17.36	mg/L	17.36	mg/L	20:07:29
1	Mn 257.610†	1670100.4	1662906.6	1.779	mg/L	1.779	mg/L	20:07:24
1	Mo 202.031†	3946.6	3915.2	0.2422	mg/L	0.2422	mg/L	20:07:50
1	Ni 231.604†	26461.8	26337.3	0.7366	mg/L	0.7366	mg/L	20:07:29
1	P 214.914†	13659.0	13551.5	8.820	mg/L	8.820	mg/L	20:07:50
1	Pb 220.353†	5487.8	5628.5	0.5883	mg/L	0.5883	mg/L	20:07:50
1	Sb 206.836†	1688.3	1677.5	0.7166	mg/L	0.7166	mg/L	20:07:50
1	Se 196.026†	565.3	573.5	0.6155	mg/L	0.6155	mg/L	20:07:50
1	Sn 189.927†	3834.2	3605.7	0.8460	mg/L	0.8460	mg/L	20:07:50
1	Sr 407.771†	7295543.0	7264015.8	0.2948	mg/L	0.2948	mg/L	20:07:15
1	Ti 337.279†	1508382.6	1505400.7	1.687	mg/L	1.687	mg/L	20:07:24
1	Tl 190.801†	958.7	971.4	0.7893	mg/L	0.7893	mg/L	20:07:50
1	V 292.402†	320294.6	320767.3	1.223	mg/L	1.223	mg/L	20:07:29
1	Zn 213.857†	306053.4	304227.6	3.427	mg/L	3.427	mg/L	20:07:29
2	K 766.490†	41583.3	40994.5	19.74	mg/L	19.74	mg/L	20:07:00
2	Li 670.784†	2177.8	2028.3	0.0482	mg/L	0.0482	mg/L	20:07:00
2	Na 589.592	107334.3	98210.8	11.63	mg/L	11.63	mg/L	20:07:00
2	Y 371.029	3837098.0	3837098.0	0.998	mg/L			20:08:10
2	Ag 328.068†	247515.0	250308.6	0.8411	mg/L	0.8411	mg/L	20:08:16
2	Al 237.313†	390437.5	391349.1	45.14	mg/L	45.14	mg/L	20:08:16
2	As 188.979†	1017.0	1012.0	1.248	mg/L	1.248	mg/L	20:08:36
2	B 182.528†	421.9	429.5	0.8395	mg/L	0.8395	mg/L	20:08:36
2	Ba 233.527†	375876.5	376725.5	3.099	mg/L	3.099	mg/L	20:08:16
2	Be 313.107†	2683138.5	2687654.7	0.5530	mg/L	0.5530	mg/L	20:08:10
2	Ca 315.886†	5800231.2	5808375.9	34.75	mg/L	34.75	mg/L	20:08:10
2	Cd 228.802†	37740.9	37660.4	0.7950	mg/L	0.7950	mg/L	20:08:36
2	Co 228.616†	21734.9	21971.6	0.5085	mg/L	0.5085	mg/L	20:08:36
2	Cr 267.716†	267732.0	266295.9	1.541	mg/L	1.541	mg/L	20:08:16
2	Cu 324.752†	163569.5	160996.1	0.6462	mg/L	0.6462	mg/L	20:08:16
2	Fe 234.349†	4803949.8	4811146.6	85.56	mg/L	85.56	mg/L	20:08:10
2	Fe 238.204†	10066317.9	10083568.8	81.68	mg/L	81.68	mg/L	20:08:01
2	Mg 279.077†	454614.8	454788.7	17.37	mg/L	17.37	mg/L	20:08:16
2	Mn 257.610†	1655289.3	1656856.2	1.772	mg/L	1.772	mg/L	20:08:10
2	Mo 202.031†	3958.4	3947.8	0.2442	mg/L	0.2442	mg/L	20:08:36
2	Ni 231.604†	26838.2	26853.5	0.7510	mg/L	0.7510	mg/L	20:08:16
2	P 214.914†	13602.4	13566.6	8.830	mg/L	8.830	mg/L	20:08:36
2	Pb 220.353†	5433.3	5602.7	0.5856	mg/L	0.5856	mg/L	20:08:36
2	Sb 206.836†	1664.4	1662.5	0.7099	mg/L	0.7099	mg/L	20:08:36
2	Se 196.026†	568.2	579.4	0.6219	mg/L	0.6219	mg/L	20:08:36
2	Sn 189.927†	3795.3	3586.9	0.8416	mg/L	0.8416	mg/L	20:08:36
2	Sr 407.771†	7302819.1	7309691.4	0.2966	mg/L	0.2966	mg/L	20:08:01
2	Ti 337.279†	1497877.3	1502813.0	1.684	mg/L	1.684	mg/L	20:08:10
2	Tl 190.801†	942.9	960.7	0.7809	mg/L	0.7809	mg/L	20:08:36
2	V 292.402†	319269.8	321425.9	1.225	mg/L	1.225	mg/L	20:08:16
2	Zn 213.857†	305272.4	305055.6	3.437	mg/L	3.437	mg/L	20:08:16

Mean Data: BF60721-SRM1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3847227.6	1.00	mg/L	0.004				0.37%
Ag 328.068†	250543.2	0.8419	mg/L	0.00112	0.8419	mg/L	0.00112	0.13%
Al 237.313†	390979.0	45.10	mg/L	0.062	45.10	mg/L	0.062	0.14%

As 188.979†	999.6	1.233 mg/L	0.0216	1.233 mg/L	0.0216	1.75%
B 182.528†	423.9	0.8285 mg/L	0.01553	0.8285 mg/L	0.01553	1.87%
Ba 233.527†	376035.1	3.093 mg/L	0.0080	3.093 mg/L	0.0080	0.26%
Be 313.107†	2692527.7	0.5540 mg/L	0.00142	0.5540 mg/L	0.00142	0.26%
Ca 315.886†	5819546.2	34.81 mg/L	0.095	34.81 mg/L	0.095	0.27%
Cd 228.802†	37613.6	0.7941 mg/L	0.00128	0.7941 mg/L	0.00128	0.16%
Co 228.616†	21986.9	0.5089 mg/L	0.00050	0.5089 mg/L	0.00050	0.10%
Cr 267.716†	266193.3	1.540 mg/L	0.0008	1.540 mg/L	0.0008	0.05%
Cu 324.752†	160857.2	0.6457 mg/L	0.00071	0.6457 mg/L	0.00071	0.11%
Fe 234.349†	4823286.9	85.78 mg/L	0.305	85.78 mg/L	0.305	0.36%
Fe 238.204†	10059543.3	81.49 mg/L	0.275	81.49 mg/L	0.275	0.34%
K 766.490†	40818.1	19.66 mg/L	0.120	19.66 mg/L	0.120	0.61%
Li 670.784†	1994.1	0.0473 mg/L	0.00125	0.0473 mg/L	0.00125	2.65%
Mg 279.077†	454742.9	17.37 mg/L	0.003	17.37 mg/L	0.003	0.01%
Mn 257.610†	1659881.4	1.776 mg/L	0.0046	1.776 mg/L	0.0046	0.26%
Mo 202.031†	3931.5	0.2432 mg/L	0.00143	0.2432 mg/L	0.00143	0.59%
Na 589.592	97883.6	11.59 mg/L	0.056	11.59 mg/L	0.056	0.48%
Ni 231.604†	26595.4	0.7438 mg/L	0.01024	0.7438 mg/L	0.01024	1.38%
P 214.914†	13559.1	8.825 mg/L	0.0069	8.825 mg/L	0.0069	0.08%
Pb 220.353†	5615.6	0.5870 mg/L	0.00186	0.5870 mg/L	0.00186	0.32%
Sb 206.836†	1670.0	0.7132 mg/L	0.00475	0.7132 mg/L	0.00475	0.67%
Se 196.026†	576.4	0.6187 mg/L	0.00450	0.6187 mg/L	0.00450	0.73%
Sn 189.927†	3596.3	0.8438 mg/L	0.00312	0.8438 mg/L	0.00312	0.37%
Sr 407.771†	7286853.6	0.2957 mg/L	0.00131	0.2957 mg/L	0.00131	0.44%
Ti 337.279†	1504106.8	1.686 mg/L	0.0021	1.686 mg/L	0.0021	0.12%
Tl 190.801†	966.0	0.7851 mg/L	0.00595	0.7851 mg/L	0.00595	0.76%
V 292.402†	321096.6	1.224 mg/L	0.0019	1.224 mg/L	0.0019	0.15%
Zn 213.857†	304641.6	3.432 mg/L	0.0066	3.432 mg/L	0.0066	0.19%

Sequence No.: 43
Sample ID: 0606078-01X5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 6/7/2006 8:10:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606078-01X5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	2558.1	1920.2	0.9341	mg/L	0.9341	mg/L	20:11:45
1	Li 670.784†	583.3	435.8	0.0070	mg/L	0.0070	mg/L	20:11:45
1	Na 589.592	23044.4	13920.8	1.485	mg/L	1.485	mg/L	20:11:45
1	Y 371.029	3805347.2	3805347.2	0.990	mg/L			20:12:02
1	Ag 328.068†	109926.1	113390.0	0.3806	mg/L	0.3806	mg/L	20:12:07
1	Al 237.313†	83584.0	84639.9	9.705	mg/L	9.705	mg/L	20:12:07
1	As 188.979†	18.3	11.6	0.0140	mg/L	0.0140	mg/L	20:12:27
1	B 182.528†	7.2	14.2	0.0281	mg/L	0.0281	mg/L	20:12:27
1	Ba 233.527†	75190.9	76125.3	0.6266	mg/L	0.6266	mg/L	20:12:07
1	Be 313.107†	3280.7	2983.7	0.0005	mg/L	0.0005	mg/L	20:12:07
1	Ca 315.886†	361982.4	363329.7	2.160	mg/L	2.160	mg/L	20:12:07
1	Cd 228.802†	458.2	314.1	0.0071	mg/L	0.0071	mg/L	20:12:27
1	Co 228.616†	137.4	336.2	0.0057	mg/L	0.0057	mg/L	20:12:27
1	Cr 267.716†	68642.8	67420.8	0.3905	mg/L	0.3905	mg/L	20:12:07
1	Cu 324.752†	2938949.1	2965955.0	11.61	mg/L	11.61	mg/L	20:12:02
1	Fe 234.349†	1818839.2	1835847.2	32.65	mg/L	32.65	mg/L	20:12:02
1	Fe 238.204†	3934171.0	3973230.2	32.18	mg/L	32.18	mg/L	20:12:02
1	Mg 279.077†	65020.2	65033.8	2.464	mg/L	2.464	mg/L	20:12:07
1	Mn 257.610†	351645.3	353796.7	0.3762	mg/L	0.3762	mg/L	20:12:07
1	Mo 202.031†	201.5	185.8	0.0109	mg/L	0.0109	mg/L	20:12:27
1	Ni 231.604†	3935.6	3942.5	0.1077	mg/L	0.1077	mg/L	20:12:07
1	P 214.914†	5218.0	5210.8	3.404	mg/L	3.404	mg/L	20:12:07
1	Pb 220.353†	14983.8	15295.8	1.582	mg/L	1.582	mg/L	20:12:07
1	Sb 206.836†	16.3	11.5	-0.0040	mg/L	-0.0040	mg/L	20:12:27
1	Se 196.026†	-7.6	2.4	-0.0004	mg/L	-0.0004	mg/L	20:12:27
1	Sn 189.927†	2962.0	2776.9	0.6482	mg/L	0.6482	mg/L	20:12:27
1	Sr 407.771†	525534.3	524557.5	0.0210	mg/L	0.0210	mg/L	20:12:02
1	Ti 337.279†	405147.0	411495.4	0.4605	mg/L	0.4605	mg/L	20:12:02
1	Tl 190.801†	14.3	30.5	0.0474	mg/L	0.0474	mg/L	20:12:27
1	V 292.402†	9092.4	10764.2	0.0368	mg/L	0.0368	mg/L	20:12:07
1	Zn 213.857†	645746.5	651542.3	7.358	mg/L	7.358	mg/L	20:12:02
2	K 766.490†	2640.7	1980.4	0.9631	mg/L	0.9631	mg/L	20:11:50

2	Li 670.784†	567.5	414.8	0.0064 mg/L	0.0064 mg/L	20:11:50
2	Na 589.592	22868.2	13744.6	1.463 mg/L	1.463 mg/L	20:11:50
2	Y 371.029	3838797.6	3838797.6	0.999 mg/L		20:12:36
2	Ag 328.068†	109192.5	111687.8	0.3748 mg/L	0.3748 mg/L	20:12:41
2	Al 237.313†	82477.0	82795.8	9.493 mg/L	9.493 mg/L	20:12:41
2	As 188.979†	19.4	12.5	0.0151 mg/L	0.0151 mg/L	20:13:02
2	B 182.528†	8.0	14.9	0.0295 mg/L	0.0295 mg/L	20:13:02
2	Ba 233.527†	74427.7	74699.1	0.6148 mg/L	0.6148 mg/L	20:12:41
2	Be 313.107†	3405.7	3080.0	0.0006 mg/L	0.0006 mg/L	20:12:41
2	Ca 315.886†	357236.0	355390.5	2.113 mg/L	2.113 mg/L	20:12:41
2	Cd 228.802†	455.1	307.0	0.0070 mg/L	0.0070 mg/L	20:13:02
2	Co 228.616†	121.8	319.4	0.0053 mg/L	0.0053 mg/L	20:13:02
2	Cr 267.716†	67661.5	65834.0	0.3813 mg/L	0.3813 mg/L	20:12:41
2	Cu 324.752†	2934268.4	2935398.2	11.49 mg/L	11.49 mg/L	20:12:36
2	Fe 234.349†	1810437.9	1811424.4	32.22 mg/L	32.22 mg/L	20:12:36
2	Fe 238.204†	3927991.9	3932412.8	31.85 mg/L	31.85 mg/L	20:12:36
2	Mg 279.077†	64139.6	63579.7	2.409 mg/L	2.409 mg/L	20:12:41
2	Mn 257.610†	347317.8	346368.0	0.3683 mg/L	0.3683 mg/L	20:12:41
2	Mo 202.031†	198.3	180.8	0.0106 mg/L	0.0106 mg/L	20:13:02
2	Ni 231.604†	3873.2	3845.3	0.1049 mg/L	0.1049 mg/L	20:12:41
2	P 214.914†	5379.4	5326.4	3.479 mg/L	3.479 mg/L	20:12:41
2	Pb 220.353†	14805.6	14985.5	1.549 mg/L	1.549 mg/L	20:12:41
2	Sb 206.836†	30.0	25.1	0.0023 mg/L	0.0023 mg/L	20:13:02
2	Se 196.026†	-3.3	6.9	0.0043 mg/L	0.0043 mg/L	20:13:02
2	Sn 189.927†	2931.0	2719.7	0.6348 mg/L	0.6348 mg/L	20:13:02
2	Sr 407.771†	523916.4	518311.4	0.0207 mg/L	0.0207 mg/L	20:12:36
2	Ti 337.279†	403812.1	406592.5	0.4550 mg/L	0.4550 mg/L	20:12:36
2	Tl 190.801†	-5.0	11.0	0.0322 mg/L	0.0322 mg/L	20:13:02
2	V 292.402†	8972.0	10563.7	0.0361 mg/L	0.0361 mg/L	20:12:41
2	Zn 213.857†	644216.6	644326.3	7.276 mg/L	7.276 mg/L	20:12:36

Mean Data: 0606078-01X5

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3822072.4	0.994	mg/L	0.0062				0.62%
Ag 328.068†	112538.9	0.3777	mg/L	0.00404	0.3777	mg/L	0.00404	1.07%
Al 237.313†	83717.8	9.599	mg/L	0.1503	9.599	mg/L	0.1503	1.57%
As 188.979†	12.1	0.0145	mg/L	0.00077	0.0145	mg/L	0.00077	5.32%
B 182.528†	14.5	0.0288	mg/L	0.00105	0.0288	mg/L	0.00105	3.65%
Ba 233.527†	75412.2	0.6207	mg/L	0.00830	0.6207	mg/L	0.00830	1.34%
Be 313.107†	3031.8	0.0006	mg/L	0.00001	0.0006	mg/L	0.00001	2.70%
Ca 315.886†	359360.1	2.137	mg/L	0.0336	2.137	mg/L	0.0336	1.57%
Cd 228.802†	310.5	0.0071	mg/L	0.00012	0.0071	mg/L	0.00012	1.64%
Co 228.616†	327.8	0.0055	mg/L	0.00027	0.0055	mg/L	0.00027	4.92%
Cr 267.716†	66627.4	0.3859	mg/L	0.00650	0.3859	mg/L	0.00650	1.68%
Cu 324.752†	2950676.6	11.55	mg/L	0.085	11.55	mg/L	0.085	0.73%
Fe 234.349†	1823635.8	32.43	mg/L	0.307	32.43	mg/L	0.307	0.95%
Fe 238.204†	3952821.5	32.02	mg/L	0.234	32.02	mg/L	0.234	0.73%
K 766.490†	1950.3	0.9486	mg/L	0.02051	0.9486	mg/L	0.02051	2.16%
Li 670.784†	425.3	0.0067	mg/L	0.00038	0.0067	mg/L	0.00038	5.74%
Mg 279.077†	64306.8	2.437	mg/L	0.0393	2.437	mg/L	0.0393	1.61%
Mn 257.610†	350082.3	0.3722	mg/L	0.00563	0.3722	mg/L	0.00563	1.51%
Mo 202.031†	183.3	0.0108	mg/L	0.00022	0.0108	mg/L	0.00022	2.06%
Na 589.592	13832.7	1.474	mg/L	0.0150	1.474	mg/L	0.0150	1.02%
Ni 231.604†	3893.9	0.1063	mg/L	0.00193	0.1063	mg/L	0.00193	1.81%
P 214.914†	5268.6	3.442	mg/L	0.0531	3.442	mg/L	0.0531	1.54%
Pb 220.353†	15140.6	1.566	mg/L	0.0228	1.566	mg/L	0.0228	1.45%
Sb 206.836†	18.3	-0.0008	mg/L	0.00442	-0.0008	mg/L	0.00442	533.57%
Se 196.026†	4.7	0.0020	mg/L	0.00336	0.0020	mg/L	0.00336	172.18%
Sn 189.927†	2748.3	0.6415	mg/L	0.00949	0.6415	mg/L	0.00949	1.48%
Sr 407.771†	521434.4	0.0208	mg/L	0.00018	0.0208	mg/L	0.00018	0.86%
Ti 337.279†	409044.0	0.4578	mg/L	0.00389	0.4578	mg/L	0.00389	0.85%
Tl 190.801†	20.7	0.0398	mg/L	0.01072	0.0398	mg/L	0.01072	26.96%
V 292.402†	10664.0	0.0364	mg/L	0.00050	0.0364	mg/L	0.00050	1.37%
Zn 213.857†	647934.3	7.317	mg/L	0.0576	7.317	mg/L	0.0576	0.79%

Sequence No.: 44
Sample ID: 0606078-02
Analyst:
Initial Sample Wt:

Autosampler Location: 42
Date Collected: 6/7/2006 8:14:38 PM
Data Type: Original
Initial Sample Vol:

Dilution: Sample Prep Vol:

Replicate Data: 0606078-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	9039.3	8306.1	4.008	mg/L	4.008	mg/L	20:16:13
1	Li 670.784†	1434.1	1269.6	0.0285	mg/L	0.0285	mg/L	20:16:13
1	Na 589.592	57808.6	48685.0	5.669	mg/L	5.669	mg/L	20:16:13
1	Y 371.029	3873727.9	3873727.9	1.01	mg/L			20:16:37
1	Ag 328.068†	123450.2	124850.2	0.4207	mg/L	0.4207	mg/L	20:16:43
1	Al 237.313†	217901.4	216437.1	24.84	mg/L	24.84	mg/L	20:16:43
1	As 188.979†	32.7	25.5	0.0299	mg/L	0.0299	mg/L	20:17:03
1	B 182.528†	11.7	18.5	0.0365	mg/L	0.0365	mg/L	20:17:03
1	Ba 233.527†	120137.6	119386.6	0.9822	mg/L	0.9822	mg/L	20:16:43
1	Be 313.107†	11513.2	11094.5	0.0016	mg/L	0.0016	mg/L	20:16:43
1	Ca 315.886†	3551692.1	3522129.9	21.06	mg/L	21.06	mg/L	20:16:37
1	Cd 228.802†	1308.4	1149.7	0.0253	mg/L	0.0253	mg/L	20:17:03
1	Co 228.616†	909.6	1100.0	0.0212	mg/L	0.0212	mg/L	20:17:03
1	Cr 267.716†	249827.7	245992.7	1.424	mg/L	1.424	mg/L	20:16:43
1	Cu 324.752†	5229920.8	5186955.4	20.32	mg/L	20.32	mg/L	20:16:31
1	Fe 234.349†	4298371.0	4263935.8	75.83	mg/L	75.83	mg/L	20:16:31
1	Fe 238.204†	9095385.3	9024721.2	73.10	mg/L	73.10	mg/L	20:16:31
1	Mg 279.077†	187594.4	185508.9	7.062	mg/L	7.062	mg/L	20:16:43
1	Mn 257.610†	857202.8	849207.7	0.9070	mg/L	0.9070	mg/L	20:16:37
1	Mo 202.031†	313.1	293.0	0.0176	mg/L	0.0176	mg/L	20:17:03
1	Ni 231.604†	28978.8	28723.5	0.8030	mg/L	0.8030	mg/L	20:16:43
1	P 214.914†	15216.6	15039.7	9.786	mg/L	9.786	mg/L	20:16:43
1	Pb 220.353†	43439.4	43266.0	4.482	mg/L	4.482	mg/L	20:16:43
1	Sb 206.836†	80.9	75.4	0.0037	mg/L	0.0037	mg/L	20:17:03
1	Se 196.026†	-2.4	7.8	0.0053	mg/L	0.0053	mg/L	20:17:03
1	Sn 189.927†	7259.6	6988.7	1.639	mg/L	1.639	mg/L	20:17:03
1	Sr 407.771†	3511215.7	3477977.1	0.1410	mg/L	0.1410	mg/L	20:16:31
1	Ti 337.279†	1335639.1	1327629.1	1.488	mg/L	1.488	mg/L	20:16:37
1	Tl 190.801†	15.2	31.1	0.0539	mg/L	0.0539	mg/L	20:17:03
1	V 292.402†	82755.0	83699.9	0.3094	mg/L	0.3094	mg/L	20:16:43
1	Zn 213.857†	687471.8	681432.9	7.688	mg/L	7.688	mg/L	20:16:37
2	K 766.490†	8959.9	8179.6	3.947	mg/L	3.947	mg/L	20:16:18
2	Li 670.784†	1471.0	1298.5	0.0293	mg/L	0.0293	mg/L	20:16:18
2	Na 589.592	58208.4	49084.8	5.717	mg/L	5.717	mg/L	20:16:18
2	Y 371.029	3894612.7	3894612.7	1.01	mg/L			20:17:19
2	Ag 328.068†	124855.3	125580.1	0.4231	mg/L	0.4231	mg/L	20:17:24
2	Al 237.313†	220755.3	218094.4	25.04	mg/L	25.04	mg/L	20:17:24
2	As 188.979†	30.7	23.5	0.0273	mg/L	0.0273	mg/L	20:17:45
2	B 182.528†	6.2	13.0	0.0257	mg/L	0.0257	mg/L	20:17:45
2	Ba 233.527†	121795.1	120383.3	0.9904	mg/L	0.9904	mg/L	20:17:24
2	Be 313.107†	11566.5	11085.9	0.0016	mg/L	0.0016	mg/L	20:17:24
2	Ca 315.886†	3588325.7	3539387.8	21.16	mg/L	21.16	mg/L	20:17:19
2	Cd 228.802†	1319.3	1153.5	0.0254	mg/L	0.0254	mg/L	20:17:45
2	Co 228.616†	896.7	1082.5	0.0208	mg/L	0.0208	mg/L	20:17:45
2	Cr 267.716†	252708.1	247506.2	1.433	mg/L	1.433	mg/L	20:17:24
2	Cu 324.752†	5261850.9	5190640.5	20.33	mg/L	20.33	mg/L	20:17:12
2	Fe 234.349†	4338607.5	4280776.5	76.13	mg/L	76.13	mg/L	20:17:12
2	Fe 238.204†	9184637.0	9064413.7	73.42	mg/L	73.42	mg/L	20:17:12
2	Mg 279.077†	189942.2	186828.0	7.112	mg/L	7.112	mg/L	20:17:24
2	Mn 257.610†	863046.4	850413.9	0.9083	mg/L	0.9083	mg/L	20:17:19
2	Mo 202.031†	307.9	286.1	0.0171	mg/L	0.0171	mg/L	20:17:45
2	Ni 231.604†	29755.7	29336.1	0.8202	mg/L	0.8202	mg/L	20:17:24
2	P 214.914†	15069.1	14813.0	9.639	mg/L	9.639	mg/L	20:17:24
2	Pb 220.353†	44007.2	43595.2	4.516	mg/L	4.516	mg/L	20:17:24
2	Sb 206.836†	70.6	64.8	-0.0012	mg/L	-0.0012	mg/L	20:17:45
2	Se 196.026†	1.8	12.0	0.0098	mg/L	0.0098	mg/L	20:17:45
2	Sn 189.927†	7276.5	6966.7	1.634	mg/L	1.634	mg/L	20:17:45
2	Sr 407.771†	3537083.1	3484824.0	0.1412	mg/L	0.1412	mg/L	20:17:12
2	Ti 337.279†	1343028.1	1327814.7	1.488	mg/L	1.488	mg/L	20:17:19
2	Tl 190.801†	10.2	26.1	0.0501	mg/L	0.0501	mg/L	20:17:45
2	V 292.402†	83551.6	84045.8	0.3107	mg/L	0.3107	mg/L	20:17:24
2	Zn 213.857†	688934.8	679218.6	7.663	mg/L	7.663	mg/L	20:17:19

Mean Data: 0606078-02

Mean Corrected	Calib	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	3884170.3	1.01	mg/L	0.004				0.38%
Ag 328.068†	125215.1	0.4219	mg/L	0.00174	0.4219	mg/L	0.00174	0.41%
Al 237.313†	217265.8	24.94	mg/L	0.135	24.94	mg/L	0.135	0.54%
As 188.979†	24.5	0.0286	mg/L	0.00183	0.0286	mg/L	0.00183	6.40%
B 182.528†	15.7	0.0311	mg/L	0.00766	0.0311	mg/L	0.00766	24.62%
Ba 233.527†	119884.9	0.9863	mg/L	0.00580	0.9863	mg/L	0.00580	0.59%
Be 313.107†	11090.2	0.0016	mg/L	0.00000	0.0016	mg/L	0.00000	0.09%
Ca 315.886†	3530758.8	21.11	mg/L	0.073	21.11	mg/L	0.073	0.35%
Cd 228.802†	1151.6	0.0253	mg/L	0.00007	0.0253	mg/L	0.00007	0.28%
Co 228.616†	1091.3	0.0210	mg/L	0.00029	0.0210	mg/L	0.00029	1.40%
Cr 267.716†	246749.4	1.428	mg/L	0.0062	1.428	mg/L	0.0062	0.43%
Cu 324.752†	5188797.9	20.32	mg/L	0.010	20.32	mg/L	0.010	0.05%
Fe 234.349†	4272356.1	75.98	mg/L	0.212	75.98	mg/L	0.212	0.28%
Fe 238.204†	9044567.4	73.26	mg/L	0.227	73.26	mg/L	0.227	0.31%
K 766.490†	8242.9	3.978	mg/L	0.0431	3.978	mg/L	0.0431	1.08%
Li 670.784†	1284.0	0.0289	mg/L	0.00053	0.0289	mg/L	0.00053	1.83%
Mg 279.077†	186168.4	7.087	mg/L	0.0356	7.087	mg/L	0.0356	0.50%
Mn 257.610†	849810.8	0.9076	mg/L	0.00091	0.9076	mg/L	0.00091	0.10%
Mo 202.031†	289.5	0.0173	mg/L	0.00030	0.0173	mg/L	0.00030	1.73%
Na 589.592	48884.9	5.693	mg/L	0.0340	5.693	mg/L	0.0340	0.60%
Ni 231.604†	29029.8	0.8116	mg/L	0.01215	0.8116	mg/L	0.01215	1.50%
P 214.914†	14926.4	9.713	mg/L	0.1041	9.713	mg/L	0.1041	1.07%
Pb 220.353†	43430.6	4.499	mg/L	0.0242	4.499	mg/L	0.0242	0.54%
Sb 206.836†	70.1	0.0012	mg/L	0.00345	0.0012	mg/L	0.00345	277.42%
Se 196.026†	9.9	0.0076	mg/L	0.00319	0.0076	mg/L	0.00319	42.00%
Sn 189.927†	6977.7	1.636	mg/L	0.0036	1.636	mg/L	0.0036	0.22%
Sr 407.771†	3481400.6	0.1411	mg/L	0.00020	0.1411	mg/L	0.00020	0.14%
Ti 337.279†	1327721.9	1.488	mg/L	0.0001	1.488	mg/L	0.0001	0.01%
Tl 190.801†	28.6	0.0520	mg/L	0.00269	0.0520	mg/L	0.00269	5.18%
V 292.402†	83872.9	0.3101	mg/L	0.00090	0.3101	mg/L	0.00090	0.29%
Zn 213.857†	680325.7	7.675	mg/L	0.0178	7.675	mg/L	0.0178	0.23%

Sequence No.: 45
Sample ID: 0606078-03
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 6/7/2006 8:19:22 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606078-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	3961.0	3283.8	1.591	mg/L	1.591	mg/L	20:20:57
1	Li 670.784†	1797.0	1637.5	0.0381	mg/L	0.0381	mg/L	20:20:57
1	Na 589.592	57952.4	48828.8	5.686	mg/L	5.686	mg/L	20:20:57
1	Y 371.029	3856959.9	3856959.9	1.00	mg/L			20:21:20
1	Ag 328.068†	46739.9	48929.7	0.1669	mg/L	0.1669	mg/L	20:21:25
1	Al 237.313†	554404.2	552751.8	63.94	mg/L	63.94	mg/L	20:21:20
1	As 188.979†	55.7	48.7	0.0570	mg/L	0.0570	mg/L	20:21:46
1	B 182.528†	6.6	13.4	0.0266	mg/L	0.0266	mg/L	20:21:46
1	Ba 233.527†	22731.2	22825.1	0.1877	mg/L	0.1877	mg/L	20:21:25
1	Be 313.107†	15089.8	14708.8	0.0007	mg/L	0.0007	mg/L	20:21:25
1	Ca 315.886†	560727.6	556515.4	3.320	mg/L	3.320	mg/L	20:21:20
1	Cd 228.802†	278.6	128.9	0.0032	mg/L	0.0032	mg/L	20:21:46
1	Co 228.616†	365.7	561.9	0.0063	mg/L	0.0063	mg/L	20:21:46
1	Cr 267.716†	16154.1	14180.3	0.0857	mg/L	0.0857	mg/L	20:21:25
1	Cu 324.752†	496420.1	491886.9	1.941	mg/L	1.941	mg/L	20:21:20
1	Fe 234.349†	4495779.6	4479226.2	79.67	mg/L	79.67	mg/L	20:21:13
1	Fe 238.204†	9509184.3	9476371.5	76.76	mg/L	76.76	mg/L	20:21:13
1	Mg 279.077†	98346.6	97369.6	3.682	mg/L	3.682	mg/L	20:21:25
1	Mn 257.610†	233328.7	231123.2	0.2449	mg/L	0.2449	mg/L	20:21:25
1	Mo 202.031†	268.7	250.1	0.0149	mg/L	0.0149	mg/L	20:21:46
1	Ni 231.604†	2512.3	2470.7	0.0664	mg/L	0.0664	mg/L	20:21:46
1	P 214.914†	7917.9	7831.0	5.105	mg/L	5.105	mg/L	20:21:46
1	Pb 220.353†	10171.3	10296.8	1.075	mg/L	1.075	mg/L	20:21:46
1	Sb 206.836†	29.6	24.6	0.0078	mg/L	0.0078	mg/L	20:21:46
1	Se 196.026†	-9.4	0.8	-0.0022	mg/L	-0.0022	mg/L	20:21:46
1	Sn 189.927†	466.4	249.5	0.0597	mg/L	0.0597	mg/L	20:21:46
1	Sr 407.771†	841008.1	831869.6	0.0335	mg/L	0.0335	mg/L	20:21:20
1	Ti 337.279†	2386137.3	2380367.5	2.668	mg/L	2.668	mg/L	20:21:20

1	Tl 190.801†	2.0	18.1	0.0294 mg/L	0.0294 mg/L	20:21:46
1	V 292.402†	153280.7	154346.2	0.5800 mg/L	0.5800 mg/L	20:21:25
1	Zn 213.857†	25376.2	24522.9	0.2713 mg/L	0.2713 mg/L	20:21:25
2	K 766.490†	3949.7	3275.2	1.586 mg/L	1.586 mg/L	20:21:03
2	Li 670.784†	1709.6	1551.6	0.0358 mg/L	0.0358 mg/L	20:21:03
2	Na 589.592	58173.9	49050.3	5.713 mg/L	5.713 mg/L	20:21:03
2	Y 371.029	3854279.2	3854279.2	1.00 mg/L		20:22:00
2	Ag 328.068†	46931.3	49153.0	0.1677 mg/L	0.1677 mg/L	20:22:05
2	Al 237.313†	554904.9	553635.5	64.04 mg/L	64.04 mg/L	20:22:00
2	As 188.979†	63.0	56.0	0.0661 mg/L	0.0661 mg/L	20:22:26
2	B 182.528†	4.3	11.1	0.0221 mg/L	0.0221 mg/L	20:22:26
2	Ba 233.527†	22720.1	22829.7	0.1877 mg/L	0.1877 mg/L	20:22:05
2	Be 313.107†	15173.7	14803.0	0.0007 mg/L	0.0007 mg/L	20:22:05
2	Ca 315.886†	560176.8	556354.7	3.319 mg/L	3.319 mg/L	20:22:00
2	Cd 228.802†	266.9	117.5	0.0029 mg/L	0.0029 mg/L	20:22:26
2	Co 228.616†	361.4	557.9	0.0062 mg/L	0.0062 mg/L	20:22:26
2	Cr 267.716†	16205.8	14243.0	0.0861 mg/L	0.0861 mg/L	20:22:05
2	Cu 324.752†	496033.9	491845.8	1.941 mg/L	1.941 mg/L	20:22:00
2	Fe 234.349†	4546567.1	4532995.1	80.62 mg/L	80.62 mg/L	20:21:53
2	Fe 238.204†	9639956.2	9613387.3	77.87 mg/L	77.87 mg/L	20:21:53
2	Mg 279.077†	98419.2	97510.2	3.687 mg/L	3.687 mg/L	20:22:05
2	Mn 257.610†	233120.8	231077.7	0.2449 mg/L	0.2449 mg/L	20:22:05
2	Mo 202.031†	252.4	233.9	0.0139 mg/L	0.0139 mg/L	20:22:26
2	Ni 231.604†	2556.3	2516.4	0.0677 mg/L	0.0677 mg/L	20:22:26
2	P 214.914†	7934.2	7852.8	5.120 mg/L	5.120 mg/L	20:22:26
2	Pb 220.353†	10231.2	10363.6	1.082 mg/L	1.082 mg/L	20:22:26
2	Sb 206.836†	20.2	15.3	0.0036 mg/L	0.0036 mg/L	20:22:26
2	Se 196.026†	-0.5	9.6	0.0073 mg/L	0.0073 mg/L	20:22:26
2	Sn 189.927†	489.9	273.4	0.0653 mg/L	0.0653 mg/L	20:22:26
2	Sr 407.771†	840105.8	831552.6	0.0334 mg/L	0.0334 mg/L	20:22:00
2	Ti 337.279†	2386275.4	2382159.3	2.670 mg/L	2.670 mg/L	20:22:00
2	Tl 190.801†	4.3	20.3	0.0311 mg/L	0.0311 mg/L	20:22:26
2	V 292.402†	153581.4	154752.4	0.5814 mg/L	0.5814 mg/L	20:22:05
2	Zn 213.857†	25512.6	24676.6	0.2730 mg/L	0.2730 mg/L	20:22:05

Mean Data: 0606078-03

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3855619.6	1.00	mg/L	0.000				0.05%
Ag 328.068†	49041.4	0.1673	mg/L	0.00056	0.1673	mg/L	0.00056	0.33%
Al 237.313†	553193.6	63.99	mg/L	0.070	63.99	mg/L	0.070	0.11%
As 188.979†	52.3	0.0615	mg/L	0.00640	0.0615	mg/L	0.00640	10.40%
B 182.528†	12.3	0.0244	mg/L	0.00315	0.0244	mg/L	0.00315	12.95%
Ba 233.527†	22827.4	0.1877	mg/L	0.00003	0.1877	mg/L	0.00003	0.01%
Be 313.107†	14755.9	0.0007	mg/L	0.00002	0.0007	mg/L	0.00002	2.38%
Ca 315.886†	556435.1	3.319	mg/L	0.0007	3.319	mg/L	0.0007	0.02%
Cd 228.802†	123.2	0.0031	mg/L	0.00020	0.0031	mg/L	0.00020	6.62%
Co 228.616†	559.9	0.0062	mg/L	0.00007	0.0062	mg/L	0.00007	1.13%
Cr 267.716†	14211.6	0.0859	mg/L	0.00030	0.0859	mg/L	0.00030	0.35%
Cu 324.752†	491866.3	1.941	mg/L	0.0000	1.941	mg/L	0.0000	0.00%
Fe 234.349†	4506110.7	80.14	mg/L	0.676	80.14	mg/L	0.676	0.84%
Fe 238.204†	9544879.4	77.32	mg/L	0.785	77.32	mg/L	0.785	1.02%
K 766.490†	3279.5	1.588	mg/L	0.0029	1.588	mg/L	0.0029	0.18%
Li 670.784†	1594.6	0.0369	mg/L	0.00157	0.0369	mg/L	0.00157	4.26%
Mg 279.077†	97439.9	3.684	mg/L	0.0035	3.684	mg/L	0.0035	0.10%
Mn 257.610†	231100.5	0.2449	mg/L	0.00003	0.2449	mg/L	0.00003	0.01%
Mo 202.031†	242.0	0.0144	mg/L	0.00071	0.0144	mg/L	0.00071	4.91%
Na 589.592	48939.6	5.700	mg/L	0.0189	5.700	mg/L	0.0189	0.33%
Ni 231.604†	2493.6	0.0670	mg/L	0.00091	0.0670	mg/L	0.00091	1.35%
P 214.914†	7841.9	5.113	mg/L	0.0100	5.113	mg/L	0.0100	0.20%
Pb 220.353†	10330.2	1.079	mg/L	0.0049	1.079	mg/L	0.0049	0.45%
Sb 206.836†	19.9	0.0057	mg/L	0.00294	0.0057	mg/L	0.00294	51.64%
Se 196.026†	5.2	0.0026	mg/L	0.00671	0.0026	mg/L	0.00671	261.71%
Sn 189.927†	261.5	0.0625	mg/L	0.00398	0.0625	mg/L	0.00398	6.37%
Sr 407.771†	831711.1	0.0335	mg/L	0.00001	0.0335	mg/L	0.00001	0.03%
Ti 337.279†	2381263.4	2.669	mg/L	0.0014	2.669	mg/L	0.0014	0.05%
Tl 190.801†	19.2	0.0302	mg/L	0.00122	0.0302	mg/L	0.00122	4.02%
V 292.402†	154549.3	0.5807	mg/L	0.00100	0.5807	mg/L	0.00100	0.17%
Zn 213.857†	24599.7	0.2722	mg/L	0.00116	0.2722	mg/L	0.00116	0.43%

Sequence No.: 46
Sample ID: 0606078-04X20
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 6/7/2006 8:24:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606078-04X20

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1341.0	673.0	0.3337	mg/L	0.3337	mg/L	20:25:39
1	Li 670.784†	278.4	124.1	-0.0011	mg/L	-0.0011	mg/L	20:25:39
1	Na 589.592	16556.8	7433.2	0.7038	mg/L	0.7038	mg/L	20:25:39
1	Y 371.029	3855731.5	3855731.5	1.00	mg/L			20:25:55
1	Ag 328.068†	63155.4	65310.1	0.2188	mg/L	0.2188	mg/L	20:26:00
1	Al 237.313†	17654.2	17806.9	2.044	mg/L	2.044	mg/L	20:26:00
1	As 188.979†	15.8	8.9	0.0104	mg/L	0.0104	mg/L	20:26:20
1	B 182.528†	-0.1	6.7	0.0135	mg/L	0.0135	mg/L	20:26:20
1	Ba 233.527†	6611.7	6761.7	0.0557	mg/L	0.0557	mg/L	20:26:00
1	Be 313.107†	2095.0	1758.3	0.0005	mg/L	0.0005	mg/L	20:26:00
1	Ca 315.886†	275490.5	272322.0	1.618	mg/L	1.618	mg/L	20:25:55
1	Cd 228.802†	773.7	622.7	0.0134	mg/L	0.0134	mg/L	20:26:20
1	Co 228.616†	-47.6	149.9	0.0021	mg/L	0.0021	mg/L	20:26:20
1	Cr 267.716†	76902.8	74749.7	0.4313	mg/L	0.4313	mg/L	20:26:00
1	Cu 324.752†	2093442.8	2084220.1	8.158	mg/L	8.158	mg/L	20:25:55
1	Fe 234.349†	426252.9	423478.5	7.530	mg/L	7.530	mg/L	20:25:55
1	Fe 238.204†	936671.0	932896.0	7.554	mg/L	7.554	mg/L	20:25:55
1	Mg 279.077†	23943.7	23223.8	0.8727	mg/L	0.8727	mg/L	20:26:00
1	Mn 257.610†	171699.6	169755.3	0.1791	mg/L	0.1791	mg/L	20:25:55
1	Mo 202.031†	227.0	208.6	0.0123	mg/L	0.0123	mg/L	20:26:20
1	Ni 231.604†	1657.3	1619.1	0.0425	mg/L	0.0425	mg/L	20:26:00
1	P 214.914†	3561.4	3490.3	2.287	mg/L	2.287	mg/L	20:26:00
1	Pb 220.353†	18579.2	18682.5	1.934	mg/L	1.934	mg/L	20:26:00
1	Sb 206.836†	40.7	35.6	0.0080	mg/L	0.0080	mg/L	20:26:20
1	Se 196.026†	-4.8	5.4	0.0028	mg/L	0.0028	mg/L	20:26:20
1	Sn 189.927†	3418.7	3193.0	0.7445	mg/L	0.7445	mg/L	20:26:20
1	Sr 407.771†	264863.4	257740.5	0.0101	mg/L	0.0101	mg/L	20:25:55
1	Ti 337.279†	80003.3	81990.5	0.0910	mg/L	0.0910	mg/L	20:26:00
1	Tl 190.801†	-7.8	8.2	0.0257	mg/L	0.0257	mg/L	20:26:20
1	V 292.402†	118043.9	119265.1	0.4575	mg/L	0.4575	mg/L	20:26:00
1	Zn 213.857†	87063.2	86030.8	0.9717	mg/L	0.9717	mg/L	20:26:00
2	K 766.490†	1404.4	742.1	0.3670	mg/L	0.3670	mg/L	20:25:45
2	Li 670.784†	280.6	127.5	-0.0010	mg/L	-0.0010	mg/L	20:25:45
2	Na 589.592	16571.5	7447.9	0.7055	mg/L	0.7055	mg/L	20:25:45
2	Y 371.029	3839555.9	3839555.9	0.999	mg/L			20:26:27
2	Ag 328.068†	63155.1	65575.1	0.2197	mg/L	0.2197	mg/L	20:26:32
2	Al 237.313†	17650.2	17877.1	2.052	mg/L	2.052	mg/L	20:26:32
2	As 188.979†	13.0	6.2	0.0070	mg/L	0.0070	mg/L	20:26:53
2	B 182.528†	0.3	7.2	0.0144	mg/L	0.0144	mg/L	20:26:53
2	Ba 233.527†	6609.9	6787.6	0.0559	mg/L	0.0559	mg/L	20:26:32
2	Be 313.107†	2182.4	1854.6	0.0005	mg/L	0.0005	mg/L	20:26:32
2	Ca 315.886†	273238.6	271224.6	1.612	mg/L	1.612	mg/L	20:26:27
2	Cd 228.802†	762.8	615.0	0.0133	mg/L	0.0133	mg/L	20:26:53
2	Co 228.616†	-68.8	128.5	0.0016	mg/L	0.0016	mg/L	20:26:53
2	Cr 267.716†	76830.8	75000.6	0.4327	mg/L	0.4327	mg/L	20:26:32
2	Cu 324.752†	2098362.5	2097938.1	8.212	mg/L	8.212	mg/L	20:26:27
2	Fe 234.349†	423984.5	422997.7	7.521	mg/L	7.521	mg/L	20:26:27
2	Fe 238.204†	930089.8	930241.3	7.532	mg/L	7.532	mg/L	20:26:27
2	Mg 279.077†	23988.8	23369.5	0.8783	mg/L	0.8783	mg/L	20:26:32
2	Mn 257.610†	170464.7	169240.2	0.1786	mg/L	0.1786	mg/L	20:26:27
2	Mo 202.031†	225.1	207.6	0.0123	mg/L	0.0123	mg/L	20:26:53
2	Ni 231.604†	1686.4	1655.2	0.0435	mg/L	0.0435	mg/L	20:26:32
2	P 214.914†	3425.2	3368.9	2.208	mg/L	2.208	mg/L	20:26:32
2	Pb 220.353†	18519.8	18701.0	1.936	mg/L	1.936	mg/L	20:26:32
2	Sb 206.836†	43.6	38.8	0.0094	mg/L	0.0094	mg/L	20:26:53
2	Se 196.026†	-0.7	9.4	0.0071	mg/L	0.0071	mg/L	20:26:53
2	Sn 189.927†	3421.4	3210.1	0.7485	mg/L	0.7485	mg/L	20:26:53
2	Sr 407.771†	263375.3	257363.2	0.0101	mg/L	0.0101	mg/L	20:26:27
2	Ti 337.279†	80384.4	82708.1	0.0918	mg/L	0.0918	mg/L	20:26:32
2	Tl 190.801†	-1.0	15.0	0.0309	mg/L	0.0309	mg/L	20:26:53
2	V 292.402†	118285.7	120002.9	0.4603	mg/L	0.4603	mg/L	20:26:32
2	Zn 213.857†	87411.8	86745.4	0.9798	mg/L	0.9798	mg/L	20:26:32

Mean Data: 0606078-04X20

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3847643.7	1.00	mg/L	0.003				0.30%
Ag 328.068†	65442.6	0.2192	mg/L	0.00063	0.2192	mg/L	0.00063	0.29%
Al 237.313†	17842.0	2.048	mg/L	0.0058	2.048	mg/L	0.0058	0.28%
As 188.979†	7.5	0.0087	mg/L	0.00239	0.0087	mg/L	0.00239	27.36%
B 182.528†	7.0	0.0140	mg/L	0.00064	0.0140	mg/L	0.00064	4.56%
Ba 233.527†	6774.6	0.0558	mg/L	0.00015	0.0558	mg/L	0.00015	0.27%
Be 313.107†	1806.4	0.0005	mg/L	0.00001	0.0005	mg/L	0.00001	2.50%
Ca 315.886†	271773.3	1.615	mg/L	0.0046	1.615	mg/L	0.0046	0.29%
Cd 228.802†	618.8	0.0134	mg/L	0.00010	0.0134	mg/L	0.00010	0.78%
Co 228.616†	139.2	0.0019	mg/L	0.00036	0.0019	mg/L	0.00036	19.04%
Cr 267.716†	74875.2	0.4320	mg/L	0.00102	0.4320	mg/L	0.00102	0.24%
Cu 324.752†	2091079.1	8.185	mg/L	0.0380	8.185	mg/L	0.0380	0.46%
Fe 234.349†	423238.1	7.525	mg/L	0.0061	7.525	mg/L	0.0061	0.08%
Fe 238.204†	931568.6	7.543	mg/L	0.0152	7.543	mg/L	0.0152	0.20%
K 766.490†	707.5	0.3504	mg/L	0.02351	0.3504	mg/L	0.02351	6.71%
Li 670.784†	125.8	-0.0011	mg/L	0.00006	-0.0011	mg/L	0.00006	5.93%
Mg 279.077†	23296.6	0.8755	mg/L	0.00394	0.8755	mg/L	0.00394	0.45%
Mn 257.610†	169497.7	0.1789	mg/L	0.00039	0.1789	mg/L	0.00039	0.22%
Mo 202.031†	208.1	0.0123	mg/L	0.00004	0.0123	mg/L	0.00004	0.35%
Na 589.592	7440.6	0.7046	mg/L	0.00125	0.7046	mg/L	0.00125	0.18%
Ni 231.604†	1637.2	0.0430	mg/L	0.00072	0.0430	mg/L	0.00072	1.67%
P 214.914†	3429.6	2.247	mg/L	0.0557	2.247	mg/L	0.0557	2.48%
Pb 220.353†	18691.8	1.935	mg/L	0.0013	1.935	mg/L	0.0013	0.07%
Sb 206.836†	37.2	0.0087	mg/L	0.00097	0.0087	mg/L	0.00097	11.21%
Se 196.026†	7.4	0.0049	mg/L	0.00306	0.0049	mg/L	0.00306	62.06%
Sn 189.927†	3201.6	0.7465	mg/L	0.00284	0.7465	mg/L	0.00284	0.38%
Sr 407.771†	257551.8	0.0101	mg/L	0.00001	0.0101	mg/L	0.00001	0.11%
Ti 337.279†	82349.3	0.0914	mg/L	0.00057	0.0914	mg/L	0.00057	0.62%
Tl 190.801†	11.6	0.0283	mg/L	0.00369	0.0283	mg/L	0.00369	13.02%
V 292.402†	119634.0	0.4589	mg/L	0.00200	0.4589	mg/L	0.00200	0.44%
Zn 213.857†	86388.1	0.9758	mg/L	0.00571	0.9758	mg/L	0.00571	0.59%

Sequence No.: 47
Sample ID: 0606078-05X20
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 45
Date Collected: 6/7/2006 8:28:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606078-05X20

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1393.3	733.6	0.3629	mg/L	0.3629	mg/L	20:30:04
1	Li 670.784†	268.6	116.0	-0.0013	mg/L	-0.0013	mg/L	20:30:04
1	Na 589.592	16035.8	6912.2	0.6410	mg/L	0.6410	mg/L	20:30:04
1	Y 371.029	3832589.7	3832589.7	0.997	mg/L			20:30:18
1	Ag 328.068†	72141.0	74702.8	0.2502	mg/L	0.2502	mg/L	20:30:24
1	Al 237.313†	17984.7	18244.7	2.092	mg/L	2.092	mg/L	20:30:24
1	As 188.979†	15.7	8.9	0.0104	mg/L	0.0104	mg/L	20:30:44
1	B 182.528†	-2.2	4.7	0.0095	mg/L	0.0095	mg/L	20:30:44
1	Ba 233.527†	5739.8	5926.9	0.0488	mg/L	0.0488	mg/L	20:30:24
1	Be 313.107†	2203.6	1879.8	0.0006	mg/L	0.0006	mg/L	20:30:24
1	Ca 315.886†	171731.2	169911.4	1.006	mg/L	1.006	mg/L	20:30:18
1	Cd 228.802†	846.2	700.0	0.0151	mg/L	0.0151	mg/L	20:30:44
1	Co 228.616†	-82.8	114.4	0.0013	mg/L	0.0013	mg/L	20:30:44
1	Cr 267.716†	94635.7	92998.4	0.5368	mg/L	0.5368	mg/L	20:30:24
1	Cu 324.752†	2149819.8	2153367.5	8.429	mg/L	8.429	mg/L	20:30:18
1	Fe 234.349†	456371.7	456253.2	8.113	mg/L	8.113	mg/L	20:30:18
1	Fe 238.204†	1003803.3	1005867.3	8.145	mg/L	8.145	mg/L	20:30:18
1	Mg 279.077†	21786.8	21204.5	0.7946	mg/L	0.7946	mg/L	20:30:24
1	Mn 257.610†	115124.2	114044.7	0.1195	mg/L	0.1195	mg/L	20:30:24
1	Mo 202.031†	283.4	266.4	0.0159	mg/L	0.0159	mg/L	20:30:44
1	Ni 231.604†	1439.2	1410.4	0.0366	mg/L	0.0366	mg/L	20:30:44
1	P 214.914†	2966.5	2915.1	1.913	mg/L	1.913	mg/L	20:30:24
1	Pb 220.353†	19710.9	19929.3	2.064	mg/L	2.064	mg/L	20:30:24
1	Sb 206.836†	57.7	52.9	0.0134	mg/L	0.0134	mg/L	20:30:44

1	Se 196.026†	-8.4	1.7	-0.0012 mg/L	-0.0012 mg/L	20:30:44
1	Sn 189.927†	3276.6	3071.1	0.7159 mg/L	0.7159 mg/L	20:30:44
1	Sr 407.771†	223124.1	217471.1	0.0085 mg/L	0.0085 mg/L	20:30:18
1	Ti 337.279†	85927.2	88413.7	0.0982 mg/L	0.0982 mg/L	20:30:24
1	Tl 190.801†	5.0	21.0	0.0347 mg/L	0.0347 mg/L	20:30:44
1	V 292.402†	109793.7	111700.8	0.4283 mg/L	0.4283 mg/L	20:30:24
1	Zn 213.857†	82869.7	82348.8	0.9301 mg/L	0.9301 mg/L	20:30:24
2	K 766.490†	1379.2	725.8	0.3591 mg/L	0.3591 mg/L	20:30:09
2	Li 670.784†	302.2	151.0	-0.0004 mg/L	-0.0004 mg/L	20:30:09
2	Na 589.592	16232.7	7109.1	0.6648 mg/L	0.6648 mg/L	20:30:09
2	Y 371.029	3814850.3	3814850.3	0.992 mg/L		20:30:51
2	Ag 328.068†	72062.4	74960.0	0.2511 mg/L	0.2511 mg/L	20:30:56
2	Al 237.313†	17817.4	18160.0	2.082 mg/L	2.082 mg/L	20:30:56
2	As 188.979†	9.7	2.9	0.0030 mg/L	0.0030 mg/L	20:31:16
2	B 182.528†	-2.7	4.2	0.0085 mg/L	0.0085 mg/L	20:31:16
2	Ba 233.527†	5680.6	5894.1	0.0485 mg/L	0.0485 mg/L	20:30:56
2	Be 313.107†	2161.5	1847.7	0.0006 mg/L	0.0006 mg/L	20:30:56
2	Ca 315.886†	170922.5	169897.5	1.005 mg/L	1.005 mg/L	20:30:51
2	Cd 228.802†	850.3	708.1	0.0153 mg/L	0.0153 mg/L	20:31:16
2	Co 228.616†	-72.7	124.2	0.0015 mg/L	0.0015 mg/L	20:31:16
2	Cr 267.716†	93967.7	92766.7	0.5354 mg/L	0.5354 mg/L	20:30:56
2	Cu 324.752†	2146161.7	2159708.2	8.454 mg/L	8.454 mg/L	20:30:51
2	Fe 234.349†	455091.8	457092.0	8.128 mg/L	8.128 mg/L	20:30:51
2	Fe 238.204†	999392.9	1006104.8	8.147 mg/L	8.147 mg/L	20:30:51
2	Mg 279.077†	21604.8	21122.7	0.7915 mg/L	0.7915 mg/L	20:30:56
2	Mn 257.610†	114332.9	113784.2	0.1192 mg/L	0.1192 mg/L	20:30:56
2	Mo 202.031†	279.7	264.1	0.0158 mg/L	0.0158 mg/L	20:31:16
2	Ni 231.604†	1433.0	1410.9	0.0366 mg/L	0.0366 mg/L	20:31:16
2	P 214.914†	3019.3	2982.1	1.957 mg/L	1.957 mg/L	20:30:56
2	Pb 220.353†	19618.8	19928.6	2.064 mg/L	2.064 mg/L	20:30:56
2	Sb 206.836†	58.1	53.6	0.0138 mg/L	0.0138 mg/L	20:31:16
2	Se 196.026†	-2.9	7.2	0.0047 mg/L	0.0047 mg/L	20:31:16
2	Sn 189.927†	3233.6	3043.1	0.7093 mg/L	0.7093 mg/L	20:31:16
2	Sr 407.771†	222328.7	217710.2	0.0085 mg/L	0.0085 mg/L	20:30:51
2	Ti 337.279†	85367.8	88250.8	0.0980 mg/L	0.0980 mg/L	20:30:56
2	Tl 190.801†	0.8	16.8	0.0315 mg/L	0.0315 mg/L	20:31:16
2	V 292.402†	109109.0	111522.9	0.4276 mg/L	0.4276 mg/L	20:30:56
2	Zn 213.857†	82543.5	82406.6	0.9307 mg/L	0.9307 mg/L	20:30:56

Mean Data: 0606078-05X20

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3823720.0	0.995	mg/L	0.0033				0.33%
Ag 328.068†	74831.4	0.2507	mg/L	0.00061	0.2507	mg/L	0.00061	0.24%
Al 237.313†	18202.3	2.087	mg/L	0.0070	2.087	mg/L	0.0070	0.34%
As 188.979†	5.9	0.0067	mg/L	0.00524	0.0067	mg/L	0.00524	78.23%
B 182.528†	4.4	0.0090	mg/L	0.00071	0.0090	mg/L	0.00071	7.86%
Ba 233.527†	5910.5	0.0487	mg/L	0.00019	0.0487	mg/L	0.00019	0.39%
Be 313.107†	1863.7	0.0006	mg/L	0.00000	0.0006	mg/L	0.00000	0.81%
Ca 315.886†	169904.4	1.006	mg/L	0.0001	1.006	mg/L	0.0001	0.01%
Cd 228.802†	704.0	0.0152	mg/L	0.00015	0.0152	mg/L	0.00015	1.00%
Co 228.616†	119.3	0.0014	mg/L	0.00016	0.0014	mg/L	0.00016	11.67%
Cr 267.716†	92882.6	0.5361	mg/L	0.00095	0.5361	mg/L	0.00095	0.18%
Cu 324.752†	2156537.8	8.441	mg/L	0.0175	8.441	mg/L	0.0175	0.21%
Fe 234.349†	456672.6	8.120	mg/L	0.0105	8.120	mg/L	0.0105	0.13%
Fe 238.204†	1005986.1	8.146	mg/L	0.0014	8.146	mg/L	0.0014	0.02%
K 766.490†	729.7	0.3610	mg/L	0.00265	0.3610	mg/L	0.00265	0.73%
Li 670.784†	133.5	-0.0009	mg/L	0.00064	-0.0009	mg/L	0.00064	74.98%
Mg 279.077†	21163.6	0.7931	mg/L	0.00222	0.7931	mg/L	0.00222	0.28%
Mn 257.610†	113914.5	0.1193	mg/L	0.00020	0.1193	mg/L	0.00020	0.17%
Mo 202.031†	265.3	0.0158	mg/L	0.00010	0.0158	mg/L	0.00010	0.65%
Na 589.592	7010.7	0.6529	mg/L	0.01676	0.6529	mg/L	0.01676	2.57%
Ni 231.604†	1410.6	0.0366	mg/L	0.00001	0.0366	mg/L	0.00001	0.03%
P 214.914†	2948.6	1.935	mg/L	0.0308	1.935	mg/L	0.0308	1.59%
Pb 220.353†	19928.9	2.064	mg/L	0.0001	2.064	mg/L	0.0001	0.00%
Sb 206.836†	53.3	0.0136	mg/L	0.00024	0.0136	mg/L	0.00024	1.78%
Se 196.026†	4.5	0.0017	mg/L	0.00417	0.0017	mg/L	0.00417	239.29%
Sn 189.927†	3057.1	0.7126	mg/L	0.00465	0.7126	mg/L	0.00465	0.65%
Sr 407.771†	217590.7	0.0085	mg/L	0.00001	0.0085	mg/L	0.00001	0.08%
Ti 337.279†	88332.3	0.0981	mg/L	0.00013	0.0981	mg/L	0.00013	0.13%
Tl 190.801†	18.9	0.0331	mg/L	0.00230	0.0331	mg/L	0.00230	6.96%

V 292.402†	111611.8	0.4280 mg/L	0.00049	0.4280 mg/L	0.00049	0.11%
Zn 213.857†	82377.7	0.9304 mg/L	0.00046	0.9304 mg/L	0.00046	0.05%

Sequence No.: 48
Sample ID: BF60721-DUP1X20
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 46
Date Collected: 6/7/2006 8:32:53 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60721-DUP1X20

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490†	1332.0	683.0	0.3385	mg/L	0.3385	mg/L	20:34:29
1	Li 670.784†	295.8	145.6	-0.0005	mg/L	-0.0005	mg/L	20:34:29
1	Na 589.592	14962.8	5839.3	0.5119	mg/L	0.5119	mg/L	20:34:29
1	Y 371.029	3801561.8	3801561.8	0.989	mg/L			20:34:44
1	Ag 328.068†	57310.0	60296.7	0.2020	mg/L	0.2020	mg/L	20:34:49
1	Al 237.313†	16045.0	16430.5	1.886	mg/L	1.886	mg/L	20:34:49
1	As 188.979†	12.7	6.0	0.0068	mg/L	0.0068	mg/L	20:35:10
1	B 182.528†	-4.4	2.4	0.0051	mg/L	0.0051	mg/L	20:35:10
1	Ba 233.527†	6067.2	6305.0	0.0519	mg/L	0.0519	mg/L	20:34:49
1	Be 313.107†	1923.1	1614.3	0.0005	mg/L	0.0005	mg/L	20:34:49
1	Ca 315.886†	157406.6	156832.6	0.9275	mg/L	0.9275	mg/L	20:34:44
1	Cd 228.802†	783.2	643.2	0.0139	mg/L	0.0139	mg/L	20:35:10
1	Co 228.616†	-76.4	120.2	0.0014	mg/L	0.0014	mg/L	20:35:10
1	Cr 267.716†	89667.2	88749.2	0.5121	mg/L	0.5121	mg/L	20:34:49
1	Cu 324.752†	1971097.7	1990247.9	7.790	mg/L	7.790	mg/L	20:34:44
1	Fe 234.349†	394038.0	396959.1	7.058	mg/L	7.058	mg/L	20:34:44
1	Fe 238.204†	864852.3	873581.5	7.073	mg/L	7.073	mg/L	20:34:44
1	Mg 279.077†	19824.3	19398.5	0.7262	mg/L	0.7262	mg/L	20:34:49
1	Mn 257.610†	137679.9	137794.8	0.1449	mg/L	0.1449	mg/L	20:34:49
1	Mo 202.031†	295.5	281.1	0.0168	mg/L	0.0168	mg/L	20:35:10
1	Ni 231.604†	1868.0	1855.8	0.0491	mg/L	0.0491	mg/L	20:34:49
1	P 214.914†	2936.9	2909.4	1.910	mg/L	1.910	mg/L	20:34:49
1	Pb 220.353†	18550.1	18917.0	1.959	mg/L	1.959	mg/L	20:34:49
1	Sb 206.836†	59.9	55.7	0.0152	mg/L	0.0152	mg/L	20:35:10
1	Se 196.026†	3.5	13.7	0.0117	mg/L	0.0117	mg/L	20:35:10
1	Sn 189.927†	2887.5	2704.5	0.6299	mg/L	0.6299	mg/L	20:35:10
1	Sr 407.771†	211401.6	207444.2	0.0081	mg/L	0.0081	mg/L	20:34:44
1	Ti 337.279†	75340.1	78411.8	0.0870	mg/L	0.0870	mg/L	20:34:49
1	Tl 190.801†	1.2	17.2	0.0321	mg/L	0.0321	mg/L	20:35:10
1	V 292.402†	114591.9	117451.4	0.4506	mg/L	0.4506	mg/L	20:34:49
1	Zn 213.857†	75928.2	76008.2	0.8585	mg/L	0.8585	mg/L	20:34:49
2	K 766.490†	1301.1	650.9	0.3231	mg/L	0.3231	mg/L	20:34:35
2	Li 670.784†	346.4	196.6	0.0008	mg/L	0.0008	mg/L	20:34:35
2	Na 589.592	15159.2	6035.6	0.5355	mg/L	0.5355	mg/L	20:34:35
2	Y 371.029	3803786.3	3803786.3	0.990	mg/L			20:35:16
2	Ag 328.068†	57420.4	60374.3	0.2023	mg/L	0.2023	mg/L	20:35:22
2	Al 237.313†	16133.0	16510.0	1.895	mg/L	1.895	mg/L	20:35:22
2	As 188.979†	13.7	6.9	0.0080	mg/L	0.0080	mg/L	20:35:42
2	B 182.528†	0.4	7.3	0.0146	mg/L	0.0146	mg/L	20:35:42
2	Ba 233.527†	6123.4	6358.2	0.0523	mg/L	0.0523	mg/L	20:35:22
2	Be 313.107†	1847.1	1536.2	0.0005	mg/L	0.0005	mg/L	20:35:22
2	Ca 315.886†	157146.5	156476.7	0.9253	mg/L	0.9253	mg/L	20:35:16
2	Cd 228.802†	771.6	631.1	0.0136	mg/L	0.0136	mg/L	20:35:42
2	Co 228.616†	-82.3	114.3	0.0013	mg/L	0.0013	mg/L	20:35:42
2	Cr 267.716†	89816.6	88847.1	0.5127	mg/L	0.5127	mg/L	20:35:22
2	Cu 324.752†	1972283.2	1990280.3	7.790	mg/L	7.790	mg/L	20:35:16
2	Fe 234.349†	393972.8	396660.2	7.053	mg/L	7.053	mg/L	20:35:16
2	Fe 238.204†	864098.1	872307.8	7.063	mg/L	7.063	mg/L	20:35:16
2	Mg 279.077†	19826.4	19388.9	0.7258	mg/L	0.7258	mg/L	20:35:22
2	Mn 257.610†	137659.8	137693.1	0.1448	mg/L	0.1448	mg/L	20:35:22
2	Mo 202.031†	278.2	263.4	0.0157	mg/L	0.0157	mg/L	20:35:42
2	Ni 231.604†	1893.3	1880.2	0.0498	mg/L	0.0498	mg/L	20:35:22
2	P 214.914†	2819.1	2788.6	1.831	mg/L	1.831	mg/L	20:35:22
2	Pb 220.353†	18577.6	18933.8	1.961	mg/L	1.961	mg/L	20:35:22
2	Sb 206.836†	53.8	49.5	0.0125	mg/L	0.0125	mg/L	20:35:42
2	Se 196.026†	-3.2	6.9	0.0044	mg/L	0.0044	mg/L	20:35:42
2	Sn 189.927†	2891.8	2707.1	0.6305	mg/L	0.6305	mg/L	20:35:42
2	Sr 407.771†	211355.5	207272.6	0.0081	mg/L	0.0081	mg/L	20:35:16

2	Ti 337.279†	75950.2	78983.8	0.0877 mg/L	0.0877 mg/L	20:35:22
2	Tl 190.801†	-5.6	10.4	0.0268 mg/L	0.0268 mg/L	20:35:42
2	V 292.402†	114845.2	117639.6	0.4513 mg/L	0.4513 mg/L	20:35:22
2	Zn 213.857†	76146.0	76183.4	0.8604 mg/L	0.8604 mg/L	20:35:22

Mean Data: BF60721-DUP1X20

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	3802674.0	0.989	mg/L	0.0004				0.04%
Ag 328.068†	60335.5	0.2021	mg/L	0.00018	0.2021	mg/L	0.00018	0.09%
Al 237.313†	16470.2	1.890	mg/L	0.0066	1.890	mg/L	0.0066	0.35%
As 188.979†	6.4	0.0074	mg/L	0.00084	0.0074	mg/L	0.00084	11.35%
B 182.528†	4.9	0.0099	mg/L	0.00672	0.0099	mg/L	0.00672	68.07%
Ba 233.527†	6331.6	0.0521	mg/L	0.00031	0.0521	mg/L	0.00031	0.59%
Be 313.107†	1575.2	0.0005	mg/L	0.00001	0.0005	mg/L	0.00001	2.30%
Ca 315.886†	156654.7	0.9264	mg/L	0.00150	0.9264	mg/L	0.00150	0.16%
Cd 228.802†	637.1	0.0137	mg/L	0.00019	0.0137	mg/L	0.00019	1.37%
Co 228.616†	117.2	0.0014	mg/L	0.00010	0.0014	mg/L	0.00010	7.26%
Cr 267.716†	88798.1	0.5124	mg/L	0.00040	0.5124	mg/L	0.00040	0.08%
Cu 324.752†	1990264.1	7.790	mg/L	0.0001	7.790	mg/L	0.0001	0.00%
Fe 234.349†	396809.7	7.055	mg/L	0.0038	7.055	mg/L	0.0038	0.05%
Fe 238.204†	872944.6	7.068	mg/L	0.0073	7.068	mg/L	0.0073	0.10%
K 766.490†	666.9	0.3308	mg/L	0.01091	0.3308	mg/L	0.01091	3.30%
Li 670.784†	171.1	0.0001	mg/L	0.00093	0.0001	mg/L	0.00093	797.38%
Mg 279.077†	19393.7	0.7260	mg/L	0.00026	0.7260	mg/L	0.00026	0.04%
Mn 257.610†	137743.9	0.1448	mg/L	0.00008	0.1448	mg/L	0.00008	0.05%
Mo 202.031†	272.2	0.0163	mg/L	0.00078	0.0163	mg/L	0.00078	4.78%
Na 589.592	5937.5	0.5237	mg/L	0.01671	0.5237	mg/L	0.01671	3.19%
Ni 231.604†	1868.0	0.0495	mg/L	0.00049	0.0495	mg/L	0.00049	0.98%
P 214.914†	2849.0	1.870	mg/L	0.0554	1.870	mg/L	0.0554	2.96%
Pb 220.353†	18925.4	1.960	mg/L	0.0012	1.960	mg/L	0.0012	0.06%
Sb 206.836†	52.6	0.0139	mg/L	0.00195	0.0139	mg/L	0.00195	14.09%
Se 196.026†	10.3	0.0080	mg/L	0.00520	0.0080	mg/L	0.00520	64.58%
Sn 189.927†	2705.8	0.6302	mg/L	0.00044	0.6302	mg/L	0.00044	0.07%
Sr 407.771†	207358.4	0.0081	mg/L	0.00000	0.0081	mg/L	0.00000	0.06%
Ti 337.279†	78697.8	0.0873	mg/L	0.00045	0.0873	mg/L	0.00045	0.52%
Tl 190.801†	13.8	0.0295	mg/L	0.00374	0.0295	mg/L	0.00374	12.69%
V 292.402†	117545.5	0.4510	mg/L	0.00050	0.4510	mg/L	0.00050	0.11%
Zn 213.857†	76095.8	0.8595	mg/L	0.00140	0.8595	mg/L	0.00140	0.16%

Duplicate Check: BF60721-DUP1X20

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	0.3610	0.3308	0.011	mg/L	8.7
Li 670.784	-0.0009	0.0001	0.001	mg/L	-263.4
Na 589.592	0.6529	0.5237	0.017	mg/L	22.0
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.2507	0.2021	0.000	mg/L	21.4
Al 237.313	2.087	1.890	0.007	mg/L	9.9
As 188.979	0.0067	0.0074	0.001	mg/L	9.8
B 182.528	0.0090	0.0099	0.007	mg/L	8.8
Ba 233.527	0.0487	0.0521	0.000	mg/L	6.8
Be 313.107	0.0006	0.0005	0.000	mg/L	11.3
Ca 315.886	1.006	0.9264	0.002	mg/L	8.2
Cd 228.802	0.0152	0.0137	0.000	mg/L	9.9
Co 228.616	0.0014	0.0014	0.000	mg/L	2.0
Cr 267.716	0.5361	0.5124	0.000	mg/L	4.5
Cu 324.752	8.441	7.790	0.000	mg/L	8.0
Fe 234.349	8.120	7.055	0.004	mg/L	14.0
Fe 238.204	8.146	7.068	0.007	mg/L	14.2
Mg 279.077	0.7931	0.7260	0.000	mg/L	8.8
Mn 257.610	0.1193	0.1448	0.000	mg/L	19.3
Mo 202.031	0.0158	0.0163	0.001	mg/L	2.7
Ni 231.604	0.0366	0.0495	0.000	mg/L	29.8
P 214.914	1.935	1.870	0.055	mg/L	3.4
Pb 220.353	2.064	1.960	0.001	mg/L	5.2
Sb 206.836	0.0136	0.0139	0.002	mg/L	1.9
Se 196.026	0.0017	0.0080	0.005	mg/L	128.8
Sn 189.927	0.7126	0.6302	0.000	mg/L	12.3
Sr 407.771	0.0085	0.0147	0.000	mg/L	5.0

Ti 337.279	0.0981	0.0873	0.000	mg/L	11.7
Tl 190.801	0.0331	0.0295	0.004	mg/L	11.6
V 292.402	0.4280	0.4510	0.000	mg/L	5.2
Zn 213.857	0.9304	0.8595	0.001	mg/L	7.9

Sequence No.: 49
Sample ID: BF60721-MS1X20
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 47
Date Collected: 6/7/2006 8:37:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60721-MS1X20

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	3524.8	2938.6	1.424	mg/L	1.424	mg/L	20:38:54
1	Li 670.784†	1095.4	966.2	0.0207	mg/L	0.0207	mg/L	20:38:54
1	Na 589.592	23055.6	13932.0	1.486	mg/L	1.486	mg/L	20:38:54
1	Y 371.029	3761040.3	3761040.3	0.978	mg/L			20:39:10
1	Ag 328.068†	57917.9	61542.3	0.2062	mg/L	0.2062	mg/L	20:39:15
1	Al 237.313†	18776.8	19397.4	2.229	mg/L	2.229	mg/L	20:39:15
1	As 188.979†	30.6	24.4	0.0296	mg/L	0.0296	mg/L	20:39:35
1	B 182.528†	6.7	13.7	0.0272	mg/L	0.0272	mg/L	20:39:35
1	Ba 233.527†	7308.6	7639.9	0.0629	mg/L	0.0629	mg/L	20:39:15
1	Be 313.107†	12747.0	12697.9	0.0028	mg/L	0.0028	mg/L	20:39:15
1	Ca 315.886†	190691.0	192566.3	1.141	mg/L	1.141	mg/L	20:39:10
1	Cd 228.802†	1661.4	1549.3	0.0331	mg/L	0.0331	mg/L	20:39:35
1	Co 228.616†	857.7	1074.1	0.0236	mg/L	0.0236	mg/L	20:39:35
1	Cr 267.716†	112828.7	113398.6	0.6545	mg/L	0.6545	mg/L	20:39:15
1	Cu 324.752†	2213052.6	2259015.5	8.842	mg/L	8.842	mg/L	20:39:10
1	Fe 234.349†	417103.0	424825.8	7.553	mg/L	7.553	mg/L	20:39:10
1	Fe 238.204†	916663.7	935958.1	7.579	mg/L	7.579	mg/L	20:39:10
1	Mg 279.077†	27172.9	27125.2	1.022	mg/L	1.022	mg/L	20:39:15
1	Mn 257.610†	192044.5	194858.9	0.2060	mg/L	0.2060	mg/L	20:39:10
1	Mo 202.031†	768.7	767.9	0.0470	mg/L	0.0470	mg/L	20:39:35
1	Ni 231.604†	2315.7	2333.7	0.0626	mg/L	0.0626	mg/L	20:39:15
1	P 214.914†	3413.4	3428.4	2.247	mg/L	2.247	mg/L	20:39:15
1	Pb 220.353†	21337.9	21968.4	2.275	mg/L	2.275	mg/L	20:39:15
1	Sb 206.836†	103.3	100.6	0.0321	mg/L	0.0321	mg/L	20:39:35
1	Se 196.026†	35.0	45.9	0.0465	mg/L	0.0465	mg/L	20:39:35
1	Sn 189.927†	3265.5	3122.3	0.7279	mg/L	0.7279	mg/L	20:39:35
1	Sr 407.771†	252557.9	251811.7	0.0099	mg/L	0.0099	mg/L	20:39:10
1	Ti 337.279†	112456.4	117167.9	0.1305	mg/L	0.1305	mg/L	20:39:15
1	Tl 190.801†	25.8	42.4	0.0526	mg/L	0.0526	mg/L	20:39:35
1	V 292.402†	105845.7	109760.7	0.4213	mg/L	0.4213	mg/L	20:39:15
1	Zn 213.857†	74864.1	75747.7	0.8553	mg/L	0.8553	mg/L	20:39:15
2	K 766.490†	3592.3	2968.3	1.439	mg/L	1.439	mg/L	20:39:00
2	Li 670.784†	1171.4	1031.0	0.0224	mg/L	0.0224	mg/L	20:39:00
2	Na 589.592	23226.5	14102.9	1.507	mg/L	1.507	mg/L	20:39:00
2	Y 371.029	3801775.8	3801775.8	0.989	mg/L			20:39:42
2	Ag 328.068†	57764.7	60753.2	0.2036	mg/L	0.2036	mg/L	20:39:47
2	Al 237.313†	18693.6	19107.7	2.195	mg/L	2.195	mg/L	20:39:47
2	As 188.979†	26.5	19.9	0.0241	mg/L	0.0241	mg/L	20:40:08
2	B 182.528†	5.6	12.6	0.0249	mg/L	0.0249	mg/L	20:40:08
2	Ba 233.527†	7308.6	7559.9	0.0623	mg/L	0.0623	mg/L	20:39:47
2	Be 313.107†	12709.5	12520.4	0.0028	mg/L	0.0028	mg/L	20:39:47
2	Ca 315.886†	193249.0	193064.4	1.144	mg/L	1.144	mg/L	20:39:42
2	Cd 228.802†	1668.5	1538.3	0.0329	mg/L	0.0329	mg/L	20:40:08
2	Co 228.616†	871.4	1078.5	0.0237	mg/L	0.0237	mg/L	20:40:08
2	Cr 267.716†	112400.4	111729.9	0.6449	mg/L	0.6449	mg/L	20:39:47
2	Cu 324.752†	2222773.7	2244608.9	8.786	mg/L	8.786	mg/L	20:39:42
2	Fe 234.349†	424018.1	427250.0	7.596	mg/L	7.596	mg/L	20:39:42
2	Fe 238.204†	929662.1	939062.3	7.604	mg/L	7.604	mg/L	20:39:42
2	Mg 279.077†	27115.8	26769.9	1.009	mg/L	1.009	mg/L	20:39:47
2	Mn 257.610†	194310.9	195047.3	0.2062	mg/L	0.2062	mg/L	20:39:42
2	Mo 202.031†	760.9	751.5	0.0460	mg/L	0.0460	mg/L	20:40:08
2	Ni 231.604†	2305.8	2298.3	0.0616	mg/L	0.0616	mg/L	20:39:47
2	P 214.914†	3512.1	3490.9	2.287	mg/L	2.287	mg/L	20:39:47
2	Pb 220.353†	21267.1	21663.1	2.244	mg/L	2.244	mg/L	20:39:47
2	Sb 206.836†	125.1	121.6	0.0416	mg/L	0.0416	mg/L	20:40:08
2	Se 196.026†	37.0	47.5	0.0482	mg/L	0.0482	mg/L	20:40:08

2	Sn 189.927†	3272.0	3093.2	0.7211 mg/L	0.7211 mg/L	20:40:08
2	Sr 407.771†	254964.3	251479.0	0.0099 mg/L	0.0099 mg/L	20:39:42
2	Ti 337.279†	112556.4	116037.4	0.1292 mg/L	0.1292 mg/L	20:39:47
2	Tl 190.801†	29.9	46.3	0.0556 mg/L	0.0556 mg/L	20:40:08
2	V 292.402†	105307.5	108057.3	0.4148 mg/L	0.4148 mg/L	20:39:47
2	Zn 213.857†	74683.3	74745.2	0.8440 mg/L	0.8440 mg/L	20:39:47

Mean Data: BF60721-MS1X20

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3781408.0	0.984	mg/L	0.0075				0.76%
Ag 328.068†	61147.8	0.2049	mg/L	0.00187	0.2049	mg/L	0.00187	0.91%
Al 237.313†	19252.6	2.212	mg/L	0.0240	2.212	mg/L	0.0240	1.08%
As 188.979†	22.1	0.0268	mg/L	0.00387	0.0268	mg/L	0.00387	14.42%
B 182.528†	13.2	0.0261	mg/L	0.00161	0.0261	mg/L	0.00161	6.18%
Ba 233.527†	7599.9	0.0626	mg/L	0.00046	0.0626	mg/L	0.00046	0.74%
Be 313.107†	12609.1	0.0028	mg/L	0.00003	0.0028	mg/L	0.00003	0.94%
Ca 315.886†	192815.4	1.143	mg/L	0.0021	1.143	mg/L	0.0021	0.18%
Cd 228.802†	1543.8	0.0330	mg/L	0.00014	0.0330	mg/L	0.00014	0.43%
Co 228.616†	1076.3	0.0237	mg/L	0.00007	0.0237	mg/L	0.00007	0.32%
Cr 267.716†	112564.2	0.6497	mg/L	0.00681	0.6497	mg/L	0.00681	1.05%
Cu 324.752†	2251812.2	8.814	mg/L	0.0399	8.814	mg/L	0.0399	0.45%
Fe 234.349†	426037.9	7.575	mg/L	0.0305	7.575	mg/L	0.0305	0.40%
Fe 238.204†	937510.2	7.591	mg/L	0.0178	7.591	mg/L	0.0178	0.23%
K 766.490†	2953.4	1.432	mg/L	0.0101	1.432	mg/L	0.0101	0.71%
Li 670.784†	998.6	0.0215	mg/L	0.00119	0.0215	mg/L	0.00119	5.51%
Mg 279.077†	26947.5	1.015	mg/L	0.0096	1.015	mg/L	0.0096	0.95%
Mn 257.610†	194953.1	0.2061	mg/L	0.00014	0.2061	mg/L	0.00014	0.07%
Mo 202.031†	759.7	0.0465	mg/L	0.00072	0.0465	mg/L	0.00072	1.54%
Na 589.592	14017.5	1.496	mg/L	0.0145	1.496	mg/L	0.0145	0.97%
Ni 231.604†	2316.0	0.0621	mg/L	0.00070	0.0621	mg/L	0.00070	1.13%
P 214.914†	3459.7	2.267	mg/L	0.0287	2.267	mg/L	0.0287	1.26%
Pb 220.353†	21815.7	2.259	mg/L	0.0224	2.259	mg/L	0.0224	0.99%
Sb 206.836†	111.1	0.0369	mg/L	0.00672	0.0369	mg/L	0.00672	18.24%
Se 196.026†	46.7	0.0473	mg/L	0.00122	0.0473	mg/L	0.00122	2.57%
Sn 189.927†	3107.7	0.7245	mg/L	0.00484	0.7245	mg/L	0.00484	0.67%
Sr 407.771†	251645.3	0.0099	mg/L	0.00001	0.0099	mg/L	0.00001	0.10%
Ti 337.279†	116602.6	0.1298	mg/L	0.00090	0.1298	mg/L	0.00090	0.69%
Tl 190.801†	44.4	0.0541	mg/L	0.00214	0.0541	mg/L	0.00214	3.95%
V 292.402†	108909.0	0.4180	mg/L	0.00464	0.4180	mg/L	0.00464	1.11%
Zn 213.857†	75246.4	0.8497	mg/L	0.00802	0.8497	mg/L	0.00802	0.94%

Matrix Recovery Check: BF60721-MS1X20

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	25.36	1.432	0.010	mg/L	4.3
Li 670.784	0.4991	0.0215	0.001	mg/L	4.5
Na 589.592	25.65	1.496	0.015	mg/L	3.4
Ag 328.068	0.5007	0.2049	0.002	mg/L	-18.3
Al 237.313	4.587	2.212	0.024	mg/L	5.0
As 188.979	0.5067	0.0268	0.004	mg/L	4.0
B 182.528	0.5090	0.0261	0.002	mg/L	3.4
Ba 233.527	0.5487	0.0626	0.000	mg/L	2.8
Be 313.107	0.0506	0.0028	0.000	mg/L	4.4
Ca 315.886	6.006	1.143	0.002	mg/L	2.7
Cd 228.802	0.2652	0.0330	0.000	mg/L	7.1
Co 228.616	0.5014	0.0237	0.000	mg/L	4.5
Cr 267.716	1.036	0.6497	0.007	mg/L	22.7
Cu 324.752	8.941	8.814	0.040	mg/L	74.6
Fe 234.349	10.62	7.575	0.030	mg/L	-21.8
Fe 238.204	10.65	7.591	0.018	mg/L	-22.2
Mg 279.077	5.793	1.015	0.010	mg/L	4.4
Mn 257.610	0.6193	0.2061	0.000	mg/L	17.4
Mo 202.031	0.5158	0.0465	0.001	mg/L	6.1
Ni 231.604	0.5366	0.0621	0.001	mg/L	5.1
P 214.914	6.935	2.267	0.029	mg/L	6.6
Pb 220.353	2.564	2.259	0.022	mg/L	39.2
Sb 206.836	0.5136	0.0369	0.007	mg/L	4.6
Se 196.026	1.002	0.0473	0.001	mg/L	4.6
Sn 189.927	1.213	0.7245	0.005	mg/L	2.4

Sr 407.771	0.0585	0.0099	0.000	mg/L	2.8
Ti 337.279	0.5981	0.1298	0.001	mg/L	6.3
Tl 190.801	0.5331	0.0541	0.002	mg/L	4.2
V 292.402	0.9280	0.4180	0.005	mg/L	-2.0
Zn 213.857	1.430	0.8497	0.008	mg/L	-16.1

Sequence No.: 50
Sample ID: BF60721-MSD1X20
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 48
Date Collected: 6/7/2006 8:41:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60721-MSD1X20

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	3649.5	3012.2	1.460	mg/L	1.460	mg/L	20:43:23
1	Li 670.784†	1133.8	988.6	0.0213	mg/L	0.0213	mg/L	20:43:23
1	Na 589.592	22987.9	13864.4	1.478	mg/L	1.478	mg/L	20:43:23
1	Y 371.029	3816204.0	3816204.0	0.993	mg/L			20:43:39
1	Ag 328.068†	62495.3	65297.4	0.2188	mg/L	0.2188	mg/L	20:43:44
1	Al 237.313†	21396.0	21758.3	2.498	mg/L	2.498	mg/L	20:43:44
1	As 188.979†	32.5	25.9	0.0313	mg/L	0.0313	mg/L	20:44:04
1	B 182.528†	10.8	17.8	0.0351	mg/L	0.0351	mg/L	20:44:04
1	Ba 233.527†	7921.6	8149.4	0.0670	mg/L	0.0670	mg/L	20:43:44
1	Be 313.107†	13344.3	13111.2	0.0029	mg/L	0.0029	mg/L	20:43:44
1	Ca 315.886†	221191.1	220471.6	1.309	mg/L	1.309	mg/L	20:43:39
1	Cd 228.802†	1457.0	1318.9	0.0282	mg/L	0.0282	mg/L	20:44:04
1	Co 228.616†	896.3	1100.3	0.0242	mg/L	0.0242	mg/L	20:44:04
1	Cr 267.716†	112727.3	111629.5	0.6444	mg/L	0.6444	mg/L	20:43:44
1	Cu 324.752†	2395428.6	2410025.5	9.433	mg/L	9.433	mg/L	20:43:39
1	Fe 234.349†	494241.3	496364.2	8.826	mg/L	8.826	mg/L	20:43:39
1	Fe 238.204†	1083106.5	1090071.6	8.827	mg/L	8.827	mg/L	20:43:39
1	Mg 279.077†	31040.1	30619.2	1.155	mg/L	1.155	mg/L	20:43:44
1	Mn 257.610†	140080.1	139678.3	0.1469	mg/L	0.1469	mg/L	20:43:44
1	Mo 202.031†	623.4	610.2	0.0372	mg/L	0.0372	mg/L	20:44:04
1	Ni 231.604†	2583.1	2568.9	0.0692	mg/L	0.0692	mg/L	20:43:44
1	P 214.914†	3590.6	3556.5	2.330	mg/L	2.330	mg/L	20:43:44
1	Pb 220.353†	20693.6	21004.1	2.175	mg/L	2.175	mg/L	20:43:44
1	Sb 206.836†	108.2	104.0	0.0344	mg/L	0.0344	mg/L	20:44:04
1	Se 196.026†	38.8	49.2	0.0500	mg/L	0.0500	mg/L	20:44:04
1	Sn 189.927†	3695.7	3507.4	0.8183	mg/L	0.8183	mg/L	20:44:04
1	Sr 407.771†	276941.7	272642.0	0.0107	mg/L	0.0107	mg/L	20:43:39
1	Ti 337.279†	124264.6	127400.7	0.1420	mg/L	0.1420	mg/L	20:43:39
1	Tl 190.801†	22.9	39.1	0.0484	mg/L	0.0484	mg/L	20:44:04
1	V 292.402†	141038.5	143646.2	0.5512	mg/L	0.5512	mg/L	20:43:39
1	Zn 213.857†	89293.6	89176.4	1.007	mg/L	1.007	mg/L	20:43:44
2	K 766.490†	3677.9	3081.9	1.493	mg/L	1.493	mg/L	20:43:29
2	Li 670.784†	1151.6	1019.4	0.0221	mg/L	0.0221	mg/L	20:43:29
2	Na 589.592	23037.3	13913.7	1.484	mg/L	1.484	mg/L	20:43:29
2	Y 371.029	3774291.2	3774291.2	0.982	mg/L			20:44:11
2	Ag 328.068†	62775.7	66282.1	0.2221	mg/L	0.2221	mg/L	20:44:16
2	Al 237.313†	21574.0	22178.9	2.547	mg/L	2.547	mg/L	20:44:16
2	As 188.979†	32.4	26.1	0.0315	mg/L	0.0315	mg/L	20:44:37
2	B 182.528†	7.3	14.3	0.0284	mg/L	0.0284	mg/L	20:44:37
2	Ba 233.527†	8020.9	8339.1	0.0686	mg/L	0.0686	mg/L	20:44:16
2	Be 313.107†	13413.1	13330.5	0.0029	mg/L	0.0029	mg/L	20:44:16
2	Ca 315.886†	218306.8	220008.2	1.306	mg/L	1.306	mg/L	20:44:11
2	Cd 228.802†	1436.2	1314.0	0.0281	mg/L	0.0281	mg/L	20:44:37
2	Co 228.616†	906.7	1120.9	0.0247	mg/L	0.0247	mg/L	20:44:37
2	Cr 267.716†	113968.8	114154.9	0.6590	mg/L	0.6590	mg/L	20:44:16
2	Cu 324.752†	2379744.1	2420845.8	9.476	mg/L	9.476	mg/L	20:44:11
2	Fe 234.349†	485893.2	493390.4	8.773	mg/L	8.773	mg/L	20:44:11
2	Fe 238.204†	1066484.4	1085257.8	8.788	mg/L	8.788	mg/L	20:44:11
2	Mg 279.077†	31233.7	31163.5	1.176	mg/L	1.176	mg/L	20:44:16
2	Mn 257.610†	141353.8	142542.4	0.1500	mg/L	0.1500	mg/L	20:44:16
2	Mo 202.031†	618.1	611.8	0.0373	mg/L	0.0373	mg/L	20:44:37
2	Ni 231.604†	2600.8	2615.7	0.0705	mg/L	0.0705	mg/L	20:44:16
2	P 214.914†	3617.4	3624.0	2.374	mg/L	2.374	mg/L	20:44:16
2	Pb 220.353†	20807.6	21351.7	2.211	mg/L	2.211	mg/L	20:44:16
2	Sb 206.836†	116.8	114.0	0.0385	mg/L	0.0385	mg/L	20:44:37

2	Se 196.026†	38.9	49.8	0.0507 mg/L	0.0507 mg/L	20:44:37
2	Sn 189.927†	3650.9	3503.1	0.8173 mg/L	0.8173 mg/L	20:44:37
2	Sr 407.771†	274156.8	272903.4	0.0107 mg/L	0.0107 mg/L	20:44:11
2	Ti 337.279†	122936.8	127438.3	0.1420 mg/L	0.1420 mg/L	20:44:11
2	Tl 190.801†	31.0	47.6	0.0550 mg/L	0.0550 mg/L	20:44:37
2	V 292.402†	139506.6	143663.7	0.5513 mg/L	0.5513 mg/L	20:44:11
2	Zn 213.857†	90110.0	91006.8	1.028 mg/L	1.028 mg/L	20:44:16

Mean Data: BF60721-MSD1X20

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3795247.6	0.987	mg/L	0.0077				0.78%
Ag 328.068†	65789.8	0.2205	mg/L	0.00233	0.2205	mg/L	0.00233	1.06%
Al 237.313†	21968.6	2.523	mg/L	0.0348	2.523	mg/L	0.0348	1.38%
As 188.979†	26.0	0.0314	mg/L	0.00014	0.0314	mg/L	0.00014	0.46%
B 182.528†	16.1	0.0318	mg/L	0.00476	0.0318	mg/L	0.00476	14.97%
Ba 233.527†	8244.3	0.0678	mg/L	0.00110	0.0678	mg/L	0.00110	1.63%
Be 313.107†	13220.9	0.0029	mg/L	0.00003	0.0029	mg/L	0.00003	1.19%
Ca 315.886†	220239.9	1.307	mg/L	0.0020	1.307	mg/L	0.0020	0.15%
Cd 228.802†	1316.5	0.0281	mg/L	0.00007	0.0281	mg/L	0.00007	0.26%
Co 228.616†	1110.6	0.0245	mg/L	0.00034	0.0245	mg/L	0.00034	1.39%
Cr 267.716†	112892.2	0.6517	mg/L	0.01031	0.6517	mg/L	0.01031	1.58%
Cu 324.752†	2415435.6	9.455	mg/L	0.0299	9.455	mg/L	0.0299	0.32%
Fe 234.349†	494877.3	8.799	mg/L	0.0374	8.799	mg/L	0.0374	0.43%
Fe 238.204†	1087664.7	8.808	mg/L	0.0276	8.808	mg/L	0.0276	0.31%
K 766.490†	3047.1	1.477	mg/L	0.0237	1.477	mg/L	0.0237	1.61%
Li 670.784†	1004.0	0.0217	mg/L	0.00056	0.0217	mg/L	0.00056	2.61%
Mg 279.077†	30891.4	1.165	mg/L	0.0148	1.165	mg/L	0.0148	1.27%
Mn 257.610†	141110.4	0.1485	mg/L	0.00217	0.1485	mg/L	0.00217	1.46%
Mo 202.031†	611.0	0.0373	mg/L	0.00007	0.0373	mg/L	0.00007	0.18%
Na 589.592	13889.0	1.481	mg/L	0.0042	1.481	mg/L	0.0042	0.28%
Ni 231.604†	2592.3	0.0698	mg/L	0.00093	0.0698	mg/L	0.00093	1.33%
P 214.914†	3590.2	2.352	mg/L	0.0310	2.352	mg/L	0.0310	1.32%
Pb 220.353†	21177.9	2.193	mg/L	0.0255	2.193	mg/L	0.0255	1.16%
Sb 206.836†	109.0	0.0364	mg/L	0.00293	0.0364	mg/L	0.00293	8.04%
Se 196.026†	49.5	0.0503	mg/L	0.00046	0.0503	mg/L	0.00046	0.91%
Sn 189.927†	3505.3	0.8178	mg/L	0.00072	0.8178	mg/L	0.00072	0.09%
Sr 407.771†	272772.7	0.0107	mg/L	0.00001	0.0107	mg/L	0.00001	0.07%
Ti 337.279†	127419.5	0.1420	mg/L	0.00003	0.1420	mg/L	0.00003	0.02%
Tl 190.801†	43.3	0.0517	mg/L	0.00467	0.0517	mg/L	0.00467	9.03%
V 292.402†	143655.0	0.5512	mg/L	0.00005	0.5512	mg/L	0.00005	0.01%
Zn 213.857†	90091.6	1.018	mg/L	0.0146	1.018	mg/L	0.0146	1.44%

Duplicate Check: BF60721-MSD1X20

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	1.432	1.477	0.024	mg/L	3.1
Li 670.784	0.0215	0.0217	0.001	mg/L	0.7
Na 589.592	1.496	1.481	0.004	mg/L	1.0
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.2049	0.2205	0.002	mg/L	7.3
Al 237.313	2.212	2.523	0.035	mg/L	13.1
As 188.979	0.0268	0.0314	0.000	mg/L	15.7
B 182.528	0.0261	0.0318	0.005	mg/L	19.6
Ba 233.527	0.0626	0.0678	0.001	mg/L	8.0
Be 313.107	0.0028	0.0029	0.000	mg/L	3.9
Ca 315.886	1.143	1.307	0.002	mg/L	13.5
Cd 228.802	0.0330	0.0281	0.000	mg/L	15.9
Co 228.616	0.0237	0.0245	0.000	mg/L	3.2
Cr 267.716	0.6497	0.6517	0.010	mg/L	0.3
Cu 324.752	8.814	9.455	0.030	mg/L	7.0
Fe 234.349	7.575	8.799	0.037	mg/L	15.0
Fe 238.204	7.591	8.808	0.028	mg/L	14.8
Mg 279.077	1.015	1.165	0.015	mg/L	13.7
Mn 257.610	0.2061	0.1485	0.002	mg/L	32.5
Mo 202.031	0.0465	0.0373	0.000	mg/L	22.0
Ni 231.604	0.0621	0.0698	0.001	mg/L	11.8
P 214.914	2.267	2.352	0.031	mg/L	3.7
Pb 220.353	2.259	2.193	0.026	mg/L	3.0
Sb 206.836	0.0369	0.0364	0.003	mg/L	1.1

Se 196.026	0.0473	0.0503	0.000	mg/L	6.2
Sn 189.927	0.7245	0.8178	0.001	mg/L	12.1
Sr 407.771	0.0099	0.0107	0.000	mg/L	8.3
Ti 337.279	0.1298	0.1420	0.000	mg/L	8.9
Tl 190.801	0.0541	0.0517	0.005	mg/L	4.5
V 292.402	0.4180	0.5512	0.000	mg/L	27.5
Zn 213.857	0.8497	1.018	0.015	mg/L	18.0

Sequence No.: 51
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/7/2006 8:46:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	49393.4	50536.7	24.34	mg/L	24.34	mg/L	20:47:52
1	Li 670.784†	18665.9	19195.4	0.4923	mg/L	0.4923	mg/L	20:47:52
1	Na 589.592	215829.0	206705.4	24.69	mg/L	24.69	mg/L	20:47:52
1	Y 371.029	3708346.0	3708346.0	0.965	mg/L			20:48:07
1	Ag 328.068†	68679.6	73538.9	0.2464	mg/L	0.2464	mg/L	20:48:12
1	Al 237.313†	19866.7	20799.9	2.416	mg/L	2.416	mg/L	20:48:12
1	As 188.979†	369.6	376.3	0.4642	mg/L	0.4642	mg/L	20:48:32
1	B 182.528†	229.9	245.2	0.4794	mg/L	0.4794	mg/L	20:48:32
1	Ba 233.527†	57055.6	59313.2	0.4882	mg/L	0.4882	mg/L	20:48:12
1	Be 313.107†	226784.4	234751.7	0.0481	mg/L	0.0481	mg/L	20:48:12
1	Ca 315.886†	789568.7	816125.6	4.872	mg/L	4.872	mg/L	20:48:07
1	Cd 228.802†	11198.0	11458.9	0.2432	mg/L	0.2432	mg/L	20:48:32
1	Co 228.616†	19926.3	20852.8	0.4850	mg/L	0.4850	mg/L	20:48:12
1	Cr 267.716†	83061.0	84180.4	0.4852	mg/L	0.4852	mg/L	20:48:12
1	Cu 324.752†	125973.9	127714.2	0.4999	mg/L	0.4999	mg/L	20:48:12
1	Fe 234.349†	133471.3	136874.1	2.427	mg/L	2.427	mg/L	20:48:12
1	Fe 238.204†	291351.9	301079.9	2.436	mg/L	2.436	mg/L	20:48:12
1	Mg 279.077†	123467.4	127337.6	4.861	mg/L	4.861	mg/L	20:48:12
1	Mn 257.610†	447266.8	462208.5	0.4924	mg/L	0.4924	mg/L	20:48:07
1	Mo 202.031†	7548.4	7806.8	0.4835	mg/L	0.4835	mg/L	20:48:32
1	Ni 231.604†	17052.0	17642.8	0.4927	mg/L	0.4927	mg/L	20:48:12
1	P 214.914†	7124.3	7324.6	4.777	mg/L	4.777	mg/L	20:48:32
1	Pb 220.353†	4394.0	4714.5	0.4891	mg/L	0.4891	mg/L	20:48:32
1	Sb 206.836†	1062.0	1095.9	0.4763	mg/L	0.4763	mg/L	20:48:32
1	Se 196.026†	841.5	882.4	0.9487	mg/L	0.9487	mg/L	20:48:32
1	Sn 189.927†	2098.1	1959.6	0.4554	mg/L	0.4554	mg/L	20:48:32
1	Sr 407.771†	1188403.7	1225566.7	0.0495	mg/L	0.0495	mg/L	20:48:07
1	Ti 337.279†	419158.0	436724.4	0.4888	mg/L	0.4888	mg/L	20:48:07
1	Tl 190.801†	649.4	689.1	0.5542	mg/L	0.5542	mg/L	20:48:32
1	V 292.402†	120538.4	126528.1	0.4935	mg/L	0.4935	mg/L	20:48:12
1	Zn 213.857†	42040.7	42810.7	0.4809	mg/L	0.4809	mg/L	20:48:12
2	K 766.490†	50125.5	51333.9	24.72	mg/L	24.72	mg/L	20:47:57
2	Li 670.784†	18962.9	19517.8	0.5006	mg/L	0.5006	mg/L	20:47:57
2	Na 589.592	215020.7	205897.1	24.59	mg/L	24.59	mg/L	20:47:57
2	Y 371.029	3705613.8	3705613.8	0.964	mg/L			20:48:39
2	Ag 328.068†	68480.4	73384.9	0.2459	mg/L	0.2459	mg/L	20:48:45
2	Al 237.313†	19924.0	20874.5	2.424	mg/L	2.424	mg/L	20:48:45
2	As 188.979†	378.4	385.6	0.4757	mg/L	0.4757	mg/L	20:49:05
2	B 182.528†	229.3	244.7	0.4785	mg/L	0.4785	mg/L	20:49:05
2	Ba 233.527†	57013.7	59313.3	0.4882	mg/L	0.4882	mg/L	20:48:45
2	Be 313.107†	225893.6	234001.0	0.0479	mg/L	0.0479	mg/L	20:48:45
2	Ca 315.886†	790121.9	817302.9	4.879	mg/L	4.879	mg/L	20:48:39
2	Cd 228.802†	11244.7	11516.0	0.2443	mg/L	0.2443	mg/L	20:49:05
2	Co 228.616†	19932.8	20874.8	0.4855	mg/L	0.4855	mg/L	20:48:45
2	Cr 267.716†	82570.9	83735.5	0.4826	mg/L	0.4826	mg/L	20:48:45
2	Cu 324.752†	126000.7	127838.3	0.5004	mg/L	0.5004	mg/L	20:48:45
2	Fe 234.349†	133365.1	136866.0	2.427	mg/L	2.427	mg/L	20:48:45
2	Fe 238.204†	290939.7	300875.0	2.434	mg/L	2.434	mg/L	20:48:45
2	Mg 279.077†	123058.7	127008.0	4.848	mg/L	4.848	mg/L	20:48:45
2	Mn 257.610†	447353.8	462640.6	0.4929	mg/L	0.4929	mg/L	20:48:39
2	Mo 202.031†	7612.9	7879.5	0.4880	mg/L	0.4880	mg/L	20:49:05
2	Ni 231.604†	17147.6	17755.0	0.4958	mg/L	0.4958	mg/L	20:48:45
2	P 214.914†	7162.4	7369.6	4.806	mg/L	4.806	mg/L	20:49:05

2	Pb 220.353†	4390.5	4714.1	0.4891 mg/L	0.4891 mg/L	20:49:05
2	Sb 206.836†	1071.6	1106.7	0.4812 mg/L	0.4812 mg/L	20:49:05
2	Se 196.026†	850.2	892.1	0.9592 mg/L	0.9592 mg/L	20:49:05
2	Sn 189.927†	2100.1	1963.3	0.4563 mg/L	0.4563 mg/L	20:49:05
2	Sr 407.771†	1189489.0	1227600.8	0.0495 mg/L	0.0495 mg/L	20:48:39
2	Ti 337.279†	418841.3	436716.3	0.4888 mg/L	0.4888 mg/L	20:48:39
2	Tl 190.801†	645.2	685.3	0.5512 mg/L	0.5512 mg/L	20:49:05
2	V 292.402†	119644.9	125693.4	0.4904 mg/L	0.4904 mg/L	20:48:45
2	Zn 213.857†	42046.0	42848.3	0.4813 mg/L	0.4813 mg/L	20:48:45

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3706979.9	0.964	mg/L	0.0005				0.05%
Ag 328.068†	73461.9	0.2461	mg/L	0.00036	0.2461	mg/L	0.00036	0.15%
QC value within limits for Ag 328.068 Recovery = 98.44%								
Al 237.313†	20837.2	2.420	mg/L	0.0061	2.420	mg/L	0.0061	0.25%
QC value within limits for Al 237.313 Recovery = 96.79%								
As 188.979†	381.0	0.4700	mg/L	0.00819	0.4700	mg/L	0.00819	1.74%
QC value within limits for As 188.979 Recovery = 93.99%								
B 182.528†	244.9	0.4789	mg/L	0.00067	0.4789	mg/L	0.00067	0.14%
QC value within limits for B 182.528 Recovery = 95.79%								
Ba 233.527†	59313.3	0.4882	mg/L	0.00000	0.4882	mg/L	0.00000	0.00%
QC value within limits for Ba 233.527 Recovery = 97.64%								
Be 313.107†	234376.3	0.0480	mg/L	0.00011	0.0480	mg/L	0.00011	0.23%
QC value within limits for Be 313.107 Recovery = 96.03%								
Ca 315.886†	816714.2	4.875	mg/L	0.0050	4.875	mg/L	0.0050	0.10%
QC value within limits for Ca 315.886 Recovery = 97.51%								
Cd 228.802†	11487.5	0.2437	mg/L	0.00081	0.2437	mg/L	0.00081	0.33%
QC value within limits for Cd 228.802 Recovery = 97.50%								
Co 228.616†	20863.8	0.4852	mg/L	0.00036	0.4852	mg/L	0.00036	0.07%
QC value within limits for Co 228.616 Recovery = 97.04%								
Cr 267.716†	83957.9	0.4839	mg/L	0.00182	0.4839	mg/L	0.00182	0.38%
QC value within limits for Cr 267.716 Recovery = 96.77%								
Cu 324.752†	127776.2	0.5002	mg/L	0.00034	0.5002	mg/L	0.00034	0.07%
QC value within limits for Cu 324.752 Recovery = 100.04%								
Fe 234.349†	136870.1	2.427	mg/L	0.0001	2.427	mg/L	0.0001	0.01%
QC value within limits for Fe 234.349 Recovery = 97.08%								
Fe 238.204†	300977.5	2.435	mg/L	0.0012	2.435	mg/L	0.0012	0.05%
QC value within limits for Fe 238.204 Recovery = 97.40%								
K 766.490†	50935.3	24.53	mg/L	0.271	24.53	mg/L	0.271	1.11%
QC value within limits for K 766.490 Recovery = 98.12%								
Li 670.784†	19356.6	0.4964	mg/L	0.00590	0.4964	mg/L	0.00590	1.19%
QC value within limits for Li 670.784 Recovery = 99.29%								
Mg 279.077†	127172.8	4.855	mg/L	0.0089	4.855	mg/L	0.0089	0.18%
QC value within limits for Mg 279.077 Recovery = 97.09%								
Mn 257.610†	462424.5	0.4927	mg/L	0.00033	0.4927	mg/L	0.00033	0.07%
QC value within limits for Mn 257.610 Recovery = 98.53%								
Mo 202.031†	7843.2	0.4858	mg/L	0.00319	0.4858	mg/L	0.00319	0.66%
QC value within limits for Mo 202.031 Recovery = 97.15%								
Na 589.592	206301.2	24.64	mg/L	0.069	24.64	mg/L	0.069	0.28%
QC value within limits for Na 589.592 Recovery = 98.56%								
Ni 231.604†	17698.9	0.4942	mg/L	0.00223	0.4942	mg/L	0.00223	0.45%
QC value within limits for Ni 231.604 Recovery = 98.85%								
P 214.914†	7347.1	4.791	mg/L	0.0207	4.791	mg/L	0.0207	0.43%
QC value within limits for P 214.914 Recovery = 95.82%								
Pb 220.353†	4714.3	0.4891	mg/L	0.00002	0.4891	mg/L	0.00002	0.00%
QC value within limits for Pb 220.353 Recovery = 97.82%								
Sb 206.836†	1101.3	0.4788	mg/L	0.00341	0.4788	mg/L	0.00341	0.71%
QC value within limits for Sb 206.836 Recovery = 95.75%								
Se 196.026†	887.2	0.9540	mg/L	0.00740	0.9540	mg/L	0.00740	0.78%
QC value within limits for Se 196.026 Recovery = 95.40%								
Sn 189.927†	1961.4	0.4558	mg/L	0.00062	0.4558	mg/L	0.00062	0.14%
QC value within limits for Sn 189.927 Recovery = 91.16%								
Sr 407.771†	1226583.7	0.0495	mg/L	0.00006	0.0495	mg/L	0.00006	0.12%
QC value within limits for Sr 407.771 Recovery = 98.99%								
Ti 337.279†	436720.4	0.4888	mg/L	0.00001	0.4888	mg/L	0.00001	0.00%
QC value within limits for Ti 337.279 Recovery = 97.77%								
Tl 190.801†	687.2	0.5527	mg/L	0.00211	0.5527	mg/L	0.00211	0.38%
QC value greater than the upper limit for Tl 190.801 Recovery = 110.54%								
V 292.402†	126110.8	0.4919	mg/L	0.00221	0.4919	mg/L	0.00221	0.45%

QC value within limits for V 292.402 Recovery = 98.38%

Zn 213.857†	42829.5	0.4811 mg/L	0.00028	0.4811 mg/L	0.00028	0.06%

QC value within limits for Zn 213.857 Recovery = 96.23%

QC Failed. Continue with analysis.

Sequence No.: 52
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/7/2006 8:50:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	685.2	35.3	0.0267	mg/L	0.0267	mg/L	20:52:16
1	Li 670.784†	203.9	54.6	-0.0029	mg/L	-0.0029	mg/L	20:52:16
1	Na 589.592	9208.9	85.3	-0.1806	mg/L	-0.1806	mg/L	20:52:16
1	Y 371.029	3766946.6	3766946.6	0.980	mg/L			20:52:29
1	Ag 328.068†	-2095.7	207.9	0.0006	mg/L	0.0006	mg/L	20:52:34
1	Al 237.313†	-184.9	17.6	0.0073	mg/L	0.0073	mg/L	20:52:55
1	As 188.979†	8.1	1.4	0.0018	mg/L	0.0018	mg/L	20:52:55
1	B 182.528†	1.5	8.4	0.0167	mg/L	0.0167	mg/L	20:52:55
1	Ba 233.527†	-151.3	15.7	0.0005	mg/L	0.0005	mg/L	20:52:55
1	Be 313.107†	527.9	208.4	0.0002	mg/L	0.0002	mg/L	20:52:34
1	Ca 315.886†	2484.6	203.1	-0.0124	mg/L	-0.0124	mg/L	20:52:34
1	Cd 228.802†	137.8	-8.1	0.0001	mg/L	0.0001	mg/L	20:52:55
1	Co 228.616†	-196.2	-2.8	-0.0012	mg/L	-0.0012	mg/L	20:52:55
1	Cr 267.716†	1815.3	-67.3	-0.0011	mg/L	-0.0011	mg/L	20:52:34
1	Cu 324.752†	3720.2	927.4	0.0030	mg/L	0.0030	mg/L	20:52:34
1	Fe 234.349†	1480.6	30.2	-0.0015	mg/L	-0.0015	mg/L	20:52:55
1	Fe 238.204†	918.6	5.3	-0.0038	mg/L	-0.0038	mg/L	20:52:55
1	Mg 279.077†	716.8	84.2	-0.0114	mg/L	-0.0114	mg/L	20:52:34
1	Mn 257.610†	1233.3	-164.6	-0.0030	mg/L	-0.0030	mg/L	20:52:34
1	Mo 202.031†	37.8	20.9	0.0007	mg/L	0.0007	mg/L	20:52:55
1	Ni 231.604†	30.7	-1.8	-0.0030	mg/L	-0.0030	mg/L	20:52:55
1	P 214.914†	46.7	-12.6	0.0122	mg/L	0.0122	mg/L	20:52:55
1	Pb 220.353†	-158.1	-1.7	-0.0015	mg/L	-0.0015	mg/L	20:52:55
1	Sb 206.836†	12.8	8.2	0.0028	mg/L	0.0028	mg/L	20:52:55
1	Se 196.026†	-8.7	1.3	-0.0017	mg/L	-0.0017	mg/L	20:52:55
1	Sn 189.927†	84.1	-129.5	-0.0352	mg/L	-0.0352	mg/L	20:52:55
1	Sr 407.771†	5993.7	-202.6	-0.0003	mg/L	-0.0003	mg/L	20:52:29
1	Ti 337.279†	-2277.3	-93.9	-0.0010	mg/L	-0.0010	mg/L	20:52:34
1	Tl 190.801†	0.7	16.7	0.0312	mg/L	0.0312	mg/L	20:52:55
1	V 292.402†	-1498.2	50.6	0.0006	mg/L	0.0006	mg/L	20:52:34
1	Zn 213.857†	707.8	-46.0	-0.0008	mg/L	-0.0008	mg/L	20:52:55
2	K 766.490†	702.5	62.4	0.0398	mg/L	0.0398	mg/L	20:52:21
2	Li 670.784†	204.2	57.7	-0.0028	mg/L	-0.0028	mg/L	20:52:21
2	Na 589.592	9053.9	-69.6	-0.1993	mg/L	-0.1993	mg/L	20:52:21
2	Y 371.029	3717712.4	3717712.4	0.967	mg/L			20:53:01
2	Ag 328.068†	-2201.1	70.6	0.0001	mg/L	0.0001	mg/L	20:53:06
2	Al 237.313†	-186.0	13.9	0.0068	mg/L	0.0068	mg/L	20:53:26
2	As 188.979†	4.2	-2.5	-0.0030	mg/L	-0.0030	mg/L	20:53:26
2	B 182.528†	0.3	7.2	0.0144	mg/L	0.0144	mg/L	20:53:26
2	Ba 233.527†	-172.1	-8.0	0.0003	mg/L	0.0003	mg/L	20:53:26
2	Be 313.107†	460.4	145.6	0.0002	mg/L	0.0002	mg/L	20:53:06
2	Ca 315.886†	2417.0	166.8	-0.0126	mg/L	-0.0126	mg/L	20:53:06
2	Cd 228.802†	144.1	0.3	0.0003	mg/L	0.0003	mg/L	20:53:26
2	Co 228.616†	-185.1	6.1	-0.0010	mg/L	-0.0010	mg/L	20:53:26
2	Cr 267.716†	1831.5	-26.0	-0.0008	mg/L	-0.0008	mg/L	20:53:06
2	Cu 324.752†	3619.5	873.6	0.0028	mg/L	0.0028	mg/L	20:53:06
2	Fe 234.349†	1455.3	24.0	-0.0016	mg/L	-0.0016	mg/L	20:53:26
2	Fe 238.204†	929.1	28.6	-0.0036	mg/L	-0.0036	mg/L	20:53:26
2	Mg 279.077†	711.8	88.8	-0.0113	mg/L	-0.0113	mg/L	20:53:06
2	Mn 257.610†	1130.5	-254.3	-0.0031	mg/L	-0.0031	mg/L	20:53:06
2	Mo 202.031†	35.7	19.2	0.0006	mg/L	0.0006	mg/L	20:53:26
2	Ni 231.604†	24.1	-8.2	-0.0032	mg/L	-0.0032	mg/L	20:53:26
2	P 214.914†	50.3	-8.2	0.0150	mg/L	0.0150	mg/L	20:53:26
2	Pb 220.353†	-137.8	17.1	0.0005	mg/L	0.0005	mg/L	20:53:26
2	Sb 206.836†	13.4	9.0	0.0031	mg/L	0.0031	mg/L	20:53:26
2	Se 196.026†	-7.7	2.2	-0.0007	mg/L	-0.0007	mg/L	20:53:26

2	Sn 189.927†	91.2	-120.9	-0.0332 mg/L	-0.0332 mg/L	20:53:26
2	Sr 407.771†	5827.3	-293.7	-0.0003 mg/L	-0.0003 mg/L	20:53:01
2	Ti 337.279†	-2058.2	101.9	-0.0008 mg/L	-0.0008 mg/L	20:53:06
2	Tl 190.801†	-3.6	12.3	0.0278 mg/L	0.0278 mg/L	20:53:26
2	V 292.402†	-1447.7	82.5	0.0007 mg/L	0.0007 mg/L	20:53:06
2	Zn 213.857†	691.6	-53.1	-0.0009 mg/L	-0.0009 mg/L	20:53:26

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3742329.5	0.974	mg/L	0.0091				0.93%
Ag 328.068†	139.2	0.0004	mg/L	0.00032	0.0004	mg/L	0.00032	88.82%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	15.8	0.0071	mg/L	0.00030	0.0071	mg/L	0.00030	4.27%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	-0.6	-0.0006	mg/L	0.00340	-0.0006	mg/L	0.00340	557.29%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	7.8	0.0156	mg/L	0.00163	0.0156	mg/L	0.00163	10.47%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	3.9	0.0004	mg/L	0.00014	0.0004	mg/L	0.00014	35.92%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	177.0	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	5.15%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	184.9	-0.0125	mg/L	0.00015	-0.0125	mg/L	0.00015	1.22%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	-3.9	0.0002	mg/L	0.00015	0.0002	mg/L	0.00015	76.05%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	1.6	-0.0011	mg/L	0.00015	-0.0011	mg/L	0.00015	12.88%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-46.6	-0.0009	mg/L	0.00017	-0.0009	mg/L	0.00017	17.90%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	900.5	0.0029	mg/L	0.00015	0.0029	mg/L	0.00015	5.14%
QC value greater than the upper limit for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	27.1	-0.0016	mg/L	0.00008	-0.0016	mg/L	0.00008	4.90%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Fe 238.204†	16.9	-0.0037	mg/L	0.00013	-0.0037	mg/L	0.00013	3.60%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	48.9	0.0333	mg/L	0.00924	0.0333	mg/L	0.00924	27.77%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	56.1	-0.0029	mg/L	0.00006	-0.0029	mg/L	0.00006	1.94%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	86.5	-0.0113	mg/L	0.00012	-0.0113	mg/L	0.00012	1.07%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-209.4	-0.0030	mg/L	0.00007	-0.0030	mg/L	0.00007	2.25%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	20.0	0.0006	mg/L	0.00007	0.0006	mg/L	0.00007	11.79%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	7.9	-0.1900	mg/L	0.01319	-0.1900	mg/L	0.01319	6.94%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-5.0	-0.0031	mg/L	0.00013	-0.0031	mg/L	0.00013	4.12%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated								
P 214.914†	-10.4	0.0136	mg/L	0.00203	0.0136	mg/L	0.00203	14.87%
QC value within limits for P 214.914 Recovery = Not calculated								
Pb 220.353†	7.7	-0.0005	mg/L	0.00138	-0.0005	mg/L	0.00138	274.40%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	8.6	0.0030	mg/L	0.00025	0.0030	mg/L	0.00025	8.27%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	1.7	-0.0012	mg/L	0.00071	-0.0012	mg/L	0.00071	58.75%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-125.2	-0.0342	mg/L	0.00142	-0.0342	mg/L	0.00142	4.15%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated								
Sr 407.771†	-248.1	-0.0003	mg/L	0.00000	-0.0003	mg/L	0.00000	0.75%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Ti 337.279†	4.0	-0.0009	mg/L	0.00016	-0.0009	mg/L	0.00016	16.99%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801†	14.5	0.0295	mg/L	0.00240	0.0295	mg/L	0.00240	8.12%
QC value within limits for Tl 190.801 Recovery = Not calculated								
V 292.402†	66.5	0.0007	mg/L	0.00009	0.0007	mg/L	0.00009	12.96%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	-49.5	-0.0009	mg/L	0.00006	-0.0009	mg/L	0.00006	6.52%
QC value within limits for Zn 213.857 Recovery = Not calculated								

2	Tl 190.801†	1.0	17.0	0.0315 mg/L	0.0315 mg/L	20:57:50
2	V 292.402†	20566.1	22335.5	0.0860 mg/L	0.0860 mg/L	20:57:29
2	Zn 213.857†	17121.1	16511.0	0.1862 mg/L	0.1862 mg/L	20:57:29

Mean Data: BF60721-SD1X100

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3819360.5	0.994	mg/L	0.0039				0.39%
Ag 328.068†	15164.5	0.0507	mg/L	0.00006	0.0507	mg/L	0.00006	0.12%
Al 237.313†	3720.5	0.4309	mg/L	0.00522	0.4309	mg/L	0.00522	1.21%
As 188.979†	0.2	0.0002	mg/L	0.00095	0.0002	mg/L	0.00095	521.20%
B 182.528†	5.1	0.0103	mg/L	0.00116	0.0103	mg/L	0.00116	11.20%
Ba 233.527†	1189.2	0.0101	mg/L	0.00003	0.0101	mg/L	0.00003	0.28%
Be 313.107†	437.7	0.0002	mg/L	0.00001	0.0002	mg/L	0.00001	2.21%
Ca 315.886†	35007.1	0.1963	mg/L	0.00047	0.1963	mg/L	0.00047	0.24%
Cd 228.802†	140.1	0.0032	mg/L	0.00002	0.0032	mg/L	0.00002	0.61%
Co 228.616†	41.2	-0.0003	mg/L	0.00013	-0.0003	mg/L	0.00013	49.15%
Cr 267.716†	18601.9	0.1068	mg/L	0.00071	0.1068	mg/L	0.00071	0.66%
Cu 324.752†	432049.3	1.691	mg/L	0.0018	1.691	mg/L	0.0018	0.11%
Fe 234.349†	92244.8	1.639	mg/L	0.0112	1.639	mg/L	0.0112	0.68%
Fe 238.204†	203662.1	1.646	mg/L	0.0015	1.646	mg/L	0.0015	0.09%
K 766.490†	168.9	0.0911	mg/L	0.01045	0.0911	mg/L	0.01045	11.48%
Li 670.784†	20.2	-0.0038	mg/L	0.00059	-0.0038	mg/L	0.00059	15.66%
Mg 279.077†	4326.5	0.1505	mg/L	0.00199	0.1505	mg/L	0.00199	1.32%
Mn 257.610†	22887.3	0.0217	mg/L	0.00005	0.0217	mg/L	0.00005	0.24%
Mo 202.031†	65.7	0.0035	mg/L	0.00025	0.0035	mg/L	0.00025	7.32%
Na 589.592	694.8	-0.1073	mg/L	0.00456	-0.1073	mg/L	0.00456	4.25%
Ni 231.604†	279.7	0.0049	mg/L	0.00021	0.0049	mg/L	0.00021	4.20%
P 214.914†	596.7	0.4079	mg/L	0.00299	0.4079	mg/L	0.00299	0.73%
Pb 220.353†	4027.6	0.4160	mg/L	0.00452	0.4160	mg/L	0.00452	1.09%
Sb 206.836†	9.8	0.0017	mg/L	0.00409	0.0017	mg/L	0.00409	242.90%
Se 196.026†	4.6	0.0019	mg/L	0.00875	0.0019	mg/L	0.00875	452.47%
Sn 189.927†	521.9	0.1177	mg/L	0.00050	0.1177	mg/L	0.00050	0.43%
Sr 407.771†	44094.8	0.0015	mg/L	0.00000	0.0015	mg/L	0.00000	0.13%
Ti 337.279†	17896.0	0.0192	mg/L	0.00016	0.0192	mg/L	0.00016	0.82%
Tl 190.801†	14.4	0.0295	mg/L	0.00285	0.0295	mg/L	0.00285	9.69%
V 292.402†	22334.0	0.0860	mg/L	0.00001	0.0860	mg/L	0.00001	0.01%
Zn 213.857†	16420.9	0.1852	mg/L	0.00144	0.1852	mg/L	0.00144	0.78%

Dilution Check: BF60721-SD1X100

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	0.0722	0.0911	0.010	mg/L	26.1
Li 670.784	-0.0002	-0.0038	0.001	mg/L	-2111.9
Na 589.592	0.1306	-0.1073	0.005	mg/L	182.2
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.0501	0.0507	0.000	mg/L	1.2
Al 237.313	0.4175	0.4309	0.005	mg/L	3.2
As 188.979	0.0013	0.0002	0.001	mg/L	86.4
B 182.528	0.0018	0.0103	0.001	mg/L	471.6
Ba 233.527	0.0097	0.0101	0.000	mg/L	3.5
Be 313.107	0.0001	0.0002	0.000	mg/L	111.3
Ca 315.886	0.2011	0.1963	0.000	mg/L	2.4
Cd 228.802	0.0030	0.0032	0.000	mg/L	6.9
Co 228.616	0.0003	-0.0003	0.000	mg/L	194.0
Cr 267.716	0.1072	0.1068	0.001	mg/L	0.4
Cu 324.752	1.688	1.691	0.002	mg/L	0.1
Fe 234.349	1.624	1.639	0.011	mg/L	0.9
Fe 238.204	1.629	1.646	0.002	mg/L	1.0
Mg 279.077	0.1586	0.1505	0.002	mg/L	5.1
Mn 257.610	0.0239	0.0217	0.000	mg/L	8.9
Mo 202.031	0.0032	0.0035	0.000	mg/L	9.3
Ni 231.604	0.0073	0.0049	0.000	mg/L	33.3
P 214.914	0.3870	0.4079	0.003	mg/L	5.4
Pb 220.353	0.4127	0.4160	0.005	mg/L	0.8
Sb 206.836	0.0027	0.0017	0.004	mg/L	38.2
Se 196.026	0.0003	0.0019	0.009	mg/L	454.6
Sn 189.927	0.1425	0.1177	0.001	mg/L	17.4
Sr 407.771	0.0017	0.0015	0.000	mg/L	14.5
Ti 337.279	0.0196	0.0192	0.000	mg/L	2.4

Tl 190.801	0.0066	0.0295	0.003	mg/L	345.2
V 292.402	0.0856	0.0860	0.000	mg/L	0.4
Zn 213.857	0.1861	0.1852	0.001	mg/L	0.5

Sequence No.: 54
Sample ID: BF60721-PDS1X20
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 6/7/2006 8:59:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60721-PDS1X20

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	52623.1	53023.8	25.54	mg/L	25.54	mg/L	21:01:05
1	Li 670.784†	19501.8	19742.9	0.5064	mg/L	0.5064	mg/L	21:01:05
1	Na 589.592	227108.6	217985.0	26.05	mg/L	26.05	mg/L	21:01:05
1	Y 371.029	3767803.7	3767803.7	0.980	mg/L			21:01:21
1	Ag 328.068†	141802.1	147017.3	0.4926	mg/L	0.4926	mg/L	21:01:26
1	Al 237.313†	39048.8	40045.1	4.618	mg/L	4.618	mg/L	21:01:26
1	As 188.979†	401.5	402.7	0.4962	mg/L	0.4962	mg/L	21:01:47
1	B 182.528†	242.6	254.4	0.4974	mg/L	0.4974	mg/L	21:01:47
1	Ba 233.527†	65095.1	66582.1	0.5477	mg/L	0.5477	mg/L	21:01:26
1	Be 313.107†	241490.0	246045.1	0.0505	mg/L	0.0505	mg/L	21:01:21
1	Ca 315.886†	1009798.0	1027894.6	6.142	mg/L	6.142	mg/L	21:01:21
1	Cd 228.802†	12574.1	12679.7	0.2690	mg/L	0.2690	mg/L	21:01:47
1	Co 228.616†	21146.7	21771.9	0.5063	mg/L	0.5063	mg/L	21:01:26
1	Cr 267.716†	179426.6	181136.9	1.045	mg/L	1.045	mg/L	21:01:26
1	Cu 324.752†	2225346.8	2267498.3	8.876	mg/L	8.876	mg/L	21:01:21
1	Fe 234.349†	595864.2	606438.3	10.78	mg/L	10.78	mg/L	21:01:21
1	Fe 238.204†	1305656.7	1331138.9	10.78	mg/L	10.78	mg/L	21:01:21
1	Mg 279.077†	149954.2	152340.6	5.815	mg/L	5.815	mg/L	21:01:26
1	Mn 257.610†	580191.2	590505.7	0.6300	mg/L	0.6300	mg/L	21:01:21
1	Mo 202.031†	8214.0	8362.4	0.5180	mg/L	0.5180	mg/L	21:01:47
1	Ni 231.604†	19351.9	19710.3	0.5507	mg/L	0.5507	mg/L	21:01:26
1	P 214.914†	10290.3	10438.2	6.798	mg/L	6.798	mg/L	21:01:26
1	Pb 220.353†	24154.0	24802.3	2.571	mg/L	2.571	mg/L	21:01:26
1	Sb 206.836†	1159.0	1177.5	0.5030	mg/L	0.5030	mg/L	21:01:47
1	Se 196.026†	911.9	940.5	1.011	mg/L	1.011	mg/L	21:01:47
1	Sn 189.927†	5473.5	5369.0	1.255	mg/L	1.255	mg/L	21:01:47
1	Sr 407.771†	1447164.3	1470122.5	0.0594	mg/L	0.0594	mg/L	21:01:21
1	Ti 337.279†	497408.0	509701.0	0.5707	mg/L	0.5707	mg/L	21:01:21
1	Tl 190.801†	677.4	707.1	0.5683	mg/L	0.5683	mg/L	21:01:47
1	V 292.402†	236930.8	243303.5	0.9412	mg/L	0.9412	mg/L	21:01:26
1	Zn 213.857†	129720.8	131576.9	1.484	mg/L	1.484	mg/L	21:01:26
2	K 766.490†	52408.2	52466.3	25.27	mg/L	25.27	mg/L	21:01:10
2	Li 670.784†	19510.3	19625.6	0.5034	mg/L	0.5034	mg/L	21:01:10
2	Na 589.592	227571.5	218447.9	26.10	mg/L	26.10	mg/L	21:01:10
2	Y 371.029	3791792.4	3791792.4	0.986	mg/L			21:01:54
2	Ag 328.068†	141477.8	145773.3	0.4885	mg/L	0.4885	mg/L	21:02:00
2	Al 237.313†	39370.0	40118.7	4.626	mg/L	4.626	mg/L	21:02:00
2	As 188.979†	412.9	411.7	0.5073	mg/L	0.5073	mg/L	21:02:20
2	B 182.528†	249.8	260.1	0.5085	mg/L	0.5085	mg/L	21:02:20
2	Ba 233.527†	65600.5	66674.3	0.5484	mg/L	0.5484	mg/L	21:02:00
2	Be 313.107†	243286.3	246307.4	0.0505	mg/L	0.0505	mg/L	21:01:54
2	Ca 315.886†	1019144.5	1030852.2	6.159	mg/L	6.159	mg/L	21:01:54
2	Cd 228.802†	12668.9	12694.7	0.2692	mg/L	0.2692	mg/L	21:02:20
2	Co 228.616†	21335.9	21827.2	0.5075	mg/L	0.5075	mg/L	21:02:00
2	Cr 267.716†	180498.9	181065.8	1.045	mg/L	1.045	mg/L	21:02:00
2	Cu 324.752†	2249901.0	2278027.2	8.917	mg/L	8.917	mg/L	21:01:54
2	Fe 234.349†	600259.3	607047.9	10.79	mg/L	10.79	mg/L	21:01:54
2	Fe 238.204†	1317799.8	1335022.0	10.81	mg/L	10.81	mg/L	21:01:54
2	Mg 279.077†	150876.0	152307.2	5.814	mg/L	5.814	mg/L	21:02:00
2	Mn 257.610†	584886.9	591521.3	0.6310	mg/L	0.6310	mg/L	21:01:54
2	Mo 202.031†	8253.4	8349.3	0.5171	mg/L	0.5171	mg/L	21:02:20
2	Ni 231.604†	19561.4	19797.7	0.5532	mg/L	0.5532	mg/L	21:02:00
2	P 214.914†	10275.8	10357.1	6.746	mg/L	6.746	mg/L	21:02:00
2	Pb 220.353†	24281.9	24776.0	2.568	mg/L	2.568	mg/L	21:02:00
2	Sb 206.836†	1162.0	1173.1	0.5010	mg/L	0.5010	mg/L	21:02:20
2	Se 196.026†	923.1	946.0	1.017	mg/L	1.017	mg/L	21:02:20
2	Sn 189.927†	5528.4	5389.3	1.260	mg/L	1.260	mg/L	21:02:20

2	Sr 407.771†	1454751.7	1468473.7	0.0593 mg/L	0.0593 mg/L	21:01:54
2	Ti 337.279†	500805.7	509934.9	0.5709 mg/L	0.5709 mg/L	21:01:54
2	Tl 190.801†	681.4	706.8	0.5681 mg/L	0.5681 mg/L	21:02:20
2	V 292.402†	238474.3	243339.0	0.9413 mg/L	0.9413 mg/L	21:02:00
2	Zn 213.857†	130727.9	131760.6	1.486 mg/L	1.486 mg/L	21:02:00

Mean Data: BF60721-PDS1X20

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3779798.0	0.983	mg/L	0.0044				0.45%
Ag 328.068†	146395.3	0.4906	mg/L	0.00294	0.4906	mg/L	0.00294	0.60%
Al 237.313†	40081.9	4.622	mg/L	0.0060	4.622	mg/L	0.0060	0.13%
As 188.979†	407.2	0.5018	mg/L	0.00781	0.5018	mg/L	0.00781	1.56%
B 182.528†	257.2	0.5030	mg/L	0.00786	0.5030	mg/L	0.00786	1.56%
Ba 233.527†	66628.2	0.5481	mg/L	0.00054	0.5481	mg/L	0.00054	0.10%
Be 313.107†	246176.3	0.0505	mg/L	0.00004	0.0505	mg/L	0.00004	0.08%
Ca 315.886†	1029373.4	6.150	mg/L	0.0125	6.150	mg/L	0.0125	0.20%
Cd 228.802†	12687.2	0.2691	mg/L	0.00018	0.2691	mg/L	0.00018	0.07%
Co 228.616†	21799.6	0.5069	mg/L	0.00091	0.5069	mg/L	0.00091	0.18%
Cr 267.716†	181101.3	1.045	mg/L	0.0003	1.045	mg/L	0.0003	0.03%
Cu 324.752†	2272762.8	8.897	mg/L	0.0291	8.897	mg/L	0.0291	0.33%
Fe 234.349†	606743.1	10.78	mg/L	0.008	10.78	mg/L	0.008	0.07%
Fe 238.204†	1333080.5	10.80	mg/L	0.022	10.80	mg/L	0.022	0.21%
K 766.490†	52745.1	25.40	mg/L	0.190	25.40	mg/L	0.190	0.75%
Li 670.784†	19684.2	0.5049	mg/L	0.00214	0.5049	mg/L	0.00214	0.42%
Mg 279.077†	152323.9	5.815	mg/L	0.0009	5.815	mg/L	0.0009	0.02%
Mn 257.610†	591013.5	0.6305	mg/L	0.00077	0.6305	mg/L	0.00077	0.12%
Mo 202.031†	8355.9	0.5175	mg/L	0.00058	0.5175	mg/L	0.00058	0.11%
Na 589.592	218216.5	26.07	mg/L	0.039	26.07	mg/L	0.039	0.15%
Ni 231.604†	19754.0	0.5519	mg/L	0.00173	0.5519	mg/L	0.00173	0.31%
P 214.914†	10397.6	6.772	mg/L	0.0372	6.772	mg/L	0.0372	0.55%
Pb 220.353†	24789.2	2.569	mg/L	0.0019	2.569	mg/L	0.0019	0.08%
Sb 206.836†	1175.3	0.5020	mg/L	0.00140	0.5020	mg/L	0.00140	0.28%
Se 196.026†	943.3	1.014	mg/L	0.0042	1.014	mg/L	0.0042	0.41%
Sn 189.927†	5379.2	1.258	mg/L	0.0034	1.258	mg/L	0.0034	0.27%
Sr 407.771†	1469298.1	0.0594	mg/L	0.00005	0.0594	mg/L	0.00005	0.08%
Ti 337.279†	509818.0	0.5708	mg/L	0.00019	0.5708	mg/L	0.00019	0.03%
Tl 190.801†	706.9	0.5682	mg/L	0.00015	0.5682	mg/L	0.00015	0.03%
V 292.402†	243321.2	0.9413	mg/L	0.00009	0.9413	mg/L	0.00009	0.01%
Zn 213.857†	131668.7	1.485	mg/L	0.0015	1.485	mg/L	0.0015	0.10%

Matrix Recovery Check: BF60721-PDS1X20

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	25.36	25.40	0.190	mg/L	100.2
Li 670.784	0.4991	0.5049	0.002	mg/L	101.2
Na 589.592	25.65	26.07	0.039	mg/L	101.7
Ag 328.068	0.5007	0.4906	0.003	mg/L	96.0
Al 237.313	4.587	4.622	0.006	mg/L	101.4
As 188.979	0.5067	0.5018	0.008	mg/L	99.0
B 182.528	0.5090	0.5030	0.008	mg/L	98.8
Ba 233.527	0.5487	0.5481	0.001	mg/L	99.9
Be 313.107	0.0506	0.0505	0.000	mg/L	99.9
Ca 315.886	6.006	6.150	0.013	mg/L	102.9
Cd 228.802	0.2652	0.2691	0.000	mg/L	101.6
Co 228.616	0.5014	0.5069	0.001	mg/L	101.1
Cr 267.716	1.036	1.045	0.000	mg/L	101.8
Cu 324.752	8.941	8.897	0.029	mg/L	91.1
Fe 234.349	10.62	10.78	0.008	mg/L	106.5
Fe 238.204	10.65	10.80	0.022	mg/L	106.0
Mg 279.077	5.793	5.815	0.001	mg/L	100.4
Mn 257.610	0.6193	0.6305	0.001	mg/L	102.2
Mo 202.031	0.5158	0.5175	0.001	mg/L	100.3
Ni 231.604	0.5366	0.5519	0.002	mg/L	103.1
P 214.914	6.935	6.772	0.037	mg/L	96.7
Pb 220.353	2.564	2.569	0.002	mg/L	101.1
Sb 206.836	0.5136	0.5020	0.001	mg/L	97.7
Se 196.026	1.002	1.014	0.004	mg/L	101.3
Sn 189.927	1.213	1.258	0.003	mg/L	109.0
Sr 407.771	0.0585	0.0594	0.000	mg/L	101.7

Ti 337.279	0.5981	0.5708	0.000	mg/L	94.5
Tl 190.801	0.5331	0.5682	0.000	mg/L	107.0
V 292.402	0.9280	0.9413	0.000	mg/L	102.7
Zn 213.857	1.430	1.485	0.001	mg/L	110.9

Sequence No.: 55
Sample ID: 0606078-08X5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 51
Date Collected: 6/7/2006 9:03:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606078-08X5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	3815.1	3133.8	1.518	mg/L	1.518	mg/L	21:05:34
1	Li 670.784†	794.4	637.3	0.0122	mg/L	0.0122	mg/L	21:05:34
1	Na 589.592	20146.0	11022.5	1.136	mg/L	1.136	mg/L	21:05:34
1	Y 371.029	3861695.2	3861695.2	1.00	mg/L			21:05:50
1	Ag 328.068†	117947.7	119754.6	0.4020	mg/L	0.4020	mg/L	21:05:56
1	Al 237.313†	105373.8	105098.1	12.06	mg/L	12.06	mg/L	21:05:56
1	As 188.979†	20.0	13.0	0.0156	mg/L	0.0156	mg/L	21:06:16
1	B 182.528†	3.0	9.8	0.0196	mg/L	0.0196	mg/L	21:06:16
1	Ba 233.527†	13342.8	13451.8	0.1110	mg/L	0.1110	mg/L	21:05:56
1	Be 313.107†	3890.1	3542.0	0.0005	mg/L	0.0005	mg/L	21:05:56
1	Ca 315.886†	831397.2	825261.4	4.924	mg/L	4.924	mg/L	21:05:50
1	Cd 228.802†	254.9	105.0	0.0027	mg/L	0.0027	mg/L	21:06:16
1	Co 228.616†	266.0	462.2	0.0083	mg/L	0.0083	mg/L	21:06:16
1	Cr 267.716†	72550.9	70299.2	0.4074	mg/L	0.4074	mg/L	21:05:56
1	Cu 324.752†	1869587.6	1858165.9	7.279	mg/L	7.279	mg/L	21:05:50
1	Fe 234.349†	2109925.7	2098792.7	37.33	mg/L	37.33	mg/L	21:05:50
1	Fe 238.204†	4560630.4	4538834.6	36.76	mg/L	36.76	mg/L	21:05:50
1	Mg 279.077†	91396.5	90331.1	3.430	mg/L	3.430	mg/L	21:05:56
1	Mn 257.610†	340620.7	337639.4	0.3589	mg/L	0.3589	mg/L	21:05:56
1	Mo 202.031†	159.0	140.5	0.0081	mg/L	0.0081	mg/L	21:06:16
1	Ni 231.604†	4240.5	4188.0	0.1146	mg/L	0.1146	mg/L	21:05:56
1	P 214.914†	4536.8	4455.7	2.914	mg/L	2.914	mg/L	21:05:56
1	Pb 220.353†	8617.2	8737.4	0.9031	mg/L	0.9031	mg/L	21:05:56
1	Sb 206.836†	26.9	21.9	0.0002	mg/L	0.0002	mg/L	21:06:16
1	Se 196.026†	-6.5	3.7	0.0010	mg/L	0.0010	mg/L	21:06:16
1	Sn 189.927†	2227.6	2002.1	0.4669	mg/L	0.4669	mg/L	21:06:16
1	Sr 407.771†	478500.4	469992.4	0.0188	mg/L	0.0188	mg/L	21:05:50
1	Ti 337.279†	533639.9	533428.6	0.5973	mg/L	0.5973	mg/L	21:05:50
1	Tl 190.801†	3.2	19.2	0.0380	mg/L	0.0380	mg/L	21:06:16
1	V 292.402†	11376.6	12904.0	0.0442	mg/L	0.0442	mg/L	21:05:56
1	Zn 213.857†	127304.9	125954.3	1.419	mg/L	1.419	mg/L	21:05:56
2	K 766.490†	3934.3	3242.7	1.571	mg/L	1.571	mg/L	21:05:39
2	Li 670.784†	765.9	607.0	0.0114	mg/L	0.0114	mg/L	21:05:39
2	Na 589.592	20121.2	10997.7	1.133	mg/L	1.133	mg/L	21:05:39
2	Y 371.029	3871282.2	3871282.2	1.01	mg/L			21:06:25
2	Ag 328.068†	119197.1	120704.4	0.4052	mg/L	0.4052	mg/L	21:06:30
2	Al 237.313†	106480.7	105937.4	12.16	mg/L	12.16	mg/L	21:06:30
2	As 188.979†	18.1	11.0	0.0131	mg/L	0.0131	mg/L	21:06:50
2	B 182.528†	1.0	7.9	0.0158	mg/L	0.0158	mg/L	21:06:50
2	Ba 233.527†	13521.0	13595.9	0.1122	mg/L	0.1122	mg/L	21:06:30
2	Be 313.107†	3947.1	3588.9	0.0005	mg/L	0.0005	mg/L	21:06:30
2	Ca 315.886†	834177.4	825972.5	4.928	mg/L	4.928	mg/L	21:06:25
2	Cd 228.802†	231.0	80.7	0.0022	mg/L	0.0022	mg/L	21:06:50
2	Co 228.616†	281.9	477.3	0.0087	mg/L	0.0087	mg/L	21:06:50
2	Cr 267.716†	73233.0	70797.8	0.4103	mg/L	0.4103	mg/L	21:06:30
2	Cu 324.752†	1885254.9	1869114.1	7.322	mg/L	7.322	mg/L	21:06:25
2	Fe 234.349†	2120588.6	2104179.3	37.42	mg/L	37.42	mg/L	21:06:25
2	Fe 238.204†	4580486.5	4547308.5	36.83	mg/L	36.83	mg/L	21:06:25
2	Mg 279.077†	92110.5	90814.8	3.449	mg/L	3.449	mg/L	21:06:30
2	Mn 257.610†	344332.9	340485.7	0.3620	mg/L	0.3620	mg/L	21:06:30
2	Mo 202.031†	154.9	136.0	0.0078	mg/L	0.0078	mg/L	21:06:50
2	Ni 231.604†	4308.0	4244.5	0.1161	mg/L	0.1161	mg/L	21:06:30
2	P 214.914†	4560.5	4468.1	2.922	mg/L	2.922	mg/L	21:06:30
2	Pb 220.353†	8713.9	8812.2	0.9108	mg/L	0.9108	mg/L	21:06:30
2	Sb 206.836†	25.0	19.9	-0.0007	mg/L	-0.0007	mg/L	21:06:50
2	Se 196.026†	-7.9	2.3	-0.0006	mg/L	-0.0006	mg/L	21:06:50

2	Sn 189.927†	2204.6	1973.8	0.4602 mg/L	0.4602 mg/L	21:06:50
2	Sr 407.771†	479244.4	469551.6	0.0187 mg/L	0.0187 mg/L	21:06:25
2	Ti 337.279†	534867.7	533332.3	0.5972 mg/L	0.5972 mg/L	21:06:25
2	Tl 190.801†	-5.8	10.3	0.0312 mg/L	0.0312 mg/L	21:06:50
2	V 292.402†	11563.9	13061.9	0.0448 mg/L	0.0448 mg/L	21:06:30
2	Zn 213.857†	128557.3	126884.1	1.429 mg/L	1.429 mg/L	21:06:30

Mean Data: 0606078-08X5

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3866488.7	1.01	mg/L	0.002				0.18%
Ag 328.068†	120229.5	0.4036	mg/L	0.00225	0.4036	mg/L	0.00225	0.56%
Al 237.313†	105517.7	12.11	mg/L	0.069	12.11	mg/L	0.069	0.57%
As 188.979†	12.0	0.0144	mg/L	0.00172	0.0144	mg/L	0.00172	11.97%
B 182.528†	8.9	0.0177	mg/L	0.00271	0.0177	mg/L	0.00271	15.33%
Ba 233.527†	13523.8	0.1116	mg/L	0.00084	0.1116	mg/L	0.00084	0.75%
Be 313.107†	3565.5	0.0005	mg/L	0.00001	0.0005	mg/L	0.00001	1.45%
Ca 315.886†	825617.0	4.926	mg/L	0.0030	4.926	mg/L	0.0030	0.06%
Cd 228.802†	92.8	0.0025	mg/L	0.00035	0.0025	mg/L	0.00035	14.14%
Co 228.616†	469.8	0.0085	mg/L	0.00025	0.0085	mg/L	0.00025	2.93%
Cr 267.716†	70548.5	0.4088	mg/L	0.00204	0.4088	mg/L	0.00204	0.50%
Cu 324.752†	1863640.0	7.301	mg/L	0.0303	7.301	mg/L	0.0303	0.42%
Fe 234.349†	2101486.0	37.37	mg/L	0.068	37.37	mg/L	0.068	0.18%
Fe 238.204†	4543071.5	36.80	mg/L	0.049	36.80	mg/L	0.049	0.13%
K 766.490†	3188.2	1.545	mg/L	0.0371	1.545	mg/L	0.0371	2.40%
Li 670.784†	622.1	0.0118	mg/L	0.00055	0.0118	mg/L	0.00055	4.70%
Mg 279.077†	90572.9	3.439	mg/L	0.0131	3.439	mg/L	0.0131	0.38%
Mn 257.610†	339062.5	0.3604	mg/L	0.00216	0.3604	mg/L	0.00216	0.60%
Mo 202.031†	138.3	0.0080	mg/L	0.00020	0.0080	mg/L	0.00020	2.48%
Na 589.592	11010.1	1.134	mg/L	0.0021	1.134	mg/L	0.0021	0.19%
Ni 231.604†	4216.2	0.1154	mg/L	0.00112	0.1154	mg/L	0.00112	0.97%
P 214.914†	4461.9	2.918	mg/L	0.0057	2.918	mg/L	0.0057	0.19%
Pb 220.353†	8774.8	0.9070	mg/L	0.00548	0.9070	mg/L	0.00548	0.60%
Sb 206.836†	20.9	-0.0003	mg/L	0.00066	-0.0003	mg/L	0.00066	256.92%
Se 196.026†	3.0	0.0002	mg/L	0.00110	0.0002	mg/L	0.00110	625.26%
Sn 189.927†	1988.0	0.4635	mg/L	0.00469	0.4635	mg/L	0.00469	1.01%
Sr 407.771†	469772.0	0.0187	mg/L	0.00001	0.0187	mg/L	0.00001	0.07%
Ti 337.279†	533380.5	0.5972	mg/L	0.00008	0.5972	mg/L	0.00008	0.01%
Tl 190.801†	14.7	0.0346	mg/L	0.00483	0.0346	mg/L	0.00483	13.95%
V 292.402†	12982.9	0.0445	mg/L	0.00042	0.0445	mg/L	0.00042	0.93%
Zn 213.857†	126419.2	1.424	mg/L	0.0074	1.424	mg/L	0.0074	0.52%

Sequence No.: 56
Sample ID: 0606078-09
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 52
Date Collected: 6/7/2006 9:08:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606078-09

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	5866.0	5211.8	2.519	mg/L	2.519	mg/L	21:10:05
1	Li 670.784†	2024.1	1874.1	0.0442	mg/L	0.0442	mg/L	21:10:05
1	Na 589.592	55799.6	46676.1	5.427	mg/L	5.427	mg/L	21:10:05
1	Y 371.029	3837654.4	3837654.4	0.998	mg/L			21:10:28
1	Ag 328.068†	40894.9	43309.3	0.1486	mg/L	0.1486	mg/L	21:10:34
1	Al 237.313†	626102.8	627349.1	72.57	mg/L	72.57	mg/L	21:10:28
1	As 188.979†	51.9	45.1	0.0512	mg/L	0.0512	mg/L	21:10:54
1	B 182.528†	8.6	15.4	0.0306	mg/L	0.0306	mg/L	21:10:54
1	Ba 233.527†	22634.1	22841.7	0.1878	mg/L	0.1878	mg/L	21:10:34
1	Be 313.107†	15759.7	15455.5	-0.0007	mg/L	-0.0007	mg/L	21:10:34
1	Ca 315.886†	283652.7	281791.5	1.676	mg/L	1.676	mg/L	21:10:34
1	Cd 228.802†	236.4	88.1	0.0025	mg/L	0.0025	mg/L	21:10:54
1	Co 228.616†	812.1	1010.9	0.0137	mg/L	0.0137	mg/L	21:10:54
1	Cr 267.716†	17553.7	15663.2	0.0948	mg/L	0.0948	mg/L	21:10:34
1	Cu 324.752†	297250.9	294875.7	1.173	mg/L	1.173	mg/L	21:10:28
1	Fe 234.349†	5115402.8	5122419.2	91.11	mg/L	91.11	mg/L	21:10:21
1	Fe 238.204†	10739114.4	10756020.8	87.13	mg/L	87.13	mg/L	21:10:21
1	Mg 279.077†	194485.6	194161.4	7.383	mg/L	7.383	mg/L	21:10:34

1	Mn 257.610†	455840.0	455174.1	0.4849 mg/L	0.4849 mg/L	21:10:28
1	Mo 202.031†	240.5	223.2	0.0132 mg/L	0.0132 mg/L	21:10:54
1	Ni 231.604†	3529.8	3502.6	0.0953 mg/L	0.0953 mg/L	21:10:54
1	P 214.914†	8479.6	8433.4	5.497 mg/L	5.497 mg/L	21:10:54
1	Pb 220.353†	12538.0	12718.4	1.328 mg/L	1.328 mg/L	21:10:54
1	Sb 206.836†	37.2	32.4	0.0098 mg/L	0.0098 mg/L	21:10:54
1	Se 196.026†	2.6	12.7	0.0107 mg/L	0.0107 mg/L	21:10:54
1	Sn 189.927†	747.3	533.3	0.1281 mg/L	0.1281 mg/L	21:10:54
1	Sr 407.771†	451038.8	445469.0	0.0178 mg/L	0.0178 mg/L	21:10:28
1	Ti 337.279†	3633521.0	3641786.6	4.083 mg/L	4.083 mg/L	21:10:28
1	Tl 190.801†	1.7	17.7	0.0304 mg/L	0.0304 mg/L	21:10:54
1	V 292.402†	172301.6	174167.2	0.6528 mg/L	0.6528 mg/L	21:10:34
1	Zn 213.857†	23867.0	23138.4	0.2551 mg/L	0.2551 mg/L	21:10:34
2	K 766.490†	5847.2	5165.8	2.497 mg/L	2.497 mg/L	21:10:11
2	Li 670.784†	1973.9	1814.5	0.0426 mg/L	0.0426 mg/L	21:10:11
2	Na 589.592	55775.6	46652.0	5.424 mg/L	5.424 mg/L	21:10:11
2	Y 371.029	3855555.1	3855555.1	1.00 mg/L		21:11:08
2	Ag 328.068†	40676.8	42901.6	0.1472 mg/L	0.1472 mg/L	21:11:14
2	Al 237.313†	628920.5	627246.7	72.56 mg/L	72.56 mg/L	21:11:08
2	As 188.979†	47.6	40.6	0.0456 mg/L	0.0456 mg/L	21:11:34
2	B 182.528†	7.5	14.4	0.0285 mg/L	0.0285 mg/L	21:11:34
2	Ba 233.527†	22461.7	22564.6	0.1855 mg/L	0.1855 mg/L	21:11:14
2	Be 313.107†	15675.3	15298.0	-0.0007 mg/L	-0.0007 mg/L	21:11:14
2	Ca 315.886†	281515.3	278341.3	1.656 mg/L	1.656 mg/L	21:11:14
2	Cd 228.802†	246.2	96.7	0.0027 mg/L	0.0027 mg/L	21:11:34
2	Co 228.616†	815.7	1010.7	0.0137 mg/L	0.0137 mg/L	21:11:34
2	Cr 267.716†	17524.2	15552.1	0.0941 mg/L	0.0941 mg/L	21:11:14
2	Cu 324.752†	297280.7	293523.0	1.168 mg/L	1.168 mg/L	21:11:08
2	Fe 234.349†	5099677.6	5082951.5	90.40 mg/L	90.40 mg/L	21:11:01
2	Fe 238.204†	10742131.8	10709086.3	86.75 mg/L	86.75 mg/L	21:11:01
2	Mg 279.077†	192722.9	191499.5	7.281 mg/L	7.281 mg/L	21:11:14
2	Mn 257.610†	457536.5	454745.6	0.4845 mg/L	0.4845 mg/L	21:11:08
2	Mo 202.031†	256.4	237.8	0.0141 mg/L	0.0141 mg/L	21:11:34
2	Ni 231.604†	3516.7	3473.1	0.0945 mg/L	0.0945 mg/L	21:11:34
2	P 214.914†	8427.8	8342.3	5.437 mg/L	5.437 mg/L	21:11:34
2	Pb 220.353†	12528.1	12650.3	1.321 mg/L	1.321 mg/L	21:11:34
2	Sb 206.836†	38.0	33.0	0.0100 mg/L	0.0100 mg/L	21:11:34
2	Se 196.026†	3.9	14.1	0.0121 mg/L	0.0121 mg/L	21:11:34
2	Sn 189.927†	744.5	527.1	0.1267 mg/L	0.1267 mg/L	21:11:34
2	Sr 407.771†	452197.0	444526.2	0.0177 mg/L	0.0177 mg/L	21:11:08
2	Ti 337.279†	3650748.8	3642064.9	4.083 mg/L	4.083 mg/L	21:11:08
2	Tl 190.801†	6.5	22.5	0.0341 mg/L	0.0341 mg/L	21:11:34
2	V 292.402†	171190.3	172257.9	0.6456 mg/L	0.6456 mg/L	21:11:14
2	Zn 213.857†	23601.7	22762.9	0.2510 mg/L	0.2510 mg/L	21:11:14

Mean Data: 0606078-09

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3846604.7	1.00	mg/L	0.003				0.33%
Ag 328.068†	43105.5	0.1479	mg/L	0.00099	0.1479	mg/L	0.00099	0.67%
Al 237.313†	627297.9	72.56	mg/L	0.006	72.56	mg/L	0.006	0.01%
As 188.979†	42.9	0.0484	mg/L	0.00397	0.0484	mg/L	0.00397	8.20%
B 182.528†	14.9	0.0295	mg/L	0.00148	0.0295	mg/L	0.00148	5.00%
Ba 233.527†	22703.2	0.1866	mg/L	0.00161	0.1866	mg/L	0.00161	0.86%
Be 313.107†	15376.8	-0.0007	mg/L	0.00003	-0.0007	mg/L	0.00003	3.71%
Ca 315.886†	280066.4	1.666	mg/L	0.0146	1.666	mg/L	0.0146	0.88%
Cd 228.802†	92.4	0.0026	mg/L	0.00015	0.0026	mg/L	0.00015	5.71%
Co 228.616†	1010.8	0.0137	mg/L	0.00000	0.0137	mg/L	0.00000	0.03%
Cr 267.716†	15607.6	0.0944	mg/L	0.00048	0.0944	mg/L	0.00048	0.51%
Cu 324.752†	294199.4	1.171	mg/L	0.0038	1.171	mg/L	0.0038	0.33%
Fe 234.349†	5102685.3	90.76	mg/L	0.496	90.76	mg/L	0.496	0.55%
Fe 238.204†	10732553.5	86.94	mg/L	0.269	86.94	mg/L	0.269	0.31%
K 766.490†	5188.8	2.508	mg/L	0.0157	2.508	mg/L	0.0157	0.62%
Li 670.784†	1844.3	0.0434	mg/L	0.00109	0.0434	mg/L	0.00109	2.51%
Mg 279.077†	192830.4	7.332	mg/L	0.0718	7.332	mg/L	0.0718	0.98%
Mn 257.610†	454959.8	0.4847	mg/L	0.00033	0.4847	mg/L	0.00033	0.07%
Mo 202.031†	230.5	0.0137	mg/L	0.00064	0.0137	mg/L	0.00064	4.70%
Na 589.592	46664.1	5.426	mg/L	0.0020	5.426	mg/L	0.0020	0.04%
Ni 231.604†	3487.8	0.0949	mg/L	0.00059	0.0949	mg/L	0.00059	0.62%
P 214.914†	8387.8	5.467	mg/L	0.0418	5.467	mg/L	0.0418	0.77%
Pb 220.353†	12684.4	1.325	mg/L	0.0050	1.325	mg/L	0.0050	0.38%

Sb 206.836†	32.7	0.0099 mg/L	0.00018	0.0099 mg/L	0.00018	1.86%
Se 196.026†	13.4	0.0114 mg/L	0.00104	0.0114 mg/L	0.00104	9.11%
Sn 189.927†	530.2	0.1274 mg/L	0.00105	0.1274 mg/L	0.00105	0.82%
Sr 407.771†	444997.6	0.0177 mg/L	0.00003	0.0177 mg/L	0.00003	0.15%
Ti 337.279†	3641925.8	4.083 mg/L	0.0002	4.083 mg/L	0.0002	0.01%
Tl 190.801†	20.1	0.0323 mg/L	0.00265	0.0323 mg/L	0.00265	8.23%
V 292.402†	173212.5	0.6492 mg/L	0.00511	0.6492 mg/L	0.00511	0.79%
Zn 213.857†	22950.7	0.2530 mg/L	0.00296	0.2530 mg/L	0.00296	1.17%

Sequence No.: 57
Sample ID: 0606078-10X10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 53
Date Collected: 6/7/2006 9:13:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606078-10X10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1907.1	1252.1	0.6125	mg/L	0.6125	mg/L	21:14:49
1	Li 670.784†	384.6	232.9	0.0017	mg/L	0.0017	mg/L	21:14:49
1	Na 589.592	12856.2	3732.6	0.2583	mg/L	0.2583	mg/L	21:14:49
1	Y 371.029	3826069.4	3826069.4	0.995	mg/L			21:15:05
1	Ag 328.068†	24302.4	26763.0	0.0901	mg/L	0.0901	mg/L	21:15:10
1	Al 237.313†	38887.7	39276.5	4.505	mg/L	4.505	mg/L	21:15:10
1	As 188.979†	14.2	7.4	0.0089	mg/L	0.0089	mg/L	21:15:30
1	B 182.528†	-1.8	5.1	0.0103	mg/L	0.0103	mg/L	21:15:30
1	Ba 233.527†	8811.8	9023.2	0.0746	mg/L	0.0746	mg/L	21:15:10
1	Be 313.107†	1967.0	1645.9	0.0003	mg/L	0.0003	mg/L	21:15:10
1	Ca 315.886†	272331.1	271277.1	1.610	mg/L	1.610	mg/L	21:15:05
1	Cd 228.802†	280.1	132.7	0.0032	mg/L	0.0032	mg/L	21:15:30
1	Co 228.616†	66.5	264.2	0.0045	mg/L	0.0045	mg/L	21:15:30
1	Cr 267.716†	27482.9	25692.2	0.1485	mg/L	0.1485	mg/L	21:15:10
1	Cu 324.752†	1797504.5	1803073.0	7.059	mg/L	7.059	mg/L	21:15:05
1	Fe 234.349†	863360.0	865931.9	15.40	mg/L	15.40	mg/L	21:15:05
1	Fe 238.204†	1890423.3	1898364.9	15.37	mg/L	15.37	mg/L	21:15:05
1	Mg 279.077†	39728.3	39267.5	1.484	mg/L	1.484	mg/L	21:15:10
1	Mn 257.610†	183581.7	183020.3	0.1933	mg/L	0.1933	mg/L	21:15:05
1	Mo 202.031†	89.0	71.6	0.0038	mg/L	0.0038	mg/L	21:15:30
1	Ni 231.604†	2620.4	2599.5	0.0700	mg/L	0.0700	mg/L	21:15:10
1	P 214.914†	3149.5	3104.0	2.036	mg/L	2.036	mg/L	21:15:10
1	Pb 220.353†	7296.6	7490.5	0.7732	mg/L	0.7732	mg/L	21:15:10
1	Sb 206.836†	10.3	5.4	-0.0015	mg/L	-0.0015	mg/L	21:15:30
1	Se 196.026†	-5.0	5.2	0.0025	mg/L	0.0025	mg/L	21:15:30
1	Sn 189.927†	1577.4	1369.5	0.3172	mg/L	0.3172	mg/L	21:15:30
1	Sr 407.771†	259633.1	254532.9	0.0100	mg/L	0.0100	mg/L	21:15:05
1	Ti 337.279†	211559.5	214782.6	0.2399	mg/L	0.2399	mg/L	21:15:05
1	Tl 190.801†	-6.1	9.9	0.0287	mg/L	0.0287	mg/L	21:15:30
1	V 292.402†	9054.0	10675.9	0.0391	mg/L	0.0391	mg/L	21:15:10
1	Zn 213.857†	163540.8	163540.2	1.846	mg/L	1.846	mg/L	21:15:10
2	K 766.490†	1917.1	1266.1	0.6193	mg/L	0.6193	mg/L	21:14:55
2	Li 670.784†	415.7	265.0	0.0025	mg/L	0.0025	mg/L	21:14:55
2	Na 589.592	12910.9	3787.3	0.2649	mg/L	0.2649	mg/L	21:14:55
2	Y 371.029	3818261.6	3818261.6	0.993	mg/L			21:15:37
2	Ag 328.068†	24410.7	26921.9	0.0906	mg/L	0.0906	mg/L	21:15:43
2	Al 237.313†	38861.9	39330.4	4.512	mg/L	4.512	mg/L	21:15:43
2	As 188.979†	12.8	6.0	0.0072	mg/L	0.0072	mg/L	21:16:03
2	B 182.528†	0.3	7.2	0.0144	mg/L	0.0144	mg/L	21:16:03
2	Ba 233.527†	8747.3	8976.3	0.0742	mg/L	0.0742	mg/L	21:15:43
2	Be 313.107†	2001.2	1684.3	0.0004	mg/L	0.0004	mg/L	21:15:43
2	Ca 315.886†	271399.8	270899.0	1.607	mg/L	1.607	mg/L	21:15:37
2	Cd 228.802†	272.8	125.9	0.0030	mg/L	0.0030	mg/L	21:16:03
2	Co 228.616†	45.8	243.5	0.0040	mg/L	0.0040	mg/L	21:16:03
2	Cr 267.716†	27441.8	25707.3	0.1486	mg/L	0.1486	mg/L	21:15:43
2	Cu 324.752†	1799057.2	1808329.2	7.080	mg/L	7.080	mg/L	21:15:37
2	Fe 234.349†	858847.7	863162.9	15.35	mg/L	15.35	mg/L	21:15:37
2	Fe 238.204†	1882850.4	1894624.6	15.34	mg/L	15.34	mg/L	21:15:37
2	Mg 279.077†	39804.0	39425.3	1.490	mg/L	1.490	mg/L	21:15:43
2	Mn 257.610†	183089.5	182901.9	0.1931	mg/L	0.1931	mg/L	21:15:37
2	Mo 202.031†	99.7	82.6	0.0045	mg/L	0.0045	mg/L	21:16:03
2	Ni 231.604†	2615.4	2599.9	0.0700	mg/L	0.0700	mg/L	21:15:43

2	P 214.914†	3129.0	3089.8	2.027 mg/L	2.027 mg/L	21:15:43
2	Pb 220.353†	7234.7	7443.2	0.7683 mg/L	0.7683 mg/L	21:15:43
2	Sb 206.836†	9.6	4.7	-0.0019 mg/L	-0.0019 mg/L	21:16:03
2	Se 196.026†	-0.5	9.7	0.0074 mg/L	0.0074 mg/L	21:16:03
2	Sn 189.927†	1574.0	1369.4	0.3172 mg/L	0.3172 mg/L	21:16:03
2	Sr 407.771†	258898.3	254326.5	0.0100 mg/L	0.0100 mg/L	21:15:37
2	Ti 337.279†	210712.0	214364.1	0.2395 mg/L	0.2395 mg/L	21:15:37
2	Tl 190.801†	-14.1	1.8	0.0225 mg/L	0.0225 mg/L	21:16:03
2	V 292.402†	8989.2	10629.3	0.0389 mg/L	0.0389 mg/L	21:15:43
2	Zn 213.857†	162809.8	163140.3	1.841 mg/L	1.841 mg/L	21:15:43

Mean Data: 0606078-10X10

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3822165.5	0.994	mg/L	0.0014				0.14%
Ag 328.068†	26842.4	0.0903	mg/L	0.00037	0.0903	mg/L	0.00037	0.41%
Al 237.313†	39303.5	4.509	mg/L	0.0046	4.509	mg/L	0.0046	0.10%
As 188.979†	6.7	0.0081	mg/L	0.00121	0.0081	mg/L	0.00121	14.88%
B 182.528†	6.1	0.0124	mg/L	0.00290	0.0124	mg/L	0.00290	23.43%
Ba 233.527†	8999.7	0.0744	mg/L	0.00027	0.0744	mg/L	0.00027	0.37%
Be 313.107†	1665.1	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	1.66%
Ca 315.886†	271088.0	1.609	mg/L	0.0016	1.609	mg/L	0.0016	0.10%
Cd 228.802†	129.3	0.0031	mg/L	0.00010	0.0031	mg/L	0.00010	3.09%
Co 228.616†	253.9	0.0042	mg/L	0.00034	0.0042	mg/L	0.00034	8.09%
Cr 267.716†	25699.7	0.1486	mg/L	0.00006	0.1486	mg/L	0.00006	0.04%
Cu 324.752†	1805701.1	7.070	mg/L	0.0145	7.070	mg/L	0.0145	0.21%
Fe 234.349†	864547.4	15.37	mg/L	0.035	15.37	mg/L	0.035	0.23%
Fe 238.204†	1896494.7	15.36	mg/L	0.021	15.36	mg/L	0.021	0.14%
K 766.490†	1259.1	0.6159	mg/L	0.00475	0.6159	mg/L	0.00475	0.77%
Li 670.784†	249.0	0.0021	mg/L	0.00059	0.0021	mg/L	0.00059	27.54%
Mg 279.077†	39346.4	1.487	mg/L	0.0043	1.487	mg/L	0.0043	0.29%
Mn 257.610†	182961.1	0.1932	mg/L	0.00009	0.1932	mg/L	0.00009	0.05%
Mo 202.031†	77.1	0.0042	mg/L	0.00048	0.0042	mg/L	0.00048	11.56%
Na 589.592	3760.0	0.2616	mg/L	0.00466	0.2616	mg/L	0.00466	1.78%
Ni 231.604†	2599.7	0.0700	mg/L	0.00001	0.0700	mg/L	0.00001	0.01%
P 214.914†	3096.9	2.031	mg/L	0.0065	2.031	mg/L	0.0065	0.32%
Pb 220.353†	7466.8	0.7708	mg/L	0.00347	0.7708	mg/L	0.00347	0.45%
Sb 206.836†	5.1	-0.0017	mg/L	0.00022	-0.0017	mg/L	0.00022	13.02%
Se 196.026†	7.4	0.0049	mg/L	0.00343	0.0049	mg/L	0.00343	69.46%
Sn 189.927†	1369.4	0.3172	mg/L	0.00003	0.3172	mg/L	0.00003	0.01%
Sr 407.771†	254429.7	0.0100	mg/L	0.00001	0.0100	mg/L	0.00001	0.06%
Ti 337.279†	214573.3	0.2397	mg/L	0.00033	0.2397	mg/L	0.00033	0.14%
Tl 190.801†	5.9	0.0256	mg/L	0.00443	0.0256	mg/L	0.00443	17.29%
V 292.402†	10652.6	0.0390	mg/L	0.00011	0.0390	mg/L	0.00011	0.29%
Zn 213.857†	163340.3	1.844	mg/L	0.0032	1.844	mg/L	0.0032	0.17%

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Sequence No.: 58
Sample ID: 0606078-17X10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 54
Date Collected: 6/7/2006 9:17:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606078-17X10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1528.9	921.4	0.4533	mg/L	0.4533	mg/L	21:19:18
1	Li 670.784†	347.4	206.8	0.0010	mg/L	0.0010	mg/L	21:19:18
1	Na 589.592	25157.9	16034.4	1.739	mg/L	1.739	mg/L	21:19:18
1	Y 371.029	3707287.2	3707287.2	0.964	mg/L			21:19:41
1	Ag 328.068†	110417.8	116837.0	0.3913	mg/L	0.3913	mg/L	21:19:47
1	Al 237.313†	39272.4	40927.3	4.716	mg/L	4.716	mg/L	21:19:47
1	As 188.979†	7.3	0.7	0.0005	mg/L	0.0005	mg/L	21:20:07
1	B 182.528†	-9.2	-2.6	-0.0048	mg/L	-0.0048	mg/L	21:20:07
1	Ba 233.527†	49871.2	51880.7	0.4270	mg/L	0.4270	mg/L	21:19:47
1	Be 313.107†	1498.8	1223.7	0.0003	mg/L	0.0003	mg/L	21:19:47
1	Ca 315.886†	28628114.4	29681718.6	177.6	mg/L	177.6	mg/L	21:19:35
1	Cd 228.802†	465.1	333.5	0.0074	mg/L	0.0074	mg/L	21:20:07
1	Co 228.616†	-25.7	170.8	0.0025	mg/L	0.0025	mg/L	21:20:07
1	Cr 267.716†	12386.1	10923.2	0.0629	mg/L	0.0629	mg/L	21:19:47

1	Cu 324.752†	279226.7	286657.0	1.123 mg/L	1.123 mg/L	21:19:41
1	Fe 234.349†	602017.7	622742.2	11.07 mg/L	11.07 mg/L	21:19:41
1	Fe 238.204†	1317249.7	1364903.8	11.05 mg/L	11.05 mg/L	21:19:41
1	Mg 279.077†	252638.4	261309.6	9.980 mg/L	9.980 mg/L	21:19:47
1	Mn 257.610†	228673.7	235685.1	0.2497 mg/L	0.2497 mg/L	21:19:47
1	Mo 202.031†	230.2	220.9	0.0131 mg/L	0.0131 mg/L	21:20:07
1	Ni 231.604†	3235.5	3321.7	0.0902 mg/L	0.0902 mg/L	21:20:07
1	P 214.914†	126771.3	131386.9	85.34 mg/L	85.34 mg/L	21:19:47
1	Pb 220.353†	17205.7	18000.0	1.867 mg/L	1.867 mg/L	21:19:47
1	Sb 206.836†	7.8	3.2	-0.0001 mg/L	-0.0001 mg/L	21:20:07
1	Se 196.026†	-10.7	-0.9	-0.0040 mg/L	-0.0040 mg/L	21:20:07
1	Sn 189.927†	610.0	417.2	0.0936 mg/L	0.0936 mg/L	21:20:07
1	Sr 407.771†	Saturated2	Saturated2			21:20:07
Saturated in preshot (code 2)						
1	Ti 337.279†	130178.2	137209.8	0.1530 mg/L	0.1530 mg/L	21:19:47
1	Tl 190.801†	48.7	66.5	0.0730 mg/L	0.0730 mg/L	21:20:07
1	V 292.402†	46136.2	49417.3	0.1888 mg/L	0.1888 mg/L	21:19:47
1	Zn 213.857†	136508.8	140775.7	1.589 mg/L	1.589 mg/L	21:19:47
2	K 766.490†	1581.2	998.3	0.4903 mg/L	0.4903 mg/L	21:19:23
2	Li 670.784†	343.8	208.0	0.0011 mg/L	0.0011 mg/L	21:19:23
2	Na 589.592	25350.0	16226.5	1.762 mg/L	1.762 mg/L	21:19:23
2	Y 371.029	3656825.3	3656825.3	0.951 mg/L		21:20:23
2	Ag 328.068†	111041.0	119072.0	0.3987 mg/L	0.3987 mg/L	21:20:28
2	Al 237.313†	39493.0	41721.1	4.809 mg/L	4.809 mg/L	21:20:28
2	As 188.979†	2.6	-4.2	-0.0055 mg/L	-0.0055 mg/L	21:20:48
2	B 182.528†	-13.3	-7.1	-0.0135 mg/L	-0.0135 mg/L	21:20:48
2	Ba 233.527†	49875.4	52598.7	0.4329 mg/L	0.4329 mg/L	21:20:28
2	Be 313.107†	1404.3	1145.8	0.0003 mg/L	0.0003 mg/L	21:20:28
2	Ca 315.886†	28208296.7	29650030.7	177.4 mg/L	177.4 mg/L	21:20:16
2	Cd 228.802†	461.8	336.7	0.0075 mg/L	0.0075 mg/L	21:20:48
2	Co 228.616†	-41.9	153.4	0.0021 mg/L	0.0021 mg/L	21:20:48
2	Cr 267.716†	12390.6	11105.1	0.0639 mg/L	0.0639 mg/L	21:20:28
2	Cu 324.752†	274456.4	285637.7	1.119 mg/L	1.119 mg/L	21:20:23
2	Fe 234.349†	592440.0	621288.1	11.05 mg/L	11.05 mg/L	21:20:23
2	Fe 238.204†	1299590.8	1365188.6	11.06 mg/L	11.06 mg/L	21:20:23
2	Mg 279.077†	254068.4	266427.6	10.18 mg/L	10.18 mg/L	21:20:28
2	Mn 257.610†	229614.7	239946.3	0.2543 mg/L	0.2543 mg/L	21:20:28
2	Mo 202.031†	227.3	221.2	0.0131 mg/L	0.0131 mg/L	21:20:48
2	Ni 231.604†	3241.7	3374.5	0.0917 mg/L	0.0917 mg/L	21:20:48
2	P 214.914†	126939.5	133377.6	86.63 mg/L	86.63 mg/L	21:20:28
2	Pb 220.353†	17239.0	18281.2	1.896 mg/L	1.896 mg/L	21:20:28
2	Sb 206.836†	-1.5	-6.5	-0.0045 mg/L	-0.0045 mg/L	21:20:48
2	Se 196.026†	-8.7	1.0	-0.0019 mg/L	-0.0019 mg/L	21:20:48
2	Sn 189.927†	595.9	411.2	0.0922 mg/L	0.0922 mg/L	21:20:48
2	Sr 407.771†	Saturated2	Saturated2			21:20:48
Saturated in preshot (code 2)						
2	Ti 337.279†	130512.2	139423.5	0.1554 mg/L	0.1554 mg/L	21:20:28
2	Tl 190.801†	38.2	56.2	0.0651 mg/L	0.0651 mg/L	21:20:48
2	V 292.402†	46395.9	50350.4	0.1924 mg/L	0.1924 mg/L	21:20:28
2	Zn 213.857†	136497.9	142717.4	1.611 mg/L	1.611 mg/L	21:20:28

Mean Data: 0606078-17X10

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3682056.2	0.958	mg/L	0.0093				0.97%
Ag 328.068†	117954.5	0.3950	mg/L	0.00529	0.3950	mg/L	0.00529	1.34%
Al 237.313†	41324.2	4.762	mg/L	0.0654	4.762	mg/L	0.0654	1.37%
As 188.979†	-1.8	-0.0025	mg/L	0.00424	-0.0025	mg/L	0.00424	172.96%
B 182.528†	-4.9	-0.0091	mg/L	0.00617	-0.0091	mg/L	0.00617	67.50%
Ba 233.527†	52239.7	0.4300	mg/L	0.00417	0.4300	mg/L	0.00417	0.97%
Be 313.107†	1184.8	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	4.69%
Ca 315.886†	29665874.6	177.5	mg/L	0.13	177.5	mg/L	0.13	0.08%
Cd 228.802†	335.1	0.0075	mg/L	0.00007	0.0075	mg/L	0.00007	0.95%
Co 228.616†	162.1	0.0023	mg/L	0.00029	0.0023	mg/L	0.00029	12.92%
Cr 267.716†	11014.2	0.0634	mg/L	0.00074	0.0634	mg/L	0.00074	1.17%
Cu 324.752†	286147.4	1.121	mg/L	0.0028	1.121	mg/L	0.0028	0.25%
Fe 234.349†	622015.1	11.06	mg/L	0.018	11.06	mg/L	0.018	0.17%
Fe 238.204†	1365046.2	11.05	mg/L	0.002	11.05	mg/L	0.002	0.01%
K 766.490†	959.8	0.4718	mg/L	0.02617	0.4718	mg/L	0.02617	5.55%
Li 670.784†	207.4	0.0011	mg/L	0.00002	0.0011	mg/L	0.00002	2.03%
Mg 279.077†	263868.6	10.08	mg/L	0.138	10.08	mg/L	0.138	1.37%

Mn 257.610†	237815.7	0.2520 mg/L	0.00323	0.2520 mg/L	0.00323	1.28%
Mo 202.031†	221.1	0.0131 mg/L	0.00001	0.0131 mg/L	0.00001	0.09%
Na 589.592	16130.4	1.751 mg/L	0.0164	1.751 mg/L	0.0164	0.93%
Ni 231.604†	3348.1	0.0910 mg/L	0.00105	0.0910 mg/L	0.00105	1.15%
P 214.914†	132382.2	85.98 mg/L	0.914	85.98 mg/L	0.914	1.06%
Pb 220.353†	18140.6	1.881 mg/L	0.0206	1.881 mg/L	0.0206	1.10%
Sb 206.836†	-1.7	-0.0023 mg/L	0.00307	-0.0023 mg/L	0.00307	132.31%
Se 196.026†	0.1	-0.0030 mg/L	0.00147	-0.0030 mg/L	0.00147	49.26%
Sn 189.927†	414.2	0.0929 mg/L	0.00101	0.0929 mg/L	0.00101	1.08%
Sr 407.771†	Saturated2					
Ti 337.279†	138316.7	0.1542 mg/L	0.00176	0.1542 mg/L	0.00176	1.14%
Tl 190.801†	61.3	0.0691 mg/L	0.00562	0.0691 mg/L	0.00562	8.14%
V 292.402†	49883.9	0.1906 mg/L	0.00254	0.1906 mg/L	0.00254	1.33%
Zn 213.857†	141746.6	1.600 mg/L	0.0155	1.600 mg/L	0.0155	0.97%

Sequence No.: 59
Sample ID: 0606118-03
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 55
Date Collected: 6/7/2006 9:22:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606118-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	26880.3	25899.3	12.48	mg/L	12.48	mg/L	21:24:03
1	Li 670.784†	4723.7	4514.5	0.1125	mg/L	0.1125	mg/L	21:24:03
1	Na 589.592	113109.4	103985.8	12.33	mg/L	12.33	mg/L	21:24:03
1	Y 371.029	3889917.2	3889917.2	1.01	mg/L			21:24:35
1	Ag 328.068†	-4391.0	-1992.7	0.0060	mg/L	0.0060	mg/L	21:24:40
1	Al 237.313†	969374.3	958145.2	110.0	mg/L	110.0	mg/L	21:24:35
1	As 188.979†	60.3	52.7	0.0559	mg/L	0.0559	mg/L	21:25:01
1	B 182.528†	138.4	143.6	0.2809	mg/L	0.2809	mg/L	21:25:01
1	Ba 233.527†	97939.9	96954.6	0.7977	mg/L	0.7977	mg/L	21:24:40
1	Be 313.107†	28340.4	27675.7	-0.0030	mg/L	-0.0030	mg/L	21:24:40
1	Ca 315.886†	8682566.6	8577808.6	51.31	mg/L	51.31	mg/L	21:24:27
1	Cd 228.802†	585.4	429.8	0.0119	mg/L	0.0119	mg/L	21:25:01
1	Co 228.616†	5783.3	5912.6	0.1163	mg/L	0.1163	mg/L	21:25:01
1	Cr 267.716†	24472.2	22263.8	0.1447	mg/L	0.1447	mg/L	21:24:40
1	Cu 324.752†	461327.7	453016.7	1.838	mg/L	1.838	mg/L	21:24:40
1	Fe 234.349†	18048672.0	17834276.5	317.2	mg/L	317.2	mg/L	21:24:27
1	Fe 238.204†	33071575.8	32680508.2	264.7	mg/L	264.7	mg/L	21:24:27
1	Mg 279.077†	1034278.7	1021430.4	38.97	mg/L	38.97	mg/L	21:24:35
1	Mn 257.610†	3142751.5	3104254.2	3.323	mg/L	3.323	mg/L	21:24:35
1	Mo 202.031†	444.6	421.6	0.0255	mg/L	0.0255	mg/L	21:25:01
1	Ni 231.604†	5023.6	4931.2	0.1355	mg/L	0.1355	mg/L	21:25:01
1	P 214.914†	36731.6	36238.0	23.55	mg/L	23.55	mg/L	21:25:01
1	Pb 220.353†	8380.8	8441.6	0.8805	mg/L	0.8805	mg/L	21:25:01
1	Sb 206.836†	49.3	43.8	0.0063	mg/L	0.0063	mg/L	21:25:01
1	Se 196.026†	10.7	20.8	0.0193	mg/L	0.0193	mg/L	21:25:01
1	Sn 189.927†	110.8	-105.8	-0.0069	mg/L	-0.0069	mg/L	21:25:01
1	Sr 407.771†	2709518.1	2671235.7	0.1082	mg/L	0.1082	mg/L	21:24:35
1	Ti 337.279†	8734458.6	8633650.8	9.681	mg/L	9.681	mg/L	21:24:27
1	Tl 190.801†	-29.3	-12.9	0.0464	mg/L	0.0464	mg/L	21:25:01
1	V 292.402†	79804.8	80442.8	0.2562	mg/L	0.2562	mg/L	21:24:40
1	Zn 213.857†	464307.9	458062.4	5.150	mg/L	5.150	mg/L	21:24:40
2	K 766.490†	26773.3	25890.8	12.47	mg/L	12.47	mg/L	21:24:08
2	Li 670.784†	4711.7	4519.8	0.1126	mg/L	0.1126	mg/L	21:24:08
2	Na 589.592	112707.5	103583.9	12.28	mg/L	12.28	mg/L	21:24:08
2	Y 371.029	3875675.7	3875675.7	1.01	mg/L			21:25:24
2	Ag 328.068†	-4322.7	-1940.9	0.0061	mg/L	0.0061	mg/L	21:25:30
2	Al 237.313†	967259.3	959567.5	110.2	mg/L	110.2	mg/L	21:25:24
2	As 188.979†	55.3	48.0	0.0501	mg/L	0.0501	mg/L	21:25:50
2	B 182.528†	143.0	148.7	0.2908	mg/L	0.2908	mg/L	21:25:50
2	Ba 233.527†	97316.7	96692.1	0.7956	mg/L	0.7956	mg/L	21:25:30
2	Be 313.107†	28212.8	27652.1	-0.0030	mg/L	-0.0030	mg/L	21:25:30
2	Ca 315.886†	8630073.3	8557272.3	51.19	mg/L	51.19	mg/L	21:25:16
2	Cd 228.802†	589.5	435.9	0.0121	mg/L	0.0121	mg/L	21:25:50
2	Co 228.616†	5836.4	5986.2	0.1181	mg/L	0.1181	mg/L	21:25:50
2	Cr 267.716†	24308.5	22190.3	0.1442	mg/L	0.1442	mg/L	21:25:30
2	Cu 324.752†	458988.0	452371.2	1.835	mg/L	1.835	mg/L	21:25:30

2	Fe 234.349†	17910731.7	17763001.3	315.9 mg/L	315.9 mg/L	21:25:16
2	Fe 238.204†	32919734.7	32649997.3	264.5 mg/L	264.5 mg/L	21:25:16
2	Mg 279.077†	1030442.7	1021381.4	38.97 mg/L	38.97 mg/L	21:25:24
2	Mn 257.610†	3133440.2	3106431.0	3.325 mg/L	3.325 mg/L	21:25:24
2	Mo 202.031†	420.0	398.8	0.0241 mg/L	0.0241 mg/L	21:25:50
2	Ni 231.604†	5064.3	4989.9	0.1372 mg/L	0.1372 mg/L	21:25:50
2	P 214.914†	36682.4	36322.6	23.61 mg/L	23.61 mg/L	21:25:50
2	Pb 220.353†	8358.8	8450.2	0.8815 mg/L	0.8815 mg/L	21:25:50
2	Sb 206.836†	47.5	42.2	0.0057 mg/L	0.0057 mg/L	21:25:50
2	Se 196.026†	-0.0	10.1	0.0078 mg/L	0.0078 mg/L	21:25:50
2	Sn 189.927†	135.0	-81.3	-0.0012 mg/L	-0.0012 mg/L	21:25:50
2	Sr 407.771†	2701047.3	2672673.0	0.1082 mg/L	0.1082 mg/L	21:25:24
2	Ti 337.279†	8686858.1	8618155.8	9.664 mg/L	9.664 mg/L	21:25:16
2	Tl 190.801†	-42.5	-26.1	0.0362 mg/L	0.0362 mg/L	21:25:50
2	V 292.402†	79378.1	80309.3	0.2559 mg/L	0.2559 mg/L	21:25:30
2	Zn 213.857†	461237.1	456702.6	5.135 mg/L	5.135 mg/L	21:25:30

Mean Data: 0606118-03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3882796.5	1.01	mg/L	0.003				0.26%
Ag 328.068†	-1966.8	0.0061	mg/L	0.00009	0.0061	mg/L	0.00009	1.42%
Al 237.313†	958856.4	110.1	mg/L	0.12	110.1	mg/L	0.12	0.11%
As 188.979†	50.4	0.0530	mg/L	0.00411	0.0530	mg/L	0.00411	7.76%
B 182.528†	146.1	0.2859	mg/L	0.00699	0.2859	mg/L	0.00699	2.45%
Ba 233.527†	96823.4	0.7966	mg/L	0.00153	0.7966	mg/L	0.00153	0.19%
Be 313.107†	27663.9	-0.0030	mg/L	0.00000	-0.0030	mg/L	0.00000	0.16%
Ca 315.886†	8567540.4	51.25	mg/L	0.087	51.25	mg/L	0.087	0.17%
Cd 228.802†	432.9	0.0120	mg/L	0.00012	0.0120	mg/L	0.00012	0.97%
Co 228.616†	5949.4	0.1172	mg/L	0.00124	0.1172	mg/L	0.00124	1.06%
Cr 267.716†	22227.0	0.1445	mg/L	0.00035	0.1445	mg/L	0.00035	0.25%
Cu 324.752†	452694.0	1.836	mg/L	0.0020	1.836	mg/L	0.0020	0.11%
Fe 234.349†	17798638.9	316.6	mg/L	0.90	316.6	mg/L	0.90	0.28%
Fe 238.204†	32665252.7	264.6	mg/L	0.17	264.6	mg/L	0.17	0.07%
K 766.490†	25895.0	12.48	mg/L	0.003	12.48	mg/L	0.003	0.02%
Li 670.784†	4517.1	0.1125	mg/L	0.00010	0.1125	mg/L	0.00010	0.09%
Mg 279.077†	1021405.9	38.97	mg/L	0.001	38.97	mg/L	0.001	0.00%
Mn 257.610†	3105342.6	3.324	mg/L	0.0016	3.324	mg/L	0.0016	0.05%
Mo 202.031†	410.2	0.0248	mg/L	0.00100	0.0248	mg/L	0.00100	4.02%
Na 589.592	103784.9	12.30	mg/L	0.034	12.30	mg/L	0.034	0.28%
Ni 231.604†	4960.5	0.1363	mg/L	0.00117	0.1363	mg/L	0.00117	0.85%
P 214.914†	36280.3	23.58	mg/L	0.039	23.58	mg/L	0.039	0.16%
Pb 220.353†	8445.9	0.8810	mg/L	0.00070	0.8810	mg/L	0.00070	0.08%
Sb 206.836†	43.0	0.0060	mg/L	0.00047	0.0060	mg/L	0.00047	7.79%
Se 196.026†	15.4	0.0136	mg/L	0.00813	0.0136	mg/L	0.00813	59.79%
Sn 189.927†	-93.6	-0.0040	mg/L	0.00401	-0.0040	mg/L	0.00401	99.11%
Sr 407.771†	2671954.3	0.1082	mg/L	0.00004	0.1082	mg/L	0.00004	0.04%
Ti 337.279†	8625903.3	9.672	mg/L	0.0123	9.672	mg/L	0.0123	0.13%
Tl 190.801†	-19.5	0.0413	mg/L	0.00717	0.0413	mg/L	0.00717	17.35%
V 292.402†	80376.0	0.2561	mg/L	0.00025	0.2561	mg/L	0.00025	0.10%
Zn 213.857†	457382.5	5.142	mg/L	0.0108	5.142	mg/L	0.0108	0.21%

Sequence No.: 60
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/7/2006 9:27:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	50045.0	50940.9	24.53	mg/L	24.53	mg/L	21:29:03
1	Li 670.784†	18939.6	19376.4	0.4970	mg/L	0.4970	mg/L	21:29:03
1	Na 589.592	214291.5	205167.9	24.50	mg/L	24.50	mg/L	21:29:03
1	Y 371.029	3727837.0	3727837.0	0.970	mg/L			21:29:18
1	Ag 328.068†	68868.1	73361.1	0.2458	mg/L	0.2458	mg/L	21:29:23
1	Al 237.313†	20243.8	21081.0	2.448	mg/L	2.448	mg/L	21:29:23
1	As 188.979†	374.6	379.4	0.4681	mg/L	0.4681	mg/L	21:29:43
1	B 182.528†	228.0	241.9	0.4730	mg/L	0.4730	mg/L	21:29:43

1	Ba 233.527†	57909.9	59884.9	0.4929 mg/L	0.4929 mg/L	21:29:23
1	Be 313.107†	229159.6	235971.8	0.0483 mg/L	0.0483 mg/L	21:29:23
1	Ca 315.886†	798595.5	821154.3	4.902 mg/L	4.902 mg/L	21:29:18
1	Cd 228.802†	11337.7	11542.3	0.2449 mg/L	0.2449 mg/L	21:29:43
1	Co 228.616†	20286.2	21115.9	0.4911 mg/L	0.4911 mg/L	21:29:23
1	Cr 267.716†	84013.5	84712.4	0.4882 mg/L	0.4882 mg/L	21:29:23
1	Cu 324.752†	125965.4	127022.7	0.4972 mg/L	0.4972 mg/L	21:29:23
1	Fe 234.349†	135992.8	138750.9	2.460 mg/L	2.460 mg/L	21:29:23
1	Fe 238.204†	296557.2	304868.4	2.466 mg/L	2.466 mg/L	21:29:23
1	Mg 279.077†	124878.4	128123.4	4.891 mg/L	4.891 mg/L	21:29:23
1	Mn 257.610†	451840.8	464500.9	0.4949 mg/L	0.4949 mg/L	21:29:18
1	Mo 202.031†	7692.6	7914.6	0.4902 mg/L	0.4902 mg/L	21:29:43
1	Ni 231.604†	17234.2	17738.3	0.4954 mg/L	0.4954 mg/L	21:29:23
1	P 214.914†	7250.5	7416.2	4.836 mg/L	4.836 mg/L	21:29:43
1	Pb 220.353†	4453.2	4751.6	0.4930 mg/L	0.4930 mg/L	21:29:43
1	Sb 206.836†	1074.7	1103.3	0.4795 mg/L	0.4795 mg/L	21:29:43
1	Se 196.026†	857.2	894.1	0.9614 mg/L	0.9614 mg/L	21:29:43
1	Sn 189.927†	2123.5	1974.5	0.4589 mg/L	0.4589 mg/L	21:29:43
1	Sr 407.771†	1199713.0	1230787.5	0.0497 mg/L	0.0497 mg/L	21:29:18
1	Ti 337.279†	422825.8	438234.7	0.4905 mg/L	0.4905 mg/L	21:29:18
1	Tl 190.801†	658.9	695.4	0.5591 mg/L	0.5591 mg/L	21:29:43
1	V 292.402†	121780.6	127155.8	0.4960 mg/L	0.4960 mg/L	21:29:23
1	Zn 213.857†	42859.3	43426.9	0.4879 mg/L	0.4879 mg/L	21:29:23
2	K 766.490†	49810.8	50650.2	24.39 mg/L	24.39 mg/L	21:29:08
2	Li 670.784†	18866.3	19282.2	0.4945 mg/L	0.4945 mg/L	21:29:08
2	Na 589.592	213723.7	204600.2	24.44 mg/L	24.44 mg/L	21:29:08
2	Y 371.029	3731416.0	3731416.0	0.971 mg/L		21:29:50
2	Ag 328.068†	69310.1	73748.4	0.2471 mg/L	0.2471 mg/L	21:29:55
2	Al 237.313†	20161.0	20975.8	2.436 mg/L	2.436 mg/L	21:29:55
2	As 188.979†	385.2	390.0	0.4811 mg/L	0.4811 mg/L	21:30:16
2	B 182.528†	234.6	248.6	0.4861 mg/L	0.4861 mg/L	21:30:16
2	Ba 233.527†	57693.4	59604.6	0.4906 mg/L	0.4906 mg/L	21:29:55
2	Be 313.107†	228538.6	235105.4	0.0482 mg/L	0.0482 mg/L	21:29:55
2	Ca 315.886†	798303.9	820064.1	4.895 mg/L	4.895 mg/L	21:29:50
2	Cd 228.802†	11357.5	11551.5	0.2451 mg/L	0.2451 mg/L	21:30:16
2	Co 228.616†	20248.1	21056.6	0.4897 mg/L	0.4897 mg/L	21:29:55
2	Cr 267.716†	83662.3	84267.5	0.4857 mg/L	0.4857 mg/L	21:29:55
2	Cu 324.752†	126152.0	127090.4	0.4975 mg/L	0.4975 mg/L	21:29:55
2	Fe 234.349†	135559.2	138169.7	2.450 mg/L	2.450 mg/L	21:29:55
2	Fe 238.204†	295604.4	303593.6	2.456 mg/L	2.456 mg/L	21:29:55
2	Mg 279.077†	124632.4	127746.5	4.876 mg/L	4.876 mg/L	21:29:55
2	Mn 257.610†	451710.7	463920.1	0.4943 mg/L	0.4943 mg/L	21:29:50
2	Mo 202.031†	7712.1	7927.1	0.4910 mg/L	0.4910 mg/L	21:30:16
2	Ni 231.604†	17231.8	17718.7	0.4948 mg/L	0.4948 mg/L	21:29:55
2	P 214.914†	7255.9	7414.6	4.835 mg/L	4.835 mg/L	21:30:16
2	Pb 220.353†	4434.9	4728.4	0.4906 mg/L	0.4906 mg/L	21:30:16
2	Sb 206.836†	1090.6	1118.6	0.4864 mg/L	0.4864 mg/L	21:30:16
2	Se 196.026†	871.1	907.6	0.9759 mg/L	0.9759 mg/L	21:30:16
2	Sn 189.927†	2137.2	1986.4	0.4617 mg/L	0.4617 mg/L	21:30:16
2	Sr 407.771†	1199064.5	1228933.0	0.0496 mg/L	0.0496 mg/L	21:29:50
2	Ti 337.279†	422757.7	437746.4	0.4900 mg/L	0.4900 mg/L	21:29:50
2	Tl 190.801†	646.2	681.7	0.5484 mg/L	0.5484 mg/L	21:30:16
2	V 292.402†	121176.7	126413.2	0.4932 mg/L	0.4932 mg/L	21:29:55
2	Zn 213.857†	42777.2	43300.0	0.4865 mg/L	0.4865 mg/L	21:29:55

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3729626.5	0.970	mg/L	0.0007				0.07%
Ag 328.068†	73554.7	0.2464	mg/L	0.00092	0.2464	mg/L	0.00092	0.37%
QC value within limits for Ag 328.068 Recovery = 98.57%								
Al 237.313†	21028.4	2.442	mg/L	0.0086	2.442	mg/L	0.0086	0.35%
QC value within limits for Al 237.313 Recovery = 97.68%								
As 188.979†	384.7	0.4746	mg/L	0.00920	0.4746	mg/L	0.00920	1.94%
QC value within limits for As 188.979 Recovery = 94.92%								
B 182.528†	245.3	0.4796	mg/L	0.00921	0.4796	mg/L	0.00921	1.92%
QC value within limits for B 182.528 Recovery = 95.91%								
Ba 233.527†	59744.8	0.4917	mg/L	0.00163	0.4917	mg/L	0.00163	0.33%
QC value within limits for Ba 233.527 Recovery = 98.35%								
Be 313.107†	235538.6	0.0483	mg/L	0.00013	0.0483	mg/L	0.00013	0.26%
QC value within limits for Be 313.107 Recovery = 96.50%								

Ca 315.886†	820609.2	4.899 mg/L	0.0046	4.899 mg/L	0.0046	0.09%
QC value within limits for Ca 315.886 Recovery = 97.97%						
Cd 228.802†	11546.9	0.2450 mg/L	0.00008	0.2450 mg/L	0.00008	0.03%
QC value within limits for Cd 228.802 Recovery = 98.00%						
Co 228.616†	21086.3	0.4904 mg/L	0.00098	0.4904 mg/L	0.00098	0.20%
QC value within limits for Co 228.616 Recovery = 98.08%						
Cr 267.716†	84489.9	0.4869 mg/L	0.00182	0.4869 mg/L	0.00182	0.37%
QC value within limits for Cr 267.716 Recovery = 97.39%						
Cu 324.752†	127056.5	0.4974 mg/L	0.00019	0.4974 mg/L	0.00019	0.04%
QC value within limits for Cu 324.752 Recovery = 99.47%						
Fe 234.349†	138460.3	2.455 mg/L	0.0073	2.455 mg/L	0.0073	0.30%
QC value within limits for Fe 234.349 Recovery = 98.21%						
Fe 238.204†	304231.0	2.461 mg/L	0.0073	2.461 mg/L	0.0073	0.30%
QC value within limits for Fe 238.204 Recovery = 98.45%						
K 766.490†	50795.5	24.46 mg/L	0.099	24.46 mg/L	0.099	0.40%
QC value within limits for K 766.490 Recovery = 97.85%						
Li 670.784†	19329.3	0.4957 mg/L	0.00172	0.4957 mg/L	0.00172	0.35%
QC value within limits for Li 670.784 Recovery = 99.15%						
Mg 279.077†	127934.9	4.884 mg/L	0.0102	4.884 mg/L	0.0102	0.21%
QC value within limits for Mg 279.077 Recovery = 97.67%						
Mn 257.610†	464210.5	0.4946 mg/L	0.00044	0.4946 mg/L	0.00044	0.09%
QC value within limits for Mn 257.610 Recovery = 98.92%						
Mo 202.031†	7920.8	0.4906 mg/L	0.00055	0.4906 mg/L	0.00055	0.11%
QC value within limits for Mo 202.031 Recovery = 98.11%						
Na 589.592	204884.0	24.47 mg/L	0.048	24.47 mg/L	0.048	0.20%
QC value within limits for Na 589.592 Recovery = 97.88%						
Ni 231.604†	17728.5	0.4951 mg/L	0.00039	0.4951 mg/L	0.00039	0.08%
QC value within limits for Ni 231.604 Recovery = 99.02%						
P 214.914†	7415.4	4.836 mg/L	0.0008	4.836 mg/L	0.0008	0.02%
QC value within limits for P 214.914 Recovery = 96.71%						
Pb 220.353†	4740.0	0.4918 mg/L	0.00170	0.4918 mg/L	0.00170	0.35%
QC value within limits for Pb 220.353 Recovery = 98.36%						
Sb 206.836†	1110.9	0.4830 mg/L	0.00483	0.4830 mg/L	0.00483	1.00%
QC value within limits for Sb 206.836 Recovery = 96.59%						
Se 196.026†	900.8	0.9686 mg/L	0.01026	0.9686 mg/L	0.01026	1.06%
QC value within limits for Se 196.026 Recovery = 96.86%						
Sn 189.927†	1980.4	0.4603 mg/L	0.00198	0.4603 mg/L	0.00198	0.43%
QC value within limits for Sn 189.927 Recovery = 92.05%						
Sr 407.771†	1229860.2	0.0496 mg/L	0.00005	0.0496 mg/L	0.00005	0.11%
QC value within limits for Sr 407.771 Recovery = 99.26%						
Ti 337.279†	437990.6	0.4903 mg/L	0.00039	0.4903 mg/L	0.00039	0.08%
QC value within limits for Ti 337.279 Recovery = 98.05%						
Tl 190.801†	688.6	0.5537 mg/L	0.00751	0.5537 mg/L	0.00751	1.36%
QC value greater than the upper limit for Tl 190.801 Recovery = 110.75%						
V 292.402†	126784.5	0.4946 mg/L	0.00201	0.4946 mg/L	0.00201	0.41%
QC value within limits for V 292.402 Recovery = 98.92%						
Zn 213.857†	43363.4	0.4872 mg/L	0.00102	0.4872 mg/L	0.00102	0.21%
QC value within limits for Zn 213.857 Recovery = 97.44%						

QC Failed. Continue with analysis.

Sequence No.: 61
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/7/2006 9:31:54 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	680.8	20.3	0.0195	mg/L	0.0195	mg/L	21:33:29
1	Li 670.784†	235.9	83.7	-0.0021	mg/L	-0.0021	mg/L	21:33:29
1	Na 589.592	6166.4	-2957.2	-0.5468	mg/L	-0.5468	mg/L	21:33:29
1	Y 371.029	3824515.1	3824515.1	0.995	mg/L			21:33:43
1	Ag 328.068†	-2190.5	144.8	0.0004	mg/L	0.0004	mg/L	21:33:48
1	Al 237.313†	-180.8	24.6	0.0081	mg/L	0.0081	mg/L	21:34:08
1	As 188.979†	5.7	-1.2	-0.0013	mg/L	-0.0013	mg/L	21:34:08
1	B 182.528†	2.2	9.0	0.0180	mg/L	0.0180	mg/L	21:34:08
1	Ba 233.527†	-171.4	-2.3	0.0003	mg/L	0.0003	mg/L	21:34:08
1	Be 313.107†	313.9	-14.9	0.0001	mg/L	0.0001	mg/L	21:33:48
1	Ca 315.886†	2676.0	357.3	-0.0115	mg/L	-0.0115	mg/L	21:33:48

1	Cd 228.802†	137.9	-10.1	0.0001 mg/L	0.0001 mg/L	21:34:08
1	Co 228.616†	-208.0	-11.6	-0.0015 mg/L	-0.0015 mg/L	21:34:08
1	Cr 267.716†	1846.6	-63.7	-0.0010 mg/L	-0.0010 mg/L	21:33:48
1	Cu 324.752†	3079.2	226.0	0.0003 mg/L	0.0003 mg/L	21:33:48
1	Fe 234.349†	1505.1	32.1	-0.0015 mg/L	-0.0015 mg/L	21:33:48
1	Fe 238.204†	1041.8	115.0	-0.0029 mg/L	-0.0029 mg/L	21:34:08
1	Mg 279.077†	646.2	2.2	-0.0146 mg/L	-0.0146 mg/L	21:33:48
1	Mn 257.610†	1175.0	-242.1	-0.0031 mg/L	-0.0031 mg/L	21:33:48
1	Mo 202.031†	40.3	22.7	0.0008 mg/L	0.0008 mg/L	21:34:08
1	Ni 231.604†	42.6	9.7	-0.0027 mg/L	-0.0027 mg/L	21:34:08
1	P 214.914†	57.6	-2.4	0.0188 mg/L	0.0188 mg/L	21:34:08
1	Pb 220.353†	-145.7	13.2	0.0001 mg/L	0.0001 mg/L	21:34:08
1	Sb 206.836†	8.3	3.4	0.0007 mg/L	0.0007 mg/L	21:34:08
1	Se 196.026†	-8.6	1.5	-0.0015 mg/L	-0.0015 mg/L	21:34:08
1	Sn 189.927†	87.5	-127.3	-0.0347 mg/L	-0.0347 mg/L	21:34:08
1	Sr 407.771†	5987.4	-301.0	-0.0004 mg/L	-0.0004 mg/L	21:33:43
1	Ti 337.279†	-2097.6	121.7	-0.0008 mg/L	-0.0008 mg/L	21:33:48
1	Tl 190.801†	-5.7	10.3	0.0263 mg/L	0.0263 mg/L	21:34:08
1	V 292.402†	-1560.7	10.8	0.0004 mg/L	0.0004 mg/L	21:33:48
1	Zn 213.857†	751.8	-12.6	-0.0004 mg/L	-0.0004 mg/L	21:34:08
2	K 766.490†	679.6	33.3	0.0258 mg/L	0.0258 mg/L	21:33:35
2	Li 670.784†	133.6	-16.4	-0.0047 mg/L	-0.0047 mg/L	21:33:35
2	Na 589.592	6239.4	-2884.2	-0.5381 mg/L	-0.5381 mg/L	21:33:35
2	Y 371.029	3746862.5	3746862.5	0.975 mg/L		21:34:14
2	Ag 328.068†	-2187.5	102.3	0.0002 mg/L	0.0002 mg/L	21:34:19
2	Al 237.313†	-189.9	11.5	0.0066 mg/L	0.0066 mg/L	21:34:40
2	As 188.979†	7.5	0.8	0.0011 mg/L	0.0011 mg/L	21:34:40
2	B 182.528†	0.8	7.7	0.0155 mg/L	0.0155 mg/L	21:34:40
2	Ba 233.527†	-140.0	26.4	0.0006 mg/L	0.0006 mg/L	21:34:40
2	Be 313.107†	294.3	-28.5	0.0001 mg/L	0.0001 mg/L	21:34:19
2	Ca 315.886†	2603.4	338.6	-0.0116 mg/L	-0.0116 mg/L	21:34:19
2	Cd 228.802†	144.5	-0.4	0.0003 mg/L	0.0003 mg/L	21:34:40
2	Co 228.616†	-193.5	-1.1	-0.0012 mg/L	-0.0012 mg/L	21:34:40
2	Cr 267.716†	1807.8	-65.0	-0.0010 mg/L	-0.0010 mg/L	21:34:19
2	Cu 324.752†	3087.8	298.9	0.0005 mg/L	0.0005 mg/L	21:34:19
2	Fe 234.349†	1527.9	86.8	-0.0005 mg/L	-0.0005 mg/L	21:34:19
2	Fe 238.204†	1015.0	109.2	-0.0030 mg/L	-0.0030 mg/L	21:34:40
2	Mg 279.077†	630.9	0.0	-0.0147 mg/L	-0.0147 mg/L	21:34:19
2	Mn 257.610†	1163.4	-229.6	-0.0030 mg/L	-0.0030 mg/L	21:34:19
2	Mo 202.031†	25.8	8.7	-0.0001 mg/L	-0.0001 mg/L	21:34:40
2	Ni 231.604†	34.7	2.5	-0.0029 mg/L	-0.0029 mg/L	21:34:40
2	P 214.914†	64.5	5.8	0.0242 mg/L	0.0242 mg/L	21:34:40
2	Pb 220.353†	-141.8	14.2	0.0002 mg/L	0.0002 mg/L	21:34:40
2	Sb 206.836†	10.1	5.5	0.0016 mg/L	0.0016 mg/L	21:34:40
2	Se 196.026†	-3.9	6.1	0.0035 mg/L	0.0035 mg/L	21:34:40
2	Sn 189.927†	76.2	-137.1	-0.0370 mg/L	-0.0370 mg/L	21:34:40
2	Sr 407.771†	6001.5	-161.8	-0.0003 mg/L	-0.0003 mg/L	21:34:14
2	Ti 337.279†	-1919.3	261.0	-0.0006 mg/L	-0.0006 mg/L	21:34:19
2	Tl 190.801†	-6.8	9.0	0.0253 mg/L	0.0253 mg/L	21:34:40
2	V 292.402†	-1482.9	58.1	0.0006 mg/L	0.0006 mg/L	21:34:19
2	Zn 213.857†	723.1	-26.4	-0.0006 mg/L	-0.0006 mg/L	21:34:40

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3785688.8	0.985	mg/L	0.0143				1.45%
Ag 328.068†	123.6	0.0003	mg/L	0.00010	0.0003	mg/L	0.00010	32.23%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	18.0	0.0073	mg/L	0.00108	0.0073	mg/L	0.00108	14.76%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	-0.2	-0.0001	mg/L	0.00170	-0.0001	mg/L	0.00170	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	8.4	0.0168	mg/L	0.00181	0.0168	mg/L	0.00181	10.81%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	12.1	0.0005	mg/L	0.00017	0.0005	mg/L	0.00017	36.91%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-21.7	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	1.52%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	347.9	-0.0115	mg/L	0.00008	-0.0115	mg/L	0.00008	0.67%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	-5.3	0.0002	mg/L	0.00014	0.0002	mg/L	0.00014	85.85%

QC value within limits for Cd 228.802 Recovery = Not calculated

Co 228.616†	-6.4	-0.0013	mg/L	0.00017	-0.0013	mg/L	0.00017 13.10%

QC value within limits for Co 228.616 Recovery = Not calculated

Cr 267.716†	-64.3	-0.0010	mg/L	0.00001	-0.0010	mg/L	0.00001 0.53%

QC value within limits for Cr 267.716 Recovery = Not calculated

Cu 324.752†	262.5	0.0004	mg/L	0.00020	0.0004	mg/L	0.00020 51.01%

QC value within limits for Cu 324.752 Recovery = Not calculated

Fe 234.349†	59.5	-0.0010	mg/L	0.00069	-0.0010	mg/L	0.00069 69.78%

QC value within limits for Fe 234.349 Recovery = Not calculated

Fe 238.204†	112.1	-0.0029	mg/L	0.00003	-0.0029	mg/L	0.00003 1.13%

QC value within limits for Fe 238.204 Recovery = Not calculated

K 766.490†	26.8	0.0227	mg/L	0.00440	0.0227	mg/L	0.00440 19.42%

QC value within limits for K 766.490 Recovery = Not calculated

Li 670.784†	33.7	-0.0034	mg/L	0.00183	-0.0034	mg/L	0.00183 53.22%

QC value within limits for Li 670.784 Recovery = Not calculated

Mg 279.077†	1.1	-0.0146	mg/L	0.00006	-0.0146	mg/L	0.00006 0.41%

QC value less than the lower limit for Mg 279.077 Recovery = Not calculated

Mn 257.610†	-235.9	-0.0030	mg/L	0.00001	-0.0030	mg/L	0.00001 0.31%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031†	15.7	0.0004	mg/L	0.00061	0.0004	mg/L	0.00061 169.40%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592	-2920.7	-0.5425	mg/L	0.00621	-0.5425	mg/L	0.00621 1.15%

QC value within limits for Na 589.592 Recovery = Not calculated

Ni 231.604†	6.1	-0.0028	mg/L	0.00014	-0.0028	mg/L	0.00014 5.09%

QC value less than the lower limit for Ni 231.604 Recovery = Not calculated

P 214.914†	1.7	0.0215	mg/L	0.00378	0.0215	mg/L	0.00378 17.58%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353†	13.7	0.0001	mg/L	0.00007	0.0001	mg/L	0.00007 57.88%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.836†	4.4	0.0011	mg/L	0.00064	0.0011	mg/L	0.00064 55.87%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026†	3.8	0.0010	mg/L	0.00353	0.0010	mg/L	0.00353 342.17%

QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.927†	-132.2	-0.0358	mg/L	0.00161	-0.0358	mg/L	0.00161 4.50%

QC value less than the lower limit for Sn 189.927 Recovery = Not calculated

Sr 407.771†	-231.4	-0.0003	mg/L	0.00000	-0.0003	mg/L	0.00000 1.15%

QC value within limits for Sr 407.771 Recovery = Not calculated

Ti 337.279†	191.4	-0.0007	mg/L	0.00011	-0.0007	mg/L	0.00011 15.69%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 190.801†	9.7	0.0258	mg/L	0.00069	0.0258	mg/L	0.00069 2.67%

QC value within limits for Tl 190.801 Recovery = Not calculated

V 292.402†	34.4	0.0005	mg/L	0.00012	0.0005	mg/L	0.00012 22.29%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857†	-19.5	-0.0005	mg/L	0.00011	-0.0005	mg/L	0.00011 20.96%

QC value within limits for Zn 213.857 Recovery = Not calculated

QC Failed. Continue with analysis.

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Sequence No.: 62 **Autosampler Location: 160**
Sample ID: ICSA **Date Collected: 6/7/2006 9:36:17 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490†	840.8	270.6	0.1400	mg/L	0.1400	mg/L	21:37:52
1	Li 670.784†	197.6	66.2	-0.0026	mg/L	-0.0026	mg/L	21:37:52
1	Na 589.592	7457.2	-1666.4	-0.3915	mg/L	-0.3915	mg/L	21:37:52
1	Y 371.029	3458279.2	3458279.2	0.900	mg/L			21:38:18
1	Ag 328.068†	-2993.8	-981.3	0.0003	mg/L	0.0003	mg/L	21:38:23
1	Al 237.313†	1963297.2	2182497.2	253.4	mg/L	253.4	mg/L	21:38:18
1	As 188.979†	6.5	0.3	0.0005	mg/L	0.0005	mg/L	21:38:44
1	B 182.528†	2.8	10.0	0.0199	mg/L	0.0199	mg/L	21:38:44
1	Ba 233.527†	89.5	269.5	0.0026	mg/L	0.0026	mg/L	21:38:44
1	Be 313.107†	-2192.1	-2767.0	0.0001	mg/L	0.0001	mg/L	21:38:23
1	Ca 315.886†	35883353.9	39883588.8	238.6	mg/L	238.6	mg/L	21:38:11
1	Cd 228.802†	98.3	-39.4	0.0001	mg/L	0.0001	mg/L	21:38:44
1	Co 228.616†	-152.9	27.4	-0.0006	mg/L	-0.0006	mg/L	21:38:44
1	Cr 267.716†	983.6	-826.4	0.0000	mg/L	0.0000	mg/L	21:38:23

1	Cu 324.752†	858.6	-1914.6	0.0083 mg/L	0.0083 mg/L	21:38:23
1	Fe 234.349†	4612217.0	5125200.7	91.16 mg/L	91.16 mg/L	21:38:18
1	Fe 238.204†	9514905.2	10575302.2	85.66 mg/L	85.66 mg/L	21:38:11
1	Mg 279.077†	5518640.9	6133564.0	234.6 mg/L	234.6 mg/L	21:38:18
1	Mn 257.610†	6153.2	5416.4	0.0030 mg/L	0.0030 mg/L	21:38:23
1	Mo 202.031†	237.1	245.8	0.0146 mg/L	0.0146 mg/L	21:38:44
1	Ni 231.604†	81.0	56.9	-0.0014 mg/L	-0.0014 mg/L	21:38:44
1	P 214.914†	-100.0	-171.4	-0.0909 mg/L	-0.0909 mg/L	21:38:44
1	Pb 220.353†	-593.9	-500.6	-0.0070 mg/L	-0.0070 mg/L	21:38:44
1	Sb 206.836†	10.7	7.0	0.0023 mg/L	0.0023 mg/L	21:38:44
1	Se 196.026†	11.1	22.5	0.0212 mg/L	0.0212 mg/L	21:38:44
1	Sn 189.927†	-44.7	-264.9	-0.0633 mg/L	-0.0633 mg/L	21:38:44
1	Sr 407.771†	23613.1	19928.0	0.0005 mg/L	0.0005 mg/L	21:38:23
1	Ti 337.279†	2420.8	4920.9	0.0046 mg/L	0.0046 mg/L	21:38:23
1	Tl 190.801†	68.8	92.5	0.0899 mg/L	0.0899 mg/L	21:38:44
1	V 292.402†	1331.4	3059.3	0.0005 mg/L	0.0005 mg/L	21:38:23
1	Zn 213.857†	2617.2	2140.9	0.0157 mg/L	0.0157 mg/L	21:38:44
2	K 766.490†	921.6	360.0	0.1831 mg/L	0.1831 mg/L	21:37:57
2	Li 670.784†	178.8	45.3	-0.0031 mg/L	-0.0031 mg/L	21:37:57
2	Na 589.592	7519.7	-1603.9	-0.3840 mg/L	-0.3840 mg/L	21:37:57
2	Y 371.029	3459829.5	3459829.5	0.900 mg/L		21:39:02
2	Ag 328.068†	-2886.6	-860.6	0.0007 mg/L	0.0007 mg/L	21:39:08
2	Al 237.313†	1965858.1	2184364.7	253.6 mg/L	253.6 mg/L	21:39:02
2	As 188.979†	-3.1	-10.3	-0.0126 mg/L	-0.0126 mg/L	21:39:28
2	B 182.528†	8.1	15.9	0.0314 mg/L	0.0314 mg/L	21:39:28
2	Ba 233.527†	129.4	313.8	0.0029 mg/L	0.0029 mg/L	21:39:28
2	Be 313.107†	-2305.1	-2891.4	0.0001 mg/L	0.0001 mg/L	21:39:08
2	Ca 315.886†	36145600.0	40157084.9	240.2 mg/L	240.2 mg/L	21:38:55
2	Cd 228.802†	89.6	-49.2	-0.0001 mg/L	-0.0001 mg/L	21:39:28
2	Co 228.616†	-140.7	41.2	-0.0002 mg/L	-0.0002 mg/L	21:39:28
2	Cr 267.716†	1006.3	-801.6	0.0002 mg/L	0.0002 mg/L	21:39:08
2	Cu 324.752†	855.6	-1918.3	0.0083 mg/L	0.0083 mg/L	21:39:08
2	Fe 234.349†	4624057.5	5136059.0	91.35 mg/L	91.35 mg/L	21:39:02
2	Fe 238.204†	9585035.6	10648481.5	86.26 mg/L	86.26 mg/L	21:38:55
2	Mg 279.077†	5514658.6	6126391.0	234.3 mg/L	234.3 mg/L	21:39:02
2	Mn 257.610†	6147.7	5407.2	0.0030 mg/L	0.0030 mg/L	21:39:08
2	Mo 202.031†	231.4	239.3	0.0142 mg/L	0.0142 mg/L	21:39:28
2	Ni 231.604†	79.0	54.6	-0.0014 mg/L	-0.0014 mg/L	21:39:28
2	P 214.914†	-87.5	-157.5	-0.0819 mg/L	-0.0819 mg/L	21:39:28
2	Pb 220.353†	-577.8	-482.3	-0.0051 mg/L	-0.0051 mg/L	21:39:28
2	Sb 206.836†	-2.4	-7.6	-0.0041 mg/L	-0.0041 mg/L	21:39:28
2	Se 196.026†	13.1	24.7	0.0236 mg/L	0.0236 mg/L	21:39:28
2	Sn 189.927†	-42.5	-262.4	-0.0627 mg/L	-0.0627 mg/L	21:39:28
2	Sr 407.771†	23926.1	20264.0	0.0005 mg/L	0.0005 mg/L	21:39:08
2	Ti 337.279†	2435.1	4935.5	0.0046 mg/L	0.0046 mg/L	21:39:08
2	Tl 190.801†	77.7	102.3	0.0975 mg/L	0.0975 mg/L	21:39:28
2	V 292.402†	1425.6	3163.3	0.0009 mg/L	0.0009 mg/L	21:39:08
2	Zn 213.857†	2572.8	2090.3	0.0151 mg/L	0.0151 mg/L	21:39:28

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3459054.3	0.900	mg/L	0.0003				0.03%
Ag 328.068†	-921.0	0.0005	mg/L	0.00029	0.0005	mg/L	0.00029	60.76%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	2183431.0	253.5	mg/L	0.15	253.5	mg/L	0.15	0.06%
QC value within limits for Al 237.313 Recovery = 101.42%								
As 188.979†	-5.0	-0.0061	mg/L	0.00930	-0.0061	mg/L	0.00930	153.54%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	12.9	0.0256	mg/L	0.00815	0.0256	mg/L	0.00815	31.78%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	291.6	0.0027	mg/L	0.00026	0.0027	mg/L	0.00026	9.37%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-2829.2	0.0001	mg/L	0.00002	0.0001	mg/L	0.00002	17.32%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	40020336.8	239.4	mg/L	1.16	239.4	mg/L	1.16	0.48%
QC value within limits for Ca 315.886 Recovery = 95.77%								
Cd 228.802†	-44.3	0.0000	mg/L	0.00009	0.0000	mg/L	0.00009	>999.9%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	34.3	-0.0004	mg/L	0.00023	-0.0004	mg/L	0.00023	58.10%
QC value within limits for Co 228.616 Recovery = Not calculated								

Cr 267.716†	-814.0	0.0001 mg/L	0.00011	0.0001 mg/L	0.00011	120.48%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-1916.5	0.0083 mg/L	0.00001	0.0083 mg/L	0.00001	0.17%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	5130629.9	91.25 mg/L	0.137	91.25 mg/L	0.137	0.15%
QC value within limits for Fe 234.349 Recovery = 91.25%						
Fe 238.204†	10611891.9	85.96 mg/L	0.419	85.96 mg/L	0.419	0.49%
QC value within limits for Fe 238.204 Recovery = 85.96%						
K 766.490†	315.3	0.1616 mg/L	0.03044	0.1616 mg/L	0.03044	18.84%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	55.7	-0.0029 mg/L	0.00038	-0.0029 mg/L	0.00038	13.34%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	6129977.5	234.5 mg/L	0.19	234.5 mg/L	0.19	0.08%
QC value within limits for Mg 279.077 Recovery = 93.78%						
Mn 257.610†	5411.8	0.0030 mg/L	0.00001	0.0030 mg/L	0.00001	0.23%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	242.6	0.0144 mg/L	0.00029	0.0144 mg/L	0.00029	1.99%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	-1635.1	-0.3877 mg/L	0.00532	-0.3877 mg/L	0.00532	1.37%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	55.7	-0.0014 mg/L	0.00005	-0.0014 mg/L	0.00005	3.23%
QC value within limits for Ni 231.604 Recovery = Not calculated						
P 214.914†	-164.4	-0.0864 mg/L	0.00641	-0.0864 mg/L	0.00641	7.42%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	-491.4	-0.0061 mg/L	0.00136	-0.0061 mg/L	0.00136	22.51%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-0.3	-0.0009 mg/L	0.00458	-0.0009 mg/L	0.00458	511.20%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	23.6	0.0224 mg/L	0.00170	0.0224 mg/L	0.00170	7.61%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-263.7	-0.0630 mg/L	0.00042	-0.0630 mg/L	0.00042	0.66%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	20096.0	0.0005 mg/L	0.00001	0.0005 mg/L	0.00001	2.02%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	4928.2	0.0046 mg/L	0.00001	0.0046 mg/L	0.00001	0.25%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	97.4	0.0937 mg/L	0.00536	0.0937 mg/L	0.00536	5.72%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	3111.3	0.0007 mg/L	0.00026	0.0007 mg/L	0.00026	35.87%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	2115.6	0.0154 mg/L	0.00042	0.0154 mg/L	0.00042	2.70%
QC value within limits for Zn 213.857 Recovery = Not calculated						

QC Failed. Continue with analysis.

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Sequence No.: 63
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 159
Date Collected: 6/7/2006 9:41:06 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	789.3	214.5	0.1130	mg/L	0.1130	mg/L	21:42:40
1	Li 670.784†	198.0	66.9	-0.0026	mg/L	-0.0026	mg/L	21:42:40
1	Na 589.592	7505.9	-1617.6	-0.3856	mg/L	-0.3856	mg/L	21:42:40
1	Y 371.029	3453814.8	3453814.8	0.898	mg/L			21:43:08
1	Ag 328.068†	139573.4	157688.9	0.5312	mg/L	0.5312	mg/L	21:43:13
1	Al 237.313†	1993914.4	2219394.4	257.7	mg/L	257.7	mg/L	21:43:08
1	As 188.979†	3.0	-3.5	-0.0045	mg/L	-0.0045	mg/L	21:43:33
1	B 182.528†	1.7	8.7	0.0174	mg/L	0.0174	mg/L	21:43:33
1	Ba 233.527†	26855.1	30059.2	0.2475	mg/L	0.2475	mg/L	21:43:13
1	Be 313.107†	1098470.3	1222245.8	0.2526	mg/L	0.2526	mg/L	21:43:08
1	Ca 315.886†	36868434.5	41031521.7	245.5	mg/L	245.5	mg/L	21:43:00
1	Cd 228.802†	19979.7	22088.3	0.4706	mg/L	0.4706	mg/L	21:43:13
1	Co 228.616†	8480.9	9636.5	0.2239	mg/L	0.2239	mg/L	21:43:33
1	Cr 267.716†	38255.2	40657.6	0.2395	mg/L	0.2395	mg/L	21:43:13
1	Cu 324.752†	57001.6	60572.8	0.2531	mg/L	0.2531	mg/L	21:43:13
1	Fe 234.349†	4679485.9	5206696.5	92.60	mg/L	92.60	mg/L	21:43:08
1	Fe 238.204†	9758244.3	10859805.0	87.97	mg/L	87.97	mg/L	21:43:00

1	Mg 279.077†	5607841.5	6240771.8	238.7 mg/L	238.7 mg/L	21:43:08
1	Mn 257.610†	210768.6	233158.2	0.2470 mg/L	0.2470 mg/L	21:43:13
1	Mo 202.031†	236.0	244.9	0.0146 mg/L	0.0146 mg/L	21:43:33
1	Ni 231.604†	14331.9	15918.0	0.4439 mg/L	0.4439 mg/L	21:43:13
1	P 214.914†	-32.4	-96.3	-0.0422 mg/L	-0.0422 mg/L	21:43:33
1	Pb 220.353†	3476.0	4028.4	0.4636 mg/L	0.4636 mg/L	21:43:33
1	Sb 206.836†	10.0	6.2	-0.0018 mg/L	-0.0018 mg/L	21:43:33
1	Se 196.026†	18.3	30.6	0.0299 mg/L	0.0299 mg/L	21:43:33
1	Sn 189.927†	-24.3	-242.3	-0.0579 mg/L	-0.0579 mg/L	21:43:33
1	Sr 407.771†	24044.1	20441.6	0.0005 mg/L	0.0005 mg/L	21:43:13
1	Ti 337.279†	2453.3	4960.5	0.0046 mg/L	0.0046 mg/L	21:43:13
1	Tl 190.801†	58.9	81.6	0.0833 mg/L	0.0833 mg/L	21:43:33
1	V 292.402†	58494.5	66682.7	0.2447 mg/L	0.2447 mg/L	21:43:13
1	Zn 213.857†	40782.1	44621.5	0.4930 mg/L	0.4930 mg/L	21:43:13
2	K 766.490†	816.3	243.3	0.1269 mg/L	0.1269 mg/L	21:42:46
2	Li 670.784†	200.1	69.0	-0.0025 mg/L	-0.0025 mg/L	21:42:46
2	Na 589.592	7566.2	-1557.4	-0.3784 mg/L	-0.3784 mg/L	21:42:46
2	Y 371.029	3458782.4	3458782.4	0.900 mg/L		21:43:52
2	Ag 328.068†	141402.3	159498.4	0.5373 mg/L	0.5373 mg/L	21:43:58
2	Al 237.313†	2009883.7	2233955.2	259.4 mg/L	259.4 mg/L	21:43:52
2	As 188.979†	-2.1	-9.2	-0.0117 mg/L	-0.0117 mg/L	21:44:18
2	B 182.528†	6.8	14.4	0.0285 mg/L	0.0285 mg/L	21:44:18
2	Ba 233.527†	27226.2	30428.7	0.2505 mg/L	0.2505 mg/L	21:43:58
2	Be 313.107†	1107304.0	1230307.5	0.2543 mg/L	0.2543 mg/L	21:43:52
2	Ca 315.886†	37142720.6	41277423.8	247.0 mg/L	247.0 mg/L	21:43:45
2	Cd 228.802†	20214.0	22316.8	0.4751 mg/L	0.4751 mg/L	21:43:58
2	Co 228.616†	6132.2	7012.6	0.1626 mg/L	0.1626 mg/L	21:44:18
2	Cr 267.716†	38836.6	41242.6	0.2429 mg/L	0.2429 mg/L	21:43:58
2	Cu 324.752†	57618.4	61167.2	0.2555 mg/L	0.2555 mg/L	21:43:58
2	Fe 234.349†	4716506.0	5240359.9	93.20 mg/L	93.20 mg/L	21:43:52
2	Fe 238.204†	9804968.7	10896135.0	88.26 mg/L	88.26 mg/L	21:43:45
2	Mg 279.077†	5660981.8	6290866.8	240.6 mg/L	240.6 mg/L	21:43:52
2	Mn 257.610†	212913.9	235205.6	0.2492 mg/L	0.2492 mg/L	21:43:58
2	Mo 202.031†	170.7	172.0	0.0100 mg/L	0.0100 mg/L	21:44:18
2	Ni 231.604†	14692.7	16296.1	0.4544 mg/L	0.4544 mg/L	21:43:58
2	P 214.914†	-11.8	-73.4	-0.0273 mg/L	-0.0273 mg/L	21:44:18
2	Pb 220.353†	2486.8	2923.5	0.3493 mg/L	0.3493 mg/L	21:44:18
2	Sb 206.836†	-7.4	-13.1	-0.0105 mg/L	-0.0105 mg/L	21:44:18
2	Se 196.026†	6.2	17.0	0.0153 mg/L	0.0153 mg/L	21:44:18
2	Sn 189.927†	-14.3	-231.1	-0.0553 mg/L	-0.0553 mg/L	21:44:18
2	Sr 407.771†	24283.5	20669.2	0.0005 mg/L	0.0005 mg/L	21:43:58
2	Ti 337.279†	2636.0	5159.7	0.0049 mg/L	0.0049 mg/L	21:43:58
2	Tl 190.801†	45.8	66.9	0.0723 mg/L	0.0723 mg/L	21:44:18
2	V 292.402†	59053.9	67210.9	0.2465 mg/L	0.2465 mg/L	21:43:58
2	Zn 213.857†	41306.0	45138.6	0.4987 mg/L	0.4987 mg/L	21:43:58

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3456298.6	0.899	mg/L	0.0009				0.10%
Ag 328.068†	158593.7	0.5342	mg/L	0.00430	0.5342	mg/L	0.00430	0.80%
QC value within limits for Ag 328.068 Recovery = 106.85%								
Al 237.313†	2226674.8	258.6	mg/L	1.20	258.6	mg/L	1.20	0.46%
QC value within limits for Al 237.313 Recovery = 103.43%								
As 188.979†	-6.4	-0.0081	mg/L	0.00504	-0.0081	mg/L	0.00504	62.14%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	11.6	0.0230	mg/L	0.00785	0.0230	mg/L	0.00785	34.21%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	30244.0	0.2490	mg/L	0.00215	0.2490	mg/L	0.00215	0.86%
QC value within limits for Ba 233.527 Recovery = 99.59%								
Be 313.107†	1226276.7	0.2535	mg/L	0.00118	0.2535	mg/L	0.00118	0.46%
QC value within limits for Be 313.107 Recovery = 101.39%								
Ca 315.886†	41154472.8	246.2	mg/L	1.04	246.2	mg/L	1.04	0.42%
QC value within limits for Ca 315.886 Recovery = 98.49%								
Cd 228.802†	22202.5	0.4728	mg/L	0.00324	0.4728	mg/L	0.00324	0.68%
QC value within limits for Cd 228.802 Recovery = 94.57%								
Co 228.616†	8324.5	0.1932	mg/L	0.04336	0.1932	mg/L	0.04336	22.44%
QC value less than the lower limit for Co 228.616 Recovery = 77.30%								
Cr 267.716†	40950.1	0.2412	mg/L	0.00241	0.2412	mg/L	0.00241	1.00%
QC value within limits for Cr 267.716 Recovery = 96.48%								
Cu 324.752†	60870.0	0.2543	mg/L	0.00172	0.2543	mg/L	0.00172	0.68%

QC value within limits for Cu 324.752 Recovery = 101.73%						
Fe 234.349†	5223528.2	92.90 mg/L	0.423	92.90 mg/L	0.423	0.46%
QC value within limits for Fe 234.349 Recovery = 92.90%						
Fe 238.204†	10877970.0	88.12 mg/L	0.208	88.12 mg/L	0.208	0.24%
QC value within limits for Fe 238.204 Recovery = 88.12%						
K 766.490†	228.9	0.1200 mg/L	0.00980	0.1200 mg/L	0.00980	8.17%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	67.9	-0.0026 mg/L	0.00004	-0.0026 mg/L	0.00004	1.49%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	6265819.3	239.7 mg/L	1.35	239.7 mg/L	1.35	0.57%
QC value within limits for Mg 279.077 Recovery = 95.86%						
Mn 257.610†	234181.9	0.2481 mg/L	0.00155	0.2481 mg/L	0.00155	0.63%
QC value within limits for Mn 257.610 Recovery = 99.25%						
Mo 202.031†	208.5	0.0123 mg/L	0.00320	0.0123 mg/L	0.00320	25.99%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	-1587.5	-0.3820 mg/L	0.00513	-0.3820 mg/L	0.00513	1.34%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	16107.0	0.4492 mg/L	0.00746	0.4492 mg/L	0.00746	1.66%
QC value within limits for Ni 231.604 Recovery = 89.83%						
P 214.914†	-84.9	-0.0347 mg/L	0.01052	-0.0347 mg/L	0.01052	30.30%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	3475.9	0.4065 mg/L	0.08086	0.4065 mg/L	0.08086	19.89%
QC value within limits for Pb 220.353 Recovery = 81.29%						
Sb 206.836†	-3.4	-0.0062 mg/L	0.00612	-0.0062 mg/L	0.00612	99.42%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	23.8	0.0226 mg/L	0.01033	0.0226 mg/L	0.01033	45.70%
QC value greater than the upper limit for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-236.7	-0.0566 mg/L	0.00187	-0.0566 mg/L	0.00187	3.30%
QC value less than the lower limit for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	20555.4	0.0005 mg/L	0.00001	0.0005 mg/L	0.00001	1.31%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	5060.1	0.0048 mg/L	0.00016	0.0048 mg/L	0.00016	3.32%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	74.3	0.0778 mg/L	0.00776	0.0778 mg/L	0.00776	9.97%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	66946.8	0.2456 mg/L	0.00132	0.2456 mg/L	0.00132	0.54%
QC value within limits for V 292.402 Recovery = 98.24%						
Zn 213.857†	44880.0	0.4958 mg/L	0.00404	0.4958 mg/L	0.00404	0.82%
QC value within limits for Zn 213.857 Recovery = 99.17%						

QC Failed. Continue with analysis.

Sequence No.: 64
Sample ID: WASH
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 0
Date Collected: 6/7/2006 9:45:56 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: WASH

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	718.0	63.4	0.0403	mg/L	0.0403	mg/L	21:47:23
1	Li 670.784†	245.0	94.7	-0.0019	mg/L	-0.0019	mg/L	21:47:23
1	Na 589.592	10408.8	1285.3	-0.0362	mg/L	-0.0362	mg/L	21:47:23
1	Y 371.029	3794828.1	3794828.1	0.987	mg/L			21:47:37
1	Ag 328.068†	-2003.9	316.6	0.0010	mg/L	0.0010	mg/L	21:47:42
1	Al 237.313†	96.5	304.0	0.0404	mg/L	0.0404	mg/L	21:48:02
1	As 188.979†	5.9	-0.9	-0.0011	mg/L	-0.0011	mg/L	21:48:02
1	B 182.528†	-7.1	-0.3	-0.0003	mg/L	-0.0003	mg/L	21:48:02
1	Ba 233.527†	-99.2	69.5	0.0009	mg/L	0.0009	mg/L	21:48:02
1	Be 313.107†	753.2	432.5	0.0002	mg/L	0.0002	mg/L	21:47:42
1	Ca 315.886†	10469.9	8273.3	0.0359	mg/L	0.0359	mg/L	21:47:42
1	Cd 228.802†	150.5	3.8	0.0004	mg/L	0.0004	mg/L	21:48:02
1	Co 228.616†	-105.5	90.6	0.0009	mg/L	0.0009	mg/L	21:48:02
1	Cr 267.716†	1958.0	63.7	-0.0003	mg/L	-0.0003	mg/L	21:47:42
1	Cu 324.752†	3348.2	522.7	0.0014	mg/L	0.0014	mg/L	21:47:42
1	Fe 234.349†	4096.4	2668.9	0.0454	mg/L	0.0454	mg/L	21:47:42
1	Fe 238.204†	6678.9	5833.4	0.0434	mg/L	0.0434	mg/L	21:47:42
1	Mg 279.077†	1448.4	819.9	0.0167	mg/L	0.0167	mg/L	21:47:42
1	Mn 257.610†	2308.8	915.5	-0.0018	mg/L	-0.0018	mg/L	21:47:42
1	Mo 202.031†	41.5	24.3	0.0009	mg/L	0.0009	mg/L	21:48:02

1	Ni 231.604†	54.0	21.6	-0.0024 mg/L	-0.0024 mg/L	21:48:02
1	P 214.914†	67.6	8.1	0.0257 mg/L	0.0257 mg/L	21:48:02
1	Pb 220.353†	-145.6	12.2	0.0000 mg/L	0.0000 mg/L	21:48:02
1	Sb 206.836†	11.4	6.6	0.0021 mg/L	0.0021 mg/L	21:48:02
1	Se 196.026†	-8.2	1.8	-0.0011 mg/L	-0.0011 mg/L	21:48:02
1	Sn 189.927†	96.5	-117.5	-0.0324 mg/L	-0.0324 mg/L	21:48:02
1	Sr 407.771†	9372.5	3175.0	-0.0002 mg/L	-0.0002 mg/L	21:47:37
1	Ti 337.279†	-1313.9	899.1	0.0001 mg/L	0.0001 mg/L	21:47:42
1	Tl 190.801†	-2.5	13.5	0.0288 mg/L	0.0288 mg/L	21:48:02
1	V 292.402†	-1463.0	97.5	0.0008 mg/L	0.0008 mg/L	21:47:42
1	Zn 213.857†	1000.8	245.6	0.0025 mg/L	0.0025 mg/L	21:48:02
2	K 766.490†	660.0	4.5	0.0119 mg/L	0.0119 mg/L	21:47:29
2	Li 670.784†	151.1	-0.4	-0.0043 mg/L	-0.0043 mg/L	21:47:29
2	Na 589.592	10373.1	1249.6	-0.0405 mg/L	-0.0405 mg/L	21:47:29
2	Y 371.029	3796048.6	3796048.6	0.988 mg/L		21:48:08
2	Ag 328.068†	-2199.6	119.1	0.0003 mg/L	0.0003 mg/L	21:48:14
2	Al 237.313†	91.7	299.2	0.0398 mg/L	0.0398 mg/L	21:48:34
2	As 188.979†	5.4	-1.4	-0.0016 mg/L	-0.0016 mg/L	21:48:34
2	B 182.528†	-2.1	4.8	0.0097 mg/L	0.0097 mg/L	21:48:34
2	Ba 233.527†	-126.1	42.3	0.0007 mg/L	0.0007 mg/L	21:48:34
2	Be 313.107†	544.9	221.4	0.0002 mg/L	0.0002 mg/L	21:48:14
2	Ca 315.886†	10402.5	8201.7	0.0354 mg/L	0.0354 mg/L	21:48:14
2	Cd 228.802†	142.1	-4.9	0.0002 mg/L	0.0002 mg/L	21:48:34
2	Co 228.616†	-98.7	97.5	0.0011 mg/L	0.0011 mg/L	21:48:34
2	Cr 267.716†	1957.1	62.1	-0.0003 mg/L	-0.0003 mg/L	21:48:14
2	Cu 324.752†	3400.3	574.3	0.0016 mg/L	0.0016 mg/L	21:48:14
2	Fe 234.349†	4214.5	2787.1	0.0475 mg/L	0.0475 mg/L	21:48:14
2	Fe 238.204†	6904.9	6060.1	0.0452 mg/L	0.0452 mg/L	21:48:14
2	Mg 279.077†	1451.0	822.0	0.0168 mg/L	0.0168 mg/L	21:48:14
2	Mn 257.610†	2292.0	897.8	-0.0018 mg/L	-0.0018 mg/L	21:48:14
2	Mo 202.031†	15.2	-2.4	-0.0008 mg/L	-0.0008 mg/L	21:48:34
2	Ni 231.604†	44.7	12.1	-0.0026 mg/L	-0.0026 mg/L	21:48:34
2	P 214.914†	73.1	13.7	0.0293 mg/L	0.0293 mg/L	21:48:34
2	Pb 220.353†	-147.7	10.1	-0.0003 mg/L	-0.0003 mg/L	21:48:34
2	Sb 206.836†	4.3	-0.5	-0.0011 mg/L	-0.0011 mg/L	21:48:34
2	Se 196.026†	-5.9	4.2	0.0014 mg/L	0.0014 mg/L	21:48:34
2	Sn 189.927†	101.8	-112.2	-0.0311 mg/L	-0.0311 mg/L	21:48:34
2	Sr 407.771†	9273.0	3071.2	-0.0002 mg/L	-0.0002 mg/L	21:48:08
2	Ti 337.279†	-1269.4	944.6	0.0001 mg/L	0.0001 mg/L	21:48:14
2	Tl 190.801†	-2.6	13.4	0.0287 mg/L	0.0287 mg/L	21:48:34
2	V 292.402†	-1544.7	15.2	0.0004 mg/L	0.0004 mg/L	21:48:14
2	Zn 213.857†	1037.1	282.0	0.0029 mg/L	0.0029 mg/L	21:48:34

Mean Data: WASH

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3795438.3	0.987	mg/L	0.0002				0.02%
Ag 328.068†	217.9	0.0006	mg/L	0.00047	0.0006	mg/L	0.00047	74.19%
Al 237.313†	301.6	0.0401	mg/L	0.00041	0.0401	mg/L	0.00041	1.02%
As 188.979†	-1.2	-0.0013	mg/L	0.00038	-0.0013	mg/L	0.00038	28.76%
B 182.528†	2.2	0.0047	mg/L	0.00705	0.0047	mg/L	0.00705	149.06%
Ba 233.527†	55.9	0.0008	mg/L	0.00016	0.0008	mg/L	0.00016	19.55%
Be 313.107†	327.0	0.0002	mg/L	0.00003	0.0002	mg/L	0.00003	14.64%
Ca 315.886†	8237.5	0.0357	mg/L	0.00030	0.0357	mg/L	0.00030	0.85%
Cd 228.802†	-0.5	0.0003	mg/L	0.00013	0.0003	mg/L	0.00013	45.68%
Co 228.616†	94.0	0.0010	mg/L	0.00011	0.0010	mg/L	0.00011	11.13%
Cr 267.716†	62.9	-0.0003	mg/L	0.00001	-0.0003	mg/L	0.00001	1.92%
Cu 324.752†	548.5	0.0015	mg/L	0.00014	0.0015	mg/L	0.00014	9.40%
Fe 234.349†	2728.0	0.0465	mg/L	0.00149	0.0465	mg/L	0.00149	3.20%
Fe 238.204†	5946.7	0.0443	mg/L	0.00130	0.0443	mg/L	0.00130	2.93%
K 766.490†	33.9	0.0261	mg/L	0.02005	0.0261	mg/L	0.02005	76.87%
Li 670.784†	47.1	-0.0031	mg/L	0.00174	-0.0031	mg/L	0.00174	56.31%
Mg 279.077†	821.0	0.0167	mg/L	0.00006	0.0167	mg/L	0.00006	0.34%
Mn 257.610†	906.7	-0.0018	mg/L	0.00001	-0.0018	mg/L	0.00001	0.74%
Mo 202.031†	10.9	0.0001	mg/L	0.00117	0.0001	mg/L	0.00117	>999.9%
Na 589.592	1267.4	-0.0384	mg/L	0.00304	-0.0384	mg/L	0.00304	7.92%
Ni 231.604†	16.8	-0.0025	mg/L	0.00019	-0.0025	mg/L	0.00019	7.58%
P 214.914†	10.9	0.0275	mg/L	0.00256	0.0275	mg/L	0.00256	9.32%
Pb 220.353†	11.1	-0.0001	mg/L	0.00016	-0.0001	mg/L	0.00016	107.60%
Sb 206.836†	3.1	0.0005	mg/L	0.00225	0.0005	mg/L	0.00225	444.67%
Se 196.026†	3.0	0.0002	mg/L	0.00178	0.0002	mg/L	0.00178	>999.9%

Sn 189.927†	-114.9	-0.0318 mg/L	0.00088	-0.0318 mg/L	0.00088	2.77%
Sr 407.771†	3123.1	-0.0002 mg/L	0.00000	-0.0002 mg/L	0.00000	1.41%
Ti 337.279†	921.9	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	31.23%
Tl 190.801†	13.5	0.0287 mg/L	0.00009	0.0287 mg/L	0.00009	0.31%
V 292.402†	56.3	0.0006 mg/L	0.00024	0.0006 mg/L	0.00024	40.58%
Zn 213.857†	263.8	0.0027 mg/L	0.00029	0.0027 mg/L	0.00029	10.90%

ANALYSIS SEQUENCE

BPG0164

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0164-CAL1	QC		1		6F05068		
BPG0164-CAL2	QC		2		6F08024		
BPG0164-CAL3	QC		3		6F08025		
BPG0164-CAL4	QC		4		6F08026		
BPG0164-CAL5	QC		5		6F08027		
BPG0164-ICV1	QC		6		6F08026		
BPG0164-SCV1	QC		7		6F08028		
BPG0164-ICB1	QC		8				
BF60721-BLK3	QC		9				
BF60721-BS3	QC		10				
BF60721-BSD3	QC		11				
BPG0164-CCB1	QC		12				
BPG0164-CCV1	QC		13		6F08026		
BF60721-SRM3	QC		14				
BF60721-DUP3	QC		15				
BF60721-MS3	QC		16				
BF60721-PS3	QC		17				
0606078-02	As: ppm Arsenic 7060	F	18				MACTEC Engineering & Consulting, In
0606078-03	As: ppm Arsenic 7060	F	19				MACTEC Engineering & Consulting, In
0606078-04	As: ppm Arsenic 7060	F	20				MACTEC Engineering & Consulting, In
0606078-05	As: ppm Arsenic 7060	F	21				MACTEC Engineering & Consulting, In
0606078-08	As: ppm Arsenic 7060	F	22				MACTEC Engineering & Consulting, In
BPG0164-CCB2	QC		23				
BPG0164-CCV2	QC		24		6F08026		
0606078-09	As: ppm Arsenic 7060	F	25				MACTEC Engineering & Consulting, In
0606078-10	As: ppm Arsenic 7060	F	26				MACTEC Engineering & Consulting, In
0606078-17	As: ppm Arsenic 7060	F	27				MACTEC Engineering & Consulting, In
BPG0164-SRD1	QC		28				
BPG0164-CCB3	QC		29				
BPG0164-CCV3	QC		30		6F08026		
BPG0164-CCV4	QC		31		6F08026		
BPG0164-CCV5	QC		32		6F08026		
BPG0164-CCV6	QC		33		6F08026		

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

BPG0164

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0164-CCB4	QC		34				
BPG0164-CCB5	QC		35				
BPG0164-CCB6	QC		36				

Samples Loaded By Date

Data Processed By Date

Autosampler Loading List

Sample Information File: 060806YA.SIF
Methods: As 5 ~~Tl 5~~

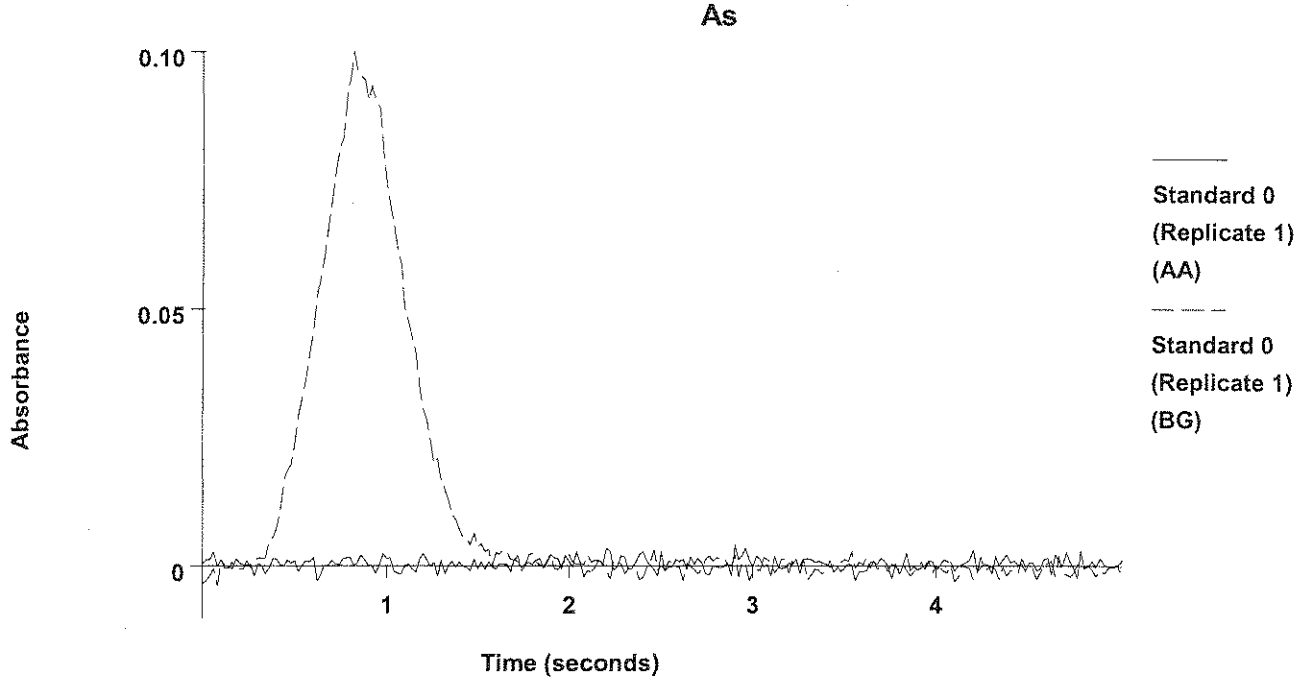
Location	Elements	Solution
1	As	Sample: 0606093-03 x5
2	As,Tl	Sample: bf60721-blk1
3	As,Tl	Sample: bf60721-bs1 x20
4	As,Tl	Sample: bf60721-bsd1 x20
5	As,Tl	Sample: bf60721-srm1 x50
6	As,Tl	Sample: ~~0606078-01 x5~~
7	As,Tl	Sample: 0606078-02 x5
8	As,Tl	Sample: 0606078-03 x5
9	As,Tl	Sample: 0606078-04 x5
10	As,Tl	Sample: 0606078-05 x5
11	As,Tl	Sample: bf60721-dup1 x5
12	As,Tl	Sample: bf60721-ms1 x20
13	As,Tl	Sample: bf60721-msd1 x20
14	As,Tl	Sample: bf60721-sd1 x25
15	As,Tl	Sample: 0606078-08 x5
16	As,Tl	Sample: 0606078-09 x5
17	As,Tl	Sample: 0606078-10 x5
18	As,Tl	Sample: 0606078-17 x5
121	As,Tl	Stock Standard: 5.0 µg/L
124	As,Tl	Stock Standard: 10.0 µg/L
126	As,Tl	Stock Standard: 25.0 µg/L
	As,Tl	STD 3: 25.0000 µg/L
	As,Tl	CCV: 25.0000 µg/L
129	As,Tl	Stock Standard: 50.0 µg/L
131	As,Tl	Recovery Stock: 50.0 µg/L
134	As,Tl	ICV: 25.0000 µg/L
136	As,Tl	CRA 2: 2.0000 µg/L
147	As,Tl	Modifier 1
148	As,Tl	Standard 0
	As,Tl	ICB/CCB: 0.0000 µg/L
	As,Tl	Diluent

Method Name: As 5
Method Description: As
Element: As

Date: 06/08/2006
Technique:Furnace
Calibration Type:
As, Calc. Intercept : Linear
Wavelength: 193.7 nm
Energy: 100
Slit Width: 0.7
Lamp Current: 350mA
Sample Info Name: 060806YA.SIF Results Data Set Name: 060806yad

Element: As Seq. No.: 1 AS Loc.: 148 Date: 06/08/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0017	0.0017	0.0040	0.0523	0.1000	02:03:15	Yes

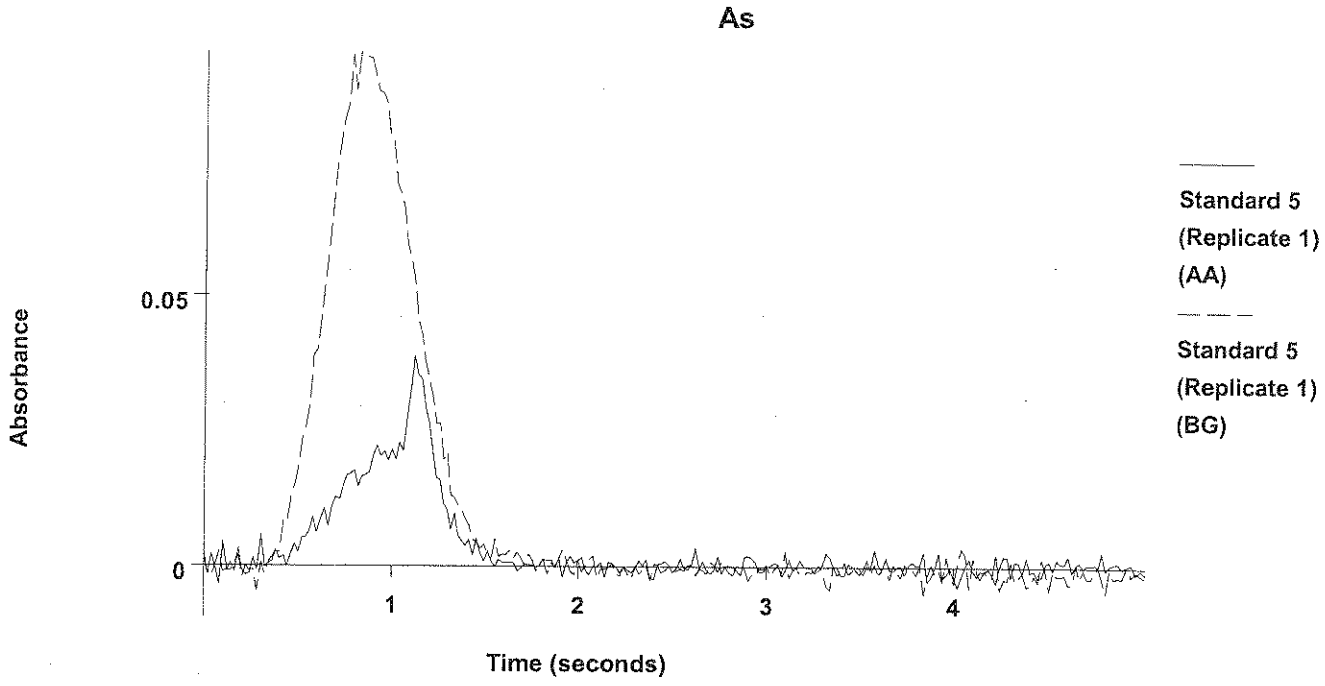


2			0.0003	0.0003	0.0034	0.0461	0.0905	02:06:05	Yes
Mean:			0.0010						
SD :			0.0010						
%RSD:			104.76						

Auto-zero performed.

Element: As Seq. No.: 2 AS Loc.: 121 Date: 06/08/2006
Sample ID: Standard 5
µL dispensed: 10 from 148, 5 from 147, 15 from 121

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0151	0.0161	0.0387	0.0496	0.0951	02:09:21	Yes

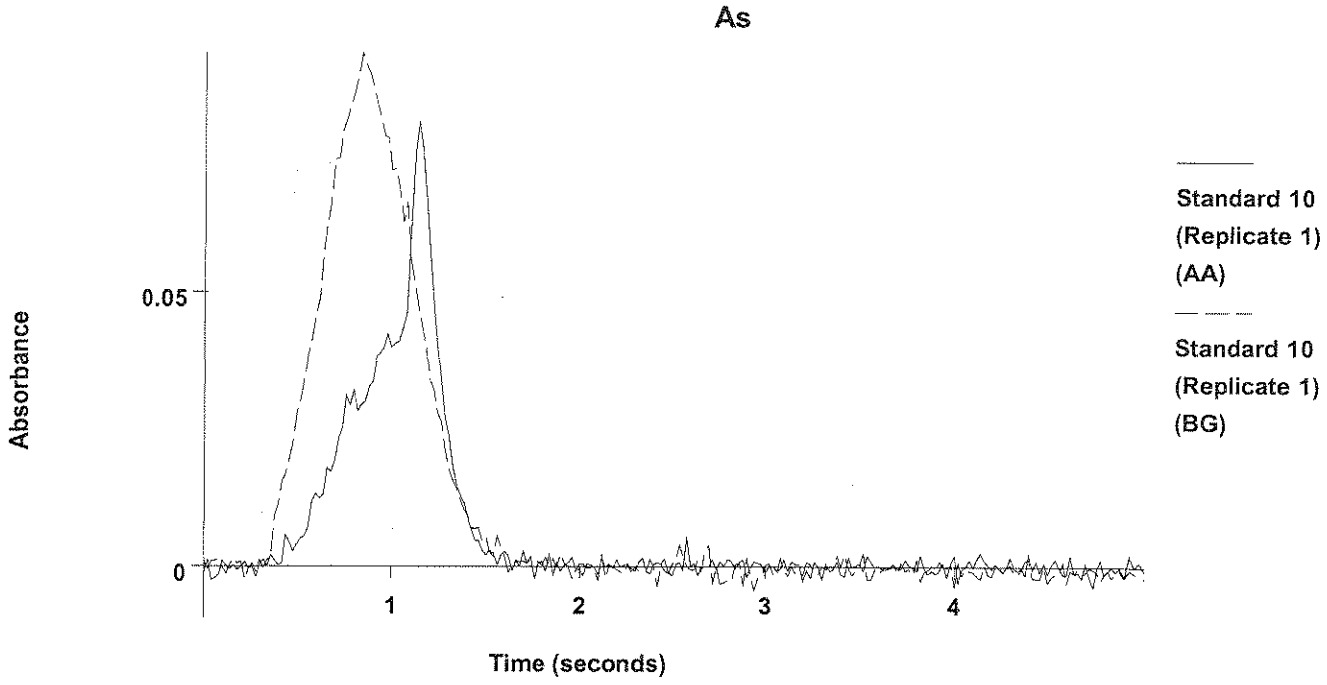


2		0.0155	0.0165	0.0383	0.0483	0.0953	02:12:12 Yes
Mean:		0.0153					
SD :		0.0003					
%RSD:		1.87					

[As] Standard number 1 applied. [5.0]
Correlation Coefficient: 1.00000 Slope: 0.00305
Intercept : 0.00000

Element: As Seq. No.: 3 AS Loc.: 124 Date: 06/08/2006
Sample ID: Standard 10
µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0290	0.0300	0.0811	0.0516	0.0936	02:15:30	Yes



2		0.0306	0.0315	0.0804	0.0539	0.0931	02:18:21 Yes
Mean:		0.0298					
SD :		0.0011					
%RSD:		3.62					

[As] Standard number 2 applied. [10.0]
Correlation Coefficient: 0.99989 Slope: 0.00298
Intercept : 0.00013

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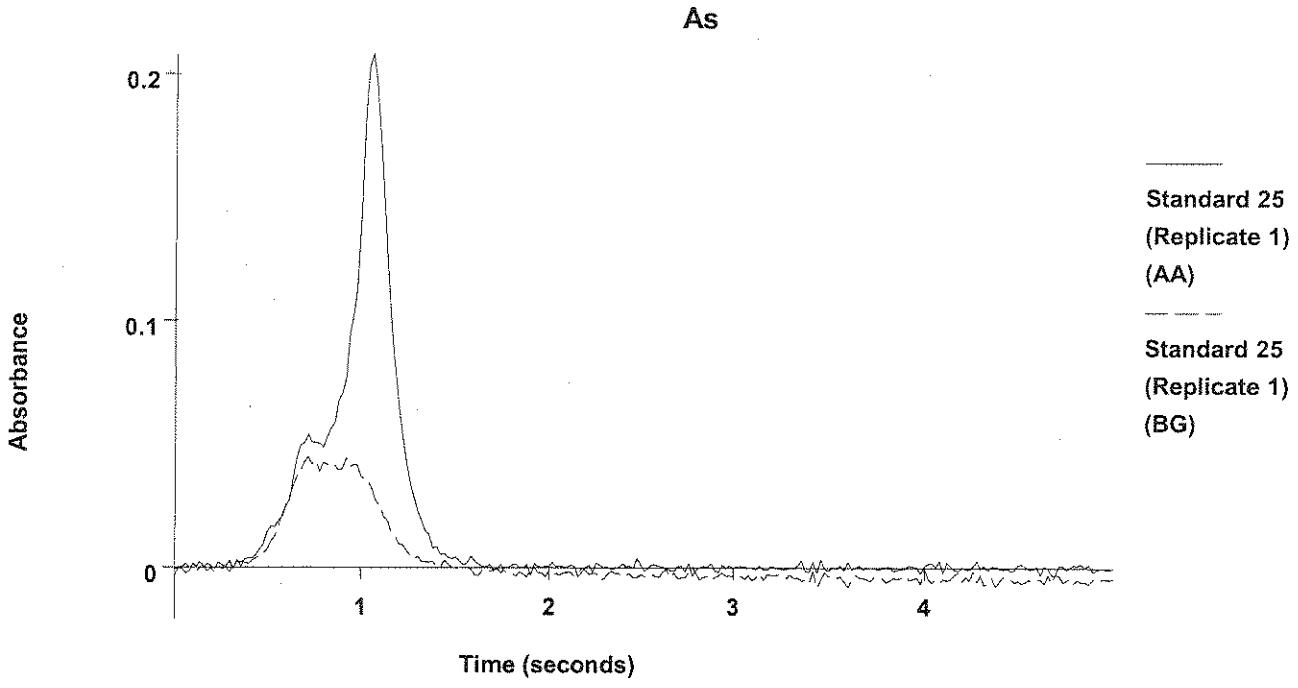
Element: As Seq. No.: 4 AS Loc.: 126 Date: 06/08/2006
Sample ID: Standard 25
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0639	0.0649	0.2080	0.0115	0.0447	02:21:40	Yes



2		0.0791	0.0801	0.2170	0.0539	0.0841	02:24:33 Yes
Mean:		0.0715					
SD :		0.0108					
%RSD:		15.09					

[As] Standard number 3 applied. [25.0]
Correlation Coefficient: 0.99980 Slope: 0.00285
Intercept : 0.00068

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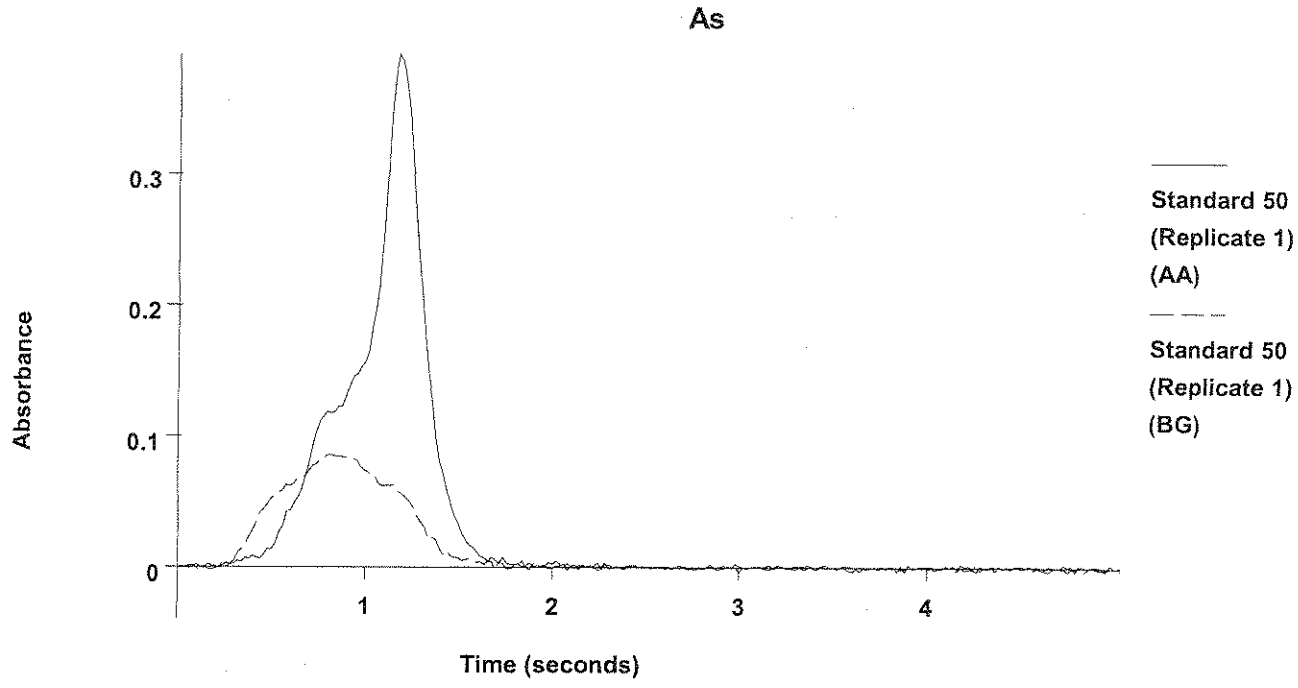
Element: As Seq. No.: 5 AS Loc.: 129 Date: 06/08/2006
Sample ID: Standard 50
µL dispensed: 10 from 148, 5 from 147, 15 from 129

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.1558	0.1568	0.3918	0.0642	0.0858	02:27:50	Yes



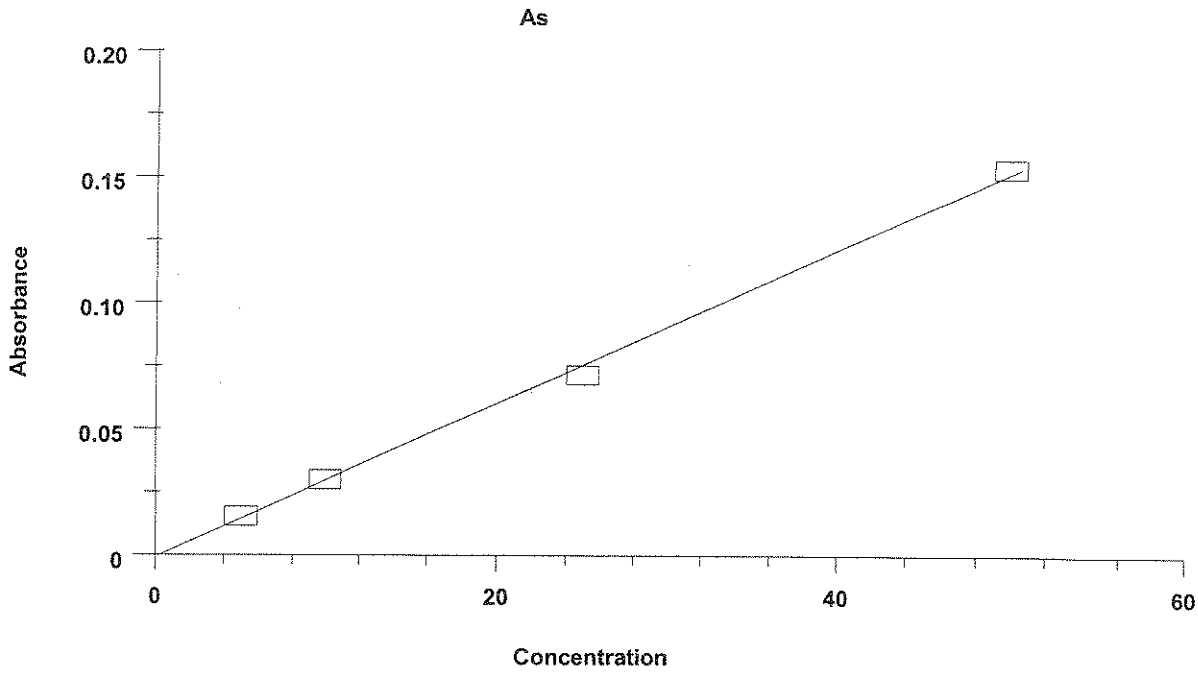
2	0.1509	0.1519	0.4073	0.0580	0.0778	02:30:41 Yes
Mean:	0.1533					
SD :	0.0034					
%RSD:	2.23					

[As] Standard number 4 applied. [50.0]
Correlation Coefficient: 0.99935 Slope: 0.00305
Intercept : -0.00091

Calibration data for As

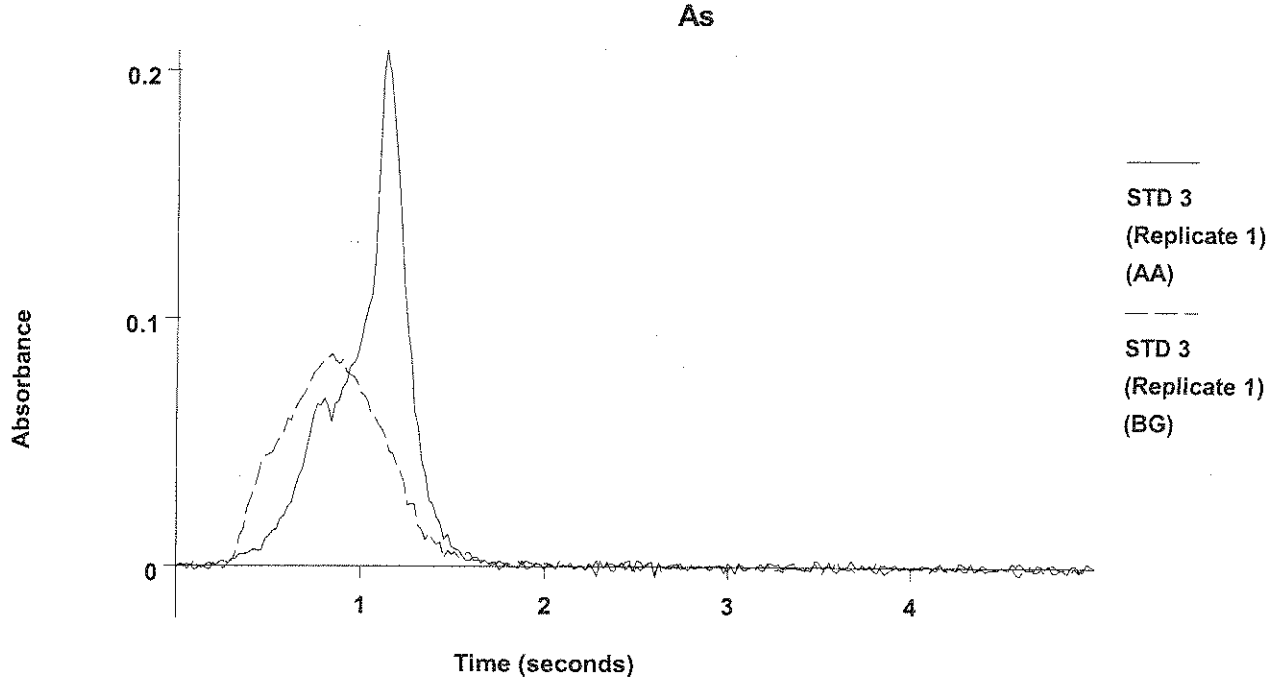
Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0010	-	----	----	----
Standard 5	0.0153	5.0	5.3	0.00	1.87
Standard 10	0.0298	10.0	10.1	0.00	3.62
Standard 25	0.0715	25.0	23.7	0.01	15.09
Standard 50	0.1533	50.0	50.6	0.00	2.23

Correlation Coefficient: 0.99935 Slope: 0.00305 Intercept: -0.0009



Element: As Seq. No.: 6 AS Loc.: 126 Date: 06/08/2006
Sample ID: STD 3
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.5	24.5	0.0738	0.0748	0.2077	0.0574	0.0857	02:33:39	Yes



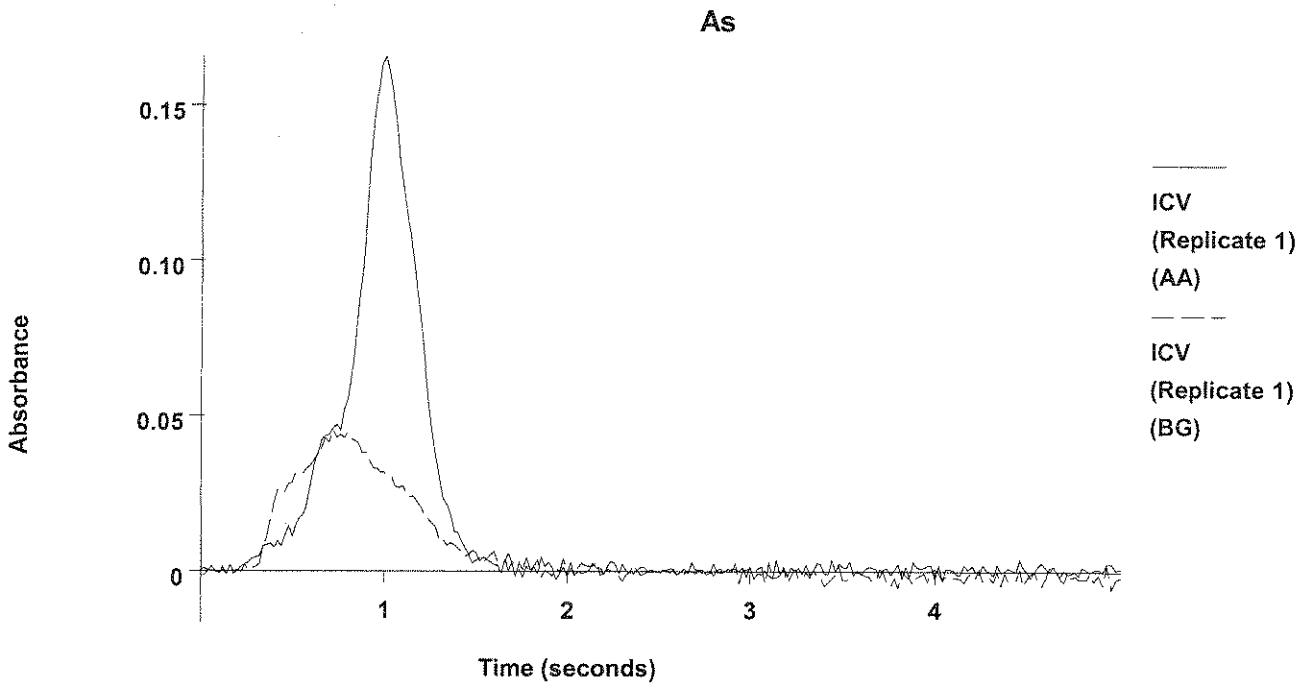
2	25.5	25.5	0.0767	0.0777	0.2094	0.0642	0.0889	02:36:32	Yes

Mean:	25.0	25.0	0.0753
SD :	0.66	0.66	0.0020
%RSD:	2.65	2.65	2.68

QC value within specified limits.

Element: As Seq. No.: 7 AS Loc.: 134 Date: 06/08/2006
Sample ID: ICV
µL dispensed: 10 from 148, 5 from 147, 15 from 134

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.1	23.1	0.0695	0.0705	0.1655	0.0289	0.0453	02:39:22	Yes

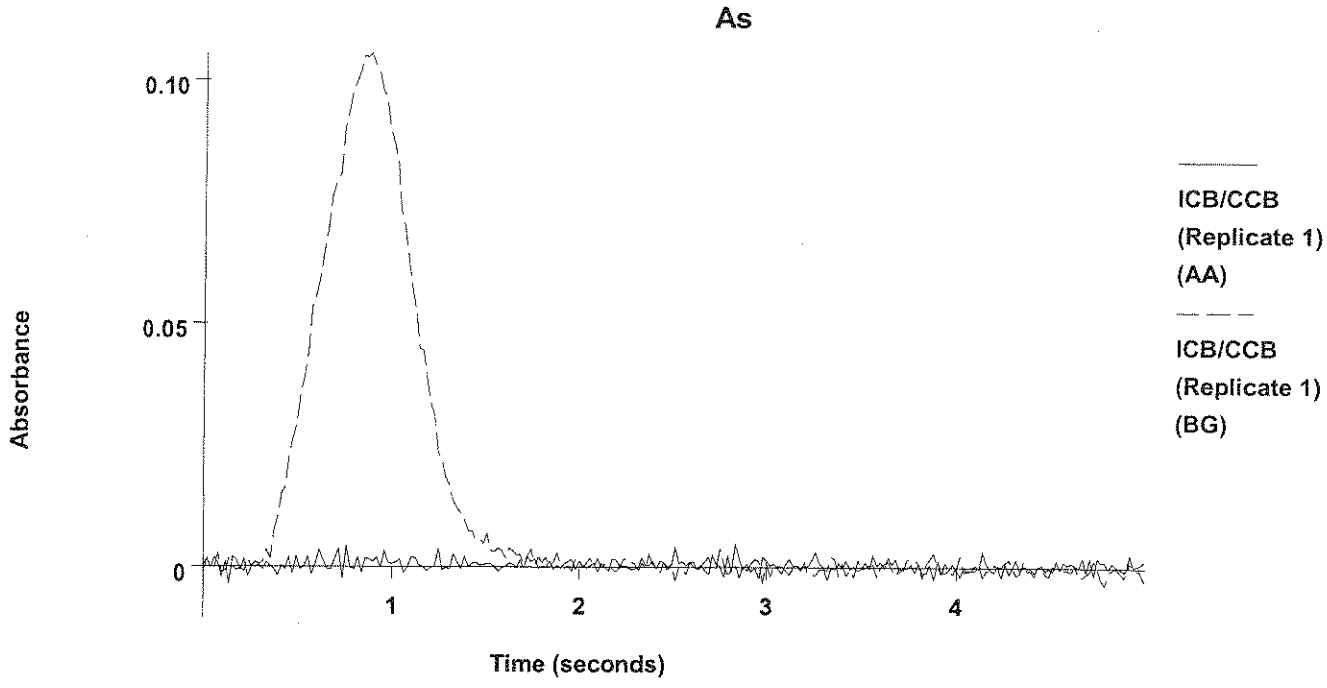


2	25.4	25.4	0.0766	0.0776	0.2091	0.0587	0.0852	02:42:11	Yes
Mean:	24.3	24.3	0.0730						
SD :	1.66	1.66	0.0051						
%RSD:	6.85	6.85	6.94						

QC value within specified limits.

Element: As Seq. No.: 8 AS Loc.: 148 Date: 06/08/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0010	0.0020	0.0048	0.0592	0.1055	02:45:02	Yes



2	0.5	0.5	0.0007	0.0017	0.0037	0.0532	0.1026	02:47:52 Yes
Mean:	0.6	0.6	0.0009					
SD :	0.08	0.08	0.0002					
%RSD:	13.0	13.0	26.92					

QC value within specified limits.

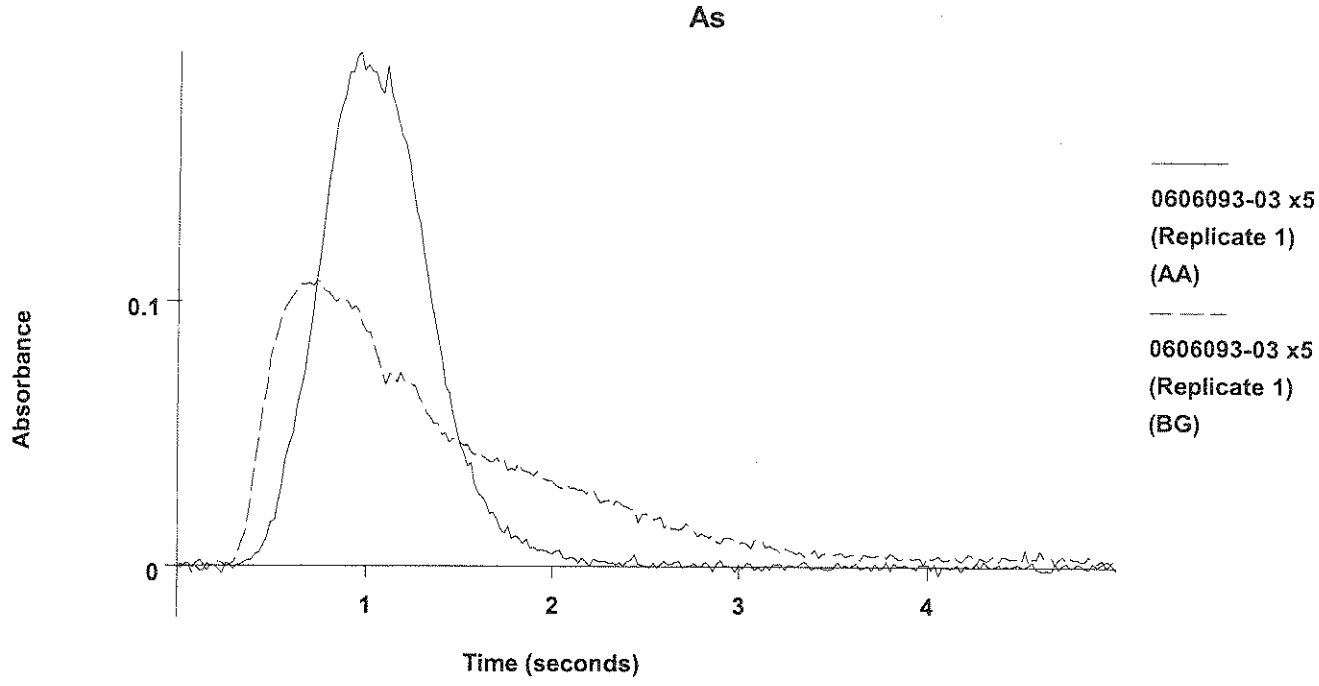
==========

Element: As Seq. No.: 9 AS Loc.: 1 Date: 06/08/2006

Sample ID: 0606093-03 x5

µL dispensed: 10 from 148, 5 from 147, 15 from 1

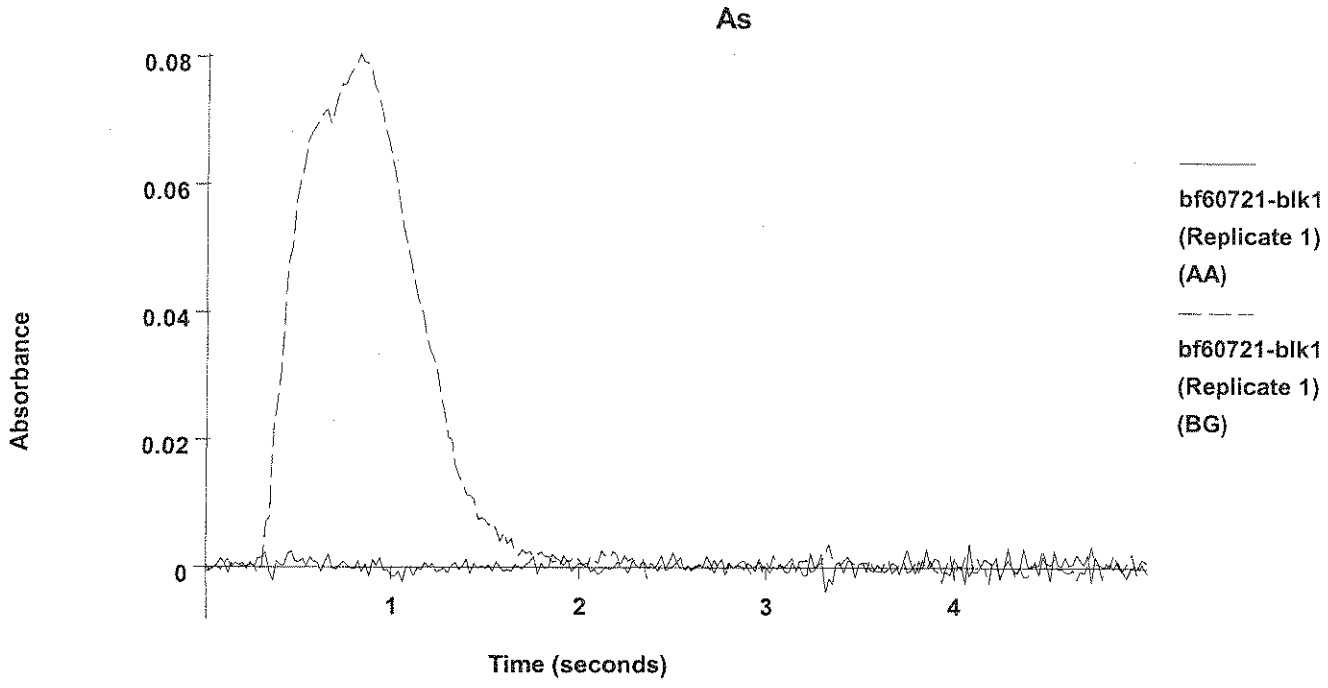
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	43.6	43.6	0.1320	0.1330	0.1938	0.1359	0.1077	02:50:41	Yes



2	40.6	40.6	0.1230	0.1240	0.1980	0.1246	0.1045	02:53:31 Yes
Mean:	42.1	42.1	0.1275					
SD :	2.10	2.10	0.0064					
%RSD:	4.99	4.99	5.02					

Element: As Seq. No.: 10 AS Loc.: 2 Date: 06/08/2006
Sample ID: bf60721-blk1
µL dispensed: 10 from 148, 5 from 147, 15 from 2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0005	0.0015	0.0038	0.0601	0.0805	02:56:21	Yes



2	0.3	0.3	0.0000	0.0010	0.0034	0.0584	0.0831	02:59:12 Yes
Mean:	0.4	0.4	0.0003					
SD :	0.10	0.10	0.0003					
%RSD:	26.7	26.7	115.62					

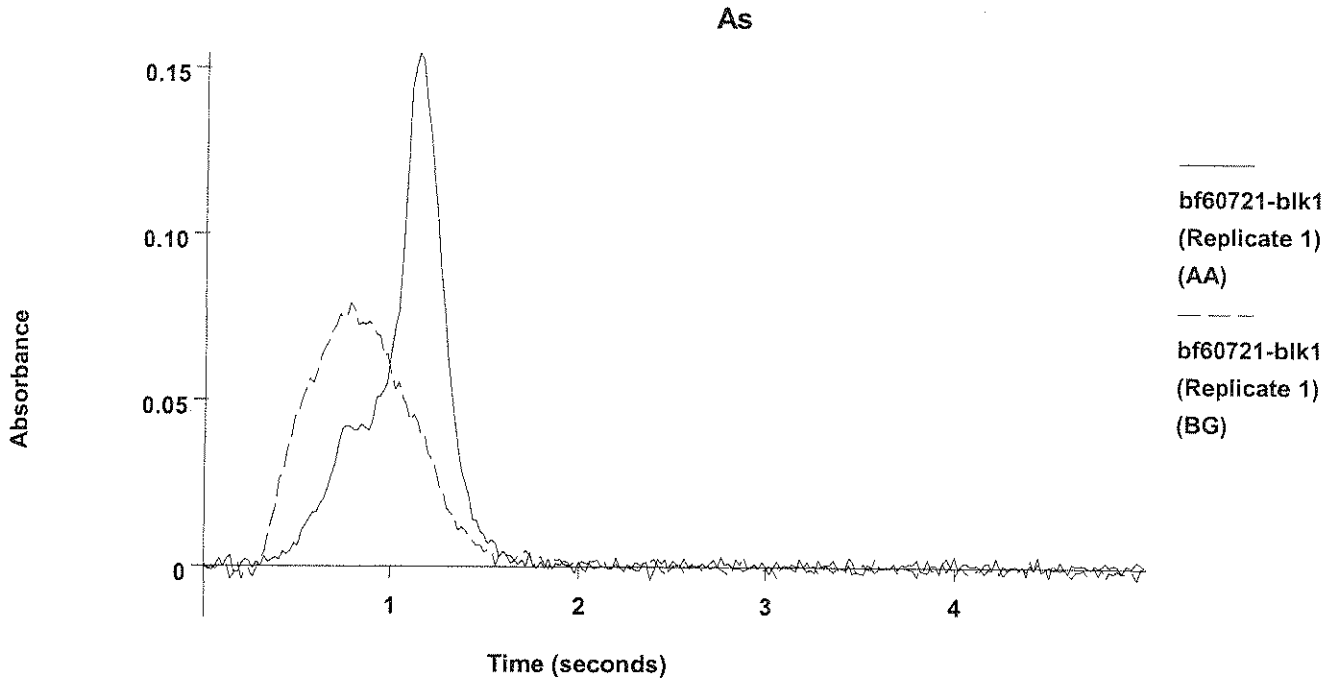
==========

Element: As Seq. No.: 11 AS Loc.: 2 Date: 06/08/2006

Sample ID: bf60721-blk1

µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.4	19.4	0.0584	0.0594	0.1544	0.0526	0.0792	03:02:11	Yes



2	18.7	18.7	0.0560	0.0570	0.1564	0.0460	0.0686	03:05:10	Yes
Mean:	19.0	19.0	0.0572						
SD :	0.55	0.55	0.0017						
%RSD:	2.91	2.91	2.96						

Recovery for As = 95.2 % within 85 % to 115 %

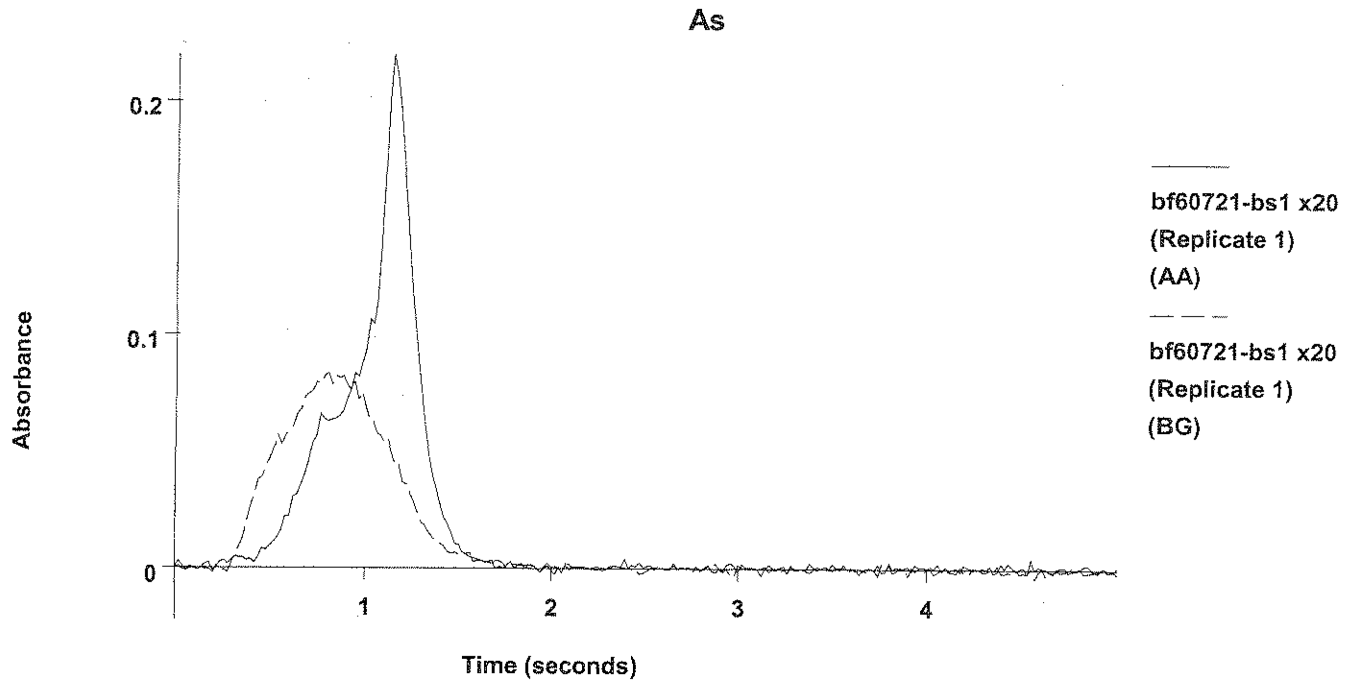
==========

Element: As Seq. No.: 12 AS Loc.: 3 Date: 06/08/2006

Sample ID: bf60721-bs1 x20

µL dispensed: 10 from 148, 5 from 147, 15 from 3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.9	25.9	0.0781	0.0791	0.2198	0.0571	0.0834	03:08:00	Yes



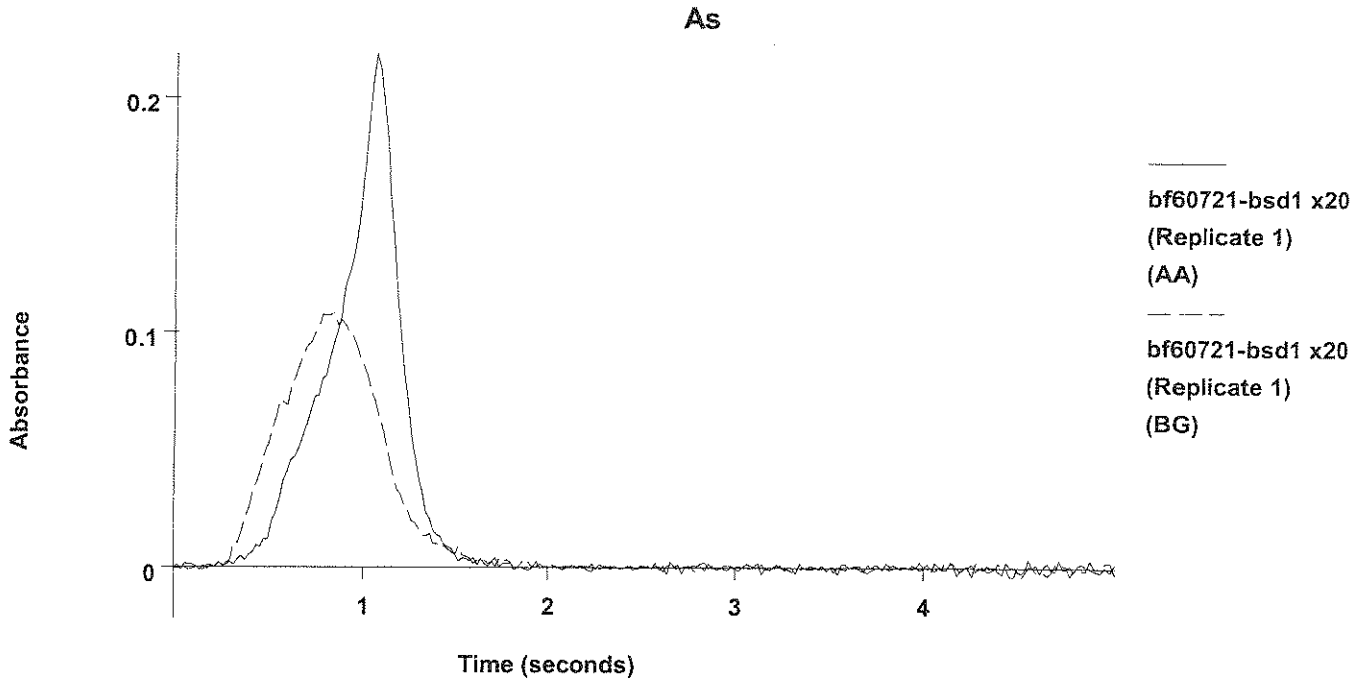
2	26.2	26.2	0.0791	0.0801	0.2173	0.0646	0.0878	03:10:51	Yes
Mean:	26.1	26.1	0.0786						
SD :	0.22	0.22	0.0007						
%RSD:	0.86	0.86	0.87						

104%

==

Element: As   Seq. No.: 13   AS Loc.: 4   Date: 06/08/2006
Sample ID: bf60721-bsd1 x20
μL dispensed: 10 from 148, 5 from 147, 15 from 4

Repl #	SampleConc μg/L	StndConc μg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	28.3	28.3	0.0853	0.0863	0.2187	0.0668	0.1081	03:13:42	Yes

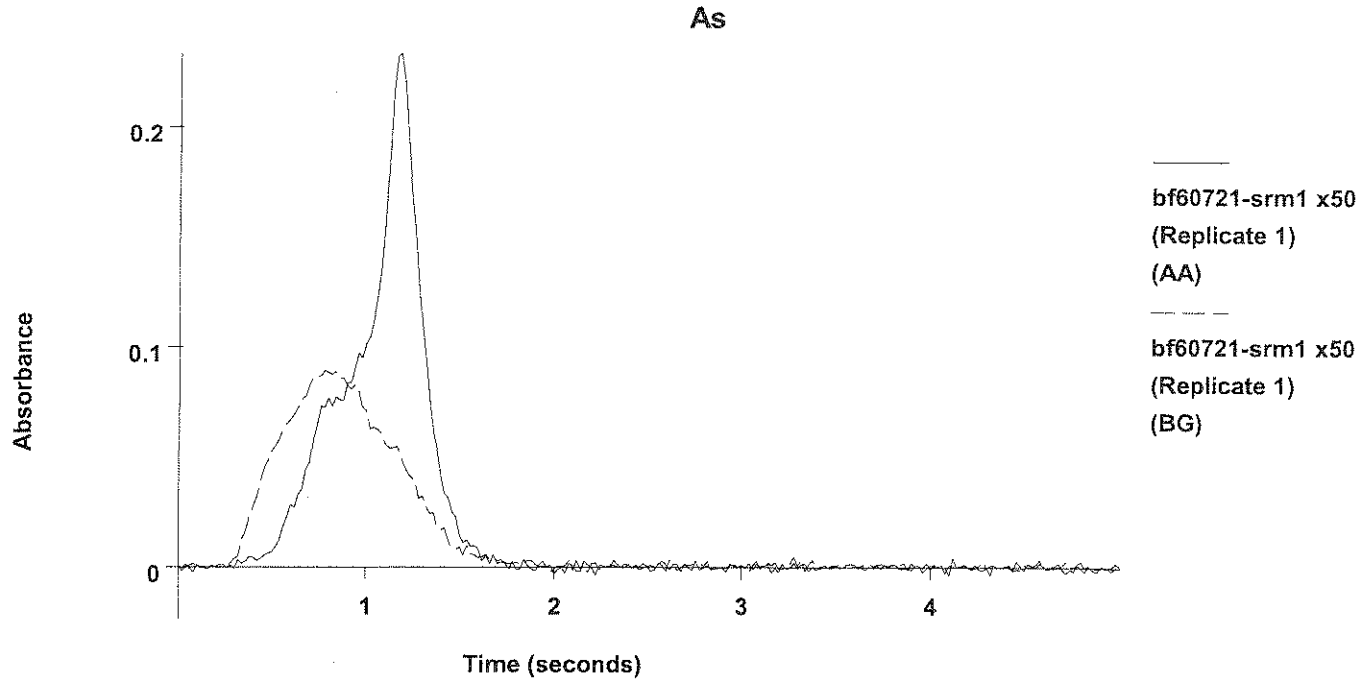


2	25.3	25.3	0.0764	0.0774	0.2048	0.0657	0.0884	03:16:32 Yes
Mean:	26.8	26.8	0.0808					
SD :	2.07	2.07	0.0063					
%RSD:	7.71	7.71	7.80					

107.1

Element: As Seq. No.: 14 AS Loc.: 5 Date: 06/08/2006
Sample ID: bf60721-srm1 x50
µL dispensed: 10 from 148, 5 from 147, 15 from 5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	29.8	29.8	0.0899	0.0909	0.2333	0.0666	0.0893	03:19:22	Yes

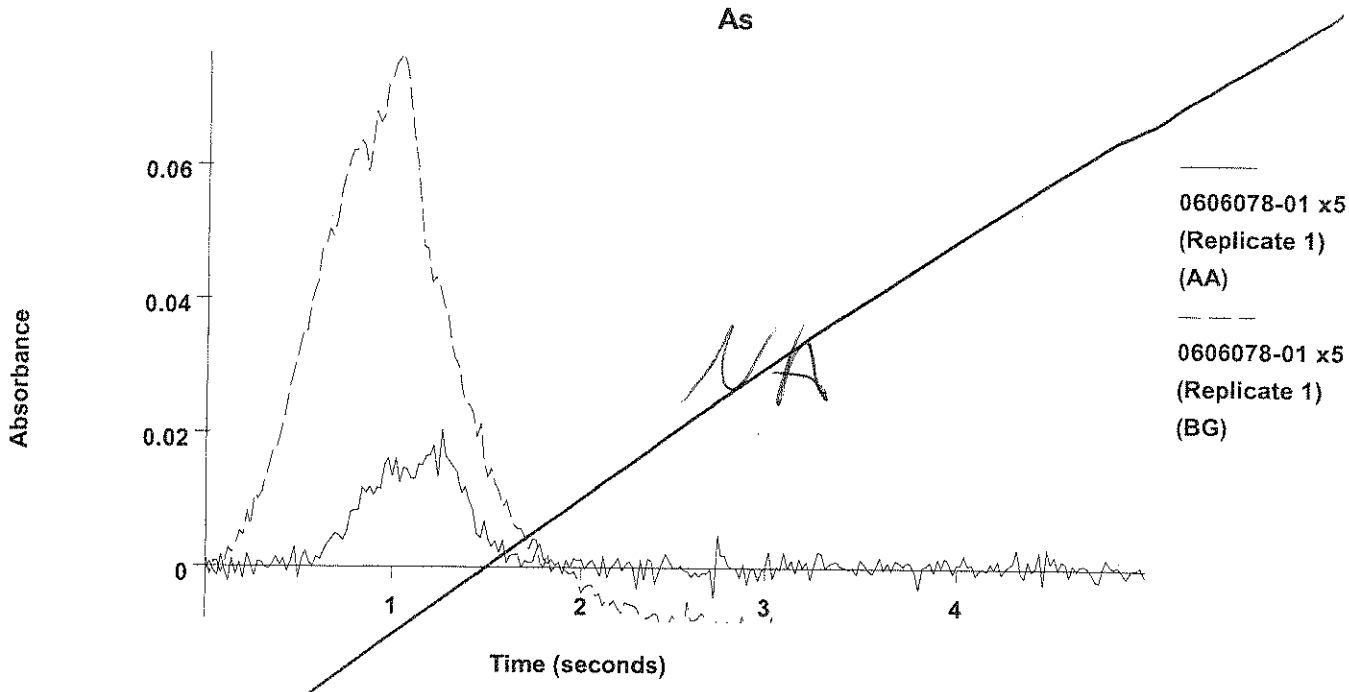


2	29.3	29.3	0.0885	0.0895	0.2419	0.0653	0.0859	03:22:13 Yes
Mean:	29.6	29.6	0.0892					
SD :	0.33	0.33	0.0010					
%RSD:	1.13	1.13	1.14					

$\frac{29.6(50)/100}{1} / 1000 = 1.48$

Element: As Seq. No.: 15 AS Loc.: 6 Date: 06/08/2006
Sample ID: 0606078-01 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 6

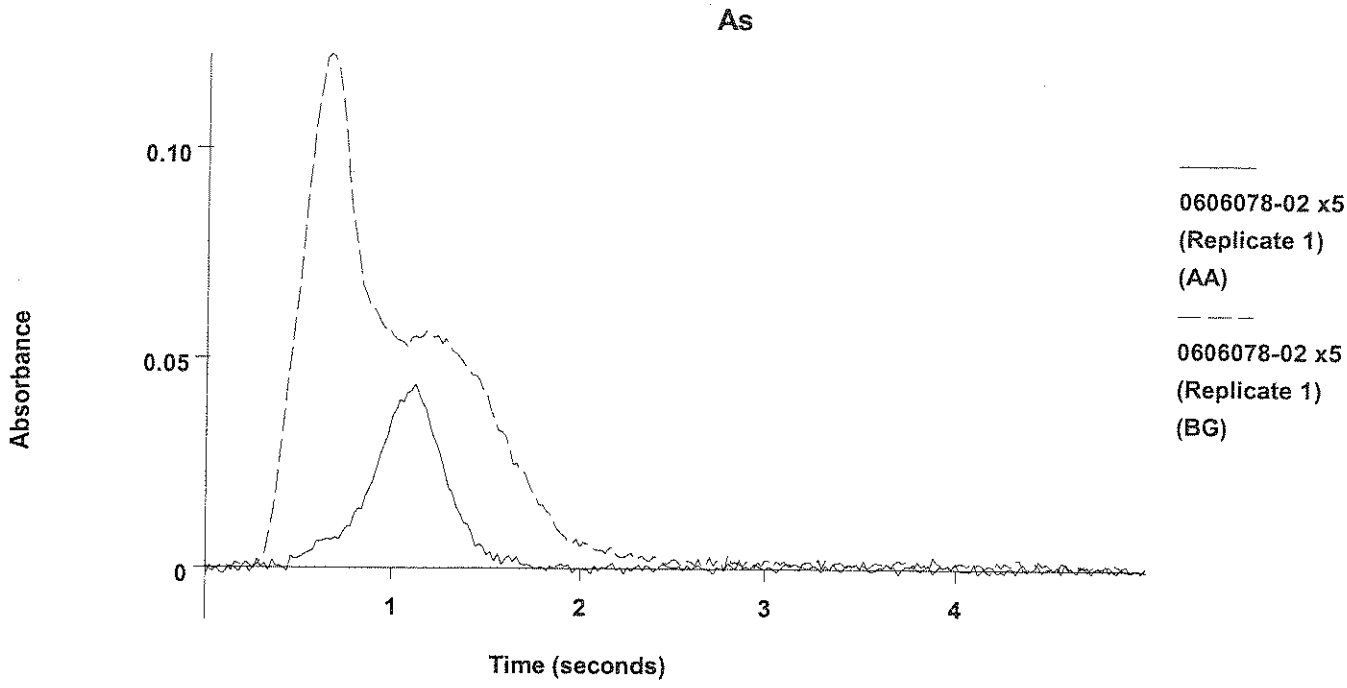
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.7	3.7	0.0104	0.0114	0.0205	0.0241	0.0767	03:25:04	Yes



2	12.3	12.3	0.0366	0.0376	0.0621	0.1148	0.1202	03:27:56	Yes
Mean:	8.0	8.0	0.0235						
SD :	6.09	6.09	0.0186						
%RSD:	76.1	76.1	79.05						

Element: As Seq. No.: 16 AS Loc.: 7 Date: 06/08/2006
Sample ID: 0606078-02 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 7

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	6.8	6.8	0.0198	0.0208	0.0437	0.0897	0.1224	03:30:47	Yes

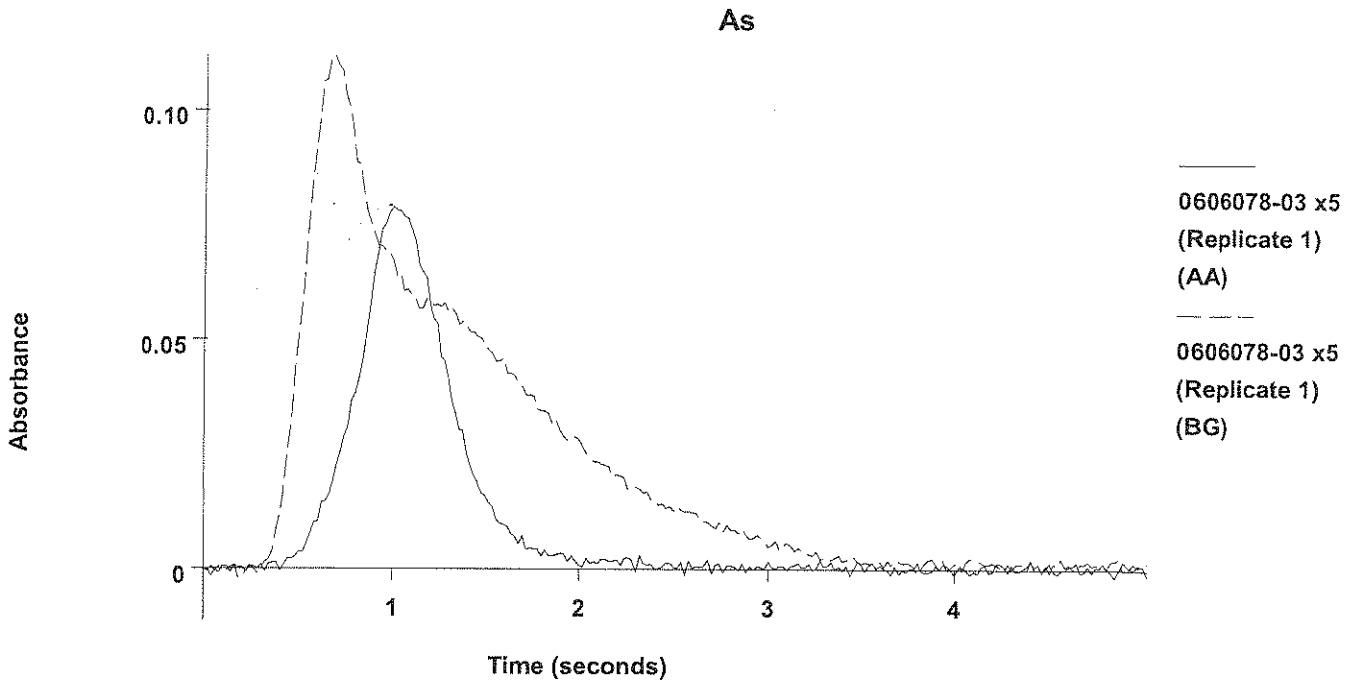


2	6.6	6.6	0.0191	0.0201	0.0406	0.0926	0.1216	03:33:39 Yes
Mean:	6.7	6.7	0.0194					
SD :	0.17	0.17	0.0005					
%RSD:	2.54	2.54	2.66					

==========

Element: As Seq. No.: 17 AS Loc.: 8 Date: 06/08/2006
Sample ID: 0606078-03 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 8

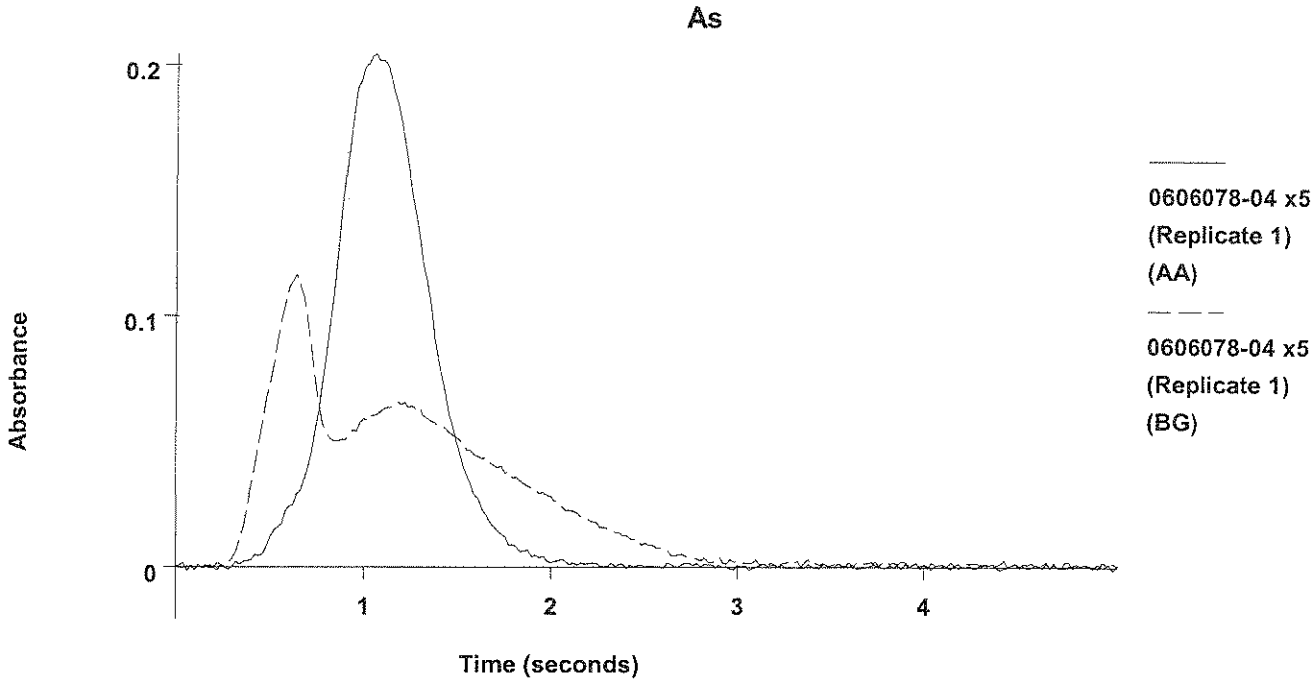
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	15.4	15.4	0.0461	0.0471	0.0789	0.1121	0.1120	03:36:30	Yes



2	15.0	15.0	0.0449	0.0459	0.0778	0.1073	0.1057	03:39:21 Yes
Mean:	15.2	15.2	0.0455					
SD :	0.29	0.29	0.0009					
%RSD:	1.91	1.91	1.95					

Element: As Seq. No.: 18 AS Loc.: 9 Date: 06/08/2006
Sample ID: 0606078-04 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 9

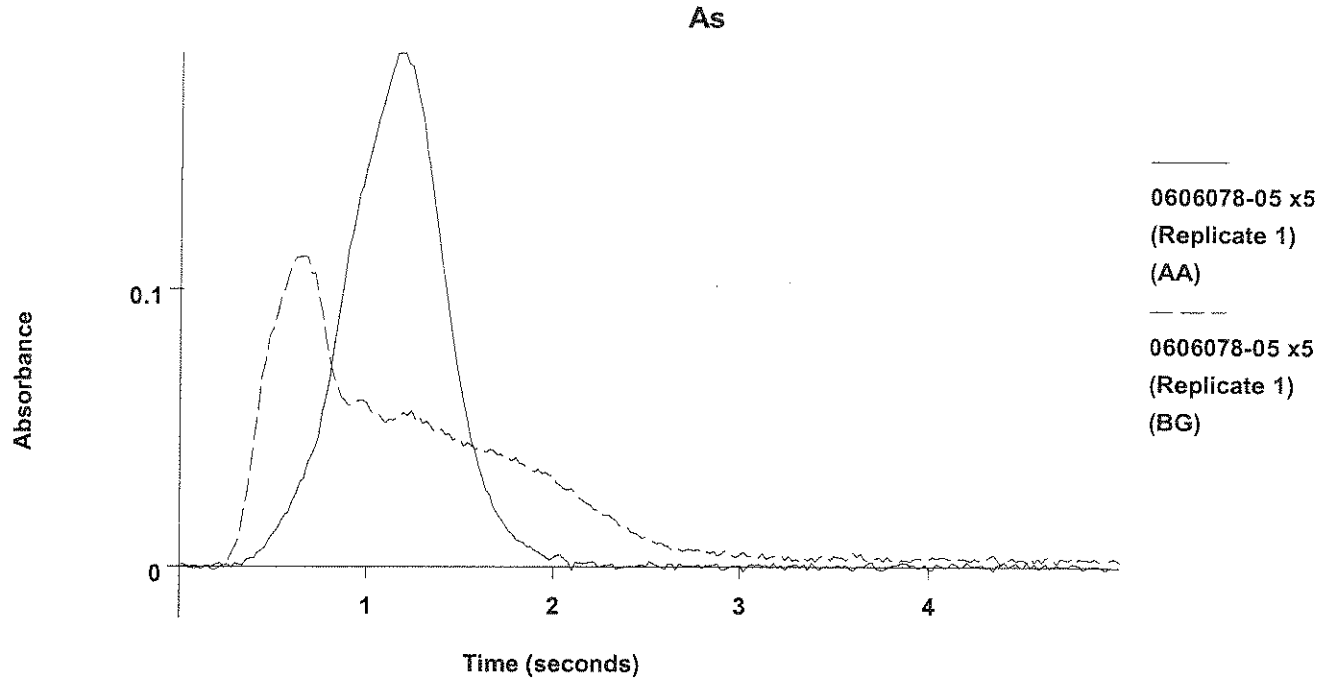
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	40.5	40.5	0.1225	0.1235	0.2044	0.1078	0.1165	03:42:12	Yes



2	41.1	41.1	0.1243	0.1253	0.1975	0.1098	0.1145	03:45:04 Yes
Mean:	40.8	40.8	0.1234					
SD :	0.42	0.42	0.0013					
%RSD:	1.02	1.02	1.03					

Element: As Seq. No.: 19 AS Loc.: 10 Date: 06/08/2006
Sample ID: 0606078-05 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 10

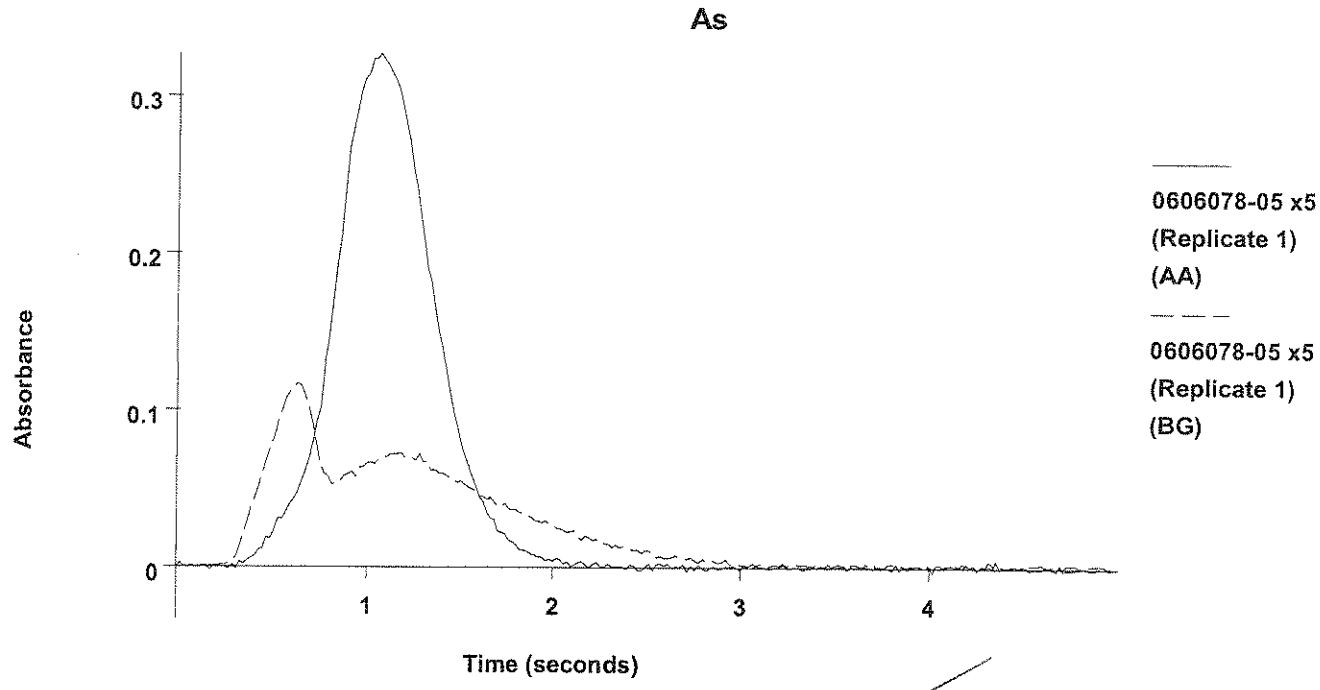
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	38.8	38.8	0.1173	0.1182	0.1851	0.1169	0.1117	03:47:55	Yes



2	39.2	39.2	0.1188	0.1198	0.1960	0.1100	0.1188	03:50:47 Yes
Mean:	39.0	39.0	0.1180					
SD :	0.35	0.35	0.0011					
%RSD:	0.89	0.89	0.90					

Element: As Seq. No.: 20 AS Loc.: 10 Date: 06/08/2006
Sample ID: 0606078-05 x5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	65.5	65.5	0.1988	0.1998	0.3269	0.1138	0.1169	03:53:46	Yes



Sample absorbance is greater than that of the highest standard.

2	63.9	63.9	0.1939	0.1949	0.3174	0.1088	0.1184	03:56:46 Yes

Sample absorbance is greater than that of the highest standard.

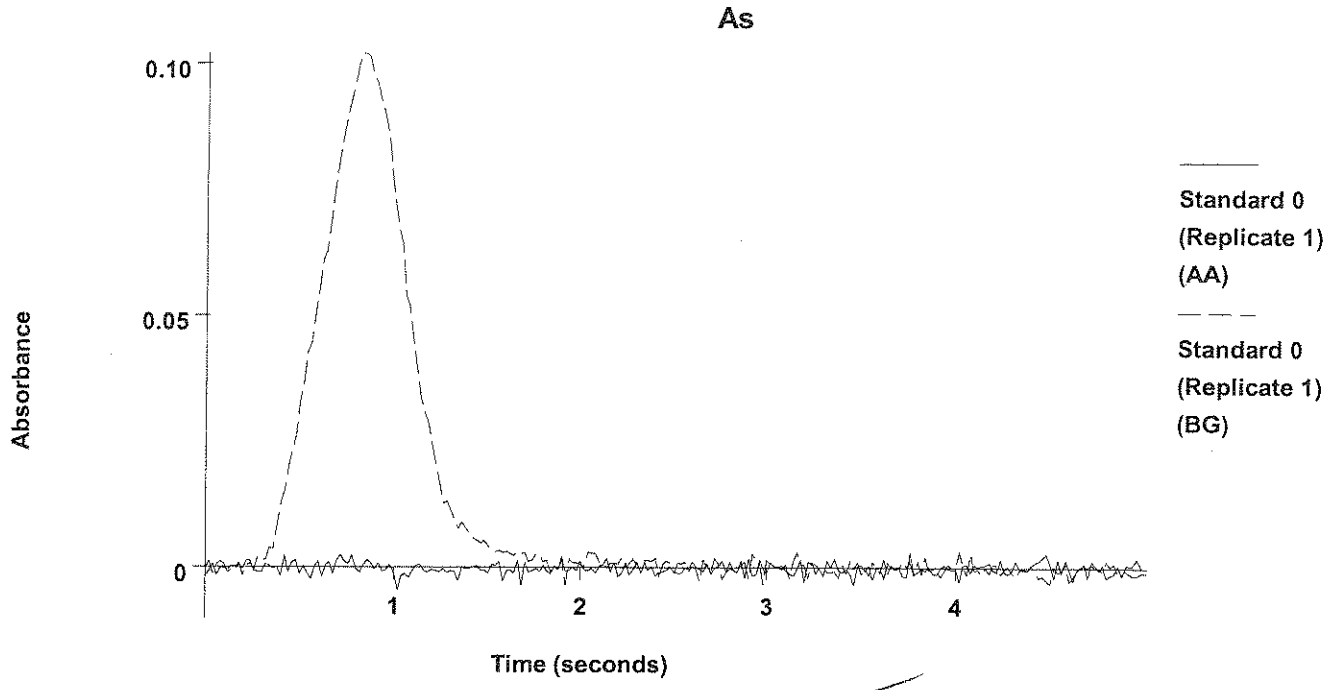
Mean:	64.7	64.7	0.1964
SD :	1.13	1.13	0.0034
%RSD:	1.74	1.74	1.75

Sample absorbance is greater than that of the highest standard.
Result for As is greater than 100 percent of calibration range.

==========

Element: As Seq. No.: 21 AS Loc.: 148 Date: 06/08/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			-0.0011	-0.0011	0.0031	0.0547	0.1020	03:59:36	Yes

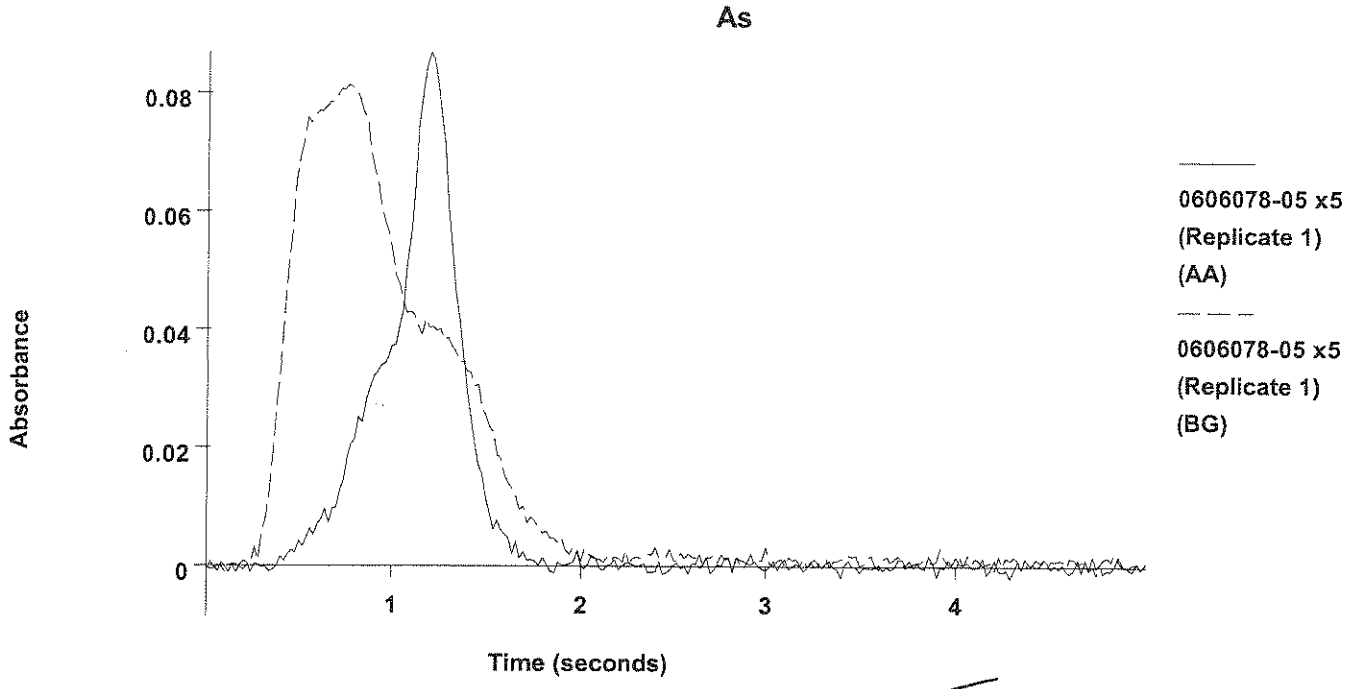


2	0.0017	0.0017	0.0049	0.0528	0.1015	04:02:26	Yes
Mean:	0.0003						
SD :	0.0020						
%RSD:	599.26						

Auto-zero performed.

Element: As Seq. No.: 22 AS Loc.: 10 Date: 06/08/2006
Sample ID: 0606078-05 x5
µL dispensed: 20 from 148, 5 from 147, 5 from 10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	36.9	12.3	0.0365	0.0370	0.0868	0.0711	0.0814	04:05:17	Yes

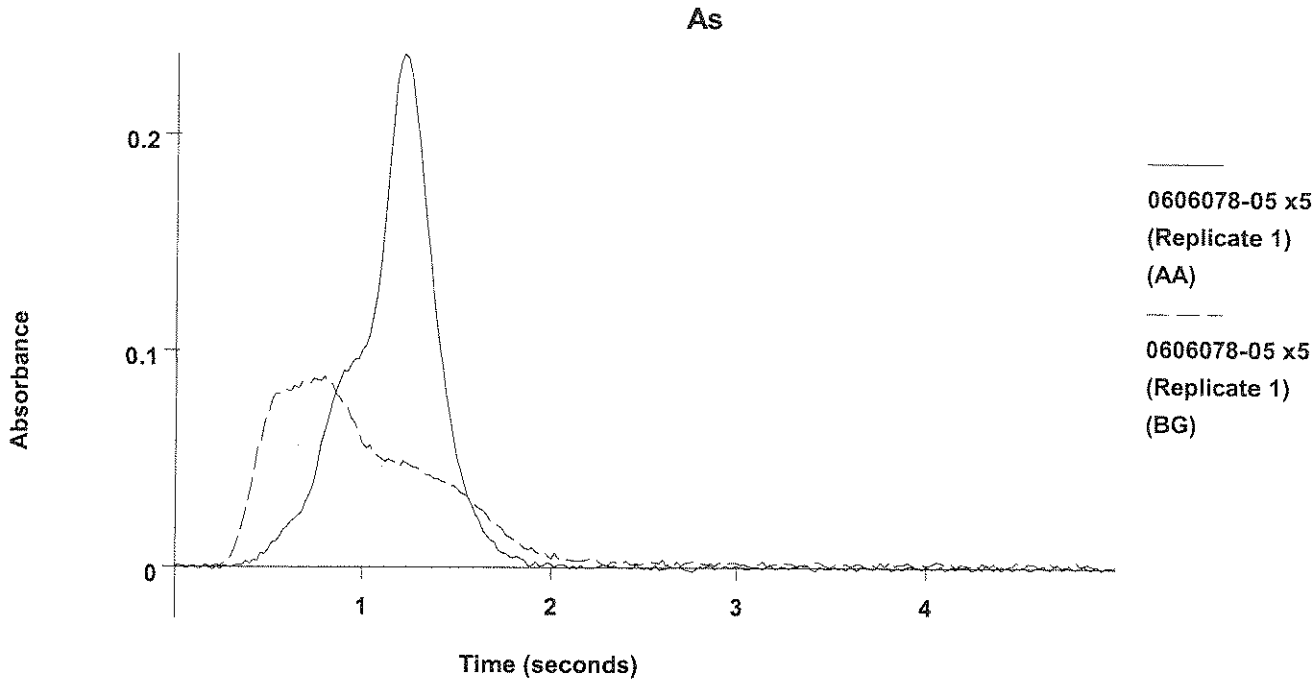


2	38.8	12.9	0.0385	0.0398	0.0899	0.0763	0.0855	04:08:10 Yes
Mean:	37.8	12.6	0.0376					
SD :	1.28	0.43	0.0013					
%RSD:	3.38	3.38	3.46					

15X

Element: As Seq. No.: 23 AS Loc.: 10 Date: 06/08/2006
Sample ID: 0606078-05 x5
µL dispensed: 14 from 148, 5 from 147, 6 from 131, 5 from 10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	107	35.7	0.1079	0.1089	0.2372	0.0849	0.0879	04:11:09	Yes

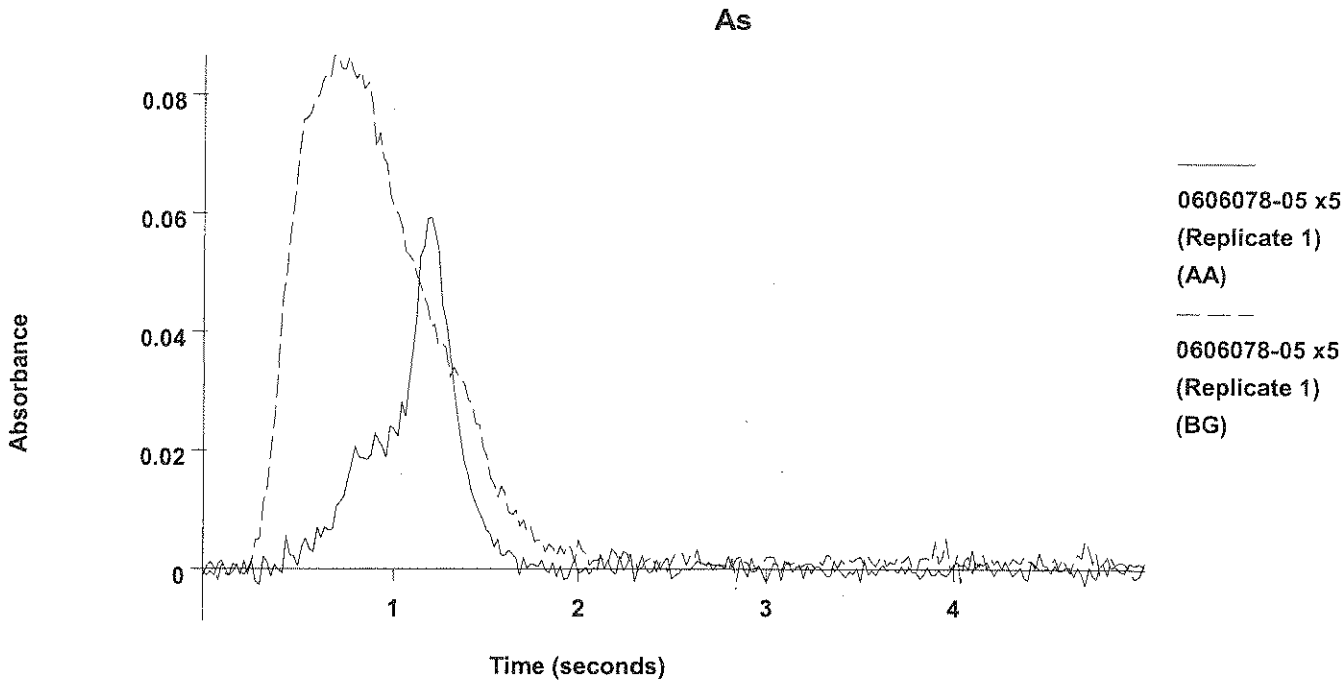


2	108	36.1	0.1093	0.1103	0.2428	0.0763	0.0854	04:14:09 Yes
Mean:	108	35.9	0.1086					
SD :	0.96	0.32	0.0010					
%RSD:	0.89	0.89	0.90					

Recovery for As = 116.4 %, greater than upper limit 115 %

Element: As Seq. No.: 24 AS Loc.: 10 Date: 06/08/2006
Sample ID: 0606078-05 x5
µL dispensed: 22 from 148, 5 from 147, 3 from 10

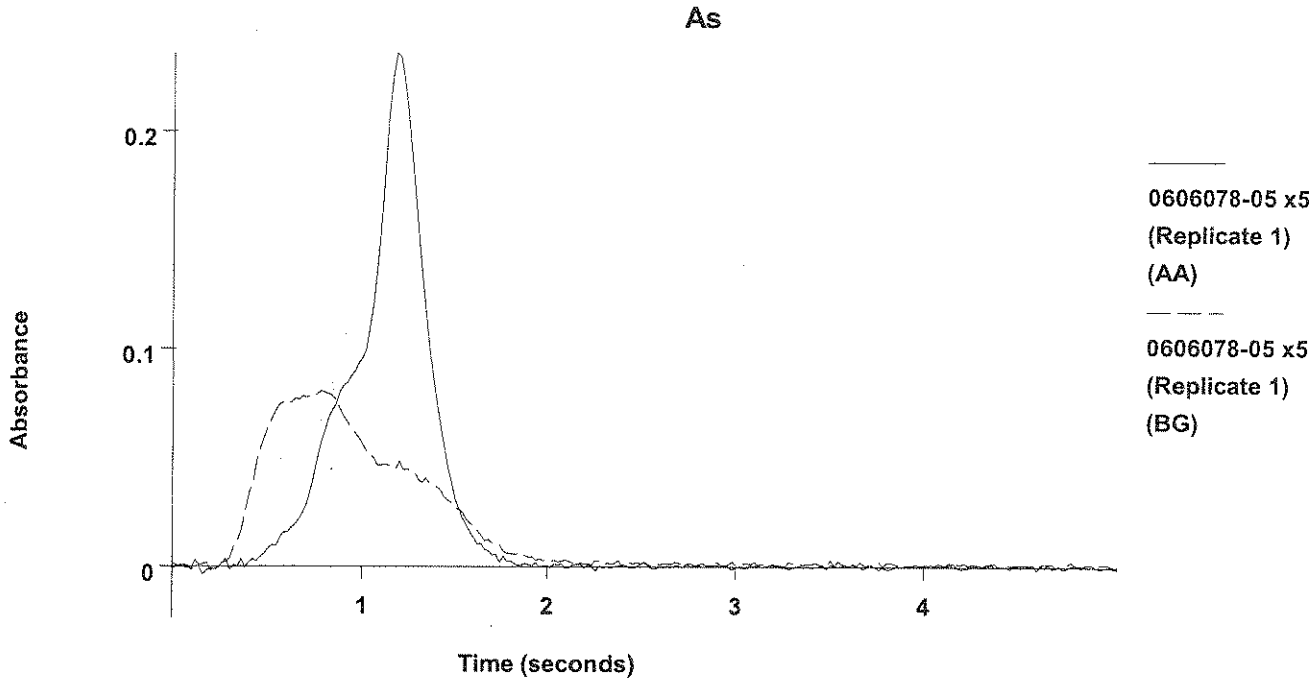
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	39.4	7.9	0.0231	0.0241	0.0593	0.0736	0.0866	04:17:01	Yes



2	40.4	8.1	0.0237	0.0247	0.0601	0.0660	0.0839	04:19:54 Yes
Mean:	39.9	8.0	0.0234					
SD :	0.75	0.15	0.0005					
%RSD:	1.89	1.89	1.96					

Element: As Seq. No.: 25 AS Loc.: 10 Date: 06/08/2006
Sample ID: 0606078-05 x5
µL dispensed: 16 from 148, 5 from 147, 6 from 131, 3 from 10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	161	32.2	0.0973	0.0983	0.2358	0.0734	0.0807	04:22:53	Yes

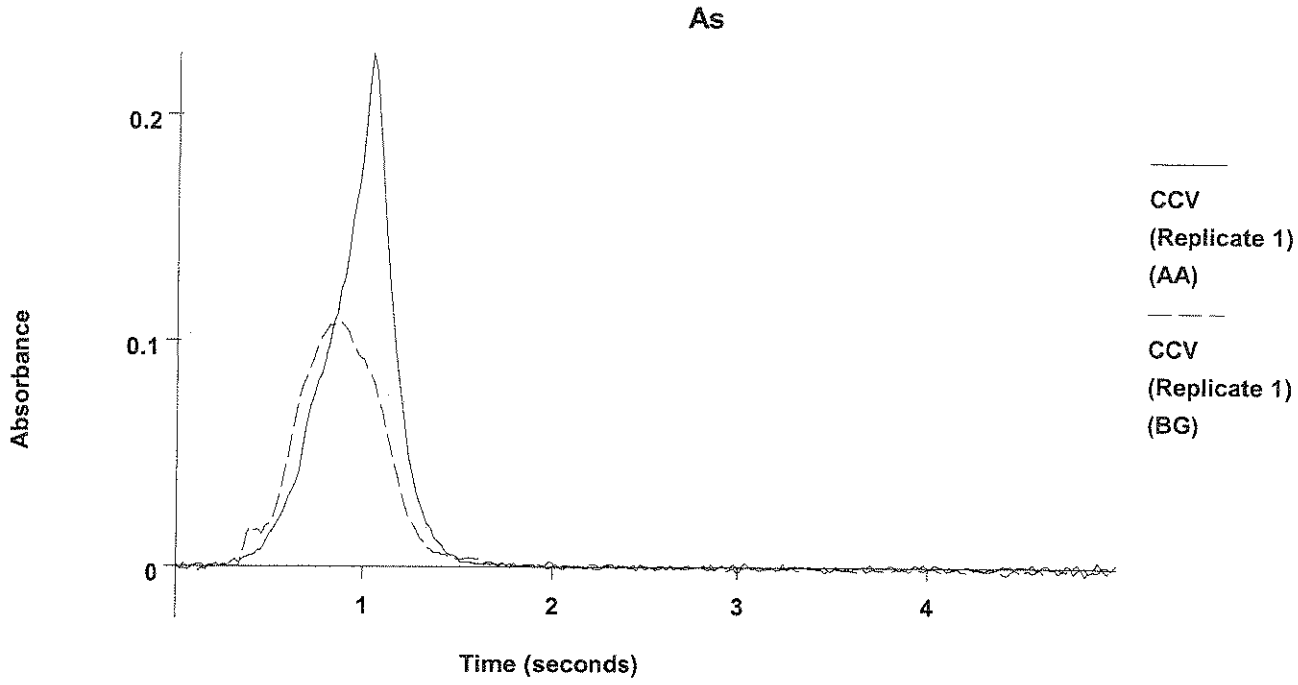


2	157	31.5	0.0951	0.0961	0.2323	0.0726	0.0933	04:25:53 Yes
Mean:	159	31.9	0.0962					
SD :	2.58	0.52	0.0016					
%RSD:	1.62	1.62	1.63					

Recovery for As = 119.4 %, greater than upper limit 115 %

Element: As Seq. No.: 26 AS Loc.: 126 Date: 06/08/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	27.2	27.2	0.0820	0.0823	0.2272	0.0578	0.1086	04:28:46	Yes



2	26.2	26.2	0.0790	0.0793	0.2119	0.0608	0.0824	04:31:40 Yes
Mean:	26.7	26.7	0.0805					
SD :	0.70	0.70	0.0021					
%RSD:	2.64	2.64	2.66					

QC value within specified limits.

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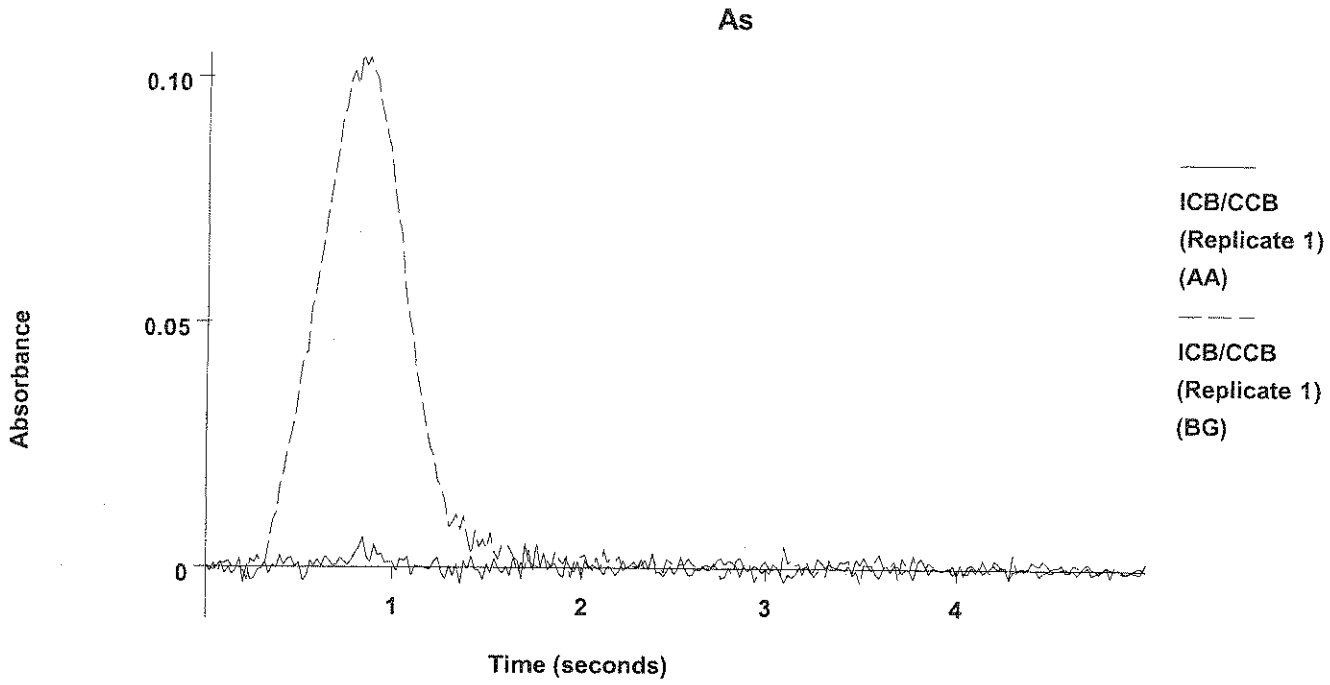
Element: As Seq. No.: 27 AS Loc.: 148 Date: 06/08/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.6	0.0009	0.0013	0.0062	0.0593	0.1048	04:34:31	Yes

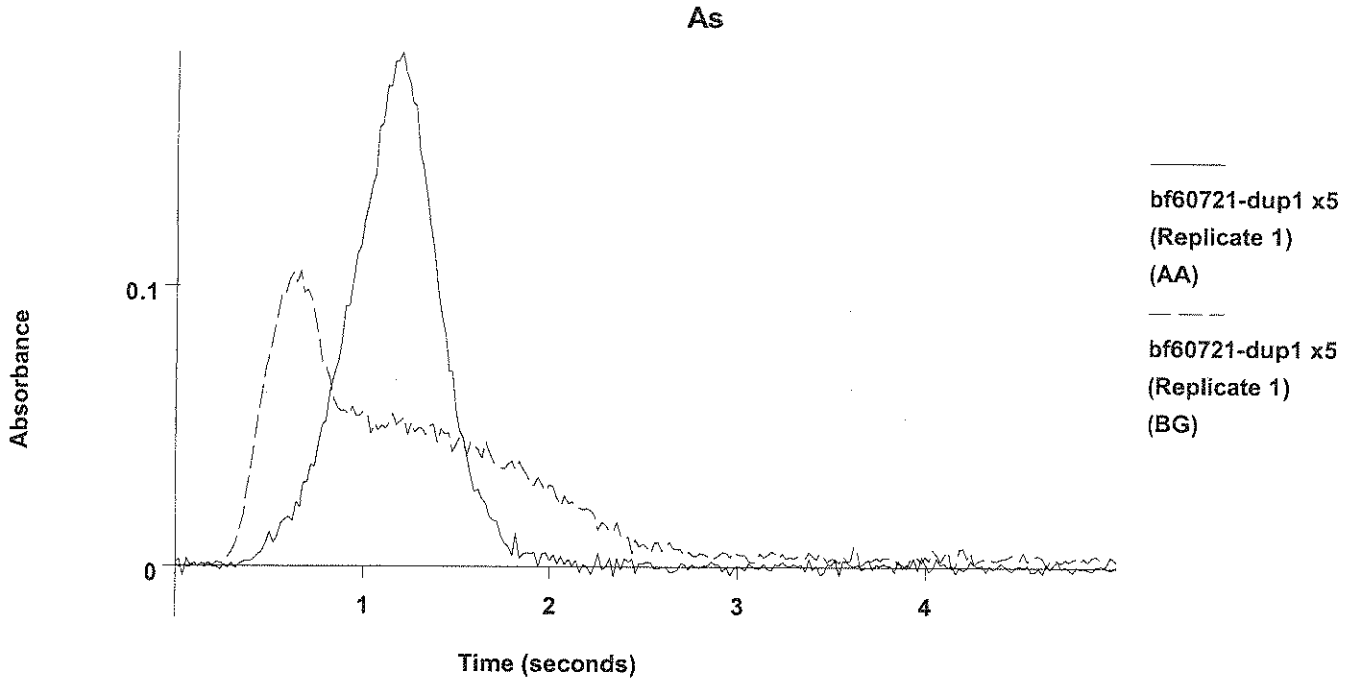


2	0.9	0.9	0.0018	0.0022	0.0050	0.0525	0.1012	04:37:21 Yes
Mean:	0.8	0.8	0.0014					
SD :	0.21	0.21	0.0006					
%RSD:	27.8	27.8	46.12					

QC value within specified limits.

Element: As Seq. No.: 28 AS Loc.: 11 Date: 06/08/2006
Sample ID: bf60721-dup1 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 11

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	34.2	34.2	0.1033	0.1043	0.1832	0.1074	0.1053	04:40:12	Yes

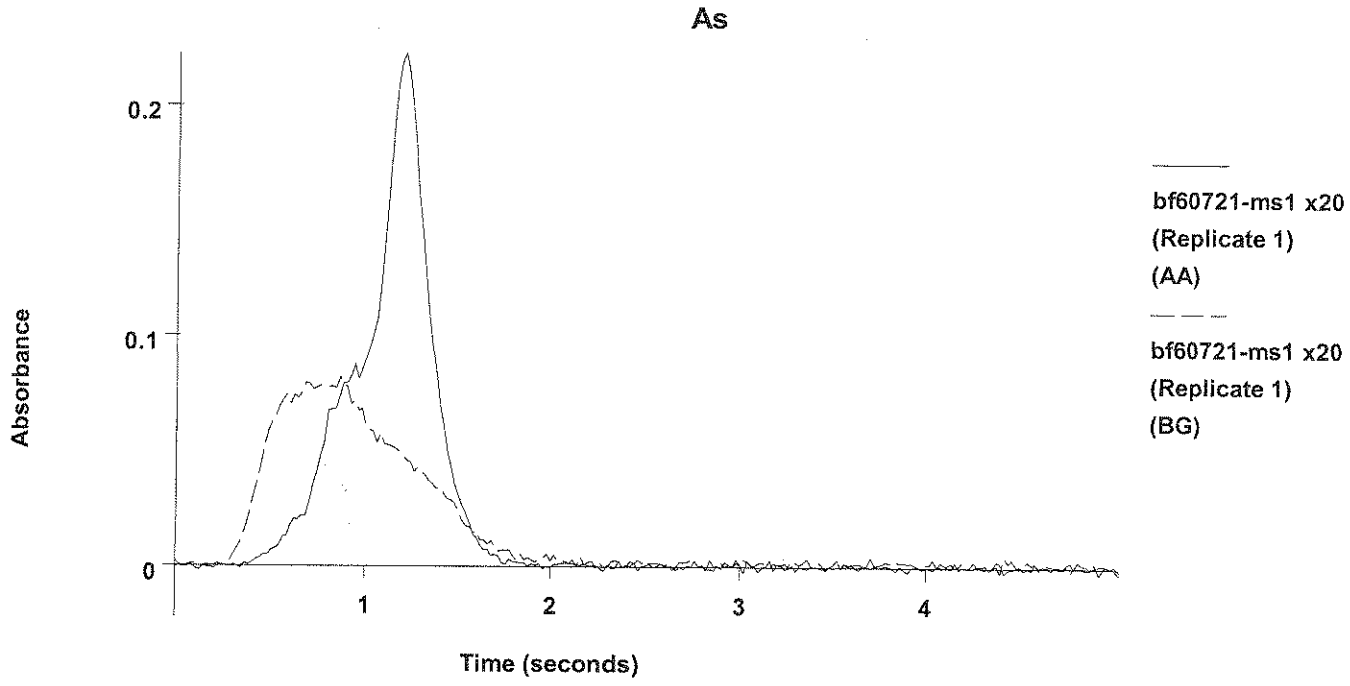


2	35.5	35.5	0.1073	0.1083	0.1845	0.1124	0.1060	04:43:04 Yes
Mean:	34.8	34.8	0.1053					
SD :	0.91	0.91	0.0028					
%RSD:	2.62	2.62	2.64					

$\frac{39.0 - 34.8}{36.9} = 115$

Element: As Seq. No.: 29 AS Loc.: 12 Date: 06/08/2006
Sample ID: bf60721-ms1 x20
µL dispensed: 10 from 148, 5 from 147, 15 from 12

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	30.3	30.3	0.0916	0.0926	0.2228	0.0729	0.0821	04:45:54	Yes

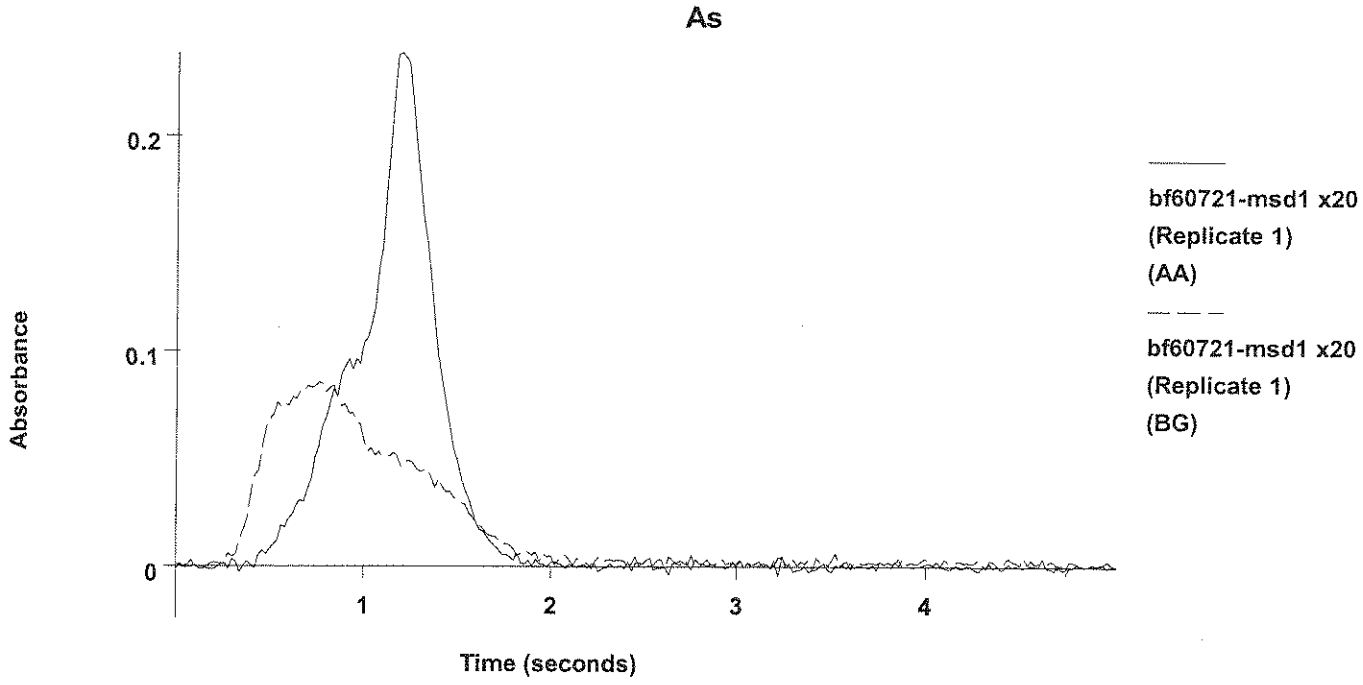


2	30.6	30.6	0.0925	0.0935	0.2233	0.0722	0.0807	04:48:45 Yes
Mean:	30.5	30.5	0.0920					
SD :	0.20	0.20	0.0006					
%RSD:	0.67	0.67	0.67					

$\frac{30.5(20) - 39.0(5)}{500} = 83\%$

Element: As Seq. No.: 30 AS Loc.: 13 Date: 06/08/2006
Sample ID: bf60721-msd1 x20
µL dispensed: 10 from 148, 5 from 147, 15 from 13

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	36.0	36.0	0.1088	0.1098	0.2385	0.0803	0.0853	04:51:35	Yes



2	36.0	36.0	0.1089	0.1099	0.2525	0.0763	0.0832	04:54:28 Yes
Mean:	36.0	36.0	0.1089					
SD :	0.03	0.03	0.0001					
%RSD:	0.10	0.10	0.10					

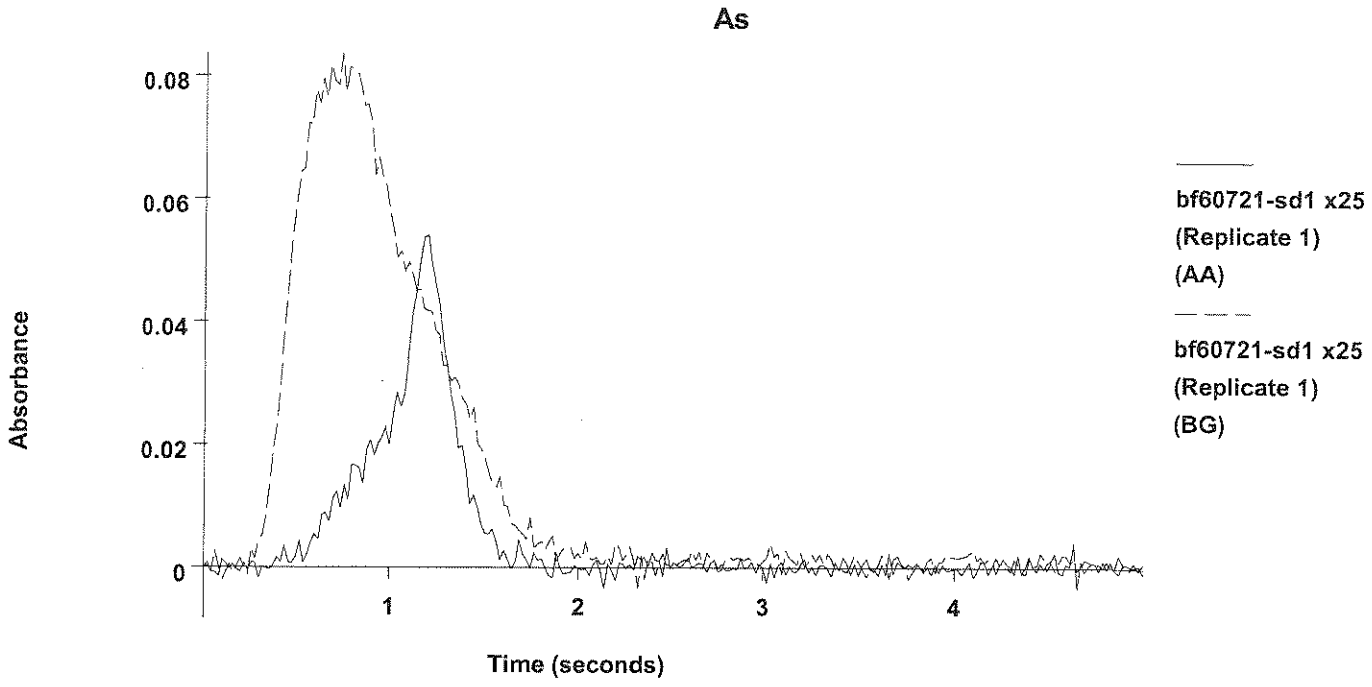
~~36.0~~ F 8/6/9/06

$\frac{36.0 - 30.5}{33.25} = 175$

==========

Element: As Seq. No.: 31 AS Loc.: 14 Date: 06/08/2006
Sample ID: bf60721-sd1 x25
µL dispensed: 10 from 148, 5 from 147, 15 from 14

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	7.4	7.4	0.0216	0.0226	0.0540	0.0673	0.0835	04:57:18	Yes

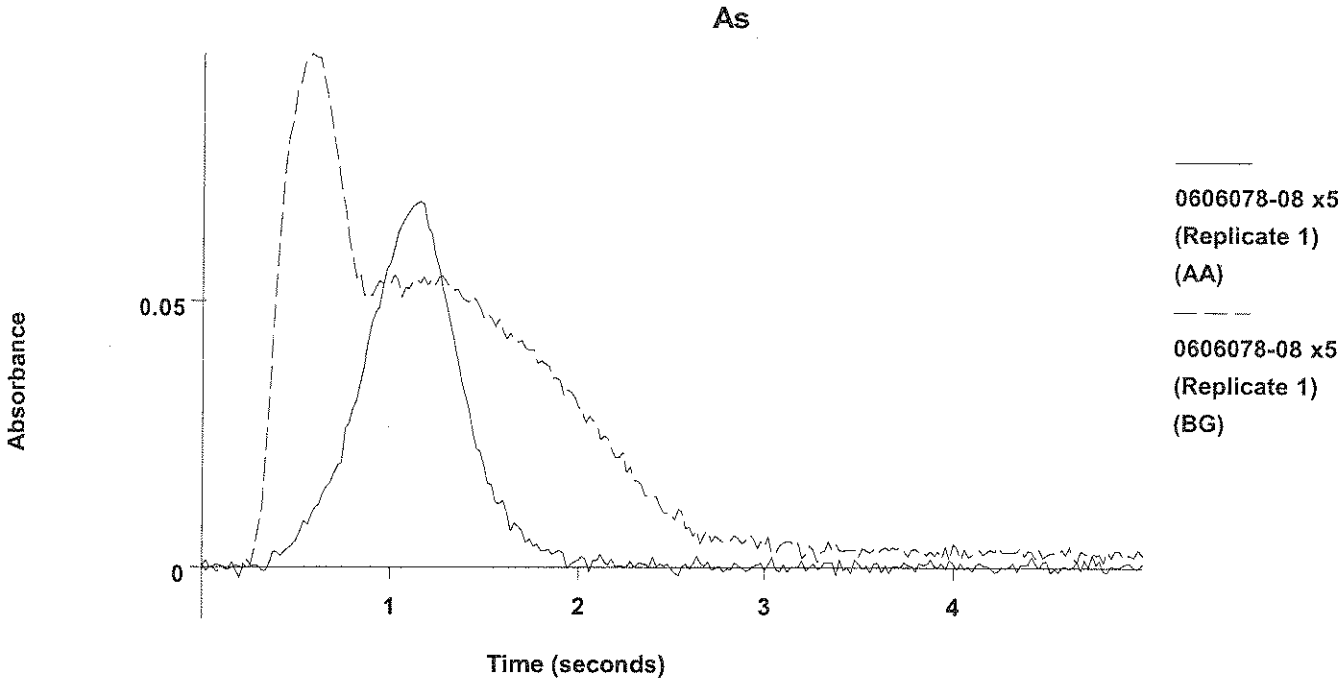


2	7.0	7.0	0.0205	0.0215	0.0540	0.0692	0.0842	05:00:09	Yes
Mean:	7.2	7.2	0.0210						
SD :	0.25	0.25	0.0008						
%RSD:	3.45	3.45	3.60						

$\frac{39.0 - 7.25}{39.0} = 85$

Element: As Seq. No.: 32 AS Loc.: 15 Date: 06/08/2006
Sample ID: 0606078-08 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 15

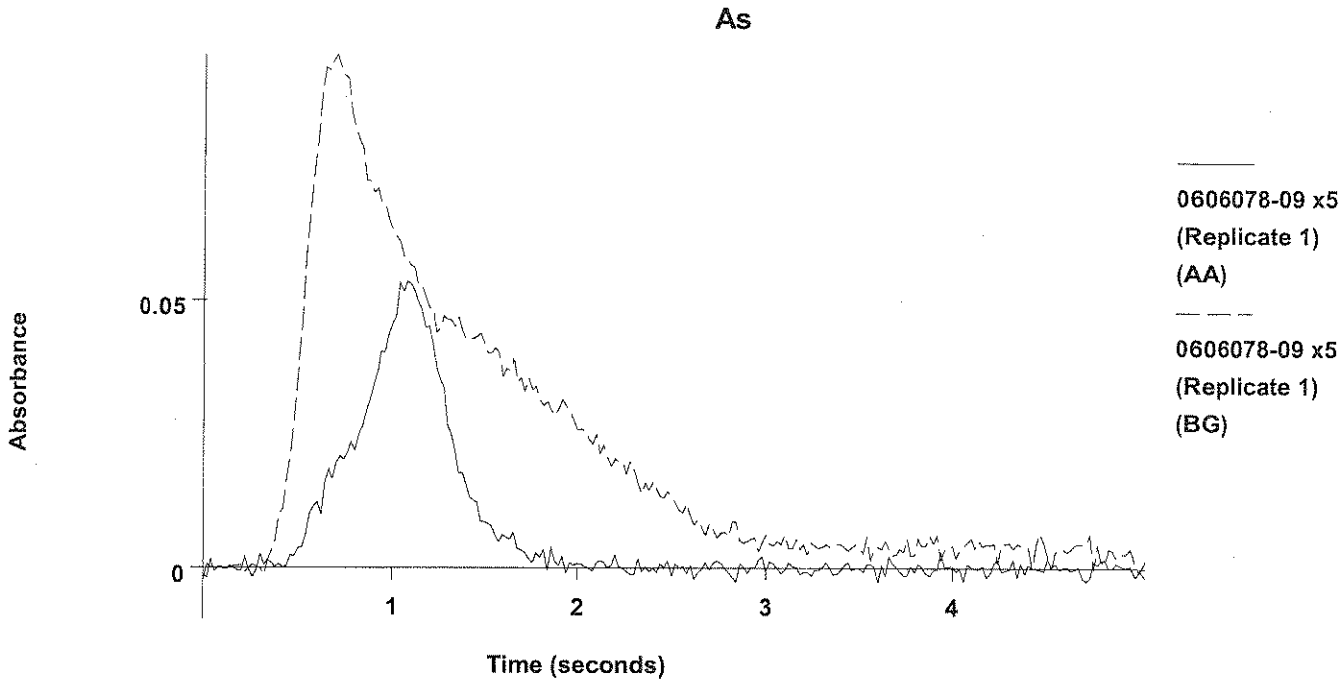
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	14.2	14.2	0.0423	0.0433	0.0686	0.1114	0.0965	05:02:59	Yes



2	14.5	14.5	0.0432	0.0442	0.0702	0.1115	0.0985	05:05:51 Yes
Mean:	14.3	14.3	0.0428					
SD :	0.19	0.19	0.0006					
%RSD:	1.34	1.34	1.37					

Element: As Seq. No.: 33 AS Loc.: 16 Date: 06/08/2006
Sample ID: 0606078-09 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 16

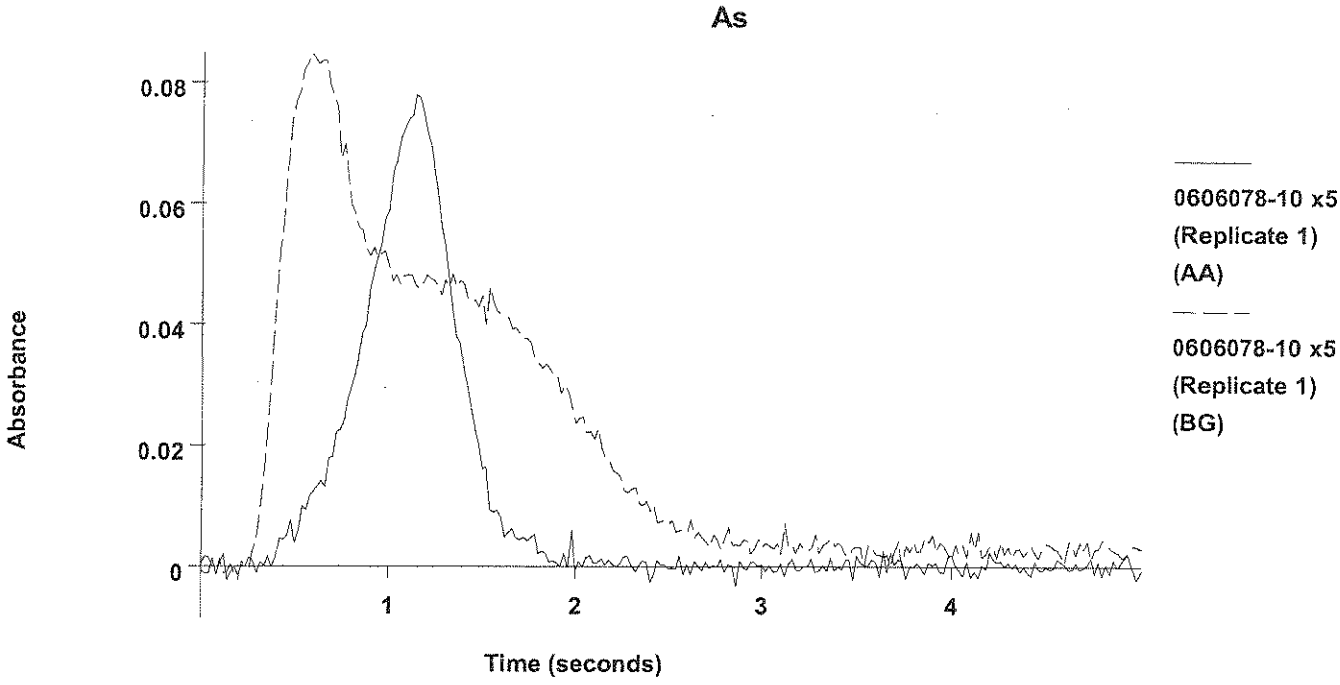
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	9.8	9.8	0.0290	0.0300	0.0535	0.1032	0.0959	05:08:41	Yes



2	10.3	10.3	0.0306	0.0316	0.0571	0.1102	0.0938	05:11:32 Yes
Mean:	10.1	10.1	0.0298					
SD :	0.39	0.39	0.0012					
%RSD:	3.83	3.83	3.95					

Element: As Seq. No.: 34 AS Loc.: 17 Date: 06/08/2006
Sample ID: 0606078-10 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 17

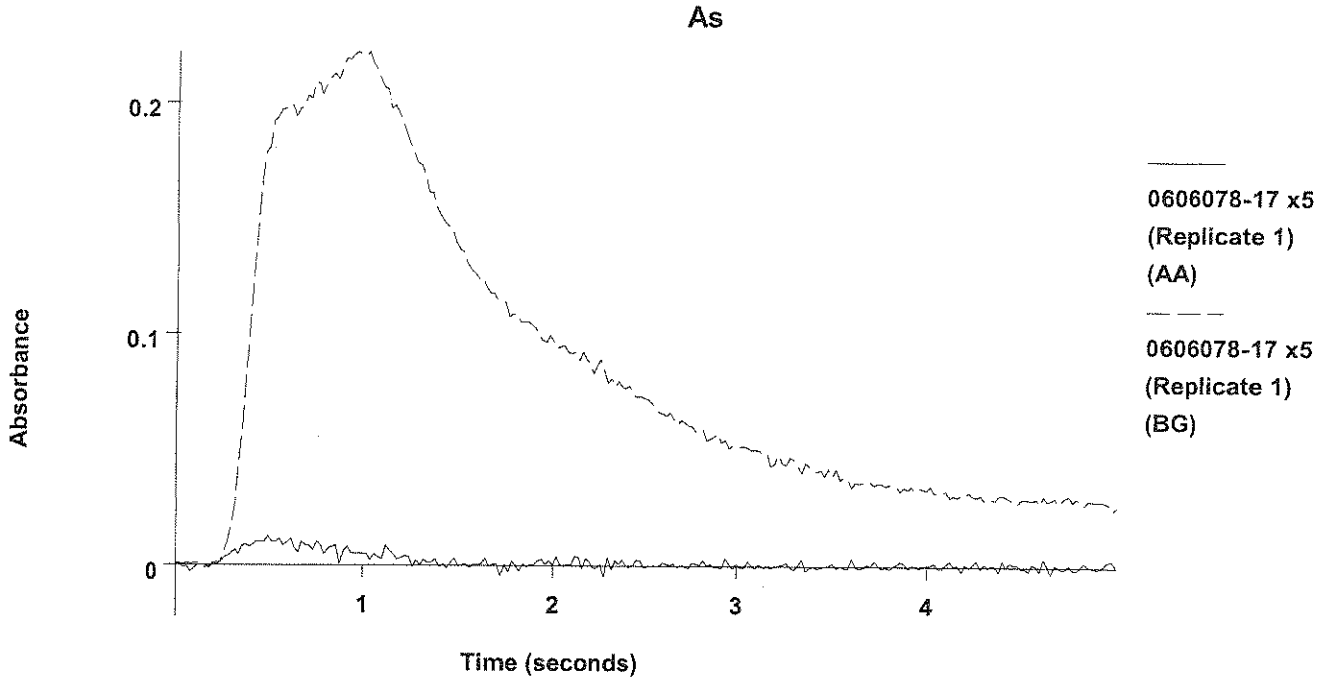
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	14.5	14.5	0.0432	0.0442	0.0780	0.0997	0.0848	05:14:22	Yes



2	14.3	14.3	0.0427	0.0437	0.0769	0.1080	0.0973	05:17:14 Yes
Mean:	14.4	14.4	0.0430					
SD :	0.11	0.11	0.0003					
%RSD:	0.75	0.75	0.77					

Element: As Seq. No.: 35 AS Loc.: 18 Date: 06/08/2006
Sample ID: 0606078-17 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 18

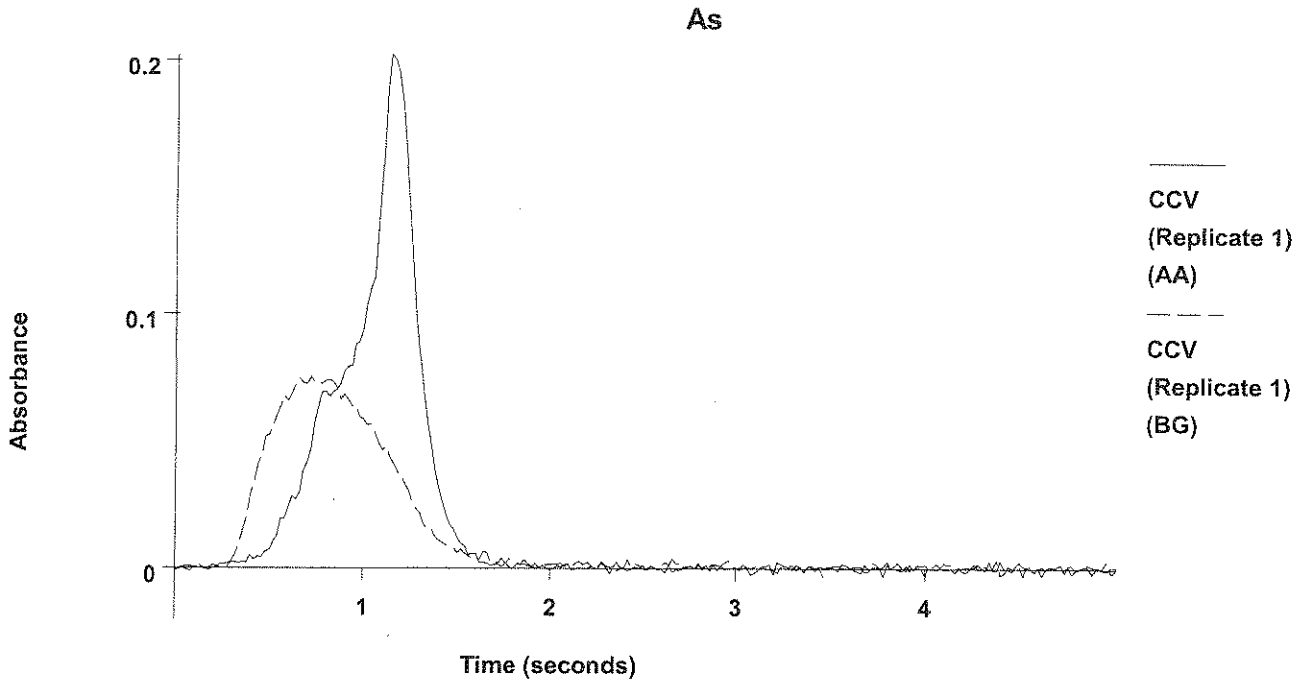
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.7	2.7	0.0074	0.0084	0.0126	0.4135	0.2221	05:20:05	Yes



2	3.2	3.2	0.0088	0.0098	0.0138	0.4197	0.2145	05:22:56 Yes
Mean:	3.0	3.0	0.0081					
SD :	0.31	0.31	0.0009					
%RSD:	10.4	10.4	11.59					

Element: As Seq. No.: 36 AS Loc.: 126 Date: 06/08/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.7	26.7	0.0804	0.0807	0.2023	0.0580	0.0752	05:25:47	Yes



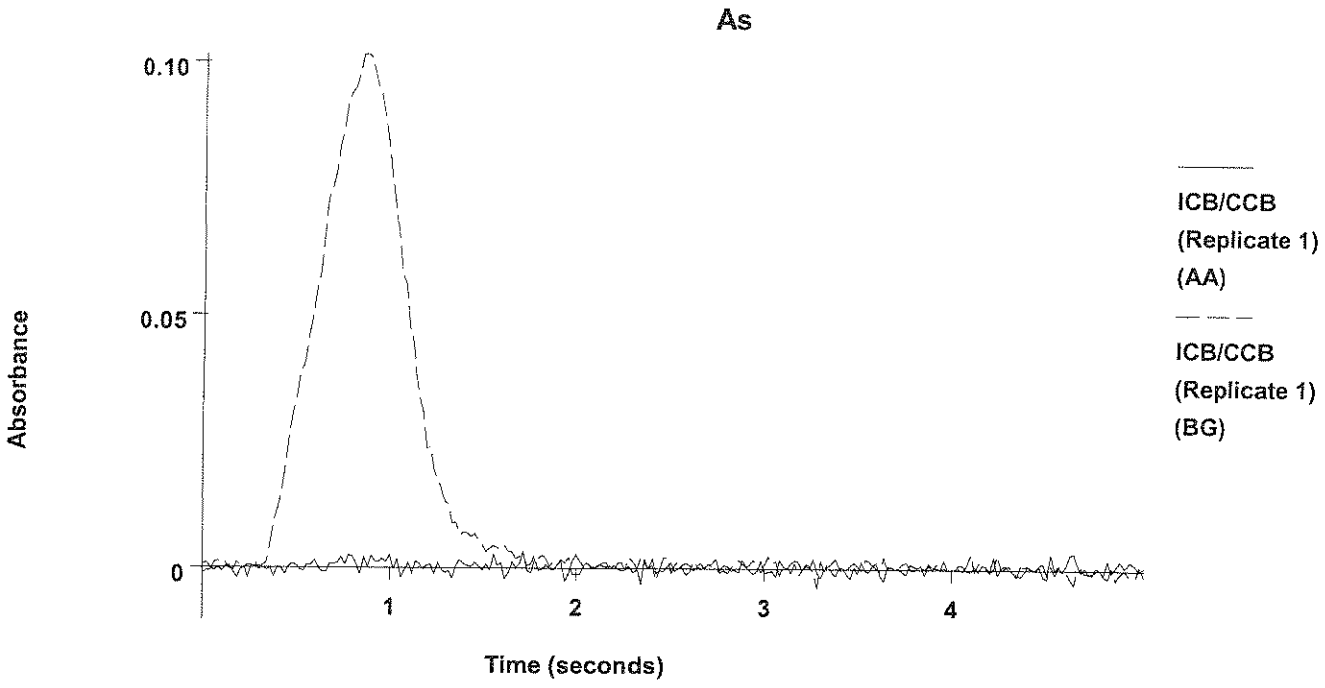
2	26.5	26.5	0.0798	0.0801	0.2061	0.0555	0.0763	05:28:40 Yes
Mean:	26.6	26.6	0.0801					
SD :	0.14	0.14	0.0004					
%RSD:	0.51	0.51	0.51					

QC value within specified limits.

✓

Element: As Seq. No.: 37 AS Loc.: 148 Date: 06/08/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.7	0.7	0.0013	0.0016	0.0034	0.0569	0.1016	05:31:31	Yes



2	0.4	0.4	0.0003	0.0006	0.0046	0.0501	0.0984	05:34:21 Yes
Mean:	0.5	0.5	0.0008					
SD :	0.23	0.23	0.0007					
%RSD:	41.8	41.8	91.61					

QC value within specified limits.

ANALYSIS SEQUENCE

BPG0167

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0167-CAL1	QC		1		6F12043		
BPG0167-CAL2	QC		2		6F12054		
BPG0167-CAL3	QC		3		6F12055		
BPG0167-CAL4	QC		4		6F12056		
BPG0167-CAL5	QC		5		6F12057		
BPG0167-ICV1	QC		6		6F12056		
BPG0167-SCV1	QC		7		6F12058		
BPG0167-ICB1	QC		8				
BF60914-BLK2	QC		9				
BF60914-BS2	QC		10				
BF60914-BSD2	QC		11				
BPG0167-CCB1	QC		12				
BPG0167-CCV1	QC		13		6F12056		
BF60914-SRM2	QC		14				
BF60914-DUP3	QC		15				
BF60914-MS3	QC		16				
BF60914-PS2	QC		17				
0606113-01	As: ppm Arsenic 7060	F	18				MACTEC Engineering & Consulting, In
0606113-03	As: ppm Arsenic 7060	F	19				MACTEC Engineering & Consulting, In
0606113-16	Tl: ppm Thallium 7841	F	20				MACTEC Engineering & Consulting, In
0606113-16	As: ppm Arsenic 7060	F	21				MACTEC Engineering & Consulting, In
0606113-14	Tl: ppm Thallium 7841	F	22				MACTEC Engineering & Consulting, In
0606113-14	As: ppm Arsenic 7060	F	23				MACTEC Engineering & Consulting, In
0606113-13	Tl: ppm Thallium 7841	F	24				MACTEC Engineering & Consulting, In
0606113-13	As: ppm Arsenic 7060	F	25				MACTEC Engineering & Consulting, In
0606113-12	Tl: ppm Thallium 7841	F	26				MACTEC Engineering & Consulting, In
0606113-12	As: ppm Arsenic 7060	F	27				MACTEC Engineering & Consulting, In
BPG0167-CCB2	QC		28				
BPG0167-CCV2	QC		29		6F12056		
0606113-11	Tl: ppm Thallium 7841	F	30				MACTEC Engineering & Consulting, In
0606113-11	As: ppm Arsenic 7060	F	31				MACTEC Engineering & Consulting, In
0606113-10	Tl: ppm Thallium 7841	F	32				MACTEC Engineering & Consulting, In
0606113-10	As: ppm Arsenic 7060	F	33				MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

BPG0167

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606113-09	Tl: ppm Thallium 7841	F	34				MACTEC Engineering & Consulting, In
0606113-09	As: ppm Arsenic 7060	F	35				MACTEC Engineering & Consulting, In
0606113-08	Tl: ppm Thallium 7841	F	36				MACTEC Engineering & Consulting, In
0606113-08	As: ppm Arsenic 7060	F	37				MACTEC Engineering & Consulting, In
0606113-07	Tl: ppm Thallium 7841	F	38				MACTEC Engineering & Consulting, In
0606113-07	As: ppm Arsenic 7060	F	39				MACTEC Engineering & Consulting, In
0606113-06	Tl: ppm Thallium 7841	F	40				MACTEC Engineering & Consulting, In
0606113-06	As: ppm Arsenic 7060	F	41				MACTEC Engineering & Consulting, In
0606113-05	As: ppm Arsenic 7060	F	42				MACTEC Engineering & Consulting, In
0606113-04	As: ppm Arsenic 7060	F	43				MACTEC Engineering & Consulting, In
0606078-01	As: ppm Arsenic 7060	F	44				MACTEC Engineering & Consulting, In
BPG0167-SRD1	QC		45				
BPG0167-CCB3	QC		46				
BPG0167-CCV3	QC		47		6F12056		
BPG0167-CCV4	QC		48		6F12056		
BPG0167-CCV5	QC		49		6F12056		
BPG0167-CCV6	QC		50		6F12056		
BPG0167-CCB4	QC		51				
BPG0167-CCB5	QC		52				
BPG0167-CCB6	QC		53				
0606113-04RE1	As: ppm Arsenic 7060	F	54				MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

Autosampler Loading List

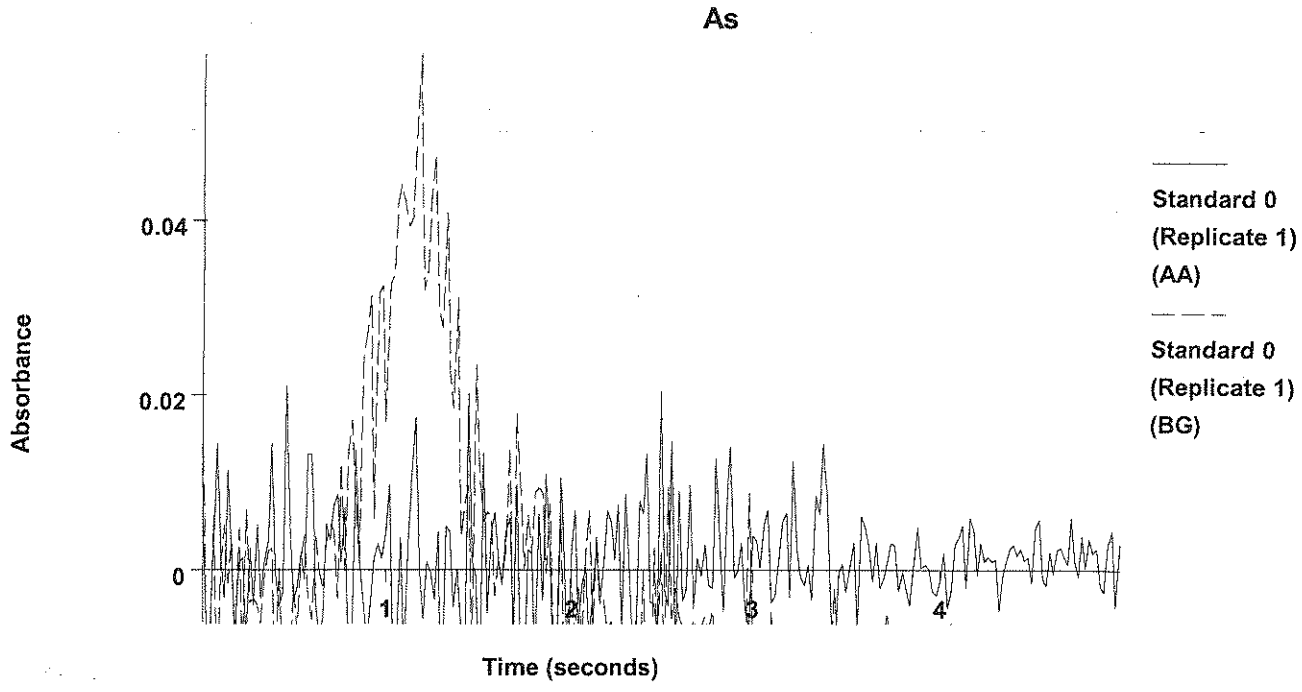
Sample Information File: 061206YA.SIF
Methods: Se 5 Sb 5 Tl 5 As 5 Pb 2

Location	Elements	Solution
1	As	Sample: 0606078-01 x5
2	Pb	Sample: BF60708-blk1
3	Pb	Sample: BF60708-bs2
4	Pb	Sample: BF60708-bsd2
5	Pb	Sample: 0606082-01
6	Se,Pb	Sample: BF60904-blk1
7	Se,Tl,Pb	Sample: BF60904-bs2
8	Se,Sb,Pb	Sample: ~~BF60604-bsd2~~ BF60904-BSD2
9	Pb	Sample: 0606088-01
10	Se,Pb	Sample: 0606122-01
11	Tl,As	Sample: BF60914-blk1
12	Tl,As	Sample: BF60914-bs1 x20
13	Tl,As	Sample: BF69014-bsd1 x20
14	Tl,As	Sample: BF60914-srm1 x50
15	As	Sample: 0606113-01 x5
16	As	Sample: 0606113-03 x5
17	As	Sample: 0606113-04 x5
18	As	Sample: 0606113-05 x5
19	Tl,As	Sample: 0606113-06 x5
20	Tl,As	Sample: 0606113-07 x5
21	Tl,As	Sample: 0606113-08 x5
22	Tl,As	Sample: 0606113-09 x5
23	Tl,As	Sample: 0606113-10 x5
24	Tl,As	Sample: 0606113-11 x5
25	Tl,As	Sample: BF60914-dup1 x5
26	Tl,As	Sample: BF60914-ms1 x20
27	Tl,As	Sample: BF60914-sd1 x25
28	Tl,As	Sample: 0606113-12 x5
29	Tl,As	Sample: 0606113-13 x5
30	Tl,As	Sample: 0606113-14 x5
31	Tl,As	Sample: 0606113-16 x5
121	Se	Stock Standard: 10.0 µg/L
	Sb,Tl,As,Pb	Stock Standard: 5.0 µg/L
124	Se	Stock Standard: 20.0 µg/L
	Sb,Tl,As,Pb	Stock Standard: 10.0 µg/L
126	Se	Stock Standard: 50.0 µg/L
	Se	STD 3: 50.0000 µg/L
	Se	CCV: 50.0000 µg/L
	Sb,Tl,As,Pb	Stock Standard: 25.0 µg/L
	Sb,Tl,As,Pb	STD 3: 25.0000 µg/L
	Sb,Tl,As,Pb	CCV: 25.0000 µg/L
129	Se	Stock Standard: 100.0 µg/L
	Sb,Tl,As,Pb	Stock Standard: 50.0 µg/L
131	Se	Recovery Stock: 100.0 µg/L
	Sb,Tl,As,Pb	Recovery Stock: 50.0 µg/L
134	Se	ICV: 50.0000 µg/L
	Sb,Tl,As,Pb	ICV: 25.0000 µg/L
136	Se	CRA 4: 4.0000 µg/L
	Sb,Tl,As,Pb	CRA 2: 2.0000 µg/L
146	Pb	Modifier 2
147	Se,Sb,Tl,As	Modifier 1
148	Se,Sb,Tl,As,Pb	Standard 0
	Se,Sb,Tl,As,Pb	ICB/CCB: 0.0000 µg/L
	Se,Sb,Tl,As,Pb	Diluent

```
================================================================================
Method Name: As 5
Method Description: As
Element: As

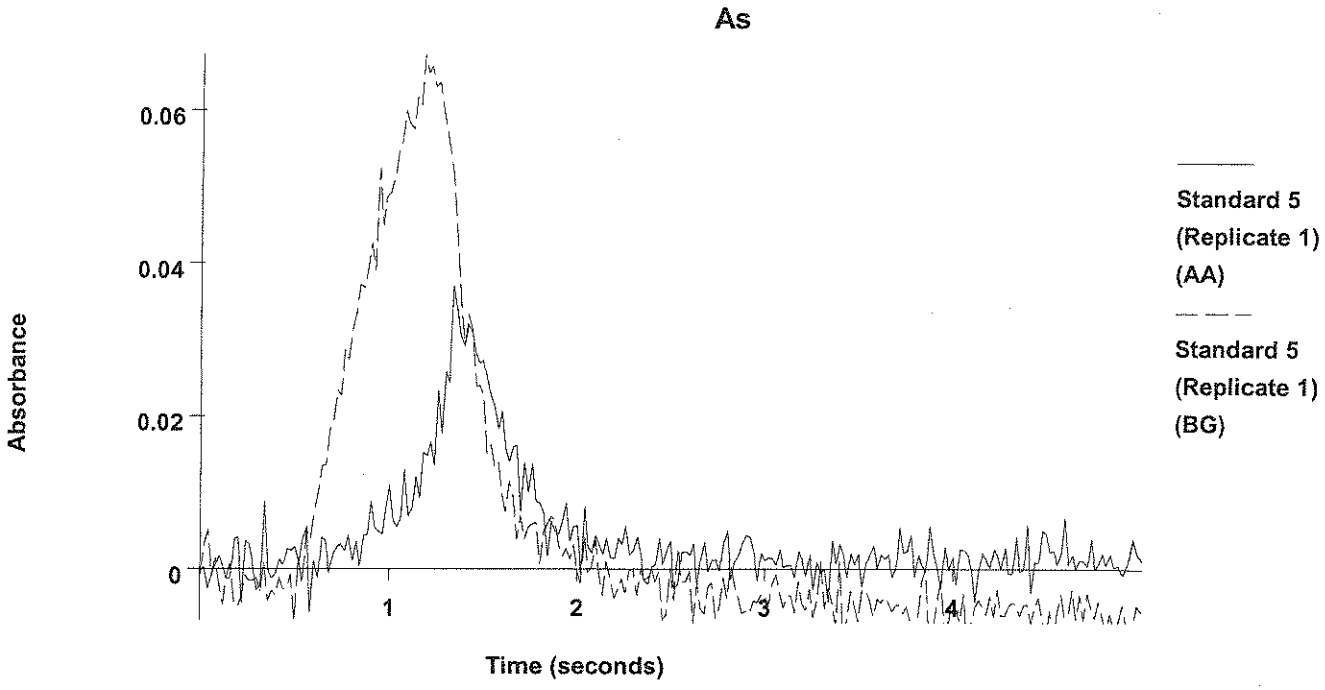
Date: 06/12/2006
Technique:Furnace
Calibration Type:
As, Calc. Intercept : Linear
Wavelength: 193.7 nm
Energy: 100
Slit Width: 0.7
Lamp Current: 350mA
Sample Info Name: 061206YA.SIF        Results Data Set Name: 061206yad

================================================================================
Element: As    Seq. No.: 68       AS Loc.: 148   Date: 06/12/2006
Sample ID: Standard 0
µL dispensed:  10 from 148, 5 from 147, 15 from 148
--------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak     Peak     Bkgnd    Bkgnd    Time    Peak
 #                            Signal    Area     Height   Area     Height           Stored
 1                            0.0047    0.0047   0.0211   -0.0118  0.0590  04:33:47 Yes
```




```
 2                            0.0014    0.0014   0.0112   0.0174   0.0637  04:36:36 Yes
Mean:                         0.0031
SD  :                         0.0023
%RSD:                          76.08
Auto-zero performed.

================================================================================
Element: As    Seq. No.: 69       AS Loc.: 121   Date: 06/12/2006
Sample ID: Standard 5
µL dispensed:  10 from 148, 5 from 147, 15 from 121
--------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak     Peak     Bkgnd    Bkgnd    Time    Peak
 #                            Signal    Area     Height   Area     Height           Stored
 1                            0.0188    0.0218   0.0370   0.0281   0.0673  04:39:51 Yes
```

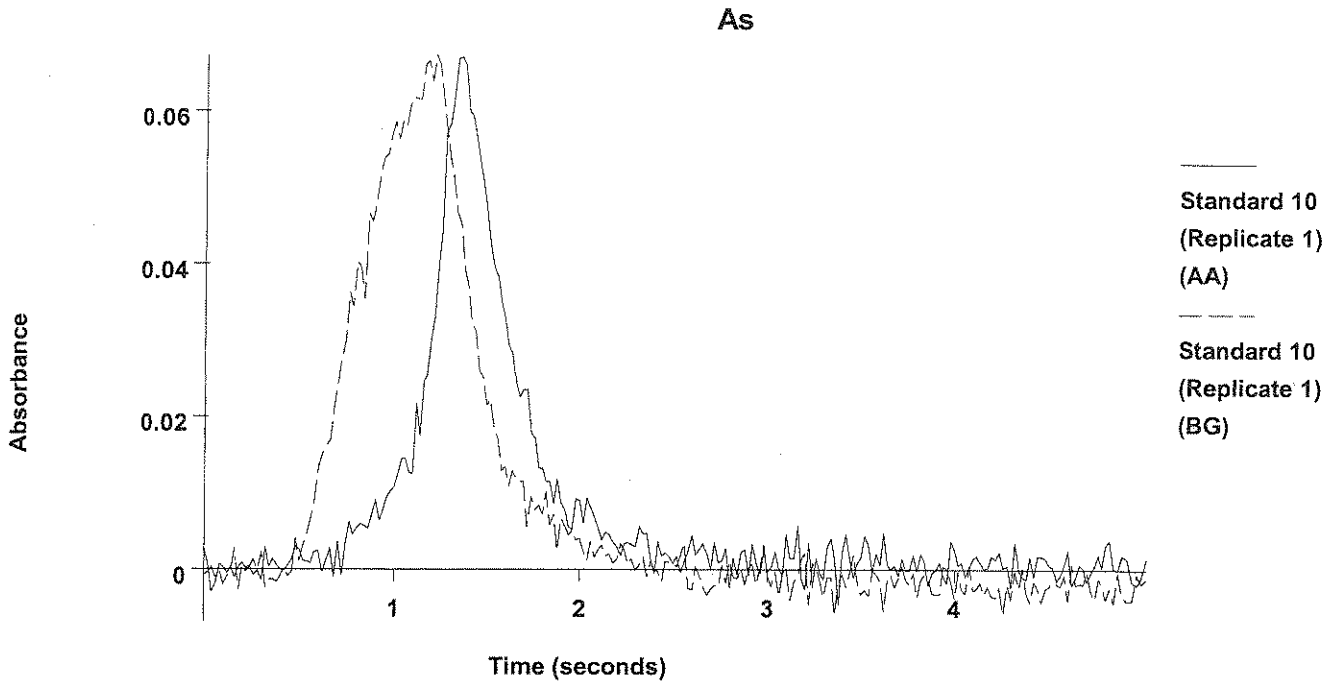


2			0.0170	0.0201	0.0311	0.0335	0.0681	04:42:43 Yes
Mean:			0.0179					
SD :			0.0013					
%RSD:			7.01					

[As] Standard number 1 applied. [5.0]
Correlation Coefficient: 1.00000 Slope: 0.00358
Intercept : 0.00000

Element: As Seq. No.: 70 AS Loc.: 124 Date: 06/12/2006
Sample ID: Standard 10
µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0334	0.0365	0.0670	0.0426	0.0673	04:46:01	Yes

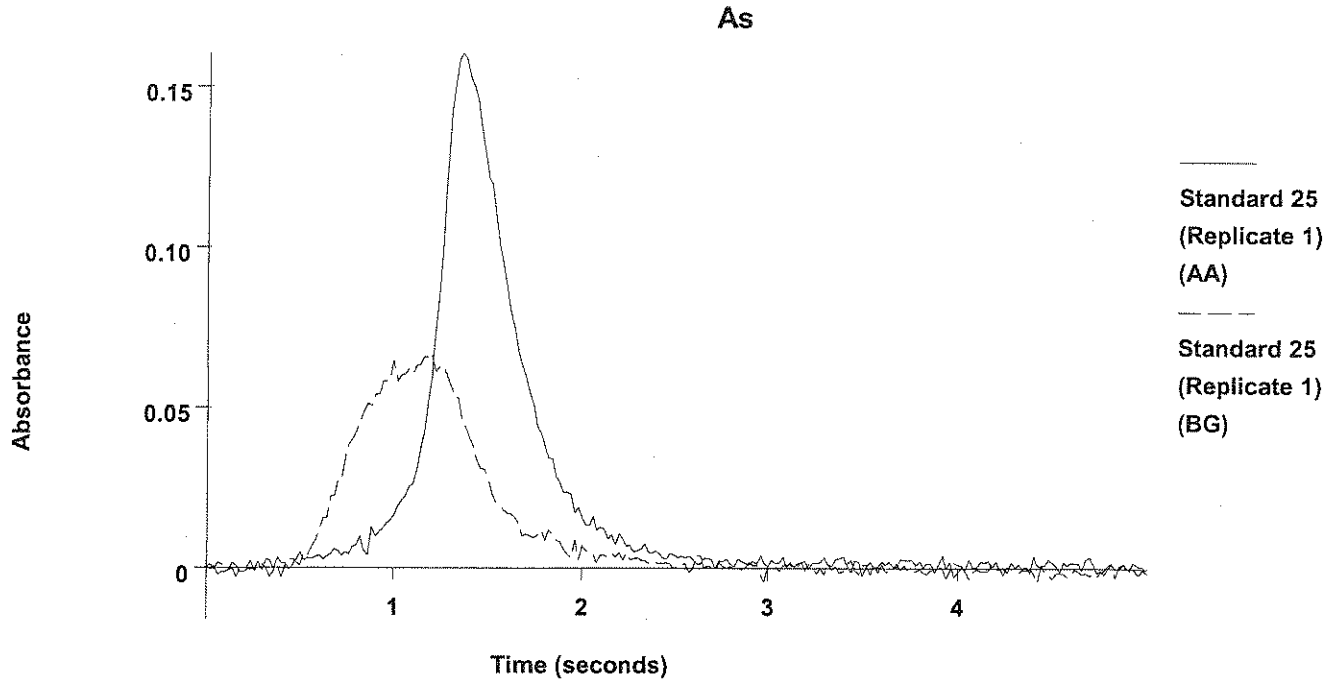


2		0.0332	0.0363	0.0662	0.0432	0.0672	04:48:53	Yes
Mean:		0.0333						
SD :		0.0002						
%RSD:		0.50						

[As] Standard number 2 applied. [10.0]
Correlation Coefficient: 0.99911 Slope: 0.00333
Intercept : 0.00041

Element: As Seq. No.: 71 AS Loc.: 126 Date: 06/12/2006
Sample ID: Standard 25
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0809	0.0840	0.1602	0.0506	0.0669	04:52:12	Yes

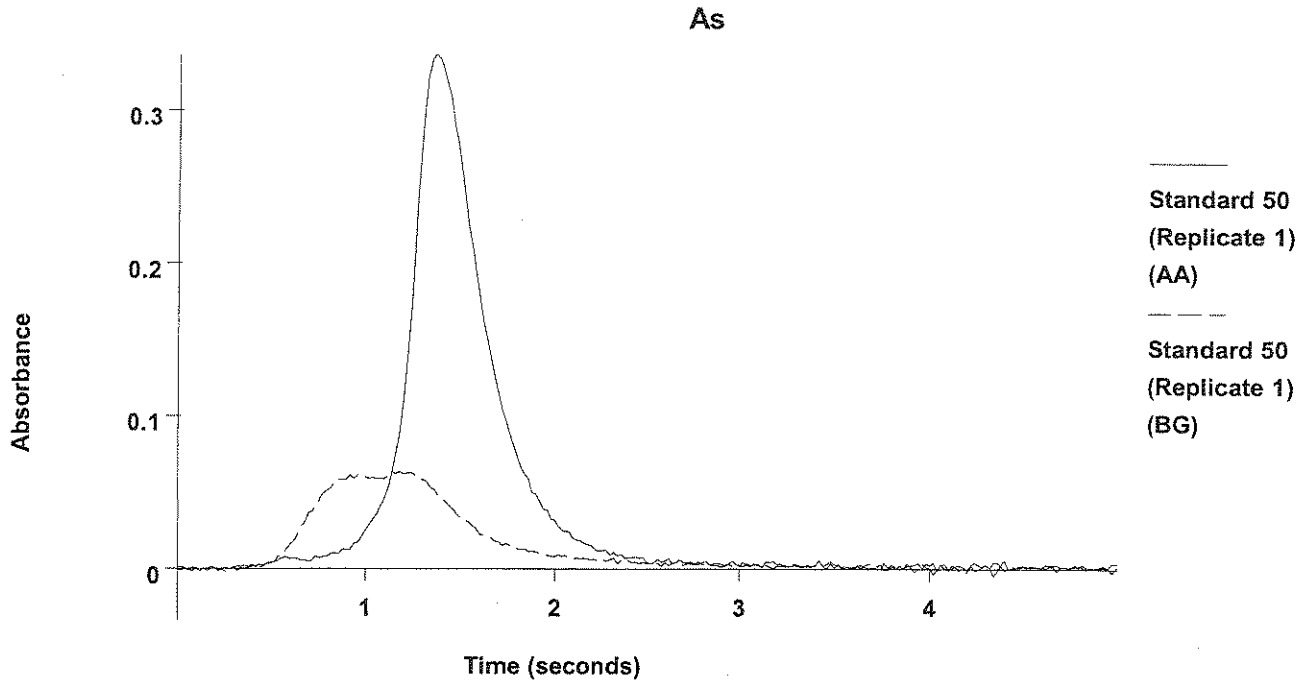


2		0.0806	0.0837	0.1605	0.0620	0.0714	04:55:07	Yes
Mean:		0.0807						
SD :		0.0002						
%RSD:		0.29						

[As] Standard number 3 applied. [25.0]
Correlation Coefficient: 0.99973 Slope: 0.00320
Intercept : 0.00094

Element: As Seq. No.: 72 AS Loc.: 129 Date: 06/12/2006
Sample ID: Standard 50
µL dispensed: 10 from 148, 5 from 147, 15 from 129

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.1634	0.1665	0.3364	0.0633	0.0634	04:58:25	Yes



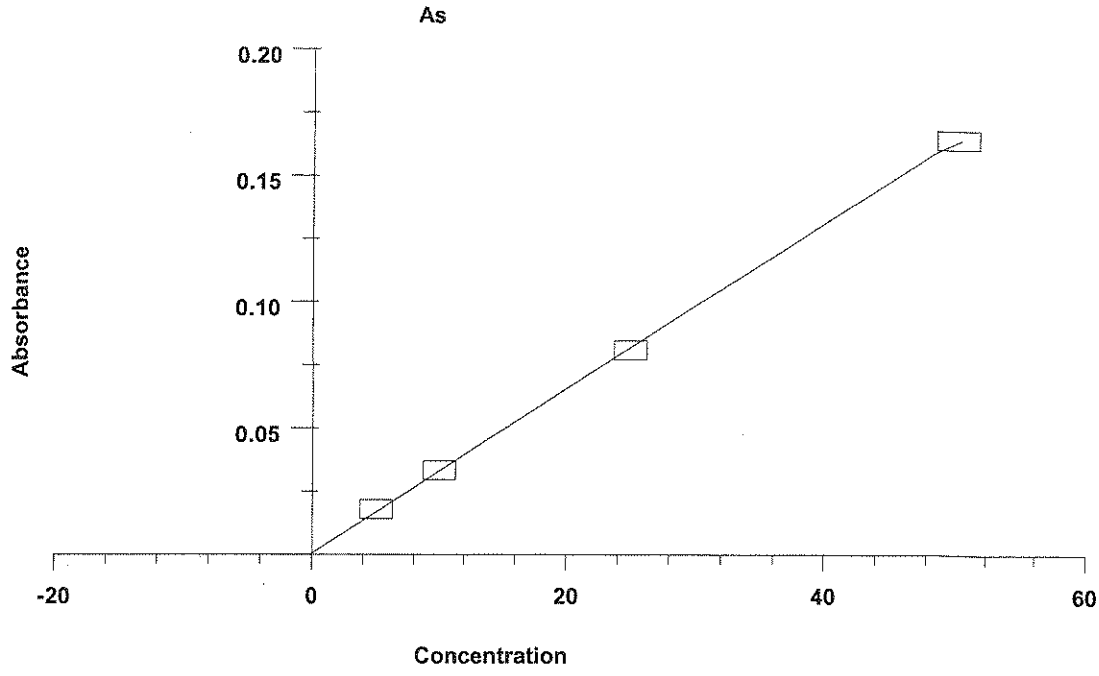
2	0.1645	0.1676	0.3249	0.0627	0.0639	05:01:18 Yes
Mean:	0.1639					
SD :	0.0008					
%RSD:	0.48					

[As] Standard number 4 applied. [50.0]
Correlation Coefficient: 0.99991 Slope: 0.00326
Intercept : 0.00052

Calibration data for As

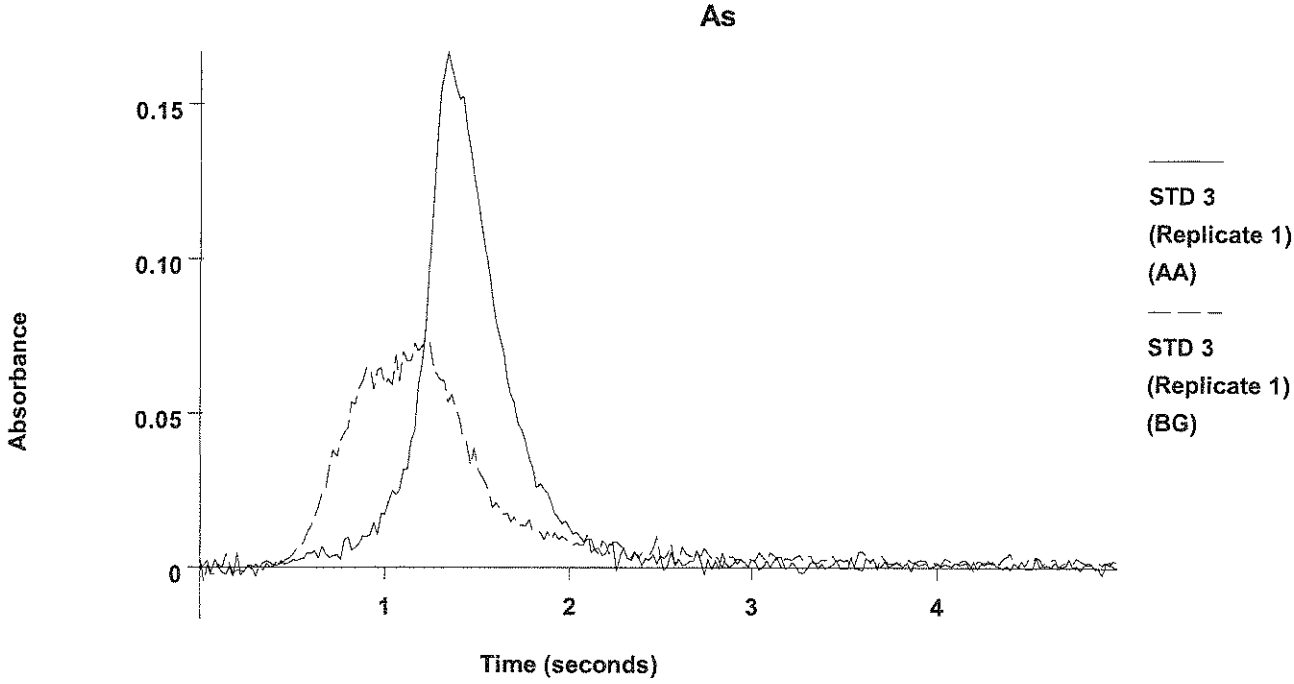
Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0031	-	----	----	----
Standard 5	0.0179	5.0	5.3	0.00	7.01
Standard 10	0.0333	10.0	10.1	0.00	0.50
Standard 25	0.0807	25.0	24.6	0.00	0.29
Standard 50	0.1639	50.0	50.1	0.00	0.48

Correlation Coefficient: 0.99991 Slope: 0.00326 Intercept: 0.0005

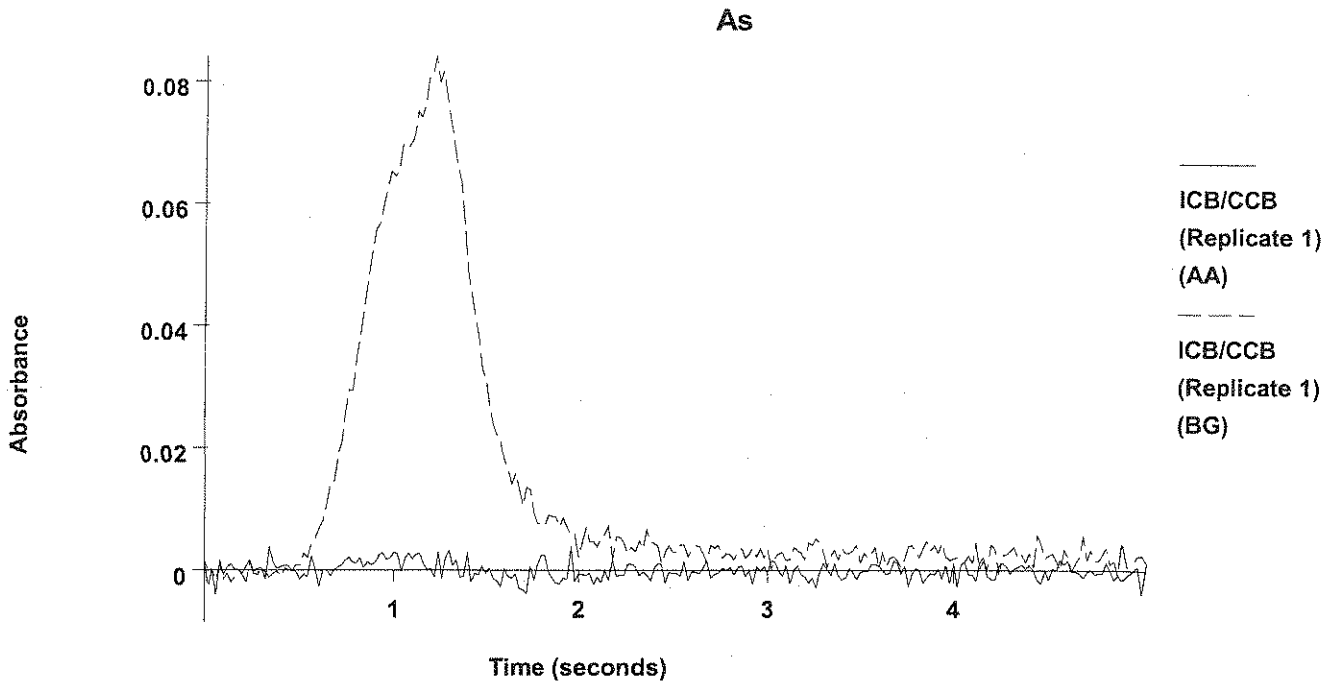


Element: As Seq. No.: 73 AS Loc.: 126 Date: 06/12/2006
Sample ID: STD 3
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.8	23.8	0.0782	0.0813	0.1668	0.0654	0.0740	05:04:16	Yes



2	24.3	24.3	0.0796	0.0826	0.1642	0.0642	0.0725	05:07:10	Yes



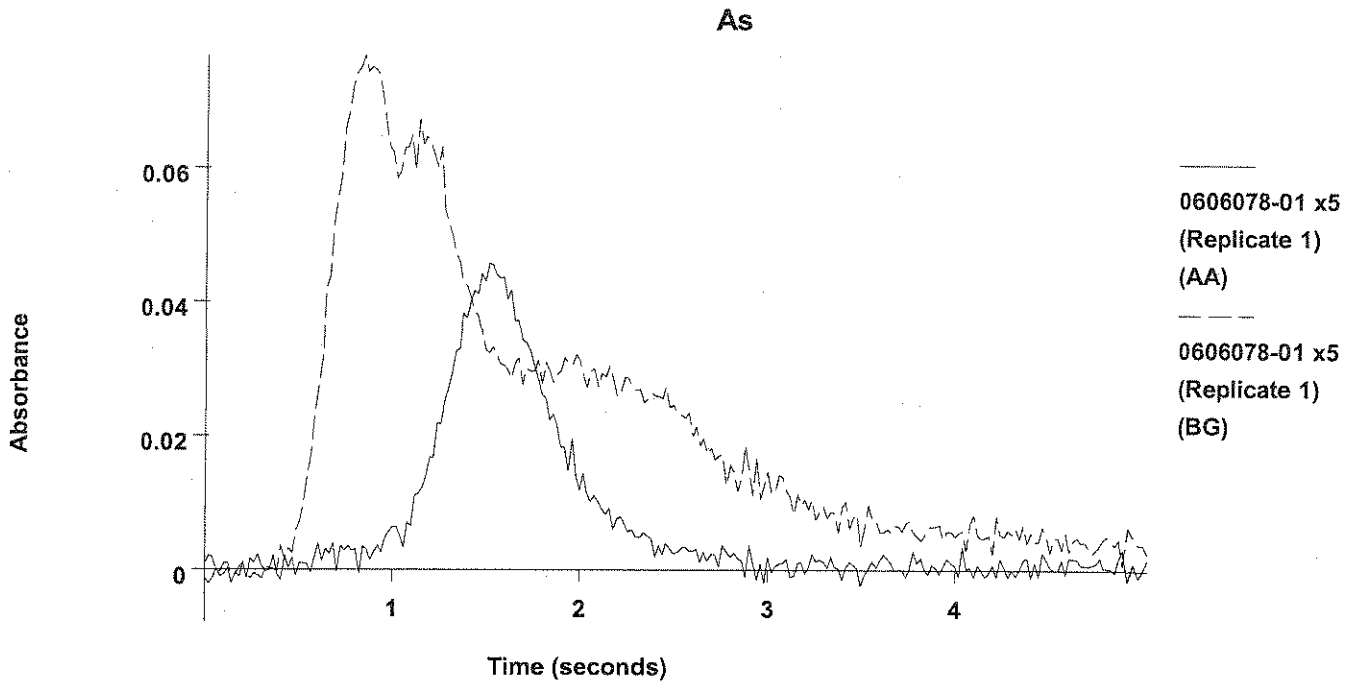
2	-0.5	-0.5	-0.0011	0.0020	0.0042	0.0613	0.0811	05:18:32	Yes
Mean:	-0.8	-0.8	-0.0022						
SD :	0.49	0.49	0.0016						
%RSD:	59.3	59.3	73.20						

QC value within specified limits.

==========

Element: As Seq. No.: 76 AS Loc.: 1 Date: 06/12/2006
Sample ID: 0606078-01 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	9.2	9.2	0.0304	0.0335	0.0457	0.1043	0.0767	05:21:21	Yes

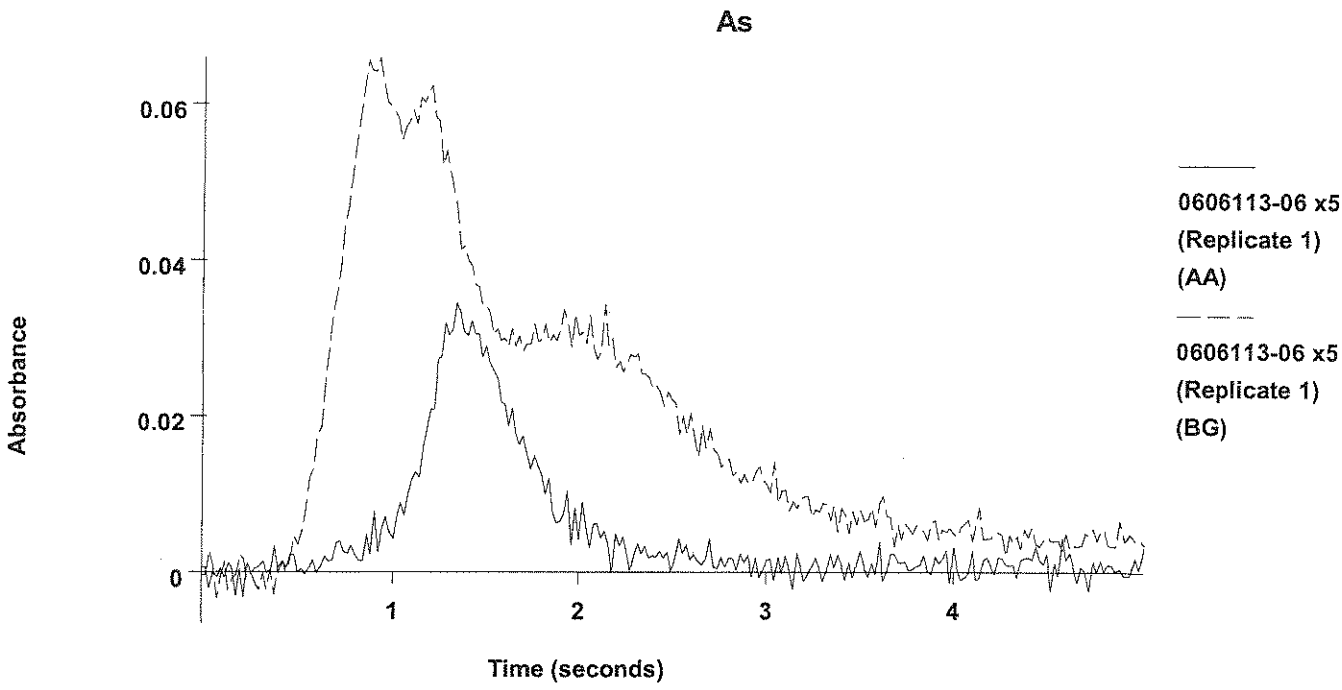


2	9.0	9.0	0.0297	0.0328	0.0479	0.1010	0.0743	05:24:11 Yes
Mean:	9.1	9.1	0.0301					
SD :	0.16	0.16	0.0005					
%RSD:	1.73	1.73	1.70					

==========

Element: As Seq. No.: 77 AS Loc.: 11 Date: 06/12/2006
Sample ID: BF60914-blk1
µL dispensed: 10 from 148, 5 from 147, 15 from 11

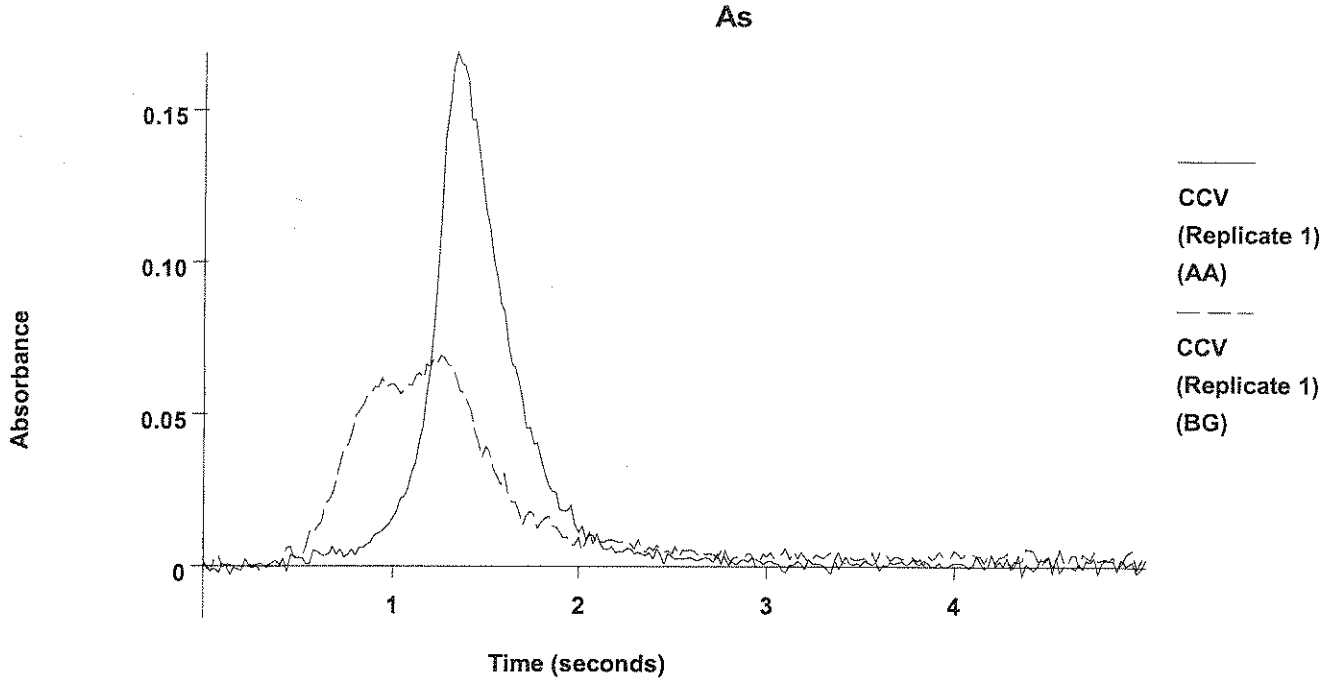
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0010	0.0021	0.0051	0.0608	0.0674	05:27:02	Yes



2	6.0	6.0	0.0201	0.0231	0.0356	0.1024	0.0708	06:32:47	Yes
Mean:	6.2	6.2	0.0206						
SD :	0.22	0.22	0.0007						
%RSD:	3.54	3.54	3.45						

Element: As Seq. No.: 89 AS Loc.: 126 Date: 06/12/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.4	24.4	0.0802	0.0820	0.1690	0.0686	0.0691	06:35:39	Yes



2	24.4	24.4	0.0801	0.0820	0.1698	0.0669	0.0674	06:38:32	Yes
Mean:	24.4	24.4	0.0802						
SD :	0.01	0.01	0.0000						
%RSD:	0.06	0.06	0.06						

QC value within specified limits.

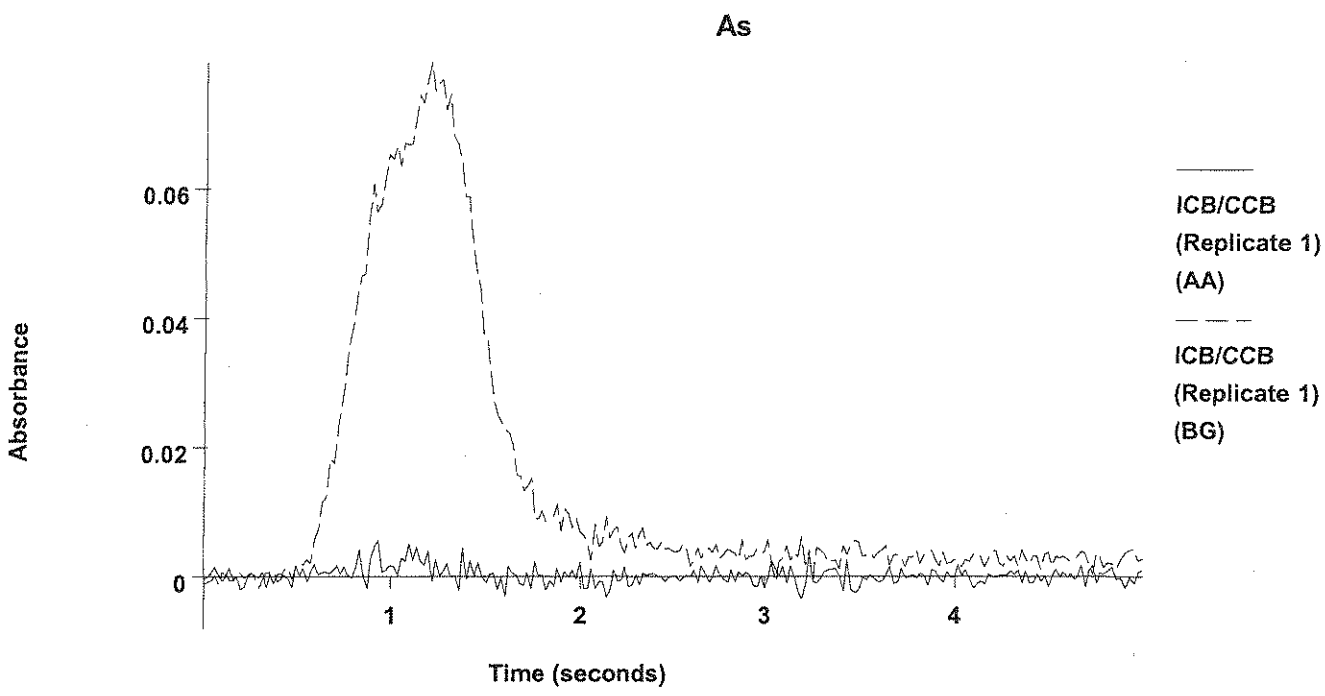
==========

Element: As Seq. No.: 90 AS Loc.: 148 Date: 06/12/2006

Sample ID: ICB/CCB

µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0009	0.0009	0.0055	0.0659	0.0796	06:41:22	Yes



2	-0.6	-0.6	-0.0014	0.0005	0.0058	0.0598	0.0748	06:44:13 Yes
Mean:	-0.5	-0.5	-0.0012					
SD :	0.10	0.10	0.0003					
%RSD:	18.8	18.8	27.17					

QC value within specified limits.

Element: As Seq. No.: 91 AS Loc.: 20 Date: 06/12/2006
Sample ID: 0606113-07 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 20

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.2	3.2	0.0110	0.0141	0.0207	0.1268	0.0980	06:47:03	Yes

ANALYSIS SEQUENCE

BPG0166

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0166-CAL1	QC		1		6F05068		
BPG0166-CAL2	QC		2		6F10016		
BPG0166-CAL3	QC		3		6F10011		
BPG0166-CAL4	QC		4		6F10012		
BPG0166-CAL5	QC		5		6F10013		
BPG0166-ICV1	QC		6		6F10012		
BPG0166-SCV1	QC		7		6F10019		
BPG0166-ICB1	QC		8				
BF60721-BLK4	QC		9				
BF60721-BS4	QC		10				
BF60721-BSD4	QC		11				
BPG0166-CCB1	QC		12				
BPG0166-CCV1	QC		13		6F10012		
BF60721-SRM4	QC		14				
BF60721-DUP4	QC		15				
BF60721-MS4	QC		16				
BF60721-PS4	QC		17				
0606078-01	Tl: ppm Thallium 7841	F	18				MACTEC Engineering & Consulting, In
0606078-02	Tl: ppm Thallium 7841	F	19				MACTEC Engineering & Consulting, In
0606078-03	Tl: ppm Thallium 7841	F	20				MACTEC Engineering & Consulting, In
0606078-04	Tl: ppm Thallium 7841	F	21				MACTEC Engineering & Consulting, In
0606078-05	Tl: ppm Thallium 7841	F	22				MACTEC Engineering & Consulting, In
0606078-08	Tl: ppm Thallium 7841	F	23				MACTEC Engineering & Consulting, In
BPG0166-CCB2	QC		24				
BPG0166-CCV2	QC		25		6F10012		
0606078-09	Tl: ppm Thallium 7841	F	26				MACTEC Engineering & Consulting, In
0606078-10	Tl: ppm Thallium 7841	F	27				MACTEC Engineering & Consulting, In
0606078-17	Tl: ppm Thallium 7841	F	28				MACTEC Engineering & Consulting, In
0606113-01	Tl: ppm Thallium 7841	F	29				MACTEC Engineering & Consulting, In
0606113-03	Tl: ppm Thallium 7841	F	30				MACTEC Engineering & Consulting, In
0606113-04	Tl: ppm Thallium 7841	F	31				MACTEC Engineering & Consulting, In
0606113-05	Tl: ppm Thallium 7841	F	32				MACTEC Engineering & Consulting, In
BPG0166-CCB3	QC		33				

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

BPG0166

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0166-CCV3	QC		34		6F10012		
BPG0166-SRD1	QC		35				
BPG0166-CCV4	QC		36		6F10012		
BPG0166-CCV5	QC		37		6F10012		
BPG0166-CCV6	QC		38		6F10012		
BPG0166-CCB4	QC		39				
BPG0166-CCB5	QC		40				
BPG0166-CCB6	QC		41				

Samples Loaded By Date

Data Processed By Date

Autosampler Loading List

Sample Information File: 061006YA.SIF
Methods: Tl 2 ~~Pb 2~~ ~~As 5~~ Sb 5 ~~Se 5~~

Location	Elements	Solution
1	Tl	Sample: bf60721-blk1
2	Tl	Sample: bf60721-bs1 x20
3	Tl	Sample: bf60721-bsd1 x20
4	Tl	Sample: bf60721-srm1 x50
5	Tl ~~As~~	Sample: 0606078-01 x5
6	Tl	Sample: 0606078-02 x5
7	Tl	Sample: 0606078-03 x5
8	Tl	Sample: 0606078-04 x5
9	Tl	Sample: 0606078-05 x5
10	Tl	Sample: bf60721-dup1 x5
11	Tl	Sample: bf60721-ms1 x20
12	Tl	Sample: bf60721-msd1 x20
13	Tl	Sample: bf60721-sd1 x25
14	Tl	Sample: 0606078-08 x5
15	Tl	Sample: 0606078-09 x5
16	Tl	Sample: 0606078-10 x5
17	Tl	Sample: 0606078-17 x5
18	Pb	Sample: BF60708-blk1
19	Pb	Sample: BF60708-bs2
20	Pb	Sample: BF60708-bsd2
21	Pb	Sample: 0606082-01
22	Tl,Pb,As,Sb,Se	Sample: ~~BF60914-blk1~~ BF60904-BLK1
23	~~Tl~~,Pb,As,Sb,Se	Sample: ~~BF60914-bs2~~ BF60904-BS2
24	Tl,Pb,As,~~Sb~~,Se	Sample: ~~BF60614-bsd2~~ BF60904-BSD2
25	Tl,Pb,As,Sb	Sample: 0606088-01
26	Tl,As,~~Se~~	Sample: 0606122-01
27	Tl,As	Sample: BF60914-blk1
28	~~Tl~~,As	Sample: BF60914-bs1 x20
29	~~Tl~~,As	Sample: BF69014-bsd1 x20
30	~~Tl~~,As	Sample: BF60914-srm1 x50
31	Tl,As	Sample: 0606113-01 x5
32	Tl,As	Sample: 0606113-03 x5
33	Tl,As	Sample: 0606113-04 x5
34	Tl,As	Sample: 0606113-05 x5
35	~~Tl~~,As	Sample: 0606113-06 x5
36	Tl,As	Sample: 0606113-07 x5
37	Tl,As	Sample: 0606113-08 x5
38	Tl,As	Sample: 0606113-09 x5
39	Tl,As	Sample: 0606113-10 x5
40	Tl,As	Sample: 0606113-11 x5
41	Tl,As	Sample: BF60914-dup1 x5
42	~~Tl~~,As	Sample: BF60914-ms1 x20
43	~~Tl~~,As	Sample: BF60914-sd1 x25
44	~~Tl~~,As	Sample: 0606113-12 x5
45	~~Tl~~,As	Sample: 0606113-13 x5
46	~~Tl~~,As	Sample: 0606113-14 x5
47	~~Tl~~,As	Sample: 0606113-16 x5
121	Tl,Pb,As,Sb	Stock Standard: 5.0 µg/L
	Se	Stock Standard: 10.0 µg/L
124	Tl,Pb,As,Sb	Stock Standard: 10.0 µg/L
	Tl	STD 3: 10.0000 µg/L
	Tl	CCV: 10.0000 µg/L
	Se	Stock Standard: 20.0 µg/L
126	Tl,Pb,As,Sb	Stock Standard: 25.0 µg/L
	Pb,As,Sb	STD 3: 25.0000 µg/L
	Pb,As,Sb	CCV: 25.0000 µg/L
	Se	Stock Standard: 50.0 µg/L
	Se	STD 3: 50.0000 µg/L
	Se	CCV: 50.0000 µg/L
129	Pb,As,Sb	Stock Standard: 50.0 µg/L
	Se	Stock Standard: 100.0 µg/L

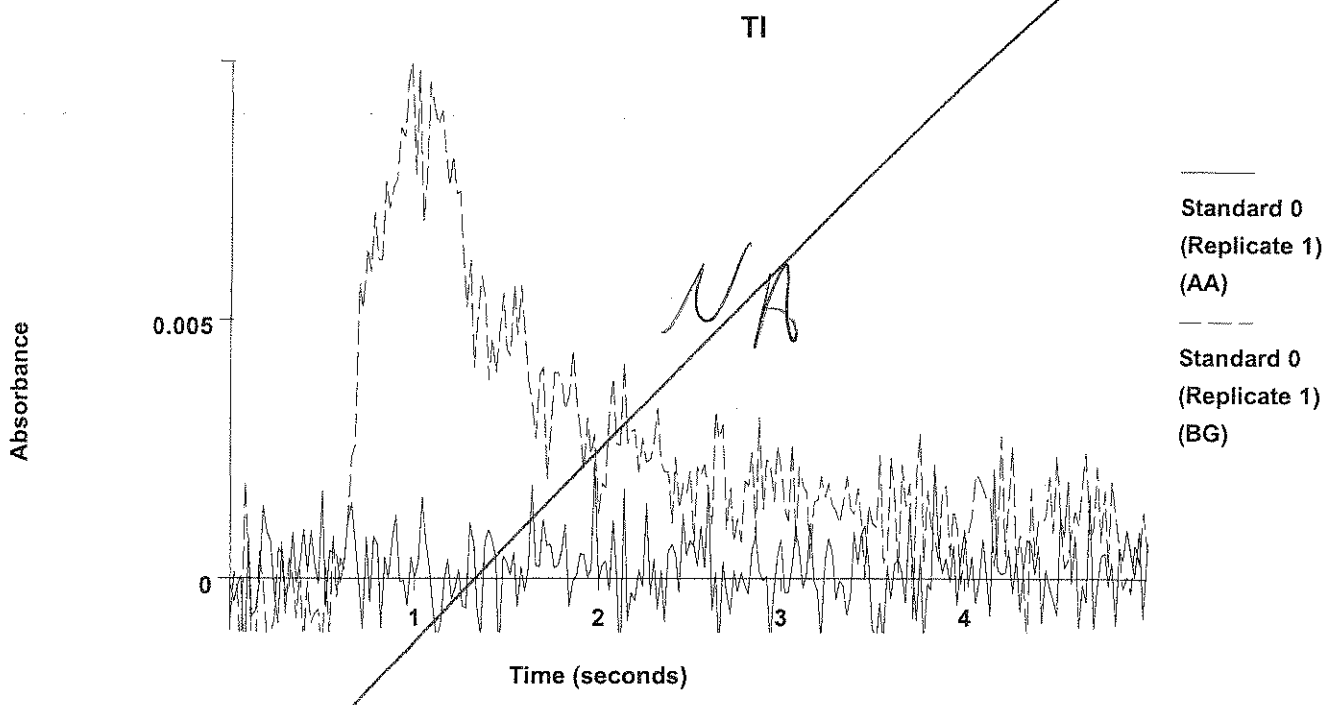
131	Tl,Pb,As,Sb	Recovery Stock: 50.0 µg/L
	Se	Recovery Stock: 100.0 µg/L
134	Pb,As,Sb	ICV: 25.0000 µg/L
	Se	ICV: 50.0000 µg/L
136	Tl	Stock Standard: 2.0 µg/L
	Pb,As,Sb	CRA 2: 2.0000 µg/L
	Se	CRA 4: 4.0000 µg/L
139	Tl	ICV: 10.0000 µg/L
146	Pb	Modifier 2
147	Tl,As,Sb,Se	Modifier 1
148	Tl,Pb,As,Sb,Se	Standard 0
	Tl,Pb,As,Sb,Se	ICB/CCB: 0.0000 µg/L
	Tl,Pb,As,Sb,Se	Diluent

Method Name: Tl 2
Method Description: Tl 2
Element: Tl

Date: 06/10/2006
Technique:Furnace
Calibration Type:
Tl, Calc. Intercept : Linear
Wavelength: 276.8 nm
Energy: 100
Slit Width: 0.7
Lamp Current: 6 mA
Sample Info Name: 061006YA.SIF Results Data Set Name: 061006yad

Element: Tl Seq. No.: 1 AS Loc.: 148 Date: 06/10/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1			0.0009	0.0009	0.0022	0.0118	0.0100	03:23:57	Yes

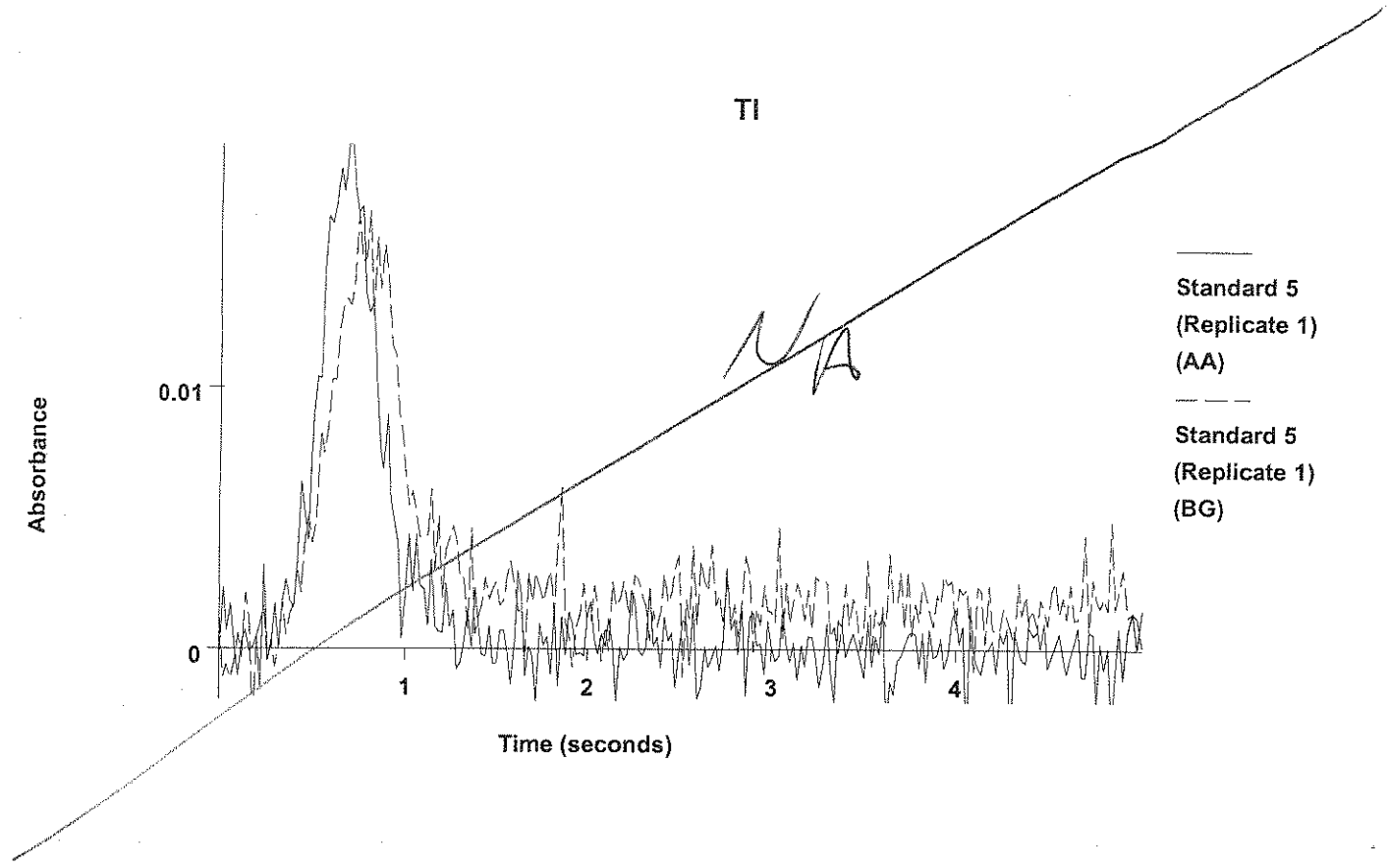


2			0.0002	0.0002	0.0024	0.0108	0.0051	03:26:47	Yes
Mean:			0.0005						
SD :			0.0005						
%RSD:			89.89						

Auto-zero performed.

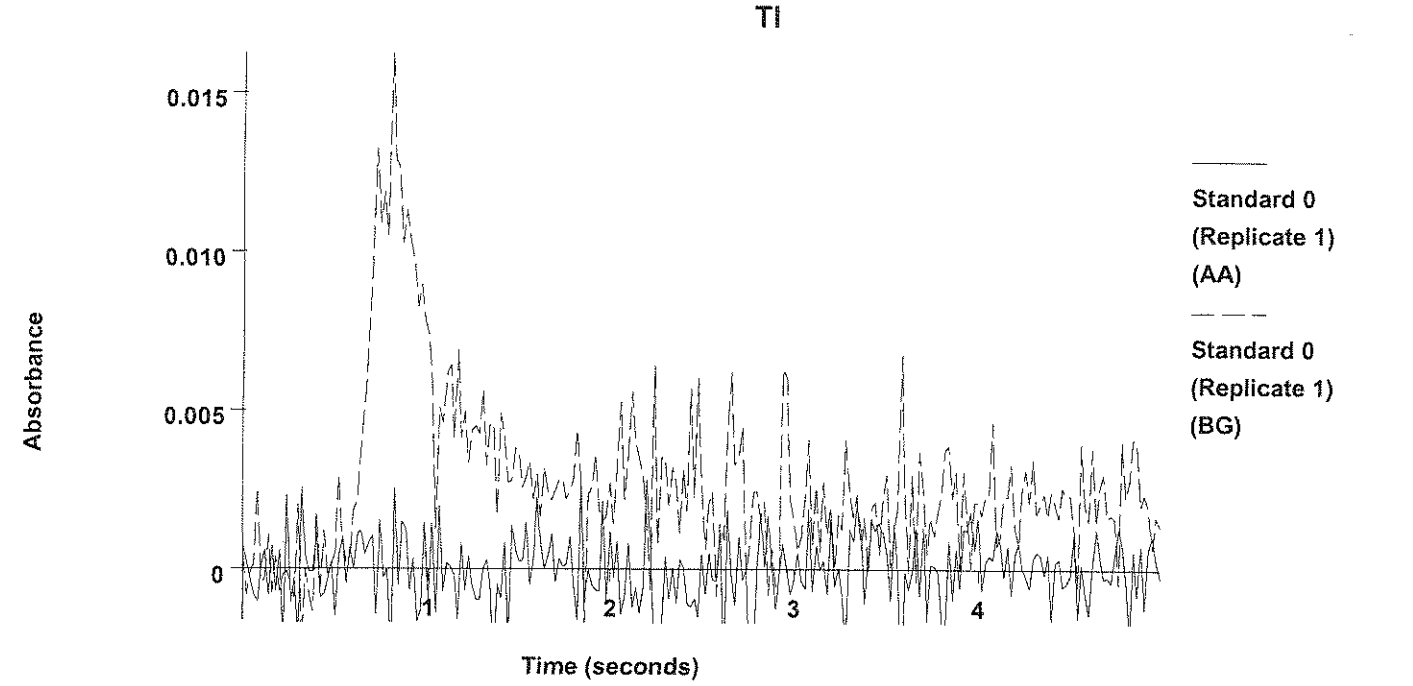
Element: Tl Seq. No.: 2 AS Loc.: 136 Date: 06/10/2006
Sample ID: Standard 2
µL dispensed: 10 from 148, 5 from 147, 15 from 136

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Store
1			0.0032	0.0037	0.0083	0.0101	0.0088	03:30:03	Yes



Element: Tl Seq. No.: 25 AS Loc.: 148 Date: 06/10/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

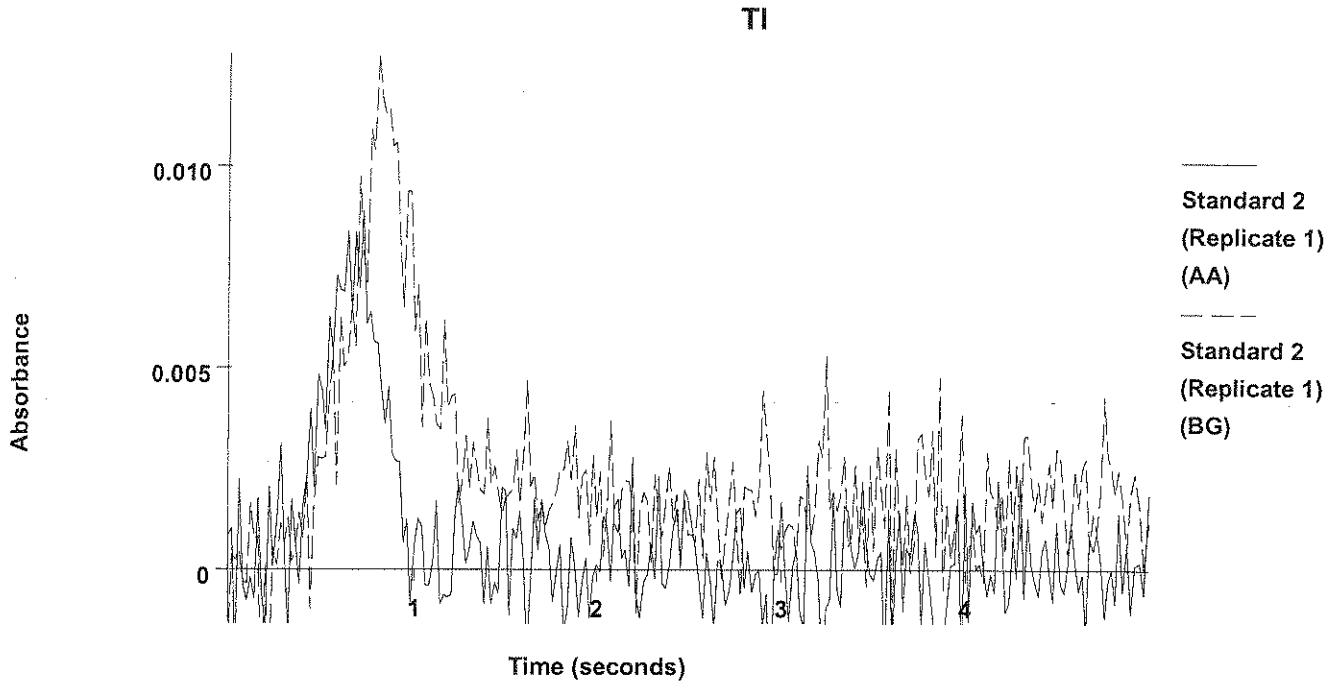
Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			-0.0001	-0.0001	0.0028	0.0139	0.0162	05:48:58	Yes



2			0.0010	0.0010	0.0042	0.0128	0.0121	05:51:48	Yes

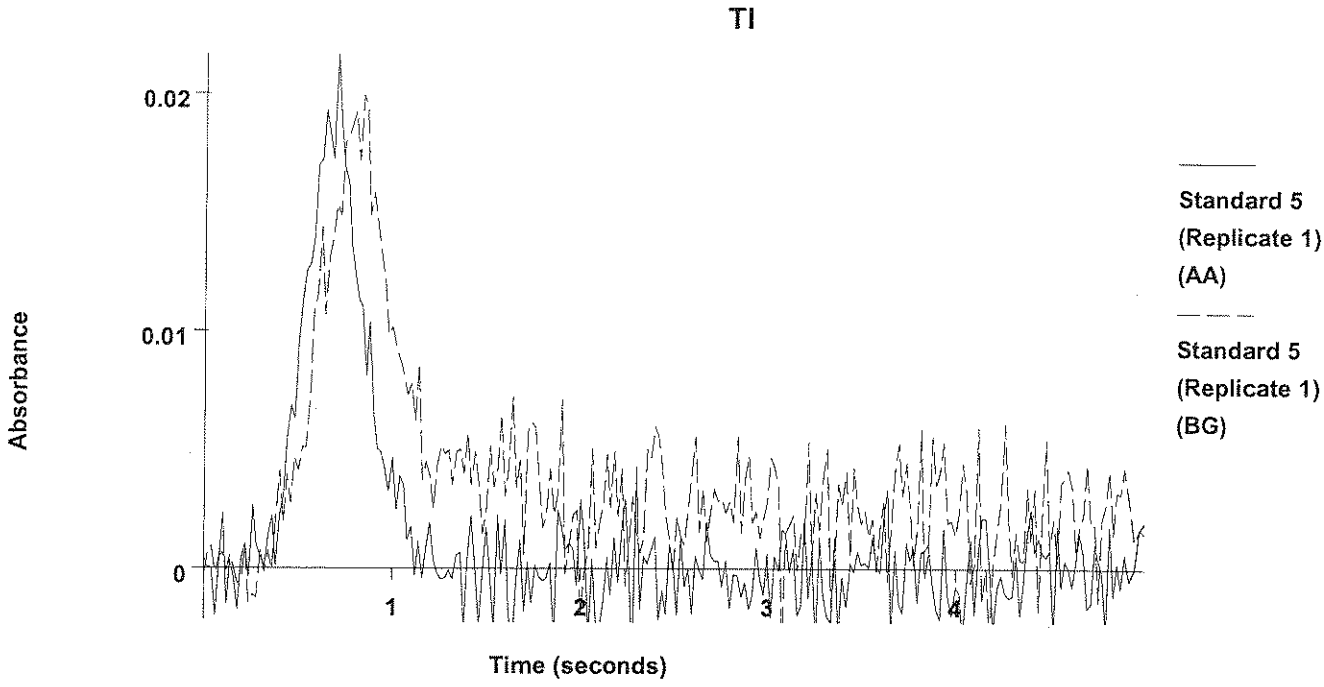
```
Mean:                          0.0005
SD  :                          0.0008
%RSD:                          177.69
Auto-zero performed.

================================================================================
Element: Tl    Seq. No.: 26       AS Loc.: 136   Date: 06/10/2006
Sample ID: Standard 2
µL dispensed:  10 from 148, 5 from 147, 15 from 136
--------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak     Peak     Bkgnd    Bkgnd    Time    Peak
 #                            Signal    Area     Height   Area     Height           Stored
 1                            0.0030    0.0035   0.0089   0.0118   0.0128  05:55:03 Yes
```




```
 2                             0.0035    0.0040   0.0102   0.0110   0.0146  05:57:52 Yes
Mean:                          0.0033
SD  :                          0.0003
%RSD:                          10.12
[Tl] Standard number 1 applied. [2.0]
Correlation Coefficient:  1.00000              Slope: 0.00164
Intercept : 0.00000

================================================================================
Element: Tl    Seq. No.: 27       AS Loc.: 121   Date: 06/10/2006
Sample ID: Standard 5
µL dispensed:  10 from 148, 5 from 147, 15 from 121
--------------------------------------------------------------------------------
Repl   SampleConc  StndConc   BlnkCorr  Peak     Peak     Bkgnd    Bkgnd    Time    Peak
 #     µg/L        µg/L       Signal    Area     Height   Area     Height           Stored
 1                            0.0063    0.0068   0.0217   0.0187   0.0199  06:01:08 Yes
```



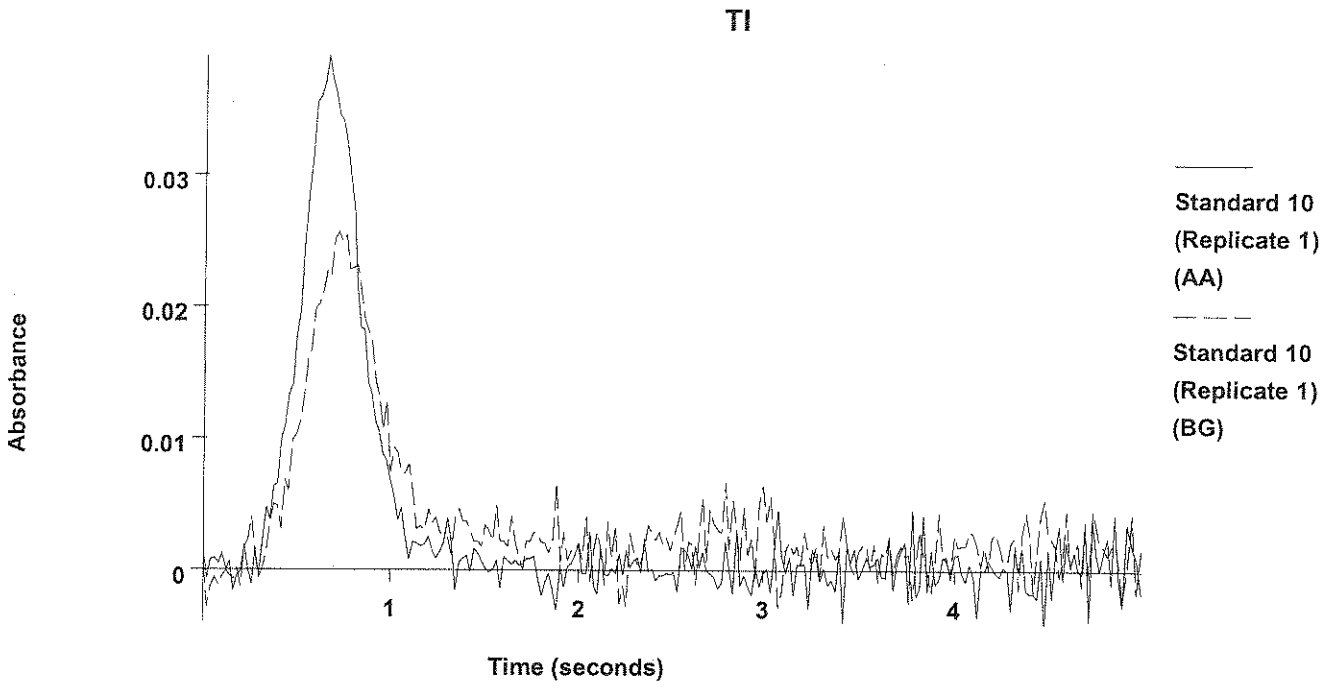
2		0.0071	0.0075	0.0198	0.0183	0.0186	06:04:00	Yes
Mean:		0.0067						
SD :		0.0005						
%RSD:		7.93						

[Tl] Standard number 2 applied. [5.0]
Correlation Coefficient: 0.99474 Slope: 0.00132
Intercept : 0.00024

==========

Element: Tl Seq. No.: 28 AS Loc.: 124 Date: 06/10/2006
Sample ID: Standard 10
µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0152	0.0157	0.0390	0.0187	0.0257	06:07:18	Yes



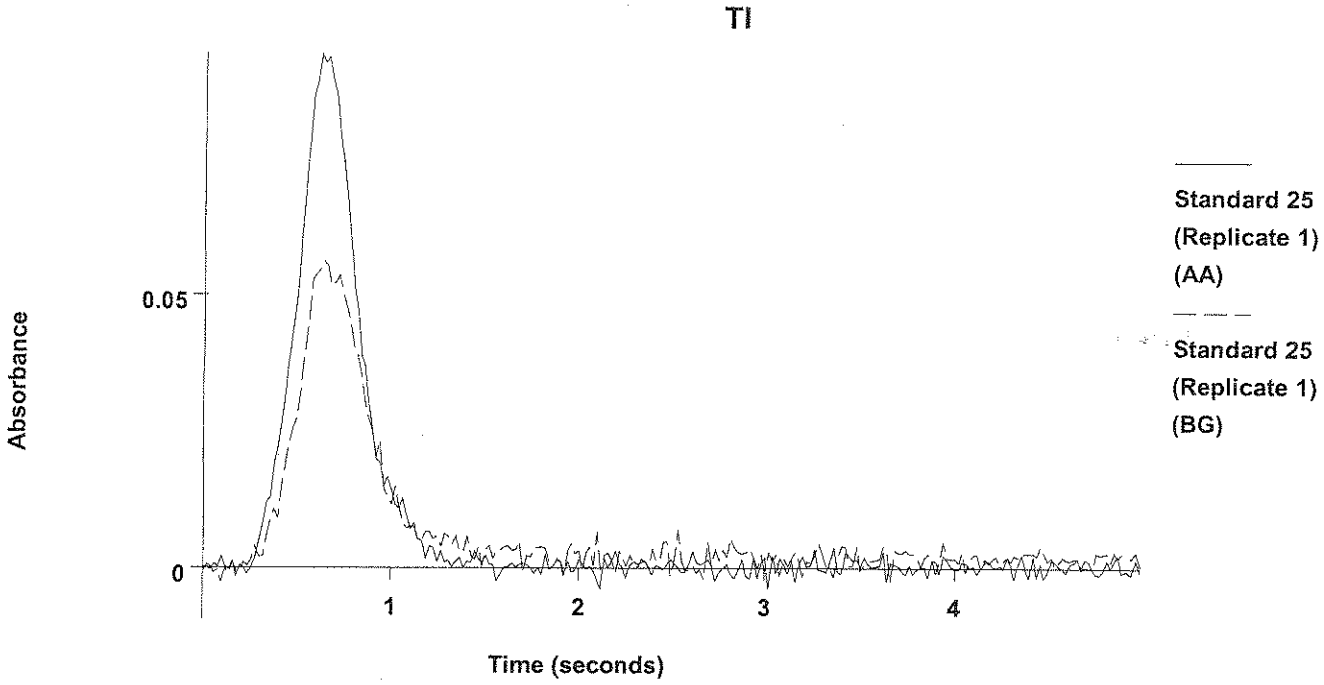
2		0.0150	0.0154	0.0389	0.0213	0.0288	06:10:11	Yes
Mean:		0.0151						
SD :		0.0002						
%RSD:		1.10						

[Tl] Standard number 3 applied. [10.0]
Correlation Coefficient: 0.99728 Slope: 0.00149
Intercept : -0.00006

==========

Element: Tl Seq. No.: 29 AS Loc.: 126 Date: 06/10/2006
Sample ID: Standard 25
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0367	0.0372	0.0941	0.0318	0.0561	06:13:29	Yes

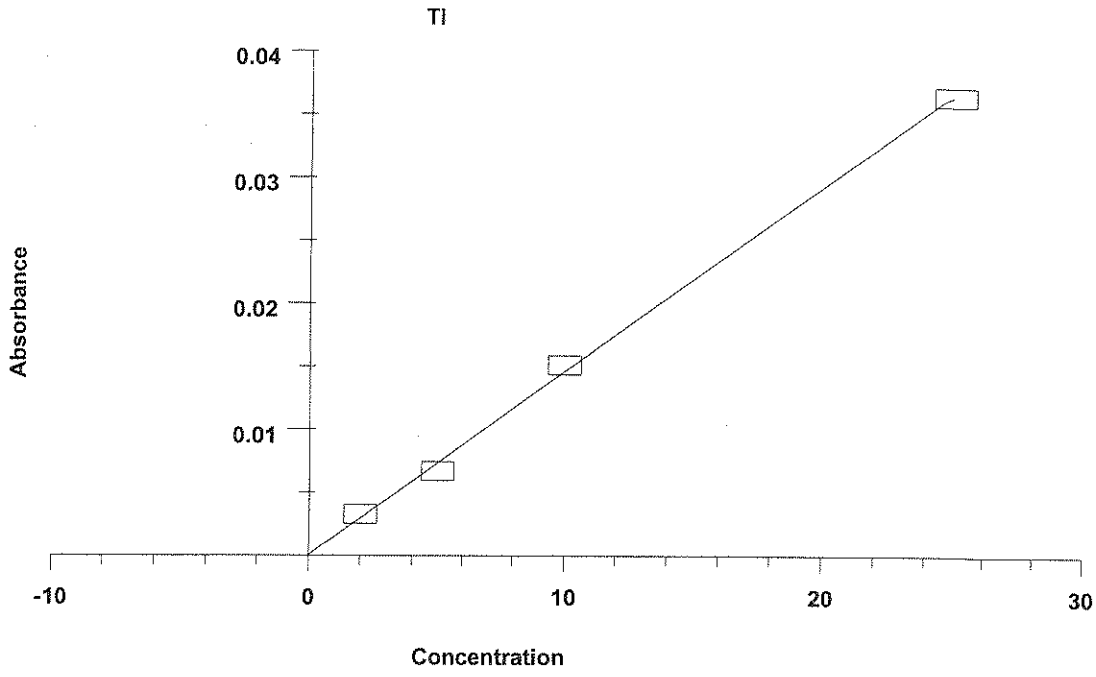



```
 2                              0.0361   0.0365   0.0950   0.0313   0.0578 06:16:22 Yes
Mean:                           0.0364
SD  :                           0.0005
%RSD:                             1.25
[Tl] Standard number 4 applied. [25.0]
Correlation Coefficient:  0.99956                Slope: 0.00146
Intercept : 0.00005
```

Calibration data for Tl

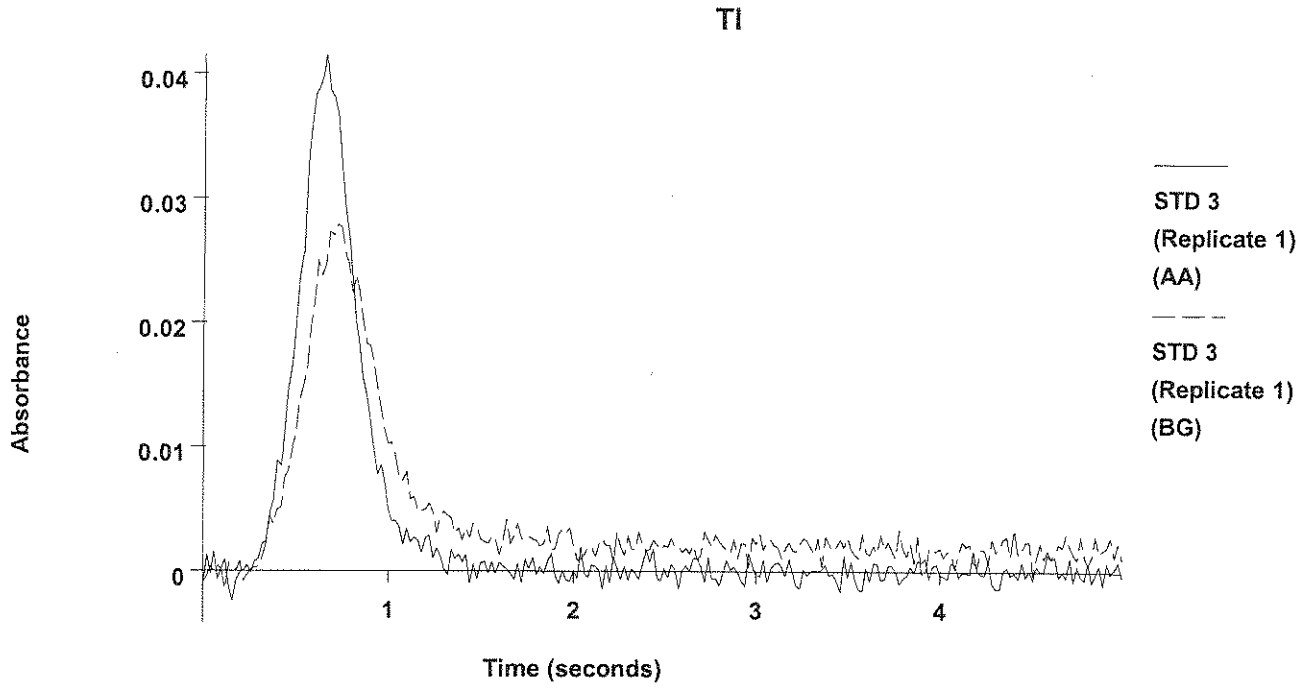
Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0005	-	----	----	----
Standard 2	0.0033	2.0	2.2	0.00	10.12
Standard 5	0.0067	5.0	4.6	0.00	7.93
Standard 10	0.0151	10.0	10.3	0.00	1.10
Standard 25	0.0364	25.0	24.9	0.00	1.25

Correlation Coefficient: 0.99956 Slope: 0.00146 Intercept: 0.0001



Element: Tl Seq. No.: 30 AS Loc.: 124 Date: 06/10/2006
Sample ID: STD 3
µL dispensed: 10 from 148, 5 from 147, 15 from 124

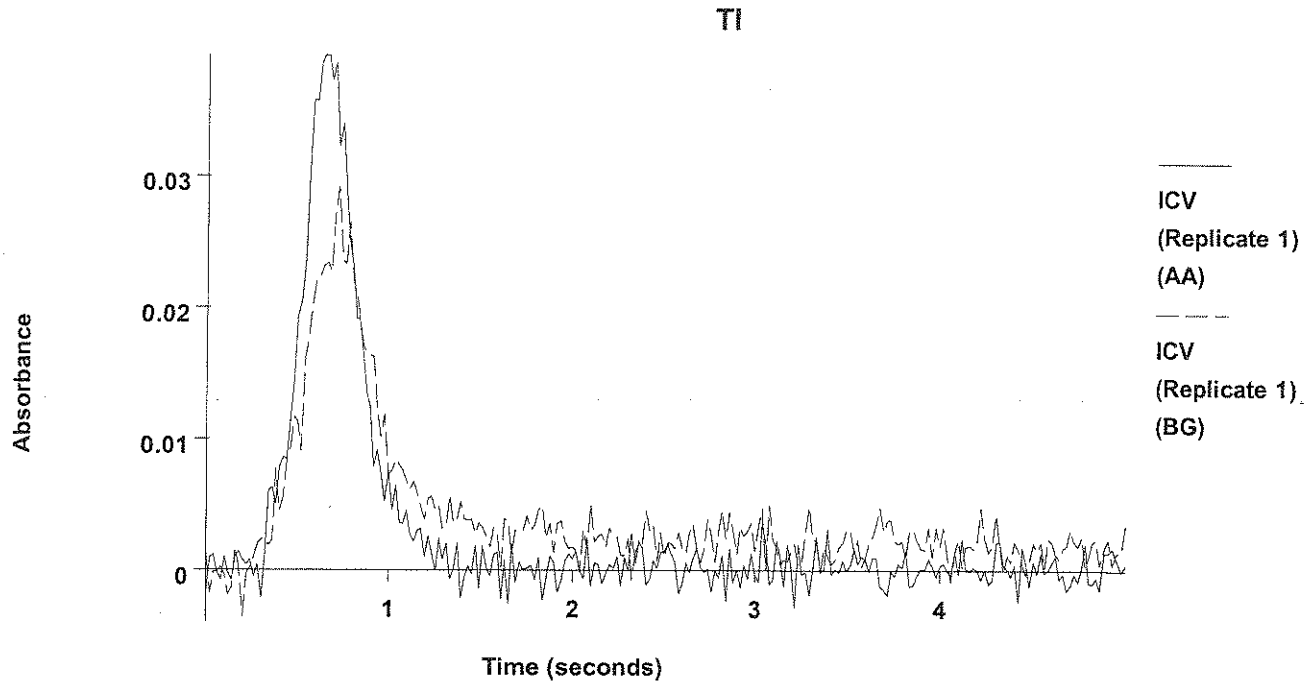
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	10.1	10.1	0.0148	0.0152	0.0415	0.0207	0.0278	06:19:20	Yes



2	9.6	9.6	0.0140	0.0145	0.0393	0.0219	0.0255	06:22:13	Yes

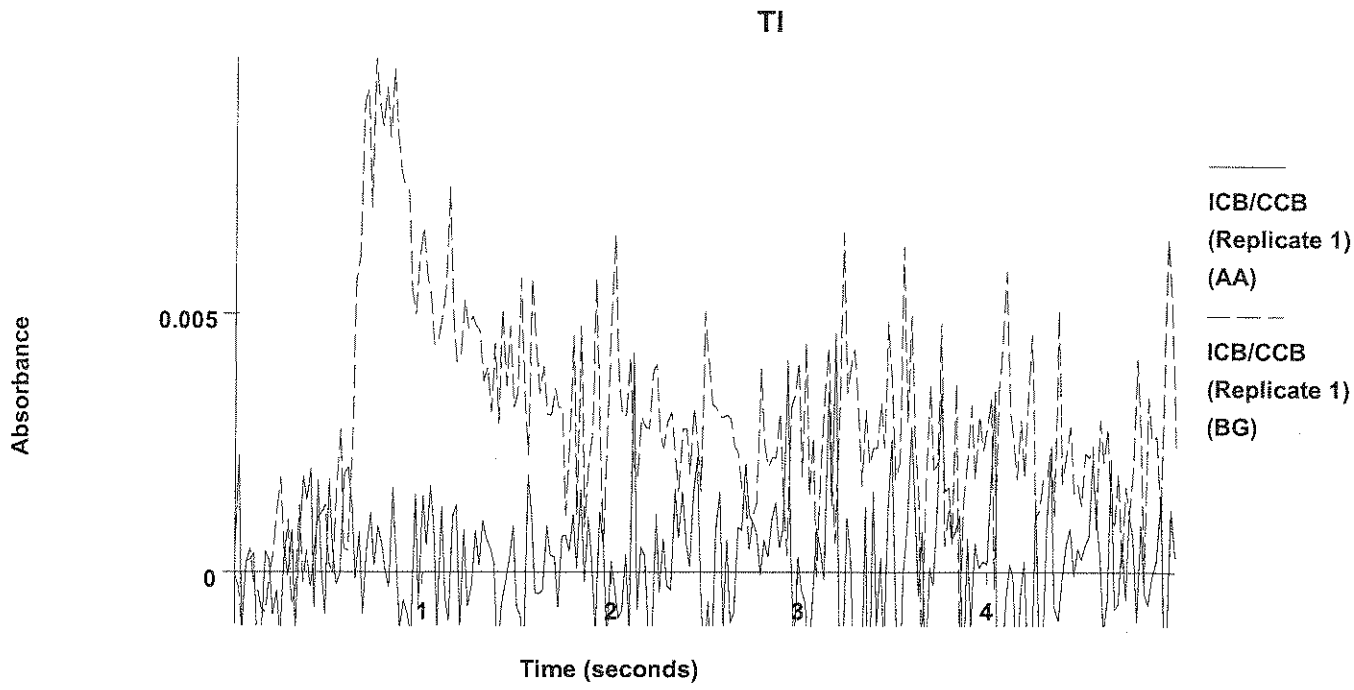
```
Mean:        9.8        9.8     0.0144
SD  :       0.35       0.35     0.0005
%RSD:       3.52       3.52       3.51
QC value within specified limits.
```

```
================================================================================
Element: Tl     Seq. No.: 31        AS Loc.: 139    Date: 06/10/2006
Sample ID: ICV
µL dispensed:  10 from 148, 5 from 147, 15 from 139
--------------------------------------------------------------------------------
Repl    SampleConc  StndConc    BlnkCorr  Peak      Peak      Bkgnd     Bkgnd    Time    Peak
 #      µg/L        µg/L        Signal    Area      Height    Area      Height             Stored
 1          10.2        10.2    0.0149    0.0154    0.0392    0.0209    0.0292  06:25:05 Yes
```




```
 2          9.7        9.7     0.0142    0.0147    0.0399    0.0190    0.0251 06:27:56 Yes
Mean:      10.0       10.0     0.0146
SD  :       0.34       0.34    0.0005
%RSD:       3.40       3.40       3.39
QC value within specified limits.
```

```
================================================================================
Element: Tl     Seq. No.: 32        AS Loc.: 148    Date: 06/10/2006
Sample ID: ICB/CCB
µL dispensed:  10 from 148, 5 from 147, 15 from 148
--------------------------------------------------------------------------------
Repl    SampleConc  StndConc    BlnkCorr  Peak      Peak      Bkgnd     Bkgnd    Time    Peak
 #      µg/L        µg/L        Signal    Area      Height    Area      Height             Stored
 1           0.4         0.4    0.0006    0.0010    0.0046    0.0148    0.0099 06:30:47 Yes
```



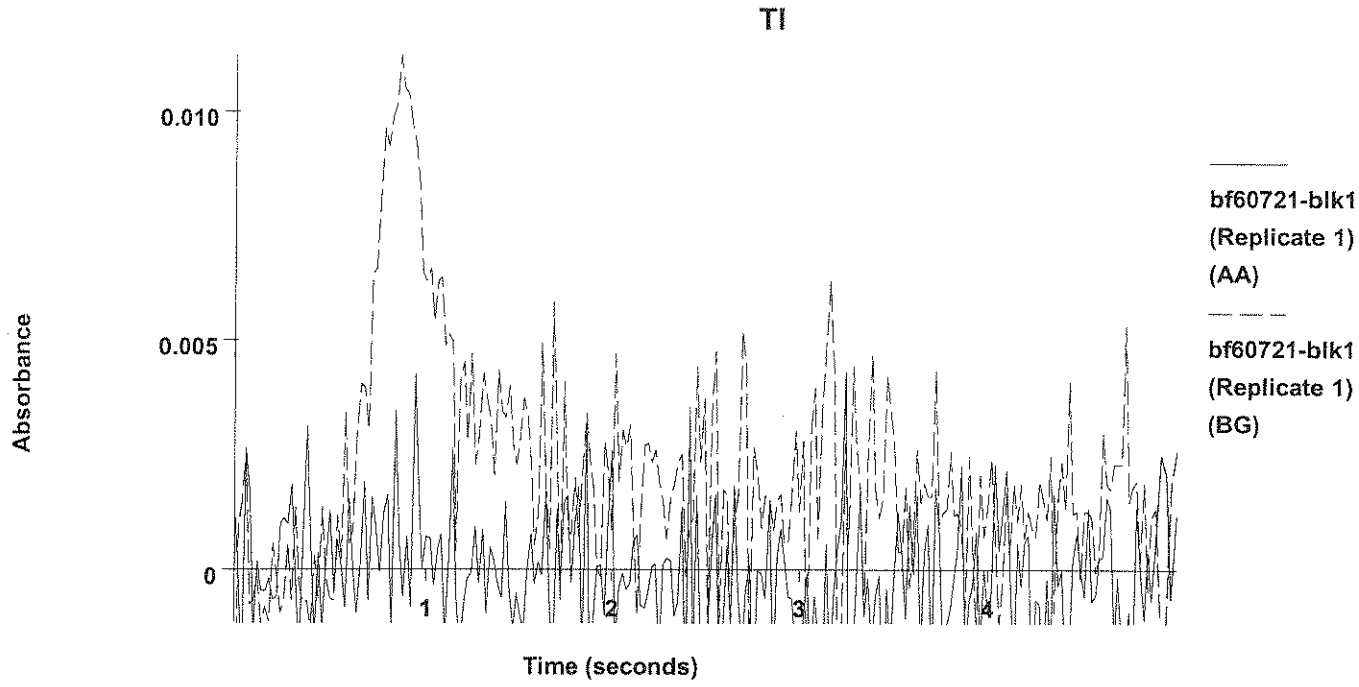
2	0.4	0.4	0.0006	0.0010	0.0039	0.0129	0.0108	06:33:39 Yes
Mean:	0.4	0.4	0.0006					
SD :	0.01	0.01	0.0000					
%RSD:	1.44	1.44	1.31					

QC value within specified limits.

==========

Element: Tl Seq. No.: 33 AS Loc.: 1 Date: 06/10/2006
Sample ID: bf60721-blk1
µL dispensed: 10 from 148, 5 from 147, 15 from 1

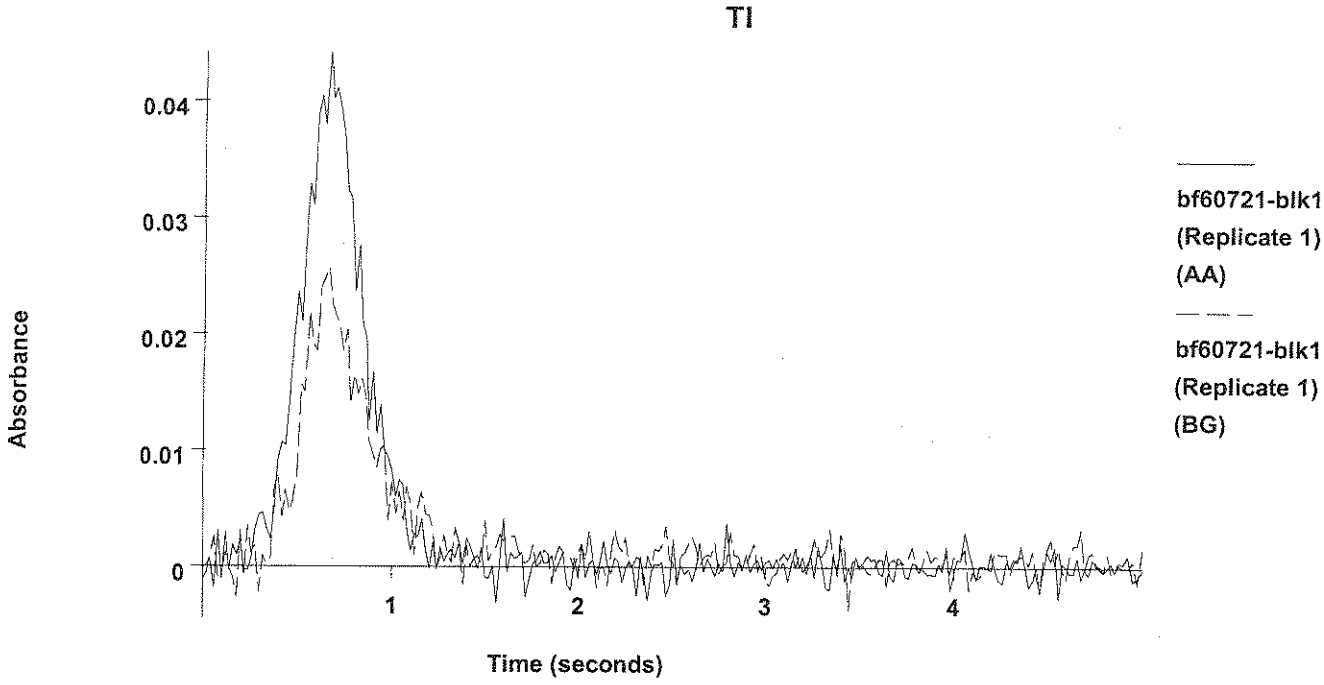
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0009	-0.0004	0.0043	0.0107	0.0112	06:36:28	Yes



2	-0.5	-0.5	-0.0006	-0.0002	0.0041	0.0136	0.0118	06:39:19 Yes
Mean:	-0.5	-0.5	-0.0007					
SD :	0.13	0.13	0.0002					
%RSD:	23.45	23.45	25.11					

Element: Tl Seq. No.: 34 AS Loc.: 1 Date: 06/10/2006
Sample ID: bf60721-blk1
µL dispensed: 7 from 148, 5 from 147, 3 from 131, 15 from 1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	11.3	11.3	0.0165	0.0170	0.0442	0.0128	0.0257	06:42:18	Yes



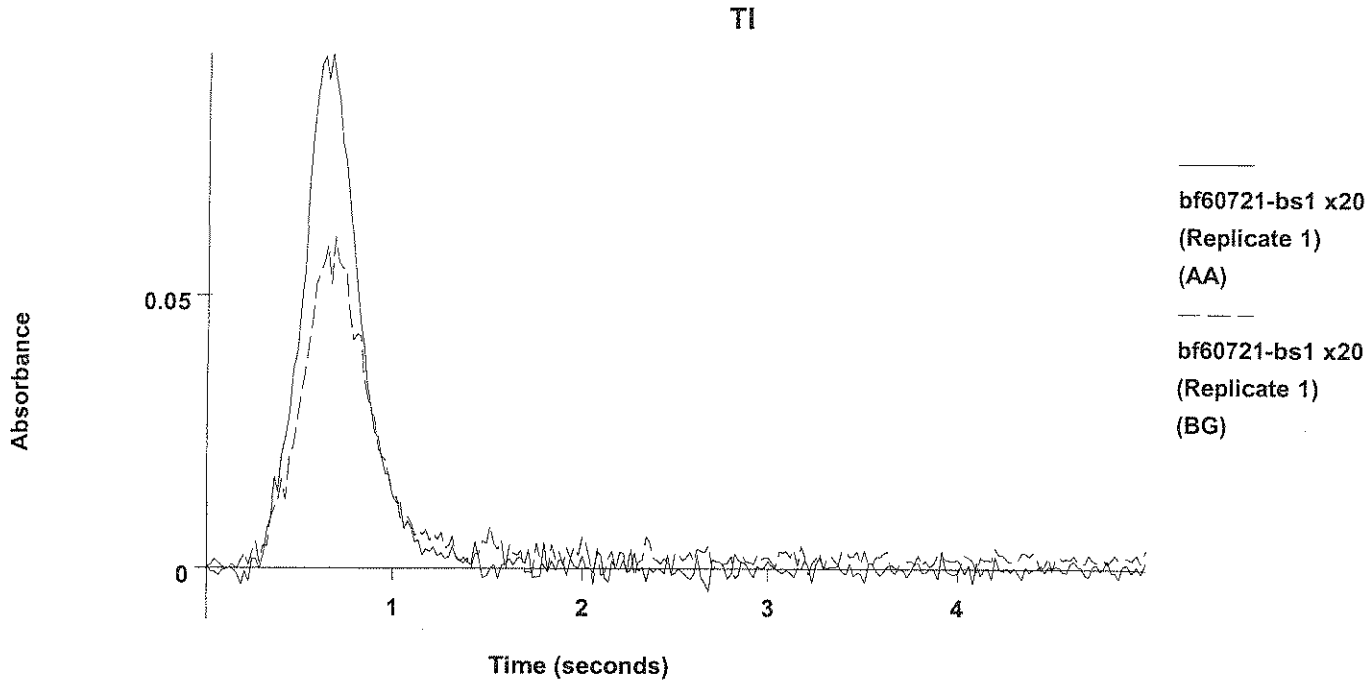
2	11.4	11.4	0.0167	0.0171	0.0506	0.0213	0.0320	06:45:18 Yes
Mean:	11.4	11.4	0.0166					
SD :	0.07	0.07	0.0001					
%RSD:	0.60	0.60	0.59					

Recovery for Tl = 113.6 % within 85 % to 115 %

==========

Element: Tl Seq. No.: 35 AS Loc.: 2 Date: 06/10/2006
Sample ID: bf60721-bs1 x20
µL dispensed: 10 from 148, 5 from 147, 15 from 2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.1	24.1	0.0351	0.0356	0.0942	0.0332	0.0607	06:48:08	Yes

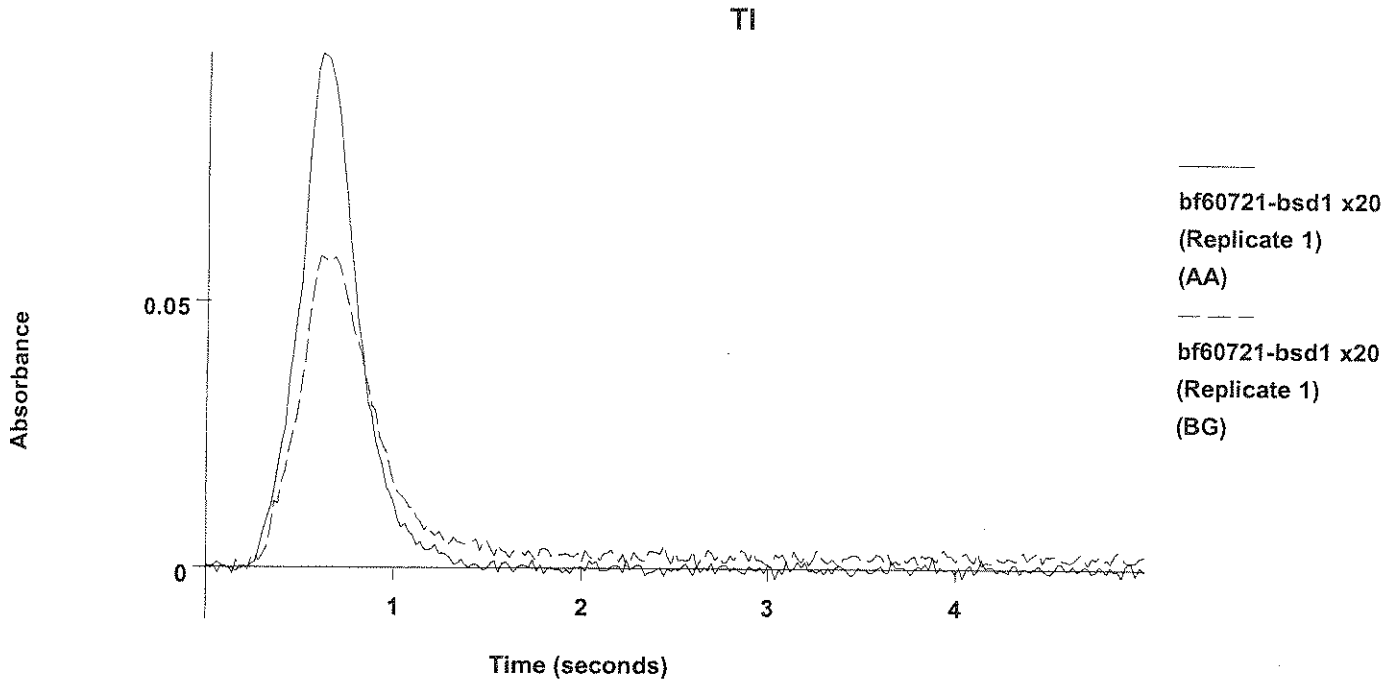


2	24.3	24.3	0.0354	0.0358	0.0964	0.0340	0.0588	06:50:58 Yes
Mean:	24.2	24.2	0.0353					
SD :	0.11	0.11	0.0002					
%RSD:	0.46	0.46	0.46					

97.1

Element: Tl Seq. No.: 36 AS Loc.: 3 Date: 06/10/2006
Sample ID: bf60721-bsd1 x20
µL dispensed: 10 from 148, 5 from 147, 15 from 3

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.4	24.4	0.0356	0.0360	0.0964	0.0359	0.0585	06:53:48	Yes

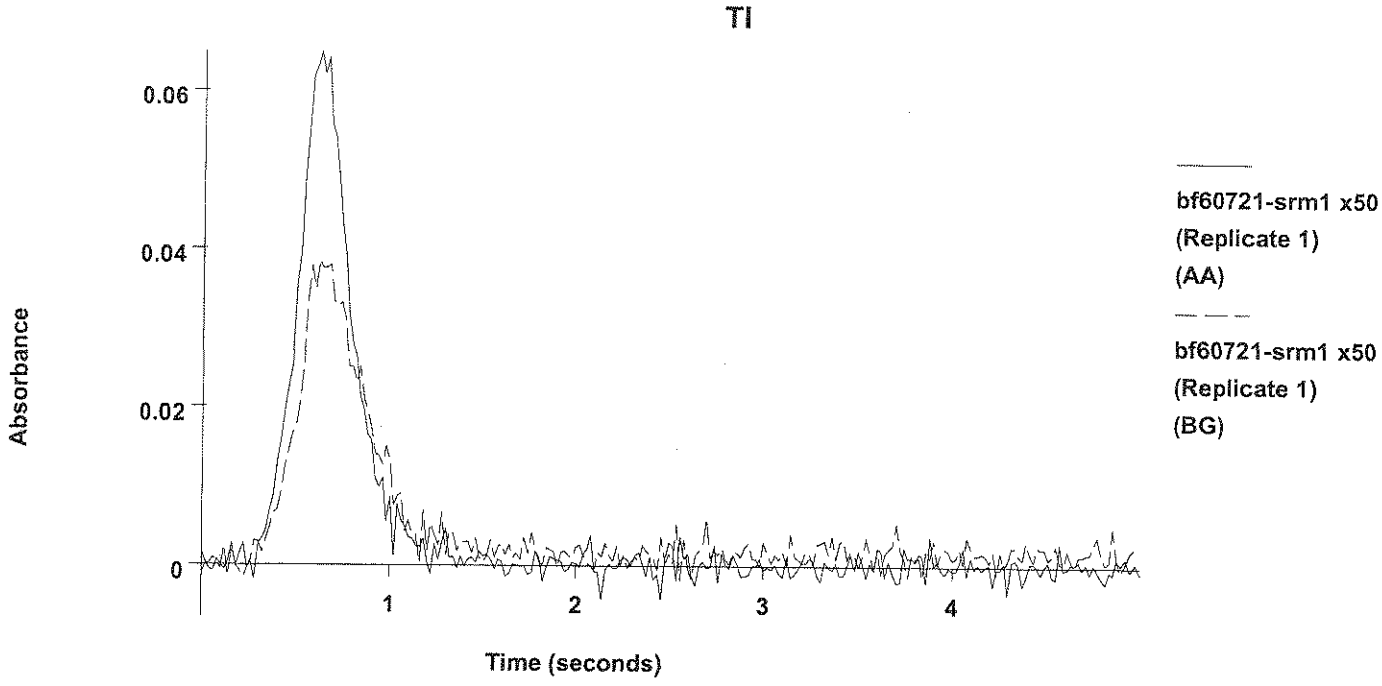


2	24.2	24.2	0.0353	0.0358	0.0936	0.0310	0.0552	06:56:39 Yes
Mean:	24.3	24.3	0.0355					
SD :	0.12	0.12	0.0002					
%RSD:	0.50	0.50	0.50					

97%

Element: Tl Seq. No.: 37 AS Loc.: 4 Date: 06/10/2006
Sample ID: bf60721-srm1 x50
µL dispensed: 10 from 148, 5 from 147, 15 from 4

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	15.2	15.2	0.0222	0.0226	0.0649	0.0225	0.0385	06:59:29	Yes



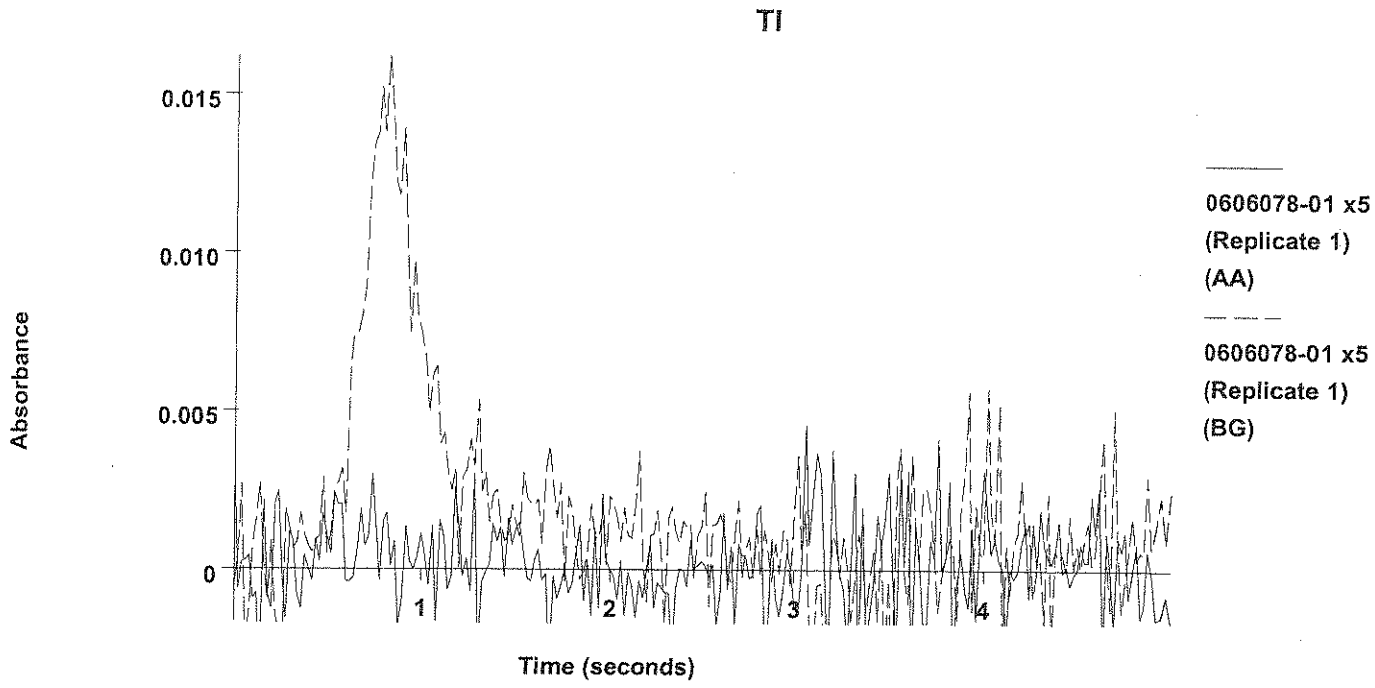
2	13.9	13.9	0.0203	0.0208	0.0603	0.0250	0.0366	07:02:19 Yes
Mean:	14.5	14.5	0.0212					
SD :	0.90	0.90	0.0013					
%RSD:	6.17	6.17	6.15					

$\frac{14.5(50)100}{1} / 1000 = 72.5$

==========

Element: Tl Seq. No.: 38 AS Loc.: 5 Date: 06/10/2006
Sample ID: 0606078-01 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 5

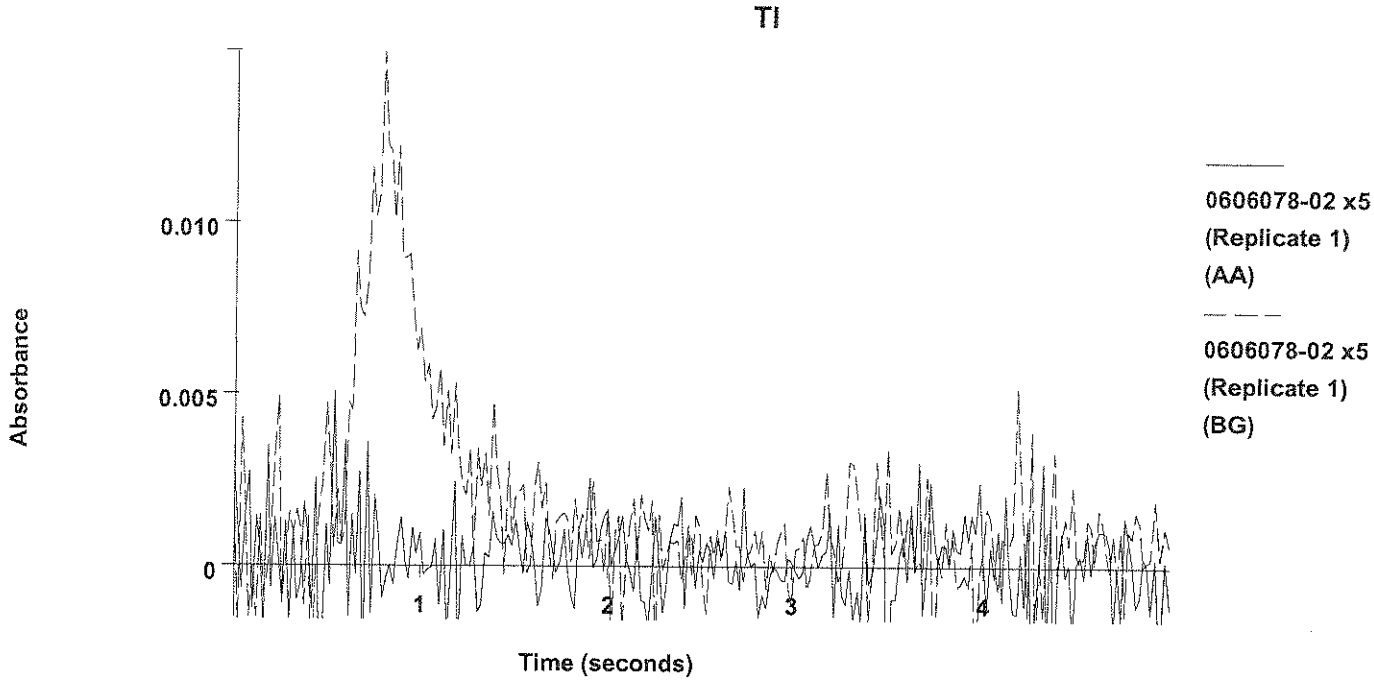
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0006	0.0010	0.0046	0.0095	0.0162	07:05:10	Yes



2	-0.1	-0.1	0.0000	0.0004	0.0029	0.0116	0.0164	07:08:01 Yes
Mean:	0.2	0.2	0.0003					
SD :	0.30	0.30	0.0004					
%RSD:	200.0	200.0	161.41					

Element: Tl Seq. No.: 39 AS Loc.: 6 Date: 06/10/2006
Sample ID: 0606078-02 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 6

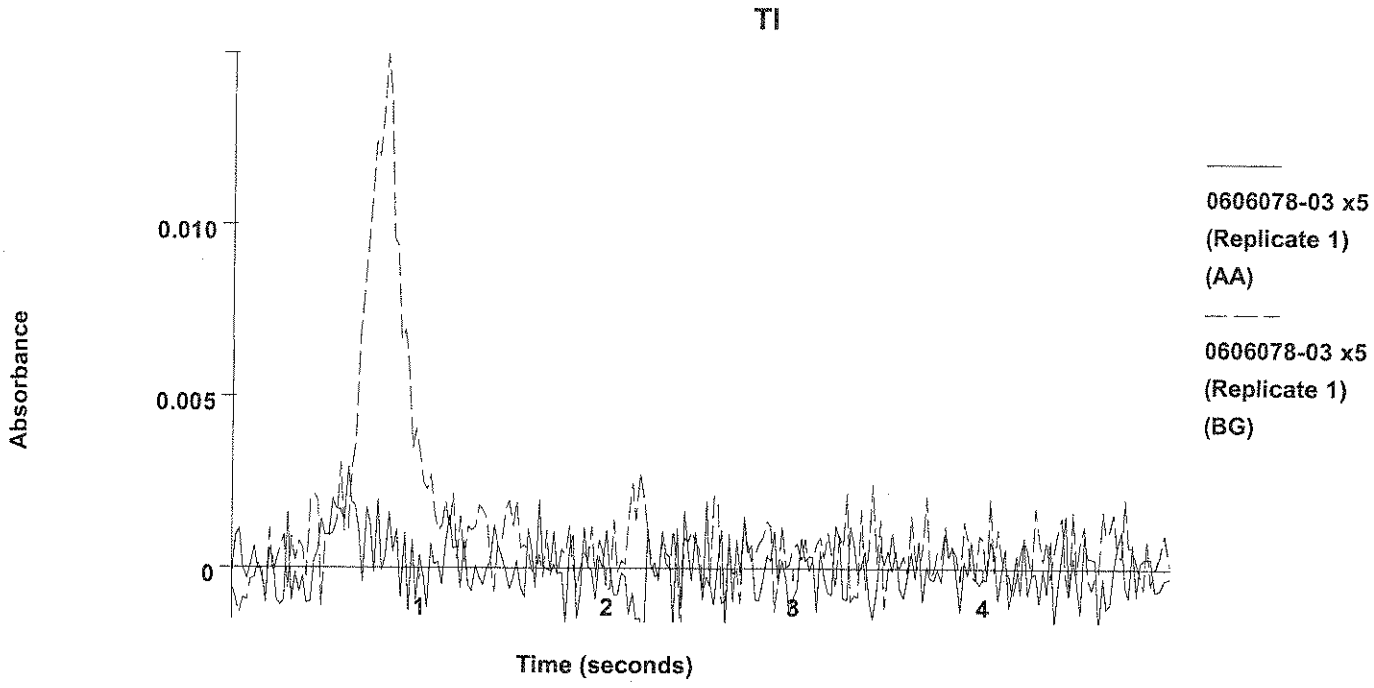
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0006	0.0010	0.0051	0.0083	0.0150	07:10:52	Yes



2	-0.7	-0.7	-0.0010	-0.0005	0.0025	0.0105	0.0145 07:13:43	Yes
Mean:	-0.2	-0.2	-0.0002					
SD :	0.76	0.76	0.0011					
%RSD:	417.1	417.1	520.31					

Element: Tl Seq. No.: 40 AS Loc.: 7 Date: 06/10/2006
Sample ID: 0606078-03 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 7

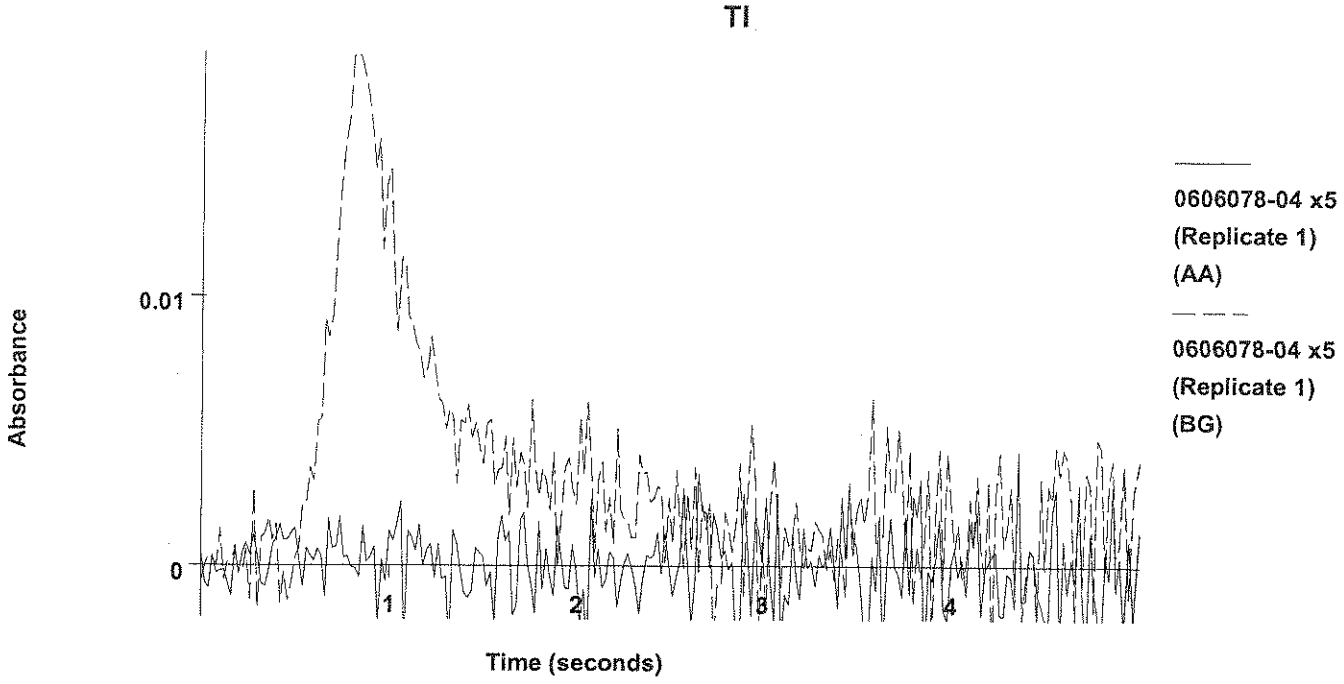
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0002	0.0002	0.0029	0.0056	0.0150	07:16:34	Yes



2	0.6	0.6	0.0010	0.0014	0.0038	0.0067	0.0145 07:19:26	Yes
Mean:	0.2	0.2	0.0004					
SD :	0.58	0.58	0.0009					
%RSD:	273.6	273.6	234.00					

Element: Tl Seq. No.: 41 AS Loc.: 8 Date: 06/10/2006
Sample ID: 0606078-04 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 8

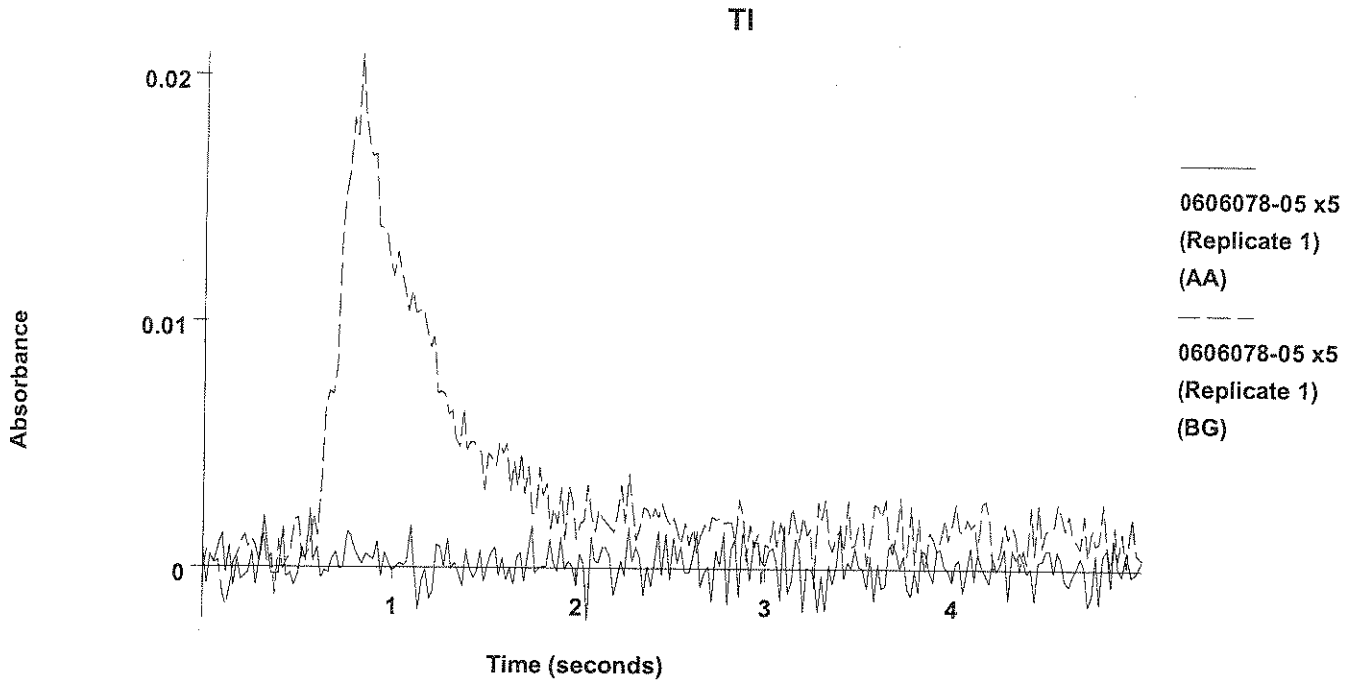
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0002	0.0002	0.0038	0.0161	0.0191	07:22:17	Yes



2	0.4	0.4	0.0006	0.0011	0.0025	0.0144	0.0191	07:25:09 Yes
Mean:	0.1	0.1	0.0002					
SD :	0.41	0.41	0.0006					
%RSD:	406.6	406.6	298.80					

Element: Tl Seq. No.: 42 AS Loc.: 9 Date: 06/10/2006
Sample ID: 0606078-05 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 9

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0003	0.0007	0.0023	0.0159	0.0208	07:28:00	Yes

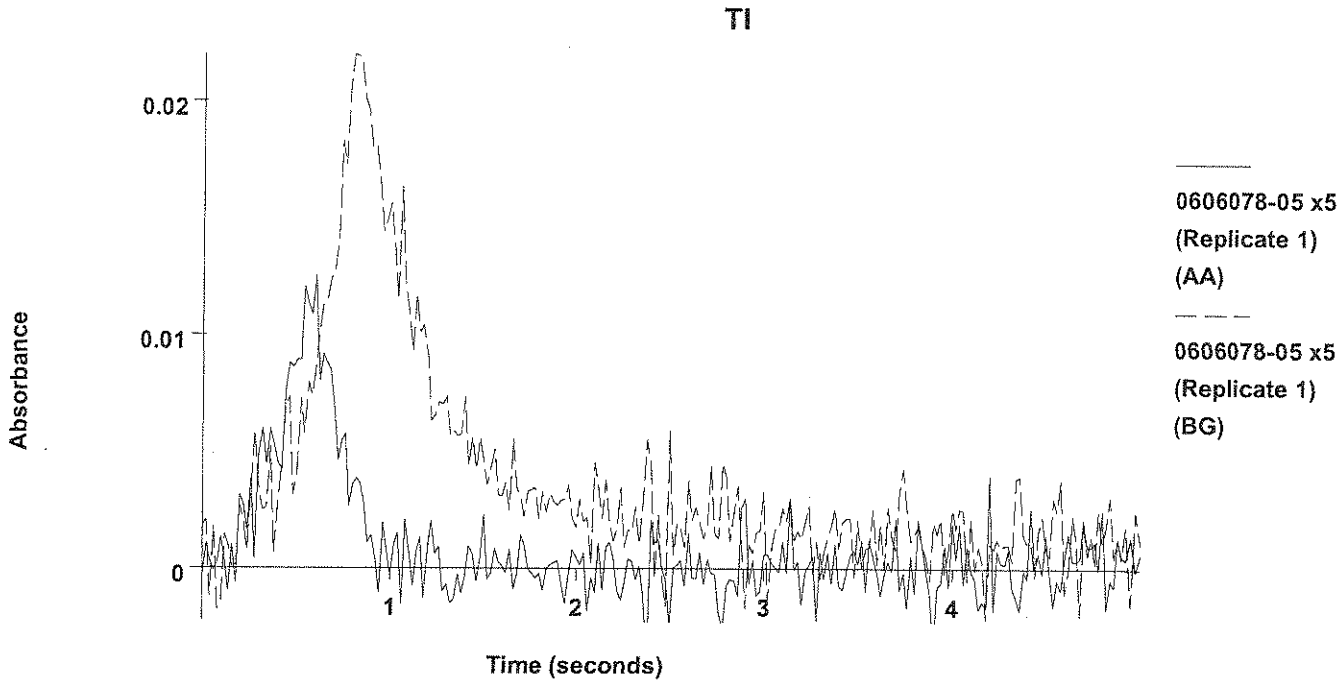


2	-1.5	-1.5	-0.0021	-0.0016	0.0033	0.0178	0.0201	07:30:53	Yes
Mean:	-0.6	-0.6	-0.0009						
SD :	1.14	1.14	0.0017						
%RSD:	175.6	175.6	185.96						

MD

Element: Tl Seq. No.: 43 AS Loc.: 9 Date: 06/10/2006
Sample ID: 0606078-05 x5
µL dispensed: 7 from 148, 5 from 147, 3 from 131, 15 from 9

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.8	2.8	0.0041	0.0045	0.0125	0.0190	0.0220	07:33:52	Yes



2	2.8	2.8	0.0041	0.0046	0.0131	0.0189	0.0220	07:36:51 Yes
Mean:	2.8	2.8	0.0041					
SD :	0.03	0.03	0.0000					
%RSD:	1.04	1.04	1.03					

Recovery for Tl = 27.8 %, less than lower limit of 85 %

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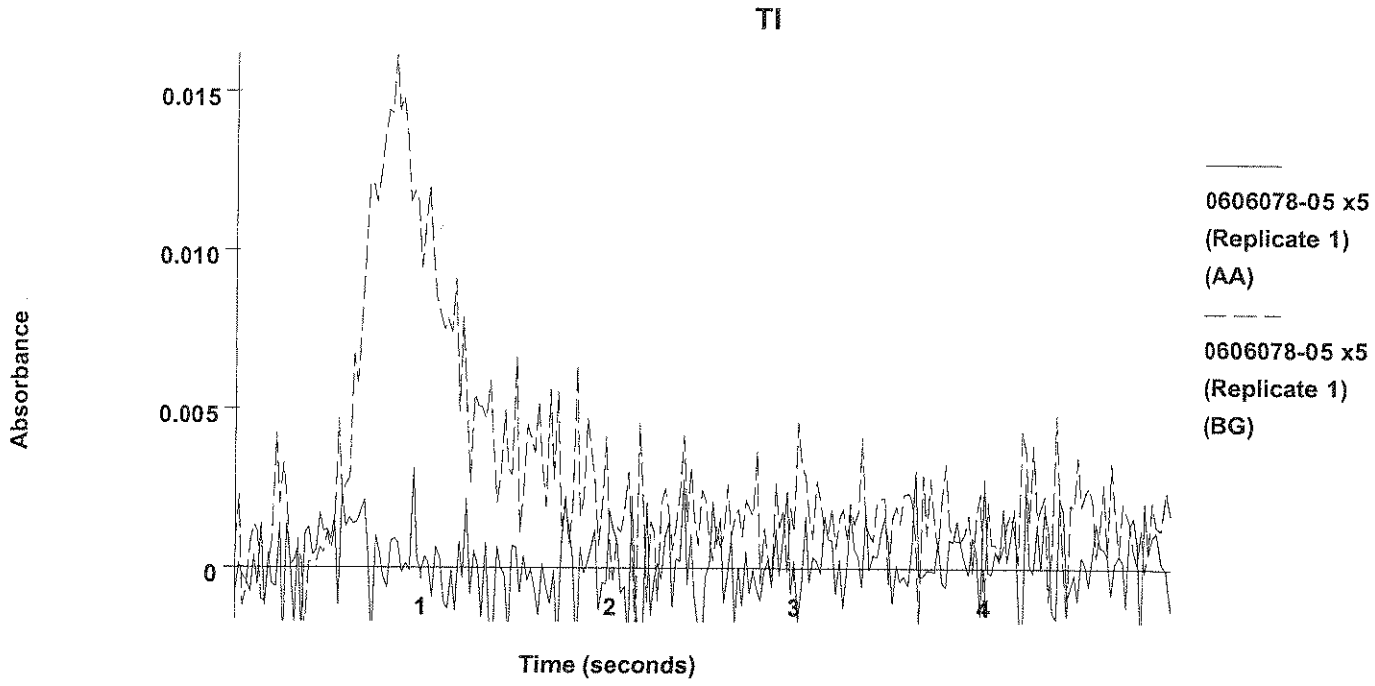
Element: Tl Seq. No.: 44 AS Loc.: 9 Date: 06/10/2006
Sample ID: 0606078-05 x5
µL dispensed: 20 from 148, 5 from 147, 5 from 9

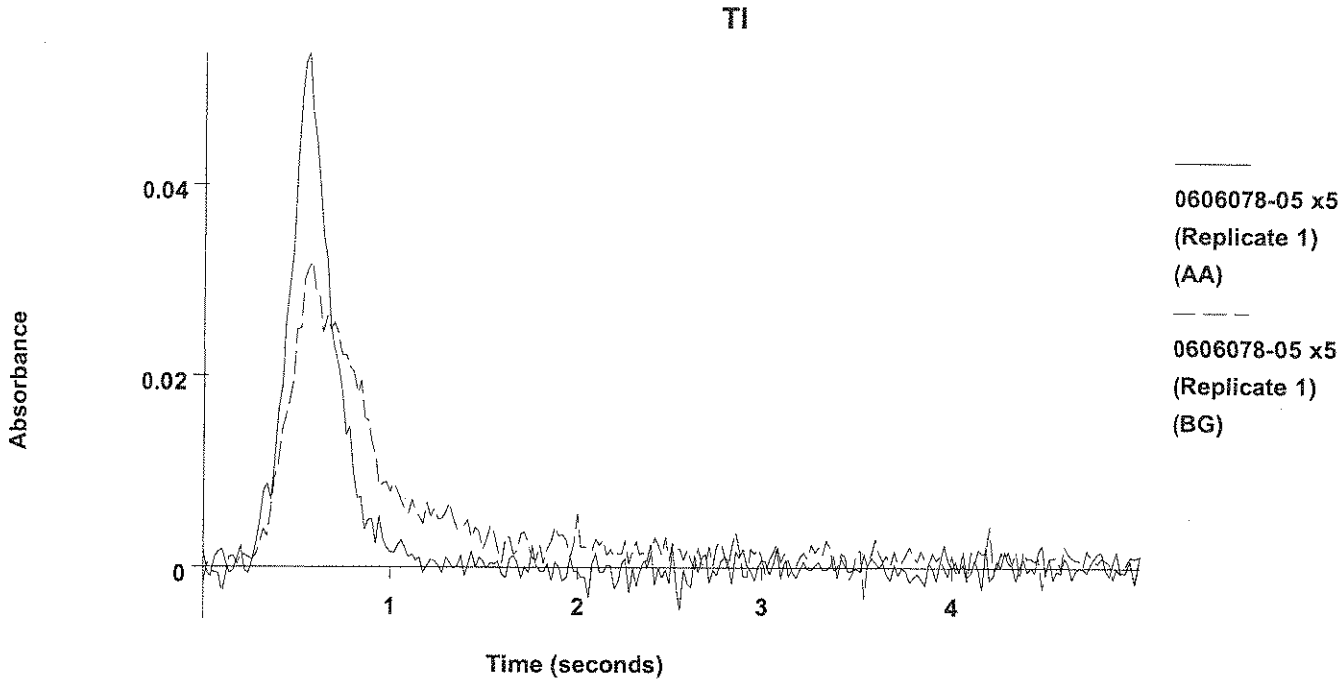
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.6	0.2	0.0003	0.0008	0.0031	0.0142	0.0162	07:39:42	Yes



2	-1.2	-0.4	-0.0005	-0.0001	0.0033	0.0135	0.0194	07:42:35 Yes
Mean:	-0.3	-0.1	-0.0001					
SD :	1.22	0.41	0.0006					
%RSD:	408.6	408.6	642.97					

Element: Tl Seq. No.: 45 AS Loc.: 9 Date: 06/10/2006
Sample ID: 0606078-05 x5
µL dispensed: 17 from 148, 5 from 147, 3 from 131, 5 from 9

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	29.8	9.9	0.0145	0.0150	0.0537	0.0201	0.0319	07:45:34	Yes

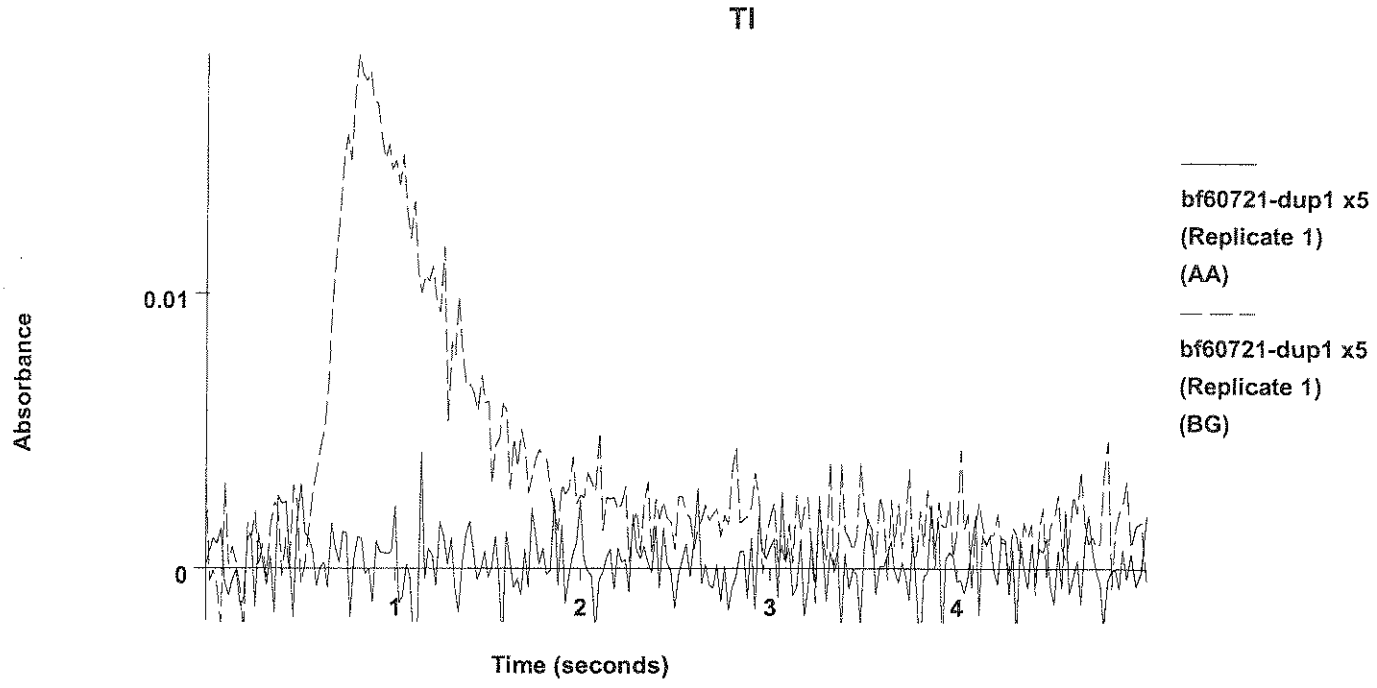


2	28.4	9.5	0.0138	0.0143	0.0537	0.0193	0.0313	07:48:34 Yes
Mean:	29.1	9.7	0.0142					
SD :	1.01	0.34	0.0005					
%RSD:	3.47	3.47	3.46					

Recovery for Tl = 97.0 % within 85 % to 115 %

Element: Tl Seq. No.: 46 AS Loc.: 10 Date: 06/10/2006
Sample ID: bf60721-dup1 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 10

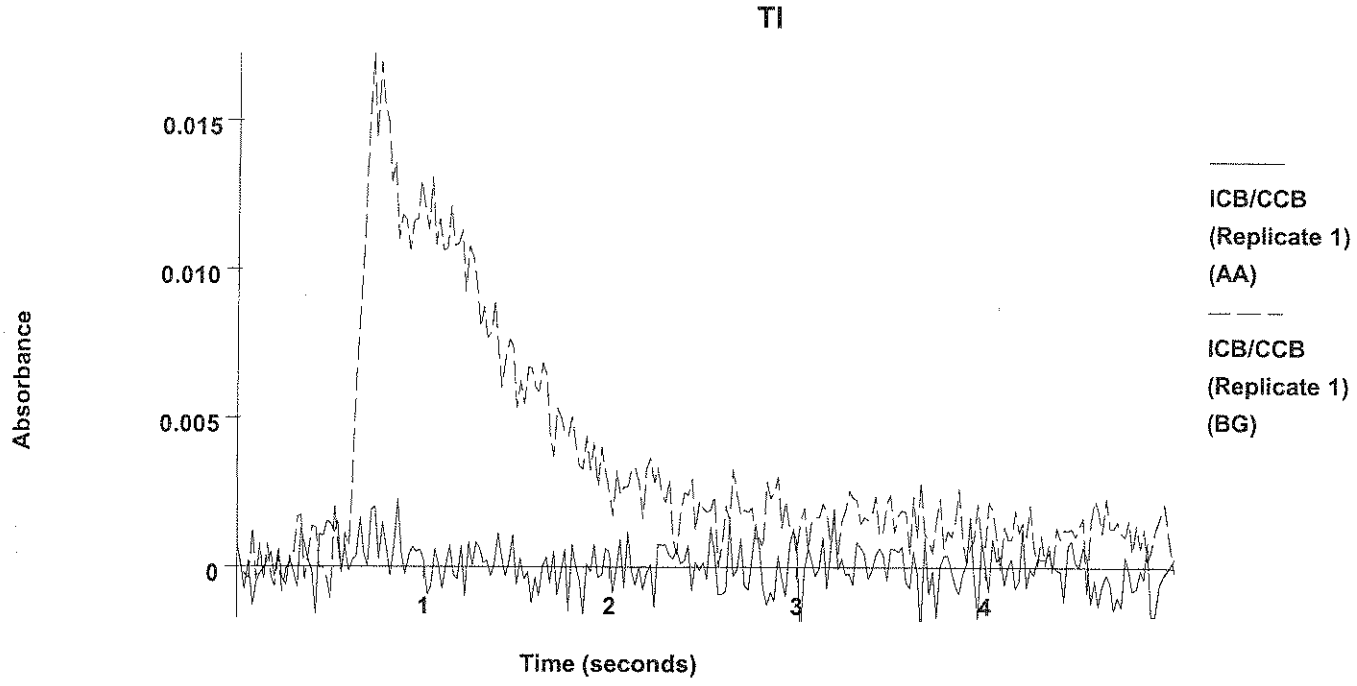
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.3	0.3	0.0005	0.0009	0.0042	0.0179	0.0187	07:51:26	Yes



2	-0.5	-0.5	-0.0007	-0.0002	0.0034	0.0164	0.0184	07:54:18 Yes
Mean:	-0.1	-0.1	-0.0001					
SD :	0.56	0.56	0.0008					
%RSD:	564.5	564.5	884.40					

Element: Tl Seq. No.: 47 AS Loc.: 124 Date: 06/10/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	9.7	9.7	0.0141	0.0146	0.0361	0.0206	0.0257	07:57:11	Yes

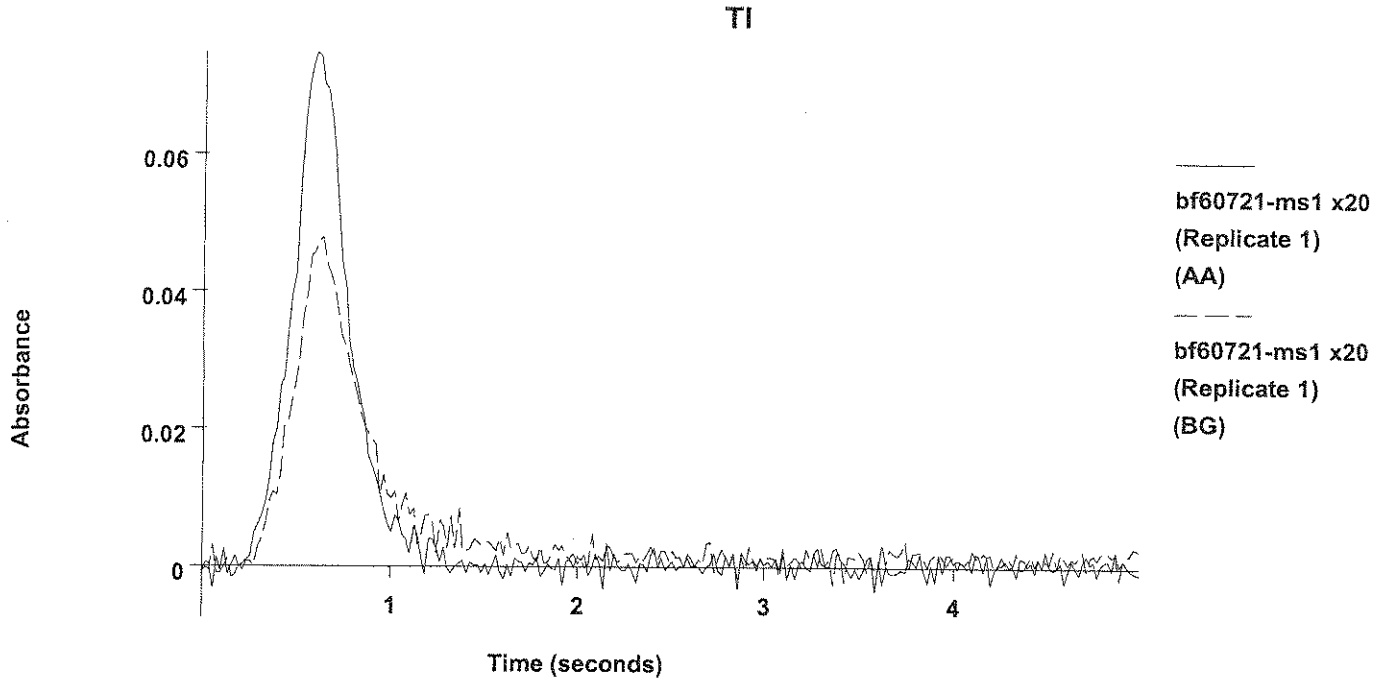


2	-0.2	-0.2	-0.0003	0.0001	0.0022	0.0157	0.0158	08:05:45 Yes
Mean:	-0.2	-0.2	-0.0003					
SD :	0.03	0.03	0.0000					
%RSD:	14.33	14.33	17.12					

QC value within specified limits.

Element: Tl Seq. No.: 49 AS Loc.: 11 Date: 06/10/2006
Sample ID: bf60721-ms1 x20
µL dispensed: 10 from 148, 5 from 147, 15 from 11

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	18.5	18.5	0.0270	0.0275	0.0747	0.0256	0.0479	08:08:35	Yes

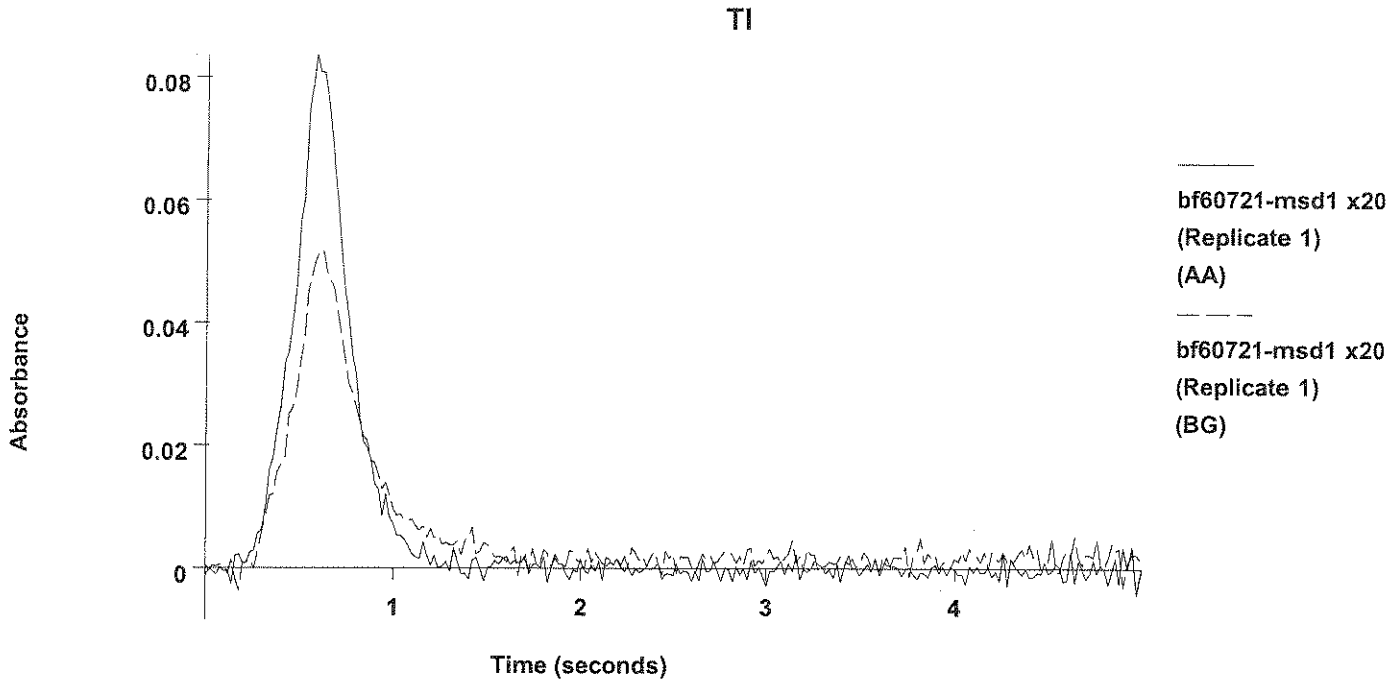


2	18.0	18.0	0.0263	0.0267	0.0752	0.0301	0.0487	08:11:26 Yes
Mean:	18.3	18.3	0.0266					
SD :	0.35	0.35	0.0005					
%RSD:	1.93	1.93	1.93					

73%

Element: Tl Seq. No.: 50 AS Loc.: 12 Date: 06/10/2006
Sample ID: bf60721-msd1 x20
µL dispensed: 10 from 148, 5 from 147, 15 from 12

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	19.2	19.2	0.0280	0.0285	0.0836	0.0281	0.0517	08:14:17	Yes



2	20.2	20.2	0.0295	0.0299	0.0873	0.0280	0.0534	08:17:08	Yes
Mean:	19.7	19.7	0.0287						
SD :	0.72	0.72	0.0010						
%RSD:	3.64	3.64	3.63						

79/.

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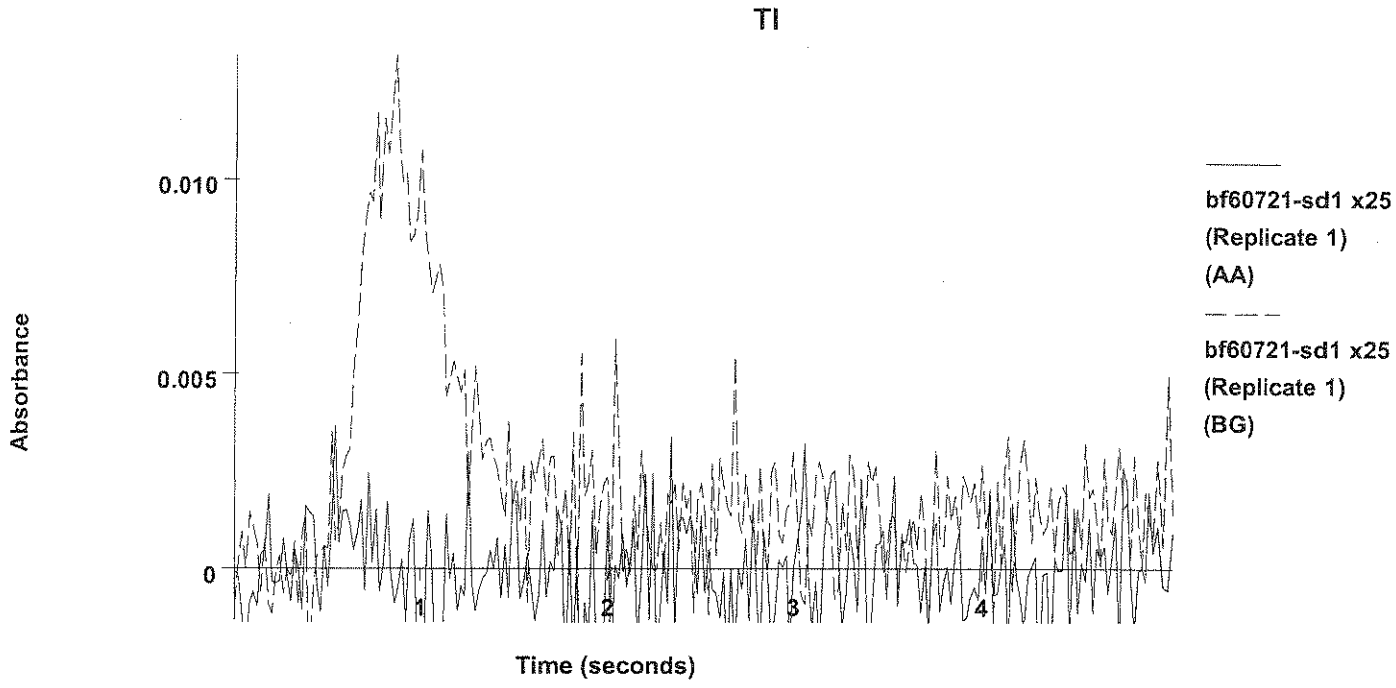
Element: Tl Seq. No.: 51 AS Loc.: 13 Date: 06/10/2006
Sample ID: bf60721-sd1 x25
µL dispensed: 10 from 148, 5 from 147, 15 from 13

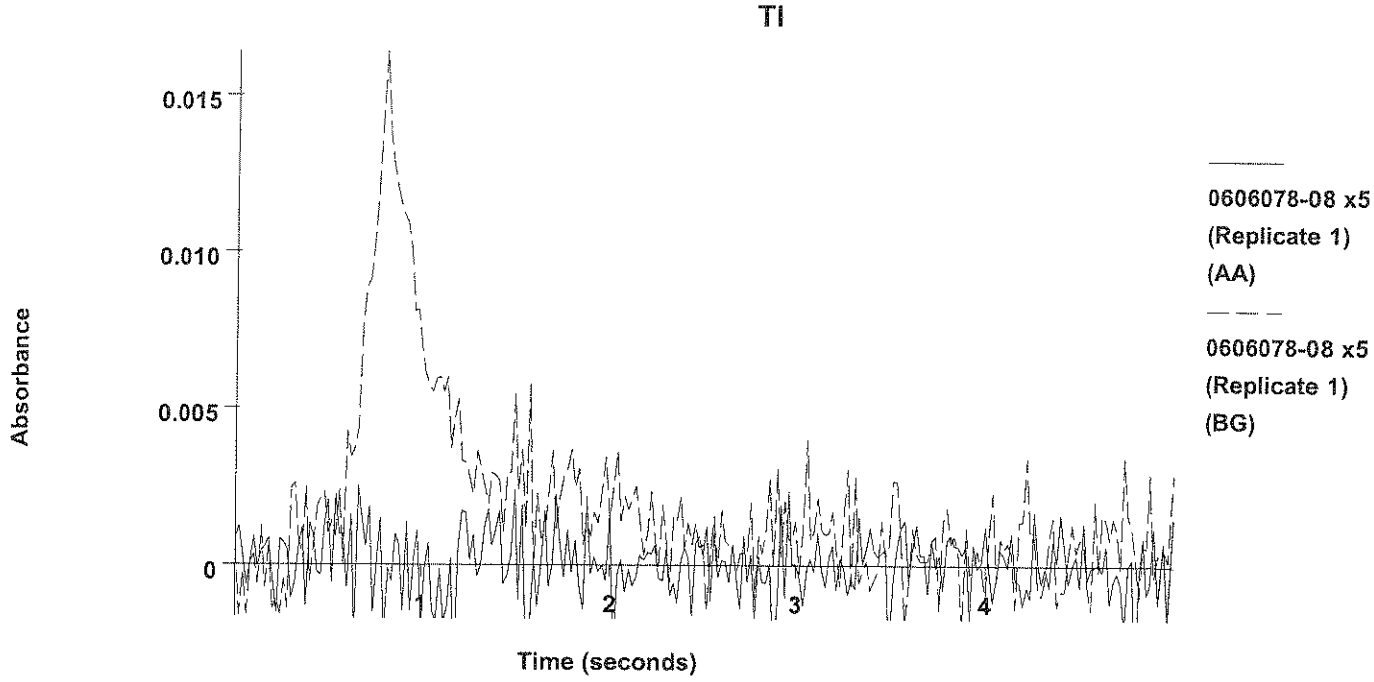
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0006	-0.0002	0.0037	0.0113	0.0132	08:19:59	Yes



2	0.5	0.5	0.0008	0.0013	0.0037	0.0116	0.0165	08:22:50 Yes
Mean:	0.0	0.0	0.0001					
SD :	0.69	0.69	0.0010					
%RSD:	2305	2305	1043.66					

Element: Tl Seq. No.: 52 AS Loc.: 14 Date: 06/10/2006
Sample ID: 0606078-08 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 14

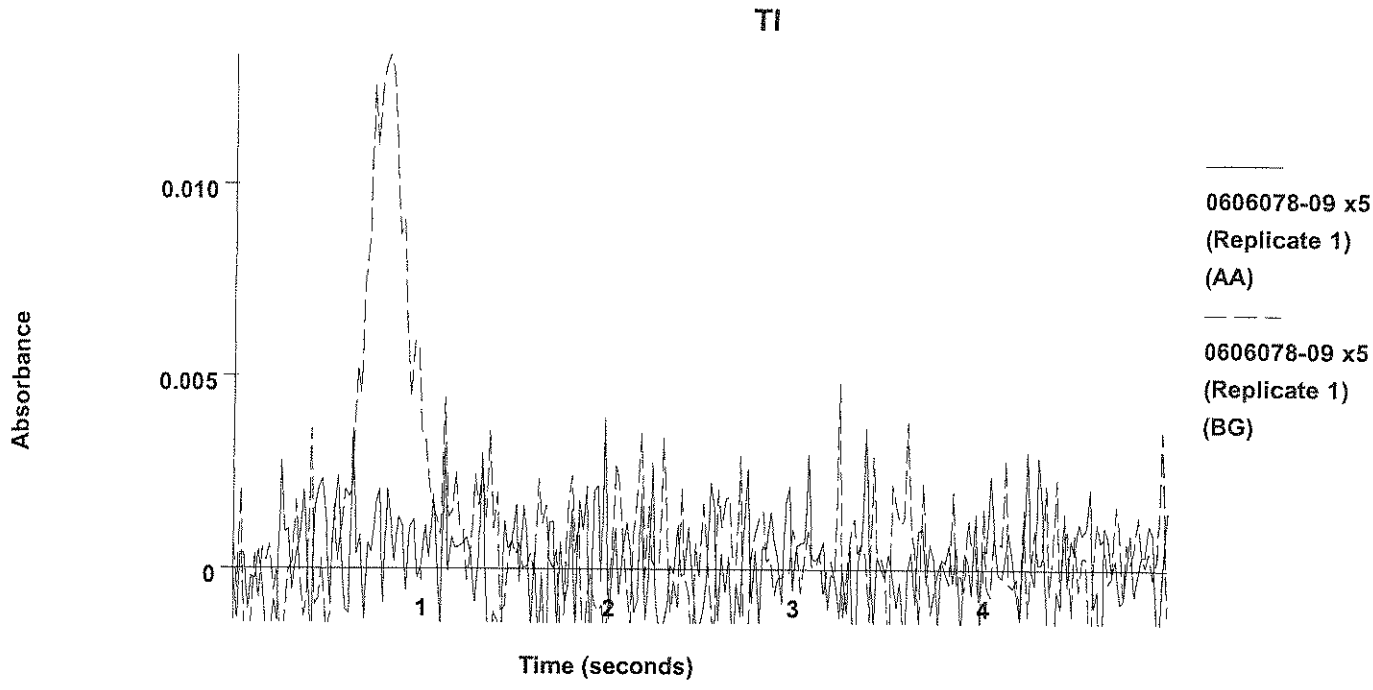
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0003	0.0002	0.0025	0.0097	0.0164	08:25:40	Yes



2	-0.3	-0.3	-0.0005	0.0000	0.0036	0.0099	0.0186	08:28:31 Yes
Mean:	-0.3	-0.3	-0.0004					
SD :	0.09	0.09	0.0001					
%RSD:	32.55	32.55	37.32					

Element: Tl Seq. No.: 53 AS Loc.: 15 Date: 06/10/2006
Sample ID: 0606078-09 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 15

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.3	0.3	0.0005	0.0009	0.0039	0.0052	0.0134	08:31:22	Yes

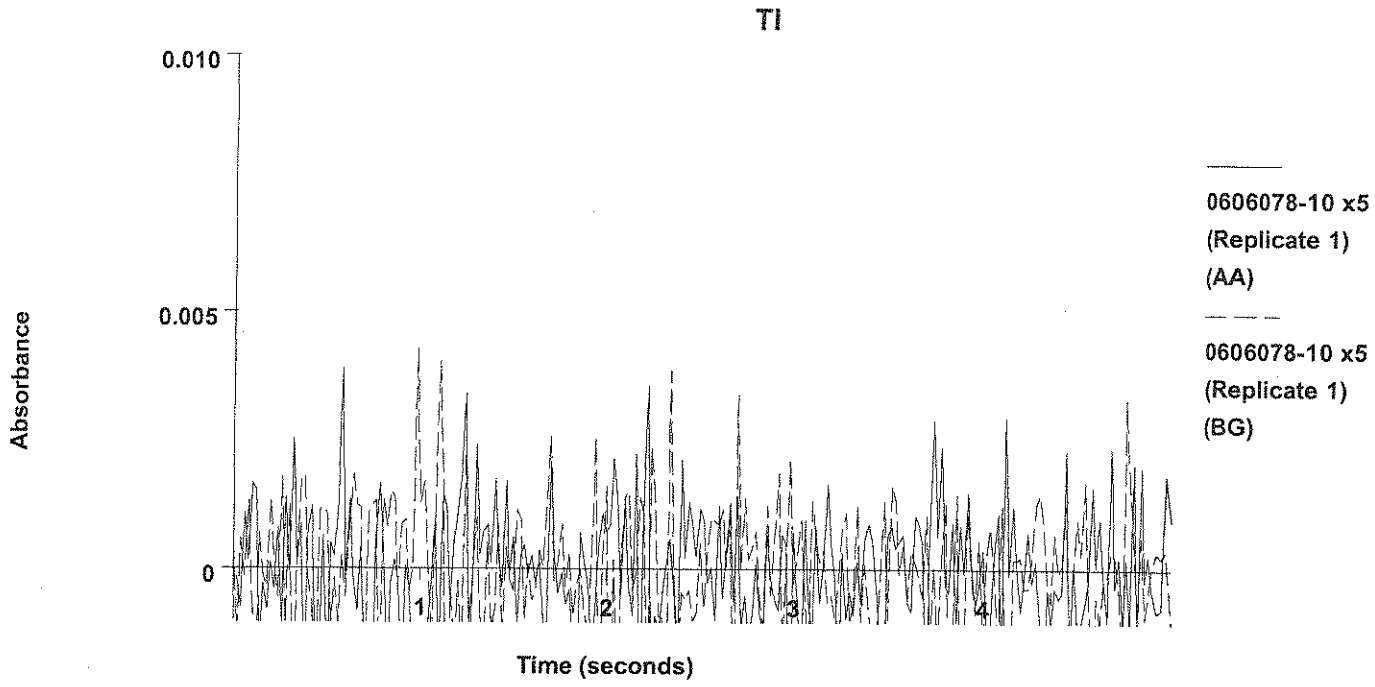


2	0.8	0.8	0.0013	0.0017	0.0033	-0.0013	0.0027	08:34:13	Yes
Mean:	0.6	0.6	0.0009						
SD :	0.40	0.40	0.0006						
%RSD:	70.55	70.55	66.30						

D

Element: Tl Seq. No.: 54 AS Loc.: 16 Date: 06/10/2006
Sample ID: 0606078-10 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 16

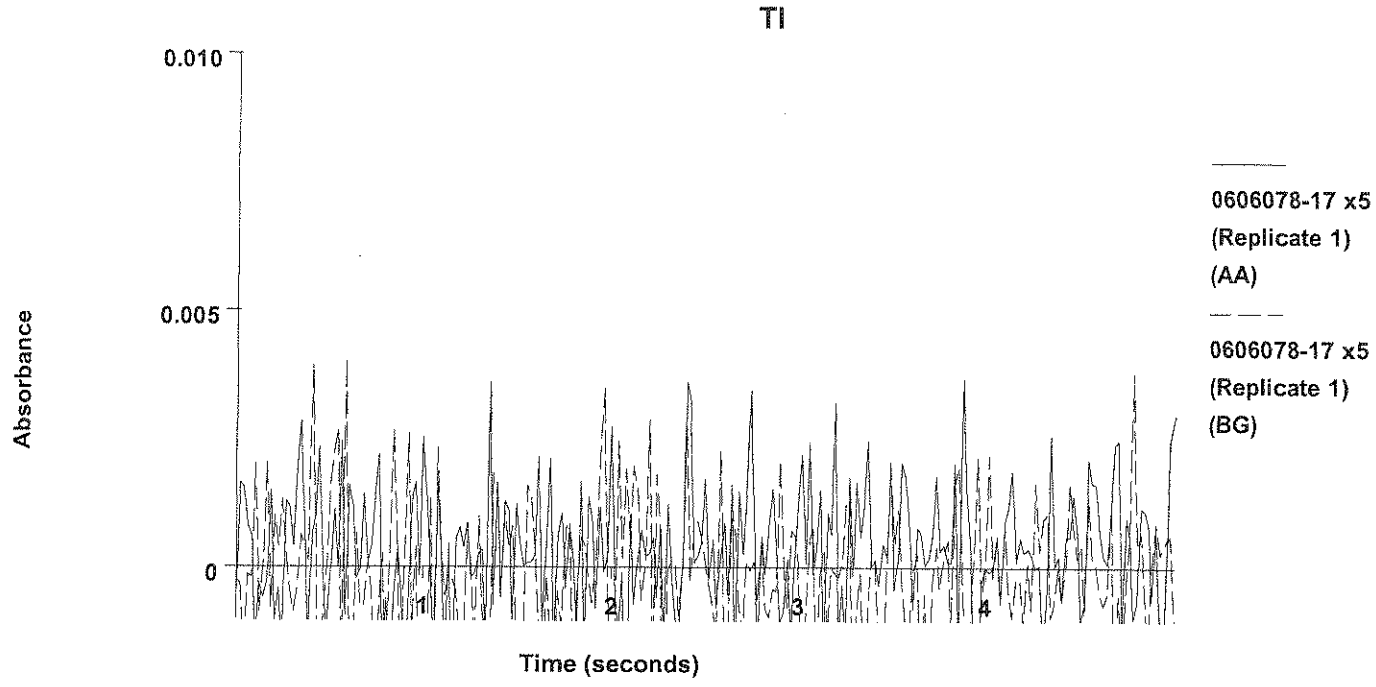
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0006	-0.0002	0.0039	0.0001	0.0043	08:37:04	Yes



2	-0.3	-0.3	-0.0004	0.0000	0.0047	-0.0001	0.0040	08:39:55	Yes
Mean:	-0.4	-0.4	-0.0005						
SD :	0.08	0.08	0.0001						
%RSD:	19.67	19.67	21.63						

Element: Tl Seq. No.: 55 AS Loc.: 17 Date: 06/10/2006
Sample ID: 0606078-17 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 17

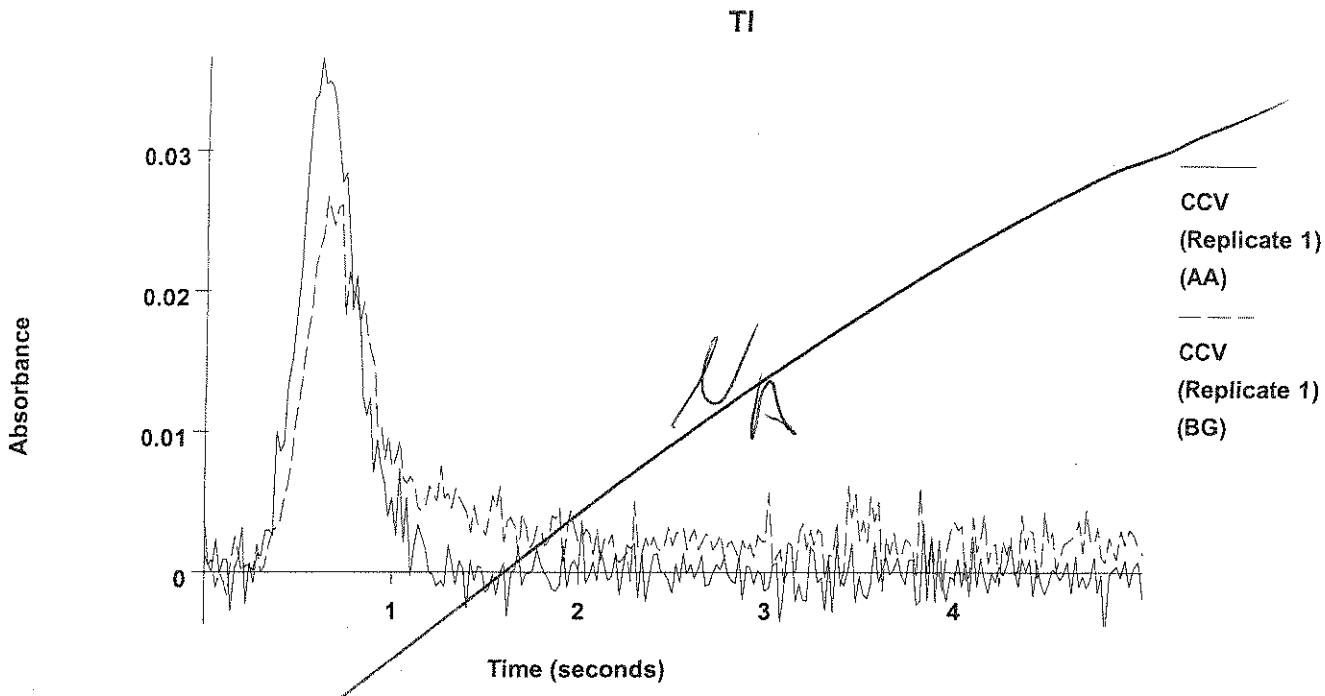
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.9	0.9	0.0014	0.0019	0.0037	-0.0005	0.0040	08:42:46	Yes



2	0.6	0.6	0.0010	0.0014	0.0043	0.0004	0.0050	08:45:37 Yes
Mean:	0.8	0.8	0.0012					
SD :	0.20	0.20	0.0003					
%RSD:	25.66	25.66	24.53					

Element: Tl Seq. No.: 56 AS Loc.: 22 Date: 06/10/2006
Sample ID: BF60914-blk1
µL dispensed: 10 from 148, 5 from 147, 15 from 22

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0005	0.0000	0.0024	0.0000	0.0021	08:48:28	Yes



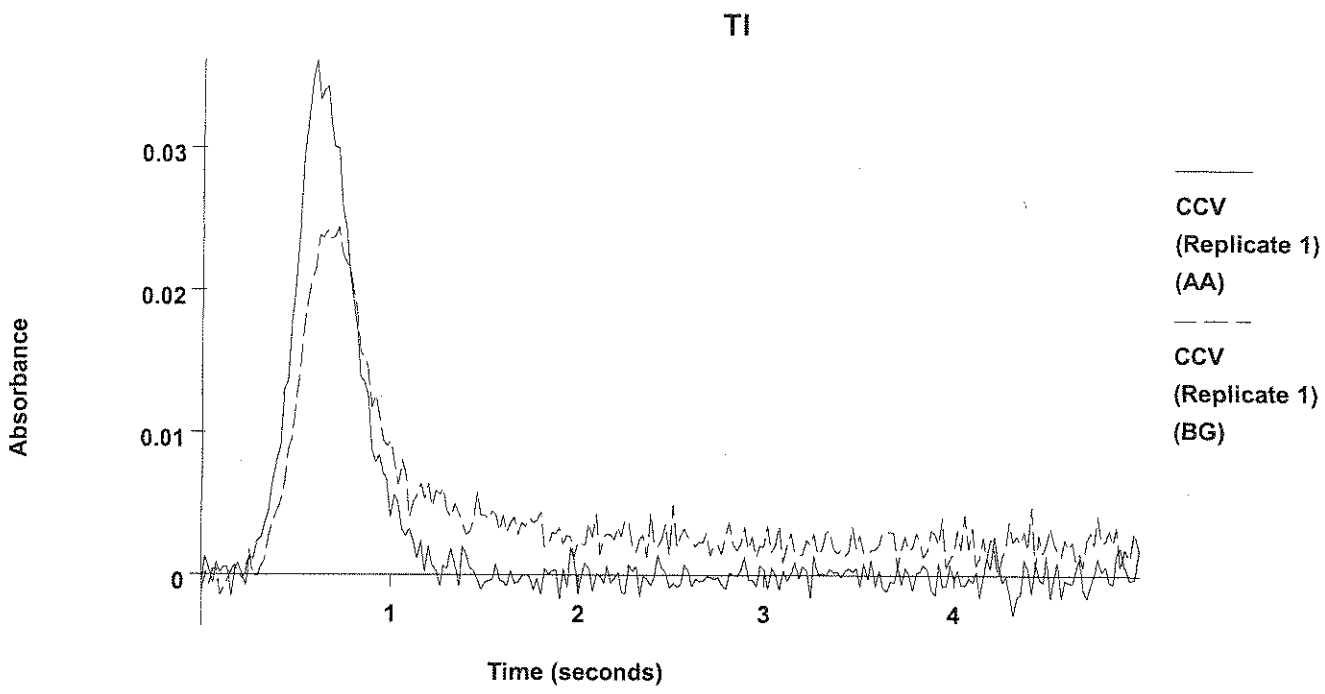
2	8.8	8.8	0.0129	0.0134	0.0372	0.0225	0.0258	09:25:58 Yes
Mean:	8.8	8.8	0.0128					
SD :	0.11	0.11	0.0002					
%RSD:	1.27	1.27	1.26					

QC failed, value less than lower limit for Tl.

==========

Element: Tl Seq. No.: 63 AS Loc.: 124 Date: 06/10/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	8.8	8.8	0.0129	0.0133	0.0361	0.0211	0.0244	09:28:51	Yes



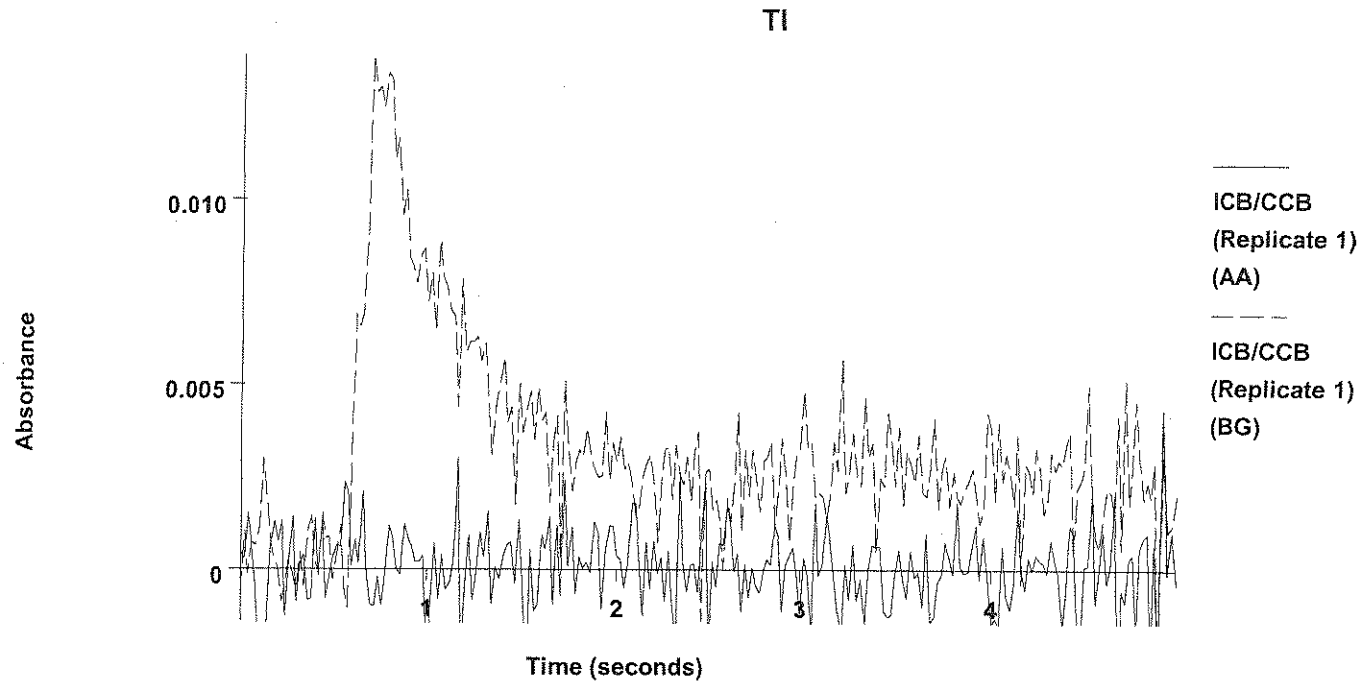
2	9.6	9.6	0.0140	0.0144	0.0379	0.0222	0.0259	09:31:43	Yes
Mean:	9.2	9.2	0.0134						
SD :	0.53	0.53	0.0008						
%RSD:	5.82	5.82	5.80						

QC value within specified limits.

==========

Element: Tl Seq. No.: 64 AS Loc.: 148 Date: 06/10/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0001	0.0003	0.0043	0.0162	0.0139	09:34:34	Yes



2	-0.8	-0.8	-0.0011	-0.0007	0.0037	0.0192	0.0128	09:37:25 Yes
Mean:	-0.5	-0.5	-0.0006					
SD :	0.46	0.46	0.0007					
%RSD:	99.41	99.41	107.76					

QC value within specified limits.

==========

Element: Tl Seq. No.: 65 AS Loc.: 25 Date: 06/10/2006
Sample ID: 0606088-01
µL dispensed: 10 from 148, 5 from 147, 15 from 25

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	0.0001	0.0006	0.0021	0.0005	0.0052	09:40:15	Yes

ANALYSIS SEQUENCE

BPG0181

Instrument: HG1

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0181-CAL1	QC		1		6F07030		
BPG0181-CAL2	QC		2		6F07031		
BPG0181-CAL3	QC		3		6F07032		
BPG0181-CAL4	QC		4		6F07033		
BPG0181-CAL5	QC		5		6F07034		
BPG0181-CAL6	QC		6		6F07035		
BPG0181-ICV1	QC		7		6F07033		
BPG0181-SCV1	QC		8		6F07036		
BPG0181-ICB1	QC		9				
BF60722-BLK1	QC		10				
BF60722-BS1	QC		11				
BPG0181-CCB1	QC		12				
BPG0181-CCV1	QC		13		6F07033		
BF60722-BSD1	QC		14				
BF60722-PS1	QC		15				
BF60722-SRM1	QC		16				
BF60722-DUP1	QC		17				
BF60722-MS1	QC		18				
BF60722-MSD1	QC		19				
BF60722-DUP2	QC		20				
BF60722-MS2	QC		21				
BF60722-MSD2	QC		22				
BF60722-PS2	QC		23				
BPG0181-CCB2	QC		24				
BPG0181-CCV2	QC		25		6F07033		
0606078-01	Hg: ppm Mercury 7471	F	26				MACTEC Engineering & Consulting, In
0606078-02	Hg: ppm Mercury 7471	F	27				MACTEC Engineering & Consulting, In
0606078-03	Hg: ppm Mercury 7471	F	28				MACTEC Engineering & Consulting, In
0606078-04	Hg: ppm Mercury 7471	F	29				MACTEC Engineering & Consulting, In
0606078-05	Hg: ppm Mercury 7471	F	30				MACTEC Engineering & Consulting, In
0606078-08	Hg: ppm Mercury 7471	F	31				MACTEC Engineering & Consulting, In
0606078-09	Hg: ppm Mercury 7471	F	32				MACTEC Engineering & Consulting, In
0606078-10	Hg: ppm Mercury 7471	F	33				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0181

Instrument: HG1

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606078-17	Hg: ppm Mercury 7471	F	34				MACTEC Engineering & Consulting, In
0606078-04RE1	Hg: ppm Mercury 7471	F	35				MACTEC Engineering & Consulting, In
BPG0181-CCB3	QC		36				
BPG0181-CCV3	QC		37		6F07033		
0606078-05RE1	Hg: ppm Mercury 7471	F	38				MACTEC Engineering & Consulting, In
0606078-10RE1	Hg: ppm Mercury 7471	F	39				MACTEC Engineering & Consulting, In
0606078-17RE1	Hg: ppm Mercury 7471	F	40				MACTEC Engineering & Consulting, In
BPG0181-SRD1	QC		41				
BPG0181-SRD2	QC		42				
BPG0181-CCB4	QC		43				
BPG0181-CCV4	QC		44		6F07033		
BPG0181-CCV5	QC		45		6F07033		
BPG0181-CCV6	QC		46		6F07033		
BPG0181-CCV7	QC		47		6F07033		
BPG0181-CCB5	QC		48				
BPG0181-CCB6	QC		49				
BPG0181-CCB7	QC		50				

Samples Loaded By Date

Data Processed By Date

Autosampler Loading List

Sample Information File: 060806A.SIF
Methods: Hg_5ppb Shigh

Location	Elements	Solution
0	Hg	Wash Solution
1	Hg	Calib Blank
	Hg	ICCB: 0.0000 µg/L
2	Hg	0.5 ug/L: 0.5 µg/L
3	Hg	1.0 ug/L: 1.0 µg/L
4	Hg	3.0 ug/L: 3.0 µg/L
	Hg	STD 3.0: 3.0000 µg/L
5	Hg	5.0 ug/L: 5.0 µg/L
6	Hg	10.0 ug/L: 10.0 µg/L
7	Hg	ICV: 3.0000 µg/L
9	Hg	Sample: bf60722-blk1
10	Hg	Sample: bf60722-bs1
11	Hg	Sample: bf60722-bsd1
12	Hg	Sample: bf60722-srm1 x10
13	Hg	Sample: 0606078-01
14	Hg	Sample: 0606078-02
15	Hg	Sample: 0606078-03
16	Hg	~~Sample: 0606078-04~~
17	Hg	Sample: 0606078-05
18	Hg	Sample: bf60722-dup1
19	Hg	Sample: bf60722-ms1 dilutions 6/8/06 EEm
20	Hg	Sample: bf60722-msd1
21	Hg	Sample: bf60722-sd1 x5
22	Hg	~~Sample: bf60722-pds1~~
23	Hg	Sample: 0606078-08
24	Hg	Sample: 0606078-09
25	Hg	~~Sample: 0606078-10~~ dilutions 6/8/06 EEm
26	Hg	~~Sample: 0606078-17~~
27	Hg	Sample: 0606118-03

Autosampler Loading List

Sample Information File: 060806A.SIF
Methods: Hg_5ppb Shigh

Location	Elements	Solution
0	Hg	Wash Solution
1	Hg	Calib Blank
	Hg	ICCB: 0.0000 µg/L
2	Hg	0.5 ug/L: 0.5 µg/L
3	Hg	1.0 ug/L: 1.0 µg/L
4	Hg	3.0 ug/L: 3.0 µg/L
	Hg	STD 3.0: 3.0000 µg/L
5	Hg	5.0 ug/L: 5.0 µg/L
6	Hg	10.0 ug/L: 10.0 µg/L
7	Hg	ICV: 3.0000 µg/L
28	Hg	Sample: 0606078-04 x10
29	Hg	Sample: 0606078-05 x5
30	Hg	Sample: bf60722-dup1 x5
31	Hg	Sample: bf60722-ms1 x5
32	Hg	Sample: bf60722-msd1 x5
33	Hg	Sample: bf60722-sd1 x25
34	Hg	Sample: bf60722-pds1 x5
35	Hg	Sample: 0606078-10 x5
36	Hg	Sample: 0606078-17 x10

Method Name: Hg_5ppb Shigh
Method Description: SnCl/Hg read
Element: Hg

Date: 06/08/2006
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 060806A.SIF Results Data Set Name: 060806ad

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 06/08/2006
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0248	0.0248	0.0043	10:20:57	Yes
2			0.0244	0.0244	0.0042	10:21:26	Yes
Mean:			0.0246				
SD :			0.0003				
%RSD:			1.1239				

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 06/08/2006
Sample ID: 0.5 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0625	0.0871	0.0164	10:22:50	Yes
2			0.0606	0.0852	0.0162	10:23:19	Yes
Mean:			0.0616				
SD :			0.0014				
%RSD:			2.2398				

[Hg] Standard number 1 applied. [0.50]
Correlation Coefficient: 1.00000 Slope: 0.12311
Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 06/08/2006
Sample ID: 1.0 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1185	0.1431	0.0277	10:24:44	Yes
2			0.1172	0.1418	0.0277	10:25:13	Yes
Mean:			0.1178				
SD :			0.0009				
%RSD:			0.7745				

[Hg] Standard number 2 applied. [1.00]
Correlation Coefficient: 0.99967 Slope: 0.11785
Intercept : 0.00088

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 06/08/2006
Sample ID: 3.0 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.3419	0.3665	0.0725	10:26:39	Yes
2			0.3389	0.3635	0.0723	10:27:08	Yes

Mean: 0.3404
SD : 0.0021
%RSD: 0.6134
[Hg] Standard number 3 applied. [3.00]
Correlation Coefficient: 0.99986 Slope: 0.11277
Intercept : 0.00308

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 06/08/2006
Sample ID: 5.0 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.5565	0.5811	0.1149	10:28:34	Yes
2			0.5497	0.5744	0.1143	10:29:03	Yes
Mean:			0.5531				
SD :			0.0048				
%RSD:			0.8615				

[Hg] Standard number 4 applied. [5.00]
Correlation Coefficient: 0.99984 Slope: 0.11028
Intercept : 0.00505

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 06/08/2006
Sample ID: 10.0 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			1.0830	1.1076	0.2194	10:30:30	Yes
2			1.0728	1.0974	0.2183	10:31:00	Yes
Mean:			1.0779				
SD :			0.0072				
%RSD:			0.6701				

[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99985 Slope: 0.10747
Intercept : 0.00919

Calibration data for Hg

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0246	--	----	----	----
0.5 ug/L	0.0616	0.50	0.49	0.001	2.2
1.0 ug/L	0.1178	1.00	1.01	0.001	0.8
3.0 ug/L	0.3404	3.00	3.08	0.002	0.6
5.0 ug/L	0.5531	5.00	5.06	0.005	0.9
10.0 ug/L	1.0779	10.00	9.94	0.007	0.7

Correlation Coefficient: 0.99985 Slope: 0.10747 Intercept: 0.0092

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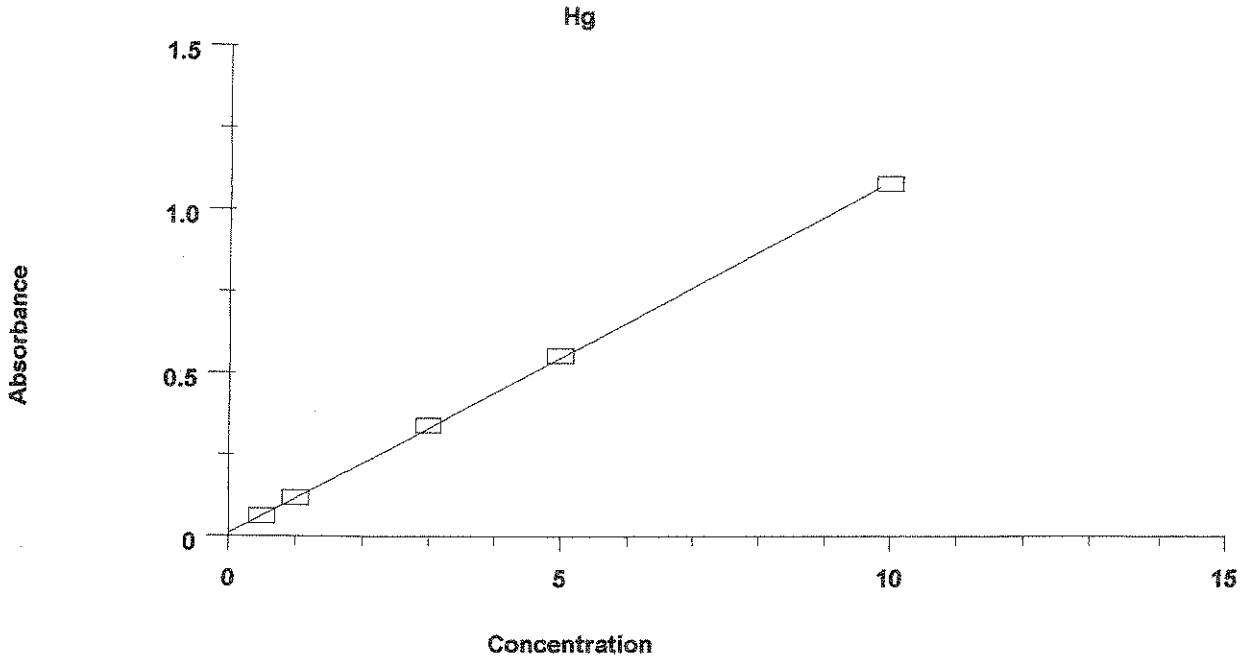
cal seed



Element: Hg Seq. No.: 7 AS Loc.: 4 Date: 06/08/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.11	3.11	0.3437	0.3683	0.0728	10:32:28	Yes
2	3.09	3.09	0.3414	0.3660	0.0729	10:32:57	Yes
Mean:	3.10	3.10	0.3426				
SD :	0.015	0.015	0.0016				
%RSD:	0.5	0.5	0.4667				

QC value within specified limits. ✓

Element: Hg Seq. No.: 8 AS Loc.: 7 Date: 06/08/2006
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.16	3.16	0.3490	0.3736	0.0741	10:34:22	Yes
2	3.13	3.13	0.3460	0.3706	0.0741	10:34:51	Yes
Mean:	3.15	3.15	0.3475				
SD :	0.020	0.020	0.0021				
%RSD:	0.6	0.6	0.6177				

QC value within specified limits. ✓

Element: Hg Seq. No.: 9 AS Loc.: 1 Date: 06/08/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.11	-0.11	-0.0031	0.0215	0.0038	10:36:15	Yes
2	-0.12	-0.12	-0.0037	0.0209	0.0038	10:36:44	Yes

Mean:	-0.12	-0.12	-0.0034
SD :	0.004	0.004	0.0004
%RSD:	3.3	3.3	12.1572

QC value within specified limits. ✓

Element: Hg Seq. No.: 10 AS Loc.: 9 Date: 06/08/2006
Sample ID: bf60722-blk1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.14	-0.14	-0.0060	0.0186	0.0034	10:38:07	Yes
2	-0.15	-0.15	-0.0065	0.0181	0.0034	10:38:36	Yes
Mean:	-0.14	-0.14	-0.0063				
SD :	0.003	0.003	0.0003				
%RSD:	2.2	2.2	5.5049				

ND

Element: Hg Seq. No.: 11 AS Loc.: 10 Date: 06/08/2006
Sample ID: bf60722-bs1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.13	3.13	0.3451	0.3697	0.0732	10:39:59	Yes
2	3.09	3.09	0.3410	0.3656	0.0732	10:40:29	Yes
Mean:	3.11	3.11	0.3430				
SD :	0.027	0.027	0.0029				
%RSD:	0.9	0.9	0.8474				

104%

Element: Hg Seq. No.: 12 AS Loc.: 11 Date: 06/08/2006
Sample ID: bf60722-bsd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.11	3.11	0.3438	0.3684	0.0731	10:41:52	Yes
2	3.10	3.10	0.3423	0.3669	0.0731	10:42:22	Yes
Mean:	3.11	3.11	0.3431				
SD :	0.010	0.010	0.0011				
%RSD:	0.3	0.3	0.3081				

104%

$\frac{3.11 - 3.11}{3.11} \cdot 100 = 0\%$

Element: Hg Seq. No.: 13 AS Loc.: 12 Date: 06/08/2006
Sample ID: bf60722-srm1 x10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.59	2.59	0.2871	0.3117	0.0627	10:43:47	Yes
2	2.55	2.55	0.2828	0.3074	0.0625	10:44:17	Yes
Mean:	2.57	2.57	0.2849				
SD :	0.028	0.028	0.0030				
%RSD:	1.1	1.1	1.0631				

$\frac{2.57(10)(40)}{0.6(1000)} = 1.71$

Element: Hg Seq. No.: 14 AS Loc.: 13 Date: 06/08/2006
Sample ID: 0606078-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	9.32	9.32	1.0111	1.0358	0.2036	10:45:43	Yes
2	9.28	9.28	1.0064	1.0310	0.2035	10:46:12	Yes
Mean:	9.30	9.30	1.0088				
SD :	0.031	0.031	0.0033				

%RSD:	0.3	0.3	0.3310

Element: Hg Seq. No.: 15 AS Loc.: 14 Date: 06/08/2006
Sample ID: 0606078-02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.41	2.41	0.2679	0.2925	0.0580	10:47:38	Yes
2	2.39	2.39	0.2664	0.2910	0.0577	10:48:07	Yes
Mean:	2.40	2.40	0.2672				
SD :	0.010	0.010	0.0011				
%RSD:	0.4	0.4	0.3940				

Element: Hg Seq. No.: 16 AS Loc.: 15 Date: 06/08/2006
Sample ID: 0606078-03

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.84	1.84	0.2073	0.2319	0.0459	10:49:34	Yes
2	1.83	1.83	0.2064	0.2310	0.0459	10:50:04	Yes
Mean:	1.84	1.84	0.2069				
SD :	0.006	0.006	0.0007				
%RSD:	0.3	0.3	0.3209				

Element: Hg Seq. No.: 17 AS Loc.: 16 Date: 06/08/2006
Sample ID: 0606078-04

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	26.27	26.27	2.8319	2.8565	0.5537	10:51:32	Yes
Sample absorbance is greater than that of the highest standard.							
2	26.22	26.22	2.8274	2.8520	0.5531	10:52:01	Yes
Sample absorbance is greater than that of the highest standard.							
Mean:	26.24	26.24	2.8296				
SD :	0.029	0.029	0.0031				
%RSD:	0.1	0.1	0.1109				
Sample absorbance is greater than that of the highest standard.							

Element: Hg Seq. No.: 18 AS Loc.: 17 Date: 06/08/2006
Sample ID: 0606078-05

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	13.03	13.03	1.4099	1.4345	0.2822	10:53:26	Yes
Sample absorbance is greater than that of the highest standard.							
2	13.01	13.01	1.4071	1.4317	0.2831	10:53:55	Yes
Sample absorbance is greater than that of the highest standard.							
Mean:	13.02	13.02	1.4085				
SD :	0.018	0.018	0.0020				
%RSD:	0.1	0.1	0.1402				
Sample absorbance is greater than that of the highest standard.							

Element: Hg Seq. No.: 19 AS Loc.: 18 Date: 06/08/2006
Sample ID: bf60722-dup1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	17.18	17.18	1.8557	1.8803	0.3692	10:55:16	Yes

Sample absorbance is greater than that of the highest standard.

2	17.18	17.18	1.8560	1.8806	0.3700	10:55:45 Yes

Sample absorbance is greater than that of the highest standard.

Mean:	17.18	17.18	1.8558			
SD :	0.002	0.002	0.0002			
%RSD:						

Sample absorbance is greater than that of the highest standard.

Element: Hg Seq. No.: 20 AS Loc.: 4 Date: 06/08/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.08	3.08	0.3404	0.3650	0.0721	10:57:08	Yes
2	3.08	3.08	0.3405	0.3652	0.0723	10:57:37	Yes
Mean:	3.08	3.08	0.3405				
SD :	0.001	0.001	0.0001				
%RSD:							

QC value within specified limits.

Element: Hg Seq. No.: 21 AS Loc.: 1 Date: 06/08/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.10	-0.10	-0.0015	0.0231	0.0040	10:59:01	Yes
2	-0.10	-0.10	-0.0020	0.0226	0.0039	10:59:30	Yes
Mean:	-0.10	-0.10	-0.0017				
SD :	0.003	0.003	0.0004				
%RSD:	3.4	3.4	21.0605				

QC value within specified limits.

Element: Hg Seq. No.: 22 AS Loc.: 19 Date: 06/08/2006
Sample ID: bf60722-ms1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	15.98	15.98	1.7268	1.7514	0.3427	11:00:53	Yes

Sample absorbance is greater than that of the highest standard.

2	15.89	15.89	1.7165	1.7411	0.3430	11:01:21 Yes

Sample absorbance is greater than that of the highest standard.

Mean:	15.93	15.93	1.7216			
SD :	0.068	0.068	0.0073			
%RSD:	0.4	0.4	0.4264			

Sample absorbance is greater than that of the highest standard.

Element: Hg Seq. No.: 23 AS Loc.: 20 Date: 06/08/2006
Sample ID: bf60722-msd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	29.03	29.03	3.1292	3.1538	0.6087	11:02:44	Yes

Sample absorbance is greater than that of the highest standard.

2	29.00	29.00	3.1261	3.1507	0.6097	11:03:14 Yes

Sample absorbance is greater than that of the highest standard.

Mean:	29.02	29.02	3.1277			
SD :	0.021	0.021	0.0022			
%RSD:						

Sample absorbance is greater than that of the highest standard.

Element: Hg Seq. No.: 24 AS Loc.: 21 Date: 06/08/2006
Sample ID: bf60722-sd1 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.79	2.79	0.3086	0.3332	0.0668	11:04:37	Yes
2	2.77	2.77	0.3074	0.3320	0.0667	11:05:06	Yes
Mean:	2.78	2.78	0.3080				
SD :	0.008	0.008	0.0009				
%RSD:	0.3	0.3	0.2908				

Element: Hg Seq. No.: 25 AS Loc.: 22 Date: 06/08/2006
Sample ID: bf60722-pds1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	17.59	17.59	1.8995	1.9241	0.3752	11:06:30	Yes
Sample absorbance is greater than that of the highest standard.							
2	17.54	17.54	1.8945	1.9191	0.3761	11:06:59	Yes
Sample absorbance is greater than that of the highest standard.							
Mean:	17.57	17.57	1.8970				
SD :	0.033	0.033	0.0035				
%RSD:	0.2	0.2	0.1869				
Sample absorbance is greater than that of the highest standard.							

Element: Hg Seq. No.: 26 AS Loc.: 23 Date: 06/08/2006
Sample ID: 0606078-08

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	5.04	5.04	0.5508	0.5754	0.1137	11:08:22	Yes
2	5.05	5.05	0.5519	0.5765	0.1143	11:08:51	Yes
Mean:	5.04	5.04	0.5513				
SD :	0.007	0.007	0.0008				
%RSD:	0.1	0.1	0.1402				

Element: Hg Seq. No.: 27 AS Loc.: 24 Date: 06/08/2006
Sample ID: 0606078-09

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.47	1.47	0.1669	0.1915	0.0377	11:10:16	Yes
2	1.47	1.47	0.1668	0.1914	0.0378	11:10:45	Yes
Mean:	1.47	1.47	0.1668				
SD :	0.001	0.001	0.0001				
%RSD:							

Element: Hg Seq. No.: 28 AS Loc.: 25 Date: 06/08/2006
Sample ID: 0606078-10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	11.71	11.71	1.2678	1.2924	0.2522	11:12:10	Yes
Sample absorbance is greater than that of the highest standard.							
2	11.64	11.64	1.2599	1.2845	0.2524	11:12:39	Yes
Sample absorbance is greater than that of the highest standard.							
Mean:	11.68	11.68	1.2639				
SD :	0.052	0.052	0.0056				
%RSD:	0.4	0.4	0.4420				
Sample absorbance is greater than that of the highest standard.							

Element: Hg Seq. No.: 29 AS Loc.: 26 Date: 06/08/2006
Sample ID: 0606078-17

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	36.89	36.89	3.9738	3.9984	0.7605	11:14:04	Yes
Sample absorbance is greater than that of the highest standard.							
2	36.72	36.72	3.9557	3.9803	0.7576	11:14:33	Yes
Sample absorbance is greater than that of the highest standard.							
Mean:	36.81	36.81	3.9648				
SD :	0.119	0.119	0.0128				
%RSD:	0.3	0.3	0.3223				
Sample absorbance is greater than that of the highest standard.							

Element: Hg Seq. No.: 30 AS Loc.: 27 Date: 06/08/2006
Sample ID: 0606118-03

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.70	0.70	0.0843	0.1090	0.0208	11:16:00	Yes
2	0.71	0.71	0.0854	0.1100	0.0211	11:16:29	Yes
Mean:	0.70	0.70	0.0849				
SD :	0.007	0.007	0.0008				
%RSD:	1.0	1.0	0.8901				

Element: Hg Seq. No.: 31 AS Loc.: 4 Date: 06/08/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.11	3.11	0.3436	0.3682	0.0722	11:17:55	Yes
2	3.07	3.07	0.3393	0.3639	0.0720	11:18:25	Yes
Mean:	3.09	3.09	0.3414				
SD :	0.028	0.028	0.0030				
%RSD:	0.9	0.9	0.8872				
QC value within specified limits.							

Element: Hg Seq. No.: 32 AS Loc.: 1 Date: 06/08/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.13	-0.13	-0.0043	0.0203	0.0036	11:19:48	Yes
2	-0.13	-0.13	-0.0048	0.0198	0.0035	11:20:17	Yes
Mean:	-0.13	-0.13	-0.0046				
SD :	0.003	0.003	0.0003				
%RSD:	2.4	2.4	7.3037				
QC value within specified limits.							

Element: Hg Seq. No.: 33 AS Loc.: 4 Date: 06/08/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.09	3.09	0.3411	0.3657	0.0738	11:38:26	Yes
2	3.09	3.09	0.3410	0.3656	0.0740	11:38:55	Yes
Mean:	3.09	3.09	0.3411				
SD :	0.001	0.001	0.0001				
%RSD:							

QC value within specified limits. ✓

Element: Hg Seq. No.: 34 AS Loc.: 7 Date: 06/08/2006
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.12	3.12	0.3443	0.3689	0.0745	11:40:21	Yes
2	3.07	3.07	0.3396	0.3642	0.0741	11:40:50	Yes
Mean:	3.10	3.10	0.3419				
SD :	0.031	0.031	0.0033				
%RSD:	1.0	1.0	0.9689				

QC value within specified limits. ✓

Element: Hg Seq. No.: 35 AS Loc.: 1 Date: 06/08/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.14	-0.14	-0.0054	0.0192	0.0035	11:42:14	Yes
2	-0.14	-0.14	-0.0056	0.0190	0.0035	11:42:43	Yes
Mean:	-0.14	-0.14	-0.0055				
SD :	0.001	0.001	0.0001				
%RSD:	1.0	1.0	2.5897				

QC value within specified limits. ✓

Element: Hg Seq. No.: 36 AS Loc.: 28 Date: 06/08/2006
Sample ID: 0606078-04 x10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.87	2.87	0.3177	0.3423	0.0700	11:44:07	Yes
2	2.86	2.86	0.3166	0.3412	0.0702	11:44:36	Yes
Mean:	2.87	2.87	0.3172				
SD :	0.007	0.007	0.0008				
%RSD:	0.3	0.3	0.2468				

Element: Hg Seq. No.: 37 AS Loc.: 29 Date: 06/08/2006
Sample ID: 0606078-05 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.77	2.77	0.3067	0.3313	0.0677	11:46:03	Yes
2	2.73	2.73	0.3025	0.3271	0.0673	11:46:32	Yes
Mean:	2.75	2.75	0.3046				
SD :	0.028	0.028	0.0030				
%RSD:	1.0	1.0	0.9829				

Element: Hg Seq. No.: 38 AS Loc.: 30 Date: 06/08/2006

Sample ID: bf60722-dup1 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.71	3.71	0.4077	0.4323	0.0879	11:47:59	Yes
2	3.70	3.70	0.4067	0.4313	0.0882	11:48:29	Yes
Mean:	3.70	3.70	0.4072				
SD :	0.006	0.006	0.0007				
%RSD:	0.2	0.2	0.1668				

$\frac{3.70 - 2.75}{3.225} \cdot 100 = 29\%$

Element: Hg Seq. No.: 39 AS Loc.: 31 Date: 06/08/2006
Sample ID: bf60722-ms1 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.43	3.43	0.3774	0.4020	0.0816	11:49:56	Yes
2	3.41	3.41	0.3757	0.4004	0.0818	11:50:26	Yes
Mean:	3.42	3.42	0.3766				
SD :	0.011	0.011	0.0012				
%RSD:	0.3	0.3	0.3165				

$\frac{3.42 - 2.75}{0.6} \cdot 100 = 112\%$

Element: Hg Seq. No.: 40 AS Loc.: 32 Date: 06/08/2006
Sample ID: bf60722-msd1 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	6.55	6.55	0.7132	0.7378	0.1492	11:51:51	Yes
2	6.53	6.53	0.7108	0.7355	0.1494	11:52:21	Yes
Mean:	6.54	6.54	0.7120				
SD :	0.015	0.015	0.0017				
%RSD:	0.2	0.2	0.2338				

$\frac{6.54 - 2.75}{0.6} \cdot 100 = 632\%$ $\frac{6.54 - 3.42}{4.98} \cdot 100 = 63^{\%}$

Element: Hg Seq. No.: 41 AS Loc.: 33 Date: 06/08/2006
Sample ID: bf60722-sd1 x25

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.35	0.35	0.0468	0.0714	0.0147	11:53:42	Yes
2	0.35	0.35	0.0469	0.0715	0.0148	11:54:11	Yes
Mean:	0.35	0.35	0.0469				
SD :	0.001	0.001	0.0001				
%RSD:	0.2	0.2	0.1516				

ND

Element: Hg Seq. No.: 42 AS Loc.: 34 Date: 06/08/2006
Sample ID: bf60722-pds1 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	8.12	8.12	0.8819	0.9066	0.1838	11:55:32	Yes
2	8.08	8.08	0.8780	0.9026	0.1834	11:56:01	Yes
Mean:	8.10	8.10	0.8800				
SD :	0.026	0.026	0.0028				
%RSD:	0.3	0.3	0.3183				

$\frac{8.10 - 2.75}{3} \cdot 100 = 178\%$

Element: Hg Seq. No.: 43 AS Loc.: 35 Date: 06/08/2006
Sample ID: 0606078-10 x5

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

#	µg/L	µg/L	Signal	Area	Height		Stored
1	2.41	2.41	0.2682	0.2928	0.0601	11:57:23	Yes
2	2.46	2.46	0.2731	0.2977	0.0607	11:57:52	Yes
Mean:	2.43	2.43	0.2707				
SD :	0.032	0.032	0.0035				
%RSD:	1.3	1.3	1.2758				

Element: Hg Seq. No.: 44 AS Loc.: 36 Date: 06/08/2006
Sample ID: 0606078-17 x10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.14	4.14	0.4542	0.4788	0.0975	11:59:14	Yes
2	4.11	4.11	0.4512	0.4758	0.0981	11:59:43	Yes
Mean:	4.13	4.13	0.4527				
SD :	0.020	0.020	0.0022				
%RSD:	0.5	0.5	0.4799				

Element: Hg Seq. No.: 45 AS Loc.: 4 Date: 06/08/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.11	3.11	0.3433	0.3680	0.0737	12:01:07	Yes
2	3.06	3.06	0.3376	0.3623	0.0733	12:01:36	Yes
Mean:	3.08	3.08	0.3405				
SD :	0.037	0.037	0.0040				
%RSD:	1.2	1.2	1.1834				

QC value within specified limits. ✓

Element: Hg Seq. No.: 46 AS Loc.: 1 Date: 06/08/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.14	-0.14	-0.0055	0.0191	0.0035	12:03:00	Yes
2	-0.14	-0.14	-0.0058	0.0188	0.0035	12:03:29	Yes
Mean:	-0.14	-0.14	-0.0057				
SD :	0.002	0.002	0.0002				
%RSD:	1.3	1.3	3.4192				

QC value within specified limits. ✓

Metals Logbooks

ESS Laboratory
Mercury Soils Prep Logbook

Batch ID: BF60733 **Reagent IDs:** **Cal std ID*:** 6F06019

Analyst: [illegible] Aqua Regia W0F60607B NaCl-NH_2OH*HCl W0F60503B

Date: 6/7/06 $KMnO_4$ W0F60517E ICV std ID**: 6F06030

Sample ID	Sample Wgt (g)	Quality Control ID/Lot #	Quality Control Spike wt/vol	COMMENTS	Final Vol (ml)	Bath #	Temp. (°C)	Time in	Time out
BF60733-BLK1		~	~		40	[illegible]	95	13:10	13:40
-BS1		6F09030	0.12						
-BSD1		6F09030	0.12						
-SRM1	0.603	6A11056	~						
06078-01	0.63	~							
-02	0.653								
-03	0.625								
-04	0.613								
-05	0.613								
BF60733-DUP1	0.633	~	~						
-MS1	0.625	6F09030	0.12						
-MSD1	0.713	6F09030	0.12						
06078-08	0.643	~	~						
-09	0.623								
-10	0.633								
-11	0.613	~	~		40	13F	95	13:10	13:40

* Calibration standards are prepared daily at 0.0, 0.5, 1.0, 3.0, and 5.0 ppb. See SOP for preparation instructions.

**ICV is prepared daily at a concentration of 2.0 ppb. See SOP for preparation instructions.

ESS LABORATORY

METALS PREP LOGBOOK

ANALYST: MS

DATE: 6/7/04

TIME: 11:30

Batch ID: BF060721

HNO_3 Reagent - AR# : 060501B

1:1 HCl Reagent- WR#: 060530F

1:1 HNO_3 Reagent- WR#: 060530B

H_2O_2 Reagent- AR#: 060331F

Hot Plate	Temp (°C)
HP#3	95

Sample ID	matrix	pH	Initial wgt/vol	Final wgt/vol	QC ID/Lot #	QC wgt/vol	Method	Hot Plate Number	Comments
BF060721-BLK1	S	NA		1mL	NA	NA	3050	HP#2	
-BS1					BE04037	0.5mL			
-BSM			"		BE04037	0.5mL			
-SRM1			1.0g		GA04056	"			
060728-01			1.77g		"				
-02			1.89g						
-03			1.83g						
-04			1.78g						
-05			1.79g						
BF060721-DUP1			1.75g		"	"			
-MS1			1.85g		BE04037	0.5mL			
-MSD1			1.78g		BE04037	0.5mL			
060728-08			1.79g		"	"			
-09			1.81g						
-10			1.76g						
-11	S	NA	1.77g	1mL	"	"	3050	HP#2	

CONTROL# 30.0014-0603A Page_____

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MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE

Volatile Organics Data Package

Volatile Organics
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI006
Date Sampled: 06/05/06 15:05
Percent Solids: 78
Initial Volume: 6.9
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-01
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	4.6	1	06/08/06
1,1,1-Trichloroethane	ND	ug/Kg dry	4.6	1	06/08/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	4.6	1	06/08/06
1,1,2-Trichloroethane	ND	ug/Kg dry	4.6	1	06/08/06
1,1-Dichloroethane	ND	ug/Kg dry	4.6	1	06/08/06
1,1-Dichloroethene	ND	ug/Kg dry	4.6	1	06/08/06
1,1-Dichloropropene	ND	ug/Kg dry	4.6	1	06/08/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	4.6	1	06/08/06
1,2,3-Trichloropropane	ND	ug/Kg dry	4.6	1	06/08/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	4.6	1	06/08/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	4.6	1	06/08/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	4.6	1	06/08/06
1,2-Dibromoethane	ND	ug/Kg dry	4.6	1	06/08/06
1,2-Dichlorobenzene	ND	ug/Kg dry	4.6	1	06/08/06
1,2-Dichloroethane	ND	ug/Kg dry	4.6	1	06/08/06
1,2-Dichloropropane	ND	ug/Kg dry	4.6	1	06/08/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	4.6	1	06/08/06
1,3-Dichlorobenzene	ND	ug/Kg dry	4.6	1	06/08/06
1,3-Dichloropropane	ND	ug/Kg dry	4.6	1	06/08/06
1,4-Dichlorobenzene	ND	ug/Kg dry	4.6	1	06/08/06
1,4-Dioxane - Screen	ND	ug/Kg dry	232	1	06/08/06
1-Chlorohexane	ND	ug/Kg dry	4.6	1	06/08/06
2,2-Dichloropropane	ND	ug/Kg dry	4.6	1	06/08/06
2-Butanone	ND	ug/Kg dry	46.5	1	06/08/06
2-Chlorotoluene	ND	ug/Kg dry	4.6	1	06/08/06
2-Hexanone	ND	ug/Kg dry	46.5	1	06/08/06
4-Chlorotoluene	ND	ug/Kg dry	4.6	1	06/08/06
4-Isopropyltoluene	ND	ug/Kg dry	4.6	1	06/08/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	46.5	1	06/08/06
Acetone	ND	ug/Kg dry	46.5	1	06/08/06
Benzene	ND	ug/Kg dry	4.6	1	06/08/06
Bromobenzene	ND	ug/Kg dry	4.6	1	06/08/06
Bromochloromethane	ND	ug/Kg dry	4.6	1	06/08/06
Bromodichloromethane	ND	ug/Kg dry	4.6	1	06/08/06
Bromoform	ND	ug/Kg dry	4.6	1	06/08/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI006
Date Sampled: 06/05/06 15:05
Percent Solids: 78
Initial Volume: 6.9
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-01
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	9.3	1	06/08/06
Carbon Disulfide	ND	ug/Kg dry	4.6	1	06/08/06
Carbon Tetrachloride	ND	ug/Kg dry	4.6	1	06/08/06
Chlorobenzene	ND	ug/Kg dry	4.6	1	06/08/06
Chloroethane	ND	ug/Kg dry	9.3	1	06/08/06
Chloroform	ND	ug/Kg dry	4.6	1	06/08/06
Chloromethane	ND	ug/Kg dry	9.3	1	06/08/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	4.6	1	06/08/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	4.6	1	06/08/06
Dibromochloromethane	ND	ug/Kg dry	4.6	1	06/08/06
Dibromomethane	ND	ug/Kg dry	4.6	1	06/08/06
Dichlorodifluoromethane	ND	ug/Kg dry	9.3	1	06/08/06
Diethyl Ether	ND	ug/Kg dry	4.6	1	06/08/06
Di-isopropyl ether	ND	ug/Kg dry	4.6	1	06/08/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	4.6	1	06/08/06
Ethylbenzene	ND	ug/Kg dry	4.6	1	06/08/06
Hexachlorobutadiene	ND	ug/Kg dry	4.6	1	06/08/06
Isopropylbenzene	ND	ug/Kg dry	4.6	1	06/08/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	4.6	1	06/08/06
Methylene Chloride	ND	ug/Kg dry	23.2	1	06/08/06
Naphthalene	ND	ug/Kg dry	4.6	1	06/08/06
n-Butylbenzene	ND	ug/Kg dry	4.6	1	06/08/06
n-Propylbenzene	ND	ug/Kg dry	4.6	1	06/08/06
sec-Butylbenzene	ND	ug/Kg dry	4.6	1	06/08/06
Styrene	ND	ug/Kg dry	4.6	1	06/08/06
tert-Butylbenzene	ND	ug/Kg dry	4.6	1	06/08/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	4.6	1	06/08/06
Tetrachloroethene	ND	ug/Kg dry	4.6	1	06/08/06
Tetrahydrofuran	ND	ug/Kg dry	4.6	1	06/08/06
Toluene	ND	ug/Kg dry	4.6	1	06/08/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	4.6	1	06/08/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	4.6	1	06/08/06
Trichloroethene	ND	ug/Kg dry	4.6	1	06/08/06
Trichlorofluoromethane	ND	ug/Kg dry	4.6	1	06/08/06
Vinyl Chloride	ND	ug/Kg dry	9.3	1	06/08/06
Xylene O	ND	ug/Kg dry	4.6	1	06/08/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI006
Date Sampled: 06/05/06 15:05
Percent Solids: 78
Initial Volume: 6.9
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-01
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	9.3	1	06/08/06
Xylenes (Total)	ND	ug/Kg dry	13.9		06/08/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*94 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*87 %*		*70-130*
Surrogate: Dibromofluoromethane	*101 %*		*70-130*
Surrogate: Toluene-d8	*101 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI005
Date Sampled: 06/05/06 15:30
Percent Solids: 53
Initial Volume: 6.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-02
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	7.7	1	06/08/06
1,1,1-Trichloroethane	ND	ug/Kg dry	7.7	1	06/08/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	7.7	1	06/08/06
1,1,2-Trichloroethane	ND	ug/Kg dry	7.7	1	06/08/06
1,1-Dichloroethane	ND	ug/Kg dry	7.7	1	06/08/06
1,1-Dichloroethene	ND	ug/Kg dry	7.7	1	06/08/06
1,1-Dichloropropene	ND	ug/Kg dry	7.7	1	06/08/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	7.7	1	06/08/06
1,2,3-Trichloropropane	ND	ug/Kg dry	7.7	1	06/08/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	7.7	1	06/08/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	7.7	1	06/08/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	7.7	1	06/08/06
1,2-Dibromoethane	ND	ug/Kg dry	7.7	1	06/08/06
1,2-Dichlorobenzene	ND	ug/Kg dry	7.7	1	06/08/06
1,2-Dichloroethane	ND	ug/Kg dry	7.7	1	06/08/06
1,2-Dichloropropane	ND	ug/Kg dry	7.7	1	06/08/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	7.7	1	06/08/06
1,3-Dichlorobenzene	ND	ug/Kg dry	7.7	1	06/08/06
1,3-Dichloropropane	ND	ug/Kg dry	7.7	1	06/08/06
1,4-Dichlorobenzene	ND	ug/Kg dry	7.7	1	06/08/06
1,4-Dioxane - Screen	ND	ug/Kg dry	387	1	06/08/06
1-Chlorohexane	ND	ug/Kg dry	7.7	1	06/08/06
2,2-Dichloropropane	ND	ug/Kg dry	7.7	1	06/08/06
2-Butanone	ND	ug/Kg dry	77.3	1	06/08/06
2-Chlorotoluene	ND	ug/Kg dry	7.7	1	06/08/06
2-Hexanone	ND	ug/Kg dry	77.3	1	06/08/06
4-Chlorotoluene	ND	ug/Kg dry	7.7	1	06/08/06
4-Isopropyltoluene	ND	ug/Kg dry	7.7	1	06/08/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	77.3	1	06/08/06
Acetone	ND	ug/Kg dry	77.3	1	06/08/06
Benzene	ND	ug/Kg dry	7.7	1	06/08/06
Bromobenzene	ND	ug/Kg dry	7.7	1	06/08/06
Bromochloromethane	ND	ug/Kg dry	7.7	1	06/08/06
Bromodichloromethane	ND	ug/Kg dry	7.7	1	06/08/06
Bromoform	ND	ug/Kg dry	7.7	1	06/08/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI005
Date Sampled: 06/05/06 15:30
Percent Solids: 53
Initial Volume: 6.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-02
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	15.5	1	06/08/06
Carbon Disulfide	ND	ug/Kg dry	7.7	1	06/08/06
Carbon Tetrachloride	ND	ug/Kg dry	7.7	1	06/08/06
Chlorobenzene	ND	ug/Kg dry	7.7	1	06/08/06
Chloroethane	ND	ug/Kg dry	15.5	1	06/08/06
Chloroform	ND	ug/Kg dry	7.7	1	06/08/06
Chloromethane	ND	ug/Kg dry	15.5	1	06/08/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	7.7	1	06/08/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	7.7	1	06/08/06
Dibromochloromethane	ND	ug/Kg dry	7.7	1	06/08/06
Dibromomethane	ND	ug/Kg dry	7.7	1	06/08/06
Dichlorodifluoromethane	ND	ug/Kg dry	15.5	1	06/08/06
Diethyl Ether	ND	ug/Kg dry	7.7	1	06/08/06
Di-isopropyl ether	ND	ug/Kg dry	7.7	1	06/08/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	7.7	1	06/08/06
Ethylbenzene	ND	ug/Kg dry	7.7	1	06/08/06
Hexachlorobutadiene	ND	ug/Kg dry	7.7	1	06/08/06
Isopropylbenzene	ND	ug/Kg dry	7.7	1	06/08/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	7.7	1	06/08/06
Methylene Chloride	ND	ug/Kg dry	38.7	1	06/08/06
Naphthalene	ND	ug/Kg dry	7.7	1	06/08/06
n-Butylbenzene	ND	ug/Kg dry	7.7	1	06/08/06
n-Propylbenzene	ND	ug/Kg dry	7.7	1	06/08/06
sec-Butylbenzene	ND	ug/Kg dry	7.7	1	06/08/06
Styrene	ND	ug/Kg dry	7.7	1	06/08/06
tert-Butylbenzene	ND	ug/Kg dry	7.7	1	06/08/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	7.7	1	06/08/06
Tetrachloroethene	ND	ug/Kg dry	7.7	1	06/08/06
Tetrahydrofuran	ND	ug/Kg dry	7.7	1	06/08/06
Toluene	ND	ug/Kg dry	7.7	1	06/08/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	7.7	1	06/08/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	7.7	1	06/08/06
Trichloroethene	ND	ug/Kg dry	7.7	1	06/08/06
Trichlorofluoromethane	ND	ug/Kg dry	7.7	1	06/08/06
Vinyl Chloride	ND	ug/Kg dry	15.5	1	06/08/06
Xylene O	ND	ug/Kg dry	7.7	1	06/08/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI005
Date Sampled: 06/05/06 15:30
Percent Solids: 53
Initial Volume: 6.1
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-02
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	15.5	1	06/08/06
Xylenes (Total)	ND	ug/Kg dry	23.2		06/08/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*94 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*90 %*		*70-130*
Surrogate: Dibromofluoromethane	*100 %*		*70-130*
Surrogate: Toluene-d8	*99 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI004
Date Sampled: 06/05/06 15:50
Percent Solids: 82
Initial Volume: 6.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-03
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	4.6	1	06/07/06
1,1,1-Trichloroethane	ND	ug/Kg dry	4.6	1	06/07/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	4.6	1	06/07/06
1,1,2-Trichloroethane	ND	ug/Kg dry	4.6	1	06/07/06
1,1-Dichloroethane	ND	ug/Kg dry	4.6	1	06/07/06
1,1-Dichloroethene	ND	ug/Kg dry	4.6	1	06/07/06
1,1-Dichloropropene	ND	ug/Kg dry	4.6	1	06/07/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	4.6	1	06/07/06
1,2,3-Trichloropropane	ND	ug/Kg dry	4.6	1	06/07/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	4.6	1	06/07/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	4.6	1	06/07/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	4.6	1	06/07/06
1,2-Dibromoethane	ND	ug/Kg dry	4.6	1	06/07/06
1,2-Dichlorobenzene	ND	ug/Kg dry	4.6	1	06/07/06
1,2-Dichloroethane	ND	ug/Kg dry	4.6	1	06/07/06
1,2-Dichloropropane	ND	ug/Kg dry	4.6	1	06/07/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	4.6	1	06/07/06
1,3-Dichlorobenzene	ND	ug/Kg dry	4.6	1	06/07/06
1,3-Dichloropropane	ND	ug/Kg dry	4.6	1	06/07/06
1,4-Dichlorobenzene	ND	ug/Kg dry	4.6	1	06/07/06
1,4-Dioxane - Screen	ND	ug/Kg dry	231	1	06/07/06
1-Chlorohexane	ND	ug/Kg dry	4.6	1	06/07/06
2,2-Dichloropropane	ND	ug/Kg dry	4.6	1	06/07/06
2-Butanone	ND	ug/Kg dry	46.2	1	06/07/06
2-Chlorotoluene	ND	ug/Kg dry	4.6	1	06/07/06
2-Hexanone	ND	ug/Kg dry	46.2	1	06/07/06
4-Chlorotoluene	ND	ug/Kg dry	4.6	1	06/07/06
4-Isopropyltoluene	ND	ug/Kg dry	4.6	1	06/07/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	46.2	1	06/07/06
Acetone	ND	ug/Kg dry	46.2	1	06/07/06
Benzene	ND	ug/Kg dry	4.6	1	06/07/06
Bromobenzene	ND	ug/Kg dry	4.6	1	06/07/06
Bromochloromethane	ND	ug/Kg dry	4.6	1	06/07/06
Bromodichloromethane	ND	ug/Kg dry	4.6	1	06/07/06
Bromoform	ND	ug/Kg dry	4.6	1	06/07/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI004
Date Sampled: 06/05/06 15:50
Percent Solids: 82
Initial Volume: 6.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-03
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	9.2	1	06/07/06
Carbon Disulfide	ND	ug/Kg dry	4.6	1	06/07/06
Carbon Tetrachloride	ND	ug/Kg dry	4.6	1	06/07/06
Chlorobenzene	ND	ug/Kg dry	4.6	1	06/07/06
Chloroethane	ND	ug/Kg dry	9.2	1	06/07/06
Chloroform	ND	ug/Kg dry	4.6	1	06/07/06
Chloromethane	ND	ug/Kg dry	9.2	1	06/07/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	4.6	1	06/07/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	4.6	1	06/07/06
Dibromochloromethane	ND	ug/Kg dry	4.6	1	06/07/06
Dibromomethane	ND	ug/Kg dry	4.6	1	06/07/06
Dichlorodifluoromethane	ND	ug/Kg dry	9.2	1	06/07/06
Diethyl Ether	ND	ug/Kg dry	4.6	1	06/07/06
Di-isopropyl ether	ND	ug/Kg dry	4.6	1	06/07/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	4.6	1	06/07/06
Ethylbenzene	ND	ug/Kg dry	4.6	1	06/07/06
Hexachlorobutadiene	ND	ug/Kg dry	4.6	1	06/07/06
Isopropylbenzene	ND	ug/Kg dry	4.6	1	06/07/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	4.6	1	06/07/06
Methylene Chloride	ND	ug/Kg dry	23.1	1	06/07/06
Naphthalene	ND	ug/Kg dry	4.6	1	06/07/06
n-Butylbenzene	ND	ug/Kg dry	4.6	1	06/07/06
n-Propylbenzene	ND	ug/Kg dry	4.6	1	06/07/06
sec-Butylbenzene	ND	ug/Kg dry	4.6	1	06/07/06
Styrene	ND	ug/Kg dry	4.6	1	06/07/06
tert-Butylbenzene	ND	ug/Kg dry	4.6	1	06/07/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	4.6	1	06/07/06
Tetrachloroethene	ND	ug/Kg dry	4.6	1	06/07/06
Tetrahydrofuran	ND	ug/Kg dry	4.6	1	06/07/06
Toluene	ND	ug/Kg dry	4.6	1	06/07/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	4.6	1	06/07/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	4.6	1	06/07/06
Trichloroethene	ND	ug/Kg dry	4.6	1	06/07/06
Trichlorofluoromethane	ND	ug/Kg dry	4.6	1	06/07/06
Vinyl Chloride	ND	ug/Kg dry	9.2	1	06/07/06
Xylene O	ND	ug/Kg dry	4.6	1	06/07/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI004
Date Sampled: 06/05/06 15:50
Percent Solids: 82
Initial Volume: 6.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-03
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	9.2		1	06/07/06
Xylenes (Total)	ND	ug/Kg dry	13.8			06/07/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*96 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*85 %*		*70-130*
Surrogate: Dibromofluoromethane	*102 %*		*70-130*
Surrogate: Toluene-d8	*102 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008
Date Sampled: 06/06/06 14:52
Percent Solids: 65
Initial Volume: 5.9
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-04
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	6.5	1	06/07/06
1,1,1-Trichloroethane	**145**	ug/Kg dry	6.5	1	06/07/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	6.5	1	06/07/06
1,1,2-Trichloroethane	ND	ug/Kg dry	6.5	1	06/07/06
1,1-Dichloroethane	**6.8**	ug/Kg dry	6.5	1	06/07/06
1,1-Dichloroethene	ND	ug/Kg dry	6.5	1	06/07/06
1,1-Dichloropropene	ND	ug/Kg dry	6.5	1	06/07/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	6.5	1	06/07/06
1,2,3-Trichloropropane	ND	ug/Kg dry	6.5	1	06/07/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	6.5	1	06/07/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	6.5	1	06/07/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	6.5	1	06/07/06
1,2-Dibromoethane	ND	ug/Kg dry	6.5	1	06/07/06
1,2-Dichlorobenzene	ND	ug/Kg dry	6.5	1	06/07/06
1,2-Dichloroethane	ND	ug/Kg dry	6.5	1	06/07/06
1,2-Dichloropropane	ND	ug/Kg dry	6.5	1	06/07/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	6.5	1	06/07/06
1,3-Dichlorobenzene	ND	ug/Kg dry	6.5	1	06/07/06
1,3-Dichloropropane	ND	ug/Kg dry	6.5	1	06/07/06
1,4-Dichlorobenzene	ND	ug/Kg dry	6.5	1	06/07/06
1,4-Dioxane - Screen	ND	ug/Kg dry	326	1	06/07/06
1-Chlorohexane	ND	ug/Kg dry	6.5	1	06/07/06
2,2-Dichloropropane	ND	ug/Kg dry	6.5	1	06/07/06
2-Butanone	ND	ug/Kg dry	65.2	1	06/07/06
2-Chlorotoluene	ND	ug/Kg dry	6.5	1	06/07/06
2-Hexanone	ND	ug/Kg dry	65.2	1	06/07/06
4-Chlorotoluene	ND	ug/Kg dry	6.5	1	06/07/06
4-Isopropyltoluene	ND	ug/Kg dry	6.5	1	06/07/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	65.2	1	06/07/06
Acetone	ND	ug/Kg dry	65.2	1	06/07/06
Benzene	ND	ug/Kg dry	6.5	1	06/07/06
Bromobenzene	ND	ug/Kg dry	6.5	1	06/07/06
Bromochloromethane	ND	ug/Kg dry	6.5	1	06/07/06
Bromodichloromethane	ND	ug/Kg dry	6.5	1	06/07/06
Bromoform	ND	ug/Kg dry	6.5	1	06/07/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008
Date Sampled: 06/06/06 14:52
Percent Solids: 65
Initial Volume: 5.9
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-04
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	13.0	1	06/07/06
Carbon Disulfide	ND	ug/Kg dry	6.5	1	06/07/06
Carbon Tetrachloride	ND	ug/Kg dry	6.5	1	06/07/06
Chlorobenzene	ND	ug/Kg dry	6.5	1	06/07/06
Chloroethane	ND	ug/Kg dry	13.0	1	06/07/06
Chloroform	ND	ug/Kg dry	6.5	1	06/07/06
Chloromethane	ND	ug/Kg dry	13.0	1	06/07/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	6.5	1	06/07/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	6.5	1	06/07/06
Dibromochloromethane	ND	ug/Kg dry	6.5	1	06/07/06
Dibromomethane	ND	ug/Kg dry	6.5	1	06/07/06
Dichlorodifluoromethane	ND	ug/Kg dry	13.0	1	06/07/06
Diethyl Ether	ND	ug/Kg dry	6.5	1	06/07/06
Di-isopropyl ether	ND	ug/Kg dry	6.5	1	06/07/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	6.5	1	06/07/06
Ethylbenzene	ND	ug/Kg dry	6.5	1	06/07/06
Hexachlorobutadiene	ND	ug/Kg dry	6.5	1	06/07/06
Isopropylbenzene	ND	ug/Kg dry	6.5	1	06/07/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	6.5	1	06/07/06
Methylene Chloride	ND	ug/Kg dry	32.6	1	06/07/06
Naphthalene	ND	ug/Kg dry	6.5	1	06/07/06
n-Butylbenzene	ND	ug/Kg dry	6.5	1	06/07/06
n-Propylbenzene	ND	ug/Kg dry	6.5	1	06/07/06
sec-Butylbenzene	ND	ug/Kg dry	6.5	1	06/07/06
Styrene	ND	ug/Kg dry	6.5	1	06/07/06
tert-Butylbenzene	ND	ug/Kg dry	6.5	1	06/07/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	6.5	1	06/07/06
Tetrachloroethene	ND	ug/Kg dry	6.5	1	06/07/06
Tetrahydrofuran	ND	ug/Kg dry	6.5	1	06/07/06
Toluene	ND	ug/Kg dry	6.5	1	06/07/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	6.5	1	06/07/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	6.5	1	06/07/06
Trichloroethene	**62.8**	ug/Kg dry	6.5	1	06/07/06
Trichlorofluoromethane	ND	ug/Kg dry	6.5	1	06/07/06
Vinyl Chloride	ND	ug/Kg dry	13.0	1	06/07/06
Xylene O	ND	ug/Kg dry	6.5	1	06/07/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008
Date Sampled: 06/06/06 14:52
Percent Solids: 65
Initial Volume: 5.9
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-04
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	13.0	1	06/07/06
Xylenes (Total)	ND	ug/Kg dry	19.5		06/07/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*91 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*89 %*		*70-130*
Surrogate: Dibromofluoromethane	*97 %*		*70-130*
Surrogate: Toluene-d8	*99 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008 DUP
Date Sampled: 06/06/06 14:52
Percent Solids: 63
Initial Volume: 6.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-05
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	6.4	1	06/08/06
1,1,1-Trichloroethane	**222**	ug/Kg dry	6.4	1	06/08/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	6.4	1	06/08/06
1,1,2-Trichloroethane	ND	ug/Kg dry	6.4	1	06/08/06
1,1-Dichloroethane	**11.4**	ug/Kg dry	6.4	1	06/08/06
1,1-Dichloroethene	ND	ug/Kg dry	6.4	1	06/08/06
1,1-Dichloropropene	ND	ug/Kg dry	6.4	1	06/08/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	6.4	1	06/08/06
1,2,3-Trichloropropane	ND	ug/Kg dry	6.4	1	06/08/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	6.4	1	06/08/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	6.4	1	06/08/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	6.4	1	06/08/06
1,2-Dibromoethane	ND	ug/Kg dry	6.4	1	06/08/06
1,2-Dichlorobenzene	ND	ug/Kg dry	6.4	1	06/08/06
1,2-Dichloroethane	ND	ug/Kg dry	6.4	1	06/08/06
1,2-Dichloropropane	ND	ug/Kg dry	6.4	1	06/08/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	6.4	1	06/08/06
1,3-Dichlorobenzene	ND	ug/Kg dry	6.4	1	06/08/06
1,3-Dichloropropane	ND	ug/Kg dry	6.4	1	06/08/06
1,4-Dichlorobenzene	ND	ug/Kg dry	6.4	1	06/08/06
1,4-Dioxane - Screen	ND	ug/Kg dry	320	1	06/08/06
1-Chlorohexane	ND	ug/Kg dry	6.4	1	06/08/06
2,2-Dichloropropane	ND	ug/Kg dry	6.4	1	06/08/06
2-Butanone	ND	ug/Kg dry	64.0	1	06/08/06
2-Chlorotoluene	ND	ug/Kg dry	6.4	1	06/08/06
2-Hexanone	ND	ug/Kg dry	64.0	1	06/08/06
4-Chlorotoluene	ND	ug/Kg dry	6.4	1	06/08/06
4-Isopropyltoluene	ND	ug/Kg dry	6.4	1	06/08/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	64.0	1	06/08/06
Acetone	ND	ug/Kg dry	64.0	1	06/08/06
Benzene	ND	ug/Kg dry	6.4	1	06/08/06
Bromobenzene	ND	ug/Kg dry	6.4	1	06/08/06
Bromochloromethane	ND	ug/Kg dry	6.4	1	06/08/06
Bromodichloromethane	ND	ug/Kg dry	6.4	1	06/08/06
Bromoform	ND	ug/Kg dry	6.4	1	06/08/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008 DUP
Date Sampled: 06/06/06 14:52
Percent Solids: 63
Initial Volume: 6.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-05
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	12.8	1	06/08/06
Carbon Disulfide	ND	ug/Kg dry	6.4	1	06/08/06
Carbon Tetrachloride	ND	ug/Kg dry	6.4	1	06/08/06
Chlorobenzene	ND	ug/Kg dry	6.4	1	06/08/06
Chloroethane	ND	ug/Kg dry	12.8	1	06/08/06
Chloroform	ND	ug/Kg dry	6.4	1	06/08/06
Chloromethane	ND	ug/Kg dry	12.8	1	06/08/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	6.4	1	06/08/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	6.4	1	06/08/06
Dibromochloromethane	ND	ug/Kg dry	6.4	1	06/08/06
Dibromomethane	ND	ug/Kg dry	6.4	1	06/08/06
Dichlorodifluoromethane	ND	ug/Kg dry	12.8	1	06/08/06
Diethyl Ether	ND	ug/Kg dry	6.4	1	06/08/06
Di-isopropyl ether	ND	ug/Kg dry	6.4	1	06/08/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	6.4	1	06/08/06
Ethylbenzene	ND	ug/Kg dry	6.4	1	06/08/06
Hexachlorobutadiene	ND	ug/Kg dry	6.4	1	06/08/06
Isopropylbenzene	ND	ug/Kg dry	6.4	1	06/08/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	6.4	1	06/08/06
Methylene Chloride	ND	ug/Kg dry	32.0	1	06/08/06
Naphthalene	ND	ug/Kg dry	6.4	1	06/08/06
n-Butylbenzene	ND	ug/Kg dry	6.4	1	06/08/06
n-Propylbenzene	ND	ug/Kg dry	6.4	1	06/08/06
sec-Butylbenzene	ND	ug/Kg dry	6.4	1	06/08/06
Styrene	ND	ug/Kg dry	6.4	1	06/08/06
tert-Butylbenzene	ND	ug/Kg dry	6.4	1	06/08/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	6.4	1	06/08/06
Tetrachloroethene	ND	ug/Kg dry	6.4	1	06/08/06
Tetrahydrofuran	ND	ug/Kg dry	6.4	1	06/08/06
Toluene	ND	ug/Kg dry	6.4	1	06/08/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	6.4	1	06/08/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	6.4	1	06/08/06
Trichloroethene	**85.5**	ug/Kg dry	6.4	1	06/08/06
Trichlorofluoromethane	ND	ug/Kg dry	6.4	1	06/08/06
Vinyl Chloride	ND	ug/Kg dry	12.8	1	06/08/06
Xylene O	ND	ug/Kg dry	6.4	1	06/08/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008 DUP
Date Sampled: 06/06/06 14:52
Percent Solids: 63
Initial Volume: 6.2
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-05
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	12.8	1	06/08/06
Xylenes (Total)	ND	ug/Kg dry	19.2		06/08/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*91 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*84 %*		*70-130*
Surrogate: Dibromofluoromethane	*98 %*		*70-130*
Surrogate: Toluene-d8	*104 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI010
Date Sampled: 06/06/06 08:31
Percent Solids: 88
Initial Volume: 5.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-08
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	5.4	1	06/07/06
1,1,1-Trichloroethane	ND	ug/Kg dry	5.4	1	06/07/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	5.4	1	06/07/06
1,1,2-Trichloroethane	ND	ug/Kg dry	5.4	1	06/07/06
1,1-Dichloroethane	ND	ug/Kg dry	5.4	1	06/07/06
1,1-Dichloroethene	ND	ug/Kg dry	5.4	1	06/07/06
1,1-Dichloropropene	ND	ug/Kg dry	5.4	1	06/07/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	5.4	1	06/07/06
1,2,3-Trichloropropane	ND	ug/Kg dry	5.4	1	06/07/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	5.4	1	06/07/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	5.4	1	06/07/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	5.4	1	06/07/06
1,2-Dibromoethane	ND	ug/Kg dry	5.4	1	06/07/06
1,2-Dichlorobenzene	ND	ug/Kg dry	5.4	1	06/07/06
1,2-Dichloroethane	ND	ug/Kg dry	5.4	1	06/07/06
1,2-Dichloropropane	ND	ug/Kg dry	5.4	1	06/07/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	5.4	1	06/07/06
1,3-Dichlorobenzene	ND	ug/Kg dry	5.4	1	06/07/06
1,3-Dichloropropane	ND	ug/Kg dry	5.4	1	06/07/06
1,4-Dichlorobenzene	ND	ug/Kg dry	5.4	1	06/07/06
1,4-Dioxane - Screen	ND	ug/Kg dry	268	1	06/07/06
1-Chlorohexane	ND	ug/Kg dry	5.4	1	06/07/06
2,2-Dichloropropane	ND	ug/Kg dry	5.4	1	06/07/06
2-Butanone	ND	ug/Kg dry	53.6	1	06/07/06
2-Chlorotoluene	ND	ug/Kg dry	5.4	1	06/07/06
2-Hexanone	ND	ug/Kg dry	53.6	1	06/07/06
4-Chlorotoluene	ND	ug/Kg dry	5.4	1	06/07/06
4-Isopropyltoluene	ND	ug/Kg dry	5.4	1	06/07/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	53.6	1	06/07/06
Acetone	ND	ug/Kg dry	53.6	1	06/07/06
Benzene	ND	ug/Kg dry	5.4	1	06/07/06
Bromobenzene	ND	ug/Kg dry	5.4	1	06/07/06
Bromochloromethane	ND	ug/Kg dry	5.4	1	06/07/06
Bromodichloromethane	ND	ug/Kg dry	5.4	1	06/07/06
Bromoform	ND	ug/Kg dry	5.4	1	06/07/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI010
Date Sampled: 06/06/06 08:31
Percent Solids: 88
Initial Volume: 5.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-08
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	10.7	1	06/07/06
Carbon Disulfide	ND	ug/Kg dry	5.4	1	06/07/06
Carbon Tetrachloride	ND	ug/Kg dry	5.4	1	06/07/06
Chlorobenzene	ND	ug/Kg dry	5.4	1	06/07/06
Chloroethane	ND	ug/Kg dry	10.7	1	06/07/06
Chloroform	ND	ug/Kg dry	5.4	1	06/07/06
Chloromethane	ND	ug/Kg dry	10.7	1	06/07/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	5.4	1	06/07/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	5.4	1	06/07/06
Dibromochloromethane	ND	ug/Kg dry	5.4	1	06/07/06
Dibromomethane	ND	ug/Kg dry	5.4	1	06/07/06
Dichlorodifluoromethane	ND	ug/Kg dry	10.7	1	06/07/06
Diethyl Ether	ND	ug/Kg dry	5.4	1	06/07/06
Di-isopropyl ether	ND	ug/Kg dry	5.4	1	06/07/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	5.4	1	06/07/06
Ethylbenzene	ND	ug/Kg dry	5.4	1	06/07/06
Hexachlorobutadiene	ND	ug/Kg dry	5.4	1	06/07/06
Isopropylbenzene	ND	ug/Kg dry	5.4	1	06/07/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	5.4	1	06/07/06
Methylene Chloride	ND	ug/Kg dry	26.8	1	06/07/06
Naphthalene	**7.5**	ug/Kg dry	5.4	1	06/07/06
n-Butylbenzene	ND	ug/Kg dry	5.4	1	06/07/06
n-Propylbenzene	ND	ug/Kg dry	5.4	1	06/07/06
sec-Butylbenzene	ND	ug/Kg dry	5.4	1	06/07/06
Styrene	ND	ug/Kg dry	5.4	1	06/07/06
tert-Butylbenzene	ND	ug/Kg dry	5.4	1	06/07/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	5.4	1	06/07/06
Tetrachloroethene	**10.5**	ug/Kg dry	5.4	1	06/07/06
Tetrahydrofuran	ND	ug/Kg dry	5.4	1	06/07/06
Toluene	ND	ug/Kg dry	5.4	1	06/07/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	5.4	1	06/07/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	5.4	1	06/07/06
Trichloroethene	ND	ug/Kg dry	5.4	1	06/07/06
Trichlorofluoromethane	ND	ug/Kg dry	5.4	1	06/07/06
Vinyl Chloride	ND	ug/Kg dry	5.4	1	06/07/06
Xylene O	ND	ug/Kg dry	5.4	1	06/07/06

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI010
Date Sampled: 06/06/06 08:31
Percent Solids: 88
Initial Volume: 5.3
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-08
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	10.7	1	06/07/06
Xylenes (Total)	ND	ug/Kg dry	16.1		06/07/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*92 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*87 %*		*70-130*
Surrogate: Dibromofluoromethane	*100 %*		*70-130*
Surrogate: Toluene-d8	*102 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI003
Date Sampled: 06/06/06 09:16
Percent Solids: 88
Initial Volume: 5.4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-09
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	5.3	1	06/07/06
1,1,1-Trichloroethane	ND	ug/Kg dry	5.3	1	06/07/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	5.3	1	06/07/06
1,1,2-Trichloroethane	ND	ug/Kg dry	5.3	1	06/07/06
1,1-Dichloroethane	ND	ug/Kg dry	5.3	1	06/07/06
1,1-Dichloroethene	ND	ug/Kg dry	5.3	1	06/07/06
1,1-Dichloropropene	ND	ug/Kg dry	5.3	1	06/07/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	5.3	1	06/07/06
1,2,3-Trichloropropane	ND	ug/Kg dry	5.3	1	06/07/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	5.3	1	06/07/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	5.3	1	06/07/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	5.3	1	06/07/06
1,2-Dibromoethane	ND	ug/Kg dry	5.3	1	06/07/06
1,2-Dichlorobenzene	ND	ug/Kg dry	5.3	1	06/07/06
1,2-Dichloroethane	ND	ug/Kg dry	5.3	1	06/07/06
1,2-Dichloropropane	ND	ug/Kg dry	5.3	1	06/07/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	5.3	1	06/07/06
1,3-Dichlorobenzene	ND	ug/Kg dry	5.3	1	06/07/06
1,3-Dichloropropane	ND	ug/Kg dry	5.3	1	06/07/06
1,4-Dichlorobenzene	ND	ug/Kg dry	5.3	1	06/07/06
1,4-Dioxane - Screen	ND	ug/Kg dry	263	1	06/07/06
1-Chlorohexane	ND	ug/Kg dry	5.3	1	06/07/06
2,2-Dichloropropane	ND	ug/Kg dry	5.3	1	06/07/06
2-Butanone	ND	ug/Kg dry	52.6	1	06/07/06
2-Chlorotoluene	ND	ug/Kg dry	5.3	1	06/07/06
2-Hexanone	ND	ug/Kg dry	52.6	1	06/07/06
4-Chlorotoluene	ND	ug/Kg dry	5.3	1	06/07/06
4-Isopropyltoluene	ND	ug/Kg dry	5.3	1	06/07/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	52.6	1	06/07/06
Acetone	ND	ug/Kg dry	52.6	1	06/07/06
Benzene	ND	ug/Kg dry	5.3	1	06/07/06
Bromobenzene	ND	ug/Kg dry	5.3	1	06/07/06
Bromochloromethane	ND	ug/Kg dry	5.3	1	06/07/06
Bromodichloromethane	ND	ug/Kg dry	5.3	1	06/07/06
Bromoform	ND	ug/Kg dry	5.3	1	06/07/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI003
Date Sampled: 06/06/06 09:16
Percent Solids: 88
Initial Volume: 5.4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-09
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	10.5	1	06/07/06
Carbon Disulfide	ND	ug/Kg dry	5.3	1	06/07/06
Carbon Tetrachloride	ND	ug/Kg dry	5.3	1	06/07/06
Chlorobenzene	ND	ug/Kg dry	5.3	1	06/07/06
Chloroethane	ND	ug/Kg dry	10.5	1	06/07/06
Chloroform	ND	ug/Kg dry	5.3	1	06/07/06
Chloromethane	ND	ug/Kg dry	10.5	1	06/07/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	5.3	1	06/07/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	5.3	1	06/07/06
Dibromochloromethane	ND	ug/Kg dry	5.3	1	06/07/06
Dibromomethane	ND	ug/Kg dry	5.3	1	06/07/06
Dichlorodifluoromethane	ND	ug/Kg dry	10.5	1	06/07/06
Diethyl Ether	ND	ug/Kg dry	5.3	1	06/07/06
Di-isopropyl ether	ND	ug/Kg dry	5.3	1	06/07/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	5.3	1	06/07/06
Ethylbenzene	ND	ug/Kg dry	5.3	1	06/07/06
Hexachlorobutadiene	ND	ug/Kg dry	5.3	1	06/07/06
Isopropylbenzene	ND	ug/Kg dry	5.3	1	06/07/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	5.3	1	06/07/06
Methylene Chloride	ND	ug/Kg dry	26.3	1	06/07/06
Naphthalene	ND	ug/Kg dry	5.3	1	06/07/06
n-Butylbenzene	ND	ug/Kg dry	5.3	1	06/07/06
n-Propylbenzene	ND	ug/Kg dry	5.3	1	06/07/06
sec-Butylbenzene	ND	ug/Kg dry	5.3	1	06/07/06
Styrene	ND	ug/Kg dry	5.3	1	06/07/06
tert-Butylbenzene	ND	ug/Kg dry	5.3	1	06/07/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	5.3	1	06/07/06
Tetrachloroethene	ND	ug/Kg dry	5.3	1	06/07/06
Tetrahydrofuran	ND	ug/Kg dry	5.3	1	06/07/06
Toluene	ND	ug/Kg dry	5.3	1	06/07/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	5.3	1	06/07/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	5.3	1	06/07/06
Trichloroethene	ND	ug/Kg dry	5.3	1	06/07/06
Trichlorofluoromethane	ND	ug/Kg dry	5.3	1	06/07/06
Vinyl Chloride	ND	ug/Kg dry	10.5	1	06/07/06
Xylene O	ND	ug/Kg dry	5.3	1	06/07/06

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI003
Date Sampled: 06/06/06 09:16
Percent Solids: 88
Initial Volume: 5.4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-09
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	10.5	1	06/07/06
Xylenes (Total)	ND	ug/Kg dry	15.8		06/07/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*94 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*87 %*		*70-130*
Surrogate: Dibromofluoromethane	*100 %*		*70-130*
Surrogate: Toluene-d8	*102 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI011
Date Sampled: 06/06/06 08:11
Percent Solids: 76
Initial Volume: 6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-10
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	5.5	1	06/07/06
1,1,1-Trichloroethane	ND	ug/Kg dry	5.5	1	06/07/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	5.5	1	06/07/06
1,1,2-Trichloroethane	ND	ug/Kg dry	5.5	1	06/07/06
1,1-Dichloroethane	ND	ug/Kg dry	5.5	1	06/07/06
1,1-Dichloroethene	ND	ug/Kg dry	5.5	1	06/07/06
1,1-Dichloropropene	ND	ug/Kg dry	5.5	1	06/07/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	5.5	1	06/07/06
1,2,3-Trichloropropane	ND	ug/Kg dry	5.5	1	06/07/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	5.5	1	06/07/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	5.5	1	06/07/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	5.5	1	06/07/06
1,2-Dibromoethane	ND	ug/Kg dry	5.5	1	06/07/06
1,2-Dichlorobenzene	ND	ug/Kg dry	5.5	1	06/07/06
1,2-Dichloroethane	ND	ug/Kg dry	5.5	1	06/07/06
1,2-Dichloropropane	ND	ug/Kg dry	5.5	1	06/07/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	5.5	1	06/07/06
1,3-Dichlorobenzene	ND	ug/Kg dry	5.5	1	06/07/06
1,3-Dichloropropane	ND	ug/Kg dry	5.5	1	06/07/06
1,4-Dichlorobenzene	ND	ug/Kg dry	5.5	1	06/07/06
1,4-Dioxane - Screen	ND	ug/Kg dry	274	1	06/07/06
1-Chlorohexane	ND	ug/Kg dry	5.5	1	06/07/06
2,2-Dichloropropane	ND	ug/Kg dry	5.5	1	06/07/06
2-Butanone	ND	ug/Kg dry	54.8	1	06/07/06
2-Chlorotoluene	ND	ug/Kg dry	5.5	1	06/07/06
2-Hexanone	ND	ug/Kg dry	54.8	1	06/07/06
4-Chlorotoluene	ND	ug/Kg dry	5.5	1	06/07/06
4-Isopropyltoluene	ND	ug/Kg dry	5.5	1	06/07/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	54.8	1	06/07/06
Acetone	ND	ug/Kg dry	54.8	1	06/07/06
Benzene	ND	ug/Kg dry	5.5	1	06/07/06
Bromobenzene	ND	ug/Kg dry	5.5	1	06/07/06
Bromochloromethane	ND	ug/Kg dry	5.5	1	06/07/06
Bromodichloromethane	ND	ug/Kg dry	5.5	1	06/07/06
Bromoform	ND	ug/Kg dry	5.5	1	06/07/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI011
Date Sampled: 06/06/06 08:11
Percent Solids: 76
Initial Volume: 6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-10
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	11.0	1	06/07/06
Carbon Disulfide	ND	ug/Kg dry	5.5	1	06/07/06
Carbon Tetrachloride	ND	ug/Kg dry	5.5	1	06/07/06
Chlorobenzene	ND	ug/Kg dry	5.5	1	06/07/06
Chloroethane	ND	ug/Kg dry	11.0	1	06/07/06
Chloroform	ND	ug/Kg dry	5.5	1	06/07/06
Chloromethane	ND	ug/Kg dry	11.0	1	06/07/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	5.5	1	06/07/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	5.5	1	06/07/06
Dibromochloromethane	ND	ug/Kg dry	5.5	1	06/07/06
Dibromomethane	ND	ug/Kg dry	5.5	1	06/07/06
Dichlorodifluoromethane	ND	ug/Kg dry	11.0	1	06/07/06
Diethyl Ether	ND	ug/Kg dry	5.5	1	06/07/06
Di-isopropyl ether	ND	ug/Kg dry	5.5	1	06/07/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	5.5	1	06/07/06
Ethylbenzene	ND	ug/Kg dry	5.5	1	06/07/06
Hexachlorobutadiene	ND	ug/Kg dry	5.5	1	06/07/06
Isopropylbenzene	ND	ug/Kg dry	5.5	1	06/07/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	5.5	1	06/07/06
Methylene Chloride	ND	ug/Kg dry	27.4	1	06/07/06
Naphthalene	ND	ug/Kg dry	5.5	1	06/07/06
n-Butylbenzene	ND	ug/Kg dry	5.5	1	06/07/06
n-Propylbenzene	ND	ug/Kg dry	5.5	1	06/07/06
sec-Butylbenzene	ND	ug/Kg dry	5.5	1	06/07/06
Styrene	ND	ug/Kg dry	5.5	1	06/07/06
tert-Butylbenzene	ND	ug/Kg dry	5.5	1	06/07/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	5.5	1	06/07/06
Tetrachloroethene	ND	ug/Kg dry	5.5	1	06/07/06
Tetrahydrofuran	ND	ug/Kg dry	5.5	1	06/07/06
Toluene	ND	ug/Kg dry	5.5	1	06/07/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	5.5	1	06/07/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	5.5	1	06/07/06
Trichloroethene	ND	ug/Kg dry	5.5	1	06/07/06
Trichlorofluoromethane	ND	ug/Kg dry	5.5	1	06/07/06
Vinyl Chloride	ND	ug/Kg dry	11.0	1	06/07/06
Xylene O	ND	ug/Kg dry	5.5	1	06/07/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI011
Date Sampled: 06/06/06 08:11
Percent Solids: 76
Initial Volume: 6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-10
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	11.0	1	06/07/06
Xylenes (Total)	ND	ug/Kg dry	16.5		06/07/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*92 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*89 %*		*70-130*
Surrogate: Dibromofluoromethane	*100 %*		*70-130*
Surrogate: Toluene-d8	*98 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: Trip blank
Date Sampled: 06/06/06 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-13
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg	5.0	1	06/07/06
1,1,1-Trichloroethane	ND	ug/Kg	5.0	1	06/07/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg	5.0	1	06/07/06
1,1,2-Trichloroethane	ND	ug/Kg	5.0	1	06/07/06
1,1-Dichloroethane	ND	ug/Kg	5.0	1	06/07/06
1,1-Dichloroethene	ND	ug/Kg	5.0	1	06/07/06
1,1-Dichloropropene	ND	ug/Kg	5.0	1	06/07/06
1,2,3-Trichlorobenzene	ND	ug/Kg	5.0	1	06/07/06
1,2,3-Trichloropropane	ND	ug/Kg	5.0	1	06/07/06
1,2,4-Trichlorobenzene	ND	ug/Kg	5.0	1	06/07/06
1,2,4-Trimethylbenzene	ND	ug/Kg	5.0	1	06/07/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg	5.0	1	06/07/06
1,2-Dibromoethane	ND	ug/Kg	5.0	1	06/07/06
1,2-Dichlorobenzene	ND	ug/Kg	5.0	1	06/07/06
1,2-Dichloroethane	ND	ug/Kg	5.0	1	06/07/06
1,2-Dichloropropane	ND	ug/Kg	5.0	1	06/07/06
1,3,5-Trimethylbenzene	ND	ug/Kg	5.0	1	06/07/06
1,3-Dichlorobenzene	ND	ug/Kg	5.0	1	06/07/06
1,3-Dichloropropane	ND	ug/Kg	5.0	1	06/07/06
1,4-Dichlorobenzene	ND	ug/Kg	5.0	1	06/07/06
1,4-Dioxane - Screen	ND	ug/Kg	250	1	06/07/06
1-Chlorohexane	ND	ug/Kg	5.0	1	06/07/06
2,2-Dichloropropane	ND	ug/Kg	5.0	1	06/07/06
2-Butanone	ND	ug/Kg	50.0	1	06/07/06
2-Chlorotoluene	ND	ug/Kg	5.0	1	06/07/06
2-Hexanone	ND	ug/Kg	50.0	1	06/07/06
4-Chlorotoluene	ND	ug/Kg	5.0	1	06/07/06
4-Isopropyltoluene	ND	ug/Kg	5.0	1	06/07/06
4-Methyl-2-Pentanone	ND	ug/Kg	50.0	1	06/07/06
Acetone	ND	ug/Kg	50.0	1	06/07/06
Benzene	ND	ug/Kg	5.0	1	06/07/06
Bromobenzene	ND	ug/Kg	5.0	1	06/07/06
Bromochloromethane	ND	ug/Kg	5.0	1	06/07/06
Bromodichloromethane	ND	ug/Kg	5.0	1	06/07/06
Bromoform	ND	ug/Kg	5.0	1	06/07/06

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: Trip blank
Date Sampled: 06/06/06 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-13
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg	10.0	1	06/07/06
Carbon Disulfide	ND	ug/Kg	5.0	1	06/07/06
Carbon Tetrachloride	ND	ug/Kg	5.0	1	06/07/06
Chlorobenzene	ND	ug/Kg	5.0	1	06/07/06
Chloroethane	ND	ug/Kg	10.0	1	06/07/06
Chloroform	ND	ug/Kg	5.0	1	06/07/06
Chloromethane	ND	ug/Kg	10.0	1	06/07/06
cis-1,2-Dichloroethene	ND	ug/Kg	5.0	1	06/07/06
cis-1,3-Dichloropropene	ND	ug/Kg	5.0	1	06/07/06
Dibromochloromethane	ND	ug/Kg	5.0	1	06/07/06
Dibromomethane	ND	ug/Kg	5.0	1	06/07/06
Dichlorodifluoromethane	ND	ug/Kg	10.0	1	06/07/06
Diethyl Ether	ND	ug/Kg	5.0	1	06/07/06
Di-isopropyl ether	ND	ug/Kg	5.0	1	06/07/06
Ethyl tertiary-butyl ether	ND	ug/Kg	5.0	1	06/07/06
Ethylbenzene	ND	ug/Kg	5.0	1	06/07/06
Hexachlorobutadiene	ND	ug/Kg	5.0	1	06/07/06
Isopropylbenzene	ND	ug/Kg	5.0	1	06/07/06
Methyl tert-Butyl Ether	ND	ug/Kg	5.0	1	06/07/06
Methylene Chloride	ND	ug/Kg	25.0	1	06/07/06
Naphthalene	ND	ug/Kg	5.0	1	06/07/06
n-Butylbenzene	ND	ug/Kg	5.0	1	06/07/06
n-Propylbenzene	ND	ug/Kg	5.0	1	06/07/06
sec-Butylbenzene	ND	ug/Kg	5.0	1	06/07/06
Styrene	ND	ug/Kg	5.0	1	06/07/06
tert-Butylbenzene	ND	ug/Kg	5.0	1	06/07/06
Tertiary-amyl methyl ether	ND	ug/Kg	5.0	1	06/07/06
Tetrachloroethene	ND	ug/Kg	5.0	1	06/07/06
Tetrahydrofuran	ND	ug/Kg	5.0	1	06/07/06
Toluene	ND	ug/Kg	5.0	1	06/07/06
trans-1,2-Dichloroethene	ND	ug/Kg	5.0	1	06/07/06
trans-1,3-Dichloropropene	ND	ug/Kg	5.0	1	06/07/06
Trichloroethene	ND	ug/Kg	5.0	1	06/07/06
Trichlorofluoromethane	ND	ug/Kg	5.0	1	06/07/06
Vinyl Chloride	ND	ug/Kg	10.0	1	06/07/06
Xylene O	ND	ug/Kg	5.0	1	06/07/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: Trip blank
Date Sampled: 06/06/06 00:00
Percent Solids: N/A
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-13
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg	10.0	1	06/07/06
Xylenes (Total)	ND	ug/Kg	7.5		06/07/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*93 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*96 %*		*70-130*
Surrogate: Dibromofluoromethane	*99 %*		*70-130*
Surrogate: Toluene-d8	*94 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI007
Date Sampled: 06/06/06 16:23
Percent Solids: 58
Initial Volume: 4.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-17
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	9.2	1	06/07/06
1,1,1-Trichloroethane	ND	ug/Kg dry	9.2	1	06/07/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	9.2	1	06/07/06
1,1,2-Trichloroethane	ND	ug/Kg dry	9.2	1	06/07/06
1,1-Dichloroethane	ND	ug/Kg dry	9.2	1	06/07/06
1,1-Dichloroethene	ND	ug/Kg dry	9.2	1	06/07/06
1,1-Dichloropropene	ND	ug/Kg dry	9.2	1	06/07/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	9.2	1	06/07/06
1,2,3-Trichloropropane	ND	ug/Kg dry	9.2	1	06/07/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	9.2	1	06/07/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	9.2	1	06/07/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	9.2	1	06/07/06
1,2-Dibromoethane	ND	ug/Kg dry	9.2	1	06/07/06
1,2-Dichlorobenzene	ND	ug/Kg dry	9.2	1	06/07/06
1,2-Dichloroethane	ND	ug/Kg dry	9.2	1	06/07/06
1,2-Dichloropropane	ND	ug/Kg dry	9.2	1	06/07/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	9.2	1	06/07/06
1,3-Dichlorobenzene	ND	ug/Kg dry	9.2	1	06/07/06
1,3-Dichloropropane	ND	ug/Kg dry	9.2	1	06/07/06
1,4-Dichlorobenzene	ND	ug/Kg dry	9.2	1	06/07/06
1,4-Dioxane - Screen	ND	ug/Kg dry	459	1	06/07/06
1-Chlorohexane	ND	ug/Kg dry	9.2	1	06/07/06
2,2-Dichloropropane	ND	ug/Kg dry	9.2	1	06/07/06
2-Butanone	ND	ug/Kg dry	91.7	1	06/07/06
2-Chlorotoluene	ND	ug/Kg dry	9.2	1	06/07/06
2-Hexanone	ND	ug/Kg dry	91.7	1	06/07/06
4-Chlorotoluene	ND	ug/Kg dry	9.2	1	06/07/06
4-Isopropyltoluene	ND	ug/Kg dry	9.2	1	06/07/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	91.7	1	06/07/06
Acetone	ND	ug/Kg dry	91.7	1	06/07/06
Benzene	ND	ug/Kg dry	9.2	1	06/07/06
Bromobenzene	ND	ug/Kg dry	9.2	1	06/07/06
Bromochloromethane	ND	ug/Kg dry	9.2	1	06/07/06
Bromodichloromethane	ND	ug/Kg dry	9.2	1	06/07/06
Bromoform	ND	ug/Kg dry	9.2	1	06/07/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI007
Date Sampled: 06/06/06 16:23
Percent Solids: 58
Initial Volume: 4.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-17
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	18.3	1	06/07/06
Carbon Disulfide	ND	ug/Kg dry	9.2	1	06/07/06
Carbon Tetrachloride	ND	ug/Kg dry	9.2	1	06/07/06
Chlorobenzene	ND	ug/Kg dry	9.2	1	06/07/06
Chloroethane	ND	ug/Kg dry	18.3	1	06/07/06
Chloroform	ND	ug/Kg dry	9.2	1	06/07/06
Chloromethane	ND	ug/Kg dry	18.3	1	06/07/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	9.2	1	06/07/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	9.2	1	06/07/06
Dibromochloromethane	ND	ug/Kg dry	9.2	1	06/07/06
Dibromomethane	ND	ug/Kg dry	9.2	1	06/07/06
Dichlorodifluoromethane	ND	ug/Kg dry	18.3	1	06/07/06
Diethyl Ether	ND	ug/Kg dry	9.2	1	06/07/06
Di-isopropyl ether	ND	ug/Kg dry	9.2	1	06/07/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	9.2	1	06/07/06
Ethylbenzene	ND	ug/Kg dry	9.2	1	06/07/06
Hexachlorobutadiene	ND	ug/Kg dry	9.2	1	06/07/06
Isopropylbenzene	ND	ug/Kg dry	9.2	1	06/07/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	9.2	1	06/07/06
Methylene Chloride	ND	ug/Kg dry	45.9	1	06/07/06
Naphthalene	ND	ug/Kg dry	9.2	1	06/07/06
n-Butylbenzene	ND	ug/Kg dry	9.2	1	06/07/06
n-Propylbenzene	ND	ug/Kg dry	9.2	1	06/07/06
sec-Butylbenzene	ND	ug/Kg dry	9.2	1	06/07/06
Styrene	ND	ug/Kg dry	9.2	1	06/07/06
tert-Butylbenzene	ND	ug/Kg dry	9.2	1	06/07/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	9.2	1	06/07/06
Tetrachloroethene	ND	ug/Kg dry	9.2	1	06/07/06
Tetrahydrofuran	ND	ug/Kg dry	9.2	1	06/07/06
Toluene	ND	ug/Kg dry	9.2	1	06/07/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	9.2	1	06/07/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	9.2	1	06/07/06
Trichloroethene	ND	ug/Kg dry	9.2	1	06/07/06
Trichlorofluoromethane	ND	ug/Kg dry	9.2	1	06/07/06
Vinyl Chloride	ND	ug/Kg dry	18.3	1	06/07/06
Xylene O	ND	ug/Kg dry	9.2	1	06/07/06

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI007
Date Sampled: 06/06/06 16:23
Percent Solids: 58
Initial Volume: 4.7
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-17
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	18.3	1	06/07/06
Xylenes (Total)	ND	ug/Kg dry	27.5		06/07/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichloroethane-d4	*94 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*74 %*		*70-130*
Surrogate: Dibromofluoromethane	*102 %*		*70-130*
Surrogate: Toluene-d8	*113 %*		*70-130*

Volatile Organics Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BF60722 - 7471A										
Duplicate **Source: 0606078-05**										
Mercury	1.87	0.252	mg/kg dry		1.43			27	35	
Matrix Spike **Source: 0606078-05**										
Mercury	1.75	0.256	mg/kg dry	0.307	1.43	104	75-125			
Matrix Spike Dup **Source: 0606078-05**										
Mercury	2.92	0.223	mg/kg dry	0.268	1.43	556	75-125	137	35	
Reference										
Mercury	1.71	0.333	mg/kg wet	1.77		97	68.36-132.2			
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60729 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethene	ND	5.0	ug/Kg wet							
1,1-Dichloropropene	ND	5.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	5.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg wet							
1,2-Dibromoethane	ND	5.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,2-Dichloroethane	ND	5.0	ug/Kg wet							
1,2-Dichloropropane	ND	5.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,3-Dichloropropane	ND	5.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	250	ug/Kg wet							
1-Chlorohexane	ND	5.0	ug/Kg wet							
2,2-Dichloropropane	ND	5.0	ug/Kg wet							
2-Butanone	ND	50.0	ug/Kg wet							
2-Chlorotoluene	ND	5.0	ug/Kg wet							
2-Hexanone	ND	50.0	ug/Kg wet							
4-Chlorotoluene	ND	5.0	ug/Kg wet							
4-Isopropyltoluene	ND	5.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	50.0	ug/Kg wet							
Acetone	ND	50.0	ug/Kg wet							
Benzene	ND	5.0	ug/Kg wet							
Bromobenzene	ND	5.0	ug/Kg wet							
Bromochloromethane	ND	5.0	ug/Kg wet							
Bromodichloromethane	ND	5.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60729 - 5035										
Bromoform	ND	5.0	ug/Kg wet							
Bromomethane	ND	10.0	ug/Kg wet							
Carbon Disulfide	ND	5.0	ug/Kg wet							
Carbon Tetrachloride	ND	5.0	ug/Kg wet							
Chlorobenzene	ND	5.0	ug/Kg wet							
Chloroethane	ND	10.0	ug/Kg wet							
Chloroform	ND	5.0	ug/Kg wet							
Chloromethane	ND	10.0	ug/Kg wet							
cis-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Dibromochloromethane	ND	5.0	ug/Kg wet							
Dibromomethane	ND	5.0	ug/Kg wet							
Dichlorodifluoromethane	ND	10.0	ug/Kg wet							
Diethyl Ether	ND	5.0	ug/Kg wet							
Di-isopropyl ether	ND	5.0	ug/Kg wet							
Ethyl tertiary-butyl ether	ND	5.0	ug/Kg wet							
Ethylbenzene	ND	5.0	ug/Kg wet							
Hexachlorobutadiene	ND	5.0	ug/Kg wet							
Isopropylbenzene	ND	5.0	ug/Kg wet							
Methyl tert-Butyl Ether	ND	5.0	ug/Kg wet							
Methylene Chloride	ND	25.0	ug/Kg wet							
Naphthalene	ND	5.0	ug/Kg wet							
n-Butylbenzene	ND	5.0	ug/Kg wet							
n-Propylbenzene	ND	5.0	ug/Kg wet							
sec-Butylbenzene	ND	5.0	ug/Kg wet							
Styrene	ND	5.0	ug/Kg wet							
tert-Butylbenzene	ND	5.0	ug/Kg wet							
Tertiary-amyl methyl ether	ND	5.0	ug/Kg wet							
Tetrachloroethene	ND	5.0	ug/Kg wet							
Tetrahydrofuran	ND	5.0	ug/Kg wet							
Toluene	ND	5.0	ug/Kg wet							
trans-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
trans-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Trichloroethene	ND	5.0	ug/Kg wet							
Trichlorofluoromethane	ND	5.0	ug/Kg wet							
Vinyl Chloride	ND	10.0	ug/Kg wet							
Xylene O	ND	5.0	ug/Kg wet							
Xylene P,M	ND	10.0	ug/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*22.8*		ug/L	*25.0*		*91*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.7*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*24.4*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Toluene-d8	*23.6*		ug/L	*25.0*		*94*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	23.2		ug/L	25.0		93	70-130			
1,1,1-Trichloroethane	23.7		ug/L	25.0		95	70-130			
1,1,2,2-Tetrachloroethane	24.1		ug/L	25.0		96	70-130			
1,1,2-Trichloroethane	23.5		ug/L	25.0		94	70-130			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60729 - 5035										
1,1-Dichloroethane	23.8		ug/L	25.0		95	70-130			
1,1-Dichloroethene	25.8		ug/L	25.0		103	70-130			
1,1-Dichloropropene	23.7		ug/L	25.0		95	70-130			
1,2,3-Trichlorobenzene	24.7		ug/L	25.0		99	70-130			
1,2,3-Trichloropropane	24.0		ug/L	25.0		96	70-130			
1,2,4-Trichlorobenzene	23.4		ug/L	25.0		94	70-130			
1,2,4-Trimethylbenzene	24.3		ug/L	25.0		97	70-130			
1,2-Dibromo-3-Chloropropane	24.4		ug/L	25.0		98	70-130			
1,2-Dibromoethane	23.5		ug/L	25.0		94	70-130			
1,2-Dichlorobenzene	23.4		ug/L	25.0		94	70-130			
1,2-Dichloroethane	23.0		ug/L	25.0		92	70-130			
1,2-Dichloropropane	23.2		ug/L	25.0		93	70-130			
1,3,5-Trimethylbenzene	24.2		ug/L	25.0		97	70-130			
1,3-Dichlorobenzene	23.1		ug/L	25.0		92	70-130			
1,3-Dichloropropane	23.9		ug/L	25.0		96	70-130			
1,4-Dichlorobenzene	23.0		ug/L	25.0		92	70-130			
1,4-Dioxane - Screen	475		ug/L	500		95	70-130			
1-Chlorohexane	24.2		ug/L	25.0		97	70-130			
2,2-Dichloropropane	24.2		ug/L	25.0		97	70-130			
2-Butanone	120		ug/L	125		96	70-130			
2-Chlorotoluene	25.0		ug/L	25.0		100	70-130			
2-Hexanone	122		ug/L	125		98	70-130			
4-Chlorotoluene	23.8		ug/L	25.0		95	70-130			
4-Isopropyltoluene	23.8		ug/L	25.0		95	70-130			
4-Methyl-2-Pentanone	113		ug/L	125		90	70-130			
Acetone	120		ug/L	125		96	70-130			
Benzene	24.1		ug/L	25.0		96	70-130			
Bromobenzene	24.6		ug/L	25.0		98	70-130			
Bromochloromethane	24.4		ug/L	25.0		98	70-130			
Bromodichloromethane	25.2		ug/L	25.0		101	70-130			
Bromoform	24.0		ug/L	25.0		96	70-130			
Bromomethane	23.5		ug/L	25.0		94	70-130			
Carbon Disulfide	25.3		ug/L	25.0		101	70-130			
Carbon Tetrachloride	23.4		ug/L	25.0		94	70-130			
Chlorobenzene	24.0		ug/L	25.0		96	70-130			
Chloroethane	16.9		ug/L	25.0		68	70-130			+
Chloroform	24.1		ug/L	25.0		96	70-130			
Chloromethane	25.2		ug/L	25.0		101	70-130			
cis-1,2-Dichloroethene	25.7		ug/L	25.0		103	70-130			
cis-1,3-Dichloropropene	23.1		ug/L	25.0		92	70-130			
Dibromochloromethane	24.2		ug/L	25.0		97	70-130			
Dibromomethane	24.3		ug/L	25.0		97	70-130			
Dichlorodifluoromethane	27.6		ug/L	25.0		110	70-130			
Diethyl Ether	24.9		ug/L	25.0		100	70-130			
Di-isopropyl ether	24.8		ug/L	25.0		99	70-130			
Ethyl tertiary-butyl ether	23.5		ug/L	25.0		94	70-130			
Ethylbenzene	24.6		ug/L	25.0		98	70-130			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60729 - 5035										
Hexachlorobutadiene	24.0		ug/L	25.0		96	70-130			
Isopropylbenzene	22.2		ug/L	25.0		89	70-130			
Methyl tert-Butyl Ether	26.6		ug/L	25.0		106	70-130			
Methylene Chloride	27.0		ug/L	25.0		108	70-130			
Naphthalene	24.3		ug/L	25.0		97	70-130			
n-Butylbenzene	24.4		ug/L	25.0		98	70-130			
n-Propylbenzene	23.7		ug/L	25.0		95	70-130			
sec-Butylbenzene	24.0		ug/L	25.0		96	70-130			
Styrene	24.5		ug/L	25.0		98	70-130			
tert-Butylbenzene	24.0		ug/L	25.0		96	70-130			
Tertiary-amyl methyl ether	24.4		ug/L	25.0		98	70-130			
Tetrachloroethene	23.9		ug/L	25.0		96	70-130			
Tetrahydrofuran	24.4		ug/L	25.0		98	70-130			
Toluene	24.1		ug/L	25.0		96	70-130			
trans-1,2-Dichloroethene	26.3		ug/L	25.0		105	70-130			
trans-1,3-Dichloropropene	21.5		ug/L	25.0		86	70-130			
Trichloroethene	23.6		ug/L	25.0		94	70-130			
Trichlorofluoromethane	23.6		ug/L	25.0		94	70-130			
Vinyl Chloride	25.8		ug/L	25.0		103	70-130			
Xylene O	24.0		ug/L	25.0		96	70-130			
Xylene P,M	48.6		ug/L	50.0		97	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.0*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.5*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*23.7*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: Toluene-d8	*24.6*		ug/L	*25.0*		*98*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	23.2		ug/L	25.0		93	70-130	0	20	
1,1,1-Trichloroethane	23.8		ug/L	25.0		95	70-130	0	20	
1,1,2,2-Tetrachloroethane	24.8		ug/L	25.0		99	70-130	3	20	
1,1,2-Trichloroethane	23.9		ug/L	25.0		96	70-130	2	20	
1,1-Dichloroethane	23.8		ug/L	25.0		95	70-130	0	20	
1,1-Dichloroethene	25.9		ug/L	25.0		104	70-130	1	20	
1,1-Dichloropropene	23.8		ug/L	25.0		95	70-130	0	20	
1,2,3-Trichlorobenzene	25.4		ug/L	25.0		102	70-130	3	20	
1,2,3-Trichloropropane	24.6		ug/L	25.0		98	70-130	2	20	
1,2,4-Trichlorobenzene	23.6		ug/L	25.0		94	70-130	0	20	
1,2,4-Trimethylbenzene	24.5		ug/L	25.0		98	70-130	1	20	
1,2-Dibromo-3-Chloropropane	24.8		ug/L	25.0		99	70-130	1	20	
1,2-Dibromoethane	23.7		ug/L	25.0		95	70-130	1	20	
1,2-Dichlorobenzene	23.5		ug/L	25.0		94	70-130	0	20	
1,2-Dichloroethane	23.2		ug/L	25.0		93	70-130	1	20	
1,2-Dichloropropane	23.4		ug/L	25.0		94	70-130	1	20	
1,3,5-Trimethylbenzene	24.3		ug/L	25.0		97	70-130	0	20	
1,3-Dichlorobenzene	23.4		ug/L	25.0		94	70-130	2	20	
1,3-Dichloropropane	24.2		ug/L	25.0		97	70-130	1	20	
1,4-Dichlorobenzene	23.0		ug/L	25.0		92	70-130	0	20	
1,4-Dioxane - Screen	497		ug/L	500		99	70-130	4	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60729 - 5035										
1-Chlorohexane	24.2		ug/L	25.0		97	70-130	0	20	
2,2-Dichloropropane	24.1		ug/L	25.0		96	70-130	1	20	
2-Butanone	126		ug/L	125		101	70-130	5	20	
2-Chlorotoluene	25.0		ug/L	25.0		100	70-130	0	20	
2-Hexanone	126		ug/L	125		101	70-130	3	20	
4-Chlorotoluene	23.9		ug/L	25.0		96	70-130	1	20	
4-Isopropyltoluene	23.9		ug/L	25.0		96	70-130	1	20	
4-Methyl-2-Pentanone	118		ug/L	125		94	70-130	4	20	
Acetone	123		ug/L	125		98	70-130	2	20	
Benzene	24.1		ug/L	25.0		96	70-130	0	20	
Bromobenzene	25.0		ug/L	25.0		100	70-130	2	20	
Bromochloromethane	24.6		ug/L	25.0		98	70-130	0	20	
Bromodichloromethane	25.3		ug/L	25.0		101	70-130	0	20	
Bromoform	24.5		ug/L	25.0		98	70-130	2	20	
Bromomethane	23.5		ug/L	25.0		94	70-130	0	20	
Carbon Disulfide	25.2		ug/L	25.0		101	70-130	0	20	
Carbon Tetrachloride	23.5		ug/L	25.0		94	70-130	0	20	
Chlorobenzene	23.9		ug/L	25.0		96	70-130	0	20	
Chloroethane	15.9		ug/L	25.0		64	70-130	6	20	+
Chloroform	24.2		ug/L	25.0		97	70-130	1	20	
Chloromethane	25.3		ug/L	25.0		101	70-130	0	20	
cis-1,2-Dichloroethene	25.6		ug/L	25.0		102	70-130	1	20	
cis-1,3-Dichloropropene	23.4		ug/L	25.0		94	70-130	2	20	
Dibromochloromethane	24.6		ug/L	25.0		98	70-130	1	20	
Dibromomethane	24.6		ug/L	25.0		98	70-130	1	20	
Dichlorodifluoromethane	27.7		ug/L	25.0		111	70-130	0.9	20	
Diethyl Ether	24.9		ug/L	25.0		100	70-130	0	20	
Di-isopropyl ether	24.8		ug/L	25.0		99	70-130	0	20	
Ethyl tertiary-butyl ether	23.7		ug/L	25.0		95	70-130	1	20	
Ethylbenzene	24.6		ug/L	25.0		98	70-130	0	20	
Hexachlorobutadiene	24.1		ug/L	25.0		96	70-130	0	20	
Isopropylbenzene	22.3		ug/L	25.0		89	70-130	0	20	
Methyl tert-Butyl Ether	23.6		ug/L	25.0		94	70-130	12	20	
Methylene Chloride	27.1		ug/L	25.0		108	70-130	0	20	
Naphthalene	25.5		ug/L	25.0		102	70-130	5	20	
n-Butylbenzene	24.3		ug/L	25.0		97	70-130	1	20	
n-Propylbenzene	23.9		ug/L	25.0		96	70-130	1	20	
sec-Butylbenzene	24.0		ug/L	25.0		96	70-130	0	20	
Styrene	24.4		ug/L	25.0		98	70-130	0	20	
tert-Butylbenzene	24.1		ug/L	25.0		96	70-130	0	20	
Tertiary-amyl methyl ether	24.6		ug/L	25.0		98	70-130	0	20	
Tetrachloroethene	23.8		ug/L	25.0		95	70-130	1	20	
Tetrahydrofuran	25.2		ug/L	25.0		101	70-130	3	20	
Toluene	24.1		ug/L	25.0		96	70-130	0	20	
trans-1,2-Dichloroethene	24.2		ug/L	25.0		97	70-130	8	20	
trans-1,3-Dichloropropene	21.7		ug/L	25.0		87	70-130	1	20	
Trichloroethene	23.6		ug/L	25.0		94	70-130	0	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60729 - 5035										
Trichlorofluoromethane	23.6		ug/L	25.0		94	70-130	0	20	
Vinyl Chloride	25.6		ug/L	25.0		102	70-130	1	20	
Xylene O	23.9		ug/L	25.0		96	70-130	0	20	
Xylene P,M	48.6		ug/L	50.0		97	70-130	0	20	
Surrogate: 1,2-Dichloroethane-d4	*23.9*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.4*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*23.7*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: Toluene-d8	*24.4*		ug/L	*25.0*		*98*	*70-130*			
Batch BF60811 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethene	ND	5.0	ug/Kg wet							
1,1-Dichloropropene	ND	5.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	5.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg wet							
1,2-Dibromoethane	ND	5.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,2-Dichloroethane	ND	5.0	ug/Kg wet							
1,2-Dichloropropane	ND	5.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,3-Dichloropropane	ND	5.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	250	ug/Kg wet							
1-Chlorohexane	ND	5.0	ug/Kg wet							
2,2-Dichloropropane	ND	5.0	ug/Kg wet							
2-Butanone	ND	50.0	ug/Kg wet							
2-Chlorotoluene	ND	5.0	ug/Kg wet							
2-Hexanone	ND	50.0	ug/Kg wet							
4-Chlorotoluene	ND	5.0	ug/Kg wet							
4-Isopropyltoluene	ND	5.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	50.0	ug/Kg wet							
Acetone	ND	50.0	ug/Kg wet							
Benzene	ND	5.0	ug/Kg wet							
Bromobenzene	ND	5.0	ug/Kg wet							
Bromochloromethane	ND	5.0	ug/Kg wet							
Bromodichloromethane	ND	5.0	ug/Kg wet							
Bromoform	ND	5.0	ug/Kg wet							
Bromomethane	ND	10.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60811 - 5035										
Carbon Disulfide	ND	5.0	ug/Kg wet							
Carbon Tetrachloride	ND	5.0	ug/Kg wet							
Chlorobenzene	ND	5.0	ug/Kg wet							
Chloroethane	ND	10.0	ug/Kg wet							
Chloroform	ND	5.0	ug/Kg wet							
Chloromethane	ND	10.0	ug/Kg wet							
cis-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Dibromochloromethane	ND	5.0	ug/Kg wet							
Dibromomethane	ND	5.0	ug/Kg wet							
Dichlorodifluoromethane	ND	10.0	ug/Kg wet							
Diethyl Ether	ND	5.0	ug/Kg wet							
Di-isopropyl ether	ND	5.0	ug/Kg wet							
Ethyl tertiary-butyl ether	ND	5.0	ug/Kg wet							
Ethylbenzene	ND	5.0	ug/Kg wet							
Hexachlorobutadiene	ND	5.0	ug/Kg wet							
Isopropylbenzene	ND	5.0	ug/Kg wet							
Methyl tert-Butyl Ether	ND	5.0	ug/Kg wet							
Methylene Chloride	ND	25.0	ug/Kg wet							
Naphthalene	ND	5.0	ug/Kg wet							
n-Butylbenzene	ND	5.0	ug/Kg wet							
n-Propylbenzene	ND	5.0	ug/Kg wet							
sec-Butylbenzene	ND	5.0	ug/Kg wet							
Styrene	ND	5.0	ug/Kg wet							
tert-Butylbenzene	ND	5.0	ug/Kg wet							
Tertiary-amyl methyl ether	ND	5.0	ug/Kg wet							
Tetrachloroethene	ND	5.0	ug/Kg wet							
Tetrahydrofuran	ND	5.0	ug/Kg wet							
Toluene	ND	5.0	ug/Kg wet							
trans-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
trans-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Trichloroethene	ND	5.0	ug/Kg wet							
Trichlorofluoromethane	ND	5.0	ug/Kg wet							
Vinyl Chloride	ND	10.0	ug/Kg wet							
Xylene O	ND	5.0	ug/Kg wet							
Xylene P,M	ND	10.0	ug/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*22.8*		ug/L	*25.0*		*91*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.0*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Dibromofluoromethane	*24.4*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Toluene-d8	*23.4*		ug/L	*25.0*		*94*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	23.4		ug/L	25.0		94	70-130			
1,1,1-Trichloroethane	23.8		ug/L	25.0		95	70-130			
1,1,2,2-Tetrachloroethane	24.1		ug/L	25.0		96	70-130			
1,1,2-Trichloroethane	23.5		ug/L	25.0		94	70-130			
1,1-Dichloroethane	24.0		ug/L	25.0		96	70-130			
1,1-Dichloroethene	25.9		ug/L	25.0		104	70-130			

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60811 - 5035										
1,1-Dichloropropene	23.5		ug/L	25.0		94	70-130			
1,2,3-Trichlorobenzene	25.6		ug/L	25.0		102	70-130			
1,2,3-Trichloropropane	24.1		ug/L	25.0		96	70-130			
1,2,4-Trichlorobenzene	24.0		ug/L	25.0		96	70-130			
1,2,4-Trimethylbenzene	24.6		ug/L	25.0		98	70-130			
1,2-Dibromo-3-Chloropropane	23.8		ug/L	25.0		95	70-130			
1,2-Dibromoethane	23.6		ug/L	25.0		94	70-130			
1,2-Dichlorobenzene	23.5		ug/L	25.0		94	70-130			
1,2-Dichloroethane	23.4		ug/L	25.0		94	70-130			
1,2-Dichloropropane	23.6		ug/L	25.0		94	70-130			
1,3,5-Trimethylbenzene	24.3		ug/L	25.0		97	70-130			
1,3-Dichlorobenzene	23.4		ug/L	25.0		94	70-130			
1,3-Dichloropropane	24.2		ug/L	25.0		97	70-130			
1,4-Dichlorobenzene	23.1		ug/L	25.0		92	70-130			
1,4-Dioxane - Screen	482		ug/L	500		96	70-130			
1-Chlorohexane	24.3		ug/L	25.0		97	70-130			
2,2-Dichloropropane	24.4		ug/L	25.0		98	70-130			
2-Butanone	117		ug/L	125		94	70-130			
2-Chlorotoluene	24.8		ug/L	25.0		99	70-130			
2-Hexanone	121		ug/L	125		97	70-130			
4-Chlorotoluene	24.0		ug/L	25.0		96	70-130			
4-Isopropyltoluene	24.0		ug/L	25.0		96	70-130			
4-Methyl-2-Pentanone	112		ug/L	125		90	70-130			
Acetone	104		ug/L	125		83	70-130			
Benzene	24.4		ug/L	25.0		98	70-130			
Bromobenzene	24.8		ug/L	25.0		99	70-130			
Bromochloromethane	24.4		ug/L	25.0		98	70-130			
Bromodichloromethane	25.2		ug/L	25.0		101	70-130			
Bromoform	24.1		ug/L	25.0		96	70-130			
Bromomethane	23.9		ug/L	25.0		96	70-130			
Carbon Disulfide	25.5		ug/L	25.0		102	70-130			
Carbon Tetrachloride	23.6		ug/L	25.0		94	70-130			
Chlorobenzene	23.9		ug/L	25.0		96	70-130			
Chloroethane	17.6		ug/L	25.0		70	70-130			
Chloroform	24.1		ug/L	25.0		96	70-130			
Chloromethane	25.5		ug/L	25.0		102	70-130			
cis-1,2-Dichloroethene	25.7		ug/L	25.0		103	70-130			
cis-1,3-Dichloropropene	23.4		ug/L	25.0		94	70-130			
Dibromochloromethane	24.4		ug/L	25.0		98	70-130			
Dibromomethane	24.3		ug/L	25.0		97	70-130			
Dichlorodifluoromethane	27.0		ug/L	25.0		108	70-130			
Diethyl Ether	24.8		ug/L	25.0		99	70-130			
Di-isopropyl ether	25.0		ug/L	25.0		100	70-130			
Ethyl tertiary-butyl ether	23.8		ug/L	25.0		95	70-130			
Ethylbenzene	24.8		ug/L	25.0		99	70-130			
Hexachlorobutadiene	24.3		ug/L	25.0		97	70-130			
Isopropylbenzene	22.3		ug/L	25.0		89	70-130			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60811 - 5035										
Methyl tert-Butyl Ether	23.3		ug/L	25.0		93	70-130			
Methylene Chloride	24.8		ug/L	25.0		99	70-130			
Naphthalene	25.3		ug/L	25.0		101	70-130			
n-Butylbenzene	24.7		ug/L	25.0		99	70-130			
n-Propylbenzene	24.3		ug/L	25.0		97	70-130			
sec-Butylbenzene	24.2		ug/L	25.0		97	70-130			
Styrene	24.7		ug/L	25.0		99	70-130			
tert-Butylbenzene	24.2		ug/L	25.0		97	70-130			
Tertiary-amyl methyl ether	24.6		ug/L	25.0		98	70-130			
Tetrachloroethene	24.1		ug/L	25.0		96	70-130			
Tetrahydrofuran	23.9		ug/L	25.0		96	70-130			
Toluene	24.2		ug/L	25.0		97	70-130			
trans-1,2-Dichloroethene	24.0		ug/L	25.0		96	70-130			
trans-1,3-Dichloropropene	21.8		ug/L	25.0		87	70-130			
Trichloroethene	23.6		ug/L	25.0		94	70-130			
Trichlorofluoromethane	23.5		ug/L	25.0		94	70-130			
Vinyl Chloride	25.4		ug/L	25.0		102	70-130			
Xylene O	24.2		ug/L	25.0		97	70-130			
Xylene P,M	48.7		ug/L	50.0		97	70-130			
Surrogate: 1,2-Dichloroethane-d4	*23.8*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.4*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*23.8*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: Toluene-d8	*24.6*		ug/L	*25.0*		*98*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	24.1		ug/L	25.0		96	70-130	2	20	
1,1,1-Trichloroethane	24.5		ug/L	25.0		98	70-130	3	20	
1,1,2,2-Tetrachloroethane	25.5		ug/L	25.0		102	70-130	6	20	
1,1,2-Trichloroethane	24.4		ug/L	25.0		98	70-130	4	20	
1,1-Dichloroethane	24.6		ug/L	25.0		98	70-130	2	20	
1,1-Dichloroethene	26.6		ug/L	25.0		106	70-130	2	20	
1,1-Dichloropropene	24.3		ug/L	25.0		97	70-130	3	20	
1,2,3-Trichlorobenzene	26.2		ug/L	25.0		105	70-130	3	20	
1,2,3-Trichloropropane	25.5		ug/L	25.0		102	70-130	6	20	
1,2,4-Trichlorobenzene	24.5		ug/L	25.0		98	70-130	2	20	
1,2,4-Trimethylbenzene	25.1		ug/L	25.0		100	70-130	2	20	
1,2-Dibromo-3-Chloropropane	25.8		ug/L	25.0		103	70-130	8	20	
1,2-Dibromoethane	24.7		ug/L	25.0		99	70-130	5	20	
1,2-Dichlorobenzene	24.4		ug/L	25.0		98	70-130	4	20	
1,2-Dichloroethane	23.8		ug/L	25.0		95	70-130	1	20	
1,2-Dichloropropane	24.1		ug/L	25.0		96	70-130	2	20	
1,3,5-Trimethylbenzene	25.0		ug/L	25.0		100	70-130	3	20	
1,3-Dichlorobenzene	23.9		ug/L	25.0		96	70-130	2	20	
1,3-Dichloropropane	25.1		ug/L	25.0		100	70-130	3	20	
1,4-Dichlorobenzene	23.6		ug/L	25.0		94	70-130	2	20	
1,4-Dioxane - Screen	524		ug/L	500		105	70-130	9	20	
1-Chlorohexane	25.1		ug/L	25.0		100	70-130	3	20	
2,2-Dichloropropane	25.0		ug/L	25.0		100	70-130	2	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60811 - 5035										
2-Butanone	127		ug/L	125		102	70-130	8	20	
2-Chlorotoluene	24.9		ug/L	25.0		100	70-130	1	20	
2-Hexanone	132		ug/L	125		106	70-130	9	20	
4-Chlorotoluene	24.5		ug/L	25.0		98	70-130	2	20	
4-Isopropyltoluene	24.6		ug/L	25.0		98	70-130	2	20	
4-Methyl-2-Pentanone	122		ug/L	125		98	70-130	9	20	
Acetone	113		ug/L	125		90	70-130	8	20	
Benzene	25.0		ug/L	25.0		100	70-130	2	20	
Bromobenzene	25.4		ug/L	25.0		102	70-130	3	20	
Bromochloromethane	25.2		ug/L	25.0		101	70-130	3	20	
Bromodichloromethane	25.9		ug/L	25.0		104	70-130	3	20	
Bromoform	25.3		ug/L	25.0		101	70-130	5	20	
Bromomethane	24.4		ug/L	25.0		98	70-130	2	20	
Carbon Disulfide	26.2		ug/L	25.0		105	70-130	3	20	
Carbon Tetrachloride	24.3		ug/L	25.0		97	70-130	3	20	
Chlorobenzene	24.5		ug/L	25.0		98	70-130	2	20	
Chloroethane	16.4		ug/L	25.0		66	70-130	6	20	+
Chloroform	24.8		ug/L	25.0		99	70-130	3	20	
Chloromethane	26.5		ug/L	25.0		106	70-130	4	20	
cis-1,2-Dichloroethene	26.4		ug/L	25.0		106	70-130	3	20	
cis-1,3-Dichloropropene	24.1		ug/L	25.0		96	70-130	2	20	
Dibromochloromethane	25.2		ug/L	25.0		101	70-130	3	20	
Dibromomethane	25.2		ug/L	25.0		101	70-130	4	20	
Dichlorodifluoromethane	27.7		ug/L	25.0		111	70-130	3	20	
Diethyl Ether	25.6		ug/L	25.0		102	70-130	3	20	
Di-isopropyl ether	25.7		ug/L	25.0		103	70-130	3	20	
Ethyl tertiary-butyl ether	24.6		ug/L	25.0		98	70-130	3	20	
Ethylbenzene	25.5		ug/L	25.0		102	70-130	3	20	
Hexachlorobutadiene	24.7		ug/L	25.0		99	70-130	2	20	
Isopropylbenzene	22.8		ug/L	25.0		91	70-130	2	20	
Methyl tert-Butyl Ether	24.2		ug/L	25.0		97	70-130	4	20	
Methylene Chloride	25.5		ug/L	25.0		102	70-130	3	20	
Naphthalene	26.9		ug/L	25.0		108	70-130	7	20	
n-Butylbenzene	25.4		ug/L	25.0		102	70-130	3	20	
n-Propylbenzene	25.0		ug/L	25.0		100	70-130	3	20	
sec-Butylbenzene	24.6		ug/L	25.0		98	70-130	1	20	
Styrene	25.4		ug/L	25.0		102	70-130	3	20	
tert-Butylbenzene	24.8		ug/L	25.0		99	70-130	2	20	
Tertiary-amyl methyl ether	25.2		ug/L	25.0		101	70-130	3	20	
Tetrachloroethene	24.8		ug/L	25.0		99	70-130	3	20	
Tetrahydrofuran	25.9		ug/L	25.0		104	70-130	8	20	
Toluene	24.8		ug/L	25.0		99	70-130	2	20	
trans-1,2-Dichloroethene	24.8		ug/L	25.0		99	70-130	3	20	
trans-1,3-Dichloropropene	22.4		ug/L	25.0		90	70-130	3	20	
Trichloroethene	24.3		ug/L	25.0		97	70-130	3	20	
Trichlorofluoromethane	24.3		ug/L	25.0		97	70-130	3	20	
Vinyl Chloride	26.2		ug/L	25.0		105	70-130	3	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60811 - 5035										
Xylene O	24.9		ug/L	25.0		100	70-130	3	20	
Xylene P,M	49.9		ug/L	50.0		100	70-130	3	20	
Surrogate: 1,2-Dichloroethane-d4	*24.2*		ug/L	*25.0*		*97*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.5*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*23.9*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Toluene-d8	*24.7*		ug/L	*25.0*		*99*	*70-130*			
8081A Organochlorine Pesticides										
Batch BF60801 - 3541										
Blank										
4,4´-DDD	ND	5.00	ug/Kg wet							
4,4´-DDE	ND	5.00	ug/Kg wet							
4,4´-DDT	ND	5.00	ug/Kg wet							
Aldrin	ND	5.00	ug/Kg wet							
alpha-BHC	ND	5.00	ug/Kg wet							
alpha-Chlordane	ND	5.00	ug/Kg wet							
beta-BHC	ND	5.00	ug/Kg wet							
Chlordane (Total)	ND	50.0	ug/Kg wet							
delta-BHC	ND	5.00	ug/Kg wet							
Dieldrin	ND	5.00	ug/Kg wet							
Endosulfan I	ND	5.00	ug/Kg wet							
Endosulfan II	ND	5.00	ug/Kg wet							
Endosulfan Sulfate	ND	5.00	ug/Kg wet							
Endrin	ND	5.00	ug/Kg wet							
Endrin Aldehyde	ND	5.00	ug/Kg wet							
Endrin Ketone	ND	5.00	ug/Kg wet							
gamma-BHC (Lindane)	ND	5.00	ug/Kg wet							
gamma-Chlordane	ND	5.00	ug/Kg wet							
Heptachlor	ND	5.00	ug/Kg wet							
Heptachlor Epoxide	ND	5.00	ug/Kg wet							
Hexachlorobenzene	ND	5.00	ug/Kg wet							
Methoxychlor	ND	5.00	ug/Kg wet							
Toxaphene	ND	250	ug/Kg wet							
Surrogate: Decachlorobiphenyl	*18.0*		ug/Kg wet	*25.0*		*72*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*16.7*		ug/Kg wet	*25.0*		*67*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*17.2*		ug/Kg wet	*25.0*		*69*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*16.9*		ug/Kg wet	*25.0*		*68*	*30-150*			
LCS										
4,4´-DDD	20.0	5.00	ug/Kg wet	25.0		80	40-140			
4,4´-DDE	20.3	5.00	ug/Kg wet	25.0		81	40-140			
4,4´-DDT	19.0	5.00	ug/Kg wet	25.0		76	40-140			
Aldrin	22.5	5.00	ug/Kg wet	25.0		90	40-140			
alpha-BHC	17.3	5.00	ug/Kg wet	25.0		69	40-140			
alpha-Chlordane	20.0	5.00	ug/Kg wet	25.0		80	40-140			
beta-BHC	19.8	5.00	ug/Kg wet	25.0		79	40-140			
delta-BHC	15.5	5.00	ug/Kg wet	25.0		62	40-140			

380

Volatile Organics Calibration Data

ANALYSIS SEQUENCE

BPF0045

Instrument: VMS4

Calibnration ID: 0605037 ~~L0060606.M~~ L0060606.M

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0045-TUN1	QC		1		6F06045		
BPF0045-CAL1	QC		2		6F06046	6E24035	
BPF0045-CAL2	QC		3		6F06047	6E24035	
BPF0045-CAL3	QC		4		6F06048	6E24035	
BPF0045-CAL4	QC		5		6F06049	6E24035	
BPF0045-CAL5	QC		6		6F06050	6E24035	
BPF0045-CAL6	QC		7		6F06051	6E24035	
BPF0045-SCV1	QC		8		6F06053	6E24035	

Samples Loaded By Date Data Processed By Date

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/6/06	7	M4 14922	060619-06	A8050906		
	8	M4 23	-07			
	9	M4 24	-08			
	10	M4 26	-03		10X	
	11	M4 26	-04		10X	
	12	M4 27	-02		50X	
	13	M4 28	-09		50X	
6/6/06	14	M4 29	-05	A8050906	100X	
6/16/06	1	M4 30	BlF0045 - TUN1	L0052606	6F06045	
	2	M4 31	BlF0045 - CAL1		6F06046	
	3	M4 32	BlF0045 - CAL2		6F06047	
	4	M4 33	BlF0045 - CAL3		6F06048	
	5	M4 34	BlF0045 - CAL4		6F06049	
	6	M4 35	BlF0045 - CAL5		6F06050	
	7	M4 36	BlF0045 - CAL6		6F06051	
	8	M4 37	Test Blk	L0052606		
6/6/06	9	M4 38	BlF0045 - SCV1	L0060606	6F06053	

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

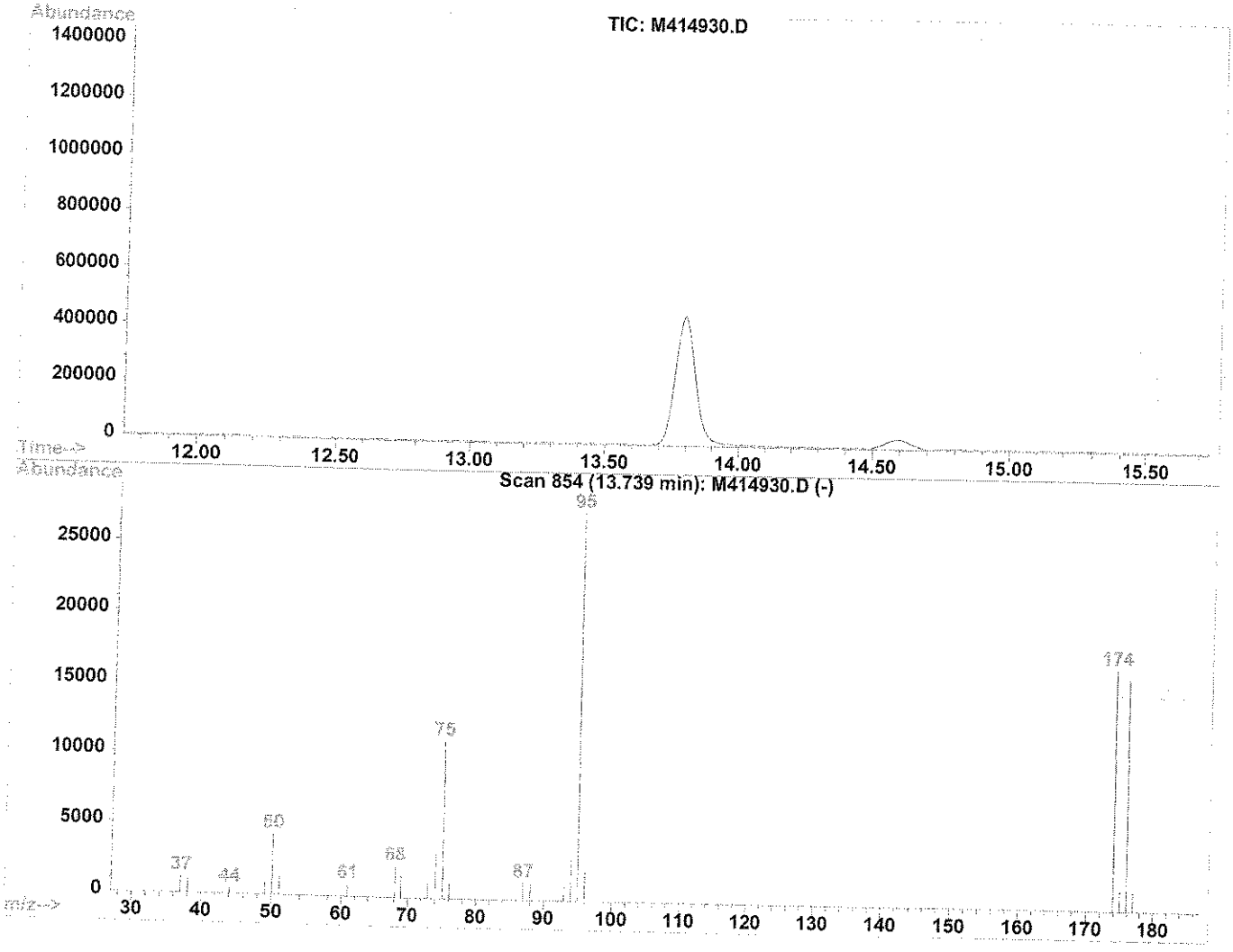
Surrogate: 6E24033

On-column IS: 6E24035

BFB

Data File : Q:/VOA/MS4_MH/MH0606/MH060606\M414930.D
Acq On : 6 Jun 2006 8:26 am
Sample : BPF0045-TUN1
Misc :
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\LO052606.M (RTE Integrator)
Title : Element ID: 0605024

Vial: 1
Operator: MD
Inst : VOA_MS4
Multiplr: 1.00



Spectrum Information: Scan 854

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.5	4266	PASS
75	95	30	60	40.5	11154	PASS
95	95	100	100	100.0	27546	PASS
96	95	5	9	7.7	2125	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	62.0	17069	PASS
175	174	5	9	8.2	1407	PASS
176	174	95	101	96.1	16395	PASS
177	176	5	9	8.2	1348	PASS

M414930.D LO052606.M Tue Jun 06 11:17:50 2006 MS4

Response Factor Report VOA_MS4

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration

Calibration Files
25 =M414931.D 10 =M414932.D 5 =M414933.D
2.5 =M414934.D 50 =M414935.D 100 =M414936.D

		Compound	25	10	5	2.5	50	100	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------							
2)		Dichlorodifluoromet	0.310	0.311	0.354	0.399	0.307	0.317	0.333	11.03
3)		Chloromethane	0.142	0.143	0.167	0.185	0.147	0.167	0.158	10.84
4)		Vinyl Chloride	0.162	0.162	0.185	0.201	0.164	0.166	0.174	9.37
5)		Bromomethane	0.147	0.153	0.181	0.191	0.143	0.143	0.160	13.12
6)		Chloroethane	0.085	0.087	0.104	0.109	0.066	0.051	0.084	26.41
7)		Trichlorofluorometh	0.540	0.544	0.628	0.678	0.544	0.567	0.584	9.74
8)		Diethyl ether	0.098	0.098	0.113	0.120	0.101	0.102	0.105	8.63
9)		Acrolein	0.019	0.020	0.025		0.020	0.019	0.021	11.91
10)		1,1,2-Trichloro-1,2	0.539	0.541	0.622	0.667	0.531	0.549	0.575	9.74
11)		Acetone	0.008	0.008	0.011	0.012	0.009	0.009	0.009	13.32
12)		Iodomethane	0.539	0.504	0.598	0.626	0.619	0.548	0.572	8.64
13)		Carbon Disulfide	0.575	0.582	0.676	0.734	0.572	0.596	0.622	10.74
14)		1,1-Dichloroethene	0.230	0.235	0.269	0.291	0.227	0.230	0.247	10.87
15)		Allyl Chloride	0.233	0.236	0.273	0.295	0.231	0.216	0.248	12.19
16)		Methyl Acetate	0.088	0.091	0.125		0.096	0.093	0.099	15.44
17)		Methylene Chloride	0.219	0.241	0.305	0.349	0.217	0.220	0.259	21.44
18)		Tertiary-butyl Alco	0.015	0.016	0.020	0.029	0.017	0.017	0.019	26.87
19)		Methyl tert-Butyl E	0.394	0.416	0.459	0.462	0.396	0.420	0.425	6.98
20)		Acrylonitrile	0.033	0.036	0.039	0.040	0.035	0.035	0.036	8.21
21)		trans-1,2-Dichloroe	0.264	0.284	0.300	0.322	0.265	0.276	0.285	7.91
22)		1,1-Dichloroethane	0.424	0.426	0.490	0.526	0.429	0.444	0.456	9.24
23)		Chloroprene	0.260	0.259	0.294	0.314	0.263	0.273	0.277	8.03
24)		Vinyl Acetate	0.638	0.643	0.758	0.798	0.657	0.660	0.692	9.85
25)		Di-isopropyl ether	0.631	0.634	0.733	0.790	0.639	0.654	0.680	9.67
26)		Ethyl tertiary-buty	0.580	0.578	0.665	0.714	0.596	0.613	0.624	8.69
27)		2-Butanone	0.016	0.016	0.020	0.021	0.018	0.017	0.018	10.65
28)		cis-1,2 Dichloroeth	0.302	0.302	0.342	0.367	0.305	0.314	0.322	8.31
29)		2,2-Dichloropropane	0.366	0.364	0.416	0.463	0.358	0.375	0.390	10.59
30)		Methyl Acrylate	0.167	0.168	0.207	0.209	0.182	0.178	0.185	10.03
31)		Methacrylonitrile	0.092	0.101	0.123	0.130	0.101	0.099	0.108	14.21
32)		Bromochloromethane	0.226	0.227	0.262	0.282	0.228	0.224	0.241	10.10
33)		Tetrahydrofuran	0.045	0.047	0.058		0.047	0.045	0.048	11.66
34)		Chloroform	0.534	0.530	0.610	0.660	0.542	0.566	0.574	8.99
35)		1,1,1-Trichloroetha	0.518	0.516	0.600	0.651	0.528	0.550	0.560	9.67
36)	S	Dibromofluoromethan	0.691	0.703	0.824	0.919	0.698	0.715	0.758	12.28
37)		Cyclohexane	0.298	0.294	0.344	0.366	0.288	0.286	0.313	10.86
38)		1-Chlorobutane	0.372	0.388	0.442	0.478	0.387	0.404	0.412	9.77
39)		1,1-Dichloropropene	0.362	0.367	0.421	0.458	0.371	0.373	0.392	9.88
40)		Carbon Tetrachlorid	0.563	0.563	0.659	0.720	0.577	0.603	0.614	10.27
41)		Benzene	0.655	0.651	0.762	0.820	0.665	0.686	0.707	9.76
42)	S	1,2-Dichloroethane-	0.224	0.226	0.267	0.293	0.229	0.236	0.246	11.34
43)		1,2-Dichloroethane	0.240	0.237	0.269	0.291	0.250	0.256	0.257	7.82
44)		Tertiary-amyl methy	0.530	0.525	0.609	0.649	0.555	0.559	0.571	8.50

(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration

Calibration Files
25 =M414931.D 10 =M414932.D 5 =M414933.D
2.5 =M414934.D 50 =M414935.D 100 =M414936.D

		Compound	25	10	5	2.5	50	100	Avg	%RSD
45)		Trichloroethene	0.384	0.382	0.444	0.481	0.390	0.403	0.414	9.65
46)		Methyl Cyclohexane	0.374	0.371	0.429	0.454	0.380	0.391	0.400	8.43
47)		1,2-Dichloropropane	0.266	0.263	0.304	0.332	0.270	0.276	0.285	9.58
48)		Dibromomethane	0.314	0.310	0.362	0.387	0.323	0.326	0.337	9.11
49)		1,4-Dioxane	0.002	0.002	0.003	0.004	0.003	0.003	0.003	21.57
50)		Methyl Methacrylate	0.167	0.165	0.198	0.209	0.175	0.173	0.181	9.87
51)		Bromodichloromethan	0.553	0.537	0.615	0.683	0.556	0.575	0.587	9.26
52)		2-Nitropropane	0.042	0.043	0.053	0.056	0.047	0.045	0.048	11.96
53)		2-Chloroethyl vinyl	0.096	0.103	0.126	0.133	0.093	0.080	0.105	19.23
54)		4-Methyl-2-Pentanon	0.076	0.077	0.095	0.105	0.084	0.080	0.086	13.45
55)		cis-1,3-Dichloropro	0.412	0.401	0.458	0.502	0.415	0.426	0.436	8.69
56)		Toluene	0.511	0.500	0.579	0.634	0.512	0.533	0.545	9.54
57)		trans-1,3-Dichlorop	0.342	0.332	0.383	0.410	0.352	0.359	0.363	8.01
58)		1,1,2-Trichloroetha	0.228	0.225	0.269	0.286	0.235	0.235	0.246	10.21
59)	I	Chlorobenzene-d5	----------ISTD----------							
60)	S	Toluene-d8 (SURR)	1.009	1.001	1.152	1.264	1.011	1.062	1.083	9.72
61)		2-Hexanone	0.147	0.155	0.191	0.225	0.165	0.162	0.174	16.70
62)		Ethyl Methacrylate	0.348	0.351	0.415	0.437	0.366	0.366	0.380	9.64
63)		1,3-Dichloropropane	0.428	0.428	0.495	0.524	0.443	0.455	0.462	8.47
64)		Tetrachloroethene	0.457	0.454	0.522	0.572	0.460	0.477	0.490	9.70
65)		Dibromochloromethan	0.744	0.728	0.843	0.909	0.763	0.794	0.797	8.59
66)		1,2-Dibromoethane	0.562	0.561	0.649	0.691	0.584	0.595	0.607	8.59
67)		1-Chlorohexane	0.479	0.482	0.557	0.594	0.482	0.499	0.516	9.39
68)		Chlorobenzene	0.871	0.862	0.991	1.077	0.872	0.911	0.931	9.25
69)		1,1,1,2-Tetrachloro	0.498	0.503	0.591	0.647	0.500	0.522	0.543	11.40
70)		Ethylbenzene	1.216	1.191	1.367	1.504	1.210	1.264	1.292	9.42
71)		Xylene P,M	0.499	0.494	0.571	0.621	0.500	0.519	0.534	9.61
72)		Xylene O	0.471	0.476	0.543	0.596	0.473	0.488	0.508	10.00
73)		Styrene	0.819	0.804	0.918	0.999	0.819	0.850	0.868	8.76
74)		Bromoform	0.541	0.526	0.617	0.661	0.570	0.583	0.583	8.53
75)		cis-1,4-Dichloro-2-	0.111	0.127	0.112	0.119	0.113	0.110	0.115	5.84
76)	S	Bromofluorobenzene	0.684	0.680	0.783	0.873	0.679	0.702	0.733	10.80
77)	I	1,4 Dichlorobenzene-D	----------ISTD----------							
78)		Isopropylbenzene	2.395	2.382	2.735	3.010	2.412	2.587	2.587	9.64
79)		Trans-1,4-Dichloro-	0.145	0.138	0.159	0.171	0.156	0.163	0.155	7.79
80)		1,2,3-Trichloroprop	0.653	0.653	0.852	0.861	0.705	0.768	0.748	12.53
81)		Bromobenzene	0.842	0.836	0.961	1.058	0.856	0.907	0.910	9.54
82)		1,1,2,2-Tetrachloro	0.864	0.870	1.053	1.256	0.916	0.933	0.982	15.32
83)		n-Propylbenzene	3.166	3.070	3.512	3.848	3.101	3.185	3.314	9.24
84)		2-Chlorotoluene	1.422	1.484	1.746	1.895	1.493	1.709	1.625	11.45
85)		4-Chlorotoluene	2.010	2.012	2.291	2.677	1.998	2.131	2.186	12.13
86)		1,3,5-Trimethylbenz	1.963	1.949	2.275	2.505	1.973	2.102	2.128	10.45
87)		Pentachloroethane	2.772	2.760	3.190	3.550	2.776	2.916	2.994	10.62

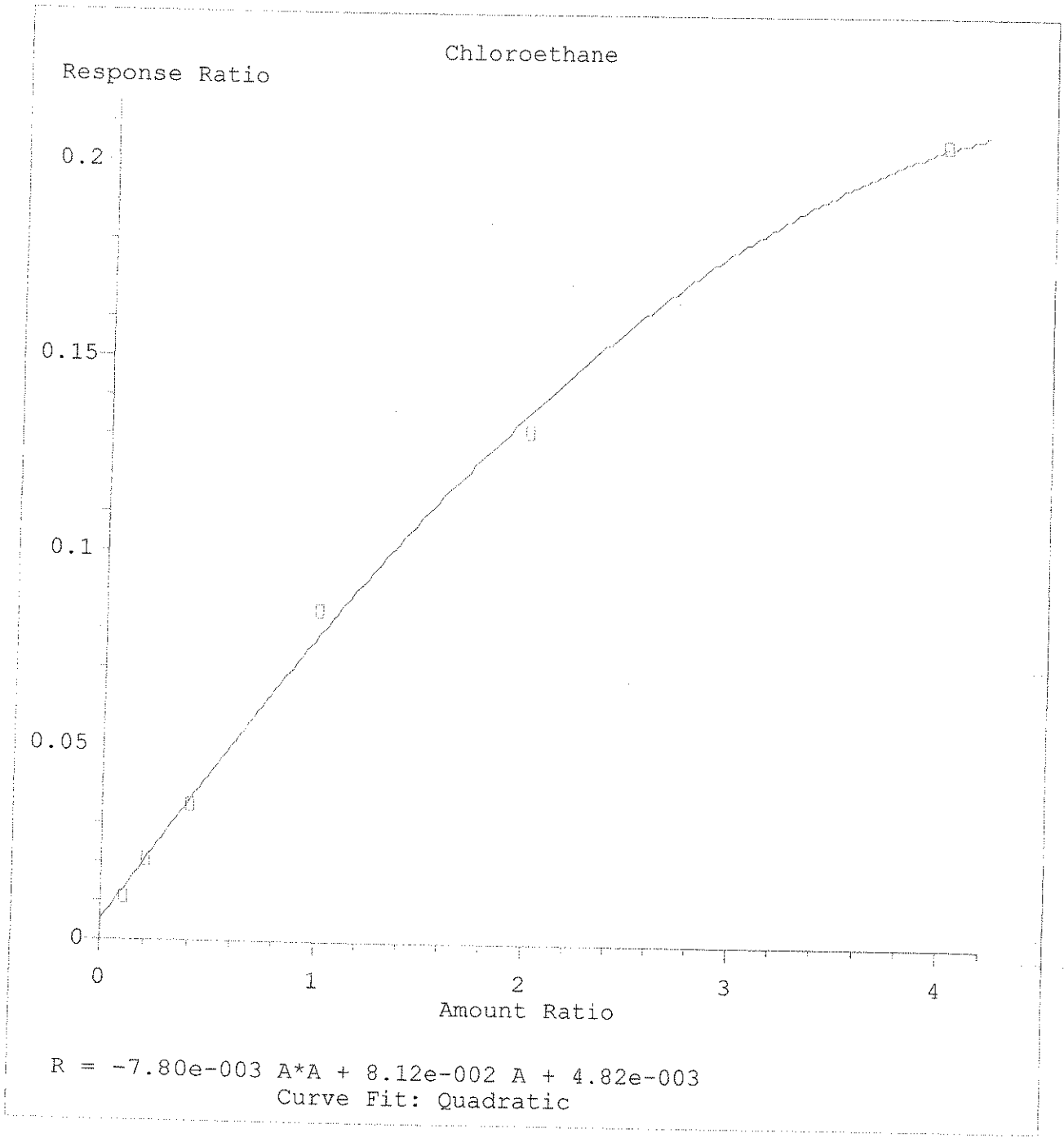
(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration

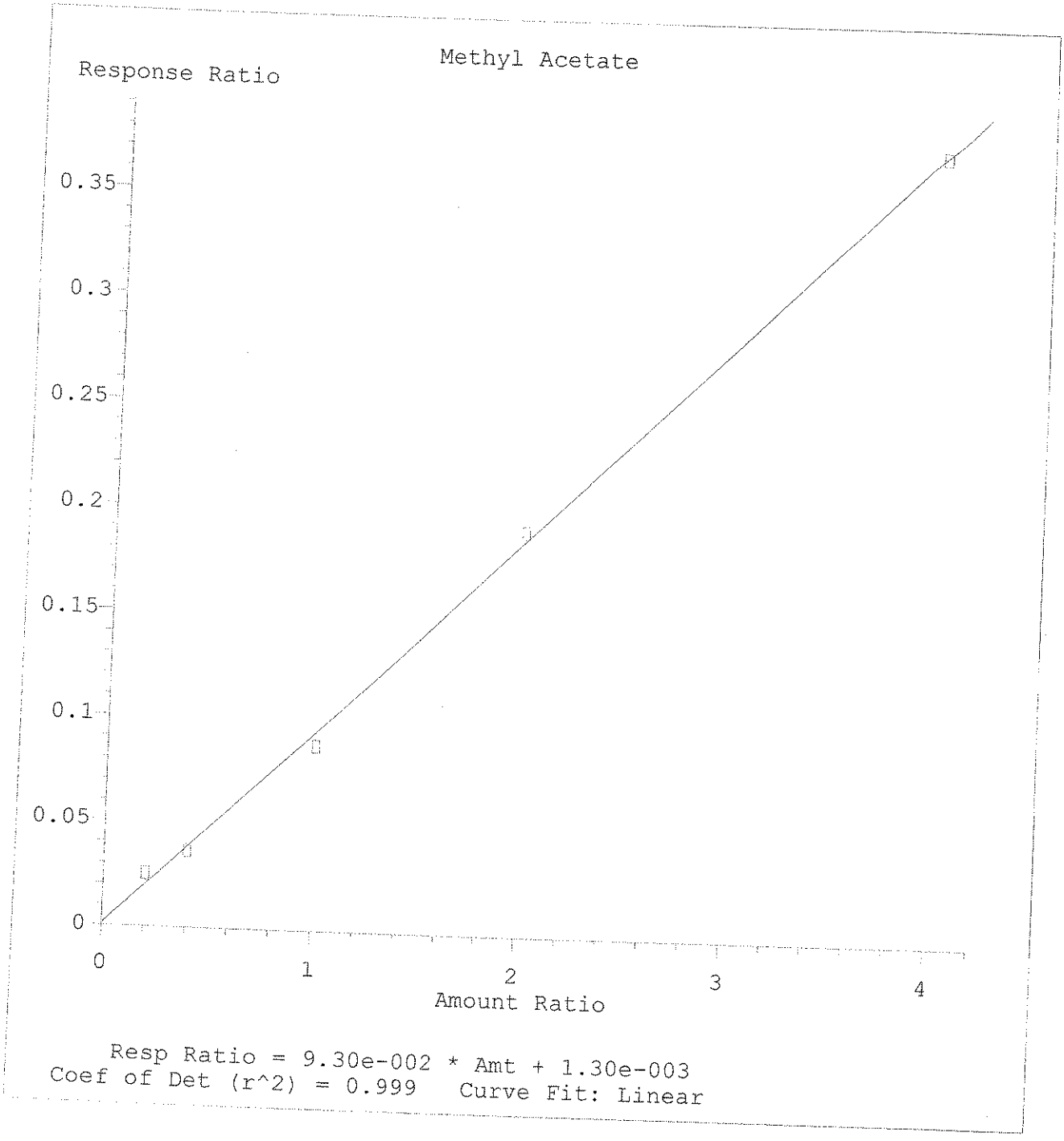
Calibration Files
25 =M414931.D 10 =M414932.D 5 =M414933.D
2.5 =M414934.D 50 =M414935.D 100 =M414936.D

	Compound	25	10	5	2.5	50	100	Avg	%RSD
88)	tert-Butylbenzene	2.772	2.760	3.190	3.550	2.776	2.916	2.994	10.62
89)	1,2,4-Trimethylbenz	1.981	1.992	2.288	2.524	1.993	2.132	2.152	10.12
90)	sec-Butylbenzene	2.968	2.940	3.391	3.812	2.991	3.188	3.215	10.54
91)	1,3 Dichlorobenzene	1.430	1.418	1.649	1.828	1.427	1.521	1.545	10.61
92)	4-Isopropyltoluene	2.409	2.397	2.822	3.087	2.406	2.531	2.609	10.93
93)	1,4 Dichlorobenzene	1.481	1.455	1.754	1.950	1.477	1.554	1.612	12.34
94)	n-Butylbenzene	2.176	2.166	2.485	2.717	2.163	2.289	2.333	9.66
95)	1,2 Dichlorobenzene	1.283	1.308	1.499	1.679	1.292	1.362	1.404	11.18
96)	Hexachloroethane	0.930	0.906	1.035	1.132	0.943	1.008	0.993	8.45
97)	1,2-Dibromo-3-Chlor	0.157	0.158	0.198		0.178	0.179	0.174	9.83
98)	1,2,4-Trichlorobenz	1.060	1.065	1.241	1.496	1.051	1.109	1.170	14.90
99)	Hexachlorobutadiene	0.766	0.762	0.890	1.007	0.771	0.808	0.834	11.69
100)	Naphthalene	1.406	1.476	1.818	2.372	1.486	1.529	1.681	21.86
101)	1,2,3-Trichlorobenz	0.877	0.907	1.061	1.370	0.888	0.931	1.006	18.93

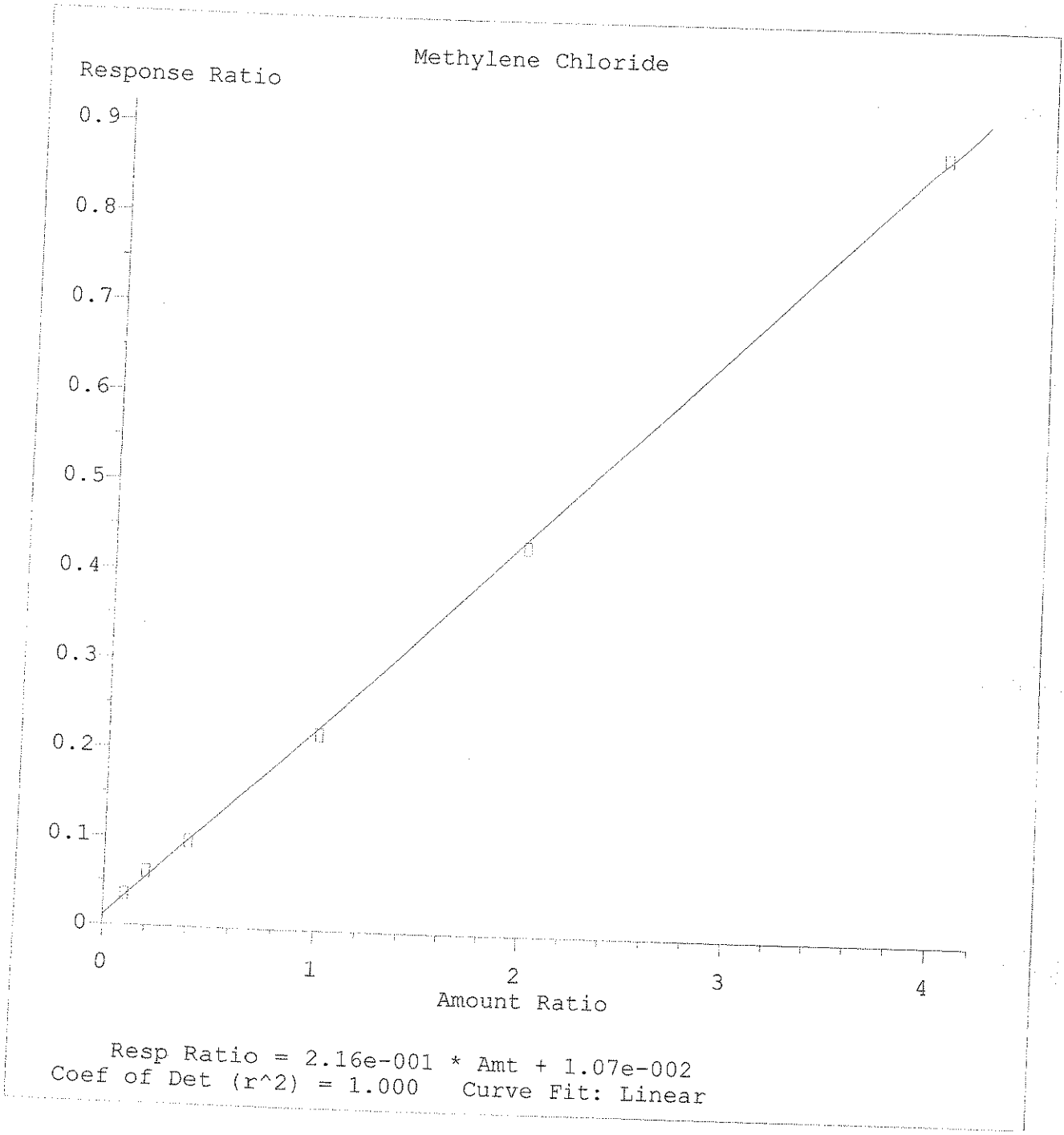
(#) = Out of Range



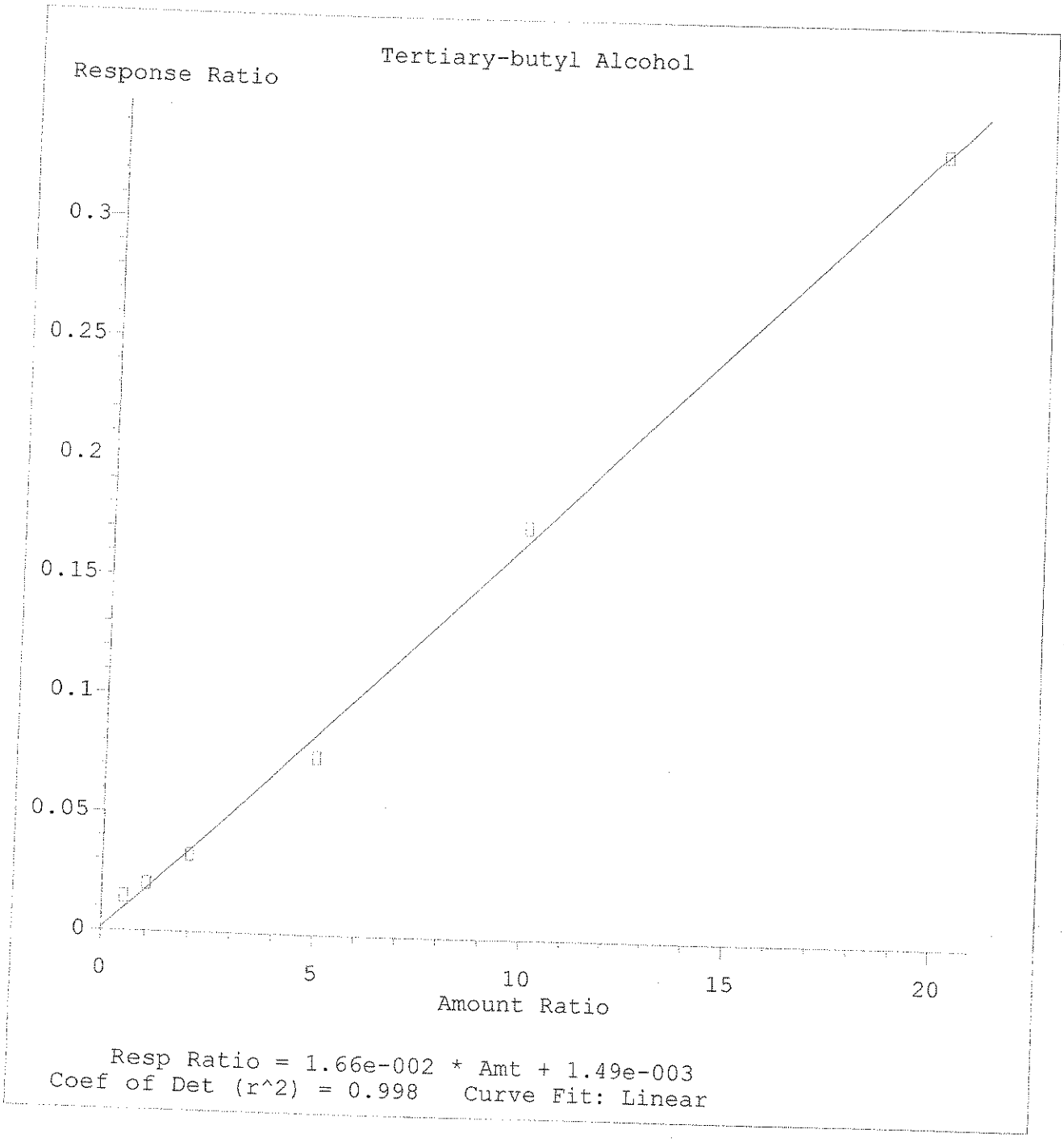
Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:23:38 2006



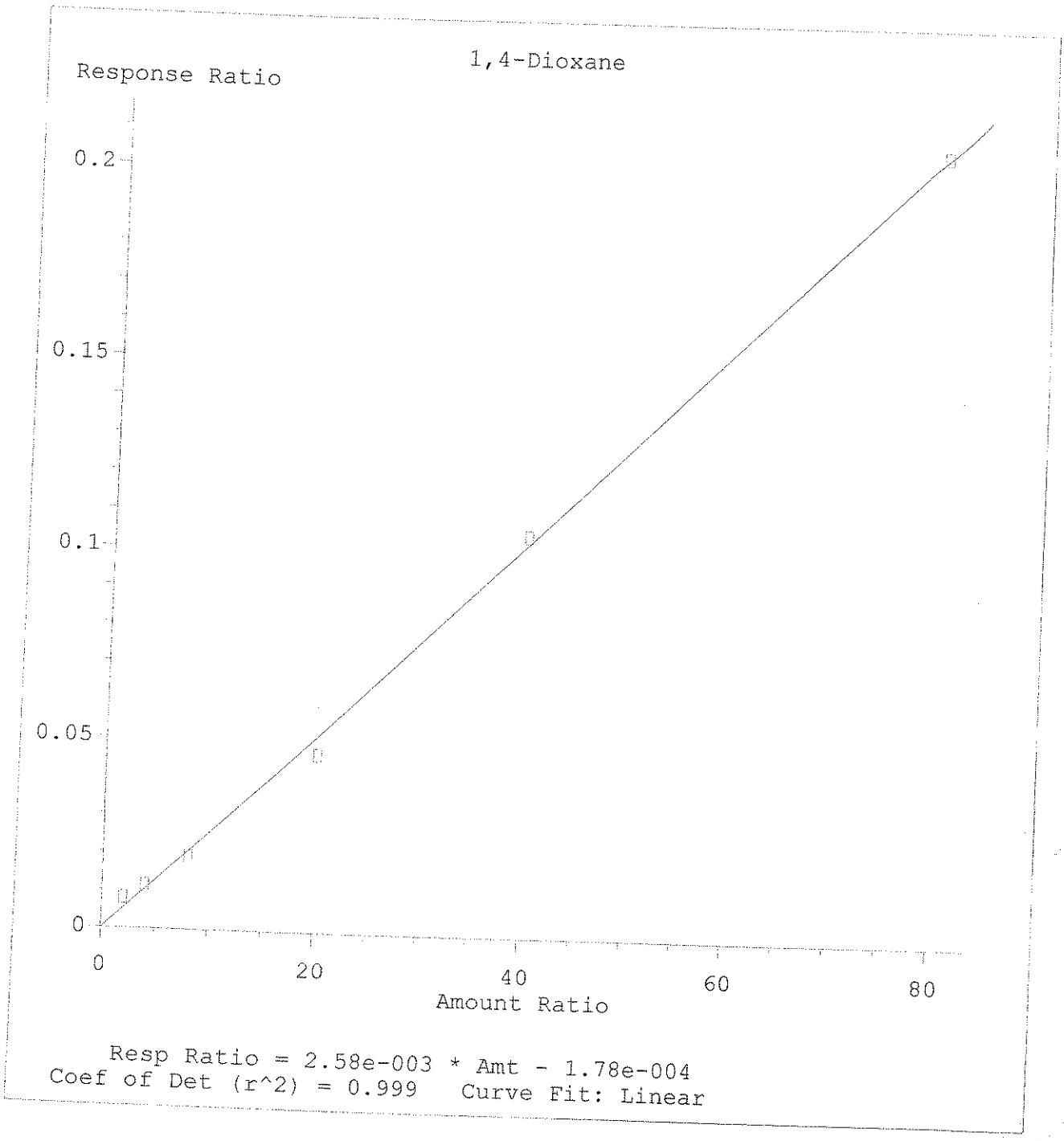
Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:24:44 2006



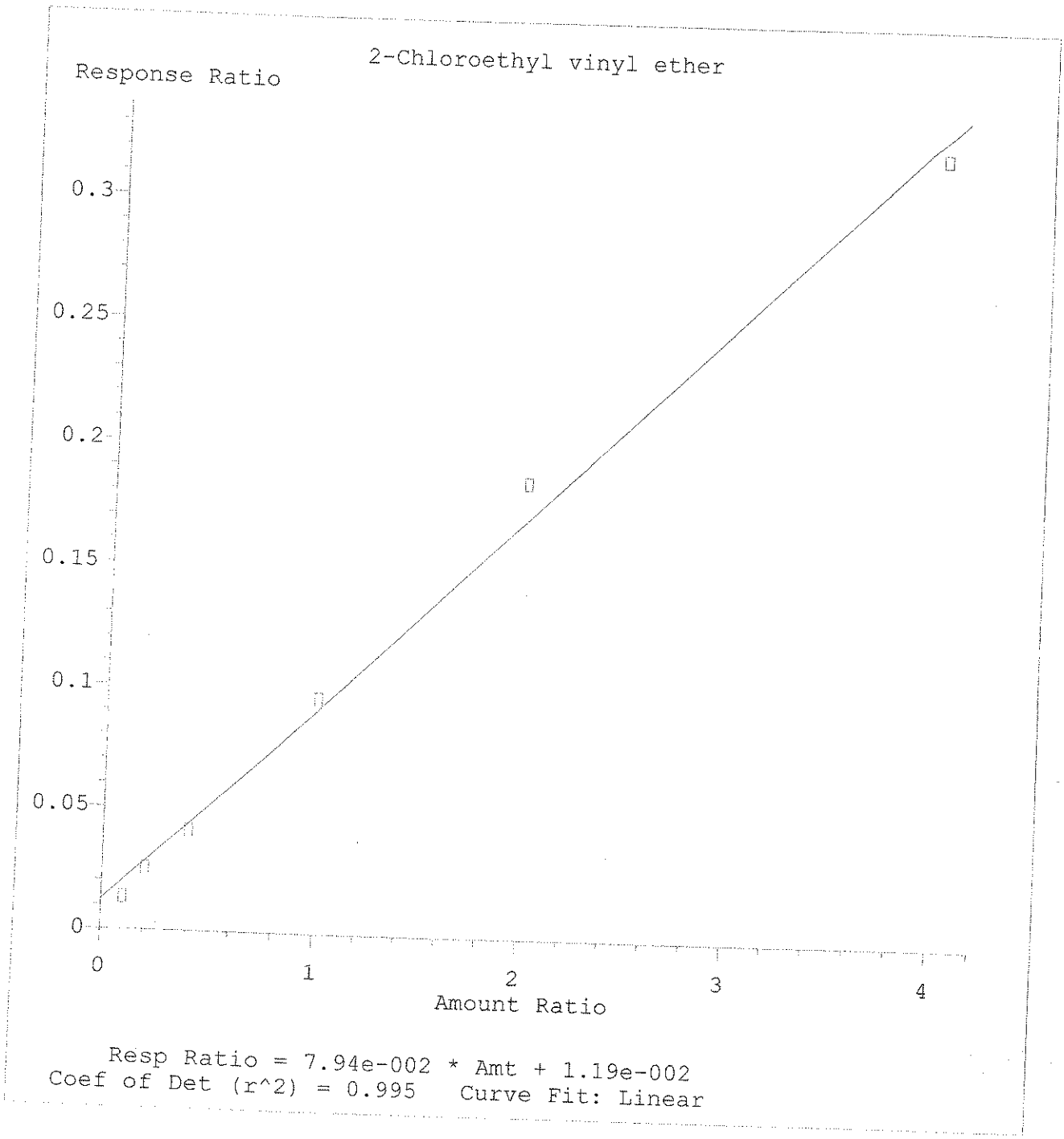
Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:25:03 2006



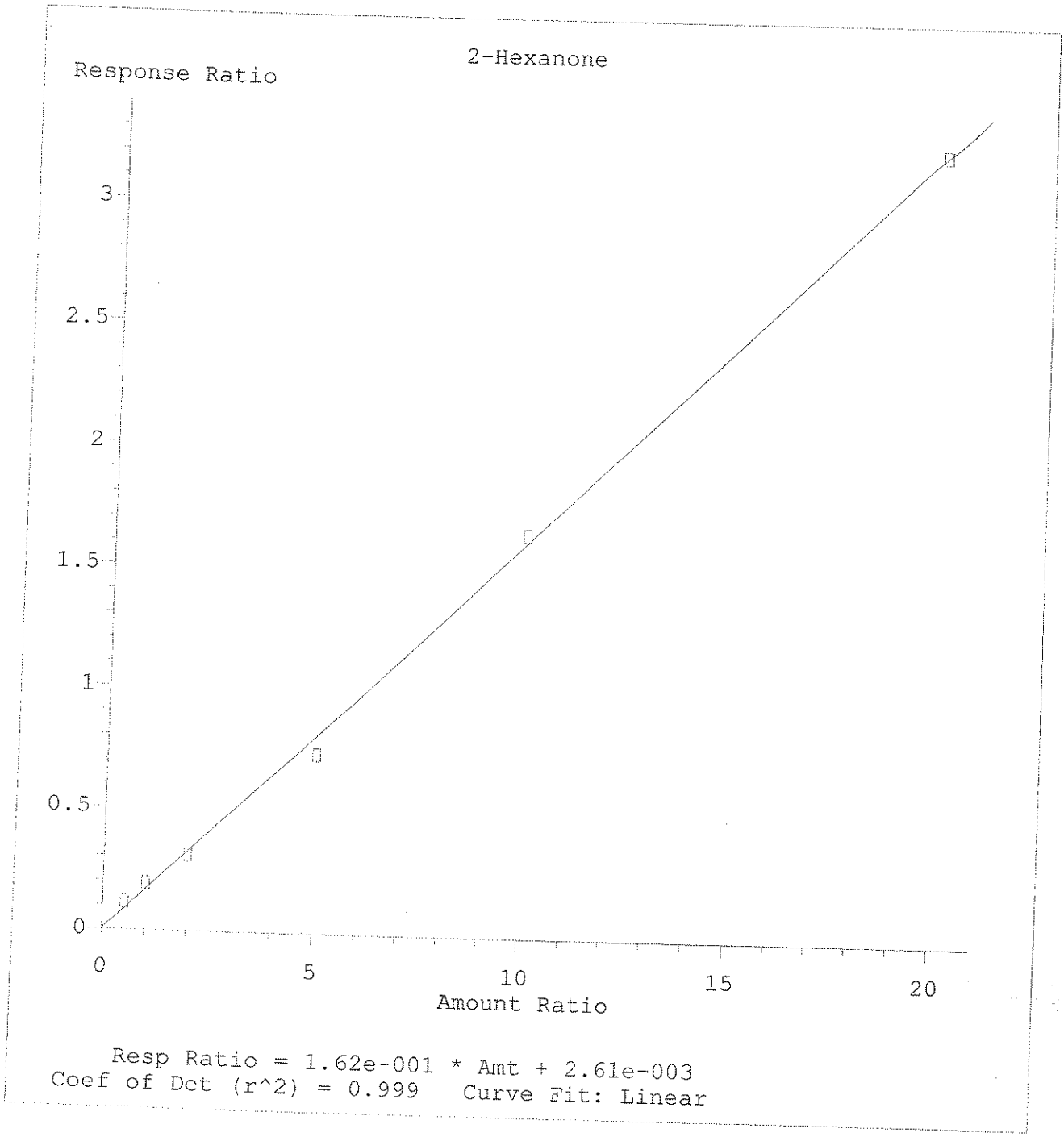
Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:25:08 2006



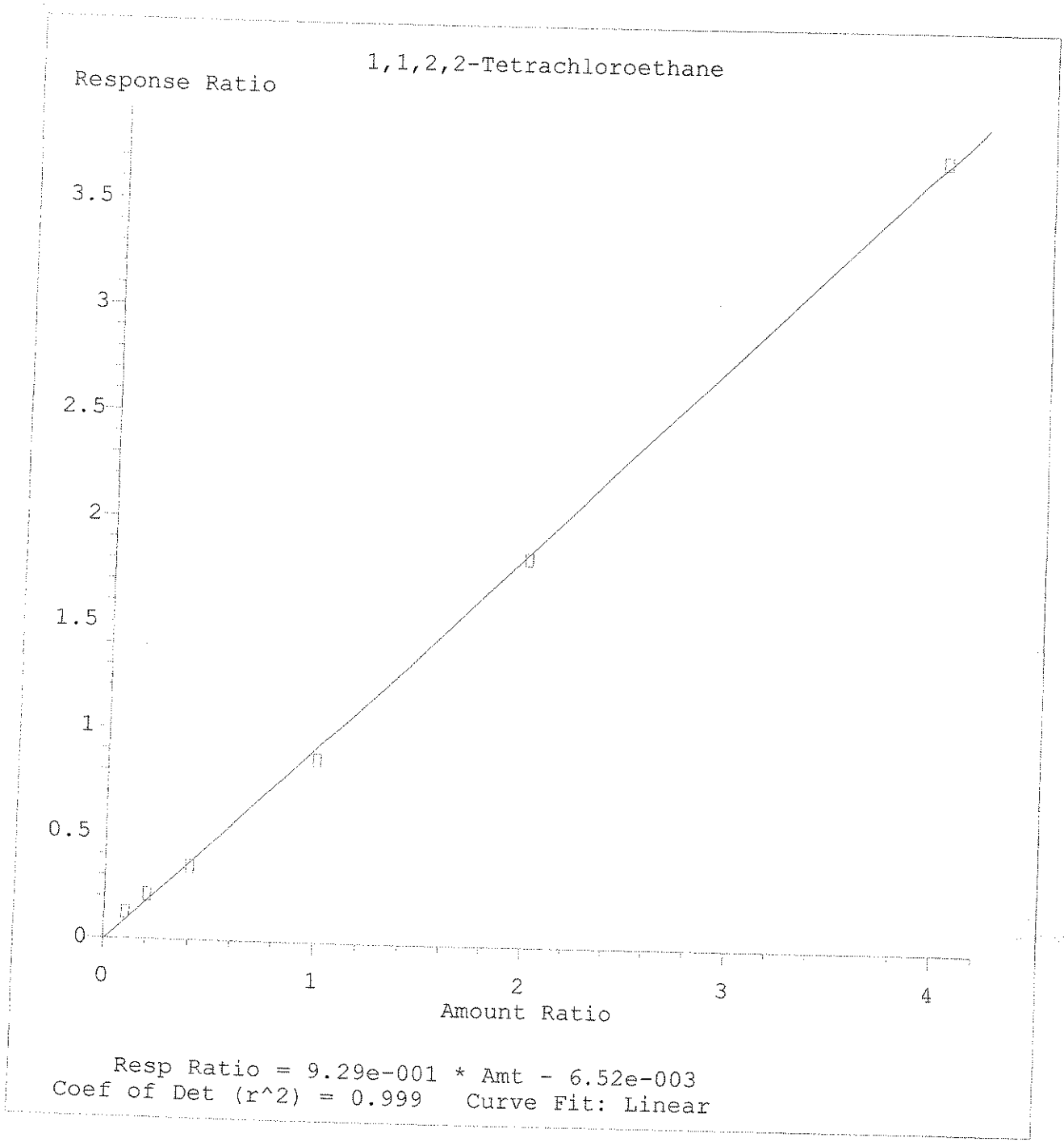
Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:25:24 2006



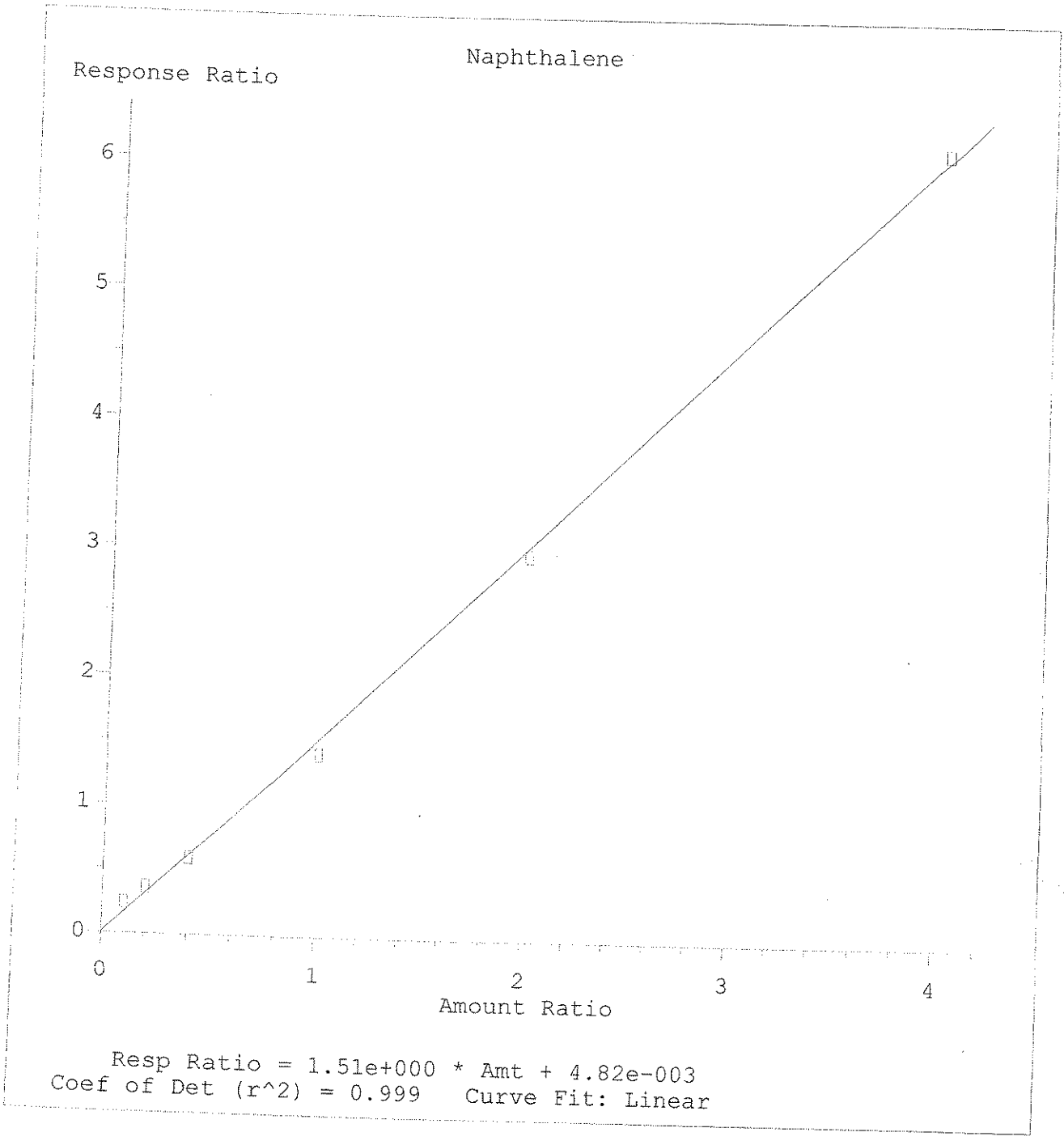
Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:25:36 2006



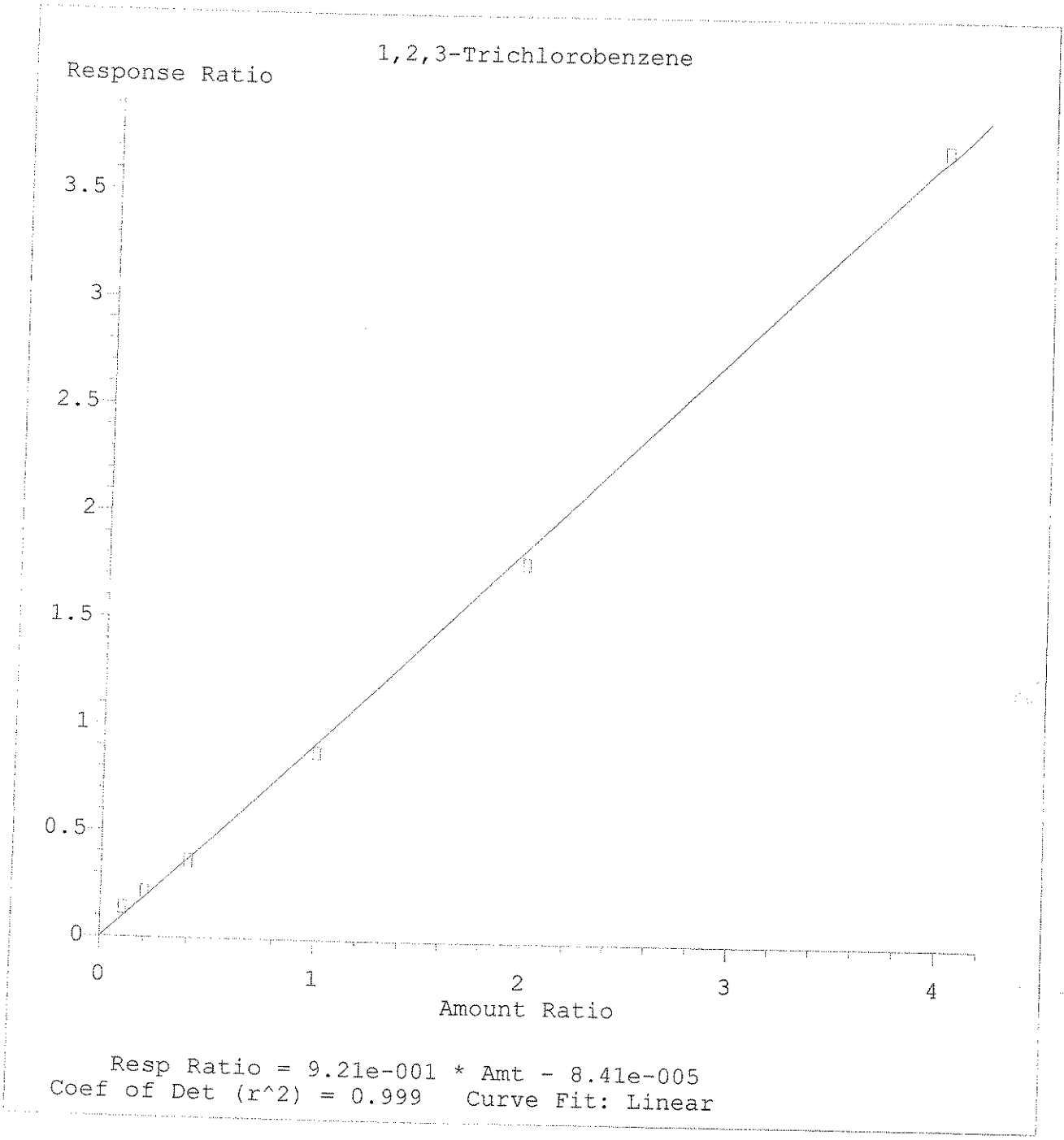
Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:25:51 2006



Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:26:03 2006



Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:26:31 2006



Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:26:38 2006

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH060606\M414938.D Vial: 9
Acq On : 6 Jun 2006 12:54 pm Operator: MD
Sample : BPF0045-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	98	0.00
2		Dichlorodifluoromethane	0.333	0.392	-17.7	124	0.00
3		Chloromethane	0.158	0.166	-5.1	114	0.00
4		Vinyl Chloride	0.174	0.184	-5.7	111	0.00
5		Bromomethane	0.160	0.154	3.8	102	0.00
6		Chloroethane	0.084	0.058	31.0#	67	0.00
7		Trichlorofluoromethane	0.584	0.570	2.4	103	0.00
8		Diethyl ether	0.105	0.108	-2.9	109	0.00
9		Acrolein	0.021	0.013	38.1#	70	0.01
10		1,1,2-Trichloro-1,2,2-trifl	0.575	0.558	3.0	101	0.00
11		Acetone	0.009	0.008	11.1	98	0.00
12		Iodomethane	0.572	0.627	-9.6	114	0.00
13		Carbon Disulfide	0.622	0.643	-3.4	110	0.00
14		1,1-Dichloroethene	0.247	0.264	-6.9	112	0.00
15		Allyl Chloride	0.248	0.238	4.0	100	0.00
16		Methyl Acetate	0.099	0.098	1.0	109	0.00
17		Methylene Chloride	0.259	0.240	7.3	107	0.00
18		Tertiary-butyl Alcohol	0.019	0.000	100.0#	0#	-2.98#
19		Methyl tert-Butyl Ether	0.425	0.411	3.3	102	0.00
20		Acrylonitrile	0.036	0.034	5.6	102	0.00
21		trans-1,2-Dichloroethene	0.285	0.285	0.0	105	0.00
22		1,1-Dichloroethane	0.456	0.450	1.3	104	0.00
23		Chloroprene	0.277	0.000	100.0#	0#	-3.68#
24		Vinyl Acetate	0.692	0.671	3.0	103	0.00
25		Di-isopropyl ether	0.680	0.690	-1.5	107	0.00
26		Ethyl tertiary-butyl ether	0.624	0.611	2.1	103	0.00
27		2-Butanone	0.018	0.017	5.6	103	0.00
28		cis-1,2 Dichloroethene	0.322	0.342	-6.2	111	0.00
29		2,2-Dichloropropane	0.390	0.379	2.8	101	0.00
30		Methyl Acrylate	0.185	0.179	3.2	105	0.00
31		Methacrylonitrile	0.108	0.098	9.3	104	0.00
32		Bromochloromethane	0.241	0.243	-0.8	105	0.00
33		Tetrahydrofuran	0.048	0.048	0.0	105	0.00
34		Chloroform	0.574	0.572	0.3	105	0.00
35		1,1,1-Trichloroethane	0.560	0.555	0.9	105	0.00
36	S	Dibromofluoromethane(SURR)	0.758	0.729	3.8	103	0.00
37		Cyclohexane	0.313	0.321	-2.6	106	0.00
38		1-Chlorobutane	0.412	0.429	-4.1	113	0.00
39		1,1-Dichloropropene	0.392	0.387	1.3	105	0.00
40		Carbon Tetrachloride	0.614	0.601	2.1	104	0.00
41		Benzene	0.707	0.711	-0.6	106	0.00
42	S	1,2-Dichloroethane-d4(SURR)	0.243	0.234	4.9	102	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH060606\M414938.D Vial: 9
Acq On : 6 Jun 2006 12:54 pm Operator: MD
Sample : BPF0045-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		1,2-Dichloroethane	0.257	0.246	4.3	100	0.00
44		Tertiary-amyl methyl ether	0.571	0.576	-0.9	106	0.00
45		Trichloroethene	0.414	0.408	1.4	104	0.00
46		Methyl Cyclohexane	0.400	0.415	-3.7	109	0.00
47		1,2-Dichloropropane	0.285	0.277	2.8	102	0.00
48		Dibromomethane	0.337	0.342	-1.5	106	0.00
49		1,4-Dioxane	0.003	0.003	0.0	109	0.00
50		Methyl Methacrylate	0.181	0.170	6.1	100	0.00
51		Bromodichloromethane	0.587	0.613	-4.4	108	0.00
52		2-Nitropropane	0.048	0.047	2.1	108	0.00
53		2-Chloroethyl vinyl ether	0.105	0.112	-6.7	114	0.00
54		4-Methyl-2-Pentanone	0.086	0.080	7.0	103	0.00
55		cis-1,3-Dichloropropene	0.436	0.417	4.4	99	0.00
56		Toluene	0.545	0.542	0.6	104	0.00
57		trans-1,3-Dichloropropene	0.363	0.320	11.8	92	0.00
58		1,1,2-Trichloroethane	0.246	0.240	2.4	103	0.00
59	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
60	S	Toluene-d8 (SURR)	1.083	1.056	2.5	102	0.00
61		2-Hexanone	0.174	0.158	9.2	105	0.01
62		Ethyl Methacrylate	0.380	0.361	5.0	101	0.00
63		1,3-Dichloropropane	0.462	0.456	1.3	103	0.00
64		Tetrachloroethene	0.490	0.481	1.8	102	0.00
65		Dibromochloromethane	0.797	0.806	-1.1	105	0.00
66		1,2-Dibromoethane	0.607	0.588	3.1	102	0.00
67		1-Chlorohexane	0.516	0.512	0.8	104	0.00
68		Chlorobenzene	0.931	0.912	2.0	102	0.00
69		1,1,1,2-Tetrachloroethane	0.543	0.522	3.9	102	0.00
70		Ethylbenzene	1.292	1.305	-1.0	104	0.00
71		Xylene P,M	0.534	0.534	0.0	104	0.00
72		Xylene O	0.508	0.503	1.0	104	0.00
73		Styrene	0.868	0.879	-1.3	104	0.00
74		Bromoform	0.583	0.578	0.9	104	0.00
75		cis-1,4-Dichloro-2-butene	0.115	0.000	100.0#	0#	-13.74#
76	S	Bromofluorobenzene (SURR)	0.733	0.713	2.7	101	0.00
77	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	95	0.00
78		Isopropylbenzene	2.587	2.385	7.8	95	0.00
79		Trans-1,4-Dichloro-2-Butene	0.155	0.144	7.1	94	0.00
80		1,2,3-Trichloropropane	0.748	0.742	0.8	108	0.00
81		Bromobenzene	0.910	0.943	-3.6	106	0.00
82		1,1,2,2-Tetrachloroethane	0.9[illegible]	0.923	6.0	101	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH060606\M414938.D Vial: 9
Acq On : 6 Jun 2006 12:54 pm Operator: MD
Sample : BPF0045-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	n-Propylbenzene	3.314	3.324	-0.3	100	0.00
84	2-Chlorotoluene	1.625	1.620	0.3	108	0.00
85	4-Chlorotoluene	2.186	2.143	2.0	101	0.00
86	1,3,5-Trimethylbenzene	2.128	2.146	-0.8	104	0.00
87	Pentachloroethane	2.994	2.994	0.0	103	0.00
88	tert-Butylbenzene	2.994	2.994	0.0	103	0.00
89	1,2,4-Trimethylbenzene	2.152	2.186	-1.6	105	0.00
90	sec-Butylbenzene	3.215	3.196	0.6	102	0.00
91	1,3 Dichlorobenzene	1.545	1.494	3.3	99	0.00
92	4-Isopropyltoluene	2.609	2.568	1.6	101	0.00
93	1,4 Dichlorobenzene	1.612	1.532	5.0	98	0.00
94	n-Butylbenzene	2.333	2.336	-0.1	102	0.00
95	1,2 Dichlorobenzene	1.404	1.369	2.5	101	0.00
96	Hexachloroethane	0.993	1.002	-0.9	102	0.00
97	1,2-Dibromo-3-Chloropropane	0.174	0.173	0.6	105	0.00
98	1,2,4-Trichlorobenzene	1.170	1.126	3.8	101	0.00
99	Hexachlorobutadiene	0.834	0.815	2.3	101	0.00
100	Naphthalene	1.681	1.562	7.1	105	0.00
101	1,2,3-Trichlorobenzene	1.006	0.965	4.1	104	0.00

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH060606\M414938.D Vial: 9
Acq On : 6 Jun 2006 12:54 pm Operator: MD
Sample : BPF0045-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 6 14:25 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.25	96	4218516	25.00	ug/l	0.00
59) Chlorobenzene-d5	11.58	117	3603135	25.00	ug/l	0.00
77) 1,4 Dichlorobenzene-D4	15.98	152	2042242	25.00	ug/l	0.00
System Monitoring Compounds						
36) Dibromofluoromethane(SURR)	5.18	111	3073481	24.02	ug/l	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 96.08%			
42) 1,2-Dichloroethane-d4(SURR	5.68	65	986507	23.78	ug/l	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 95.12%			
60) Toluene-d8 (SURR)	9.00	98	3806538	24.38	ug/l	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 97.52%			
76) Bromofluorobenzene (SURR)	13.79	95	2570827	24.32	ug/l	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 97.28%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.20	85	1655382	29.44	ug/l	100
3) Chloromethane	1.35	50	701621	26.25	ug/l	99
4) Vinyl Chloride	1.41	62	775868	26.50	ug/l	99
5) Bromomethane	1.64	94	649151m	24.11	ug/l	
6) Chloroethane	1.69	64	244853	17.58	ug/l	95
7) Trichlorofluoromethane	1.89	101	2403302	24.40	ug/l	100
8) Diethyl ether	2.14	59	456836	25.73	ug/l	99
9) Acrolein	2.25	56	56221	16.14	ug/l	98
10) 1,1,2-Trichloro-1,2,2-trif	2.32	101	2353334	24.25	ug/l	93
11) Acetone	2.39	58	177456	110.78	ug/l	97
12) Iodomethane	2.44	142	2645355	27.39	ug/l	100
13) Carbon Disulfide	2.48	76	2714216	25.84	ug/l	100
14) 1,1-Dichloroethene	2.30	96	1112272	26.69	ug/l	98
15) Allyl Chloride	2.65	41	1004598	24.05	ug/l	95
16) Methyl Acetate	2.69	43	412967	25.97	ug/l	99
17) Methylene Chloride	2.77	84	1012934	26.59	ug/l	99
19) Methyl tert-Butyl Ether	3.09	73	1731847	24.17	ug/l	99
20) Acrylonitrile	3.05	53	142778	23.21	ug/l	97
21) trans-1,2-Dichloroethene	3.05	96	1200308	24.94	ug/l	98
22) 1,1-Dichloroethane	3.56	63	1897387	24.64	ug/l	100
24) Vinyl Acetate	3.69	43	2831053	24.24	ug/l	98
25) Di-isopropyl ether	3.72	45	2908719	25.35	ug/l	92
26) Ethyl tertiary-butyl ether	4.25	59	2577994	24.47	ug/l	100
27) 2-Butanone	4.49	72	364285	119.57	ug/l	99
28) cis-1,2 Dichloroethene	4.40	96	1441731	26.54	ug/l	98
29) 2,2-Dichloropropane	4.39	77	1597262	24.26	ug/l	99
30) Methyl Acrylate	4.64	55	754052	24.14	ug/l	99

(#) = qualifier out of range (m) = manual integration

Data File : Q:/VOA/MS4_MH/MH0606/MH060606\M414938.D Vial: 9
Acq On : 6 Jun 2006 12:54 pm Operator: MD
Sample : BPF0045-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 6 14:25 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
31) Methacrylonitrile	4.81	41	411849	22.68 ug/l	99
32) Bromochloromethane	4.76	128	1024147	25.13 ug/l	97
33) Tetrahydrofuran	4.85	42	202176	24.77 ug/l	99
34) Chloroform	4.92	83	2414533	24.95 ug/l	99
35) 1,1,1-Trichloroethane	5.16	97	2343111	24.78 ug/l	100
37) Cyclohexane	5.22	56	1354685	25.66 ug/l	99
38) 1-Chlorobutane	5.36	56	1810072	26.03 ug/l	99
39) 1,1-Dichloropropene	5.43	75	1632466	24.68 ug/l	99
40) Carbon Tetrachloride	5.42	117	2533910	24.45 ug/l	100
41) Benzene	5.76	78	3000675	25.17 ug/l	100
43) 1,2-Dichloroethane	5.80	62	1039494	23.95 ug/l	98
44) Tertiary-amyl methyl ether	6.04	73	2427781	25.19 ug/l	99
45) Trichloroethene	6.86	95	1722516	24.67 ug/l	98
46) Methyl Cyclohexane	7.16	83	1751764	25.96 ug/l	100
47) 1,2-Dichloropropane	7.23	63	1168294	24.29 ug/l	100
48) Dibromomethane	7.42	93	1440658	25.33 ug/l	97
49) 1,4-Dioxane	7.53	88	217620	501.81 ug/l	98
50) Methyl Methacrylate	7.57	41	718464	23.50 ug/l	99
51) Bromodichloromethane	7.75	83	2584400	26.11 ug/l	100
52) 2-Nitropropane	8.18	43	196686	24.48 ug/l	99
53) 2-Chloroethyl vinyl ether	8.36	63	470652	31.38 ug/l	97
54) 4-Methyl-2-Pentanone	8.90	58	1686451	115.98 ug/l	87
55) cis-1,3-Dichloropropene	8.54	75	1758785	23.93 ug/l	98
56) Toluene	9.11	92	2288436	24.89 ug/l	99
57) trans-1,3-Dichloropropene	9.57	75	1351432	22.07 ug/l	99
58) 1,1,2-Trichloroethane	9.88	83	1013661	24.38 ug/l	98
61) 2-Hexanone	10.42	43	2847516	121.86 ug/l	99
62) Ethyl Methacrylate	9.84	69	1299357	23.70 ug/l	96
63) 1,3-Dichloropropane	10.15	76	1642370	24.65 ug/l	100
64) Tetrachloroethene	10.06	164	1734694	24.54 ug/l	99
65) Dibromochloromethane	10.53	129	2902755	25.28 ug/l	99
66) 1,2-Dibromoethane	10.68	107	2119948	24.22 ug/l	99
67) 1-Chlorohexane	11.70	91	1846121	24.85 ug/l	99
68) Chlorobenzene	11.62	112	3285783	24.50 ug/l	99
69) 1,1,1,2-Tetrachloroethane	11.80	131	1879185	24.00 ug/l	99
70) Ethylbenzene	11.87	91	4701035	25.25 ug/l	100
71) Xylene P,M	12.11	106	3845429	49.97 ug/l	99
72) Xylene O	12.83	106	1812208	24.76 ug/l	98
73) Styrene	12.86	104	3168890	25.32 ug/l	99
74) Bromoform	13.14	173	2081088	24.77 ug/l	100
78) Isopropylbenzene	13.54	105	4870548	23.05 ug/l	100
79) Trans-1,4-Dichloro-2-Buten	14.27	53	293549	23.14 ug/l	94

(#) = qualifier out of range (m) = manual integration

Data File : Q:/VOA/MS4_MH/MH0606/MH060606\M414938.D Vial: 9
Acq On : 6 Jun 2006 12:54 pm Operator: MD
Sample : BPF0045-SCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 6 14:25 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
80) 1,2,3-Trichloropropane	14.18	75	1515359	24.78 ug/l	100
81) Bromobenzene	14.02	156	1924903	25.90 ug/l	99
82) 1,1,2,2-Tetrachloroethane	14.15	83	1884158	25.02 ug/l	99
83) n-Propylbenzene	14.33	91	6787427	25.07 ug/l	99
84) 2-Chlorotoluene	14.42	91	3307599	24.92 ug/l	94
85) 4-Chlorotoluene	14.64	91	4377399	24.51 ug/l	99
86) 1,3,5-Trimethylbenzene	14.70	105	4381765	25.21 ug/l	100
87) Pentachloroethane	15.28	119	6113794	25.00 ug/l	99
88) tert-Butylbenzene	15.28	119	6113794	25.00 ug/l	99
89) 1,2,4-Trimethylbenzene	15.39	105	4463353	25.39 ug/l	99
90) sec-Butylbenzene	15.71	105	6527574	24.86 ug/l	99
91) 1,3 Dichlorobenzene	15.85	146	3051217	24.17 ug/l	100
92) 4-Isopropyltoluene	16.03	119	5244295	24.61 ug/l	99
93) 1,4 Dichlorobenzene	16.03	146	3128473	23.76 ug/l	99
94) n-Butylbenzene	16.82	91	4770184	25.03 ug/l	99
95) 1,2 Dichlorobenzene	16.71	146	2795854	24.38 ug/l	100
96) Hexachloroethane	17.19	117	2047296	25.25 ug/l	98
97) 1,2-Dibromo-3-Chloropropan	18.26	75	353464	24.83 ug/l	96
98) 1,2,4-Trichlorobenzene	20.16	180	2300044	24.06 ug/l	100
99) Hexachlorobutadiene	20.57	225	1664291	24.43 ug/l	99
100) Naphthalene	20.61	128	3189021	25.71 ug/l	100
101) 1,2,3-Trichlorobenzene	21.01	180	1970550	26.20 ug/l	98

ANALYSIS SEQUENCE

BPF0061

Instrument: VMS4

Calibnration ID: 0606010 L0060606.M

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0061-TUN1	QC		1		6F07073		
BPF0061-CCV1	QC		2		6F07075	6E24035	
BF60729-BS1	QC		3			6E24035	
BF60729-BSD1	QC		4			6E24035	
BF60729-BLK1	QC		5			6E24035	
0606078-03	)C: x5035/8260 ppb Low Lev	C	6			6E24035	MACTEC Engineering & Consulting, In
0606078-04	)C: x5035/8260 ppb Low Lev	E	7			6E24035	MACTEC Engineering & Consulting, In
0606078-08	)C: x5035/8260 ppb Low Lev	C	8			6E24035	MACTEC Engineering & Consulting, In
0606078-09	)C: x5035/8260 ppb Low Lev	B	9			6E24035	MACTEC Engineering & Consulting, In
0606078-10	)C: x5035/8260 ppb Low Lev	D	10			6E24035	MACTEC Engineering & Consulting, In
0606078-13	B: 5035/8260 ppb Low Leve	A	11			6E24035	MACTEC Engineering & Consulting, In
0606078-17	)C: x5035/8260 ppb Low Lev	D	12			6E24035	MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY MS-4 RUN LOG

BATCH,DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/7/06	1	M4 14939	BPF0061 - TVM1	L006606	6F07073	mp
	2	M4 40	BPF0061 - CCV1		6F07075	
	3	M4 41	BF60729 - BS1		6F07077	
	4	M4 42	BF60729 - BSD1		6F07077	
	5	M4 43	TestBlk			
	6	M4 44	BF60729 - BLK1		06/7/06	
	7	M4 45	0606078-13		5/10 TD D2850	
	8	M4 46	0606078-01		6.2/10 RR-IS's out D2840	
	9	M4 47	-02		5.7/10 RR-IS's out D2817	
355	10	M4 48	-03		6.6/10 D2816	
	11	M4 49	-04		5.9/10 D2828	
	12	M4 50	-05		5.6/10 RR-IS's out D2827	
	13	M4 51	-08		5.7/10 D2851	
	14	M4 52	-09		5.4/10 D2839	
	15	M4 53	-10		6/10 D2879	
6/7/06	16	M4 54	-11	L006606	4.7/10 RR-IS's out D2866	mp
6/8/06	1	M4 55	BPF0070 - TVM1	L006606	6F08051	mp

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6E24033

On-column IS: 6E24035

Page _____

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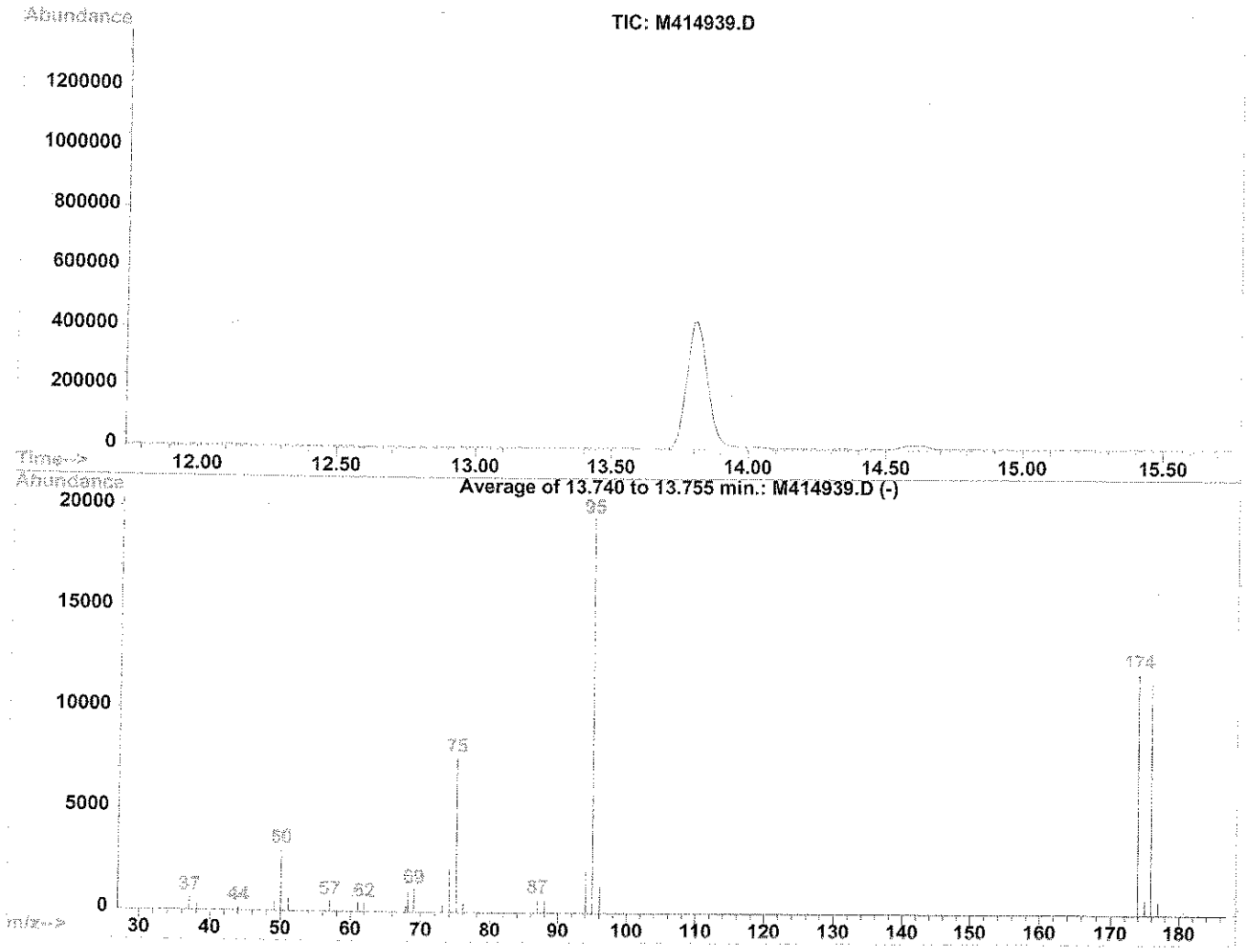
BFB

Data File : Q:/VOA/MS4_MH/MH0606/MH060706\M414939.D Vial: 1
Acq On : 7 Jun 2006 11:14 am Operator: MD
Sample : BPF0061-TUN1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010



Spectrum Information: Average of 13.740 to 13.755 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.4	3018	PASS
75	95	30	60	39.1	7631	PASS
95	95	100	100	100.0	19536	PASS
96	95	5	9	6.6	1288	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	61.2	11956	PASS
175	174	5	9	6.1	731	PASS
176	174	95	101	96.2	11501	PASS
177	176	5	9	5.5	635	PASS

M414939.D LO060606.M Wed Jun 07 14:32:47 2006 MS4

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH060706\M414940.D Vial: 2
Acq On : 7 Jun 2006 11:44 am Operator: MD
Sample : BPF0061-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	101	0.00
2		Dichlorodifluoromethane	0.333	0.304	8.7	98	0.00
3		Chloromethane	0.158	0.143	9.5	101	0.00
4		Vinyl Chloride	0.174	0.162	6.9	100	0.00
5		Bromomethane	0.160	0.142	11.3	97	0.00
6		Chloroethane	0.084	0.074	11.9	88	0.00
7		Trichlorofluoromethane	0.584	0.532	8.9	99	0.00
8		Diethyl ether	0.105	0.097	7.6	100	0.00
9		Acrolein	0.021	0.021	0.0	114	0.00
10		1,1,2-Trichloro-1,2,2-trifl	0.575	0.523	9.0	97	0.00
11		Acetone	0.009	0.010	-11.1	119	0.00
12		Iodomethane	0.572	0.567	0.9	106	0.00
13		Carbon Disulfide	0.622	0.565	9.2	99	0.00
14		1,1-Dichloroethene	0.247	0.227	8.1	99	0.00
15		Allyl Chloride	0.248	0.230	7.3	99	0.00
16		Methyl Acetate	0.099	0.097	2.0	111	0.00
17		Methylene Chloride	0.259	0.225	13.1	103	0.00
18		Tertiary-butyl Alcohol	0.019	0.020	-5.3	136	0.00
19		Methyl tert-Butyl Ether	0.425	0.432	-1.6	110	0.00
20		Acrylonitrile	0.036	0.041	-13.9	127	0.00
21		trans-1,2-Dichloroethene	0.285	0.292	-2.5	111	0.00
22		1,1-Dichloroethane	0.456	0.417	8.6	99	0.00
23		Chloroprene	0.277	0.254	8.3	98	0.00
24		Vinyl Acetate	0.692	0.650	6.1	103	0.00
25		Di-isopropyl ether	0.680	0.623	8.4	99	0.02
26		Ethyl tertiary-butyl ether	0.624	0.575	7.9	100	0.00
27		2-Butanone	0.018	0.019	-5.6	115	0.00
28		cis-1,2 Dichloroethene	0.322	0.298	7.5	99	0.00
29		2,2-Dichloropropane	0.390	0.359	7.9	99	0.00
30		Methyl Acrylate	0.185	0.183	1.1	110	0.00
31		Methacrylonitrile	0.108	0.102	5.6	112	0.00
32		Bromochloromethane	0.241	0.223	7.5	99	0.00
33		Tetrahydrofuran	0.048	0.052	-8.3	116	0.00
34		Chloroform	0.574	0.524	8.7	99	0.00
35		1,1,1-Trichloroethane	0.560	0.508	9.3	99	0.00
36	S	Dibromofluoromethane(SURR)	0.758	0.676	10.8	98	0.00
37		Cyclohexane	0.313	0.288	8.0	97	0.02
38		1-Chlorobutane	0.412	0.373	9.5	101	0.02
39		1,1-Dichloropropene	0.392	0.357	8.9	99	0.02
40		Carbon Tetrachloride	0.614	0.548	10.7	98	0.00
41		Benzene	0.707	0.649	8.2	100	0.02
42	S	1,2-Dichloroethane-d4(SURR)	0.356	0.223	9.3	100	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH060706\M414940.D Vial: 2
Acq On : 7 Jun 2006 11:44 am Operator: MD
Sample : BPF0061-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		1,2-Dichloroethane	0.257	0.239	7.0	100	0.00
44		Tertiary-amyl methyl ether	0.571	0.533	6.7	101	0.00
45		Trichloroethene	0.414	0.382	7.7	100	0.00
46		Methyl Cyclohexane	0.400	0.369	7.8	99	0.02
47		1,2-Dichloropropane	0.285	0.261	8.4	99	0.00
48		Dibromomethane	0.337	0.313	7.1	100	0.02
49		1,4-Dioxane	0.003	0.003	0.0	119	0.00
50		Methyl Methacrylate	0.181	0.169	6.6	102	0.00
51		Bromodichloromethane	0.587	0.541	7.8	98	0.02
52		2-Nitropropane	0.048	0.047	2.1	112	0.02
53		2-Chloroethyl vinyl ether	0.105	0.104	1.0	108	0.00
54		4-Methyl-2-Pentanone	0.086	0.085	1.2	113	0.00
55		cis-1,3-Dichloropropene	0.436	0.406	6.9	99	0.00
56		Toluene	0.545	0.504	7.5	99	0.00
57		trans-1,3-Dichloropropene	0.363	0.342	5.8	101	0.00
58		1,1,2-Trichloroethane	0.246	0.232	5.7	102	0.02
59	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.02
60	S	Toluene-d8 (SURR)	1.083	0.991	8.5	99	0.02
61		2-Hexanone	0.174	0.175	-0.6	120	0.02
62		Ethyl Methacrylate	0.380	0.367	3.4	106	0.00
63		1,3-Dichloropropane	0.462	0.430	6.9	101	0.00
64		Tetrachloroethene	0.490	0.446	9.0	98	0.00
65		Dibromochloromethane	0.797	0.743	6.8	100	0.00
66		1,2-Dibromoethane	0.607	0.565	6.9	101	0.00
67		1-Chlorohexane	0.516	0.478	7.4	100	0.00
68		Chlorobenzene	0.931	0.859	7.7	99	0.00
69		1,1,1,2-Tetrachloroethane	0.543	0.488	10.1	99	0.02
70		Ethylbenzene	1.292	1.182	8.5	98	0.02
71		Xylene P,M	0.534	0.491	8.1	99	0.00
72		Xylene O	0.508	0.465	8.5	99	0.00
73		Styrene	0.868	0.807	7.0	99	0.02
74		Bromoform	0.583	0.567	2.7	105	0.02
75		cis-1,4-Dichloro-2-butene	0.115	0.106	7.8	96	0.00
76	S	Bromofluorobenzene (SURR)	0.733	0.678	7.5	100	0.02
77	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	99	0.00
78		Isopropylbenzene	2.587	2.365	8.6	98	0.02
79		Trans-1,4-Dichloro-2-Butene	0.155	0.162	-4.5	111	0.00
80		1,2,3-Trichloropropane	0.748	0.781	-4.4	119	0.00
81		Bromobenzene	0.910	0.840	7.7	99	0.00
82		1,1,2,2-Tetrachloroethane	0.982	0.963	1.9	111	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH060706\M414940.D Vial: 2
Acq On : 7 Jun 2006 11:44 am Operator: MD
Sample : BPF0061-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	n-Propylbenzene	3.314	2.998	9.5	94	0.00
84	2-Chlorotoluene	1.625	1.580	2.8	110	0.02
85	4-Chlorotoluene	2.186	2.010	8.1	99	0.00
86	1,3,5-Trimethylbenzene	2.128	1.955	8.1	99	0.02
87	Pentachloroethane	2.994	2.764	7.7	99	0.00
88	tert-Butylbenzene	2.994	2.764	7.7	99	0.00
89	1,2,4-Trimethylbenzene	2.152	1.976	8.2	99	0.00
90	sec-Butylbenzene	3.215	2.952	8.2	99	0.00
91	1,3 Dichlorobenzene	1.545	1.421	8.0	99	0.00
92	4-Isopropyltoluene	2.609	2.386	8.5	98	0.00
93	1,4 Dichlorobenzene	1.612	1.491	7.5	100	0.00
94	n-Butylbenzene	2.333	2.160	7.4	99	0.02
95	1,2 Dichlorobenzene	1.404	1.296	7.7	100	0.02
96	Hexachloroethane	0.993	0.928	6.5	99	0.02
97	1,2-Dibromo-3-Chloropropane	0.174	0.186	-6.9	118	0.00
98	1,2,4-Trichlorobenzene	1.170	1.084	7.4	102	0.02
99	Hexachlorobutadiene	0.834	0.762	8.6	99	0.02
100	Naphthalene	1.681	1.561	7.1	110	0.02
101	1,2,3-Trichlorobenzene	1.006	0.909	9.6	103	0.00

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH060706\M414940.D Vial: 2
Acq On : 7 Jun 2006 11:44 am Operator: MD
Sample : BPF0061-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 7 14:41 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Fluorobenzene	6.26	96	4332774	25.00 ug/l	0.00
59) Chlorobenzene-d5	11.59	117	3733483	25.00 ug/l	0.02
77) 1,4 Dichlorobenzene-D4	16.00	152	2137620	25.00 ug/l	0.00
System Monitoring Compounds					
36) Dibromofluoromethane(SURR)	5.18	111	2927210	22.27 ug/l	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 89.08%		
42) 1,2-Dichloroethane-d4(SURR	5.68	65	964724	22.64 ug/l	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 90.56%		
60) Toluene-d8 (SURR)	9.02	98	3698350	22.86 ug/l	0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 91.44%		
76) Bromofluorobenzene (SURR)	13.81	95	2529788	23.10 ug/l	0.02
Spiked Amount 25.000	Range 70 - 130		Recovery = 92.40%		
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.22	85	1315518	22.78 ug/l	100
3) Chloromethane	1.35	50	620661	22.61 ug/l	98
4) Vinyl Chloride	1.41	62	700335	23.29 ug/l	100
5) Bromomethane	1.63	94	616799	22.30 ug/l	99
6) Chloroethane	1.71	64	322581	23.58 ug/l	99
7) Trichlorofluoromethane	1.90	101	2303717	22.77 ug/l	99
8) Diethyl ether	2.14	59	422335	23.16 ug/l	98
9) Acrolein	2.24	56	92170	25.77 ug/l	100
10) 1,1,2-Trichloro-1,2,2-trif	2.32	101	2263919	22.72 ug/l	99
11) Acetone	2.39	58	215169	130.78 ug/l	99
12) Iodomethane	2.45	142	2456744	24.77 ug/l	100
13) Carbon Disulfide	2.50	76	2449130	22.70 ug/l	100
14) 1,1-Dichloroethene	2.32	96	984382	23.00 ug/l	98
15) Allyl Chloride	2.65	41	994793	23.19 ug/l	100
16) Methyl Acetate	2.69	43	420390	25.74 ug/l	98
17) Methylene Chloride	2.78	84	972765	24.78 ug/l	99
18) Tertiary-butyl Alcohol	2.99	59	434775	149.30 ug/l	99
19) Methyl tert-Butyl Ether	3.09	73	1871698	25.44 ug/l	99
20) Acrylonitrile	3.06	53	177474	28.09 ug/l	98
21) trans-1,2-Dichloroethene	3.06	96	1265472	25.60 ug/l	99
22) 1,1-Dichloroethane	3.57	63	1806860	22.84 ug/l	100
23) Chloroprene	3.69	53	1101869	22.94 ug/l	99
24) Vinyl Acetate	3.69	43	2816917	23.48 ug/l	99
25) Di-isopropyl ether	3.73	45	2698307	22.89 ug/l	87
26) Ethyl tertiary-butyl ether	4.25	59	2490372	23.01 ug/l	100
27) 2-Butanone	4.49	72	403381	128.91 ug/l	99
28) cis-1,2 Dichloroethene	4.40	96	1292352	23.17 ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH060706\M414940.D Vial: 2
Acq On : 7 Jun 2006 11:44 am Operator: MD
Sample : BPF0061-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 7 14:41 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) 2,2-Dichloropropane	4.39	77	1556553	23.02 ug/l	99
30) Methyl Acrylate	4.64	55	793931	24.75 ug/l	99
31) Methacrylonitrile	4.80	41	441942	23.69 ug/l	98
32) Bromochloromethane	4.77	128	967191	23.11 ug/l	98
33) Tetrahydrofuran	4.85	42	223970	26.71 ug/l	92
34) Chloroform	4.92	83	2269660	22.83 ug/l	99
35) 1,1,1-Trichloroethane	5.16	97	2201790	22.67 ug/l	100
37) Cyclohexane	5.24	56	1246142	22.98 ug/l	99
38) 1-Chlorobutane	5.37	56	1616145	22.62 ug/l	100
39) 1,1-Dichloropropene	5.44	75	1547108	22.77 ug/l	98
40) Carbon Tetrachloride	5.41	117	2374271	22.30 ug/l	99
41) Benzene	5.77	78	2813790	22.98 ug/l	100
43) 1,2-Dichloroethane	5.82	62	1033852	23.19 ug/l	99
44) Tertiary-amyl methyl ether	6.04	73	2308321	23.32 ug/l	99
45) Trichloroethene	6.87	95	1653325	23.05 ug/l	98
46) Methyl Cyclohexane	7.17	83	1600416	23.09 ug/l	100
47) 1,2-Dichloropropane	7.24	63	1132242	22.92 ug/l	99
48) Dibromomethane	7.44	93	1358141	23.25 ug/l	96
49) 1,4-Dioxane	7.54	88	238394	535.10 ug/l	100
50) Methyl Methacrylate	7.59	41	732381	23.33 ug/l	100
51) Bromodichloromethane	7.77	83	2346082	23.08 ug/l	99
52) 2-Nitropropane	8.20	43	203900	24.71 ug/l	99
53) 2-Chloroethyl vinyl ether	8.38	63	449046	28.88 ug/l	99
54) 4-Methyl-2-Pentanone	8.91	58	1851667	123.98 ug/l	96
55) cis-1,3-Dichloropropene	8.55	75	1757528	23.28 ug/l	99
56) Toluene	9.12	92	2184959	23.14 ug/l	99
57) trans-1,3-Dichloropropene	9.58	75	1480189	23.53 ug/l	99
58) 1,1,2-Trichloroethane	9.89	83	1003270	23.50 ug/l	99
61) 2-Hexanone	10.43	43	3266150	134.93 ug/l	99
62) Ethyl Methacrylate	9.85	69	1369289	24.10 ug/l	94
63) 1,3-Dichloropropane	10.16	76	1604169	23.24 ug/l	99
64) Tetrachloroethene	10.07	164	1665285	22.74 ug/l	99
65) Dibromochloromethane	10.55	129	2772725	23.30 ug/l	100
66) 1,2-Dibromoethane	10.70	107	2108554	23.25 ug/l	100
67) 1-Chlorohexane	11.71	91	1782904	23.16 ug/l	100
68) Chlorobenzene	11.63	112	3208848	23.09 ug/l	100
69) 1,1,1,2-Tetrachloroethane	11.83	131	1820516	22.43 ug/l	99
70) Ethylbenzene	11.90	91	4414485	22.88 ug/l	100
71) Xylene P,M	12.13	106	3667060	45.99 ug/l	99
72) Xylene O	12.84	106	1736981	22.91 ug/l	99
73) Styrene	12.89	104	3011407	23.22 ug/l	99
74) Bromoform	13.17	173	2115913	24.30 ug/l	99

(#) = qualifier out of range (m) = manual integration
M414940.D LO060606.M Wed Jun 07 14:42:15 2006 MS4 Page 2

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH060706\M414940.D Vial: 2
Acq On : 7 Jun 2006 11:44 am Operator: MD
Sample : BPF0061-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 7 14:41 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75) cis-1,4-Dichloro-2-butene	13.75	75	394048m	22.89 ug/l	
78) Isopropylbenzene	13.57	105	5055495	22.86 ug/l	100
79) Trans-1,4-Dichloro-2-Buten	14.28	53	345701	26.03 ug/l	96
80) 1,2,3-Trichloropropane	14.19	75	1669519	26.09 ug/l	99
81) Bromobenzene	14.03	156	1794711	23.07 ug/l	98
82) 1,1,2,2-Tetrachloroethane	14.18	83	2059003	26.11 ug/l	100
83) n-Propylbenzene	14.34	91	6408343	22.62 ug/l	100
84) 2-Chlorotoluene	14.43	91	3377055m	24.31 ug/l	
85) 4-Chlorotoluene	14.66	91	4297536	22.99 ug/l	98
86) 1,3,5-Trimethylbenzene	14.72	105	4178571	22.97 ug/l	100
87) Pentachloroethane	15.30	119	5908878	23.08 ug/l	96
88) tert-Butylbenzene	15.30	119	5908878	23.08 ug/l	99
89) 1,2,4-Trimethylbenzene	15.40	105	4223952	22.96 ug/l	100
90) sec-Butylbenzene	15.73	105	6309718	22.95 ug/l	99
91) 1,3 Dichlorobenzene	15.86	146	3037907	22.99 ug/l	99
92) 4-Isopropyltoluene	16.04	119	5101240	22.87 ug/l	99
93) 1,4 Dichlorobenzene	16.04	146	3188079	23.13 ug/l	100
94) n-Butylbenzene	16.83	91	4617809	23.15 ug/l	99
95) 1,2 Dichlorobenzene	16.74	146	2770145	23.08 ug/l	99
96) Hexachloroethane	17.20	117	1984298	23.38 ug/l	98
97) 1,2-Dibromo-3-Chloropropan	18.27	75	398080	26.72 ug/l	94
98) 1,2,4-Trichlorobenzene	20.19	180	2317204	23.16 ug/l	100
99) Hexachlorobutadiene	20.59	225	1629159	22.85 ug/l	99
100) Naphthalene	20.64	128	3336869	25.70 ug/l	100
101) 1,2,3-Trichlorobenzene	21.03	180	1942423	24.67 ug/l	99

(#) = qualifier out of range (m) = manual integration
M414940.D LO060606.M Wed Jun 07 14:42:15 2006 MS4 Page 3

ANALYSIS SEQUENCE

BPF0070

Instrument: VMS4

Calibnration ID: 0606010 L0060606_M

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0070-TUN1	QC		1		6F08051		
BPF0070-CCV1	QC		2		6F08052	6E24035	
BF60811-BS1	QC		3			6E24035	
BF60811-BSD1	QC		4			6E24035	
BF60811-BLK1	QC		5			6E24035	
0606078-01	QC: x5035/8260 ppb Low Lev	F	6			6E24035	MACTEC Engineering & Consulting, In
0606078-02	QC: x5035/8260 ppb Low Lev	F	7			6E24035	MACTEC Engineering & Consulting, In
0606078-05	QC: x5035/8260 ppb Low Lev	F	8			6E24035	MACTEC Engineering & Consulting, In
0606113-03	QC: x5035/8260 ppb Low Lev	F	9			6E24035	MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

E33 LABORATORY — M3-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/8/06	2	M4 14956	BF0070-CCV1	1006606	6F08052	mo
	3	M4 57	BF60811-BS1		6F08053	
	4	M4 58	BF60811-BSD1		6F08053	
	5	M4 59	Test Blk			
	6	M4 60	BF60811-BLK1			
	7	M4 61	0606113-03		5.6/10 RR-Is's out D3952	
	8	M4 62	0606078-01		6.9/10 D2841	
	9	M4 63	-02		6.1/10 D3178	
	10	M4 64	-05		6.2/10 D2826	
	11	M4 65	-77		2.8/10 D2852	
3/4/06	12	M4 66	0606113-03	1006606	6.6/10 D3951	mo
6/9/06	1	M4 67	BF0082-TUN1		6F09036	
	2	M4 68	BF0082-CCV1		6F09037	
	3	M4 69	BF60918-BS1		6F09035	
	4	M4 70	BF60918-BSD1		6F09038	
	5	M4 71	Test Blk			
6/9/06	6	M4 72	BF60918-BLK1	1006606		mo

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

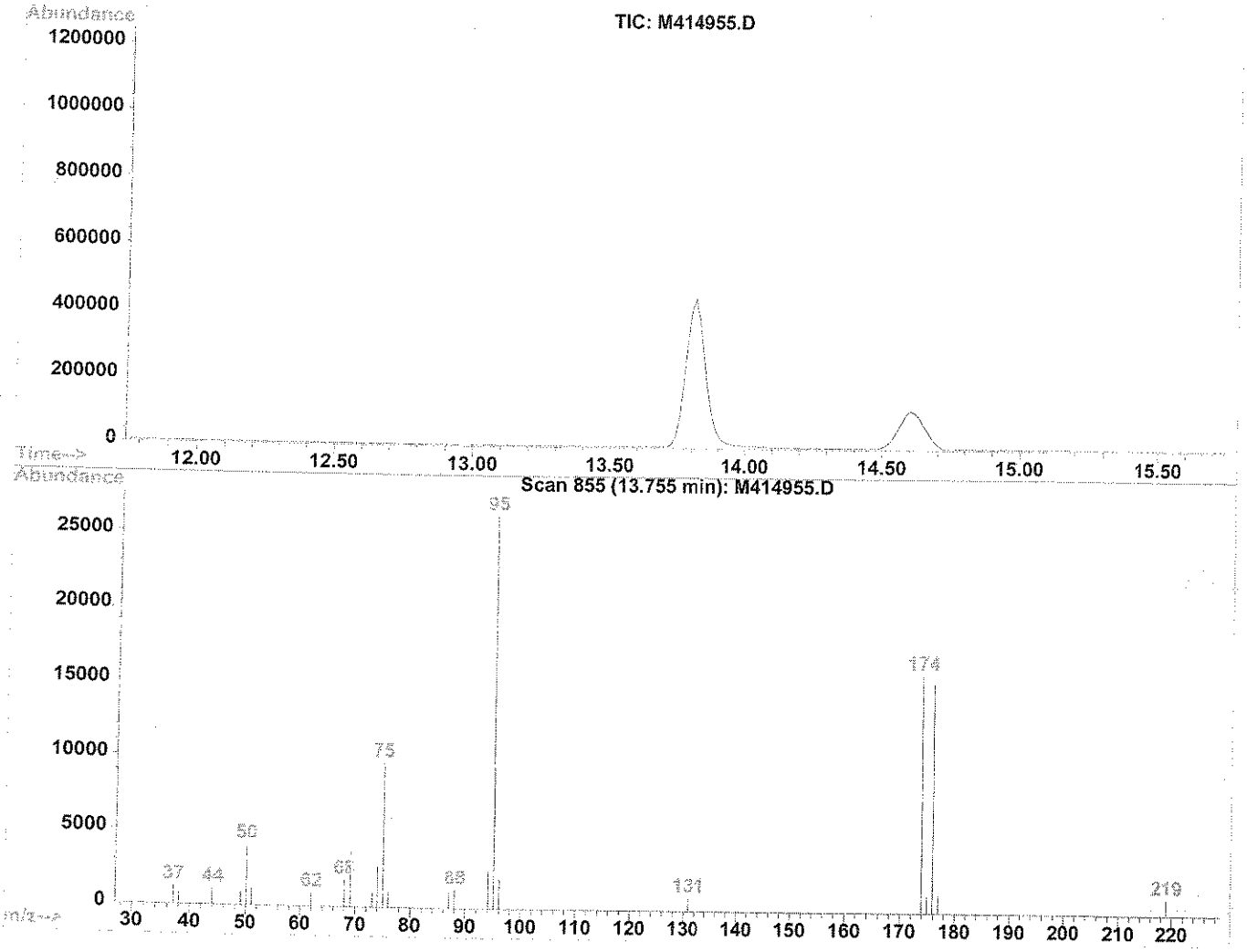
Surrogate: 6E24033

On-column IS: 6E24035

Page_____

BFB

Data File : Q:/VOA/MS4_MH/MH0606/MH060806\M414955.D Vial: 1
Acq On : 8 Jun 2006 8:38 am Operator: MD
Sample : BPF0070-TUN1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010



Spectrum Information: Scan 855

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.3	4032	PASS
75	95	30	60	36.7	9673	PASS
95	95	100	100	100.0	26336	PASS
96	95	5	9	7.6	2003	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	60.4	15902	PASS
175	174	5	9	7.3	1160	PASS
176	174	95	101	96.7	15376	PASS
177	176	5	9	7.7	1185	PASS

M414955.D LO060606.M Thu Jun 08 09:29:22 2006 MS4

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH060806\M414956.D Vial: 2
Acq On : 8 Jun 2006 9:08 am Operator: MD
Sample : BPF0070-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	102	0.01
2		Dichlorodifluoromethane	0.333	0.297	10.8	97	0.00
3		Chloromethane	0.158	0.143	9.5	102	0.00
4		Vinyl Chloride	0.174	0.159	8.6	100	0.01
5		Bromomethane	0.160	0.135	15.6	93	0.01
6		Chloroethane	0.084	0.075	10.7	90	0.02
7		Trichlorofluoromethane	0.584	0.520	11.0	98	0.00
8		Diethyl ether	0.105	0.095	9.5	99	0.01
9		Acrolein	0.021	0.020	4.8	108	0.02
10		1,1,2-Trichloro-1,2,2-trifl	0.575	0.517	10.1	97	0.01
11		Acetone	0.009	0.009	0.0	104	0.01
12		Iodomethane	0.572	0.551	3.7	104	0.00
13		Carbon Disulfide	0.622	0.557	10.5	98	0.01
14		1,1-Dichloroethene	0.247	0.223	9.7	99	0.00
15		Allyl Chloride	0.248	0.225	9.3	98	0.01
16		Methyl Acetate	0.099	0.093	6.1	107	0.00
17		Methylene Chloride	0.259	0.200	22.8	93	0.02
18		Tertiary-butyl Alcohol	0.019	0.020	-5.3	139	0.02
19		Methyl tert-Butyl Ether	0.425	0.420	1.2	108	0.00
20		Acrylonitrile	0.036	0.039	-8.3	121	0.01
21		trans-1,2-Dichloroethene	0.285	0.285	0.0	110	0.01
22		1,1-Dichloroethane	0.456	0.414	9.2	99	0.01
23		Chloroprene	0.277	0.251	9.4	98	0.01
24		Vinyl Acetate	0.692	0.634	8.4	101	0.01
25		Di-isopropyl ether	0.680	0.616	9.4	99	0.01
26		Ethyl tertiary-butyl ether	0.624	0.559	10.4	98	0.01
27		2-Butanone	0.018	0.018	0.0	110	0.01
28		cis-1,2 Dichloroethene	0.322	0.290	9.9	98	0.01
29		2,2-Dichloropropane	0.390	0.351	10.0	98	0.01
30		Methyl Acrylate	0.185	0.174	5.9	106	0.01
31		Methacrylonitrile	0.108	0.099	8.3	110	0.01
32		Bromochloromethane	0.241	0.216	10.4	97	0.01
33		Tetrahydrofuran	0.048	0.049	-2.1	112	0.02
34		Chloroform	0.574	0.513	10.6	98	0.01
35		1,1,1-Trichloroethane	0.560	0.499	10.9	98	0.01
36	S	Dibromofluoromethane(SURR)	0.758	0.662	12.7	97	0.01
37		Cyclohexane	0.313	0.285	8.9	97	0.03
38		1-Chlorobutane	0.412	0.364	11.7	99	0.03
39		1,1-Dichloropropene	0.392	0.351	10.5	99	0.01
40		Carbon Tetrachloride	0.614	0.534	13.0	96	0.01
41		Benzene	0.707	0.636	10.0	99	0.03
42	S	1,2-Dichloroethane-d4(SURR)	0.246	0.218	11.4	99	0.03

(#) = Out of Range
M414956.D LO060606.M Thu Jun 08 09:47:56 2006 MS4 Page 1

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH060806\M414956.D Vial: 2
Acq On : 8 Jun 2006 9:08 am Operator: MD
Sample : BPF0070-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		1,2-Dichloroethane	0.257	0.231	10.1	98	0.01
44		Tertiary-amyl methyl ether	0.571	0.518	9.3	99	0.01
45		Trichloroethene	0.414	0.372	10.1	98	0.01
46		Methyl Cyclohexane	0.400	0.362	9.5	98	0.01
47		1,2-Dichloropropane	0.285	0.256	10.2	98	0.01
48		Dibromomethane	0.337	0.303	10.1	98	0.03
49		1,4-Dioxane	0.003	0.003	0.0	118	0.02
50		Methyl Methacrylate	0.181	0.166	8.3	101	0.01
51		Bromodichloromethane	0.587	0.529	9.9	97	0.03
52		2-Nitropropane	0.048	0.046	4.2	111	0.01
53		2-Chloroethyl vinyl ether	0.105	0.092	12.4	98	0.02
54		4-Methyl-2-Pentanone	0.086	0.084	2.3	112	0.01
55		cis-1,3-Dichloropropene	0.436	0.399	8.5	98	0.01
56		Toluene	0.545	0.491	9.9	98	0.01
57		trans-1,3-Dichloropropene	0.363	0.337	7.2	100	0.01
58		1,1,2-Trichloroethane	0.246	0.228	7.3	102	0.01
59	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.01
60	S	Toluene-d8 (SURR)	1.083	0.966	10.8	97	0.01
61		2-Hexanone	0.174	0.173	0.6	120	0.02
62		Ethyl Methacrylate	0.380	0.360	5.3	105	0.01
63		1,3-Dichloropropane	0.462	0.420	9.1	99	0.01
64		Tetrachloroethene	0.490	0.441	10.0	98	0.01
65		Dibromochloromethane	0.797	0.736	7.7	100	0.01
66		1,2-Dibromoethane	0.607	0.552	9.1	99	0.01
67		1-Chlorohexane	0.516	0.463	10.3	98	0.00
68		Chlorobenzene	0.931	0.845	9.2	98	0.01
69		1,1,1,2-Tetrachloroethane	0.543	0.489	9.9	100	0.01
70		Ethylbenzene	1.292	1.178	8.8	98	0.01
71		Xylene P,M	0.534	0.483	9.6	98	0.01
72		Xylene O	0.508	0.462	9.1	99	0.01
73		Styrene	0.868	0.806	7.1	100	0.01
74		Bromoform	0.583	0.576	1.2	108	0.01
75		cis-1,4-Dichloro-2-butene	0.115	0.121	-5.2	111	0.01
76	S	Bromofluorobenzene (SURR)	0.733	0.684	6.7	101	0.01
77	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	101	0.01
78		Isopropylbenzene	2.587	2.343	9.4	99	0.01
79		Trans-1,4-Dichloro-2-Butene	0.155	0.162	-4.5	113	0.01
80		1,2,3-Trichloropropane	0.748	0.781	-4.4	121	0.01
81		Bromobenzene	0.910	0.846	7.0	101	0.01
82		1,1,2,2-Tetrachloroethane	0.986	0.974	0.8	114	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH060806\M414956.D Vial: 2
Acq On : 8 Jun 2006 9:08 am Operator: MD
Sample : BPF0070-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	n-Propylbenzene	3.314	3.171	4.3	101	0.01
84	2-Chlorotoluene	1.625	1.402	13.7	99	0.01
85	4-Chlorotoluene	2.186	2.033	7.0	102	0.01
86	1,3,5-Trimethylbenzene	2.128	1.951	8.3	100	0.01
87	Pentachloroethane	2.994	2.786	6.9	101	0.01
88	tert-Butylbenzene	2.994	2.786	6.9	101	0.01
89	1,2,4-Trimethylbenzene	2.152	1.982	7.9	101	0.01
90	sec-Butylbenzene	3.215	2.962	7.9	101	0.01
91	1,3 Dichlorobenzene	1.545	1.449	6.2	102	0.01
92	4-Isopropyltoluene	2.609	2.411	7.6	101	0.01
93	1,4 Dichlorobenzene	1.612	1.504	6.7	102	0.01
94	n-Butylbenzene	2.333	2.184	6.4	101	0.01
95	1,2 Dichlorobenzene	1.404	1.325	5.6	104	0.01
96	Hexachloroethane	0.993	0.939	5.4	102	0.03
97	1,2-Dibromo-3-Chloropropane	0.174	0.192	-10.3	123	0.02
98	1,2,4-Trichlorobenzene	1.170	1.095	6.4	104	0.02
99	Hexachlorobutadiene	0.834	0.777	6.8	102	0.01
100	Naphthalene	1.681	1.560	7.2	112	0.02
101	1,2,3-Trichlorobenzene	1.006	0.929	7.7	107	0.02

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH060806\M414956.D Vial: 2
Acq On : 8 Jun 2006 9:08 am Operator: MD
Sample : BPF0070-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 8 9:47 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.27	96	4378894	25.00	ug/l	0.01
59) Chlorobenzene-d5	11.58	117	3762626	25.00	ug/l	0.01
77) 1,4 Dichlorobenzene-D4	16.00	152	2166598	25.00	ug/l	0.01
System Monitoring Compounds						
36) Dibromofluoromethane(SURR)	5.18	111	2898556	21.82	ug/l	0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 87.28%			
42) 1,2-Dichloroethane-d4(SURR	5.70	65	954004	22.16	ug/l	0.03
Spiked Amount 25.000	Range 70 - 130		Recovery = 88.64%			
60) Toluene-d8 (SURR)	9.01	98	3636558	22.31	ug/l	0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 89.24%			
76) Bromofluorobenzene (SURR)	13.80	95	2572921	23.31	ug/l	0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 93.24%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.21	85	1300356	22.28	ug/l	100
3) Chloromethane	1.36	50	624907	22.52	ug/l	98
4) Vinyl Chloride	1.42	62	695903	22.89	ug/l	99
5) Bromomethane	1.64	94	590883	21.14	ug/l	100
6) Chloroethane	1.71	64	328894	23.83	ug/l	99
7) Trichlorofluoromethane	1.89	101	2278518	22.28	ug/l	100
8) Diethyl ether	2.15	59	414106	22.47	ug/l	98
9) Acrolein	2.25	56	86777	24.00	ug/l	96
10) 1,1,2-Trichloro-1,2,2-trif	2.32	101	2265598	22.50	ug/l	98
11) Acetone	2.40	58	188499	113.37	ug/l	95
12) Iodomethane	2.44	142	2411254	24.05	ug/l	99
13) Carbon Disulfide	2.50	76	2439051	22.37	ug/l	99
14) 1,1-Dichloroethene	2.31	96	976040	22.57	ug/l	96
15) Allyl Chloride	2.65	41	986217	22.75	ug/l	99
16) Methyl Acetate	2.70	43	405388	24.54	ug/l	97
17) Methylene Chloride	2.79	84	875387	21.93	ug/l	100
18) Tertiary-butyl Alcohol	2.99	59	446201	151.64	ug/l	98
19) Methyl tert-Butyl Ether	3.10	73	1836983	24.70	ug/l	99
20) Acrylonitrile	3.07	53	169240	26.50	ug/l	94
21) trans-1,2-Dichloroethene	3.07	96	1248827	25.00	ug/l	100
22) 1,1-Dichloroethane	3.57	63	1810922	22.65	ug/l	100
23) Chloroprene	3.69	53	1100308	22.67	ug/l	99
24) Vinyl Acetate	3.69	43	2777196	22.91	ug/l	100
25) Di-isopropyl ether	3.72	45	2696972	22.64	ug/l	100
26) Ethyl tertiary-butyl ether	4.26	59	2448860	22.39	ug/l	99
27) 2-Butanone	4.50	72	387639	122.58	ug/l	95
28) cis-1,2 Dichloroethene	4.41	96	1270592	22.54	ug/l	99

(#) = qualifier out of range (m) = manual integration
M414956.D LO060606.M Thu Jun 08 09:48:02 2006 MS4 Page 1

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH060806\M414956.D Vial: 2
Acq On : 8 Jun 2006 9:08 am Operator: MD
Sample : BPF0070-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 8 9:47 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) 2,2-Dichloropropane	4.39	77	1537357	22.50 ug/l	100
30) Methyl Acrylate	4.65	55	761918	23.50 ug/l	99
31) Methacrylonitrile	4.81	41	433976	23.02 ug/l	100
32) Bromochloromethane	4.78	128	945993	22.37 ug/l	99
33) Tetrahydrofuran	4.87	42	214700	25.34 ug/l	94
34) Chloroform	4.93	83	2246223	22.36 ug/l	99
35) 1,1,1-Trichloroethane	5.17	97	2186011	22.27 ug/l	99
37) Cyclohexane	5.24	56	1248871	22.79 ug/l	99
38) 1-Chlorobutane	5.38	56	1594577	22.09 ug/l	99
39) 1,1-Dichloropropene	5.44	75	1538502	22.41 ug/l	99
40) Carbon Tetrachloride	5.42	117	2336552	21.72 ug/l	100
41) Benzene	5.78	78	2784822	22.50 ug/l	100
43) 1,2-Dichloroethane	5.82	62	1013210	22.49 ug/l	98
44) Tertiary-amyl methyl ether	6.05	73	2268530	22.67 ug/l	98
45) Trichloroethene	6.88	95	1630723	22.50 ug/l	97
46) Methyl Cyclohexane	7.16	83	1585692	22.63 ug/l	99
47) 1,2-Dichloropropane	7.25	63	1122887	22.49 ug/l	100
48) Dibromomethane	7.44	93	1327130	22.48 ug/l	96
49) 1,4-Dioxane	7.55	88	235580	523.25 ug/l	98
50) Methyl Methacrylate	7.59	41	725493	22.86 ug/l	99
51) Bromodichloromethane	7.77	83	2314315	22.53 ug/l	100
52) 2-Nitropropane	8.19	43	200339	24.02 ug/l	94
53) 2-Chloroethyl vinyl ether	8.38	63	404892	25.37 ug/l	99
54) 4-Methyl-2-Pentanone	8.92	58	1841198	121.98 ug/l	97
55) cis-1,3-Dichloropropene	8.56	75	1745137	22.87 ug/l	98
56) Toluene	9.13	92	2149131	22.52 ug/l	98
57) trans-1,3-Dichloropropene	9.59	75	1474640	23.20 ug/l	99
58) 1,1,2-Trichloroethane	9.88	83	999221	23.16 ug/l	98
61) 2-Hexanone	10.42	43	3256777	133.50 ug/l	99
62) Ethyl Methacrylate	9.86	69	1353824	23.64 ug/l	96
63) 1,3-Dichloropropane	10.17	76	1580106	22.71 ug/l	100
64) Tetrachloroethene	10.08	164	1658738	22.47 ug/l	99
65) Dibromochloromethane	10.55	129	2767449	23.08 ug/l	100
66) 1,2-Dibromoethane	10.70	107	2075523	22.71 ug/l	98
67) 1-Chlorohexane	11.70	91	1741613	22.45 ug/l	98
68) Chlorobenzene	11.64	112	3177880	22.69 ug/l	99
69) 1,1,1,2-Tetrachloroethane	11.82	131	1840893	22.51 ug/l	99
70) Ethylbenzene	11.89	91	4432329	22.79 ug/l	100
71) Xylene P,M	12.13	106	3637848	45.27 ug/l	98
72) Xylene O	12.85	106	1736784	22.73 ug/l	98
73) Styrene	12.88	104	3030804	23.19 ug/l	99
74) Bromoform	13.16	173	2165722	24.68 ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH060806\M414956.D Vial: 2
Acq On : 8 Jun 2006 9:08 am Operator: MD
Sample : BPF0070-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 8 9:47 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75) cis-1,4-Dichloro-2-butene	13.75	75	454542m	26.20 ug/l	
78) Isopropylbenzene	13.56	105	5076214	22.64 ug/l	100
79) Trans-1,4-Dichloro-2-Buten	14.29	53	350304	26.02 ug/l	99
80) 1,2,3-Trichloropropane	14.20	75	1691747	26.08 ug/l	99
81) Bromobenzene	14.04	156	1833878	23.26 ug/l	100
82) 1,1,2,2-Tetrachloroethane	14.17	83	2109804	26.39 ug/l	100
83) n-Propylbenzene	14.35	91	6870582	23.92 ug/l	100
84) 2-Chlorotoluene	14.42	91	3037808	21.57 ug/l	99
85) 4-Chlorotoluene	14.66	91	4404008	23.24 ug/l	99
86) 1,3,5-Trimethylbenzene	14.71	105	4226835	22.92 ug/l	100
87) Pentachloroethane	15.30	119	6035776	23.26 ug/l	99
88) tert-Butylbenzene	15.30	119	6035776	23.26 ug/l	99
89) 1,2,4-Trimethylbenzene	15.41	105	4293217	23.02 ug/l	100
90) sec-Butylbenzene	15.73	105	6416801	23.03 ug/l	100
91) 1,3 Dichlorobenzene	15.87	146	3138860	23.44 ug/l	99
92) 4-Isopropyltoluene	16.05	119	5222973	23.10 ug/l	99
93) 1,4 Dichlorobenzene	16.05	146	3259563	23.33 ug/l	100
94) n-Butylbenzene	16.82	91	4732140	23.41 ug/l	100
95) 1,2 Dichlorobenzene	16.73	146	2869682	23.59 ug/l	100
96) Hexachloroethane	17.21	117	2035221	23.66 ug/l	98
97) 1,2-Dibromo-3-Chloropropan	18.28	75	416298	27.57 ug/l	95
98) 1,2,4-Trichlorobenzene	20.18	180	2372887	23.40 ug/l	99
99) Hexachlorobutadiene	20.59	225	1683590	23.29 ug/l	99
100) Naphthalene	20.63	128	3380628	25.69 ug/l	100
101) 1,2,3-Trichlorobenzene	21.03	180	2013807	25.24 ug/l	99

(#) = qualifier out of range (m) = manual integration
M414956.D LO060606.M Thu Jun 08 09:48:03 2006 MS4 Page 3

Semi-Volatile Organics
Sample Data

Semi-Volatile Organics Data Package

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI006
Date Sampled: 06/05/06 15:05
Percent Solids: 78
Initial Volume: 19.9
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-01
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte		Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene		ND	ug/Kg dry	644	1	06/10/06
2-Methylnaphthalene		ND	ug/Kg dry	644	1	06/10/06
Acenaphthene		**1360**	ug/Kg dry	644	1	06/10/06
Acenaphthylene		ND	ug/Kg dry	644	1	06/10/06
Anthracene		**3330**	ug/Kg dry	644	1	06/10/06
Benzo(a)anthracene		**6090**	ug/Kg dry	644	1	06/10/06
Benzo(a)pyrene		**4930**	ug/Kg dry	644	1	06/10/06
Benzo(b)fluoranthene		**5060**	ug/Kg dry	644	1	06/10/06
Benzo(g,h,i)perylene		**1700**	ug/Kg dry	644	1	06/10/06
Benzo(k)fluoranthene		**3460**	ug/Kg dry	644	1	06/10/06
Chrysene		**5720**	ug/Kg dry	644	1	06/10/06
Dibenzo(a,h)Anthracene		ND	ug/Kg dry	644	1	06/10/06
Fluoranthene	E	**14000**	ug/Kg dry	644	1	06/10/06
Fluorene		**1370**	ug/Kg dry	644	1	06/10/06
Indeno(1,2,3-cd)Pyrene		**1850**	ug/Kg dry	644	1	06/10/06
Naphthalene		ND	ug/Kg dry	644	1	06/10/06
Phenanthrene		**12400**	ug/Kg dry	644	1	06/10/06
Pyrene		**9120**	ug/Kg dry	644	1	06/10/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*68 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*86 %*		*30-130*
Surrogate: Nitrobenzene-d5	*75 %*		*30-130*
Surrogate: p-Terphenyl-d14	*86 %*		*30-130*

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JUL 24 2006

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI006
Date Sampled: 06/05/06 15:05
Percent Solids: 78
Initial Volume: 19.9
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-01RE1
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	2580	4	06/14/06
2-Methylnaphthalene	ND	ug/Kg dry	2580	4	06/14/06
Acenaphthene	ND	ug/Kg dry	2580	4	06/14/06
Acenaphthylene	ND	ug/Kg dry	2580	4	06/14/06
Anthracene	**3530**	ug/Kg dry	2580	4	06/14/06
Benzo(a)anthracene	**5860**	ug/Kg dry	2580	4	06/14/06
Benzo(a)pyrene	**4150**	ug/Kg dry	2580	4	06/14/06
Benzo(b)fluoranthene	**3400**	ug/Kg dry	2580	4	06/14/06
Benzo(g,h,i)perylene	**2830**	ug/Kg dry	2580	4	06/14/06
Benzo(k)fluoranthene	**4930**	ug/Kg dry	2580	4	06/14/06
Chrysene	**6480**	ug/Kg dry	2580	4	06/14/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	2580	4	06/14/06
Fluoranthene	**12100**	ug/Kg dry	2580	4	06/14/06
Fluorene	ND	ug/Kg dry	2580	4	06/14/06
Indeno(1,2,3-cd)Pyrene	**2690**	ug/Kg dry	2580	4	06/14/06
Naphthalene	ND	ug/Kg dry	2580	4	06/14/06
Phenanthrene	**14700**	ug/Kg dry	2580	4	06/14/06
Pyrene	**15400**	ug/Kg dry	2580	4	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*80 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*88 %*		*30-130*
Surrogate: Nitrobenzene-d5	*71 %*		*30-130*
Surrogate: p-Terphenyl-d14	*113 %*		*30-130*

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JUL 24 2006

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI005
Date Sampled: 06/05/06 15:30
Percent Solids: 53
Initial Volume: 20.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-02
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	934	1	06/09/06
2-Methylnaphthalene	ND	ug/Kg dry	934	1	06/09/06
Acenaphthene	ND	ug/Kg dry	934	1	06/09/06
Acenaphthylene	ND	ug/Kg dry	934	1	06/09/06
Anthracene	ND	ug/Kg dry	934	1	06/09/06
Benzo(a)anthracene	ND	ug/Kg dry	934	1	06/09/06
Benzo(a)pyrene	ND	ug/Kg dry	934	1	06/09/06
Benzo(b)fluoranthene	ND	ug/Kg dry	934	1	06/09/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	934	1	06/09/06
Benzo(k)fluoranthene	ND	ug/Kg dry	934	1	06/09/06
Chrysene	ND	ug/Kg dry	934	1	06/09/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	934	1	06/09/06
Fluoranthene	ND	ug/Kg dry	934	1	06/09/06
Fluorene	ND	ug/Kg dry	934	1	06/09/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	934	1	06/09/06
Naphthalene	ND	ug/Kg dry	934	1	06/09/06
Phenanthrene	ND	ug/Kg dry	934	1	06/09/06
Pyrene	ND	ug/Kg dry	934	1	06/09/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*57 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*75 %*		*30-130*
Surrogate: Nitrobenzene-d5	*64 %*		*30-130*
Surrogate: p-Terphenyl-d14	*70 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI004
Date Sampled: 06/05/06 15:50
Percent Solids: 82
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-03
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	598	1	06/09/06
2-Methylnaphthalene	ND	ug/Kg dry	598	1	06/09/06
Acenaphthene	ND	ug/Kg dry	598	1	06/09/06
Acenaphthylene	ND	ug/Kg dry	598	1	06/09/06
Anthracene	ND	ug/Kg dry	598	1	06/09/06
Benzo(a)anthracene	ND	ug/Kg dry	598	1	06/09/06
Benzo(a)pyrene	ND	ug/Kg dry	598	1	06/09/06
Benzo(b)fluoranthene	ND	ug/Kg dry	598	1	06/09/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	598	1	06/09/06
Benzo(k)fluoranthene	ND	ug/Kg dry	598	1	06/09/06
Chrysene	ND	ug/Kg dry	598	1	06/09/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	598	1	06/09/06
Fluoranthene	ND	ug/Kg dry	598	1	06/09/06
Fluorene	ND	ug/Kg dry	598	1	06/09/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	598	1	06/09/06
Naphthalene	ND	ug/Kg dry	598	1	06/09/06
Phenanthrene	ND	ug/Kg dry	598	1	06/09/06
Pyrene	ND	ug/Kg dry	598	1	06/09/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*74 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*86 %*		*30-130*
Surrogate: Nitrobenzene-d5	*80 %*		*30-130*
Surrogate: p-Terphenyl-d14	*73 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008
Date Sampled: 06/06/06 14:52
Percent Solids: 65
Initial Volume: 19.8
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-04
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	777	1	06/10/06
2-Methylnaphthalene	ND	ug/Kg dry	777	1	06/10/06
Acenaphthene	ND	ug/Kg dry	777	1	06/10/06
Acenaphthylene	ND	ug/Kg dry	777	1	06/10/06
Anthracene	ND	ug/Kg dry	777	1	06/10/06
Benzo(a)anthracene	**1480**	ug/Kg dry	777	1	06/10/06
Benzo(a)pyrene	**1690**	ug/Kg dry	777	1	06/10/06
Benzo(b)fluoranthene	**2260**	ug/Kg dry	777	1	06/10/06
Benzo(g,h,i)perylene	**953**	ug/Kg dry	777	1	06/10/06
Benzo(k)fluoranthene	**1610**	ug/Kg dry	777	1	06/10/06
Chrysene	**1770**	ug/Kg dry	777	1	06/10/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	777	1	06/10/06
Fluoranthene	**2240**	ug/Kg dry	777	1	06/10/06
Fluorene	ND	ug/Kg dry	777	1	06/10/06
Indeno(1,2,3-cd)Pyrene	**898**	ug/Kg dry	777	1	06/10/06
Naphthalene	ND	ug/Kg dry	777	1	06/10/06
Phenanthrene	**2420**	ug/Kg dry	777	1	06/10/06
Pyrene	**4360**	ug/Kg dry	777	1	06/10/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*48 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*67 %*		*30-130*
Surrogate: Nitrobenzene-d5	*64 %*		*30-130*
Surrogate: p-Terphenyl-d14	*119 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008 DUP
Date Sampled: 06/06/06 14:52
Percent Solids: 63
Initial Volume: 19.9
Final Volume: 5
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-05
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	3990	1	06/10/06
2-Methylnaphthalene	ND	ug/Kg dry	3990	1	06/10/06
Acenaphthene	ND	ug/Kg dry	3990	1	06/10/06
Acenaphthylene	ND	ug/Kg dry	3990	1	06/10/06
Anthracene	ND	ug/Kg dry	3990	1	06/10/06
Benzo(a)anthracene	ND	ug/Kg dry	3990	1	06/10/06
Benzo(a)pyrene	**4140**	ug/Kg dry	3990	1	06/10/06
Benzo(b)fluoranthene	**5810**	ug/Kg dry	3990	1	06/10/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	3990	1	06/10/06
Benzo(k)fluoranthene	ND	ug/Kg dry	3990	1	06/10/06
Chrysene	**4440**	ug/Kg dry	3990	1	06/10/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	3990	1	06/10/06
Fluoranthene	**10300**	ug/Kg dry	3990	1	06/10/06
Fluorene	ND	ug/Kg dry	3990	1	06/10/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	3990	1	06/10/06
Naphthalene	ND	ug/Kg dry	3990	1	06/10/06
Phenanthrene	**7880**	ug/Kg dry	3990	1	06/10/06
Pyrene	**8410**	ug/Kg dry	3990	1	06/10/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*72 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*110 %*		*30-130*
Surrogate: Nitrobenzene-d5	*95 %*		*30-130*
Surrogate: p-Terphenyl-d14	*135 %*	+	*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SIBK2
Date Sampled: 06/06/06 13:59
Percent Solids: 86
Initial Volume: 20.1
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-06
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	579	1	06/10/06
2-Methylnaphthalene	ND	ug/Kg dry	579	1	06/10/06
Acenaphthene	ND	ug/Kg dry	579	1	06/10/06
Acenaphthylene	ND	ug/Kg dry	579	1	06/10/06
Anthracene	ND	ug/Kg dry	579	1	06/10/06
Benzo(a)anthracene	ND	ug/Kg dry	579	1	06/10/06
Benzo(a)pyrene	ND	ug/Kg dry	579	1	06/10/06
Benzo(b)fluoranthene	**754**	ug/Kg dry	579	1	06/10/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	579	1	06/10/06
Benzo(k)fluoranthene	ND	ug/Kg dry	579	1	06/10/06
Chrysene	**606**	ug/Kg dry	579	1	06/10/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	579	1	06/10/06
Fluoranthene	**1150**	ug/Kg dry	579	1	06/10/06
Fluorene	ND	ug/Kg dry	579	1	06/10/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	579	1	06/10/06
Naphthalene	ND	ug/Kg dry	579	1	06/10/06
Phenanthrene	**595**	ug/Kg dry	579	1	06/10/06
Pyrene	**777**	ug/Kg dry	579	1	06/10/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*78 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*85 %*		*30-130*
Surrogate: Nitrobenzene-d5	*82 %*		*30-130*
Surrogate: p-Terphenyl-d14	*78 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI208
Date Sampled: 06/06/06 11:17
Percent Solids: 89
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-07
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	535	1	06/10/06
2-Methylnaphthalene	ND	ug/Kg dry	535	1	06/10/06
Acenaphthene	ND	ug/Kg dry	535	1	06/10/06
Acenaphthylene	ND	ug/Kg dry	535	1	06/10/06
Anthracene	ND	ug/Kg dry	535	1	06/10/06
Benzo(a)anthracene	ND	ug/Kg dry	535	1	06/10/06
Benzo(a)pyrene	ND	ug/Kg dry	535	1	06/10/06
Benzo(b)fluoranthene	ND	ug/Kg dry	535	1	06/10/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	535	1	06/10/06
Benzo(k)fluoranthene	ND	ug/Kg dry	535	1	06/10/06
Chrysene	ND	ug/Kg dry	535	1	06/10/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	535	1	06/10/06
Fluoranthene	ND	ug/Kg dry	535	1	06/10/06
Fluorene	ND	ug/Kg dry	535	1	06/10/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	535	1	06/10/06
Naphthalene	ND	ug/Kg dry	535	1	06/10/06
Phenanthrene	ND	ug/Kg dry	535	1	06/10/06
Pyrene	ND	ug/Kg dry	535	1	06/10/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*62 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*81 %*		*30-130*
Surrogate: Nitrobenzene-d5	*70 %*		*30-130*
Surrogate: p-Terphenyl-d14	*79 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI010
Date Sampled: 06/06/06 08:31
Percent Solids: 88
Initial Volume: 19.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-08RE1
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	11800	20	06/14/06
2-Methylnaphthalene	ND	ug/Kg dry	11800	20	06/14/06
Acenaphthene	**13600**	ug/Kg dry	11800	20	06/14/06
Acenaphthylene	ND	ug/Kg dry	11800	20	06/14/06
Anthracene	**14300**	ug/Kg dry	11800	20	06/14/06
Benzo(a)anthracene	**46300**	ug/Kg dry	11800	20	06/14/06
Benzo(a)pyrene	**41600**	ug/Kg dry	11800	20	06/14/06
Benzo(b)fluoranthene	**39400**	ug/Kg dry	11800	20	06/14/06
Benzo(g,h,i)perylene	**28300**	ug/Kg dry	11800	20	06/14/06
Benzo(k)fluoranthene	**39500**	ug/Kg dry	11800	20	06/14/06
Chrysene	**54200**	ug/Kg dry	11800	20	06/14/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	11800	20	06/14/06
Fluoranthene	**116000**	ug/Kg dry	11800	20	06/14/06
Fluorene	ND	ug/Kg dry	11800	20	06/14/06
Indeno(1,2,3-cd)Pyrene	**27900**	ug/Kg dry	11800	20	06/14/06
Naphthalene	**17500**	ug/Kg dry	11800	20	06/14/06
Phenanthrene	**122000**	ug/Kg dry	11800	20	06/14/06
Pyrene	**142000**	ug/Kg dry	11800	20	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*75 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*69 %*		*30-130*
Surrogate: Nitrobenzene-d5	*47 %*		*30-130*
Surrogate: p-Terphenyl-d14	*76 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI010
Date Sampled: 06/06/06 08:31
Percent Solids: 88
Initial Volume: 19.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-08
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte		Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene		4030	ug/Kg dry	592	1	06/10/06
2-Methylnaphthalene		5900	ug/Kg dry	592	1	06/10/06
Acenaphthene		9940	ug/Kg dry	592	1	06/10/06
Acenaphthylene		2510	ug/Kg dry	592	1	06/10/06
Anthracene		10800	ug/Kg dry	592	1	06/10/06
Benzo(a)anthracene	E	50500	ug/Kg dry	592	1	06/10/06
Benzo(a)pyrene	E	37900	ug/Kg dry	592	1	06/10/06
Benzo(b)fluoranthene	E	44900	ug/Kg dry	592	1	06/10/06
Benzo(g,h,i)perylene	E	27400	ug/Kg dry	592	1	06/10/06
Benzo(k)fluoranthene	E	17000	ug/Kg dry	592	1	06/10/06
Chrysene	E	42400	ug/Kg dry	592	1	06/10/06
Dibenzo(a,h)Anthracene		2060	ug/Kg dry	592	1	06/10/06
Fluoranthene	E	56900	ug/Kg dry	592	1	06/10/06
Fluorene		9520	ug/Kg dry	592	1	06/10/06
Indeno(1,2,3-cd)Pyrene	E	24900	ug/Kg dry	592	1	06/10/06
Naphthalene	E	12600	ug/Kg dry	592	1	06/10/06
Phenanthrene	E	71900	ug/Kg dry	592	1	06/10/06
Pyrene	E	103000	ug/Kg dry	592	1	06/10/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*63 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*71 %*		*30-130*
Surrogate: Nitrobenzene-d5	*83 %*		*30-130*
Surrogate: p-Terphenyl-d14	*172 %*	+	*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI003
Date Sampled: 06/06/06 09:16
Percent Solids: 88
Initial Volume: 19.1
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-09
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	595	1	06/09/06
2-Methylnaphthalene	ND	ug/Kg dry	595	1	06/09/06
Acenaphthene	ND	ug/Kg dry	595	1	06/09/06
Acenaphthylene	ND	ug/Kg dry	595	1	06/09/06
Anthracene	ND	ug/Kg dry	595	1	06/09/06
Benzo(a)anthracene	ND	ug/Kg dry	595	1	06/09/06
Benzo(a)pyrene	ND	ug/Kg dry	595	1	06/09/06
Benzo(b)fluoranthene	ND	ug/Kg dry	595	1	06/09/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	595	1	06/09/06
Benzo(k)fluoranthene	ND	ug/Kg dry	595	1	06/09/06
Chrysene	ND	ug/Kg dry	595	1	06/09/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	595	1	06/09/06
Fluoranthene	ND	ug/Kg dry	595	1	06/09/06
Fluorene	ND	ug/Kg dry	595	1	06/09/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	595	1	06/09/06
Naphthalene	ND	ug/Kg dry	595	1	06/09/06
Phenanthrene	ND	ug/Kg dry	595	1	06/09/06
Pyrene	ND	ug/Kg dry	595	1	06/09/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*74 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*91 %*		*30-130*
Surrogate: Nitrobenzene-d5	*83 %*		*30-130*
Surrogate: p-Terphenyl-d14	*83 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI011
Date Sampled: 06/06/06 08:11
Percent Solids: 76
Initial Volume: 19.9
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-10
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	661	1	06/10/06
2-Methylnaphthalene	ND	ug/Kg dry	661	1	06/10/06
Acenaphthene	ND	ug/Kg dry	661	1	06/10/06
Acenaphthylene	ND	ug/Kg dry	661	1	06/10/06
Anthracene	**1060**	ug/Kg dry	661	1	06/10/06
Benzo(a)anthracene	**3330**	ug/Kg dry	661	1	06/10/06
Benzo(a)pyrene	**3250**	ug/Kg dry	661	1	06/10/06
Benzo(b)fluoranthene	**3650**	ug/Kg dry	661	1	06/10/06
Benzo(g,h,i)perylene	**1400**	ug/Kg dry	661	1	06/10/06
Benzo(k)fluoranthene	**2240**	ug/Kg dry	661	1	06/10/06
Chrysene	**3230**	ug/Kg dry	661	1	06/10/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	661	1	06/10/06
Fluoranthene	**8200**	ug/Kg dry	661	1	06/10/06
Fluorene	ND	ug/Kg dry	661	1	06/10/06
Indeno(1,2,3-cd)Pyrene	**1430**	ug/Kg dry	661	1	06/10/06
Naphthalene	ND	ug/Kg dry	661	1	06/10/06
Phenanthrene	**4850**	ug/Kg dry	661	1	06/10/06
Pyrene	**6260**	ug/Kg dry	661	1	06/10/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*68 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*82 %*		*30-130*
Surrogate: Nitrobenzene-d5	*75 %*		*30-130*
Surrogate: p-Terphenyl-d14	*86 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI210
Date Sampled: 06/06/06 13:31
Percent Solids: 93
Initial Volume: 19.8
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-11
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	543	1	06/10/06
2-Methylnaphthalene	ND	ug/Kg dry	543	1	06/10/06
Acenaphthene	ND	ug/Kg dry	543	1	06/10/06
Acenaphthylene	ND	ug/Kg dry	543	1	06/10/06
Anthracene	ND	ug/Kg dry	543	1	06/10/06
Benzo(a)anthracene	**845**	ug/Kg dry	543	1	06/10/06
Benzo(a)pyrene	**915**	ug/Kg dry	543	1	06/10/06
Benzo(b)fluoranthene	**1050**	ug/Kg dry	543	1	06/10/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	543	1	06/10/06
Benzo(k)fluoranthene	**710**	ug/Kg dry	543	1	06/10/06
Chrysene	**922**	ug/Kg dry	543	1	06/10/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	543	1	06/10/06
Fluoranthene	**1800**	ug/Kg dry	543	1	06/10/06
Fluorene	ND	ug/Kg dry	543	1	06/10/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	543	1	06/10/06
Naphthalene	ND	ug/Kg dry	543	1	06/10/06
Phenanthrene	**1020**	ug/Kg dry	543	1	06/10/06
Pyrene	**1280**	ug/Kg dry	543	1	06/10/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*76 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*84 %*		*30-130*
Surrogate: Nitrobenzene-d5	*79 %*		*30-130*
Surrogate: p-Terphenyl-d14	*72 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI206
Date Sampled: 06/06/06 10:35
Percent Solids: 81
Initial Volume: 20.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-12
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	611	1	06/10/06
2-Methylnaphthalene	ND	ug/Kg dry	611	1	06/10/06
Acenaphthene	ND	ug/Kg dry	611	1	06/10/06
Acenaphthylene	ND	ug/Kg dry	611	1	06/10/06
Anthracene	ND	ug/Kg dry	611	1	06/10/06
Benzo(a)anthracene	ND	ug/Kg dry	611	1	06/10/06
Benzo(a)pyrene	ND	ug/Kg dry	611	1	06/10/06
Benzo(b)fluoranthene	ND	ug/Kg dry	611	1	06/10/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	611	1	06/10/06
Benzo(k)fluoranthene	ND	ug/Kg dry	611	1	06/10/06
Chrysene	ND	ug/Kg dry	611	1	06/10/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	611	1	06/10/06
Fluoranthene	**630**	ug/Kg dry	611	1	06/10/06
Fluorene	ND	ug/Kg dry	611	1	06/10/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	611	1	06/10/06
Naphthalene	ND	ug/Kg dry	611	1	06/10/06
Phenanthrene	ND	ug/Kg dry	611	1	06/10/06
Pyrene	ND	ug/Kg dry	611	1	06/10/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*72 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*91 %*		*30-130*
Surrogate: Nitrobenzene-d5	*80 %*		*30-130*
Surrogate: p-Terphenyl-d14	*80 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI209
Date Sampled: 06/06/06 13:45
Percent Solids: 92
Initial Volume: 19.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-14
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	566	1	06/09/06
2-Methylnaphthalene	ND	ug/Kg dry	566	1	06/09/06
Acenaphthene	ND	ug/Kg dry	566	1	06/09/06
Acenaphthylene	ND	ug/Kg dry	566	1	06/09/06
Anthracene	ND	ug/Kg dry	566	1	06/09/06
Benzo(a)anthracene	ND	ug/Kg dry	566	1	06/09/06
Benzo(a)pyrene	ND	ug/Kg dry	566	1	06/09/06
Benzo(b)fluoranthene	ND	ug/Kg dry	566	1	06/09/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	566	1	06/09/06
Benzo(k)fluoranthene	ND	ug/Kg dry	566	1	06/09/06
Chrysene	ND	ug/Kg dry	566	1	06/09/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	566	1	06/09/06
Fluoranthene	ND	ug/Kg dry	566	1	06/09/06
Fluorene	ND	ug/Kg dry	566	1	06/09/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	566	1	06/09/06
Naphthalene	ND	ug/Kg dry	566	1	06/09/06
Phenanthrene	ND	ug/Kg dry	566	1	06/09/06
Pyrene	ND	ug/Kg dry	566	1	06/09/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*75 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*89 %*		*30-130*
Surrogate: Nitrobenzene-d5	*83 %*		*30-130*
Surrogate: p-Terphenyl-d14	*77 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI207
Date Sampled: 06/06/06 10:14
Percent Solids: 86
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-15
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	554	1	06/09/06
2-Methylnaphthalene	ND	ug/Kg dry	554	1	06/09/06
Acenaphthene	ND	ug/Kg dry	554	1	06/09/06
Acenaphthylene	ND	ug/Kg dry	554	1	06/09/06
Anthracene	ND	ug/Kg dry	554	1	06/09/06
Benzo(a)anthracene	ND	ug/Kg dry	554	1	06/09/06
Benzo(a)pyrene	ND	ug/Kg dry	554	1	06/09/06
Benzo(b)fluoranthene	ND	ug/Kg dry	554	1	06/09/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	554	1	06/09/06
Benzo(k)fluoranthene	ND	ug/Kg dry	554	1	06/09/06
Chrysene	ND	ug/Kg dry	554	1	06/09/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	554	1	06/09/06
Fluoranthene	ND	ug/Kg dry	554	1	06/09/06
Fluorene	ND	ug/Kg dry	554	1	06/09/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	554	1	06/09/06
Naphthalene	ND	ug/Kg dry	554	1	06/09/06
Phenanthrene	ND	ug/Kg dry	554	1	06/09/06
Pyrene	ND	ug/Kg dry	554	1	06/09/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*77 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*92 %*		*30-130*
Surrogate: Nitrobenzene-d5	*84 %*		*30-130*
Surrogate: p-Terphenyl-d14	*88 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI001
Date Sampled: 06/06/06 11:01
Percent Solids: 82
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-16
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	581	1	06/10/06
2-Methylnaphthalene	ND	ug/Kg dry	581	1	06/10/06
Acenaphthene	ND	ug/Kg dry	581	1	06/10/06
Acenaphthylene	ND	ug/Kg dry	581	1	06/10/06
Anthracene	ND	ug/Kg dry	581	1	06/10/06
Benzo(a)anthracene	**623**	ug/Kg dry	581	1	06/10/06
Benzo(a)pyrene	**694**	ug/Kg dry	581	1	06/10/06
Benzo(b)fluoranthene	**1070**	ug/Kg dry	581	1	06/10/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	581	1	06/10/06
Benzo(k)fluoranthene	ND	ug/Kg dry	581	1	06/10/06
Chrysene	**749**	ug/Kg dry	581	1	06/10/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	581	1	06/10/06
Fluoranthene	**1740**	ug/Kg dry	581	1	06/10/06
Fluorene	ND	ug/Kg dry	581	1	06/10/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	581	1	06/10/06
Naphthalene	ND	ug/Kg dry	581	1	06/10/06
Phenanthrene	**906**	ug/Kg dry	581	1	06/10/06
Pyrene	**1080**	ug/Kg dry	581	1	06/10/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*78 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*94 %*		*30-130*
Surrogate: Nitrobenzene-d5	*85 %*		*30-130*
Surrogate: p-Terphenyl-d14	*88 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI007
Date Sampled: 06/06/06 16:23
Percent Solids: 58
Initial Volume: 19.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-17
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	898	1	06/10/06
2-Methylnaphthalene	ND	ug/Kg dry	898	1	06/10/06
Acenaphthene	ND	ug/Kg dry	898	1	06/10/06
Acenaphthylene	ND	ug/Kg dry	898	1	06/10/06
Anthracene	ND	ug/Kg dry	898	1	06/10/06
Benzo(a)anthracene	**2120**	ug/Kg dry	898	1	06/10/06
Benzo(a)pyrene	**2100**	ug/Kg dry	898	1	06/10/06
Benzo(b)fluoranthene	**2760**	ug/Kg dry	898	1	06/10/06
Benzo(g,h,i)perylene	**1480**	ug/Kg dry	898	1	06/10/06
Benzo(k)fluoranthene	**1570**	ug/Kg dry	898	1	06/10/06
Chrysene	**2310**	ug/Kg dry	898	1	06/10/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	898	1	06/10/06
Fluoranthene	**4090**	ug/Kg dry	898	1	06/10/06
Fluorene	ND	ug/Kg dry	898	1	06/10/06
Indeno(1,2,3-cd)Pyrene	**1420**	ug/Kg dry	898	1	06/10/06
Naphthalene	ND	ug/Kg dry	898	1	06/10/06
Phenanthrene	**4210**	ug/Kg dry	898	1	06/10/06
Pyrene	**6340**	ug/Kg dry	898	1	06/10/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*62 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*75 %*		*30-130*
Surrogate: Nitrobenzene-d5	*76 %*		*30-130*
Surrogate: p-Terphenyl-d14	*118 %*		*30-130*

Semi-Volatile Organics Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch BF60801 - 3541										
Matrix Spike Dup Source: 0606078-05										
Arocior 1016	712	78.9	ug/Kg dry	790	ND	90	40-140	16	50	
Arocior 1260	2140	394	ug/Kg dry	790	2020	15	40-140	25	50	+
Surrogate: Decachlorobiphenyl	*20.8*		ug/Kg dry	*39.5*		*53*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*26.1*		ug/Kg dry	*39.5*		*66*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*21.3*		ug/Kg dry	*39.5*		*54*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*20.7*		ug/Kg dry	*39.5*		*52*	*30-150*			
8270C Polynuclear Aromatic Hydrocarbons										
Batch BF60724 - 3541										
Blank										
1-Methylnaphthalene	ND	500	ug/Kg wet							
2-Methylnaphthalene	ND	500	ug/Kg wet							
Acenaphthene	ND	500	ug/Kg wet							
Acenaphthylene	ND	500	ug/Kg wet							
Anthracene	ND	500	ug/Kg wet							
Benzo(a)anthracene	ND	500	ug/Kg wet							
Benzo(a)pyrene	ND	500	ug/Kg wet							
Benzo(b)fluoranthene	ND	500	ug/Kg wet							
Benzo(g,h,i)perylene	ND	500	ug/Kg wet							
Benzo(k)fluoranthene	ND	500	ug/Kg wet							
Chrysene	ND	500	ug/Kg wet							
Dibenzo(a,h)Anthracene	ND	500	ug/Kg wet							
Fluoranthene	ND	500	ug/Kg wet							
Fluorene	ND	500	ug/Kg wet							
Indeno(1,2,3-cd)Pyrene	ND	500	ug/Kg wet							
Naphthalene	ND	500	ug/Kg wet							
Phenanthrene	ND	500	ug/Kg wet							
Pyrene	ND	500	ug/Kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*3890*		ug/Kg wet	*5000*		*78*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*4250*		ug/Kg wet	*5000*		*85*	*30-130*			
Surrogate: Nitrobenzene-d5	*4140*		ug/Kg wet	*5000*		*83*	*30-130*			
Surrogate: p-Terphenyl-d14	*3700*		ug/Kg wet	*5000*		*74*	*30-130*			
LCS										
2-Methylnaphthalene	3760	500	ug/Kg wet	5000		75	40-140			
Acenaphthene	3930	500	ug/Kg wet	5000		79	40-140			
Acenaphthylene	3900	500	ug/Kg wet	5000		78	40-140			
Anthracene	4350	500	ug/Kg wet	5000		87	40-140			
Benzo(a)anthracene	4530	500	ug/Kg wet	5000		91	40-140			
Benzo(a)pyrene	4470	500	ug/Kg wet	5000		89	40-140			
Benzo(b)fluoranthene	4810	500	ug/Kg wet	5000		96	40-140			
Benzo(g,h,i)perylene	3650	500	ug/Kg wet	5000		73	40-140			
Benzo(k)fluoranthene	3210	500	ug/Kg wet	5000		64	40-140			
Chrysene	4370	500	ug/Kg wet	5000		87	40-140			
Dibenzo(a,h)Anthracene	4230	500	ug/Kg wet	5000		85	40-140			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BF60724 - 3541										
Fluoranthene	4550	500	ug/Kg wet	5000		91	40-140			
Fluorene	3760	500	ug/Kg wet	5000		75	40-140			
Indeno(1,2,3-cd)Pyrene	4020	500	ug/Kg wet	5000		80	40-140			
Naphthalene	3780	500	ug/Kg wet	5000		76	40-140			
Phenanthrene	4200	500	ug/Kg wet	5000		84	40-140			
Pyrene	3660	500	ug/Kg wet	5000		73	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*3800*		ug/Kg wet	*5000*		*76*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*4470*		ug/Kg wet	*5000*		*89*	*30-130*			
Surrogate: Nitrobenzene-d5	*4180*		ug/Kg wet	*5000*		*84*	*30-130*			
Surrogate: p-Terphenyl-d14	*4030*		ug/Kg wet	*5000*		*81*	*30-130*			
LCS Dup										
2-Methylnaphthalene	3840	500	ug/Kg wet	5000		77	40-140	3	30	
Acenaphthene	4100	500	ug/Kg wet	5000		82	40-140	4	30	
Acenaphthylene	4130	500	ug/Kg wet	5000		83	40-140	6	30	
Anthracene	4490	500	ug/Kg wet	5000		90	40-140	3	30	
Benzo(a)anthracene	4570	500	ug/Kg wet	5000		91	40-140	0	30	
Benzo(a)pyrene	4600	500	ug/Kg wet	5000		92	40-140	3	30	
Benzo(b)fluoranthene	4870	500	ug/Kg wet	5000		97	40-140	1	30	
Benzo(g,h,i)perylene	3890	500	ug/Kg wet	5000		78	40-140	7	30	
Benzo(k)fluoranthene	3450	500	ug/Kg wet	5000		69	40-140	8	30	
Chrysene	4410	500	ug/Kg wet	5000		88	40-140	1	30	
Dibenzo(a,h)Anthracene	4510	500	ug/Kg wet	5000		90	40-140	6	30	
Fluoranthene	4620	500	ug/Kg wet	5000		92	40-140	1	30	
Fluorene	4050	500	ug/Kg wet	5000		81	40-140	8	30	
Indeno(1,2,3-cd)Pyrene	4270	500	ug/Kg wet	5000		85	40-140	6	30	
Naphthalene	3850	500	ug/Kg wet	5000		77	40-140	1	30	
Phenanthrene	4360	500	ug/Kg wet	5000		87	40-140	4	30	
Pyrene	3820	500	ug/Kg wet	5000		76	40-140	4	30	
Surrogate: 1,2-Dichlorobenzene-d4	*3930*		ug/Kg wet	*5000*		*79*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*4680*		ug/Kg wet	*5000*		*94*	*30-130*			
Surrogate: Nitrobenzene-d5	*4290*		ug/Kg wet	*5000*		*86*	*30-130*			
Surrogate: p-Terphenyl-d14	*4220*		ug/Kg wet	*5000*		*84*	*30-130*			
Matrix Spike **Source: 0606078-05**										
2-Methylnaphthalene	8430	3830	ug/Kg dry	7670	ND	110	40-140			
Acenaphthene	8930	3830	ug/Kg dry	7670	ND	116	40-140			
Acenaphthylene	8520	3830	ug/Kg dry	7670	ND	111	40-140			
Anthracene	10000	3830	ug/Kg dry	7670	1820	107	40-140			
Benzo(a)anthracene	12300	3830	ug/Kg dry	7670	3880	110	40-140			
Benzo(a)pyrene	12700	3830	ug/Kg dry	7670	4140	112	40-140			
Benzo(b)fluoranthene	15600	3830	ug/Kg dry	7670	5810	128	40-140			
Benzo(g,h,i)perylene	7480	3830	ug/Kg dry	7670	1960	72	40-140			
Benzo(k)fluoranthene	11600	3830	ug/Kg dry	7670	3730	103	40-140			
Chrysene	12300	3830	ug/Kg dry	7670	4440	102	40-140			
Dibenzo(a,h)Anthracene	7650	3830	ug/Kg dry	7670	ND	100	40-140			
Fluoranthene	18600	3830	ug/Kg dry	7670	10300	108	40-140			

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BF60724 - 3541										
Fluorene	9310	3830	ug/Kg dry	7670	ND	121	40-140			
Indeno(1,2,3-cd)Pyrene	8090	3830	ug/Kg dry	7670	2010	79	40-140			
Naphthalene	8540	3830	ug/Kg dry	7670	ND	111	40-140			
Phenanthrene	15000	3830	ug/Kg dry	7670	7880	93	40-140			
Pyrene	17300	3830	ug/Kg dry	7670	8410	116	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*6150*		ug/Kg dry	*7670*		*80*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*9370*		ug/Kg dry	*7670*		*122*	*30-130*			
Surrogate: Nitrobenzene-d5	*7830*		ug/Kg dry	*7670*		*102*	*30-130*			
Surrogate: p-Terphenyl-d14	*11600*		ug/Kg dry	*7670*		*151*	*30-130*			+
Matrix Spike Dup Source: 0606078-05										
2-Methylnaphthalene	7870	3890	ug/Kg dry	7780	ND	101	40-140	9	30	
Acenaphthene	8950	3890	ug/Kg dry	7780	ND	115	40-140	0.9	30	
Acenaphthylene	8250	3890	ug/Kg dry	7780	ND	106	40-140	5	30	
Anthracene	10100	3890	ug/Kg dry	7780	1820	106	40-140	0.9	30	
Benzo(a)anthracene	11900	3890	ug/Kg dry	7780	3880	103	40-140	7	30	
Benzo(a)pyrene	11800	3890	ug/Kg dry	7780	4140	98	40-140	13	30	
Benzo(b)fluoranthene	15100	3890	ug/Kg dry	7780	5810	119	40-140	7	30	
Benzo(g,h,i)perylene	7070	3890	ug/Kg dry	7780	1960	66	40-140	9	30	
Benzo(k)fluoranthene	10900	3890	ug/Kg dry	7780	3730	92	40-140	11	30	
Chrysene	11800	3890	ug/Kg dry	7780	4440	95	40-140	7	30	
Dibenzo(a,h)Anthracene	7220	3890	ug/Kg dry	7780	ND	93	40-140	7	30	
Fluoranthene	17200	3890	ug/Kg dry	7780	10300	89	40-140	19	30	
Fluorene	9140	3890	ug/Kg dry	7780	ND	117	40-140	3	30	
Indeno(1,2,3-cd)Pyrene	7740	3890	ug/Kg dry	7780	2010	74	40-140	7	30	
Naphthalene	7610	3890	ug/Kg dry	7780	ND	98	40-140	12	30	
Phenanthrene	14600	3890	ug/Kg dry	7780	7880	86	40-140	8	30	
Pyrene	17600	3890	ug/Kg dry	7780	8410	118	40-140	2	30	
Surrogate: 1,2-Dichlorobenzene-d4	*5940*		ug/Kg dry	*7780*		*76*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*8920*		ug/Kg dry	*7780*		*115*	*30-130*			
Surrogate: Nitrobenzene-d5	*7720*		ug/Kg dry	*7780*		*99*	*30-130*			
Surrogate: p-Terphenyl-d14	*12200*		ug/Kg dry	*7780*		*157*	*30-130*			+
8270C(SIM) Polynuclear Aromatic Hydrocarbons										
Batch BF61518 - 3541										
Blank										
1-Methylnaphthalene	ND	25.0	ug/Kg wet							
2-Methylnaphthalene	ND	25.0	ug/Kg wet							
Acenaphthene	ND	25.0	ug/Kg wet							
Acenaphthylene	ND	25.0	ug/Kg wet							
Anthracene	ND	25.0	ug/Kg wet							
Benzo(a)anthracene	ND	25.0	ug/Kg wet							
Benzo(a)pyrene	ND	25.0	ug/Kg wet							
Benzo(b)fluoranthene	ND	25.0	ug/Kg wet							
Benzo(g,h,i)perylene	ND	25.0	ug/Kg wet							
Benzo(k)fluoranthene	ND	25.0	ug/Kg wet							

Semi-Volatile Organics Calibration Data

ANALYSIS SEQUENCE

BPF0039

Instrument: SVOAMS2

Calibnration ID: ~~UNASSIGNED~~ SV2K6

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0039-TUN1	QC		1		6E31075		
BPF0039-CAL1	QC		2		6E31076	6E26058	
BPF0039-CAL2	QC		3		6E31077	6E26058	
BPF0039-CAL3	QC		4		6E31078	6E26058	
BPF0039-CAL4	QC		5		6E31079	6E26058	
BPF0039-CAL5	QC		6		6E31080	6E26058	
BPF0039-CAL6	QC		7		6E31081	6E26058	
BPF0039-CAL7	QC		8		6E31082	6E26058	
BPF0039-CAL8	QC		9		6E31083	6E26058	
BPF0039-SCV1	QC		10		6E31084	6E26058	

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/3/06	15	SV2 12956	BE63026-BLK3	PAH2DW	✓	JCS
6/5/06	16	SV2 57	D605455-04	PAH2DW	✓	JCS
6/5/06	17	SV2 58	D605455-05	PAH2DW	✓ 2R 10X	JCS
6/5/06	1	SV2 59	BPF0027-TUN	DFTPP	✓ 6E31075	JCS
6/5/06	2	SV2 60	BPF0027-CCV1	PAH2DW	✓ 6E31107	JCS
6/5/06	3	SV2 61	D605455-05	PAH2DW	10X ✓	JCS
6/6/06	1	SV2 62	BPF0039-TUN	DFTPP	6E31075	VJC/EEB
	2	SV2 63	BPF0039-CCV1 ✓	SV2KG	6E31076	VJC/EEB
	3	SV2 64	-Cal2 ✓		77	
	4	SV2 65	-Cal3 ✓		78	
	5	SV2 66	-Cal4 ✓		79	
	6	SV2 67	-Cal5 ✓		80	
	7	SV2 68	-Cal6 ✓		81	
	8	SV2 69	-Cal7 ✓		82	
	9	SV2 70	-Cal8 ✓		83	
6/5/06	10	SV2 71	BPF0039-SCV1	SV2KG	6E31084	VJC/EEB
6/6/06	1	SV2 72	BPF0044-TUN	DFTPP	6E31075	VJC
	2	SV2 73	BPF0044-CCV1	SV2KG	6F06044	
	3	SV2 74	BF60226-BLK1 ✓			
	4	SV2 75	BF60226-LCS1 ✓			
	5	SV2 76	BF60226-LCSD1 ✓			
	6	SV2 77	0606030-01 ✓			
	7	SV2 78	0605467-01 ✓			
	8	SV2 79	0605467-02 ✓			
	9	SV2 80	0605454-01 ~~03~~ VJC 6/6/06 ✓			
	10	SV2 81	0605467-03 ✓			
	11	SV2 82	0605467-04 ✓			
	12	SV2 83	0605467-05 ✓			
6/6/06	13	SV2 84	BF60510-BLK1 ✓	SV2KG		VJC

Control Number 60.0019-0601A

Page_____

Response Factor Report GC/MS 2

Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)
Last Update : Wed Jul 19 20:51:41 2006
Response via : Initial Calibration

Calibration Files
5 =SV212963.D 10 =SV212964.D 50 =SV212966.D
80 =SV212967.D 120 =SV212968.D 160 =SV212969.D

		Compound	5	10	50	80	120	160	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)		N-Nitrosodimethylam	0.314	0.337	0.368	0.366	0.362	0.379	0.358	6.26
3)		Pyridine	0.504	0.601	0.624	0.648	0.633	0.685	0.626	9.26
4)	S	2-Fluorophenol (SUR	1.334	1.300	1.299	1.290	1.285	1.300	1.301	1.25
5)		bis(2-Chloroethyl)e	1.155	1.165	1.124	1.116	1.105	1.094	1.117	3.21
6)	S	Phenol-d5 (SURR)	1.693	1.718	1.722	1.696	1.633	1.586	1.669	3.28
7)		2-Chlorophenol	1.438	1.409	1.412	1.405	1.357	1.334	1.386	2.99
8)	C	Phenol	2.186	2.195	2.069	2.117	2.037	1.991	2.082	4.23#
9)		Aniline	1.699	1.856	1.946	2.041	1.983	1.642	1.867	7.49
10)	S	2-Chlorophenol-d4(S	1.449	1.433	1.413	1.412	1.362	1.344	1.395	2.88
11)		1,3-Dichlorobenzene	1.387	1.372	1.372	1.425	1.302	1.293	1.344	4.48
12)	C	1,4-Dichlorobenzene	1.852	1.769	1.722	1.639	1.666	1.652	1.713	4.22#
13)	S	1,2 Dichlorobenzene	0.970	0.925	0.897	0.883	0.841	0.816	0.876	6.77
14)		1,2-Dichlorobenzene	1.516	1.488	1.443	1.435	1.363	1.328	1.411	5.78
15)		Benzyl Alcohol	1.189	1.239	1.230	1.234	1.197	1.154	1.208	2.34
16)		bis(2-chloroisoprop	2.805	2.762	2.654	2.586	2.480	2.403	2.593	5.79
17)		2-Methylphenol	1.250	1.279	1.266	1.263	1.211	1.176	1.238	2.85
18)		Acetophenone	1.800	1.807	1.739	1.703	1.552	1.474	1.658	8.92
19)	P	n-Nitroso-di-n-prop	1.132	1.137	1.159	1.128	1.100	1.035	1.112	3.43
20)		Hexachloroethane	0.682	0.652	0.631	0.631	0.610	0.606	0.629	4.32
21)		3+4-Methylphenol	1.336	1.345	1.328	1.308	1.199	1.135	1.260	7.85
22)		Naphthalene-d8	----------ISTD----------							
23)	S	Nitrobenzene-d5 (SU	0.395	0.389	0.387	0.383	0.383	0.376	0.385	2.00
24)		Nitrobenzene	0.413	0.408	0.399	0.397	0.392	0.387	0.397	3.15
25)		Isophorone	0.707	0.725	0.734	0.726	0.717	0.704	0.720	1.57
26)	C	2-Nitrophenol	0.192	0.198	0.213	0.212	0.212	0.210	0.206	3.82#
27)		Benzoic Acid	0.190	0.229	0.275	0.302	0.309	0.307	0.272	16.61
28)		2,4-Dimethylphenol	0.324	0.325	0.329	0.330	0.323	0.310	0.322	2.59
29)		bis(2-Chloroethoxy)	0.458	0.460	0.462	0.461	0.452	0.439	0.453	2.40
30)	C	2,4-Dichlorophenol	0.266	0.269	0.276	0.282	0.277	0.271	0.272	2.25#
31)		1,2,4-Trichlorobenz	0.305	0.297	0.293	0.287	0.281	0.275	0.287	4.30
32)		Naphthalene	1.076	1.046	1.017	0.998	0.944	0.921	0.986	7.04
33)		4-Chloroaniline	0.398	0.428	0.459	0.468	0.435	0.415	0.432	6.66
34)	C	Hexachlorobutadiene	0.145	0.140	0.141	0.137	0.133	0.132	0.136	5.44#
35)	C	4-Chloro-3-methylph	0.281	0.296	0.291	0.302	0.299	0.291	0.293	2.20#
36)		2-Methylnaphthalene	0.650	0.673	0.639	0.644	0.604	0.585	0.626	6.13
37)		1-Methylnaphthalene	0.665	0.670	0.639	0.643	0.583	0.575	0.621	7.80
38)		Acenaphthene-d10	----------ISTD----------							
39)	P	Hexachlorocyclopent	0.264	0.262	0.280	0.279	0.281	0.287	0.278	3.40
40)	C	2,4,6-Trichlorophen	0.344	0.355	0.374	0.369	0.354	0.353	0.360	2.81#
41)		2,4,5-Trichlorophen	0.355	0.369	0.392	0.393	0.387	0.392	0.383	3.60
42)	S	2-Fluorobiphenyl (S	1.267	1.277	1.312	1.244	1.176	1.136	1.229	5.59
43)		Biphenyl	1.509	1.490	1.472	1.378	1.258	1.172	1.358	12.38
44)		2-Chloronaphthalene	1.444	1.375	1.344	1.295	1.196	1.100	1.274	11.51
45)		Dimethylphthalate	1.318	1.346	1.345	1.317	1.252	1.222	1.300	3.90
46)		Acenaphthylene	1.892	1.966	1.946	1.898	1.782	1.698	1.845	7.75
47)		2,6-Dinitrotoluene	0.351	0.354	0.348	0.344	0.321	0.312	0.333	7.38
48)		2-Nitroaniline	0.514	0.535	0.439	0.439	0.438	0.448	0.474	9.03
49)	C	Acenaphthene	1.267	1.255	1.233	1.218	1.152	1.127	1.199	5.26#
50)	P	2,4-Dinitrophenol	0.088	0.131	0.182	0.198	0.202	0.216	0.176	26.29

(#) = Out of Range ### Number of calibration levels exceeded format ###
SV2KG.M Wed Jul 19 20:51:46 2006 Page 1

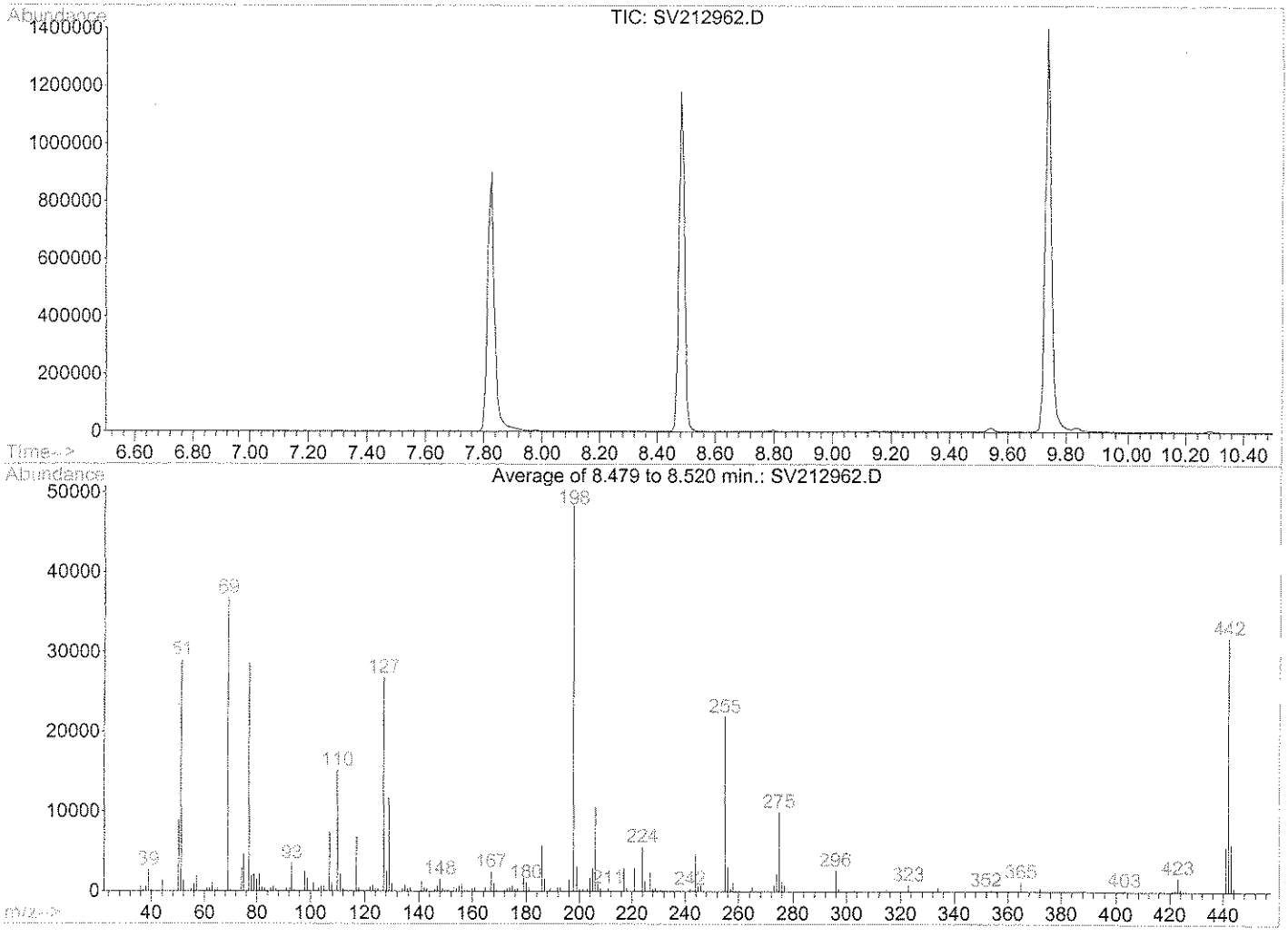
Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)
Last Update : Wed Jul 19 20:51:41 2006
Response via : Initial Calibration

Calibration Files
5 =SV212963.D 10 =SV212964.D 50 =SV212966.D
80 =SV212967.D 120 =SV212968.D 160 =SV212969.D

		Compound	5	10	50	80	120	160	Avg	%RSD
51)		Dibenzofuran	1.660	1.683	1.619	1.616	1.539	1.542	1.601	4.22
52)	P	4-Nitrophenol		0.129	0.146	0.157	0.155	0.166	0.152	9.21
53)		3-Nitroaniline	0.362	0.382	0.397	0.417	0.402	0.415	0.398	5.08
54)		2,4-Dinitrotoluene	0.412	0.427	0.428	0.440	0.428	0.441	0.431	2.27
55)		Fluorene	1.325	1.342	1.266	1.227	1.094	1.042	1.230	9.62
56)		2,3,4,6-Tetrachloro	0.260	0.279	0.289	0.297	0.285	0.287	0.283	3.83
57)		Diethylphthalate	1.312	1.377	1.351	1.375	1.315	1.307	1.337	2.73
58)		4-Chloro-phenyl-phe	0.592	0.579	0.550	0.530	0.471	0.435	0.532	10.96
59)		Phenanthrene-d10	----------ISTD----------							
60)		4-Nitroaniline	0.248	0.268	0.284	0.286	0.285	0.288	0.278	5.30
61)		4,6-Dinitro-2-methy	0.095	0.135	0.173	0.179	0.179	0.182	0.161	19.32
62)	C	n-Nitrosodiphenylam	0.746	0.776	0.823	0.788	0.750	0.715	0.764	5.59#
63)		Azobenzene	1.189	1.162	1.193	1.157	1.219	1.173	1.177	1.83
64)	S	2,4,6-Tribromopheno	0.102	0.107	0.117	0.117	0.114	0.110	0.111	4.79
65)		4-Bromophenyl-pheny	0.229	0.216	0.226	0.219	0.211	0.202	0.215	4.86
66)		Hexachlorobenzene	0.250	0.248	0.243	0.236	0.224	0.214	0.233	7.23
67)	C	Pentachlorophenol	0.094	0.112	0.134	0.135	0.136	0.137	0.127	12.51#
68)		Phenanthrene	1.269	1.239	1.219	1.194	1.145	1.123	1.189	5.39
69)		Anthracene	1.208	1.212	1.234	1.215	1.173	1.132	1.183	4.92
70)		Carbazole	1.057	1.125	1.147	1.133	1.105	1.114	1.113	2.88
71)		Di-n-butylphthalate	1.349	1.572	1.654	1.644	1.569	1.565	1.568	6.31
72)	C	Fluoranthene	0.962	1.015	1.043	1.063	1.039	1.067	1.034	3.24#
73)		Benzidine		0.110	0.312	0.399	0.410	0.467	0.346	36.84
74)		Chrysene-d12	----------ISTD----------							
75)		Pyrene	1.841	1.872	1.863	1.754	1.699	1.635	1.768	4.83
76)	S	Terphenyl-d14 (SURR	1.026	1.104	1.125	1.059	1.031	0.995	1.051	4.22
77)		Butylbenzylphthalat	0.784	0.938	1.037	1.010	0.992	0.985	0.966	8.27
78)		3,3'-Dichlorobenzid	0.263	0.331	0.446	0.465	0.466	0.468	0.416	18.68
79)		Benzo(a)anthracene	1.186	1.229	1.313	1.324	1.300	1.321	1.287	4.17
80)		Chrysene	1.270	1.265	1.267	1.263	1.249	1.253	1.266	0.96
81)		bis(2-Ethylhexyl)ph	0.947	1.100	1.359	1.354	1.317	1.311	1.239	11.98
82)		Perylene-d12	----------ISTD----------							
83)	C	Di-n-octylphthalate	1.050	1.371	2.182	2.321	2.323	2.453	1.978	27.18#
84)		Benzo(b)fluoranthen	0.880	0.949	1.310	1.336	1.348		1.140	18.82
85)		Benzo(k)fluoranthen	1.517	1.575	1.426	1.355	1.272		1.457	8.87
86)	C	Benzo(a)pyrene	1.094	0.919	1.122	1.152	1.188	1.186	1.126	7.98#
87)		Indeno(1,2,3-cd)pyr	0.816	0.843	1.093	1.095	1.089	0.986	1.002	11.28
88)		Dibenzo(a,h)anthrac	0.601	0.669	0.897	0.912	0.920	0.818	0.816	14.51
89)		Benzo(g,h,i)perylen	0.831	0.796	0.911	0.906	0.906	0.794	0.864	6.53

(#) = Out of Range ### Number of calibration levels exceeded format ###
SV2KG.M Wed Jul 19 20:51:47 2006 Page 2

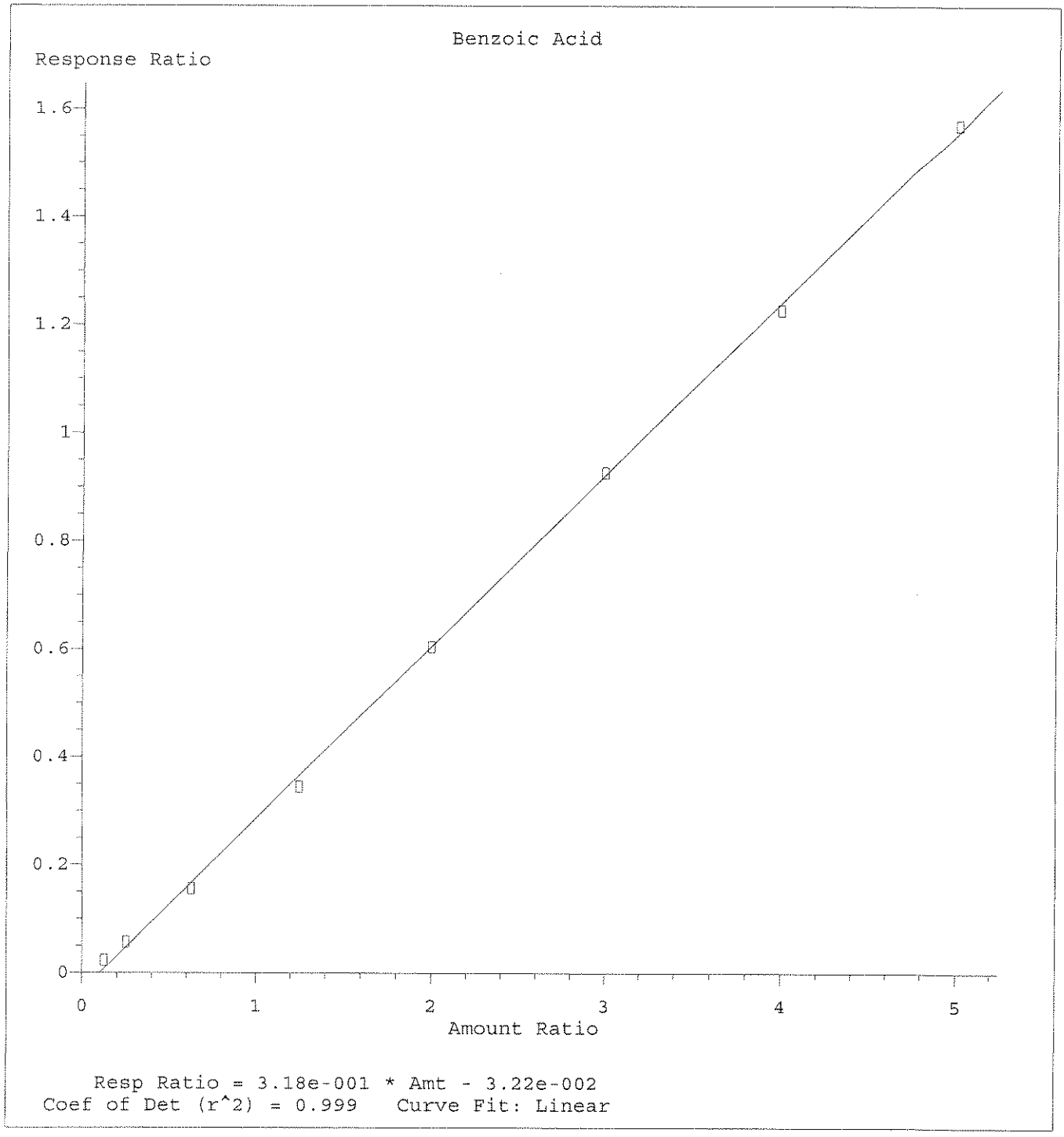
Data File : Q:\SVOA\MS2_ME\ME0506\ME060506\SV212962.D Vial: 1
Acq On : 5 Jun 2006 6:47 pm Operator: JLS
Sample : BPF0039-TUN1 Inst : GC/MS 2
Misc : 10 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)



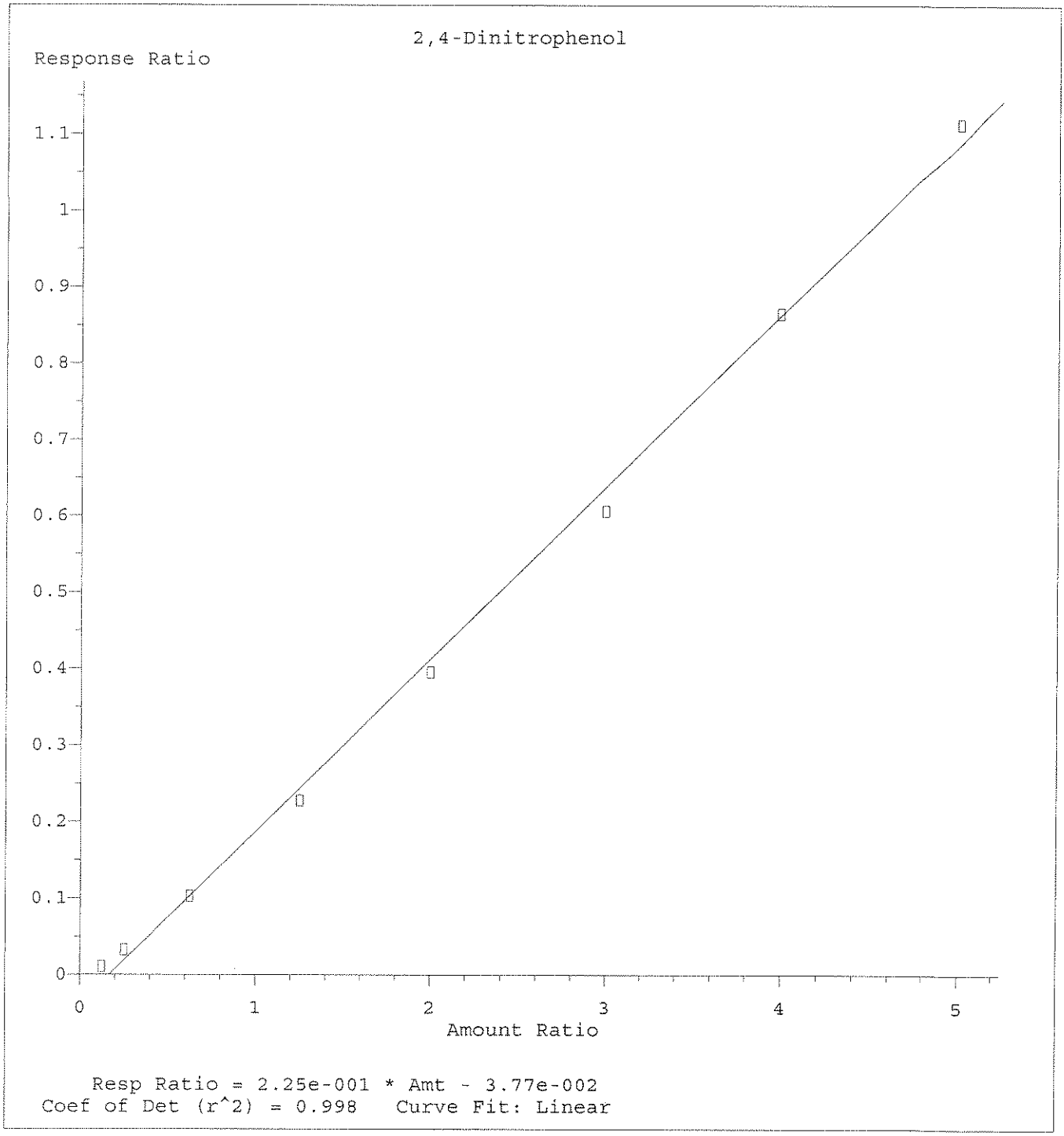
Spectrum Information: Average of 8.479 to 8.520 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	59.9	28972	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	76.0	36742	PASS
70	69	0.00	2	0.3	118	PASS
127	198	40	60	55.4	26789	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	48328	PASS
199	198	5	9	6.5	3142	PASS
275	198	10	30	20.5	9913	PASS
365	198	1	100	2.5	1199	PASS
441	443	0.01	100	93.3	5580	PASS
442	198	40	100	65.9	31832	PASS
443	442	17	23	18.8	5980	PASS

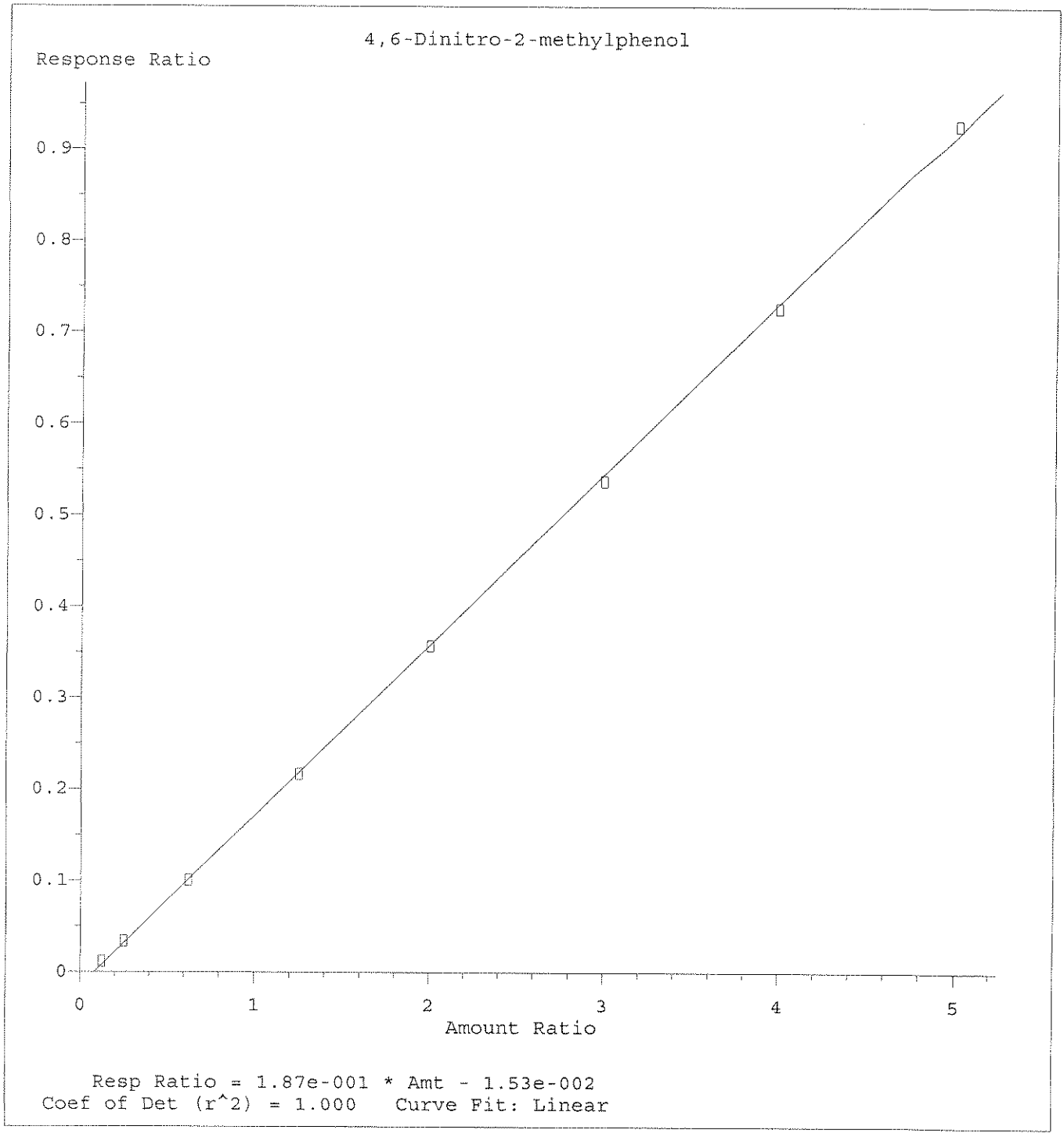
SV212962.D SV2KG.M Tue Jun 06 08:46:30 2006



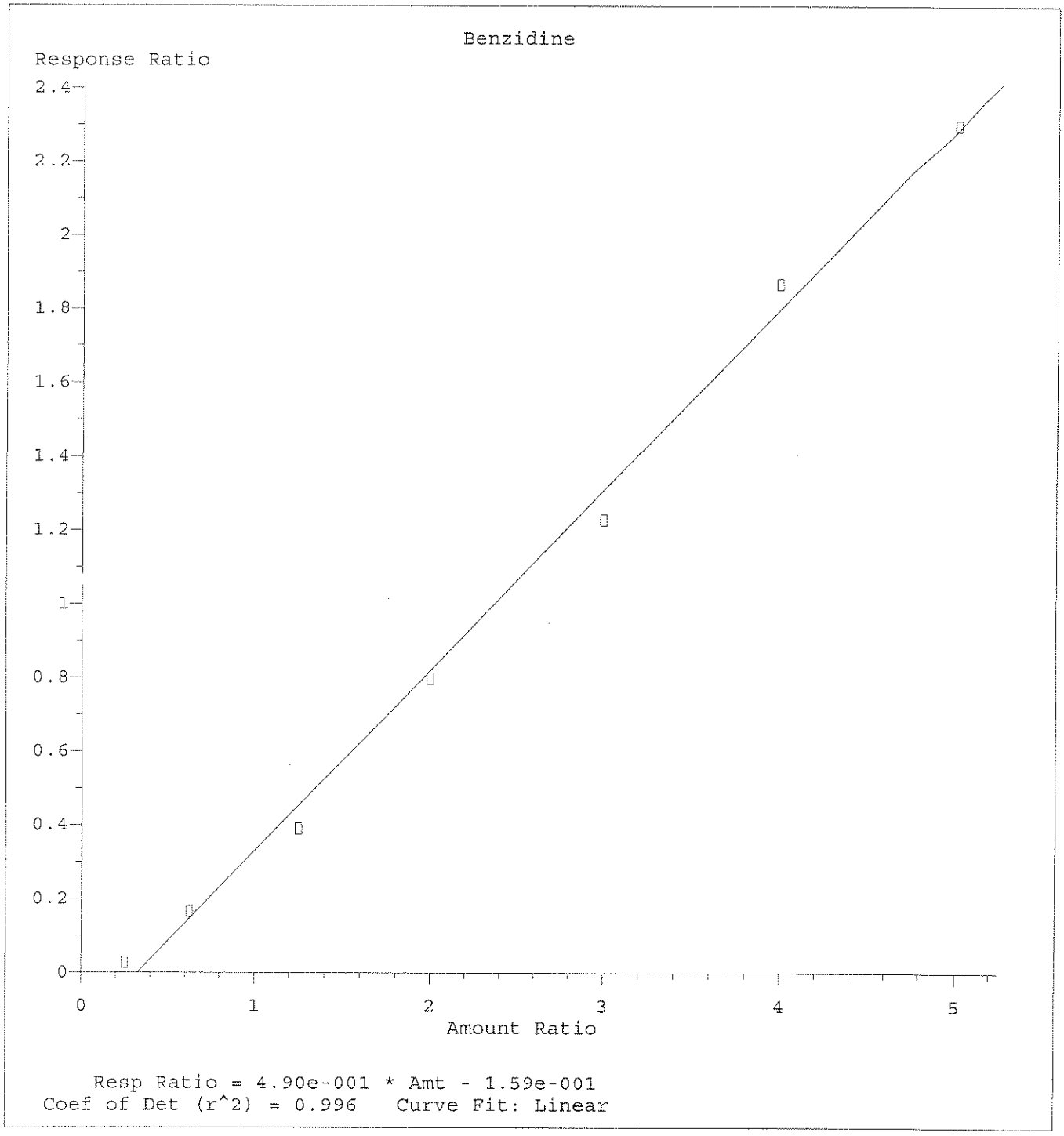
Method Name: C:\HPCHEM\1\METHODS\SV2KG.M
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006



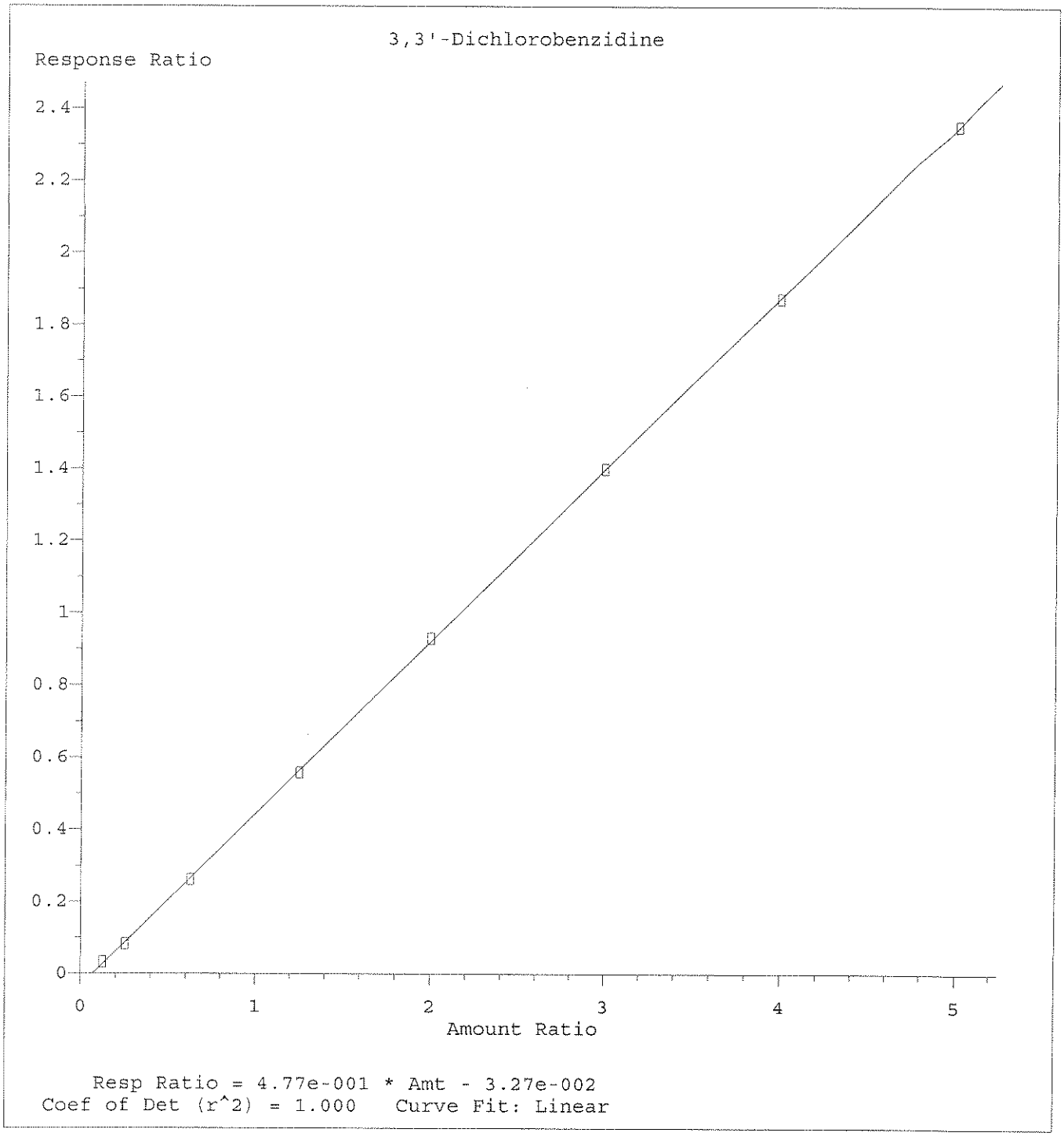
Method Name: C:\HPCHEM\1\METHODS\SV2KG.M
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006



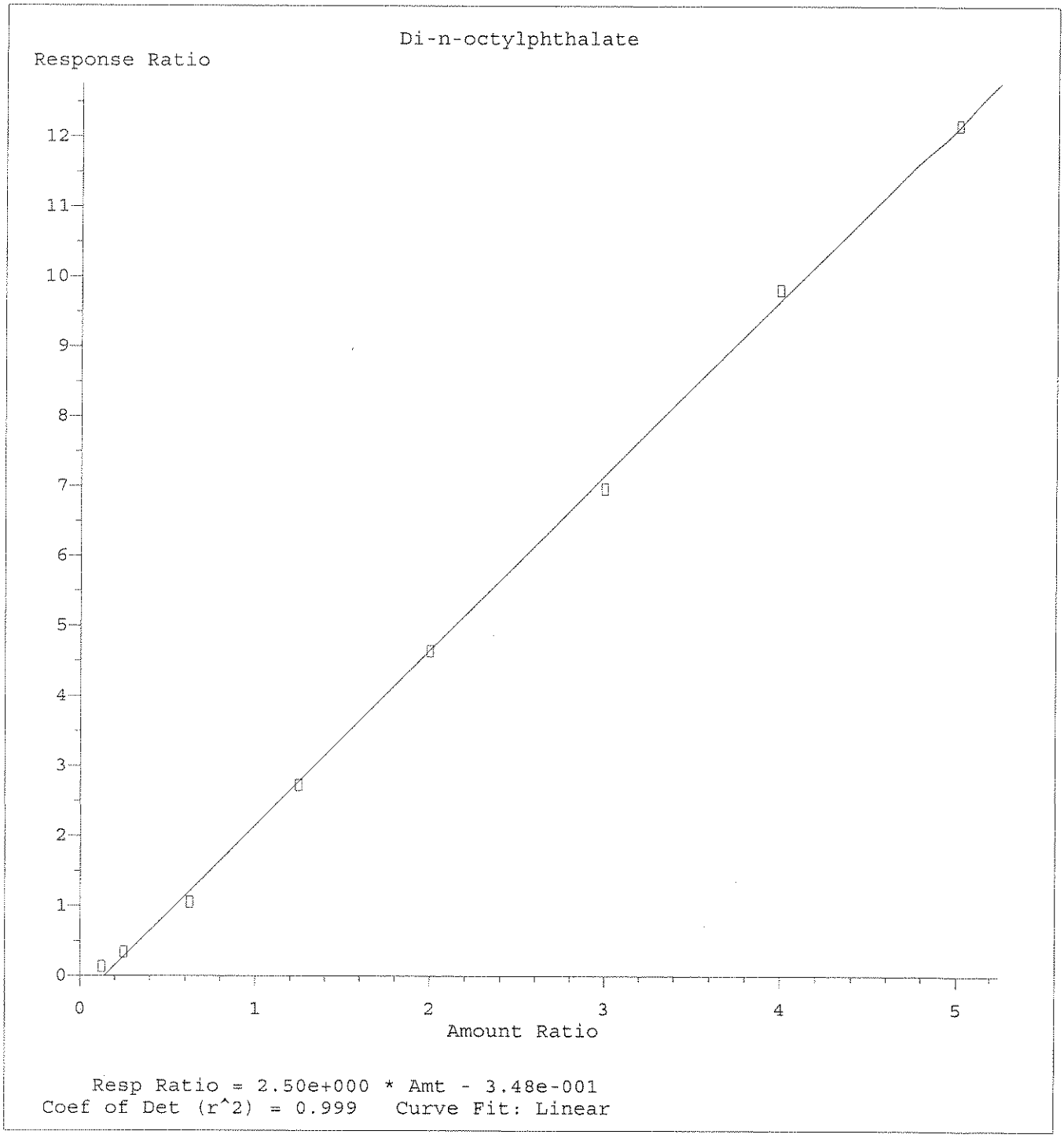
Method Name: C:\HPCHEM\1\METHODS\SV2KG.M
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006



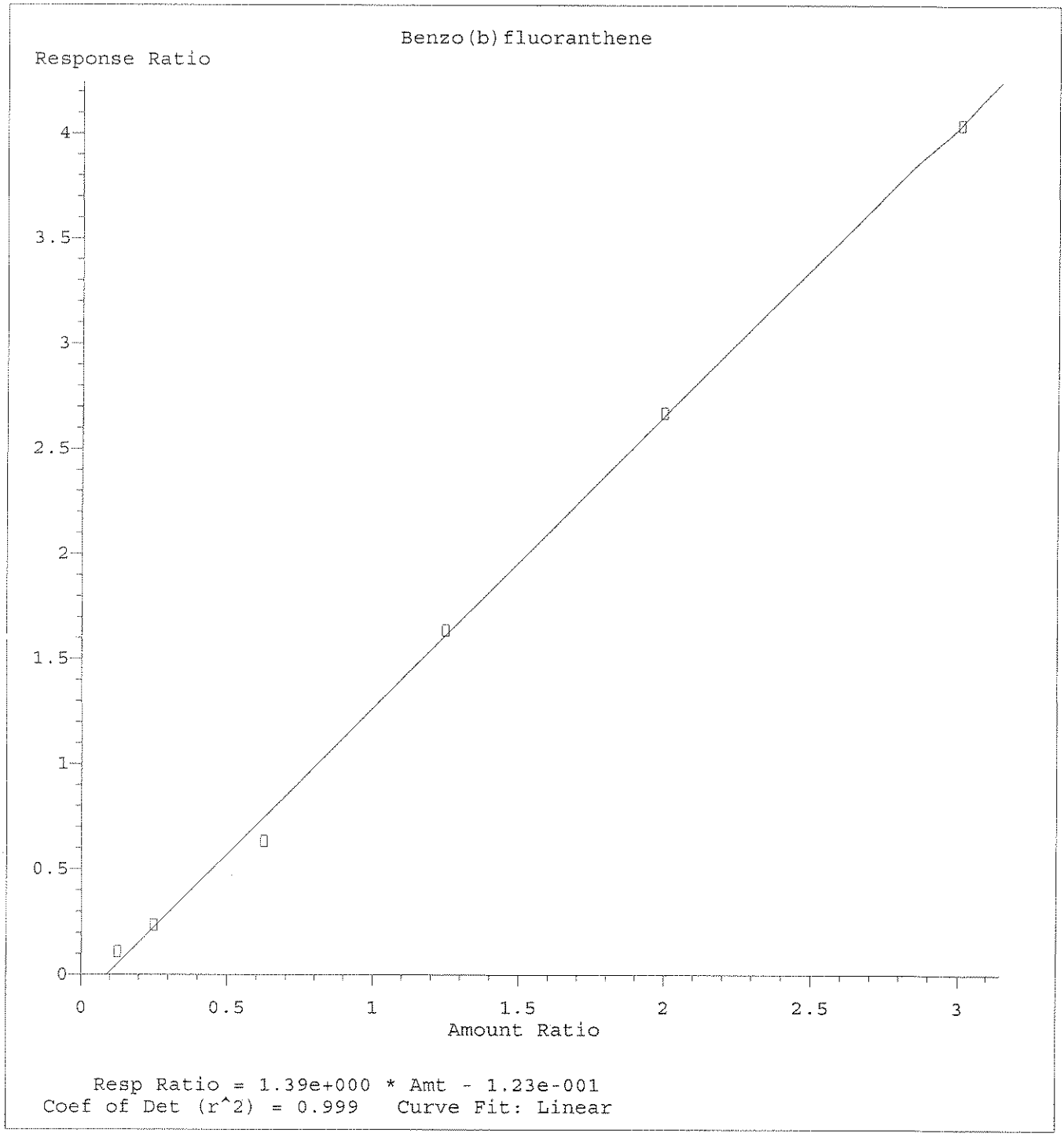
Method Name: C:\HPCHEM\1\METHODS\SV2KG.M
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006



Method Name: C:\HPCHEM\1\METHODS\SV2KG.M
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006



Method Name: C:\HPCHEM\1\METHODS\SV2KG.M
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006



Method Name: C:\HPCHEM\1\METHODS\SV2KG.M
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006

ANALYSIS SEQUENCE

BPF0085

Instrument: SVOAMS2

Calibnration ID: ~~UNASSIGNED~~ SV2KC

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0085-TUN1	QC		1		6E31075		
BPF0085-CCV1	QC		2		6F06044	6F03035	
0606079-01	SVOC: 8270 ppb SVOA	A	3			6F03035	Fuss & O'Neill, Inc. / RIDEM
0606079-02	SVOC: 8270 ppb SVOA	A	4			6F03035	Fuss & O'Neill, Inc. / RIDEM
0606079-03	SVOC: 8270 ppb SVOA	A	5			6F03035	Fuss & O'Neill, Inc. / RIDEM
0606079-04	SVOC: 8270 ppb SVOA	A	6			6F03035	Fuss & O'Neill, Inc. / RIDEM
0606079-05	SVOC: 8270 ppb SVOA	A	7			6F03035	Fuss & O'Neill, Inc. / RIDEM
0606079-06	SVOC: 8270 ppb SVOA	A	8			6F03035	Fuss & O'Neill, Inc. / RIDEM
0606079-07	SVOC: 8270 ppb SVOA	A	9			6F03035	Fuss & O'Neill, Inc. / RIDEM
0606079-08	SVOC: 8270 ppb SVOA	A	10			6F03035	Fuss & O'Neill, Inc. / RIDEM
0606097-01	SVOC: 8270 ppb PAH	A	11			6F03035	Clean Harbors
0606098-01	SVOC: 8270 ppb PAH	A	12			6F03035	Clean Harbors
0606078-12	SVOC: 8270/3541 ppb PAH	A	13			6F03035	MACTEC Engineering & Consulting, In
BF60724-BLK1	QC		14			6F03035	
BF60724-BS1	QC		15			6F03035	
BF60724-BSD1	QC		16			6F03035	
0606078-02	SVOC: 8270/3541 ppb PAH	A	17			6F03035	MACTEC Engineering & Consulting, In
0606078-03	SVOC: 8270/3541 ppb PAH	A	18			6F03035	MACTEC Engineering & Consulting, In
0606078-07	SVOC: 8270/3541 ppb PAH	A	19			6F03035	MACTEC Engineering & Consulting, In
0606078-09	SVOC: 8270/3541 ppb PAH	A	20			6F03035	MACTEC Engineering & Consulting, In
0606078-14	SVOC: 8270/3541 ppb PAH	A	21			6F03035	MACTEC Engineering & Consulting, In
0606078-15	SVOC: 8270/3541 ppb PAH	A	22			6F03035	MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

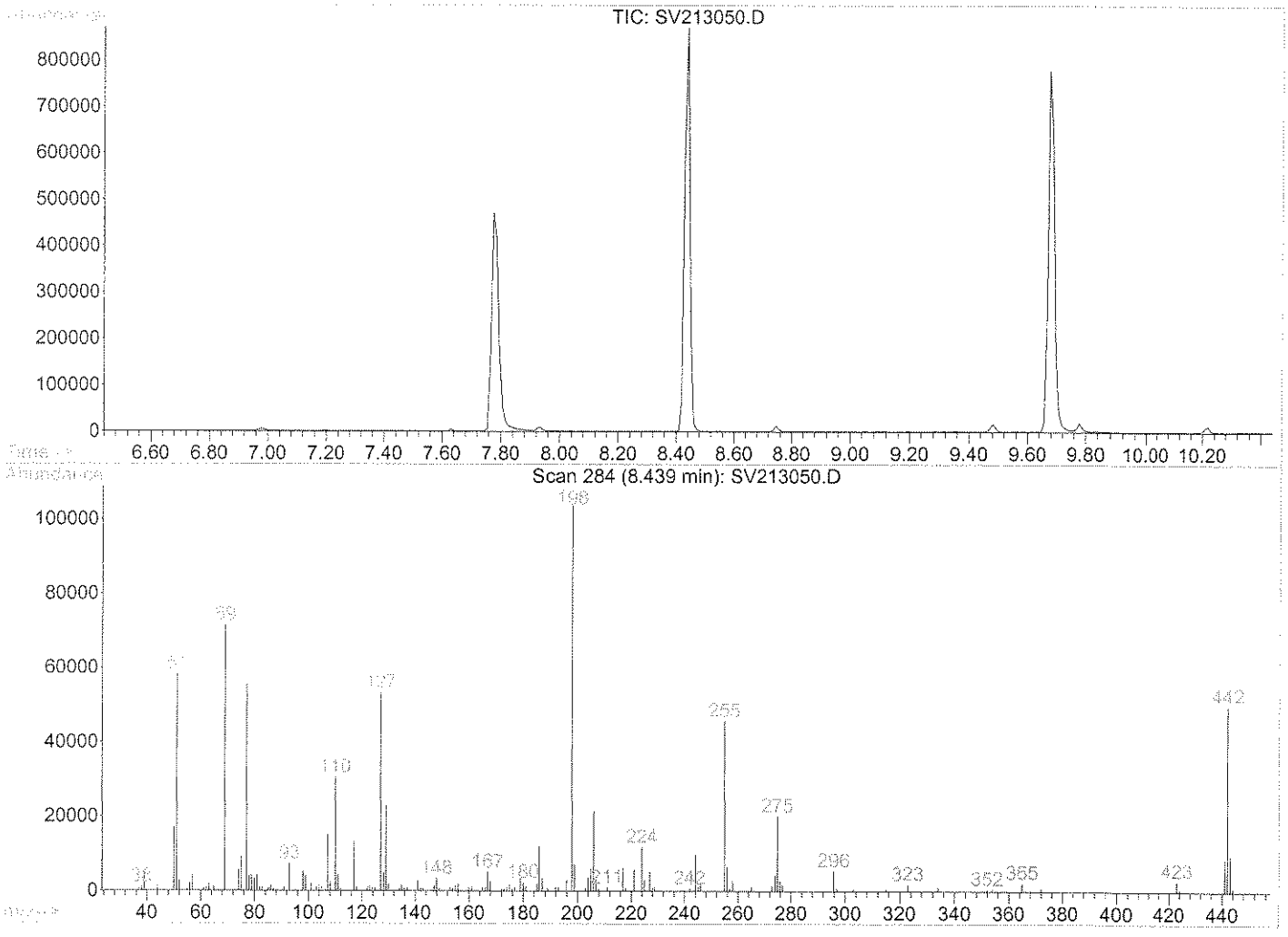
ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/9/06	7	SV2 43	06060 14-04 6/9/06 JS 3DUP3	PAH 2DX	✓	JLS
	8	SV2 44	-04		✓ 1 IS Failed	
	9	SV2 45	-05		✓	
	10	SV2 46	-06		✓ Sounds 10x	
	11	SV2 47	-02		x10 ✓	
	12	SV2 48	-04		✓	
6/9/06	13	SV2 49	060601H -06	PAH2DX	x10	JLS
6/9/06	1	SV2 50	BPF0085-TUN1 ✓	DFTPP	GE31075	USC
	2	SV2 51	BPF0085-CCV1 ✓	SV2KG	GF06044	USC
	3	SV2 52	060679-~~02~~ 04 6/9/06 ✓		GF03035	
	4	SV2 53	-03 ✓			
	5	SV2 54	-04 ✓			
	6	SV2 55	-05 ✓			
	7	SV2 56	-06 ✓			
	8	SV2 57	-07 ✓			
	9	SV2 58	-08 ✓			
	10	SV2 59	060679-01 ✓			
	11	SV2 60	060697-01 ✓			
	12	SV2 61	060698-01 ✓			
	13	SV2 62	BF60724-BLK1 ✓			
	14	SV2 63	BF60724-BS1 ✓			
	15	SV2 64	BF60724-BSD1 ✓			
	16	SV2 65	060678-14 ✓			
	17	SV2 66	-02 ✓			
	18	SV2 67	-03 ✓			
	19	SV2 68	-09 ✓			
	20	SV2 69	-15 ✓			
	21	SV2 70	-12 ✓	✓	✓	✓
6/9/06	22	SV2 71	060678-07 ✓	SV2KG	GF03035	USC

Control Number 60.0019-0601A Page_____

Data File : Q:\SVOA\MS2_ME\ME0606\ME060906\SV213050.D Vial: 1
Acq On : 9 Jun 2006 2:01 pm Operator: VSC
Sample : BPF0085-TUN1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)



Spectrum Information: Scan 284

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	56.2	58200	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	69.0	71408	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	51.5	53248	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	103472	PASS
199	198	5	9	6.8	7061	PASS
275	198	10	30	19.5	20160	PASS
365	198	1	100	2.1	2216	PASS
441	443	0.01	100	90.8	8696	PASS
442	198	40	100	48.2	49904	PASS
443	442	17	23	19.2	9574	PASS

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS2_ME\ME0606\ME060906\SV213051.D Vial: 2
Acq On : 9 Jun 2006 2:21 pm Operator: VSC
Sample : BPF0085-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)
Last Update : Wed Jul 19 20:51:41 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	88	0.43
2		N-Nitrosodimethylamine	0.358	0.365	-2.0	87	0.24
3		Pyridine	0.626	0.562	10.2	79	0.25
4	S	2-Fluorophenol (SURR)	1.301	1.336	-2.7	90	0.42
5		bis(2-Chloroethyl)ether	1.117	1.016	9.0	79	0.40
6	S	Phenol-d5 (SURR)	1.669	1.608	3.7	82	0.38
7		2-Chlorophenol	1.386	1.336	3.6	83	0.41
8	C	Phenol	2.082	2.024	2.8#	86	0.38
9		Aniline	1.867	1.770	5.2	80	0.40
10	S	2-Chlorophenol-d4(SURR)	1.395	1.350	3.2	84	0.41
11		1,3-Dichlorobenzene	1.344	1.347	-0.2	86	0.43
12	C	1,4-Dichlorobenzene	1.713	1.732	-1.1#	88	0.42
13	S	1,2 Dichlorobenzene-d4(SURR	0.876	0.863	1.5	84	0.44
14		1,2-Dichlorobenzene	1.411	1.395	1.1	85	0.44
15		Benzyl Alcohol	1.208	1.112	7.9	79	0.42
16		bis(2-chloroisopropyl)ether	2.593	2.338	9.8	77	0.43
17		2-Methylphenol	1.238	1.152	6.9	80	0.42
18		Acetophenone	1.658	1.558	6.0	79	0.44
19	P	n-Nitroso-di-n-propylamine	1.112	0.995	10.5	75	0.44
20		Hexachloroethane	0.629	0.604	4.0	84	0.46
21		3+4-Methylphenol	1.260	1.182	6.2	78	0.42
22		Naphthalene-d8	1.000	1.000	0.0	75	0.49
23	S	Nitrobenzene-d5 (SURR)	0.385	0.401	-4.2	78	0.45
24		Nitrobenzene	0.397	0.413	-4.0	78	0.45
25		Isophorone	0.720	0.711	1.3	73	0.46
26	C	2-Nitrophenol	0.206	0.201	2.4#	71	0.47
27		Benzoic Acid	0.272	0.285	-4.8	78	0.43
28		2,4-Dimethylphenol	0.322	0.346	-7.5	79	0.45
29		bis(2-Chloroethoxy)methane	0.453	0.451	0.4	73	0.47
30	C	2,4-Dichlorophenol	0.272	0.284	-4.4#	77	0.48
31		1,2,4-Trichlorobenzene	0.287	0.309	-7.7	79	0.49
32		Naphthalene	0.986	1.006	-2.0	75	0.50#
33		4-Chloroaniline	0.432	0.454	-5.1	75	0.49
34	C	Hexachlorobutadiene	0.136	0.154	-13.2#	82	0.50#
35	C	4-Chloro-3-methylphenol	0.293	0.291	0.7#	75	0.50#
36		2-Methylnaphthalene	0.626	0.628	-0.3	74	0.56#
37		1-Methylnaphthalene	0.621	0.623	-0.3	73	0.56#
38		Acenaphthene-d10	1.000	1.000	0.0	73	0.62#
39	P	Hexachlorocyclopentadiene	0.278	0.308	-10.8	81	0.57#
40	C	2,4,6-Trichlorophenol	0.360	0.376	-4.4#	74	0.56#
41		2,4,5-Trichlorophenol	0.383	0.407	-6.3	76	0.56#
42	S	2-Fluorobiphenyl (SURR)	1.229	1.339	-9.0	75	0.57#
43		Biphenyl	1.358	1.472	-8.4	73	0.58#
44		2-Chloronaphthalene	1.274	1.353	-6.2	74	0.59#
45		Dimethylphthalate	1.300	1.342	-3.2	73	0.58#
46		Acenaphthylene	1.845	1.970	-6.8	74	0.62#
47		2,6-Dinitrotoluene	0.333	0.343	-3.0	72	0.59#
48		2-Nitroaniline	0.474	0.447	5.7	75	0.58#

(#) = Out of Range
SV213051.D SV2KG.M Wed Jul 19 20:54:25 2006

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS2_ME\ME0606\ME060906\SV213051.D Vial: 2
Acq On : 9 Jun 2006 2:21 pm Operator: VSC
Sample : BPF0085-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)
Last Update : Wed Jul 19 20:51:41 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	C	Acenaphthene	1.199	1.194	0.4#	71	0.62#
50	P	2,4-Dinitrophenol	0.176	0.173	1.7	70	0.60#
51		Dibenzofuran	1.601	1.658	-3.6	75	0.63#
52	P	4-Nitrophenol	0.152	0.194	-27.6	98	0.57#
53		3-Nitroaniline	0.398	0.404	-1.5	75	0.59#
54		2,4-Dinitrotoluene	0.431	0.439	-1.9	75	0.60#
55		Fluorene	1.230	1.328	-8.0	77	0.64#
56		2,3,4,6-Tetrachlorophenol	0.283	0.310	-9.5	79	0.62#
57		Diethylphthalate	1.337	1.416	-5.9	77	0.61#
58		4-Chloro-phenyl-phenyl ethe	0.532	0.560	-5.3	75	0.63#
59		Phenanthrene-d10	1.000	1.000	0.0	81	0.68#
60		4-Nitroaniline	0.278	0.285	-2.5	81	0.62#
61		4,6-Dinitro-2-methylphenol	0.161	0.165	-2.5	77	0.63#
62	C	n-Nitrosodiphenylamine	0.764	0.793	-3.8#	78	0.63#
63		Azobenzene	1.177	1.129	4.1	76	0.63#
64	S	2,4,6-Tribromophenol (SURR)	0.111	0.112	-0.9	77	0.64#
65		4-Bromophenyl-phenylether	0.215	0.213	0.9	76	0.65#
66		Hexachlorobenzene	0.233	0.238	-2.1	79	0.67#
67	C	Pentachlorophenol	0.127	0.143	-12.6#	86	0.66#
68		Phenanthrene	1.189	1.205	-1.3	80	0.67#
69		Anthracene	1.183	1.220	-3.1	80	0.67#
70		Carbazole	1.113	1.179	-5.9	83	0.66#
71		Di-n-butylphthalate	1.568	1.684	-7.4	82	0.65#
72	C	Fluoranthene	1.034	1.094	-5.8#	85	0.70#
73		Benzidine	0.346	0.552	-59.5#	143	0.68#
74		Chrysene-d12	1.000	1.000	0.0	95	0.72#
75		Pyrene	1.768	1.681	4.9	85	0.71#
76	S	Terphenyl-d14 (SURR)	1.051	1.047	0.4	88	0.68#
77		Butylbenzylphthalate	0.966	0.990	-2.5	90	0.67#
78		3,3'-Dichlorobenzidine	0.416	0.504	-21.2	107	0.69#
79		Benzo(a)anthracene	1.287	1.354	-5.2	98	0.72#
80		Chrysene	1.266	1.278	-0.9	96	0.72#
81		bis(2-Ethylhexyl)phthalate	1.239	1.285	-3.7	90	0.66#
82		Perylene-d12	1.000	1.000	0.0	115	0.74#
83	C	Di-n-octylphthalate	1.978	2.099	-6.1#	111	0.66#
84		Benzo(b)fluoranthene	1.140	1.241	-8.9	109	0.73#
85		Benzo(k)fluoranthene	1.457	1.306	10.4	106	0.73#
86	C	Benzo(a)pyrene	1.126	1.213	-7.7#	125	0.73#
87		Indeno(1,2,3-cd)pyrene	1.002	1.200	-19.8	127	0.77#
88		Dibenzo(a,h)anthracene	0.816	1.003	-22.9	129	0.77#
89		Benzo(g,h,i)perylene	0.864	1.025	-18.6	130	0.82#

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\MS2_ME\ME0606\ME060906\SV213051.D Vial: 2
Acq On : 9 Jun 2006 2:21 pm Operator: VSC
Sample : BPF0085-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 9 15:11 2006 Quant Results File: SV2KG.RES

Quant Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)
Last Update : Wed Jun 07 11:22:57 2006
Response via : Initial Calibration
DataAcq Meth : SV2KG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.73	152	220793	40.00	ng/uL	-0.03
22) Naphthalene-d8	5.06	136	736291	40.00	ng/uL	-0.04
38) Acenaphthene-d10	7.63	164	350027	40.00	ng/uL	-0.04
59) Phenanthrene-d10	10.30	188	501509	40.00	ng/uL	-0.04
74) Chrysene-d12	15.53	240	343600	40.00	ng/uL	-0.06
82) Perylene-d12	18.19	264	352783	40.00	ng/uL	-0.05
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	2.55	112	368612	51.34	ng/uL	-0.04
Spiked Amount 150.000			Recovery = 34.23%			
6) Phenol-d5 (SURR)	3.42	99	443848	48.19	ng/uL	-0.03
Spiked Amount 150.000			Recovery = 32.13%			
10) 2-Chlorophenol-d4(SURR)	3.55	132	372604	48.39	ng/uL	-0.03
Spiked Amount 150.000			Recovery = 32.26%			
13) 1,2 Dichlorobenzene-d4(SUR	3.92	152	238098	49.22	ng/uL	-0.03
Spiked Amount 100.000			Recovery = 49.22%			
23) Nitrobenzene-d5 (SURR)	4.30	82	368857	52.11	ng/uL	-0.03
Spiked Amount 100.000			Recovery = 52.11%			
42) 2-Fluorobiphenyl (SURR)	6.54	172	585970	54.48	ng/uL	-0.04
Spiked Amount 100.000			Recovery = 54.48%			
64) 2,4,6-Tribromophenol (SURR	9.03	330	70380	50.44	ng/uL	-0.05
Spiked Amount 150.000			Recovery = 33.63%			
76) Terphenyl-d14 (SURR)	13.49	244	449518	49.78	ng/uL	-0.05
Spiked Amount 100.000			Recovery = 49.78%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	1.13	42	100636m	50.96	ng/uL	
3) Pyridine	1.14	79	155162	44.93	ng/uL	97
5) bis(2-Chloroethyl)ether	3.51	63	280333	45.48	ng/uL	91
7) 2-Chlorophenol	3.56	128	368673	48.19	ng/uL	92
8) Phenol	3.43	94	558549	48.59	ng/uL	97
9) Aniline	3.46	93	488488	47.41	ng/ul	90
11) 1,3-Dichlorobenzene	3.70	146	371719	50.11	ng/uL	100
12) 1,4-Dichlorobenzene	3.74	146	478015	50.56	ng/uL	100
14) 1,2-Dichlorobenzene	3.93	146	385145	49.45	ng/uL	100
15) Benzyl Alcohol	3.87	79	306956	46.05	ng/uL	92
16) bis(2-chloroisopropyl)ethe	4.02	45	645308	45.09	ng/uL	97
17) 2-Methylphenol	3.99	108	317890	46.52	ng/uL	97
18) Acetophenone	4.14	105	430002	46.98	ng/ul	100
19) n-Nitroso-di-n-propylamine	4.16	70	274673	44.73	ng/uL	97
20) Hexachloroethane	4.23	117	166680	47.99	ng/uL	92
21) 3+4-Methylphenol	4.13	108	326308	46.93	ng/uL	95
24) Nitrobenzene	4.32	77	380519	52.14	ng/uL	97
25) Isophorone	4.55	82	654725	49.38	ng/uL	97
26) 2-Nitrophenol	4.65	139	185144	48.79	ng/uL	97
27) Benzoic Acid	4.80	105	262438m	48.87	ng/uL	
28) 2,4-Dimethylphenol	4.67	107	318649	53.71	ng/uL	97
29) bis(2-Chloroethoxy)methane	4.79	93	414698	49.71	ng/uL	96
30) 2,4-Dichlorophenol	4.91	162	260957	52.05	ng/uL	98
31) 1,2,4-Trichlorobenzene	5.01	180	284272	53.74	ng/uL	99
32) Naphthalene	5.09	128	925697	50.98	ng/uL	99

(#) = qualifier out of range (m) = manual integration
SV213051.D SV2KG.M Wed Jul 19 20:54:17 2006 Page 1

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\MS2_ME\ME0606\ME060906\SV213051.D Vial: 2
Acq On : 9 Jun 2006 2:21 pm Operator: VSC
Sample : BPF0085-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 9 15:11 2006 Quant Results File: SV2KG.RES

Quant Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)
Last Update : Wed Jun 07 11:22:57 2006
Response via : Initial Calibration
DataAcq Meth : SV2KG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
33)	4-Chloroaniline	5.16	127	417616	52.56	ng/uL	98
34)	Hexachlorobutadiene	5.31	225	141982	56.62	ng/uL	99
35)	4-Chloro-3-methylphenol	5.78	107	267963	49.64	ng/uL	93
36)	2-Methylnaphthalene	5.98	142	578012	50.18	ng/uL	98
37)	1-Methylnaphthalene	6.14	142	573545	50.17	ng/uL	98
39)	Hexachlorocyclopentadiene	6.31	237	134723	55.45	ng/uL	99
40)	2,4,6-Trichlorophenol	6.42	196	164474	52.26	ng/uL	99
41)	2,4,5-Trichlorophenol	6.48	196	177986	53.16	ng/uL	100
43)	Biphenyl	6.68	154	644159	54.19	ng/uL	98
44)	2-Chloronaphthalene	6.70	162	592026	53.12	ng/uL	98
45)	Dimethylphthalate	7.25	163	587277	51.63	ng/uL	100
46)	Acenaphthylene	7.37	152	862061	53.41	ng/uL	98
47)	2,6-Dinitrotoluene	7.35	165	150272	51.61	ng/uL	93
48)	2-Nitroaniline	6.89	65	195794	47.15	ng/uL	89
49)	Acenaphthene	7.68	153	522584	49.82	ng/uL	98
50)	2,4-Dinitrophenol	7.75	184	75731	45.17	ng/uL	94
51)	Dibenzofuran	7.96	168	725333	51.77	ng/uL	100
52)	4-Nitrophenol	7.87	109	84834	63.60	ng/uL	90
53)	3-Nitroaniline	7.58	138	176945	50.76	ng/uL	93
54)	2,4-Dinitrotoluene	8.02	165	192091	50.98	ng/uL	91
55)	Fluorene	8.56	166	581124	53.98	ng/uL	99
56)	2,3,4,6-Tetrachlorophenol	8.24	232	135431	54.62	ng/uL	98
57)	Diethylphthalate	8.49	149	619665	52.97	ng/uL	100
58)	4-Chloro-phenyl-phenyl eth	8.58	204	245159	52.70	ng/uL	97
60)	4-Nitroaniline	8.66	138	178690	51.34	ng/uL	81
61)	4,6-Dinitro-2-methylphenol	8.75	198	103527	47.50	ng/uL	93
62)	n-Nitrosodiphenylamine	8.80	169	497402	51.95	ng/uL	97
63)	Azobenzene	8.85	77	707505	47.94	ng/uL	96
65)	4-Bromophenyl-phenylether	9.47	248	133725	49.55	ng/uL	98
66)	Hexachlorobenzene	9.73	284	149078	51.00	ng/uL	95
67)	Pentachlorophenol	10.07	266	89753	56.44	ng/uL	99
68)	Phenanthrene	10.34	178	755401	50.69	ng/uL	100
69)	Anthracene	10.42	178	764987	51.59	ng/uL	99
70)	Carbazole	10.75	167	739296	52.96	ng/ul	98
71)	Di-n-butylphthalate	11.63	149	1055370	53.68	ng/uL	99
72)	Fluoranthene	12.66	202	685511	52.90	ng/uL	98
73)	Benzidine	12.96	184	345786	69.34	ng/uL	98
75)	Pyrene	13.10	202	721901	47.53	ng/uL	96
77)	Butylbenzylphthalate	14.58	149	425193	51.26	ng/uL	100
78)	3,3'-Dichlorobenzidine	15.52	252	216637	55.61	ng/uL	99
79)	Benzo(a)anthracene	15.50	228	581733	52.62	ng/uL	99
80)	Chrysene	15.58	228	548760	50.48	ng/uL	100
81)	bis(2-Ethylhexyl)phthalate	15.82	149	551724	51.83	ng/uL	96
83)	Di-n-octylphthalate	16.97	149	925529	47.53	ng/uL	99
84)	Benzo(b)fluoranthene	17.53	252	547394	48.22	ng/uL	98
85)	Benzo(k)fluoranthene	17.59	252	575834	44.80	ng/uL	98
86)	Benzo(a)pyrene	18.09	252	534819	53.86	ng/uL	98
87)	Indeno(1,2,3-cd)pyrene	19.89	276	528995	59.89	ng/uL	94
88)	Dibenzo(a,h)anthracene	19.92	278	442265	61.44	ng/uL	92
89)	Benzo(g,h,i)perylene	20.30	276	451961	59.30	ng/uL	97

(#) = qualifier out of range (m) = manual integration

ANALYSIS SEQUENCE

BPF0089

Instrument: SVOAMS2

Calibnration ID: UNASSIGNED 5V2KC

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0089-TUN1	QC		1		6E31075		
BPF0089-CCV1	QC		2		6F06044	6F03035	
0606090-01	MA-MCP 8270/3541 ppm	A	3			6F03035	ESS Group, Inc. (MA)
0606136-01	SVOC: 8270 ppb DoD SVOA	A	4			6F03035	RC & D
0606136-02	SVOC: 8270 ppb DoD SVOA	A	5			6F03035	RC & D
0606136-03	SVOC: 8270 ppb DoD SVOA	A	6			6F03035	RC & D
BF60911-BSD1	QC		7			6F03035	
BF60911-BS1	QC		8			6F03035	
BF60911-BLK1	QC		9			6F03035	
0606078-01	SVOC: 8270/3541 ppb PAH	A	10			6F03035	MACTEC Engineering & Consulting, In
0606078-04	SVOC: 8270/3541 ppb PAH	A	11			6F03035	MACTEC Engineering & Consulting, In
0606078-05	SVOC: 8270/3541 ppb PAH	A	12			6F03035	MACTEC Engineering & Consulting, In
0606078-06	SVOC: 8270/3541 ppb PAH	A	13			6F03035	MACTEC Engineering & Consulting, In
0606078-08	SVOC: 8270/3541 ppb PAH	A	14			6F03035	MACTEC Engineering & Consulting, In
0606078-10	SVOC: 8270/3541 ppb PAH	A	15			6F03035	MACTEC Engineering & Consulting, In
0606078-11	SVOC: 8270/3541 ppb PAH	A	16			6F03035	MACTEC Engineering & Consulting, In
0606078-16	SVOC: 8270/3541 ppb PAH	A	17			6F03035	MACTEC Engineering & Consulting, In
0606078-17	SVOC: 8270/3541 ppb PAH	A	18			6F03035	MACTEC Engineering & Consulting, In
BF60724-MS1	QC		19			6F03035	
BF60724-MSD1	QC		20			6F03035	

Samples Loaded By Date

Data Processed By Date

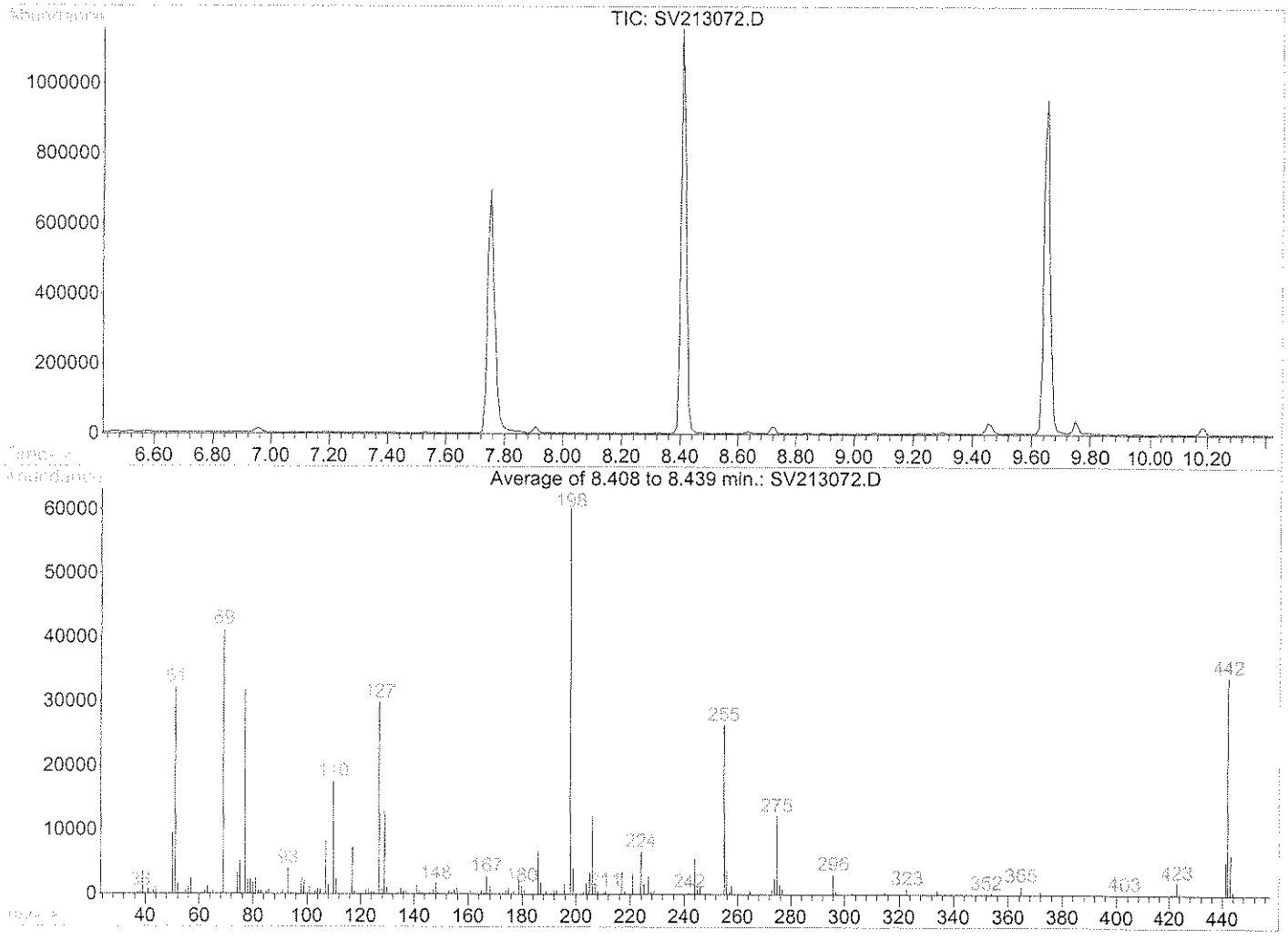
ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/16/06	1	SV2 13072	BPF0089-Tun1 ✓	DFTPP		✓ JC
	2	SV2 73	BPF0089-CCV1 ✓	SV2PCA		
	3	SV2 74	BF60911-BLK1 ✓			
	4	SV2 75	BF60911-BS1 ✓			
	5	SV2 76	BF60911-BSD1 ✓			
	6	SV2 77	0606136-01 ✓			
	7	SV2 78	~~0606136~~ 0606136-02 ✓			
	8	SV2 79	0606136-03 ✓			
	9	SV2 80	0606070-01 ✓			
	10	SV2 81	0606078-12 ✓			
	11	SV2 82	-06 ✓			
	12	SV2 83	-11 ✓			
	13	SV2 84	-16 ✓			
	14	SV2 85	-10 ✓			
	15	SV2 86	-01 ✓		RR 4X	
	16	SV2 87	-05 ✓			
	17	SV2 88	-05MS ✓			
	18	SV2 89	-05MSD ✓			
	19	SV2 90	-17 ✓			
	20	SV2 91	-04 ✓			
6/16/06	21	SV2 92	0606078-08 ✓	SV2PCA	RR 20X	✓ JC
6/12/06	1	SV2 93	TUN1	DFTPP		JCS
	2	SV2 94	CCV1	PAH20X	✓	
	3	SV2 95	BF60724-BLK2			
	4	SV2 96	-BS2			
	5	SV2 97	-BSD2			
	6	SV2 98	0606078-07			
	7	SV2 99	0606078-15			
6/12/06	8	SV2 00	0606078-14	PAH20X		JCS

Control Number 60.0019-0601A Page_____

Data File : Q:\SVOA\MS2_ME\ME0606\ME061006\SV213072.D Vial: 1
Acq On : 10 Jun 2006 11:17 am Operator: VSC
Sample : BPF0089-TUN1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\PAH2DX.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606012



Spectrum Information: Average of 8.408 to 8.439 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	53.5	32186	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	68.6	41284	PASS
70	69	0.00	2	0.3	138	PASS
127	198	40	60	49.6	29877	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	60198	PASS
199	198	5	9	6.7	4008	PASS
275	198	10	30	20.3	12226	PASS
365	198	1	100	2.2	1338	PASS
441	443	0.01	100	82.6	5286	PASS
442	198	40	100	56.5	34003	PASS
443	442	17	23	18.8	6396	PASS

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS2_ME\ME0606\ME061006\SV213073.D Vial: 2
Acq On : 10 Jun 2006 11:37 am Operator: VSC
Sample : BPF0089-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)
Last Update : Fri Jul 07 11:51:45 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	75	0.41
2		N-Nitrosodimethylamine	0.358	0.355	0.8	72	0.23
3		Pyridine	0.626	0.537	14.2	65	0.23
4	S	2-Fluorophenol (SURR)	1.301	1.366	-5.0	79	0.41
5		bis(2-Chloroethyl)ether	1.117	1.051	5.9	70	0.39
6	S	Phenol-d5 (SURR)	1.669	1.606	3.8	70	0.37
7		2-Chlorophenol	1.386	1.349	2.7	72	0.40
8	C	Phenol	2.082	2.022	2.9#	73	0.37
9		Aniline	1.867	1.814	2.8	70	0.39
10	S	2-Chlorophenol-d4(SURR)	1.395	1.370	1.8	73	0.40
11		1,3-Dichlorobenzene	1.344	1.405	-4.5	77	0.41
12	C	1,4-Dichlorobenzene	1.713	1.681	1.9#	73	0.41
13	S	1,2 Dichlorobenzene-d4(SURR	0.876	0.871	0.6	73	0.42
14		1,2-Dichlorobenzene	1.411	1.416	-0.4	74	0.43
15		Benzyl Alcohol	1.208	1.126	6.8	69	0.41
16		bis(2-chloroisopropyl)ether	2.593	2.420	6.7	68	0.42
17		2-Methylphenol	1.238	1.174	5.2	70	0.41
18		Acetophenone	1.658	1.612	2.8	70	0.42
19	P	n-Nitroso-di-n-propylamine	1.112	1.052	5.4	68	0.42
20		Hexachloroethane	0.629	0.648	-3.0	77	0.44
21		3+4-Methylphenol	1.260	1.214	3.7	69	0.40
22		Naphthalene-d8	1.000	1.000	0.0	65	0.49
23	S	Nitrobenzene-d5 (SURR)	0.385	0.409	-6.2	69	0.44
24		Nitrobenzene	0.397	0.417	-5.0	68	0.43
25		Isophorone	0.720	0.749	-4.0	66	0.46
26	C	2-Nitrophenol	0.206	0.210	-1.9#	64	0.46
27		Benzoic Acid	0.272	0.300	-10.3	71	0.41
28		2,4-Dimethylphenol	0.322	0.360	-11.8	71	0.44
29		bis(2-Chloroethoxy)methane	0.453	0.460	-1.5	65	0.46
30	C	2,4-Dichlorophenol	0.272	0.290	-6.6#	68	0.47
31		1,2,4-Trichlorobenzene	0.287	0.312	-8.7	69	0.49
32		Naphthalene	0.986	1.029	-4.4	66	0.49
33		4-Chloroaniline	0.432	0.464	-7.4	66	0.49
34	C	Hexachlorobutadiene	0.136	0.159	-16.9#	73	0.50
35	C	4-Chloro-3-methylphenol	0.293	0.311	-6.1#	69	0.49
36		2-Methylnaphthalene	0.626	0.644	-2.9	66	0.54#
37		1-Methylnaphthalene	0.621	0.640	-3.1	65	0.54#
38		Acenaphthene-d10	1.000	1.000	0.0	68	0.60#
39	P	Hexachlorocyclopentadiene	0.278	0.301	-8.3	73	0.55#
40	C	2,4,6-Trichlorophenol	0.360	0.368	-2.2#	67	0.54#
41		2,4,5-Trichlorophenol	0.383	0.410	-7.0	71	0.54#
42	S	2-Fluorobiphenyl (SURR)	1.229	1.265	-2.9	66	0.55#
43		Biphenyl	1.358	1.428	-5.2	66	0.56#
44		2-Chloronaphthalene	1.274	1.345	-5.6	68	0.57#
45		Dimethylphthalate	1.300	1.430	-10.0	72	0.56#
46		Acenaphthylene	1.845	1.987	-7.7	69	0.60#
47		2,6-Dinitrotoluene	0.333	0.375	-12.6	73	0.57#
48		2-Nitroaniline	0.474	0.474	0.0	74	0.56#

(#) = Out of Range
SV213073.D SV2KG.M Wed Jul 19 20:51:26 2006

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS2_ME\ME0606\ME061006\SV213073.D Vial: 2
Acq On : 10 Jun 2006 11:37 am Operator: VSC
Sample : BPF0089-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)
Last Update : Fri Jul 07 11:51:45 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	C	Acenaphthene	1.199	1.201	-0.2#	66	0.60#
50	P	2,4-Dinitrophenol	0.176	0.199	-13.1	74	0.58#
51		Dibenzofuran	1.601	1.691	-5.6	71	0.61#
52	P	4-Nitrophenol	0.152	0.200	-31.6#	93	0.55#
53		3-Nitroaniline	0.398	0.426	-7.0	73	0.57#
54		2,4-Dinitrotoluene	0.431	0.480	-11.4	76	0.58#
55		Fluorene	1.230	1.408	-14.5	76	0.62#
56		2,3,4,6-Tetrachlorophenol	0.283	0.330	-16.6	78	0.60#
57		Diethylphthalate	1.337	1.559	-16.6	79	0.59#
58		4-Chloro-phenyl-phenyl ethe	0.532	0.593	-11.5	73	0.61#
59		Phenanthrene-d10	1.000	1.000	0.0	77	0.65#
60		4-Nitroaniline	0.278	0.274	1.4	74	0.60#
61		4,6-Dinitro-2-methylphenol	0.161	0.169	-5.0	75	0.60#
62	C	n-Nitrosodiphenylamine	0.764	0.822	-7.6#	77	0.61#
63		Azobenzene	1.177	1.175	0.2	76	0.61#
64	S	2,4,6-Tribromophenol (SURR)	0.111	0.120	-8.1	79	0.62#
65		4-Bromophenyl-phenylether	0.215	0.227	-5.6	77	0.63#
66		Hexachlorobenzene	0.233	0.247	-6.0	78	0.65#
67	C	Pentachlorophenol	0.127	0.146	-15.0#	84	0.64#
68		Phenanthrene	1.189	1.227	-3.2	78	0.65#
69		Anthracene	1.183	1.255	-6.1	78	0.65#
70		Carbazole	1.113	1.103	0.9	74	0.64#
71		Di-n-butylphthalate	1.568	1.682	-7.3	78	0.62#
72	C	Fluoranthene	1.034	0.993	4.0#	73	0.68#
73		Benzidine	0.346	0.444	-28.3	110	0.66#
74		Chrysene-d12	1.000	1.000	0.0	72	0.69#
75		Pyrene	1.768	1.861	-5.3	72	0.68#
76	S	Terphenyl-d14 (SURR)	1.051	1.144	-8.8	73	0.66#
77		Butylbenzylphthalate	0.966	1.057	-9.4	74	0.64#
78		3,3'-Dichlorobenzidine	0.416	0.511	-22.8	83	0.67#
79		Benzo(a)anthracene	1.287	1.370	-6.4	75	0.69#
80		Chrysene	1.266	1.304	-3.0	74	0.69#
81		bis(2-Ethylhexyl)phthalate	1.239	1.395	-12.6	74	0.63#
82		Perylene-d12	1.000	1.000	0.0	85	0.71#
83	C	Di-n-octylphthalate	1.978	2.311	-16.8#	90	0.63#
84		Benzo(b)fluoranthene	1.140	1.280	-12.3	83	0.70#
85		Benzo(k)fluoranthene	1.457	1.317	9.6	78	0.70#
86	C	Benzo(a)pyrene	1.126	1.206	-7.1#	91	0.70#
87		Indeno(1,2,3-cd)pyrene	1.002	1.301	-29.8	101	0.74#
88		Dibenzo(a,h)anthracene	0.816	1.099	-34.7#	104	0.73#
89		Benzo(g,h,i)perylene	0.864	1.104	-27.8	103	0.79#

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\MS2_ME\ME0606\ME061006\SV213073.D Vial: 2
Acq On : 10 Jun 2006 11:37 am Operator: VSC
Sample : BPF0089-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 10 12:10 2006 Quant Results File: SV2KG.RES

Quant Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)
Last Update : Sat Jun 10 10:14:35 2006
Response via : Initial Calibration
DataAcq Meth : SV2KG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.71	152	188668	40.00	ng/uL	-0.02
22) Naphthalene-d8	5.05	136	635391	40.00	ng/uL	0.00
38) Acenaphthene-d10	7.61	164	324166	40.00	ng/uL	-0.02
59) Phenanthrene-d10	10.27	188	478964	40.00	ng/uL	-0.03
74) Chrysene-d12	15.50	240	262017	40.00	ng/uL	-0.03
82) Perylene-d12	18.16	264	258555	40.00	ng/uL	-0.03
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	2.54	112	322171	52.51	ng/uL	0.00
Spiked Amount 150.000			Recovery = 35.01%			
6) Phenol-d5 (SURR)	3.41	99	378811	48.13	ng/uL	0.00
Spiked Amount 150.000			Recovery = 32.09%			
10) 2-Chlorophenol-d4(SURR)	3.54	132	323008	49.09	ng/uL	0.00
Spiked Amount 150.000			Recovery = 32.73%			
13) 1,2 Dichlorobenzene-d4(SUR	3.90	152	205479	49.71	ng/uL	-0.02
Spiked Amount 100.000			Recovery = 49.71%			
23) Nitrobenzene-d5 (SURR)	4.29	82	325045	53.22	ng/uL	0.00
Spiked Amount 100.000			Recovery = 53.22%			
42) 2-Fluorobiphenyl (SURR)	6.53	172	512602	51.46	ng/uL	-0.02
Spiked Amount 100.000			Recovery = 51.46%			
64) 2,4,6-Tribromophenol (SURR	9.01	330	71941	53.98	ng/uL	-0.02
Spiked Amount 150.000			Recovery = 35.99%			
76) Terphenyl-d14 (SURR)	13.47	244	374721	54.42	ng/uL	-0.02
Spiked Amount 100.000			Recovery = 54.42%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	1.12	42	83791	49.66	ng/uL	84
3) Pyridine	1.12	79	126753	42.96	ng/uL	89
5) bis(2-Chloroethyl)ether	3.50	63	247841	47.06	ng/uL	95
7) 2-Chlorophenol	3.55	128	318255	48.68	ng/uL	93
8) Phenol	3.42	94	476753	48.54	ng/uL	94
9) Aniline	3.45	93	427879	48.60	ng/ul	93
11) 1,3-Dichlorobenzene	3.68	146	331446	52.29	ng/uL	99
12) 1,4-Dichlorobenzene	3.73	146	396539	49.08	ng/uL	100
14) 1,2-Dichlorobenzene	3.92	146	333947	50.18	ng/uL	100
15) Benzyl Alcohol	3.86	79	265595	46.63	ng/uL	93
16) bis(2-chloroisopropyl)ethe	4.01	45	570696	46.67	ng/uL	96
17) 2-Methylphenol	3.98	108	276932	47.43	ng/uL	96
18) Acetophenone	4.12	105	380266	48.62	ng/ul	85
19) n-Nitroso-di-n-propylamine	4.14	70	248120	47.29	ng/uL	97
20) Hexachloroethane	4.22	117	152757	51.47	ng/uL	92
21) 3+4-Methylphenol	4.11	108	286419	48.21	ng/uL	100
24) Nitrobenzene	4.30	77	331418	52.62	ng/uL	97
25) Isophorone	4.54	82	594957	51.99	ng/uL	99
26) 2-Nitrophenol	4.63	139	167153	51.04	ng/uL	89
27) Benzoic Acid	4.78	105	238261m	51.21	ng/uL	
28) 2,4-Dimethylphenol	4.67	107	286183	55.90	ng/uL	95
29) bis(2-Chloroethoxy)methane	4.77	93	365218	50.73	ng/uL	99
30) 2,4-Dichlorophenol	4.89	162	230164	53.20	ng/uL	98
31) 1,2,4-Trichlorobenzene	5.00	180	247615	54.25	ng/uL	99
32) Naphthalene	5.07	128	216937	52.13	ng/uL	99

(#) = qualifier out of range (m) = manual integration
SV213073.D SV2KG.M Wed Jul 19 20:51:19 2006

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\MS2_ME\ME0606\ME061006\SV213073.D Vial: 2
Acq On : 10 Jun 2006 11:37 am Operator: VSC
Sample : BPF0089-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 10 12:10 2006 Quant Results File: SV2KG.RES

Quant Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)
Last Update : Sat Jun 10 10:14:35 2006
Response via : Initial Calibration
DataAcq Meth : SV2KG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
33) 4-Chloroaniline	5.16	127	368708	53.77	ng/uL	99
34) Hexachlorobutadiene	5.30	225	126323	58.37	ng/uL	98
35) 4-Chloro-3-methylphenol	5.76	107	246638	52.94	ng/uL	89
36) 2-Methylnaphthalene	5.96	142	511853	51.49	ng/uL	98
37) 1-Methylnaphthalene	6.12	142	508676	51.56	ng/uL	99
39) Hexachlorocyclopentadiene	6.29	237	122032	54.24	ng/uL	98
40) 2,4,6-Trichlorophenol	6.40	196	149290	51.22	ng/uL	99
41) 2,4,5-Trichlorophenol	6.46	196	165977	53.53	ng/uL	99
43) Biphenyl	6.66	154	578689	52.56	ng/uL	98
44) 2-Chloronaphthalene	6.68	162	545113	52.81	ng/uL	99
45) Dimethylphthalate	7.23	163	579373	55.00	ng/uL	100
46) Acenaphthylene	7.35	152	805132	53.86	ng/uL	97
47) 2,6-Dinitrotoluene	7.33	165	151850	56.31	ng/uL	92
48) 2-Nitroaniline	6.87	65	192254	50.00	ng/uL	88
49) Acenaphthene	7.66	153	486764	50.11	ng/uL	98
50) 2,4-Dinitrophenol	7.73	184	80594	50.91	ng/uL	94
51) Dibenzofuran	7.94	168	685094	52.80	ng/uL	99
52) 4-Nitrophenol	7.85	109	81079	65.64	ng/uL	98
53) 3-Nitroaniline	7.56	138	172708	53.50	ng/uL	91
54) 2,4-Dinitrotoluene	8.00	165	194623	55.77	ng/uL	92
55) Fluorene	8.54	166	570478	57.22	ng/uL	99
56) 2,3,4,6-Tetrachlorophenol	8.22	232	133606	58.18	ng/uL	98
57) Diethylphthalate	8.47	149	631858	58.32	ng/uL	100
58) 4-Chloro-phenyl-phenyl eth	8.56	204	240090	55.73	ng/uL	97
60) 4-Nitroaniline	8.64	138	164023	49.34	ng/uL	80
61) 4,6-Dinitro-2-methylphenol	8.72	198	100996	48.45	ng/uL	71
62) n-Nitrosodiphenylamine	8.79	169	492388	53.85	ng/uL	97
63) Azobenzene	8.84	77	703504	49.91	ng/uL	96
65) 4-Bromophenyl-phenylether	9.45	248	136056	52.78	ng/uL	98
66) Hexachlorobenzene	9.72	284	147789	52.94	ng/uL	92
67) Pentachlorophenol	10.05	266	87543	57.64	ng/uL	98
68) Phenanthrene	10.32	178	734735	51.63	ng/uL	99
69) Anthracene	10.40	178	751088	53.03	ng/uL	99
70) Carbazole	10.73	167	660329	49.53	ng/ul	97
71) Di-n-butylphthalate	11.60	149	1007189	53.64	ng/uL	100
72) Fluoranthene	12.64	202	594474	48.03	ng/uL	94
73) Benzidine	12.95	184	266012	58.39	ng/uL	94
75) Pyrene	13.07	202	609484	52.62	ng/uL	100
77) Butylbenzylphthalate	14.55	149	346058	54.71	ng/uL	94
78) 3,3'-Dichlorobenzidine	15.50	252	167355	56.30	ng/uL	96
79) Benzo(a)anthracene	15.47	228	448651	53.22	ng/uL	99
80) Chrysene	15.55	228	427225	51.53	ng/uL	100
81) bis(2-Ethylhexyl)phthalate	15.79	149	456821	56.28	ng/uL	99
83) Di-n-octylphthalate	16.94	149	746913	51.77	ng/uL	99
84) Benzo(b)fluoranthene	17.51	252	413594	49.60	ng/uL	99
85) Benzo(k)fluoranthene	17.56	252	425509	45.17	ng/uL	94
86) Benzo(a)pyrene	18.06	252	389713	53.55	ng/uL	100
87) Indeno(1,2,3-cd)pyrene	19.86	276	420317m	64.93	ng/uL	
88) Dibenzo(a,h)anthracene	19.88	278	355259	67.34	ng/uL	93
89) Benzo(g,h,i)perylene	20.27	276	356722	63.86	ng/uL	96

(#) = qualifier out of range (m) = manual integration
SV213073.D SV2KG.M Wed Jul 19 20:51:20 2006

ANALYSIS SEQUENCE

BPF0041

Instrument: SVOA-MS1

Calibnration ID: ~~UNASSIGNED~~ 5VINF

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0041-TUN1	QC		1		6E31075		
BPF0041-CAL1	QC		2		6E31076	6E26058	
BPF0041-CAL2	QC		3		6E31077	6E26058	
BPF0041-CAL3	QC		4		6E31078	6E26058	
BPF0041-CAL4	QC		5		6E31079	6E26058	
BPF0041-CAL5	QC		6		6E31080	6E26058	
BPF0041-CAL6	QC		7		6E31081	6E26058	
BPF0041-CAL7	QC		8		6E31082	6E26058	
BPF0041-CAL8	QC		9		6E31083	6E26058	
BPF0041-SCV1	QC		10		6E31084	6E26058	

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GCMS1 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/3/06	12	SV1 38928	0605478-06	SVINE	5X 6E26058	VSL
	13	SV1 29	0605488-02		ra. IS Failed	
	14	SV1 30	0605488-01		RR 5x	
	15	SV1 31	0605435-01			
	13RE	SV1 32	0605488-02			
6/3/06	16	SV1 33	0605488-01	SVINE	5X 6E26058	VSL
6/5/06	1	SV1 34	TWM1	DFTPP		~~VSL~~ 6/6/06
	2	SV1 35	CCV1	SVINE		VSL/JS
	2	SV1 36	CCV1	SVINE		
	1	SV1 37	~~TWM1~~ BPF0038-TWM1 6/6/06	DFTPP	6E31075	
	2	SV1 38	~~CC4~~ BPF0038-CCV1 6/6/06	SVINE	6E26057	
	3	SV1 39	BF60137-BLK1		6F03035	
	4	SV1 40	BF60137-BS1			
	5	SV1 41	BF60137-BSD1			
	6	SV1 42	BF60121-BLK1			
	7	SV1 43	BF60121-BS1			
	8	SV1 44	BF60121-BSD1			
	9	SV1 45	0605429-01			
	10	SV1 46	0605429-02			
	11	SV1 47	0605429-03			
	12	SV1 48	0605487-02			
	13	SV1 49	0605487-03			
	14	SV1 50	0605435-01			
	15	SV1 51	0605435-03			
	16	SV1 52	0605488-01			
	17	SV1 53	0605488-02			
	18	SV1 54	0605488-01		6F03035	
6/5/06	19	SV1 55	0605454-01	SVINE	no IS added!	VSL/JS
6/6/06	1	SV1 56	BPF0041-TWM1	DFTPP	6E31075	VSL
6/6/06	2	SV1 57	BPF0041-CCV1	SVINE	6E31076	VSL

Ⓐ VSL 6/6/06 5 errors

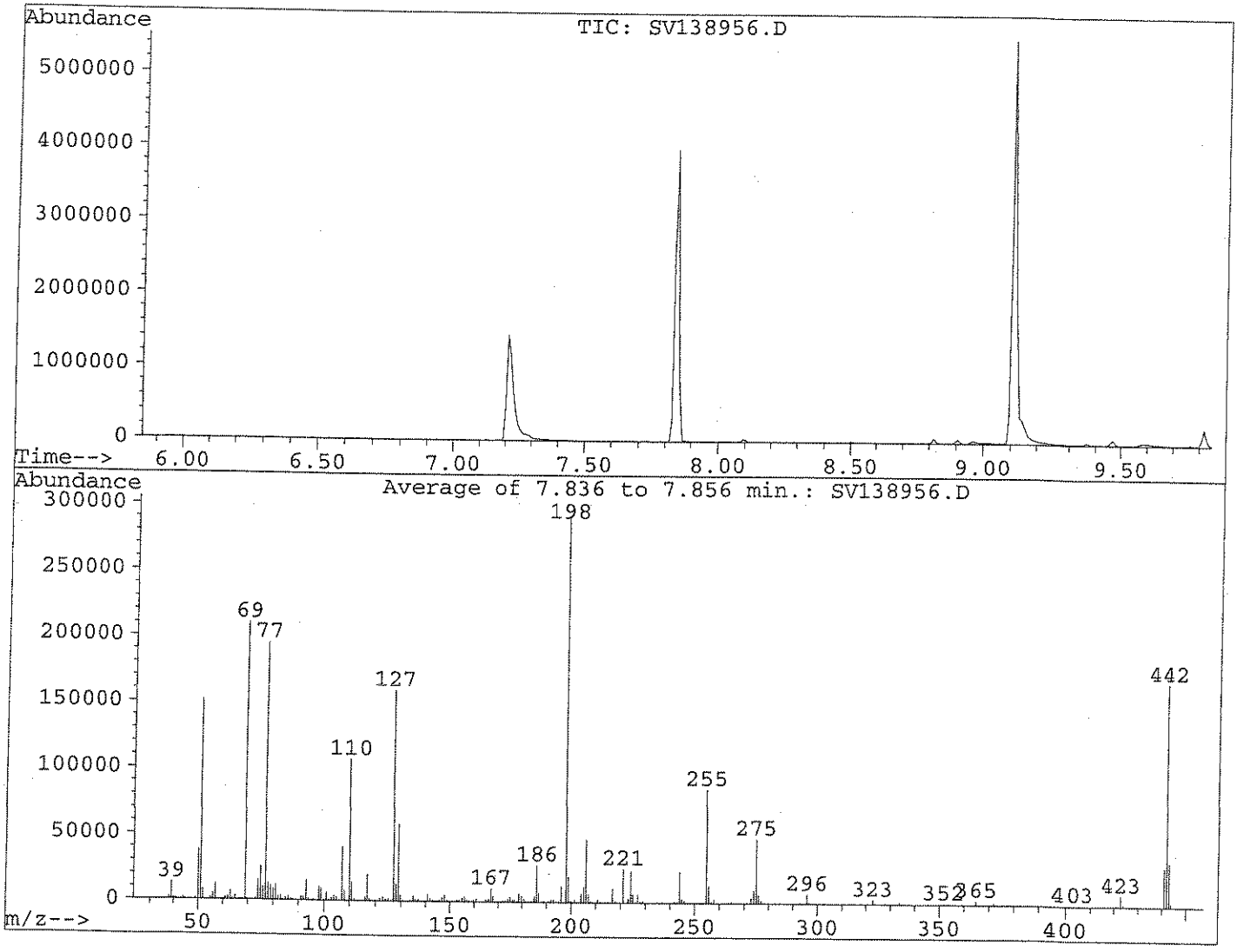
ESS LABORATORY
GCMS1 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
			VM 3/20/06			
6/6/06	3	SV1 38958	BPF0041-cal2	SVINF	6E31077	LSC
	4	SV1 59	BPF0041-cal3		78	
	5	SV1 60	BPF0041-cal4		79	
	6	SV1 61	-cal5		80	
	7	SV1 62	-cal6		81	
	8	SV1 63	-cal7		82	
	9	SV1 64	-cal8		83	
	10	SV1 65	BPF0041-SLV1	SVINF	6E31084	
	1	SV1 66	BPF0049-TUN1	DFTPP	6E31075	
	2	SV1 67	BPF0049-CLV1	SVINF	6F06044	
	3	SV1 68	TCLP MS QC		6F03035	
	4	SV1 69	BF60223-BLK1			
	5	SV1 70	BF60223-BS1			
	6	SV1 71	BF60223-BSD1			
	7	SV1 72	0605491-01			
	8	SV1 73	0605491-02			
	9	SV1 74	0605491-03			
	10	SV1 75	0605491-04			
	11	SV1 76	0606010-02			
	12	SV1 77	0605486-01			
	13	SV1 78	-03 X		RR-Bad Run	
	14	SV1 79	-04			
	15	SV1 80	-05 X		RR Bad Run	
	16	SV1 81	-06		RF Es Failed	
	17	SV1 82	0605486-12			
	18	SV1 83	0606043-01		RR Es Failed	
	19	SV1 84	0606043-02			
	20	SV1 85	0606013-01			
	21	SV1 86	0606013-01MS			
6/6/06	22	SV1 87	0606013-01MSD	SVINF	6F03035	

Data File : Q:\SVOA\MS1_MD\MD0606\MD060606\SV138956.D Vial: 1
Acq On : 6 Jun 106 9:09 am Operator: VSC
Sample : BPF0041-TUN1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\DFTPP.M
Title : daily instrument eval mix



Peak Apex is scan: 219

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	52.1	151437	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	72.2	209723	PASS
70	69	0	2	0.5	984	PASS
127	198	40	60	54.9	159408	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	290397	PASS
199	198	5	9	6.6	19112	PASS
275	198	10	30	16.8	48680	PASS
365	198	1	100	1.0	3025	PASS
441	443	0	100	88.1	29233	PASS
442	198	40	110	58.2	168920	PASS
443	442	17	23	19.7	33193	PASS

SV138956.D DFTPP.M Thu Jul 20 10:41:27 2006

Response Factor Report SVOA-MS1

Method : C:\HPCHEM\1\METHODS\SV1NF.M
Title : ELEMENT ID: 0606008(SOIL) 0606009(AQUEOUS)
Last Update : Tue Jun 06 16:37:55 2006
Response via : Initial Calibration

Calibration Files
5 =SV138957.D = 50 =SV138960.D
80 =SV138961.D 120 =SV138962.D 160 =SV138963.D

		Compound	5	50	80	120	160	Avg	%RSD	
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)		N-Nitrosodimethylam	0.159	0.194	0.184	0.181	0.202	0.188	0.185	7.20
3)		Pyridine	0.350	0.296	0.329	0.342	0.340	0.338	0.335	8.49
4)	S	2-Fluorophenol (SUR	1.504	1.609	1.663	1.630	1.664	1.668	1.595	4.75
5)		bis(2-Chloroethyl)e	2.047	1.847	1.860	1.791	1.597	1.727	1.847	7.83
6)	S	Phenol-d5 (SURR)	2.032	2.121	2.130	2.047	2.010	1.990	2.056	2.38
7)	M	2-Chlorophenol	1.582	1.550	1.548	1.504	1.473	1.473	1.529	2.67
8)	MC	Phenol	2.717	2.676	2.659	2.540	2.483	2.509	2.614	3.39
9)		Aniline	2.451	2.773	2.746	2.642	2.729	2.630	2.669	3.87
10)	S	2-Chlorophenol-d4(S	1.541	1.509	1.513	1.457	1.430	1.416	1.489	3.22
11)		1,3-Dichlorobenzene	1.511	1.509	1.547	1.488	1.465	1.449	1.495	2.00
12)	MC	1,4-Dichlorobenzene	1.642	1.623	1.562	1.521	1.467	1.467	1.568	4.81
13)	S	1,2 Dichlorobenzene	0.950	0.886	0.861	0.800	0.736	0.716	0.844	10.05
14)		1,2-Dichlorobenzene	1.446	1.436	1.406	1.305	1.162	1.112	1.342	10.04
15)		Benzyl Alcohol	1.086	1.198	1.201	1.148	1.107	1.090	1.143	3.96
16)		bis(2-chloroisoprop	2.720	2.421	2.333	2.191	2.111	2.102	2.370	9.64
17)		2-Methylphenol	1.627	1.469	1.473	1.417	1.399	1.395	1.474	5.18
18)		Acetophenone	1.907	1.867	1.883	1.830	1.814	1.828	1.857	1.71
19)	MP	N-Nitroso-Di-n-Prop	1.175	1.093	1.067	1.013	0.978	0.967	1.069	7.23#
20)		Hexachloroethane	0.637	0.618	0.615	0.580	0.516	0.499	0.589	9.01
21)		3+4-Methylphenol	1.732	1.563	1.549	1.456	1.308	1.245	1.510	10.89
22)	I	Naphthalene-d8	----------ISTD----------							
23)	S	Nitrobenzene-d5 (SU	0.390	0.394	0.396	0.394	0.400	0.403	0.394	1.26
24)		Nitrobenzene	0.399	0.412	0.404	0.405	0.411	0.410	0.407	1.04
25)		Isophorone	0.815	0.795	0.790	0.799	0.816	0.831	0.801	2.21
26)	C	2-Nitrophenol	0.201	0.222	0.223	0.224	0.225	0.228	0.218	4.69
27)		Benzoic Acid		0.210	0.261	0.277	0.292	0.304	0.249	23.54 L 5,10
28)		2,4-Dimethylphenol	0.355	0.341	0.345	0.344	0.346	0.349	0.344	1.68
29)		bis(2-Chloroethoxy)	0.528	0.536	0.534	0.533	0.538	0.539	0.532	1.05
30)	C	2,4-Dichlorophenol	0.252	0.277	0.275	0.276	0.273	0.271	0.267	4.07
31)	M	1,2,4-Trichlorobenz	0.260	0.279	0.277	0.272	0.267	0.267	0.270	2.44
32)		Naphthalene	1.068	1.064	1.049	1.015	0.979	0.955	1.025	3.95
33)		4-Chloroaniline	0.445	0.486	0.475	0.451	0.414	0.386	0.450	7.66
34)	C	Hexachlorobutadiene	0.105	0.107	0.105	0.101	0.096	0.096	0.102	4.09
35)	MC	4-Chloro-3-Methylph	0.273	0.315	0.317	0.316	0.313	0.291	0.303	5.19
36)		2-Methylnaphthalene	0.623	0.654	0.643	0.628	0.612	0.625	0.631	2.08
37)		1-Methylnaphthalene	0.635	0.640	0.625	0.611	0.591	0.613	0.622	2.66
38)	I	Acenaphthene-d10	----------ISTD----------							
39)	P	Hexachlorocyclopent		0.049	0.086	0.098	0.109	0.109	0.080	41.84# L 5,10
40)	C	2,4,6-Trichlorophen	0.313	0.330	0.332	0.332	0.331	0.331	0.326	2.47
41)		2,4,5-Trichlorophen	0.345	0.368	0.365	0.345	0.315	0.311	0.347	6.50
42)	S	2-Fluorobiphenyl (S	1.319	1.255	1.233	1.162	1.094	1.069	1.205	7.26
43)		Biphenyl	1.575	1.452	1.424	1.332	1.211	1.213	1.397	9.52
44)		2-Chloronaphthalene	1.383	1.244	1.243	1.202	1.180	1.214	1.251	4.96
45)		Dimethylphthalate	1.248	1.252	1.263	1.253	1.253	1.260	1.252	0.59
46)		Acenaphthylene	2.088	2.003	1.978	1.896	1.791	1.746	1.938	6.06
47)		2,6-Dinitrotoluene	0.331	0.339	0.338	0.332	0.326	0.331	0.333	1.47
48)		2-Nitroaniline	0.422	0.425	0.415	0.411	0.409	0.413	0.419	1.83
49)	MC	Acenaphthene	1.254	1.192	1.182	1.135	1.093	1.077	1.165	5.07
50)	P	2,4-Dinitrophenol		0.155	0.179	0.194	0.208	0.213	0.177	21.68# L 5,10
51)		Dibenzofuran	1.617	1.628	1.621	1.593	1.573	1.576	1.607	1.45
52)	MP	4-Nitrophenol		0.201	0.208	0.207	0.202	0.206	0.192	13.17# 5
53)		3-Nitroaniline	0.552	0.498	0.512	0.495	0.483	0.483	0.508	4.80
54)	M	2,4-Dinitrotoluene	0.380	0.425	0.435	0.431	0.435	0.438	0.418	5.54

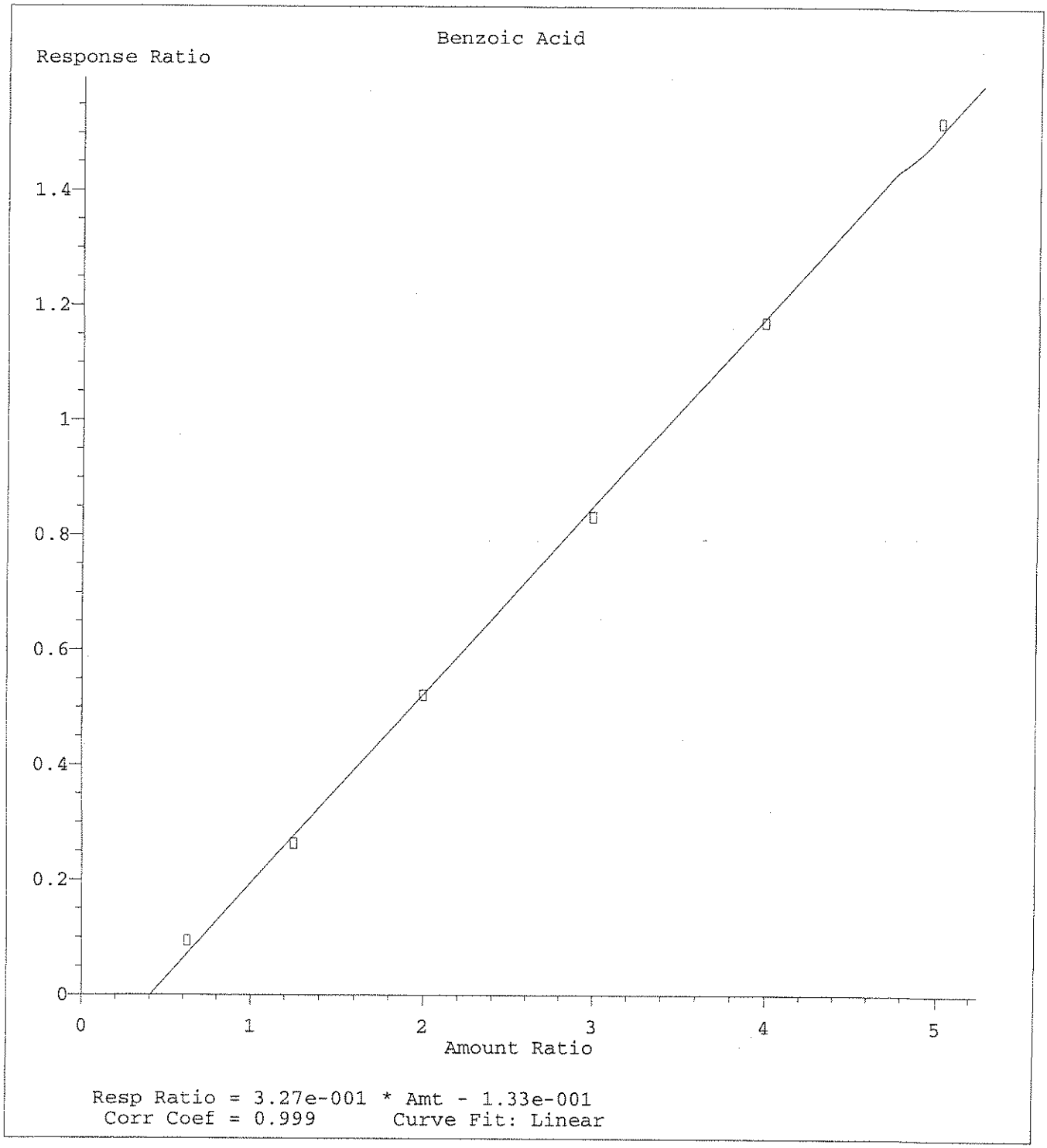
(#) = Out of Range ### Number of calibration levels exceeded format ###
SV1NF.M Tue Jun 06 16:38:33 2006 Page 1

Method : C:\HPCHEM\1\METHODS\SV1NF.M
Title : ELEMENT ID: 0606008(SOIL) 0606009(AQUEOUS)
Last Update : Tue Jun 06 16:37:55 2006
Response via : Initial Calibration

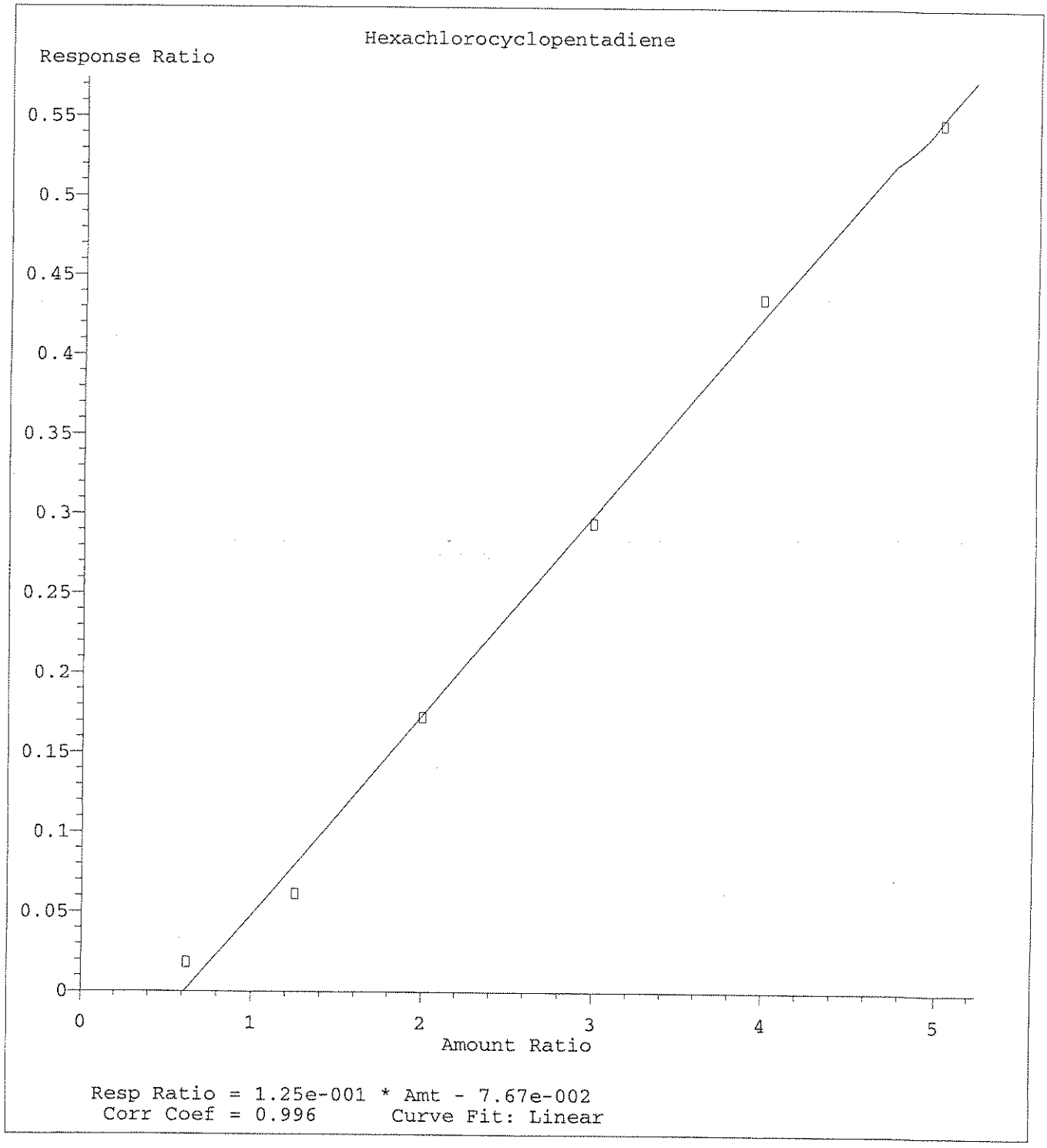
Calibration Files
5 =SV138957.D = 50 =SV138960.D
80 =SV138961.D 120 =SV138962.D 160 =SV138963.D

		Compound	5	50	80	120	160	Avg	%RSD	
55)		Fluorene	1.347	1.289	1.217	1.122	1.047	1.240	9.40	20%
56)		2,3,4,6-Tetrachloro	0.231	0.277	0.292	0.289	0.280	0.281	0.271	7.68	
57)		Diethylphthalate	1.278	1.231	1.241	1.226	1.212	1.204	1.230	1.83	
58)		4-Chloro-phenyl-phe	0.555	0.540	0.501	0.444	0.389	0.560	0.506	13.06	20%
59)	I	Phenanthrene-d10	----------ISTD----------							
60)		4-Nitroaniline	0.305	0.333	0.333	0.331	0.325	0.320	0.323	3.03	
61)		4,6-Dinitro-2-Methy	0.063	0.181	0.186	0.177	0.160	0.163	0.150	27.99	L
62)	C	N-nitrosodiphenylam	0.831	0.806	0.798	0.767	0.721	0.697	0.778	5.99	
63)		Azobenzene	1.389	1.311	1.295	1.285	1.266	1.262	1.310	3.29	
64)	S	2,4,6-Tribromopheno	0.081	0.101	0.102	0.103	0.102	0.103	0.097	8.62	
65)		4-Bromophenyl-pheny	0.197	0.214	0.214	0.212	0.205	0.203	0.207	2.90	
66)		Hexachlorobenzene	0.205	0.228	0.229	0.222	0.216	0.213	0.219	3.76	
67)	MC	Pentachlorophenol		0.090	0.101	0.107	0.114	0.116	0.099	18.11	L 5,10
68)		Phenanthrene	1.294	1.210	1.185	1.175	1.126	1.141	1.195	4.35	
69)		Anthracene	1.292	1.185	1.133	1.087	1.040	1.052	1.157	8.07	
70)		Carbazole	1.259	1.226	1.212	1.177	1.137	1.180	1.204	3.13	
71)		Di-n-butylphthalate	1.647	1.633	1.611	1.565	1.543	1.564	1.597	2.31	
72)	C	Fluoranthene	1.150	1.207	1.188	1.160	1.123	1.094	1.153	3.12	
73)		Benzidine	0.498	0.636	0.667	0.646	0.595	0.584	0.601	8.88	
74)	I	Chrysene-d12	----------ISTD----------							
75)	M	Pyrene	1.737	1.817	1.868	1.860	1.895	1.877	1.813	4.06	
76)	S	Terphenyl-d14 (SURR	1.040	1.118	1.088	1.071	1.079	1.044	1.070	2.81	
77)		Butylbenzylphthalat	0.968	0.918	0.904	0.881	0.890	0.885	0.909	3.01	
78)		3,3'-Dichlorobenzid	0.512	0.547	0.541	0.527	0.512	0.516	0.525	2.48	
79)		Benzo(a)anthracene	1.459	1.565	1.587	1.600	1.646	1.608	1.555	4.45	
80)		Chrysene	1.288	1.156	1.140	1.157	1.179	1.186	1.184	3.88	
81)		bis(2-Ethylhexyl)ph	1.169	0.819	0.834	0.859	0.934	0.921	0.918	12.42	
82)	I	Perylene-d12	----------ISTD----------							
83)	C	Di-n-octylphthalate	2.440	2.419	2.521	2.538	2.584	2.560	2.483	3.05	
84)		Benzo(b)fluoranthen	1.449	2.037	1.878	1.885	1.981	1.758	1.789	10.90	
85)		Benzo(k)fluoranthen	1.248	0.926	1.007	0.845	0.731	0.665	1.000	25.16	Q
86)	C	Benzo(a)pyrene	1.339	1.494	1.543	1.546	1.530	1.475	1.465	5.51	
87)		Indeno(1,2,3-Cd)Pyr	1.063	1.271	1.319	1.363	1.161	1.025	1.189	10.31	
88)		Dibenzo(a,h)Anthrac	0.882	1.062	1.111	1.155	1.035	0.930	1.010	9.58	
89)		Benzo(g,h,i)perylen	0.893	1.043	1.088	1.144	0.851	0.982	0.989	10.93	20%

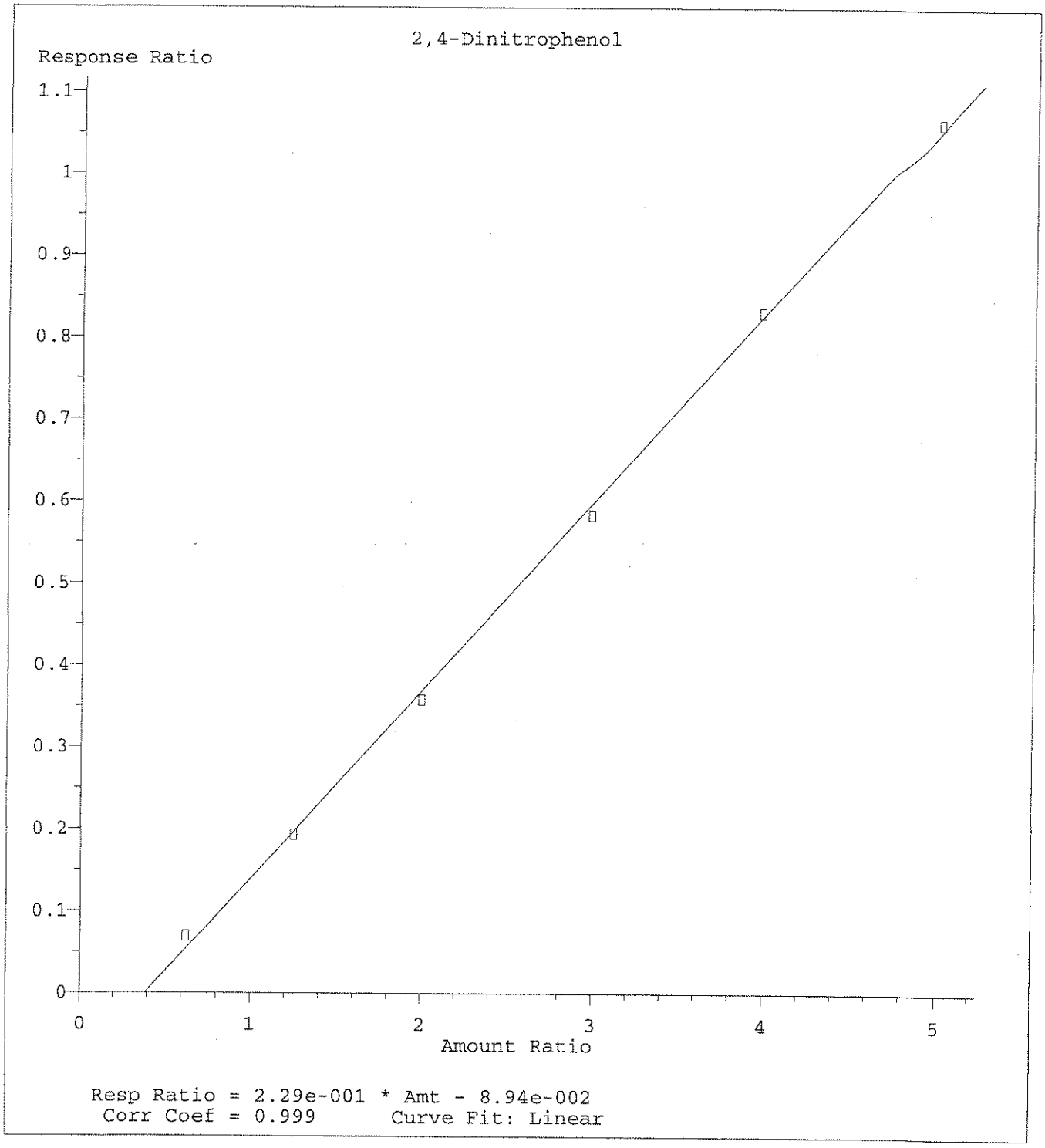
(#) = Out of Range ### Number of calibration levels exceeded format ###
SV1NF.M Tue Jun 06 16:38:40 2006



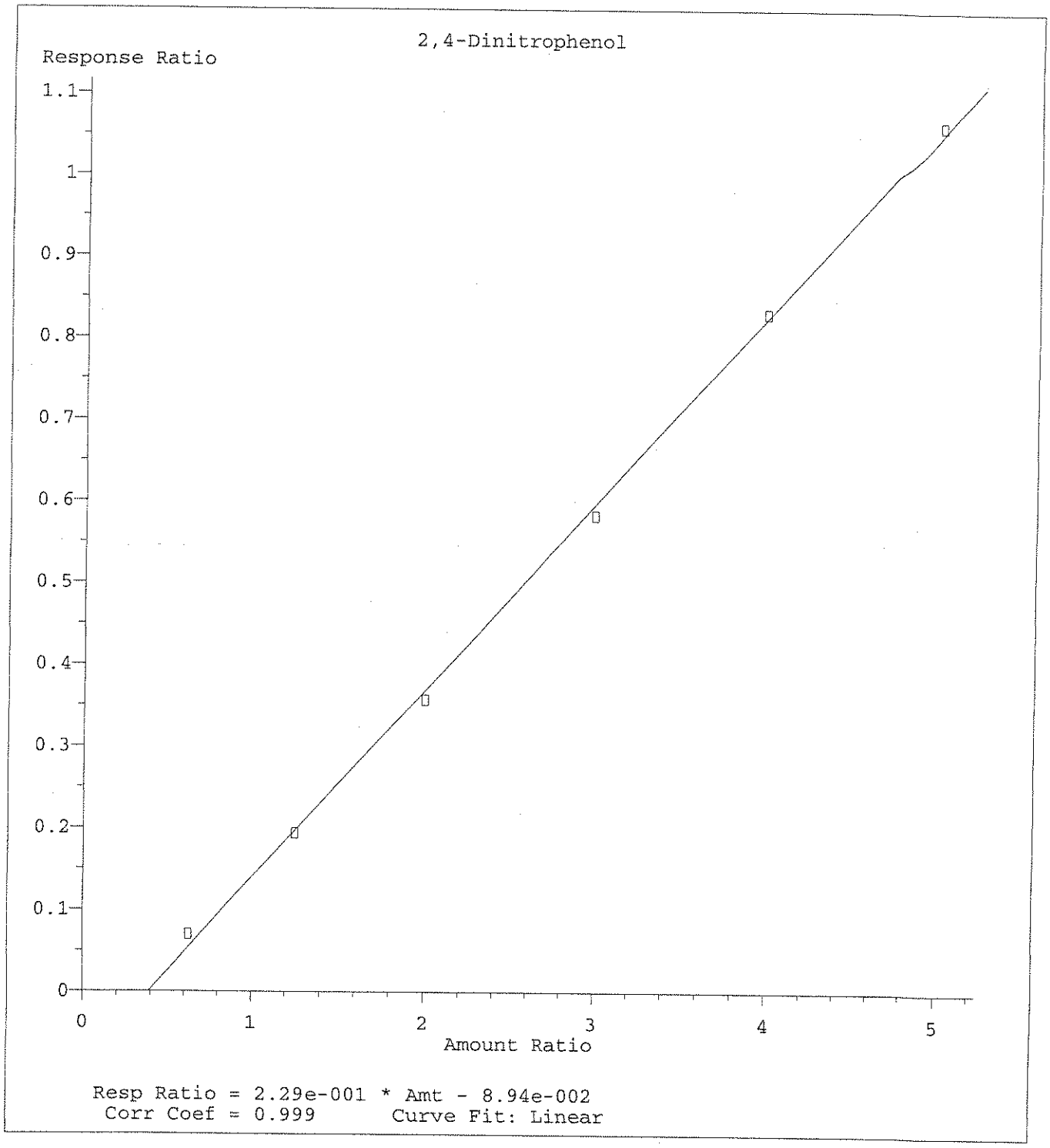
Method Name: C:\HPCHEM\1\METHODS\SV1NF.M
Calibration Table Last Updated: Wed Jul 19 20:45:25 2006



Method Name: C:\HPCHEM\1\METHODS\SV1NF.M
Calibration Table Last Updated: Wed Jul 19 20:45:25 2006



Method Name: C:\HPCHEM\1\METHODS\SV1NF.M
Calibration Table Last Updated: Wed Jul 19 20:45:25 2006



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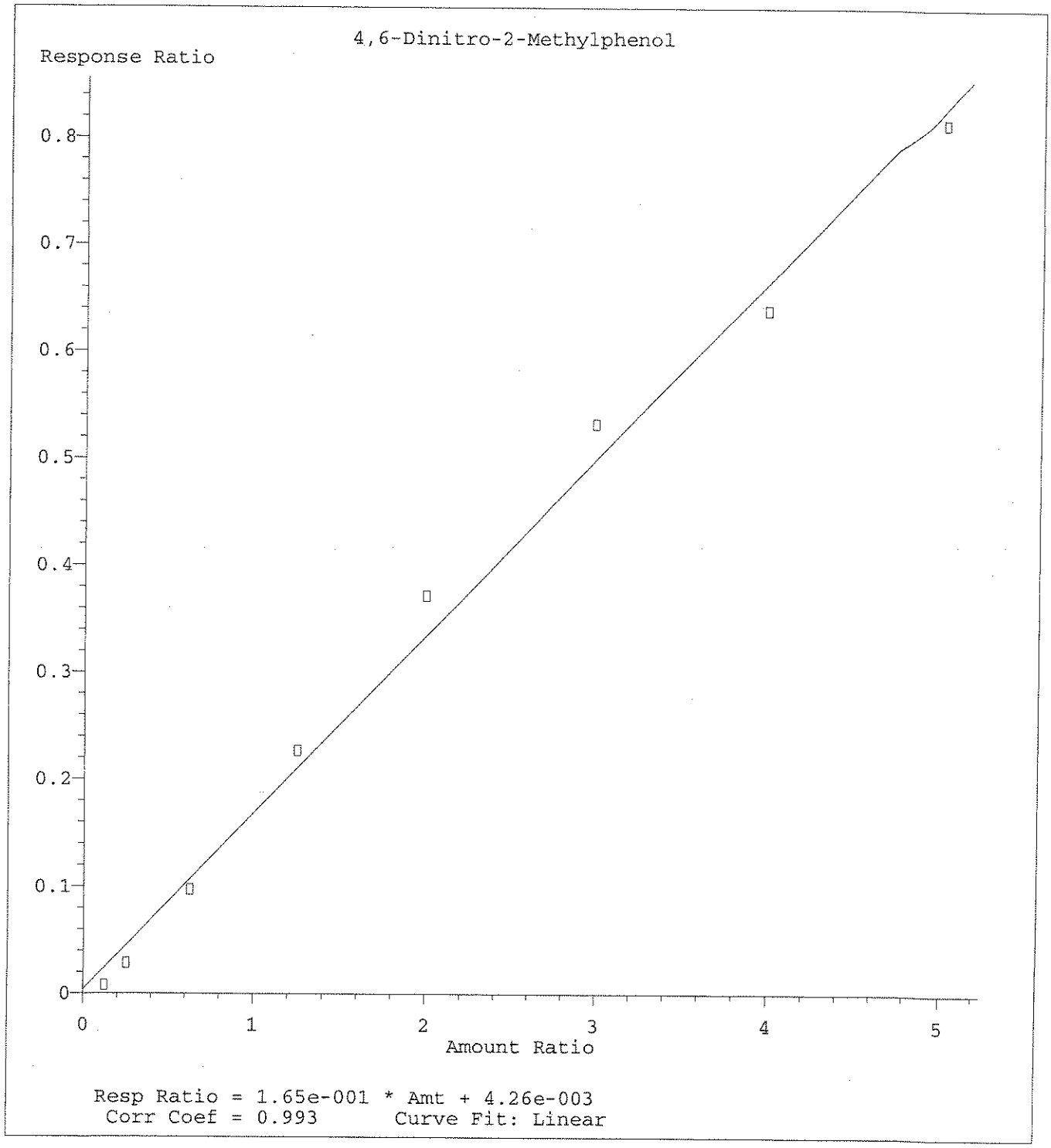
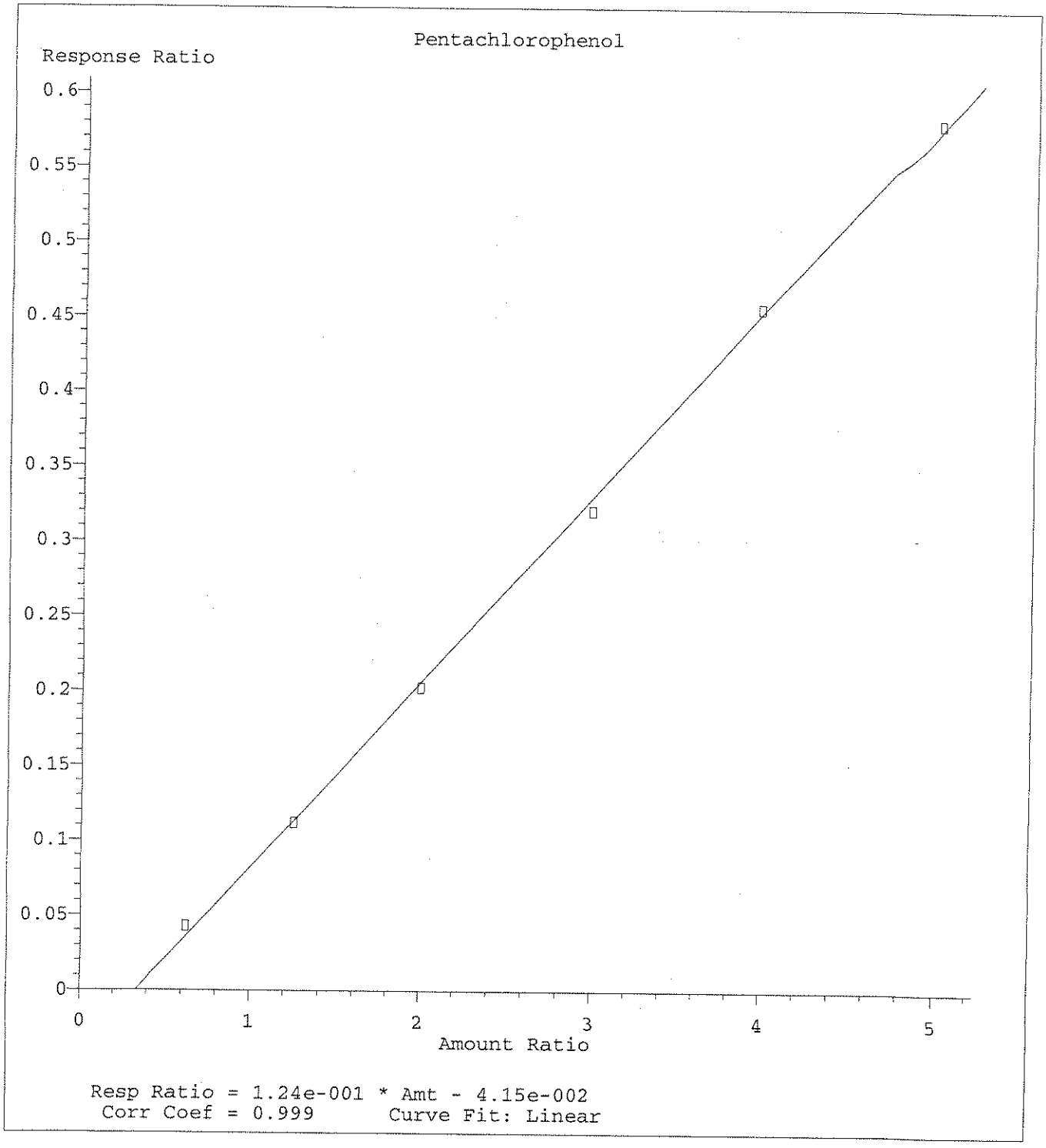
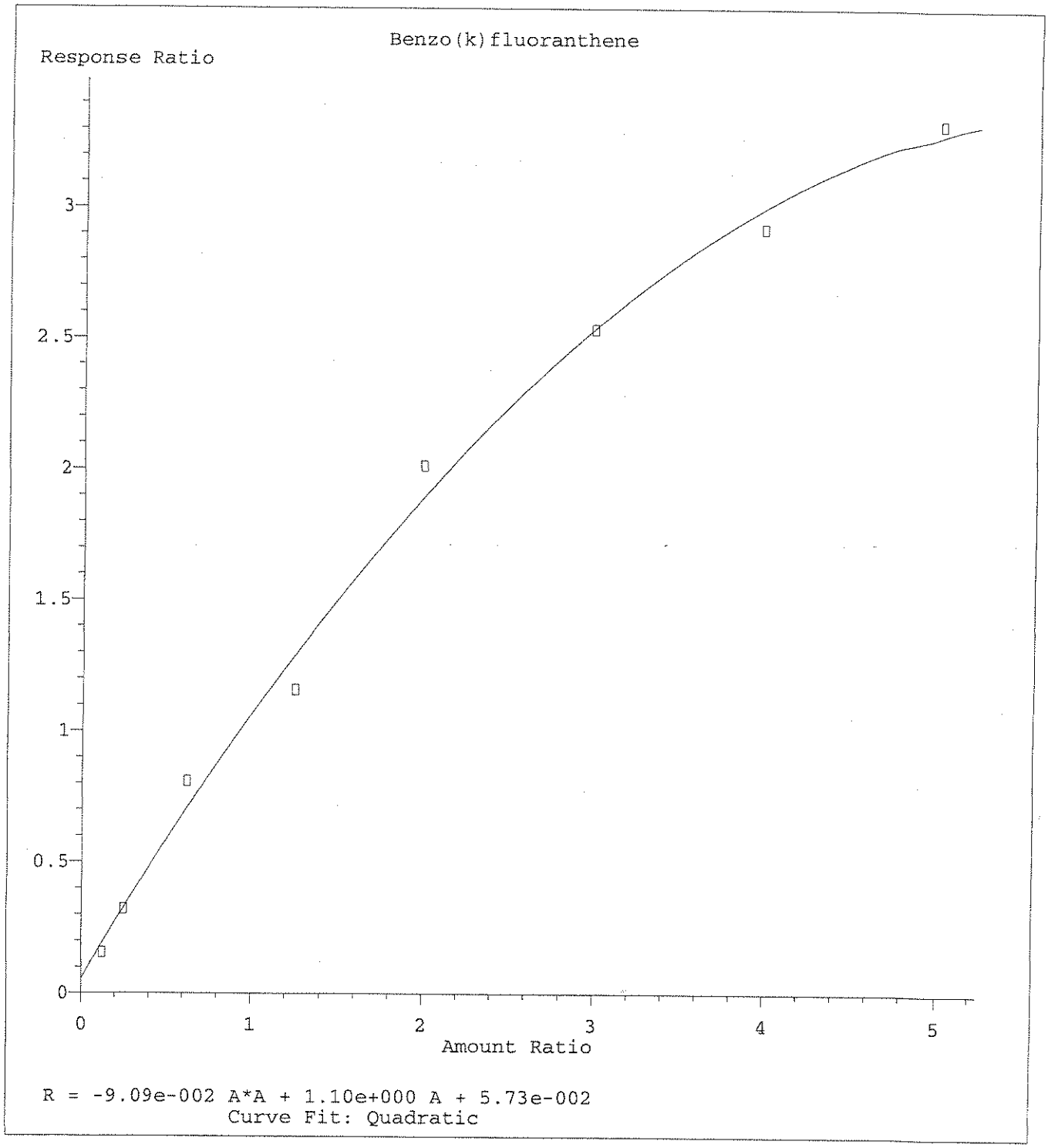
Calibration Table Last Updated: Wed Jul 19 20:45:25 2006



Method Name: C:\HPCHEM\1\METHODS\SV1NF.M
Calibration Table Last Updated: Wed Jul 19 20:45:25 2006



Method Name: C:\HPCHEM\1\METHODS\SV1NF.M
Calibration Table Last Updated: Wed Jul 19 20:45:25 2006



Method Name: C:\HPCHEM\1\METHODS\SV1NF.M
Calibration Table Last Updated: Wed Jul 19 20:45:25 2006

ESS Organic Preparation Logbook

Project #: 0606078
Prep Date: 6/7/06
Batch ID: SXBF60724
Extraction Method: 3541

Surrogate ID#
A 6E26033
B 6F93056
C NA

Matrix Spike ID#
D 6E24056
E NA
F

Analytical Matrix: soil
Extraction Time:
Start: 12:30
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
SXBF60724-B	20.0	1 A	NA	1	1	NA	6/7/06	40	NA	NA		EM	NMT	BC
-B1	20.0	1 A	|	1	1									
-B/D	20.0	1 A	|	1	1									
0606078-01	19.9	1 A	NA	1	1									
-02	20.2	1 A		1	1									
-03	20.4	1 A		1	1									
-04	19.8	1 A		1	1									
-05	19.9	1 A	NA	5	1									
-05M	20.7	1 A	|	5	1									
-05M/D	20.4	1 A	|	5	1									
-06	20.1	1 A	NA	1	1									
-07	21.0	1 A		1	1									
-08	19.2	1 A		1	1									
-09	19.1	1 A		1	1									
-10	19.9	1 A		1	1									
-11	19.8	1 A		1	1									
-12	20.2	1 A		1	1									
-14	19.2	1 A		1	1									
-15	21.0	1 A		1	1									
-16	21.0	1 A		1	1									
Em 6/7/06 -17	19.2	1 A	NA	1	1									
LLx ~~SXBF60724~~-BS	20.0	1 B	0.025	1	1									
-B/D	20.0	1 B	0.025	1	1	NA	6/7/06	40	NA	NA		EM	NMT	BC

436

Acid Washed: Y / (N) H2SO4 ID# NA
Cu Cleaned: Y / (N) Cu ID# NA
Florisiled: Y / (N) Lot# NA
Silica Column/Carbon prep: Y / (N) Lot # NA

CH_2Cl_2 lot # CQ237
Hexane lot# NA
Acetone lot# NA
NaOH ID# NA
Na_2SO_4 ID# PR IIC5300612

Analysis Performed
PCB ☐
B/N SVOA ☐
SVOA ☑
LL PAH ☐
PEST ☐
TPH/GC ☐
BIS-2 ☐
PAH ☐

Prepared By: EM
Glasswool: MEDD60806A
Method #(s): 8270
**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A

BATCH ID/Test: BF60724

BATCH ID/Test:

Page

057

Semi-Volatile Organics Data Package

Low Level PAH (SIMS)

Semi-Volatile Organics
Sample Data

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI005
Date Sampled: 06/05/06 15:30
Percent Solids: 53
Initial Volume: 20.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-02
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte		Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene		ND	ug/Kg dry	46.7	1	06/13/06
2-Methylnaphthalene		ND	ug/Kg dry	46.7	1	06/13/06
Acenaphthene		ND	ug/Kg dry	46.7	1	06/13/06
Acenaphthylene		ND	ug/Kg dry	46.7	1	06/13/06
Anthracene		**63.5**	ug/Kg dry	46.7	1	06/13/06
Benzo(a)anthracene		**234**	ug/Kg dry	46.7	1	06/13/06
Benzo(a)pyrene		**235**	ug/Kg dry	46.7	1	06/13/06
Benzo(b)fluoranthene		**289**	ug/Kg dry	46.7	1	06/13/06
Benzo(g,h,i)perylene		**70.1**	ug/Kg dry	46.7	1	06/13/06
Benzo(k)fluoranthene		**233**	ug/Kg dry	46.7	1	06/13/06
Chrysene		**254**	ug/Kg dry	46.7	1	06/13/06
Dibenzo(a,h)Anthracene		ND	ug/Kg dry	46.7	1	06/13/06
Fluoranthene	E	**1020**	ug/Kg dry	46.7	1	06/13/06
Fluorene		ND	ug/Kg dry	46.7	1	06/13/06
Indeno(1,2,3-cd)Pyrene		**71.0**	ug/Kg dry	46.7	1	06/13/06
Naphthalene		ND	ug/Kg dry	46.7	1	06/13/06
Phenanthrene		**342**	ug/Kg dry	46.7	1	06/13/06
Pyrene		**441**	ug/Kg dry	46.7	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*55 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*67 %*		*30-130*
Surrogate: Nitrobenzene-d5	*60 %*		*30-130*
Surrogate: p-Terphenyl-d14	*87 %*		*30-130*

REVISED

JUL 24 2006

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI005
Date Sampled: 06/05/06 15:30
Percent Solids: 53
Initial Volume: 20.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-02RE1
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	187	4	06/14/06
2-Methylnaphthalene	ND	ug/Kg dry	187	4	06/14/06
Acenaphthene	ND	ug/Kg dry	187	4	06/14/06
Acenaphthylene	ND	ug/Kg dry	187	4	06/14/06
Anthracene	ND	ug/Kg dry	187	4	06/14/06
Benzo(a)anthracene	**205**	ug/Kg dry	187	4	06/14/06
Benzo(a)pyrene	ND	ug/Kg dry	187	4	06/14/06
Benzo(b)fluoranthene	**310**	ug/Kg dry	187	4	06/14/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	187	4	06/14/06
Benzo(k)fluoranthene	**217**	ug/Kg dry	187	4	06/14/06
Chrysene	**228**	ug/Kg dry	187	4	06/14/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	187	4	06/14/06
Fluoranthene	**829**	ug/Kg dry	187	4	06/14/06
Fluorene	ND	ug/Kg dry	187	4	06/14/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	187	4	06/14/06
Naphthalene	ND	ug/Kg dry	187	4	06/14/06
Phenanthrene	**299**	ug/Kg dry	187	4	06/14/06
Pyrene	**445**	ug/Kg dry	187	4	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*57 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*66 %*		*30-130*
Surrogate: Nitrobenzene-d5	*57 %*		*30-130*
Surrogate: p-Terphenyl-d14	*107 %*		*30-130*

REVISED

JUL 24 2006

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI004
Date Sampled: 06/05/06 15:50
Percent Solids: 82
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-03
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte		Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene		ND	ug/Kg dry	29.9	1	06/13/06
2-Methylnaphthalene		ND	ug/Kg dry	29.9	1	06/13/06
Acenaphthene		ND	ug/Kg dry	29.9	1	06/13/06
Acenaphthylene		ND	ug/Kg dry	29.9	1	06/13/06
Anthracene		ND	ug/Kg dry	29.9	1	06/13/06
Benzo(a)anthracene		**109**	ug/Kg dry	29.9	1	06/13/06
Benzo(a)pyrene		**132**	ug/Kg dry	29.9	1	06/13/06
Benzo(b)fluoranthene		**191**	ug/Kg dry	29.9	1	06/13/06
Benzo(g,h,i)perylene		**40.1**	ug/Kg dry	29.9	1	06/13/06
Benzo(k)fluoranthene		**139**	ug/Kg dry	29.9	1	06/13/06
Chrysene		**132**	ug/Kg dry	29.9	1	06/13/06
Dibenzo(a,h)Anthracene		ND	ug/Kg dry	29.9	1	06/13/06
Fluoranthene	E	**493**	ug/Kg dry	29.9	1	06/13/06
Fluorene		ND	ug/Kg dry	29.9	1	06/13/06
Indeno(1,2,3-cd)Pyrene		**41.8**	ug/Kg dry	29.9	1	06/13/06
Naphthalene		ND	ug/Kg dry	29.9	1	06/13/06
Phenanthrene		**120**	ug/Kg dry	29.9	1	06/13/06
Pyrene		**207**	ug/Kg dry	29.9	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*68 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*79 %*		*30-130*
Surrogate: Nitrobenzene-d5	*76 %*		*30-130*
Surrogate: p-Terphenyl-d14	*86 %*		*30-130*

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Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI004
Date Sampled: 06/05/06 15:50
Percent Solids: 82
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-03RE1
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	59.8	2	06/14/06
2-Methylnaphthalene	ND	ug/Kg dry	59.8	2	06/14/06
Acenaphthene	ND	ug/Kg dry	59.8	2	06/14/06
Acenaphthylene	ND	ug/Kg dry	59.8	2	06/14/06
Anthracene	ND	ug/Kg dry	59.8	2	06/14/06
Benzo(a)anthracene	**69.3**	ug/Kg dry	59.8	2	06/14/06
Benzo(a)pyrene	**83.7**	ug/Kg dry	59.8	2	06/14/06
Benzo(b)fluoranthene	**120**	ug/Kg dry	59.8	2	06/14/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	59.8	2	06/14/06
Benzo(k)fluoranthene	**92.1**	ug/Kg dry	59.8	2	06/14/06
Chrysene	**84.9**	ug/Kg dry	59.8	2	06/14/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	59.8	2	06/14/06
Fluoranthene	**219**	ug/Kg dry	59.8	2	06/14/06
Fluorene	ND	ug/Kg dry	59.8	2	06/14/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	59.8	2	06/14/06
Naphthalene	ND	ug/Kg dry	59.8	2	06/14/06
Phenanthrene	**75.3**	ug/Kg dry	59.8	2	06/14/06
Pyrene	**164**	ug/Kg dry	59.8	2	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*53 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*55 %*		*30-130*
Surrogate: Nitrobenzene-d5	*51 %*		*30-130*
Surrogate: p-Terphenyl-d14	*88 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI208
Date Sampled: 06/06/06 11:17
Percent Solids: 89
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-07
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	26.8	1	06/13/06
2-Methylnaphthalene	ND	ug/Kg dry	26.8	1	06/13/06
Acenaphthene	ND	ug/Kg dry	26.8	1	06/13/06
Acenaphthylene	ND	ug/Kg dry	26.8	1	06/13/06
Anthracene	ND	ug/Kg dry	26.8	1	06/13/06
Benzo(a)anthracene	**61.5**	ug/Kg dry	26.8	1	06/13/06
Benzo(a)pyrene	**71.2**	ug/Kg dry	26.8	1	06/13/06
Benzo(b)fluoranthene	**86.7**	ug/Kg dry	26.8	1	06/13/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	26.8	1	06/13/06
Benzo(k)fluoranthene	**72.8**	ug/Kg dry	26.8	1	06/13/06
Chrysene	**87.7**	ug/Kg dry	26.8	1	06/13/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	26.8	1	06/13/06
Fluoranthene	**196**	ug/Kg dry	26.8	1	06/13/06
Fluorene	ND	ug/Kg dry	26.8	1	06/13/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	26.8	1	06/13/06
Naphthalene	ND	ug/Kg dry	26.8	1	06/13/06
Phenanthrene	**108**	ug/Kg dry	26.8	1	06/13/06
Pyrene	**133**	ug/Kg dry	26.8	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*69 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*86 %*		*30-130*
Surrogate: Nitrobenzene-d5	*73 %*		*30-130*
Surrogate: p-Terphenyl-d14	*156 %*	+	*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI003
Date Sampled: 06/06/06 09:16
Percent Solids: 88
Initial Volume: 19.1
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-09
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte		Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene		ND	ug/Kg dry	29.7	1	06/13/06
2-Methylnaphthalene		ND	ug/Kg dry	29.7	1	06/13/06
Acenaphthene		ND	ug/Kg dry	29.7	1	06/13/06
Acenaphthylene		ND	ug/Kg dry	29.7	1	06/13/06
Anthracene		ND	ug/Kg dry	29.7	1	06/13/06
Benzo(a)anthracene		**150**	ug/Kg dry	29.7	1	06/13/06
Benzo(a)pyrene		**184**	ug/Kg dry	29.7	1	06/13/06
Benzo(b)fluoranthene		**273**	ug/Kg dry	29.7	1	06/13/06
Benzo(g,h,i)perylene		**85.7**	ug/Kg dry	29.7	1	06/13/06
Benzo(k)fluoranthene		**191**	ug/Kg dry	29.7	1	06/13/06
Chrysene		**217**	ug/Kg dry	29.7	1	06/13/06
Dibenzo(a,h)Anthracene		**32.1**	ug/Kg dry	29.7	1	06/13/06
Fluoranthene	E	**734**	ug/Kg dry	29.7	1	06/13/06
Fluorene		ND	ug/Kg dry	29.7	1	06/13/06
Indeno(1,2,3-cd)Pyrene		**80.9**	ug/Kg dry	29.7	1	06/13/06
Naphthalene		ND	ug/Kg dry	29.7	1	06/13/06
Phenanthrene		**183**	ug/Kg dry	29.7	1	06/13/06
Pyrene	E	**498**	ug/Kg dry	29.7	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*72 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*85 %*		*30-130*
Surrogate: Nitrobenzene-d5	*79 %*		*30-130*
Surrogate: p-Terphenyl-d14	*162 %*	+	*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI003
Date Sampled: 06/06/06 09:16
Percent Solids: 88
Initial Volume: 19.1
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-09RE1
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	119	4	06/14/06
2-Methylnaphthalene	ND	ug/Kg dry	119	4	06/14/06
Acenaphthene	ND	ug/Kg dry	119	4	06/14/06
Acenaphthylene	ND	ug/Kg dry	119	4	06/14/06
Anthracene	ND	ug/Kg dry	119	4	06/14/06
Benzo(a)anthracene	**126**	ug/Kg dry	119	4	06/14/06
Benzo(a)pyrene	**159**	ug/Kg dry	119	4	06/14/06
Benzo(b)fluoranthene	**224**	ug/Kg dry	119	4	06/14/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	119	4	06/14/06
Benzo(k)fluoranthene	**236**	ug/Kg dry	119	4	06/14/06
Chrysene	**188**	ug/Kg dry	119	4	06/14/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	119	4	06/14/06
Fluoranthene	**419**	ug/Kg dry	119	4	06/14/06
Fluorene	ND	ug/Kg dry	119	4	06/14/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	119	4	06/14/06
Naphthalene	ND	ug/Kg dry	119	4	06/14/06
Phenanthrene	**152**	ug/Kg dry	119	4	06/14/06
Pyrene	**283**	ug/Kg dry	119	4	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*75 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*83 %*		*30-130*
Surrogate: Nitrobenzene-d5	*72 %*		*30-130*
Surrogate: p-Terphenyl-d14	*104 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI209
Date Sampled: 06/06/06 13:45
Percent Solids: 92
Initial Volume: 19.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-14
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	28.3	1	06/13/06
2-Methylnaphthalene	ND	ug/Kg dry	28.3	1	06/13/06
Acenaphthene	ND	ug/Kg dry	28.3	1	06/13/06
Acenaphthylene	ND	ug/Kg dry	28.3	1	06/13/06
Anthracene	ND	ug/Kg dry	28.3	1	06/13/06
Benzo(a)anthracene	**73.6**	ug/Kg dry	28.3	1	06/13/06
Benzo(a)pyrene	**92.3**	ug/Kg dry	28.3	1	06/13/06
Benzo(b)fluoranthene	**131**	ug/Kg dry	28.3	1	06/13/06
Benzo(g,h,i)perylene	**28.3**	ug/Kg dry	28.3	1	06/13/06
Benzo(k)fluoranthene	**86.1**	ug/Kg dry	28.3	1	06/13/06
Chrysene	**102**	ug/Kg dry	28.3	1	06/13/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	28.3	1	06/13/06
Fluoranthene	**289**	ug/Kg dry	28.3	1	06/13/06
Fluorene	ND	ug/Kg dry	28.3	1	06/13/06
Indeno(1,2,3-cd)Pyrene	**30.0**	ug/Kg dry	28.3	1	06/13/06
Naphthalene	ND	ug/Kg dry	28.3	1	06/13/06
Phenanthrene	**77.0**	ug/Kg dry	28.3	1	06/13/06
Pyrene	**175**	ug/Kg dry	28.3	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*72 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*88 %*		*30-130*
Surrogate: Nitrobenzene-d5	*82 %*		*30-130*
Surrogate: p-Terphenyl-d14	*130 %*		*30-130*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI207
Date Sampled: 06/06/06 10:14
Percent Solids: 86
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-15
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/07/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	27.7	1	06/13/06
2-Methylnaphthalene	ND	ug/Kg dry	27.7	1	06/13/06
Acenaphthene	ND	ug/Kg dry	27.7	1	06/13/06
Acenaphthylene	ND	ug/Kg dry	27.7	1	06/13/06
Anthracene	ND	ug/Kg dry	27.7	1	06/13/06
Benzo(a)anthracene	ND	ug/Kg dry	27.7	1	06/13/06
Benzo(a)pyrene	ND	ug/Kg dry	27.7	1	06/13/06
Benzo(b)fluoranthene	ND	ug/Kg dry	27.7	1	06/13/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	27.7	1	06/13/06
Benzo(k)fluoranthene	ND	ug/Kg dry	27.7	1	06/13/06
Chrysene	ND	ug/Kg dry	27.7	1	06/13/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	27.7	1	06/13/06
Fluoranthene	ND	ug/Kg dry	27.7	1	06/13/06
Fluorene	ND	ug/Kg dry	27.7	1	06/13/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	27.7	1	06/13/06
Naphthalene	ND	ug/Kg dry	27.7	1	06/13/06
Phenanthrene	ND	ug/Kg dry	27.7	1	06/13/06
Pyrene	ND	ug/Kg dry	27.7	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*73 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*85 %*		*30-130*
Surrogate: Nitrobenzene-d5	*82 %*		*30-130*
Surrogate: p-Terphenyl-d14	*158 %*	+	*30-130*

Semi-Volatile Organics Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BF60724 - 3541										
Fluorene	9310	3830	ug/Kg dry	7670	ND	121	40-140			
Indeno(1,2,3-cd)Pyrene	8090	3830	ug/Kg dry	7670	2010	79	40-140			
Naphthalene	8540	3830	ug/Kg dry	7670	ND	111	40-140			
Phenanthrene	15000	3830	ug/Kg dry	7670	7880	93	40-140			
Pyrene	17300	3830	ug/Kg dry	7670	8410	116	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*6150*		ug/Kg dry	*7670*		*80*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*9370*		ug/Kg dry	*7670*		*122*	*30-130*			
Surrogate: Nitrobenzene-d5	*7830*		ug/Kg dry	*7670*		*102*	*30-130*			
Surrogate: p-Terphenyl-d14	*11600*		ug/Kg dry	*7670*		*151*	*30-130*			+
Matrix Spike Dup Source: 0606078-05										
2-Methylnaphthalene	7870	3890	ug/Kg dry	7780	ND	101	40-140	9	30	
Acenaphthene	8950	3890	ug/Kg dry	7780	ND	115	40-140	0.9	30	
Acenaphthylene	8250	3890	ug/Kg dry	7780	ND	106	40-140	5	30	
Anthracene	10100	3890	ug/Kg dry	7780	1820	106	40-140	0.9	30	
Benzo(a)anthracene	11900	3890	ug/Kg dry	7780	3880	103	40-140	7	30	
Benzo(a)pyrene	11800	3890	ug/Kg dry	7780	4140	98	40-140	13	30	
Benzo(b)fluoranthene	15100	3890	ug/Kg dry	7780	5810	119	40-140	7	30	
Benzo(g,h,i)perylene	7070	3890	ug/Kg dry	7780	1960	66	40-140	9	30	
Benzo(k)fluoranthene	10900	3890	ug/Kg dry	7780	3730	92	40-140	11	30	
Chrysene	11800	3890	ug/Kg dry	7780	4440	95	40-140	7	30	
Dibenzo(a,h)Anthracene	7220	3890	ug/Kg dry	7780	ND	93	40-140	7	30	
Fluoranthene	17200	3890	ug/Kg dry	7780	10300	89	40-140	19	30	
Fluorene	9140	3890	ug/Kg dry	7780	ND	117	40-140	3	30	
Indeno(1,2,3-cd)Pyrene	7740	3890	ug/Kg dry	7780	2010	74	40-140	7	30	
Naphthalene	7610	3890	ug/Kg dry	7780	ND	98	40-140	12	30	
Phenanthrene	14600	3890	ug/Kg dry	7780	7880	86	40-140	8	30	
Pyrene	17600	3890	ug/Kg dry	7780	8410	118	40-140	2	30	
Surrogate: 1,2-Dichlorobenzene-d4	*5940*		ug/Kg dry	*7780*		*76*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*8920*		ug/Kg dry	*7780*		*115*	*30-130*			
Surrogate: Nitrobenzene-d5	*7720*		ug/Kg dry	*7780*		*99*	*30-130*			
Surrogate: p-Terphenyl-d14	*12200*		ug/Kg dry	*7780*		*157*	*30-130*			+
8270C(SIM) Polynuclear Aromatic Hydrocarbons										
Batch BF61518 - 3541										
Blank										
1-Methylnaphthalene	ND	25.0	ug/Kg wet							
2-Methylnaphthalene	ND	25.0	ug/Kg wet							
Acenaphthene	ND	25.0	ug/Kg wet							
Acenaphthylene	ND	25.0	ug/Kg wet							
Anthracene	ND	25.0	ug/Kg wet							
Benzo(a)anthracene	ND	25.0	ug/Kg wet							
Benzo(a)pyrene	ND	25.0	ug/Kg wet							
Benzo(b)fluoranthene	ND	25.0	ug/Kg wet							
Benzo(g,h,i)perylene	ND	25.0	ug/Kg wet							
Benzo(k)fluoranthene	ND	25.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C(SIM) Polynuclear Aromatic Hydrocarbons										
Batch BF61518 - 3541										
Chrysene	ND	25.0	ug/Kg wet							
Dibenzo(a,h)Anthracene	ND	25.0	ug/Kg wet							
Fluoranthene	ND	25.0	ug/Kg wet							
Fluorene	ND	25.0	ug/Kg wet							
Indeno(1,2,3-cd)Pyrene	ND	25.0	ug/Kg wet							
Naphthalene	ND	25.0	ug/Kg wet							
Phenanthrene	ND	25.0	ug/Kg wet							
Pyrene	ND	25.0	ug/Kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*4670*		ug/Kg wet	*5000*		*93*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*5020*		ug/Kg wet	*5000*		*100*	*30-130*			
Surrogate: Nitrobenzene-d5	*4830*		ug/Kg wet	*5000*		*97*	*30-130*			
Surrogate: p-Terphenyl-d14	*12000*		ug/Kg wet	*5000*		*240*	*30-130*			+
LCS										
2-Methylnaphthalene	129	25.0	ug/Kg wet	125		103	40-140			
Acenaphthene	128	25.0	ug/Kg wet	125		102	40-140			
Acenaphthylene	124	25.0	ug/Kg wet	125		99	40-140			
Anthracene	142	25.0	ug/Kg wet	125		114	40-140			
Benzo(a)anthracene	140	25.0	ug/Kg wet	125		112	40-140			
Benzo(a)pyrene	142	25.0	ug/Kg wet	125		114	40-140			
Benzo(b)fluoranthene	152	25.0	ug/Kg wet	125		122	40-140			
Benzo(g,h,i)perylene	104	25.0	ug/Kg wet	125		83	40-140			
Benzo(k)fluoranthene	150	25.0	ug/Kg wet	125		120	40-140			
Chrysene	141	25.0	ug/Kg wet	125		113	40-140			
Dibenzo(a,h)Anthracene	109	25.0	ug/Kg wet	125		87	40-140			
Fluoranthene	154	25.0	ug/Kg wet	125		123	40-140			
Fluorene	136	25.0	ug/Kg wet	125		109	40-140			
Indeno(1,2,3-cd)Pyrene	108	25.0	ug/Kg wet	125		86	40-140			
Naphthalene	138	25.0	ug/Kg wet	125		110	40-140			
Phenanthrene	131	25.0	ug/Kg wet	125		105	40-140			
Pyrene	162	25.0	ug/Kg wet	125		130	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*126*		ug/Kg wet	*125*		*101*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*128*		ug/Kg wet	*125*		*102*	*30-130*			
Surrogate: Nitrobenzene-d5	*116*		ug/Kg wet	*125*		*93*	*30-130*			
Surrogate: p-Terphenyl-d14	*156*		ug/Kg wet	*125*		*125*	*30-130*			
LCS Dup										
2-Methylnaphthalene	123	25.0	ug/Kg wet	125		98	40-140	5	30	
Acenaphthene	124	25.0	ug/Kg wet	125		99	40-140	3	30	
Acenaphthylene	123	25.0	ug/Kg wet	125		98	40-140	1	30	
Anthracene	134	25.0	ug/Kg wet	125		107	40-140	6	30	
Benzo(a)anthracene	134	25.0	ug/Kg wet	125		107	40-140	5	30	
Benzo(a)pyrene	137	25.0	ug/Kg wet	125		110	40-140	4	30	
Benzo(b)fluoranthene	146	25.0	ug/Kg wet	125		117	40-140	4	30	
Benzo(g,h,i)perylene	102	25.0	ug/Kg wet	125		82	40-140	1	30	
Benzo(k)fluoranthene	152	25.0	ug/Kg wet	125		122	40-140	2	30	
Chrysene	138	25.0	ug/Kg wet	125		110	40-140	3	30	

450

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C(SIM) Polynuclear Aromatic Hydrocarbons										
Batch BF61518 - 3541										
Dibenzo(a,h)Anthracene	108	25.0	ug/Kg wet	125		86	40-140	1	30	
Fluoranthene	132	25.0	ug/Kg wet	125		106	40-140	15	30	
Fluorene	130	25.0	ug/Kg wet	125		104	40-140	5	30	
Indeno(1,2,3-cd)Pyrene	104	25.0	ug/Kg wet	125		83	40-140	4	30	
Naphthalene	136	25.0	ug/Kg wet	125		109	40-140	0.9	30	
Phenanthrene	123	25.0	ug/Kg wet	125		98	40-140	7	30	
Pyrene	150	25.0	ug/Kg wet	125		120	40-140	8	30	
Surrogate: 1,2-Dichlorobenzene-d4	*154*		ug/Kg wet	*125*		*123*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*130*		ug/Kg wet	*125*		*104*	*30-130*			
Surrogate: Nitrobenzene-d5	*120*		ug/Kg wet	*125*		*96*	*30-130*			
Surrogate: p-Terphenyl-d14	*154*		ug/Kg wet	*125*		*123*	*30-130*			

Semi-Volatile Organics Calibration Data

ANALYSIS SEQUENCE

BPF0076

Instrument: SVOAMS2

Calibnration ID: UNASSIGNED PAH20X

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0076-TUN1	QC		1		6E12106		
BPF0076-CAL1	QC		2		6E03046	6D26044	
BPF0076-CAL2	QC		3		6E03047	6D26044	
BPF0076-CAL3	QC		4		6E03048	6D26044	
BPF0076-CAL4	QC		5		6E03049	6D26044	
BPF0076-CAL5	QC		6		6E03050	6D26044	
BPF0076-CAL6	QC		7		6E03051	6D26044	
BPF0076-CAL7	QC		8		6C01076	6C02047	
BPF0076-SCV1	QC		9		6E03052	6D26044	

Samples Loaded By Date

Data Processed By Date

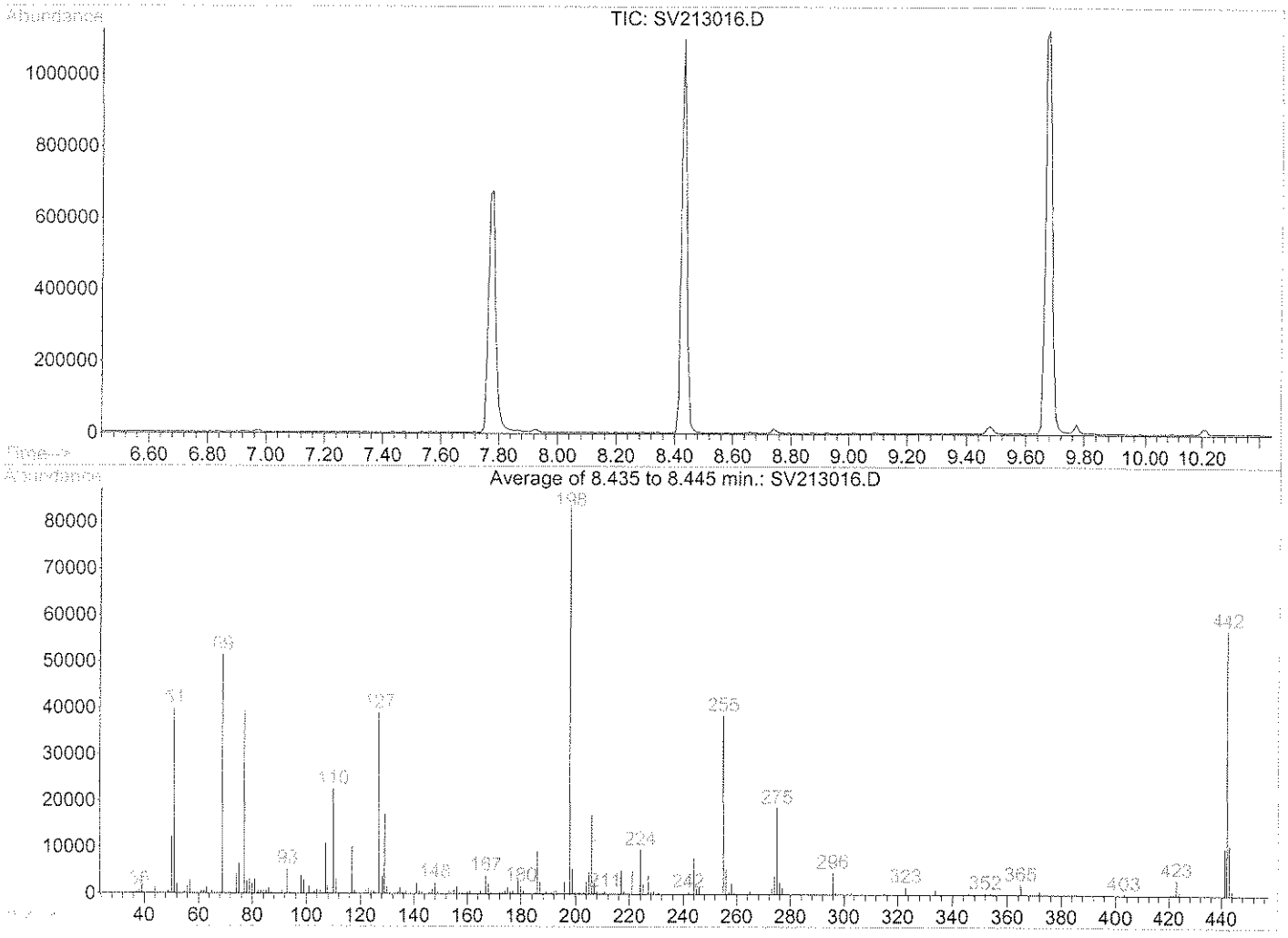
ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/7/06	21	SV2 13014	06054 78-06	SV2KG		MC
6/7/06	22	SV2 130 15	06054 78-08	SV2KG		MC
6/8/06	1 ~~23~~	SV2 16	BPF0076 - TUN1	DFTPP	6E12106	
	2	SV2 17	- CCV1	PAH2DW		
	2	SV2 18	- CCV1	PAH2DW		
	3	SV2 19	- Cal1	PAH2DX	6E22059	
	4	SV2 20	- Cal2		58	
	5	SV2 21	- Cal3		57	
	6	SV2 22	- Cal4		55	
	7	SV2 23	- Cal5		54	
	8	SV2 24	- Cal6		53	
	9	SV2 25	- Cal7		52	
	10	SV2 26	BPF0076 - SCV1	PAH2DX	60	JCS
	1	SV2 27	BPF0077 - TUN1	DFTPP		EEB
	2	SV2 28	BPF0077 CCV	PAH2DX		
	3	SV2 29	BF60501 - BLK3		RR IS Failed	
	4	SV2 30	0606014-01			
	5	SV2 31	" - 02			
	6	SV2 32	0606014-03			
	7	SV2 33	BF60501 - Dup3			
	8	SV2 34	0606014-04			
	9	SV2 35	" - 05			
6/8/06	10	SV2 36	0606014-00		RR	
6/9/06	1	SV2 37	BPF0077 - TUN1	DFTPP	✓	JCS
	2	SV2 38	BPF0077 CCV1	PAH2DX	✓	
	3	SV2 39	BF60501 - BLK3		✓	
	4	SV2 40	0606014-01		✓	
	5	SV2 41	0606014-02		✓ RR 10X	
6/9/06	6	SV2 42	0606014-03	PAH2DX	✓	JCS

Control Number 60.0019-0601A Page_____

Data File : Q:\SVOA\MS2_ME\ME0606\ME060806\SV213016.D Vial: 1
Acq On : 8 Jun 2006 7:39 am Operator: JLS
Sample : BPF0076-TUN1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\PAH2DX.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606012



Spectrum Information: Average of 8.435 to 8.445 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.9	39847	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	61.9	51443	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	47.0	39031	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	83112	PASS
199	198	5	9	6.5	5385	PASS
275	198	10	30	22.4	18647	PASS
365	198	1	100	2.6	2172	PASS
441	443	0.01	100	93.3	10103	PASS
442	198	40	100	68.7	57080	PASS
443	442	17	23	19.0	10826	PASS

SV213016.D PAH2DX.M Wed Jul 19 20:39:27 2006

Response Factor Report GC/MS 2

Method : C:\HPCHEM\1\METHODS\PAH2DX.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606012
Last Update : Fri Jun 16 08:26:48 2006
Response via : Initial Calibration

Calibration Files
0.2 =SV213020.D 0.4 =SV213021.D 1.0 =SV213022.D
2.0 =SV213023.D 5.0 =SV213024.D 8.0 =SV213025.D

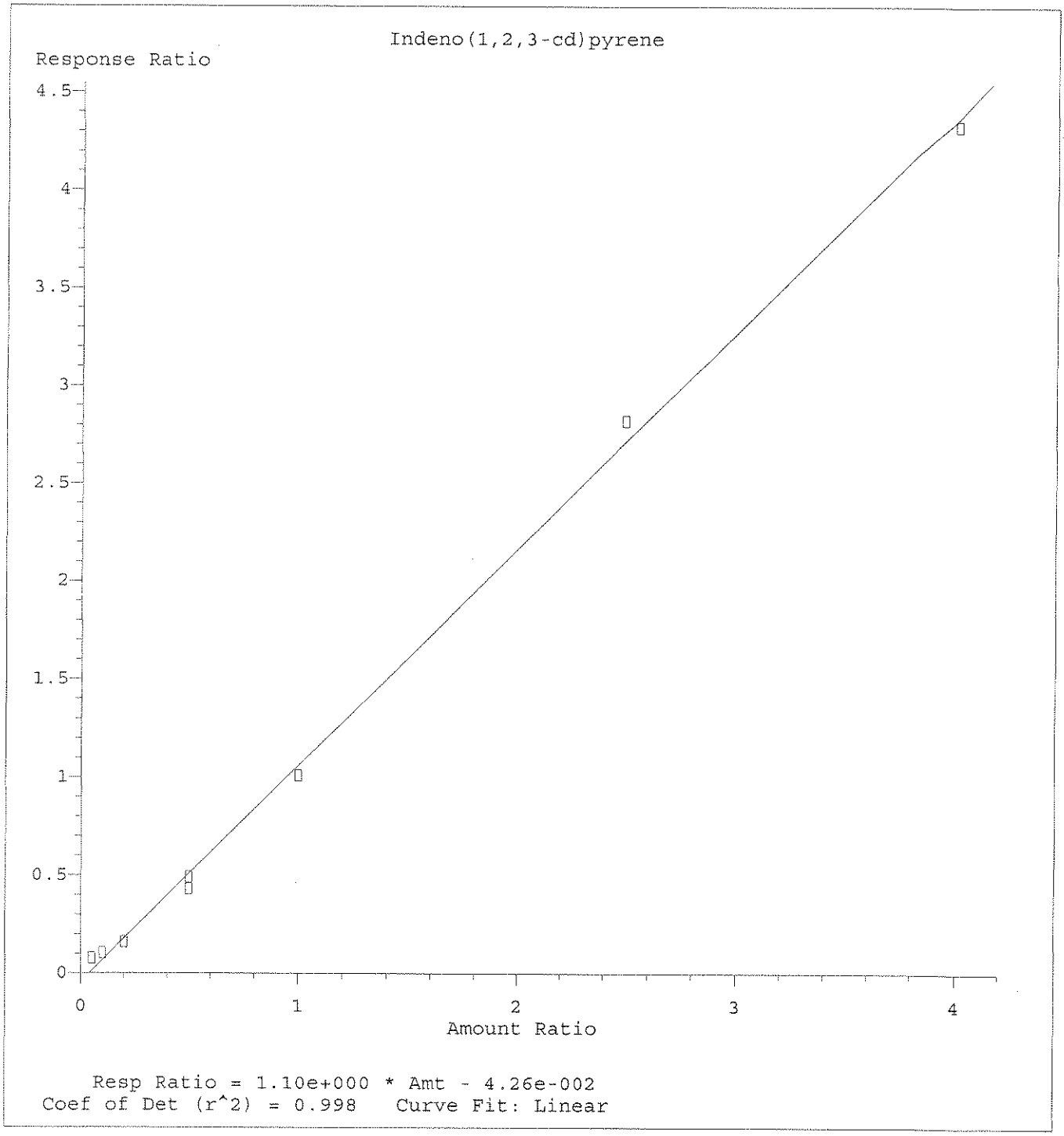
		Compound	0.2	0.4	1.0	2.0	5.0	8.0	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)	S	1,2 Dichlorobenzene	0.856	0.764	0.799	0.792	0.818	0.787	0.823	7.40
3)		Naphthalene-d8	----------ISTD----------							
4)	S	Nitrobenzene-d5 (SU	0.395	0.388	0.374	0.369	0.380	0.372	0.389	7.11
5)		Naphthalene	1.077	0.957	0.921	0.927	0.941	0.901	0.995	12.45
6)		2-Methylnaphthalene	0.634	0.582	0.566	0.569	0.582	0.585	0.610	10.84
7)		1-Methylnaphthalene	0.631	0.581	0.561	0.565	0.578	0.576	0.604	10.34
8)		Acenaphthene-d10	----------ISTD----------							
9)	S	2-Fluorobiphenyl (S	1.283	1.174	1.116	1.146	1.164	1.154	1.220	11.05
10)		Acenaphthylene	1.850	1.668	1.635	1.701	1.735	1.727	1.778	9.53
11)	C	Acenaphthene	1.211	1.079	1.047	1.075	1.092	1.072	1.139	11.04#
12)		Fluorene	1.209	1.091	1.072	0.997	1.129	1.064	1.133	10.79
13)		Phenanthrene-d10	----------ISTD----------							
14)	S	2,4,6-Tribromopheno	0.064	0.058	0.075	0.070	0.072	0.076	0.070	10.00
15)	C	Pentachlorophenol	0.041	0.041	0.052	0.059	0.075	0.078	0.055	29.29#
16)		Phenanthrene	1.260	1.124	1.116	1.114	1.116	1.095	1.188	12.22
17)		Anthracene	1.183	1.054	1.063	1.086	1.109	1.095	1.137	9.73
18)	C	Fluoranthene	0.671	0.552	0.732	0.664	0.594	0.719	0.690	16.16#
19)		Chrysene-d12	----------ISTD----------							
20)		Pyrene	2.419	2.278	2.162	2.130	2.168	1.918	2.264	11.93
21)	S	Terphenyl-d14 (SURR	1.093	1.020	1.001	0.963	0.969	0.874	1.028	12.46
22)		Benzo(a)anthracene	1.349	1.200	1.180	1.196	1.254	1.256	1.296	12.35
23)		Chrysene	1.362	1.219	1.196	1.188	1.209	1.182	1.293	14.48
24)		Perylene-d12	----------ISTD----------							
25)		Benzo(b)fluoranthen	1.405	1.292	1.243	1.294	1.338	1.344	1.370	10.41
26)		Benzo(k)fluoranthen	1.531	1.290	1.312	1.412	1.531	1.595	1.483	10.34
27)	C	Benzo(a)pyrene	1.198	1.075	1.083	1.107	1.210	1.209	1.198	12.23#
28)		Indeno(1,2,3-cd)pyr	1.043	0.805	0.982	1.010	1.129	1.082	1.085	20.96
29)		Dibenzo(a,h)anthrac	0.795	0.592	0.772	0.800	0.912	0.881	0.842	19.91
30)		Benzo(g,h,i)perylen	0.961	0.729	0.865	0.857	0.929	0.862	0.962	27.19

Avg RF

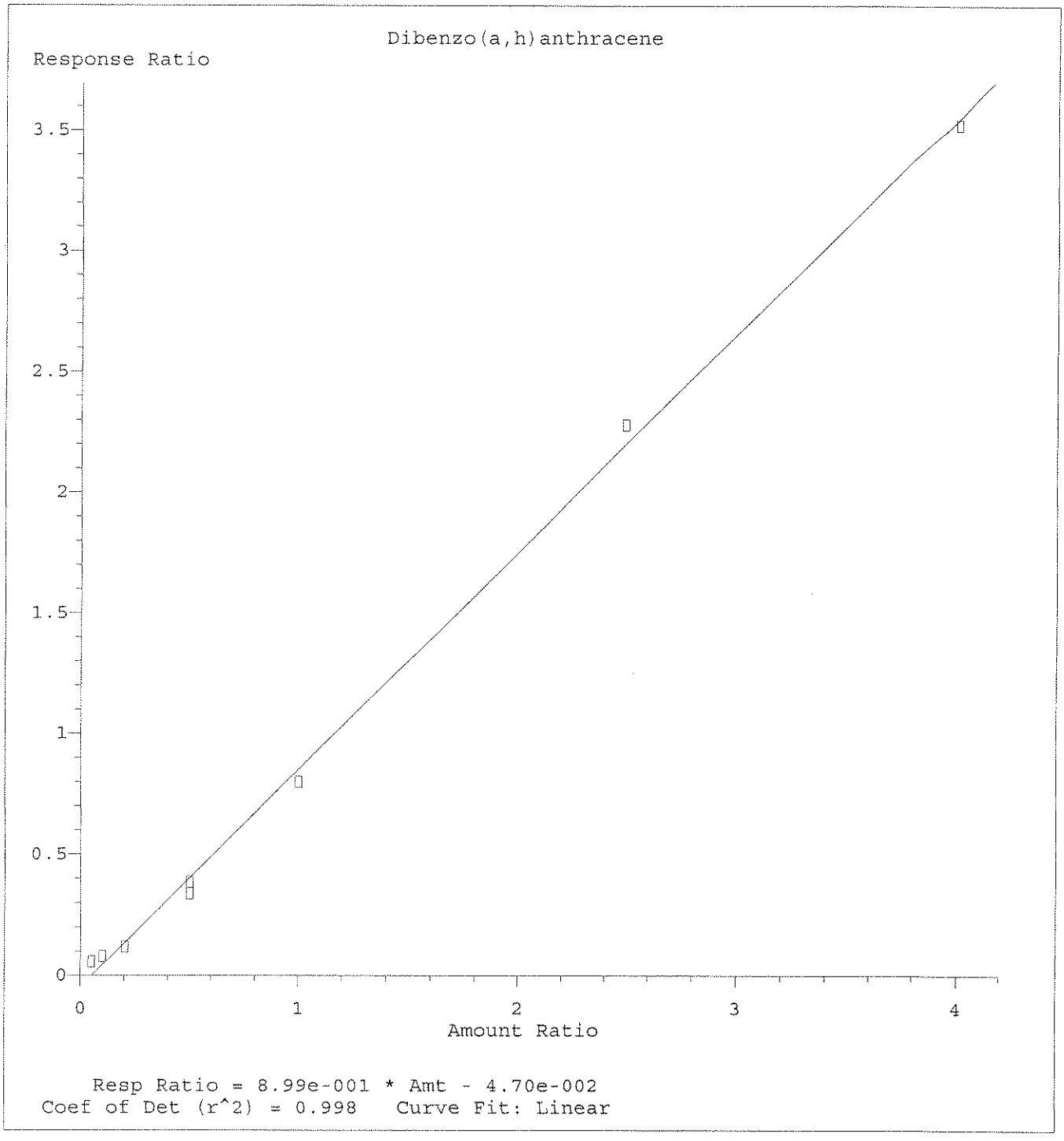
Linear Curve.

Linear Curve

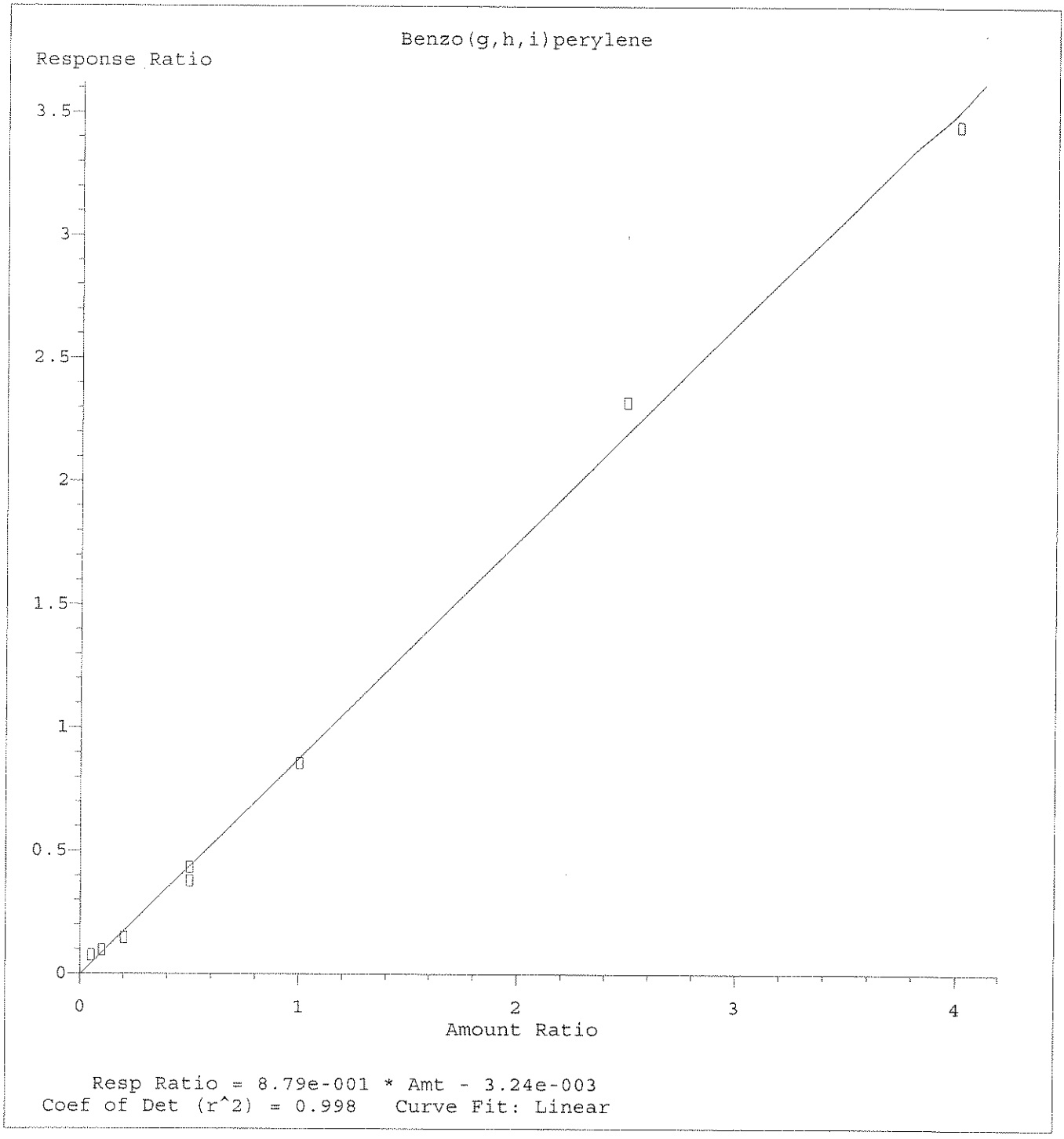
(#) = Out of Range ### Number of calibration levels exceeded format ###
PAH2DX.M Wed Jul 19 20:13:09 2006 Page 1



Method Name: C:\HPCHEM\1\METHODS\PAH2DX.M
Calibration Table Last Updated: Fri Jun 16 08:26:48 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DX.M
Calibration Table Last Updated: Fri Jun 16 08:26:48 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DX.M
Calibration Table Last Updated: Fri Jun 16 08:26:48 2006

ANALYSIS SEQUENCE

BPF0104

Instrument: SVOAMS2

Calibnration ID: UNASSIGNED PAH2DX

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0104-TUN1	QC		1		6E31075		
BPF0104-CCV1	QC		2		6E22055	6D26044	
0606078-02	VOC: 8270/3541 ppb PAH SI	A	3			6D26044	MACTEC Engineering & Consulting, In
0606078-03	VOC: 8270/3541 ppb PAH SI	A	4			6D26044	MACTEC Engineering & Consulting, In
0606078-07	VOC: 8270/3541 ppb PAH SI	A	5			6D26044	MACTEC Engineering & Consulting, In
0606078-09	VOC: 8270/3541 ppb PAH SI	A	6			6D26044	MACTEC Engineering & Consulting, In
0606078-14	VOC: 8270/3541 ppb PAH SI	A	7			6D26044	MACTEC Engineering & Consulting, In
0606078-15	VOC: 8270/3541 ppb PAH SI	A	8			6D26044	MACTEC Engineering & Consulting, In
BF61518-BLK1	QC		9			6D26044	
BF61518-BS1	QC		10			6D26044	
BF61518-BSD1	QC		11			6D26044	

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYS
6/12/06	9	SV2 01	0606078-09	PAH2DX		JCS
	10	SV2 02	-03			
	11	SV2 03	-02			
	12	SV2 04	-05			
	13	SV2 05	-01			
	14	SV2 06	-01MS1			
	15	SV2 07	-01MSD1			
	16	SV2 08	-06			
	17	SV2 09	-10			
	18	SV2 10	-11			
	19	SV2 11	-16			
6/12/06	20	SV2 12	0606078 -17	PAH2DX		JCS
6/13/06	1	SV2 13	BPB F0104 TCS 6/13/06 TUNIX	DFTPP	ME31075	TCS
		SV2 14	CCV1	PAH2DX		
		SV2 15	CCV1			
		SV2 16	~~BPF0104~~ CCV1		✓ ME22055	
		SV2 17	BF60803-BLK3		✓	
		SV2 18	0606082-02		✓	
		SV2 19	-03			
		SV2 20	-04			
		SV2 21	-05			
		SV2 22	-06		MS not run	
		SV2 23	0606082 -07			
6/13/06	1	SV2 20	BPF0104-TUN1 ✓	DFTPP	ME31075	JCS
	2	SV2 21	BPF0104-CCV1 ✓	PAH2DX	ME22056	
	3	SV2 22	BF60803-Blk3			
	4	SV2 23	0606082-02			
	5	SV2 24	0606082-03			
6/13/06	6	SV2 25	BF60724-BLK1 ✓	PAH2DX		JCS

Control Number 60.0019-0601A Page_____

ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

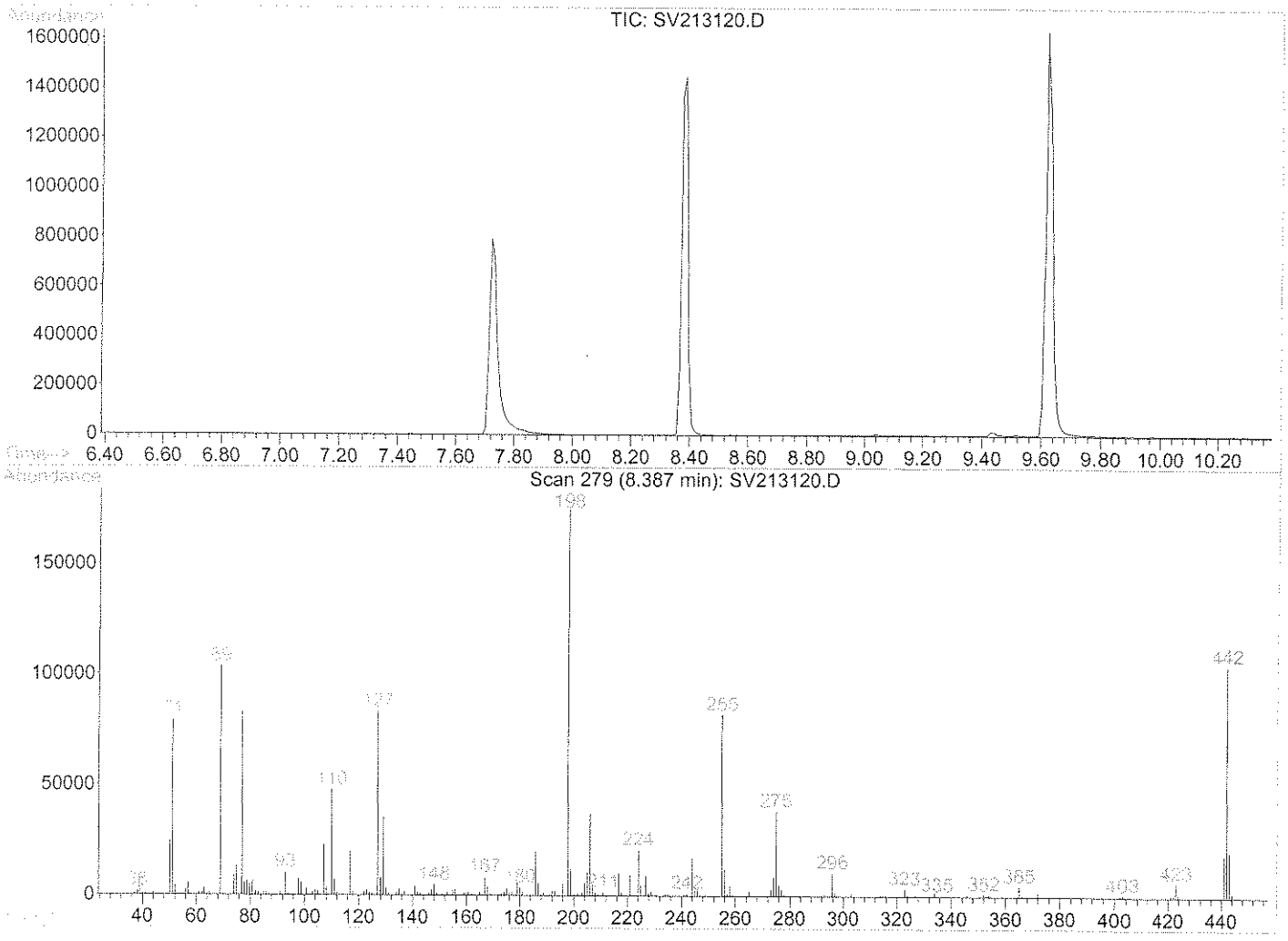
BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/13/06	7	SV2 13126	BF60724-BS1	PAH2DX		VX
	8	SV2 27	BF60724-BSD1			
	9	SV2 28	0606078-07			
	10	SV2 29	-15			
	11	SV2 30	-14			
	12	SV2 31	-09		RR ~~5x~~ 4x	
	13	SV2 32	-03		RR 2x	
	14	SV2 33	-02		RR 8x	
	15	SV2 34	-05		~~RR 5x~~ ~~RR 10x~~	
	16	SV2 35	-01		RR 4x 8270	
	17	SV2 36	-01MS			
	18	SV2 37	-01MSD			
	19	SV2 38	-06			
	20	SV2 39	-10		not needed	
	21	SV2 40	-11			
6/13/06	22	SV2 41	0606078-16	PAH2DX		VX
6/14/06	1	SV2 42	~~BF00~~ BPF0119-Thru	DFTPP	GE30075	VC
	2	SV2 43	BPF0119-TCV1	PAH2DX	GE30076	
	3	SV2 44	BF61201-BLK1		~~AC~~	
	4	SV2 45	BF61201-BS1			
	5	SV2 46	BF61201-BSD1			
	6	SV2 47	0606113-02		RR 4X	
	7	SV2 48	-06		RR ~~4x~~	
	8	SV2 49	-07		RR 4x	
	9	SV2 50	-15			
	10	SV2 51	-17		RR 8x	
	11	SV2 52	-08			
	12	SV2 53	-12			
6/14/06	13	SV2 13154	0606113-13	PAH2DX		VC

Control Number 60.0019-0601A

Page__________

021

Data File : Q:\SVOA\MS2_ME\ME0606\ME061306\SV213120.D Vial: 1
Acq On : 13 Jun 2006 11:40 am Operator: JLS
Sample : BPF0104-TUN1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\PAH2EB.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0607020



Spectrum Information: Scan 279

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	45.4	79472	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	59.1	103520	PASS
70	69	0.00	2	0.5	508	PASS
127	198	40	60	47.5	83184	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	175168	PASS
199	198	5	9	6.7	11816	PASS
275	198	10	30	21.9	38416	PASS
365	198	1	100	2.6	4532	PASS
441	443	0.01	100	93.1	18872	PASS
442	198	40	100	59.7	104632	PASS
443	442	17	23	19.4	20280	PASS

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS2_ME\ME0606\ME061306\SV213121.D Vial: 2
Acq On : 13 Jun 2006 12:00 pm Operator: JLS
Sample : BPF0104-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\PAH2DX.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606012
Last Update : Fri Jun 16 08:26:48 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	62	0.03	
2	S	1,2 Dichlorobenzene-d4(SURR	0.823	0.934	-13.5	73	0.03	
3		Naphthalene-d8	1.000	1.000	0.0	59	0.05	
4	S	Nitrobenzene-d5 (SURR)	0.389	0.370	4.9	58	0.04	
5		Naphthalene	0.995	1.085	-9.0	69	0.04	
6		2-Methylnaphthalene	0.610	0.606	0.7	63	0.05	
7		1-Methylnaphthalene	0.604	0.600	0.7	63	0.05	
8		Acenaphthene-d10	1.000	1.000	0.0	67	0.06	
9	S	2-Fluorobiphenyl (SURR)	1.220	1.128	7.5	68	0.05	
10		Acenaphthylene	1.778	1.603	9.8	66	0.06	
11	C	Acenaphthene	1.139	1.034	9.2#	66	0.06	
12		Fluorene	1.133	1.035	8.6	65	0.06	
13		Phenanthrene-d10	1.000	1.000	0.0	76	0.07	
14	S	2,4,6-Tribromophenol (SURR)	0.070	0.061	12.9	62	0.07	
15	C	Pentachlorophenol	0.055	0.035#	36.4#	51	0.09	— N/A
16		Phenanthrene	1.188	1.016	14.5	69	0.07	
17		Anthracene	1.137	1.033	9.1	74	0.07	
18	C	Fluoranthene	0.690	0.808	-17.1#	84	0.08	
19		Chrysene-d12	1.000	1.000	0.0	62	0.08	
20		Pyrene	2.264	2.923	-29.1	84	0.08	
21	S	Terphenyl-d14 (SURR)	1.028	1.203	-17.0	74	0.08	
22		Benzo(a)anthracene	1.296	1.158	10.6	61	0.08	
23		Chrysene	1.293	1.178	8.9	61	0.09	
24		Perylene-d12	1.000	1.000	0.0	43#	0.10	
25		Benzo(b)fluoranthene	1.370	1.407	-2.7	49#	0.09	
26		Benzo(k)fluoranthene	1.483	1.425	3.9	47#	0.09	
27	C	Benzo(a)pyrene	1.198	1.133	5.4#	45#	0.09	
28		Indeno(1,2,3-cd)pyrene	1.085	0.793	26.9	35#	0.12	> Linear
29		Dibenzo(a,h)anthracene	0.842	0.615	27.0	34#	0.13	> Linear
30		Benzo(g,h,i)perylene	0.962	0.656	31.8#	33#	0.14	> Linear

70-130%.

(#) = Out of Range SPCC's out = 0 CCC's out = 4
SV213121.D PAH2DX.M Wed Jul 19 20:18:54 2006 Page 1

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\MS2_ME\ME0606\ME061306\SV213121.D Vial: 2
Acq On : 13 Jun 2006 12:00 pm Operator: JLS
Sample : BPF0104-CCV1 (1.0) Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 13 12:26 2006 Quant Results File: PAH2DX.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2DX.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606012
Last Update : Tue Jun 13 07:29:14 2006
Response via : Initial Calibration
DataAcq Meth : PAH2DX

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.90	152	16913	2.00	ng/uL	-0.05
3) Naphthalene-d8	5.32	136	63283	2.00	ng/uL	-0.06
8) Acenaphthene-d10	8.05	164	37391	2.00	ng/uL	-0.07
13) Phenanthrene-d10	10.91	188	43981	2.00	ng/uL	-0.07
19) Chrysene-d12	16.54	240	11491m	2.00	ng/uL	-0.08
24) Perylene-d12	19.39	264	5769	2.00	ng/uL	-0.07
System Monitoring Compounds						
2) 1,2 Dichlorobenzene-d4(SUR	4.09	152	7900m	1.13	ng/uL	-0.05
Spiked Amount 2.500			Recovery	=	45.20%	
4) Nitrobenzene-d5 (SURR)	4.49	82	11692m	0.95	ng/uL	-0.05
Spiked Amount 2.500			Recovery	=	38.00%	
9) 2-Fluorobiphenyl (SURR)	6.88	172	21090	0.92	ng/uL	-0.06
Spiked Amount 2.500			Recovery	=	36.80%	
14) 2,4,6-Tribromophenol (SURR	9.57	330	1351m	0.88	ng/uL	-0.06
Spiked Amount 3.750			Recovery	=	23.47%	
21) Terphenyl-d14 (SURR)	14.33	244	6911	1.17	ng/uL	-0.07
Spiked Amount 2.500			Recovery	=	46.80%	
Target Compounds						Qvalue
5) Naphthalene	5.34	128	34318	1.09	ng/uL#	98
6) 2-Methylnaphthalene	6.29	142	19172	0.99	ng/uL	100
7) 1-Methylnaphthalene	6.45	142	18986	0.99	ng/uL	91
10) Acenaphthylene	7.77	152	29968	0.90	ng/uL#	100
11) Acenaphthene	8.11	153	19332	0.91	ng/uL	99
12) Fluorene	9.05	166	19358	0.91	ng/uL	99
15) Pentachlorophenol	10.69	266	769	0.67	ng/uL#	100
16) Phenanthrene	10.96	178	22350	0.86	ng/uL#	98
17) Anthracene	11.05	178	22719	0.91	ng/uL#	97
18) Fluoranthene	13.47	202	17779m	1.17	ng/uL	
20) Pyrene	13.93	202	16794m	1.29	ng/uL	
22) Benzo(a)anthracene	16.50	228	6652	0.89	ng/uL	97
23) Chrysene	16.59	228	6771	0.91	ng/uL	90
25) Benzo(b)fluoranthene	18.69	252	4058	1.03	ng/uL	92
26) Benzo(k)fluoranthene	18.73	252	4111	0.96	ng/uL#	61
27) Benzo(a)pyrene	19.28	252	3269	0.95	ng/uL	93
28) Indeno(1,2,3-cd)pyrene	21.47	276	2287	0.77	ng/uL#	99
29) Dibenzo(a,h)anthracene	21.49	278	1773	0.76	ng/uL#	95
30) Benzo(g,h,i)perylene	22.03	276	1892	0.73	ng/uL#	100

70-130%

(#) = qualifier out of range (m) = manual integration
SV213121.D PAH2EB.M Wed Jul 19 20:10:29 2006 Page 1

ESS Organic Preparation Logbook

Project #: 0606078
Prep Date: 6/7/06
Batch ID: SXBF60724
Extraction Method: 3541

Surrogate ID#
A 6E26033
B 6F03056
C NA

Matrix Spike ID#
D 6E24056
E NA
F

Analytical Matrix: soil
Extraction Time:
Start: 12:30
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
SXBF60724-B	20.0	1 A	NA	1	1	NA	6/7/06	40	NA	NA		EM	NMT	SC
-B1	20.0	1 A	1	1	1									
-B/D	20.0	1 A	1	1	1									
0606078-01	19.9	1 A	NA	1	1									
-02	20.2	1 A		1	1									
-03	20.4	1 A		1	1									
-04	19.8	1 A		1	1									
-05	19.9	1 A	NA	5	1									
-05MS	20.7	1 A	1	5	1									
-05MSD	20.4	1 A	1	5	1									
-06	20.1	1 A	NA	1	1									
-07	21.0	1 A		1	1									
-08	19.2	1 A		1	1									
-09	19.1	1 A		1	1									
-10	19.9	1 A		1	1									
-11	19.8	1 A		1	1									
-12	20.2	1 A		1	1									
-14	19.2	1 A		1	1									
-15	21.0	1 A		1	1									
-16	21.0	1 A		1	1									
EM 6/7/06 -17	19.7	1 A	NA	1	1									
[illegible] SXBF60724-BS	20.0	1 B	0.025	1	1									
-B/D	20.0	1 B	0.025	1	1	NA	6/7/06	40	NA	NA		EM	NMT	SC

466

Analysis Performed
PCB ☐
B/N SVOA ☐
SVOA ☒
LL PAH ☐
PEST ☐
TPH/GC ☐
BIS-2 ☐
PAH ☐

Acid Washed: Y / (N) H2SO4 ID# NA
Cu Cleaned: Y / (N) Cu ID# NA
Florisiled: Y / (N) Lot# NA
Silica Column/Carbon prep: Y / (N) Lot # NA

CH_2Cl_2 lot # CQ237
Hexane lot# NA
Acetone lot# NA
NaOH ID# NA
Na_2SO_4 ID# PR11053006 IZ

Prepared By: EM
Glasswool: PR0060806A
Method #(s): 8270

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A

BATCH ID/Test: BF60724
BATCH ID/Test:
Page

057

Pesticides
Data Package

Pesticides
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI006
Date Sampled: 06/05/06 15:05
Percent Solids: 78
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-01
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD		ND	ug/Kg dry	6.41	1	06/09/06
4,4'-DDE	P	**39.1**	ug/Kg dry	6.41	1	06/09/06
4,4'-DDT		**63.4**	ug/Kg dry	6.41	1	06/09/06
Aldrin		ND	ug/Kg dry	6.41	1	06/09/06
alpha-BHC		**9.33**	ug/Kg dry	6.41	1	06/09/06
alpha-Chlordane	P	**17.2**	ug/Kg dry	6.41	1	06/09/06
beta-BHC		ND	ug/Kg dry	6.41	1	06/09/06
Chlordane (Total)		**185**	ug/Kg dry	64.1	1	06/09/06
delta-BHC		ND	ug/Kg dry	6.41	1	06/09/06
Dieldrin	P	**32.1**	ug/Kg dry	6.41	1	06/09/06
Endosulfan I		ND	ug/Kg dry	6.41	1	06/09/06
Endosulfan II		ND	ug/Kg dry	6.41	1	06/09/06
Endosulfan Sulfate		ND	ug/Kg dry	6.41	1	06/09/06
Endrin		ND	ug/Kg dry	6.41	1	06/09/06
Endrin Aldehyde		ND	ug/Kg dry	6.41	1	06/09/06
Endrin Ketone		ND	ug/Kg dry	6.41	1	06/09/06
gamma-BHC (Lindane)		ND	ug/Kg dry	6.41	1	06/09/06
gamma-Chlordane		**27.6**	ug/Kg dry	6.41	1	06/09/06
Heptachlor		**8.94**	ug/Kg dry	6.41	1	06/09/06
Heptachlor Epoxide		ND	ug/Kg dry	6.41	1	06/09/06
Hexachlorobenzene		ND	ug/Kg dry	6.41	1	06/09/06
Methoxychlor		ND	ug/Kg dry	6.41	1	06/09/06
Toxaphene		ND	ug/Kg dry	321	1	06/09/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*63 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*58 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*88 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*66 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI005
Date Sampled: 06/05/06 15:30
Percent Solids: 53
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-02
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD	P	**40.6**	ug/Kg dry	9.43	1	06/09/06
4,4'-DDE	P	**38.3**	ug/Kg dry	9.43	1	06/09/06
4,4'-DDT		**57.3**	ug/Kg dry	9.43	1	06/09/06
Aldrin		ND	ug/Kg dry	9.43	1	06/09/06
alpha-BHC		ND	ug/Kg dry	9.43	1	06/09/06
alpha-Chlordane	P	**17.0**	ug/Kg dry	9.43	1	06/09/06
beta-BHC		ND	ug/Kg dry	9.43	1	06/09/06
Chlordane (Total)		**227**	ug/Kg dry	94.3	1	06/09/06
delta-BHC		ND	ug/Kg dry	9.43	1	06/09/06
Dieldrin		ND	ug/Kg dry	9.43	1	06/09/06
Endosulfan I		ND	ug/Kg dry	9.43	1	06/09/06
Endosulfan II		ND	ug/Kg dry	9.43	1	06/09/06
Endosulfan Sulfate		ND	ug/Kg dry	9.43	1	06/09/06
Endrin		ND	ug/Kg dry	9.43	1	06/09/06
Endrin Aldehyde		ND	ug/Kg dry	9.43	1	06/09/06
Endrin Ketone		ND	ug/Kg dry	9.43	1	06/09/06
gamma-BHC (Lindane)		ND	ug/Kg dry	9.43	1	06/09/06
gamma-Chlordane	P	**27.0**	ug/Kg dry	9.43	1	06/09/06
Heptachlor		ND	ug/Kg dry	9.43	1	06/09/06
Heptachlor Epoxide		ND	ug/Kg dry	9.43	1	06/09/06
Hexachlorobenzene		ND	ug/Kg dry	9.43	1	06/09/06
Methoxychlor		ND	ug/Kg dry	9.43	1	06/09/06
Toxaphene		ND	ug/Kg dry	472	1	06/09/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*68 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*63 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*60 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*57 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI004
Date Sampled: 06/05/06 15:50
Percent Solids: 82
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-03
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD		ND	ug/Kg dry	6.07	1	06/09/06
4,4'-DDE	P	**10.4**	ug/Kg dry	6.07	1	06/09/06
4,4'-DDT	P	**23.7**	ug/Kg dry	6.07	1	06/09/06
Aldrin		ND	ug/Kg dry	6.07	1	06/09/06
alpha-BHC		ND	ug/Kg dry	6.07	1	06/09/06
alpha-Chlordane		ND	ug/Kg dry	6.07	1	06/09/06
beta-BHC		ND	ug/Kg dry	6.07	1	06/09/06
Chlordane (Total)		ND	ug/Kg dry	60.7	1	06/09/06
delta-BHC		ND	ug/Kg dry	6.07	1	06/09/06
Dieldrin		ND	ug/Kg dry	6.07	1	06/09/06
Endosulfan I		ND	ug/Kg dry	6.07	1	06/09/06
Endosulfan II		ND	ug/Kg dry	6.07	1	06/09/06
Endosulfan Sulfate		ND	ug/Kg dry	6.07	1	06/09/06
Endrin		ND	ug/Kg dry	6.07	1	06/09/06
Endrin Aldehyde		ND	ug/Kg dry	6.07	1	06/09/06
Endrin Ketone	P	**13.1**	ug/Kg dry	6.07	1	06/09/06
gamma-BHC (Lindane)		ND	ug/Kg dry	6.07	1	06/09/06
gamma-Chlordane		ND	ug/Kg dry	6.07	1	06/09/06
Heptachlor		ND	ug/Kg dry	6.07	1	06/09/06
Heptachlor Epoxide		ND	ug/Kg dry	6.07	1	06/09/06
Hexachlorobenzene		ND	ug/Kg dry	6.07	1	06/09/06
Methoxychlor		ND	ug/Kg dry	6.07	1	06/09/06
Toxaphene		ND	ug/Kg dry	303	1	06/09/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*62 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*66 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*56 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*88 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008
Date Sampled: 06/06/06 14:52
Percent Solids: 65
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-04
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD		ND	ug/Kg dry	7.62	1	06/09/06
4,4'-DDE		ND	ug/Kg dry	7.62	1	06/09/06
4,4'-DDT	E	**902**	ug/Kg dry	7.62	1	06/09/06
Aldrin		ND	ug/Kg dry	7.62	1	06/09/06
alpha-BHC		ND	ug/Kg dry	7.62	1	06/09/06
alpha-Chlordane		ND	ug/Kg dry	7.62	1	06/09/06
beta-BHC		ND	ug/Kg dry	7.62	1	06/09/06
Chlordane (Total)		ND	ug/Kg dry	76.2	1	06/09/06
delta-BHC		ND	ug/Kg dry	7.62	1	06/09/06
Dieldrin		ND	ug/Kg dry	7.62	1	06/09/06
Endosulfan I		ND	ug/Kg dry	7.62	1	06/09/06
Endosulfan II		ND	ug/Kg dry	7.62	1	06/09/06
Endosulfan Sulfate		ND	ug/Kg dry	7.62	1	06/09/06
Endrin		ND	ug/Kg dry	7.62	1	06/09/06
Endrin Aldehyde		ND	ug/Kg dry	7.62	1	06/09/06
Endrin Ketone		ND	ug/Kg dry	7.62	1	06/09/06
gamma-BHC (Lindane)		ND	ug/Kg dry	7.62	1	06/09/06
gamma-Chlordane		ND	ug/Kg dry	7.62	1	06/09/06
Heptachlor		ND	ug/Kg dry	7.62	1	06/09/06
Heptachlor Epoxide	E, P	**628**	ug/Kg dry	7.62	1	06/09/06
Hexachlorobenzene		ND	ug/Kg dry	7.62	1	06/09/06
Methoxychlor		ND	ug/Kg dry	7.62	1	06/09/06
Toxaphene		ND	ug/Kg dry	381	1	06/09/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*61 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*113 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*61 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*51 %*		*30-150*

REVISED

JUL 24 2006

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008
Date Sampled: 06/06/06 14:52
Percent Solids: 65
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-04RE1
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	152	20	06/13/06
4,4'-DDE	ND	ug/Kg dry	152	20	06/13/06
4,4'-DDT	**950**	ug/Kg dry	152	20	06/13/06
Aldrin	ND	ug/Kg dry	152	20	06/13/06
alpha-BHC	ND	ug/Kg dry	152	20	06/13/06
alpha-Chlordane	ND	ug/Kg dry	152	20	06/13/06
beta-BHC	ND	ug/Kg dry	152	20	06/13/06
Chlordane (Total)	ND	ug/Kg dry	1520	20	06/13/06
delta-BHC	ND	ug/Kg dry	152	20	06/13/06
Dieldrin	ND	ug/Kg dry	152	20	06/13/06
Endosulfan I	ND	ug/Kg dry	152	20	06/13/06
Endosulfan II	ND	ug/Kg dry	152	20	06/13/06
Endosulfan Sulfate	ND	ug/Kg dry	152	20	06/13/06
Endrin	ND	ug/Kg dry	152	20	06/13/06
Endrin Aldehyde	ND	ug/Kg dry	152	20	06/13/06
Endrin Ketone	ND	ug/Kg dry	152	20	06/13/06
gamma-BHC (Lindane)	ND	ug/Kg dry	152	20	06/13/06
gamma-Chlordane	ND	ug/Kg dry	152	20	06/13/06
Heptachlor	ND	ug/Kg dry	152	20	06/13/06
Heptachlor Epoxide	**297**	ug/Kg dry	152	20	06/13/06
Hexachlorobenzene	ND	ug/Kg dry	152	20	06/13/06
Methoxychlor	ND	ug/Kg dry	152	20	06/13/06
Toxaphene	ND	ug/Kg dry	7620	20	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	DL	*30-150*
Surrogate: Decachlorobiphenyl [2C]	%		*30-150*
Surrogate: Tetrachloro-m-xylene	%		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	%		*30-150*

CLP 7/24/06

REVISED

JUL 24 2006

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008 DUP
Date Sampled: 06/06/06 14:52
Percent Solids: 63
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-05
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD		ND	ug/Kg dry	7.94	1	06/09/06
4,4'-DDE	P, E	**319**	ug/Kg dry	7.94	1	06/09/06
4,4'-DDT	E	**1060**	ug/Kg dry	7.94	1	06/09/06
Aldrin		ND	ug/Kg dry	7.94	1	06/09/06
alpha-BHC		ND	ug/Kg dry	7.94	1	06/09/06
alpha-Chlordane		ND	ug/Kg dry	7.94	1	06/09/06
beta-BHC		ND	ug/Kg dry	7.94	1	06/09/06
Chlordane (Total)		ND	ug/Kg dry	79.4	1	06/09/06
delta-BHC		ND	ug/Kg dry	7.94	1	06/09/06
Dieldrin		ND	ug/Kg dry	7.94	1	06/09/06
Endosulfan I		ND	ug/Kg dry	7.94	1	06/09/06
Endosulfan II		ND	ug/Kg dry	7.94	1	06/09/06
Endosulfan Sulfate		ND	ug/Kg dry	7.94	1	06/09/06
Endrin		ND	ug/Kg dry	7.94	1	06/09/06
Endrin Aldehyde		ND	ug/Kg dry	7.94	1	06/09/06
Endrin Ketone		ND	ug/Kg dry	7.94	1	06/09/06
gamma-BHC (Lindane)		ND	ug/Kg dry	7.94	1	06/09/06
gamma-Chlordane		ND	ug/Kg dry	7.94	1	06/09/06
Heptachlor		ND	ug/Kg dry	7.94	1	06/09/06
Heptachlor Epoxide	E	**1060**	ug/Kg dry	7.94	1	06/09/06
Hexachlorobenzene		**9.19**	ug/Kg dry	7.94	1	06/09/06
Methoxychlor		ND	ug/Kg dry	7.94	1	06/09/06
Toxaphene		ND	ug/Kg dry	397	1	06/09/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*65 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*69 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*54 %*		*30-150*

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Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008 DUP
Date Sampled: 06/06/06 14:52
Percent Solids: 63
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-05RE1
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD		ND	ug/Kg dry	159	20	06/13/06
4,4'-DDE	P	**402**	ug/Kg dry	159	20	06/13/06
4,4'-DDT		**1050**	ug/Kg dry	159	20	06/13/06
Aldrin		ND	ug/Kg dry	159	20	06/13/06
alpha-BHC		ND	ug/Kg dry	159	20	06/13/06
alpha-Chlordane		ND	ug/Kg dry	159	20	06/13/06
beta-BHC		ND	ug/Kg dry	159	20	06/13/06
Chlordane (Total)		ND	ug/Kg dry	1590	20	06/13/06
delta-BHC		ND	ug/Kg dry	159	20	06/13/06
Dieldrin		ND	ug/Kg dry	159	20	06/13/06
Endosulfan I		ND	ug/Kg dry	159	20	06/13/06
Endosulfan II		ND	ug/Kg dry	159	20	06/13/06
Endosulfan Sulfate		ND	ug/Kg dry	159	20	06/13/06
Endrin		ND	ug/Kg dry	159	20	06/13/06
Endrin Aldehyde		ND	ug/Kg dry	159	20	06/13/06
Endrin Ketone		ND	ug/Kg dry	159	20	06/13/06
gamma-BHC (Lindane)		ND	ug/Kg dry	159	20	06/13/06
gamma-Chlordane		ND	ug/Kg dry	159	20	06/13/06
Heptachlor		ND	ug/Kg dry	159	20	06/13/06
Heptachlor Epoxide	P	**651**	ug/Kg dry	159	20	06/13/06
Hexachlorobenzene		ND	ug/Kg dry	159	20	06/13/06
Methoxychlor		ND	ug/Kg dry	159	20	06/13/06
Toxaphene		ND	ug/Kg dry	7940	20	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	%	DL	*30-150*
Surrogate: Decachlorobiphenyl [2C]	%		*30-150*
Surrogate: Tetrachloro-m-xylene	%		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	%		*30-150*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI208
Date Sampled: 06/06/06 11:17
Percent Solids: 89
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-07
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	5.59	1	06/10/06
4,4'-DDE	ND	ug/Kg dry	5.59	1	06/10/06
4,4'-DDT	ND	ug/Kg dry	5.59	1	06/10/06
Aldrin	ND	ug/Kg dry	5.59	1	06/10/06
alpha-BHC	ND	ug/Kg dry	5.59	1	06/10/06
alpha-Chlordane	ND	ug/Kg dry	5.59	1	06/10/06
beta-BHC	ND	ug/Kg dry	5.59	1	06/10/06
Chlordane (Total)	ND	ug/Kg dry	55.9	1	06/10/06
delta-BHC	ND	ug/Kg dry	5.59	1	06/10/06
Dieldrin	ND	ug/Kg dry	5.59	1	06/10/06
Endosulfan I	ND	ug/Kg dry	5.59	1	06/10/06
Endosulfan II	ND	ug/Kg dry	5.59	1	06/10/06
Endosulfan Sulfate	ND	ug/Kg dry	5.59	1	06/10/06
Endrin	ND	ug/Kg dry	5.59	1	06/10/06
Endrin Aldehyde	ND	ug/Kg dry	5.59	1	06/10/06
Endrin Ketone	ND	ug/Kg dry	5.59	1	06/10/06
gamma-BHC (Lindane)	ND	ug/Kg dry	5.59	1	06/10/06
gamma-Chlordane	ND	ug/Kg dry	5.59	1	06/10/06
Heptachlor	ND	ug/Kg dry	5.59	1	06/10/06
Heptachlor Epoxide	ND	ug/Kg dry	5.59	1	06/10/06
Hexachlorobenzene	ND	ug/Kg dry	5.59	1	06/10/06
Methoxychlor	ND	ug/Kg dry	5.59	1	06/10/06
Toxaphene	ND	ug/Kg dry	280	1	06/10/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*70 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*140 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*70 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI010
Date Sampled: 06/06/06 08:31
Percent Solids: 88
Initial Volume: 20.9
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-08
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD		ND	ug/Kg dry	5.44	1	06/10/06
4,4'-DDE		ND	ug/Kg dry	5.44	1	06/10/06
4,4'-DDT		**40.4**	ug/Kg dry	5.44	1	06/10/06
Aldrin		ND	ug/Kg dry	5.44	1	06/10/06
alpha-BHC		ND	ug/Kg dry	5.44	1	06/10/06
alpha-Chlordane		ND	ug/Kg dry	5.44	1	06/10/06
beta-BHC		ND	ug/Kg dry	5.44	1	06/10/06
Chlordane (Total)		ND	ug/Kg dry	54.4	1	06/10/06
delta-BHC	P	**14.8**	ug/Kg dry	5.44	1	06/10/06
Dieldrin		ND	ug/Kg dry	5.44	1	06/10/06
Endosulfan I		ND	ug/Kg dry	5.44	1	06/10/06
Endosulfan II		ND	ug/Kg dry	5.44	1	06/10/06
Endosulfan Sulfate		**11.6**	ug/Kg dry	5.44	1	06/10/06
Endrin		ND	ug/Kg dry	5.44	1	06/10/06
Endrin Aldehyde		ND	ug/Kg dry	5.44	1	06/10/06
Endrin Ketone		ND	ug/Kg dry	5.44	1	06/10/06
gamma-BHC (Lindane)		ND	ug/Kg dry	5.44	1	06/10/06
gamma-Chlordane	E	**95.9**	ug/Kg dry	5.44	1	06/10/06
Heptachlor		ND	ug/Kg dry	5.44	1	06/10/06
Heptachlor Epoxide		ND	ug/Kg dry	5.44	1	06/10/06
Hexachlorobenzene		ND	ug/Kg dry	5.44	1	06/10/06
Methoxychlor		ND	ug/Kg dry	5.44	1	06/10/06
Toxaphene		ND	ug/Kg dry	272	1	06/10/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*128 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*138 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*126 %*		*30-150*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI010
Date Sampled: 06/06/06 08:31
Percent Solids: 88
Initial Volume: 20.9
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-08RE1
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4´-DDD	ND	ug/Kg dry	27.2	5	06/13/06
4,4´-DDE	ND	ug/Kg dry	27.2	5	06/13/06
4,4´-DDT	**44.2**	ug/Kg dry	27.2	5	06/13/06
Aldrin	ND	ug/Kg dry	27.2	5	06/13/06
alpha-BHC	ND	ug/Kg dry	27.2	5	06/13/06
alpha-Chlordane	ND	ug/Kg dry	27.2	5	06/13/06
beta-BHC	ND	ug/Kg dry	27.2	5	06/13/06
Chlordane (Total)	ND	ug/Kg dry	272	5	06/13/06
delta-BHC	ND	ug/Kg dry	27.2	5	06/13/06
Dieldrin	ND	ug/Kg dry	27.2	5	06/13/06
Endosulfan I	ND	ug/Kg dry	27.2	5	06/13/06
Endosulfan II	ND	ug/Kg dry	27.2	5	06/13/06
Endosulfan Sulfate	ND	ug/Kg dry	27.2	5	06/13/06
Endrin	ND	ug/Kg dry	27.2	5	06/13/06
Endrin Aldehyde	ND	ug/Kg dry	27.2	5	06/13/06
Endrin Ketone	ND	ug/Kg dry	27.2	5	06/13/06
gamma-BHC (Lindane)	ND	ug/Kg dry	27.2	5	06/13/06
gamma-Chlordane	**92.6**	ug/Kg dry	27.2	5	06/13/06
Heptachlor	ND	ug/Kg dry	27.2	5	06/13/06
Heptachlor Epoxide	ND	ug/Kg dry	27.2	5	06/13/06
Hexachlorobenzene	ND	ug/Kg dry	27.2	5	06/13/06
Methoxychlor	ND	ug/Kg dry	27.2	5	06/13/06
Toxaphene	ND	ug/Kg dry	1360	5	06/13/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*111 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*46 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*390 %*	*+*	*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*185 %*	*+*	*30-150*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI003
Date Sampled: 06/06/06 09:16
Percent Solids: 88
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-09
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	5.65	1	06/10/06
4,4'-DDE	**15.9**	ug/Kg dry	5.65	1	06/10/06
4,4'-DDT	**28.7**	ug/Kg dry	5.65	1	06/10/06
Aldrin	ND	ug/Kg dry	5.65	1	06/10/06
alpha-BHC	ND	ug/Kg dry	5.65	1	06/10/06
alpha-Chlordane	ND	ug/Kg dry	5.65	1	06/10/06
beta-BHC	ND	ug/Kg dry	5.65	1	06/10/06
Chlordane (Total)	ND	ug/Kg dry	56.5	1	06/10/06
delta-BHC	ND	ug/Kg dry	5.65	1	06/10/06
Dieldrin	ND	ug/Kg dry	5.65	1	06/10/06
Endosulfan I	ND	ug/Kg dry	5.65	1	06/10/06
Endosulfan II	ND	ug/Kg dry	5.65	1	06/10/06
Endosulfan Sulfate	ND	ug/Kg dry	5.65	1	06/10/06
Endrin	ND	ug/Kg dry	5.65	1	06/10/06
Endrin Aldehyde	ND	ug/Kg dry	5.65	1	06/10/06
Endrin Ketone	ND	ug/Kg dry	5.65	1	06/10/06
gamma-BHC (Lindane)	ND	ug/Kg dry	5.65	1	06/10/06
gamma-Chlordane	ND	ug/Kg dry	5.65	1	06/10/06
Heptachlor	ND	ug/Kg dry	5.65	1	06/10/06
Heptachlor Epoxide	ND	ug/Kg dry	5.65	1	06/10/06
Hexachlorobenzene	ND	ug/Kg dry	5.65	1	06/10/06
Methoxychlor	ND	ug/Kg dry	5.65	1	06/10/06
Toxaphene	ND	ug/Kg dry	283	1	06/10/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*93 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*75 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*61 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*89 %*		*30-150*

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Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI011
Date Sampled: 06/06/06 08:11
Percent Solids: 76
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-10
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD	P	**20.7**	ug/Kg dry	6.51	1	06/10/06
4,4'-DDE	E	**75.8**	ug/Kg dry	6.51	1	06/10/06
4,4'-DDT	E	**236**	ug/Kg dry	6.51	1	06/10/06
Aldrin		ND	ug/Kg dry	6.51	1	06/10/06
alpha-BHC		ND	ug/Kg dry	6.51	1	06/10/06
alpha-Chlordane	P	**37.4**	ug/Kg dry	6.51	1	06/10/06
beta-BHC		ND	ug/Kg dry	6.51	1	06/10/06
Chlordane (Total)	E	ND	ug/Kg dry	65.1	1	06/10/06
delta-BHC		ND	ug/Kg dry	6.51	1	06/10/06
Dieldrin		ND	ug/Kg dry	6.51	1	06/10/06
Endosulfan I		ND	ug/Kg dry	6.51	1	06/10/06
Endosulfan II		ND	ug/Kg dry	6.51	1	06/10/06
Endosulfan Sulfate		ND	ug/Kg dry	6.51	1	06/10/06
Endrin		ND	ug/Kg dry	6.51	1	06/10/06
Endrin Aldehyde		ND	ug/Kg dry	6.51	1	06/10/06
Endrin Ketone		ND	ug/Kg dry	6.51	1	06/10/06
gamma-BHC (Lindane)		ND	ug/Kg dry	6.51	1	06/10/06
gamma-Chlordane		**45.7**	ug/Kg dry	6.51	1	06/10/06
Heptachlor		ND	ug/Kg dry	6.51	1	06/10/06
Heptachlor Epoxide		ND	ug/Kg dry	6.51	1	06/10/06
Hexachlorobenzene		ND	ug/Kg dry	6.51	1	06/10/06
Methoxychlor	P	**50.5**	ug/Kg dry	6.51	1	06/10/06
Toxaphene		ND	ug/Kg dry	326	1	06/10/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*75 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*75 %*		*30-150*

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Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI011
Date Sampled: 06/06/06 08:11
Percent Solids: 76
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-10RE1
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD	P	**95.3**	ug/Kg dry	32.6	5	06/13/06
4,4'-DDE		**62.5**	ug/Kg dry	32.6	5	06/13/06
4,4'-DDT		**169**	ug/Kg dry	32.6	5	06/13/06
Aldrin		ND	ug/Kg dry	32.6	5	06/13/06
alpha-BHC		ND	ug/Kg dry	32.6	5	06/13/06
alpha-Chlordane	P	**59.3**	ug/Kg dry	32.6	5	06/13/06
beta-BHC		ND	ug/Kg dry	32.6	5	06/13/06
Chlordane (Total)		**377**	ug/Kg dry	326	5	06/13/06
delta-BHC		ND	ug/Kg dry	32.6	5	06/13/06
Dieldrin		ND	ug/Kg dry	32.6	5	06/13/06
Endosulfan I		ND	ug/Kg dry	32.6	5	06/13/06
Endosulfan II		ND	ug/Kg dry	32.6	5	06/13/06
Endosulfan Sulfate		ND	ug/Kg dry	32.6	5	06/13/06
Endrin		ND	ug/Kg dry	32.6	5	06/13/06
Endrin Aldehyde		ND	ug/Kg dry	32.6	5	06/13/06
Endrin Ketone		ND	ug/Kg dry	32.6	5	06/13/06
gamma-BHC (Lindane)		ND	ug/Kg dry	32.6	5	06/13/06
gamma-Chlordane		**37.2**	ug/Kg dry	32.6	5	06/13/06
Heptachlor		ND	ug/Kg dry	32.6	5	06/13/06
Heptachlor Epoxide		ND	ug/Kg dry	32.6	5	06/13/06
Hexachlorobenzene		ND	ug/Kg dry	32.6	5	06/13/06
Methoxychlor	P	**65.1**	ug/Kg dry	32.6	5	06/13/06
Toxaphene		ND	ug/Kg dry	1630	5	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*45 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*42 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*63 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*64 %*		*30-150*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI210
Date Sampled: 06/06/06 13:31
Percent Solids: 93
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-11
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	5.38	1	06/12/06
4,4'-DDE	**7.23**	ug/Kg dry	5.38	1	06/12/06
4,4'-DDT	**24.2**	ug/Kg dry	5.38	1	06/12/06
Aldrin	ND	ug/Kg dry	5.38	1	06/12/06
alpha-BHC	ND	ug/Kg dry	5.38	1	06/12/06
alpha-Chlordane	ND	ug/Kg dry	5.38	1	06/12/06
beta-BHC	ND	ug/Kg dry	5.38	1	06/12/06
Chlordane (Total)	ND	ug/Kg dry	53.8	1	06/12/06
delta-BHC	ND	ug/Kg dry	5.38	1	06/12/06
Dieldrin	ND	ug/Kg dry	5.38	1	06/12/06
Endosulfan I	ND	ug/Kg dry	5.38	1	06/12/06
Endosulfan II	ND	ug/Kg dry	5.38	1	06/12/06
Endosulfan Sulfate	ND	ug/Kg dry	5.38	1	06/12/06
Endrin	ND	ug/Kg dry	5.38	1	06/12/06
Endrin Aldehyde	ND	ug/Kg dry	5.38	1	06/12/06
Endrin Ketone	ND	ug/Kg dry	5.38	1	06/12/06
gamma-BHC (Lindane)	ND	ug/Kg dry	5.38	1	06/12/06
gamma-Chlordane	ND	ug/Kg dry	5.38	1	06/12/06
Heptachlor	ND	ug/Kg dry	5.38	1	06/12/06
Heptachlor Epoxide	ND	ug/Kg dry	5.38	1	06/12/06
Hexachlorobenzene	ND	ug/Kg dry	5.38	1	06/12/06
Methoxychlor	ND	ug/Kg dry	5.38	1	06/12/06
Toxaphene	ND	ug/Kg dry	269	1	06/12/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*71 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*72 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*65 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*65 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI206
Date Sampled: 06/06/06 10:35
Percent Solids: 81
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-12
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4´-DDD		ND	ug/Kg dry	6.17	1	06/10/06
4,4´-DDE		**13.6**	ug/Kg dry	6.17	1	06/10/06
4,4´-DDT	P	**25.3**	ug/Kg dry	6.17	1	06/10/06
Aldrin		ND	ug/Kg dry	6.17	1	06/10/06
alpha-BHC		ND	ug/Kg dry	6.17	1	06/10/06
alpha-Chlordane		ND	ug/Kg dry	6.17	1	06/10/06
beta-BHC		ND	ug/Kg dry	6.17	1	06/10/06
Chlordane (Total)		ND	ug/Kg dry	61.7	1	06/10/06
delta-BHC		ND	ug/Kg dry	6.17	1	06/10/06
Dieldrin		ND	ug/Kg dry	6.17	1	06/10/06
Endosulfan I		ND	ug/Kg dry	6.17	1	06/10/06
Endosulfan II		ND	ug/Kg dry	6.17	1	06/10/06
Endosulfan Sulfate		ND	ug/Kg dry	6.17	1	06/10/06
Endrin		ND	ug/Kg dry	6.17	1	06/10/06
Endrin Aldehyde		ND	ug/Kg dry	6.17	1	06/10/06
Endrin Ketone		ND	ug/Kg dry	6.17	1	06/10/06
gamma-BHC (Lindane)		ND	ug/Kg dry	6.17	1	06/10/06
gamma-Chlordane		ND	ug/Kg dry	6.17	1	06/10/06
Heptachlor		ND	ug/Kg dry	6.17	1	06/10/06
Heptachlor Epoxide		ND	ug/Kg dry	6.17	1	06/10/06
Hexachlorobenzene		ND	ug/Kg dry	6.17	1	06/10/06
Methoxychlor		ND	ug/Kg dry	6.17	1	06/10/06
Toxaphene		ND	ug/Kg dry	309	1	06/10/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*98 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*69 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*98 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI209
Date Sampled: 06/06/06 13:45
Percent Solids: 92
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-14
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	5.28	1	06/12/06
4,4'-DDE	ND	ug/Kg dry	5.28	1	06/12/06
4,4'-DDT	ND	ug/Kg dry	5.28	1	06/12/06
Aldrin	ND	ug/Kg dry	5.28	1	06/12/06
alpha-BHC	ND	ug/Kg dry	5.28	1	06/12/06
alpha-Chlordane	ND	ug/Kg dry	5.28	1	06/12/06
beta-BHC	ND	ug/Kg dry	5.28	1	06/12/06
Chlordane (Total)	ND	ug/Kg dry	52.8	1	06/12/06
delta-BHC	ND	ug/Kg dry	5.28	1	06/12/06
Dieldrin	ND	ug/Kg dry	5.28	1	06/12/06
Endosulfan I	ND	ug/Kg dry	5.28	1	06/12/06
Endosulfan II	ND	ug/Kg dry	5.28	1	06/12/06
Endosulfan Sulfate	ND	ug/Kg dry	5.28	1	06/12/06
Endrin	ND	ug/Kg dry	5.28	1	06/12/06
Endrin Aldehyde	ND	ug/Kg dry	5.28	1	06/12/06
Endrin Ketone	ND	ug/Kg dry	5.28	1	06/12/06
gamma-BHC (Lindane)	ND	ug/Kg dry	5.28	1	06/12/06
gamma-Chlordane	ND	ug/Kg dry	5.28	1	06/12/06
Heptachlor	ND	ug/Kg dry	5.28	1	06/12/06
Heptachlor Epoxide	ND	ug/Kg dry	5.28	1	06/12/06
Hexachlorobenzene	ND	ug/Kg dry	5.28	1	06/12/06
Methoxychlor	ND	ug/Kg dry	5.28	1	06/12/06
Toxaphene	ND	ug/Kg dry	264	1	06/12/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*76 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*72 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*66 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*75 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI207
Date Sampled: 06/06/06 10:14
Percent Solids: 86
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-15
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD		ND	ug/Kg dry	5.79	1	06/12/06
4,4'-DDE		ND	ug/Kg dry	5.79	1	06/12/06
4,4'-DDT		ND	ug/Kg dry	5.79	1	06/12/06
Aldrin		ND	ug/Kg dry	5.79	1	06/12/06
alpha-BHC		ND	ug/Kg dry	5.79	1	06/12/06
alpha-Chlordane		ND	ug/Kg dry	5.79	1	06/12/06
beta-BHC		ND	ug/Kg dry	5.79	1	06/12/06
Chlordane (Total)		ND	ug/Kg dry	57.9	1	06/12/06
delta-BHC	P	**8.04**	ug/Kg dry	5.79	1	06/12/06
Dieldrin		ND	ug/Kg dry	5.79	1	06/12/06
Endosulfan I		ND	ug/Kg dry	5.79	1	06/12/06
Endosulfan II		ND	ug/Kg dry	5.79	1	06/12/06
Endosulfan Sulfate		ND	ug/Kg dry	5.79	1	06/12/06
Endrin		ND	ug/Kg dry	5.79	1	06/12/06
Endrin Aldehyde		ND	ug/Kg dry	5.79	1	06/12/06
Endrin Ketone		ND	ug/Kg dry	5.79	1	06/12/06
gamma-BHC (Lindane)		ND	ug/Kg dry	5.79	1	06/12/06
gamma-Chlordane		ND	ug/Kg dry	5.79	1	06/12/06
Heptachlor		ND	ug/Kg dry	5.79	1	06/12/06
Heptachlor Epoxide		ND	ug/Kg dry	5.79	1	06/12/06
Hexachlorobenzene		ND	ug/Kg dry	5.79	1	06/12/06
Methoxychlor		ND	ug/Kg dry	5.79	1	06/12/06
Toxaphene		ND	ug/Kg dry	289	1	06/12/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*73 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*63 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*61 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*70 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI001
Date Sampled: 06/06/06 11:01
Percent Solids: 82
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-16
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD		ND	ug/Kg dry	6.10	1	06/10/06
4,4'-DDE		**16.5**	ug/Kg dry	6.10	1	06/10/06
4,4'-DDT		**16.1**	ug/Kg dry	6.10	1	06/10/06
Aldrin		ND	ug/Kg dry	6.10	1	06/10/06
alpha-BHC		ND	ug/Kg dry	6.10	1	06/10/06
alpha-Chlordane		ND	ug/Kg dry	6.10	1	06/10/06
beta-BHC		ND	ug/Kg dry	6.10	1	06/10/06
Chlordane (Total)		ND	ug/Kg dry	61.0	1	06/10/06
delta-BHC		ND	ug/Kg dry	6.10	1	06/10/06
Dieldrin		ND	ug/Kg dry	6.10	1	06/10/06
Endosulfan I		ND	ug/Kg dry	6.10	1	06/10/06
Endosulfan II		**13.5**	ug/Kg dry	6.10	1	06/10/06
Endosulfan Sulfate		ND	ug/Kg dry	6.10	1	06/10/06
Endrin		ND	ug/Kg dry	6.10	1	06/10/06
Endrin Aldehyde		ND	ug/Kg dry	6.10	1	06/10/06
Endrin Ketone		ND	ug/Kg dry	6.10	1	06/10/06
gamma-BHC (Lindane)		ND	ug/Kg dry	6.10	1	06/10/06
gamma-Chlordane	P	**7.36**	ug/Kg dry	6.10	1	06/10/06
Heptachlor		ND	ug/Kg dry	6.10	1	06/10/06
Heptachlor Epoxide		ND	ug/Kg dry	6.10	1	06/10/06
Hexachlorobenzene		ND	ug/Kg dry	6.10	1	06/10/06
Methoxychlor		ND	ug/Kg dry	6.10	1	06/10/06
Toxaphene		ND	ug/Kg dry	305	1	06/10/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*94 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*65 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*75 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI007
Date Sampled: 06/06/06 16:23
Percent Solids: 58
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-17
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD		ND	ug/Kg dry	8.62	1	06/10/06
4,4'-DDE	P	**11.8**	ug/Kg dry	8.62	1	06/10/06
4,4'-DDT	E	**100**	ug/Kg dry	8.62	1	06/10/06
Aldrin		ND	ug/Kg dry	8.62	1	06/10/06
alpha-BHC		ND	ug/Kg dry	8.62	1	06/10/06
alpha-Chlordane		**10.6**	ug/Kg dry	8.62	1	06/10/06
beta-BHC		**58.4**	ug/Kg dry	8.62	1	06/10/06
Chlordane (Total)		**198**	ug/Kg dry	86.2	1	06/10/06
delta-BHC		ND	ug/Kg dry	8.62	1	06/10/06
Dieldrin		ND	ug/Kg dry	8.62	1	06/10/06
Endosulfan I		ND	ug/Kg dry	8.62	1	06/10/06
Endosulfan II		ND	ug/Kg dry	8.62	1	06/10/06
Endosulfan Sulfate		ND	ug/Kg dry	8.62	1	06/10/06
Endrin		ND	ug/Kg dry	8.62	1	06/10/06
Endrin Aldehyde		ND	ug/Kg dry	8.62	1	06/10/06
Endrin Ketone		ND	ug/Kg dry	8.62	1	06/10/06
gamma-BHC (Lindane)		ND	ug/Kg dry	8.62	1	06/10/06
gamma-Chlordane		**19.1**	ug/Kg dry	8.62	1	06/10/06
Heptachlor		ND	ug/Kg dry	8.62	1	06/10/06
Heptachlor Epoxide		ND	ug/Kg dry	8.62	1	06/10/06
Hexachlorobenzene		**11.8**	ug/Kg dry	8.62	1	06/10/06
Methoxychlor		ND	ug/Kg dry	8.62	1	06/10/06
Toxaphene		ND	ug/Kg dry	431	1	06/10/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*63 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*55 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*57 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*50 %*		*30-150*

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JUL 24 2006

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI007
Date Sampled: 06/06/06 16:23
Percent Solids: 58
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-17RE1
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/08/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	43.1	5	06/13/06
4,4'-DDE	ND	ug/Kg dry	43.1	5	06/13/06
4,4'-DDT	**126**	ug/Kg dry	43.1	5	06/13/06
Aldrin	ND	ug/Kg dry	43.1	5	06/13/06
alpha-BHC	ND	ug/Kg dry	43.1	5	06/13/06
alpha-Chlordane	ND	ug/Kg dry	43.1	5	06/13/06
beta-BHC	ND	ug/Kg dry	43.1	5	06/13/06
Chlordane (Total)	ND	ug/Kg dry	431	5	06/13/06
delta-BHC	ND	ug/Kg dry	43.1	5	06/13/06
Dieldrin	ND	ug/Kg dry	43.1	5	06/13/06
Endosulfan I	ND	ug/Kg dry	43.1	5	06/13/06
Endosulfan II	ND	ug/Kg dry	43.1	5	06/13/06
Endosulfan Sulfate	ND	ug/Kg dry	43.1	5	06/13/06
Endrin	ND	ug/Kg dry	43.1	5	06/13/06
Endrin Aldehyde	ND	ug/Kg dry	43.1	5	06/13/06
Endrin Ketone	ND	ug/Kg dry	43.1	5	06/13/06
gamma-BHC (Lindane)	ND	ug/Kg dry	43.1	5	06/13/06
gamma-Chlordane	ND	ug/Kg dry	43.1	5	06/13/06
Heptachlor	ND	ug/Kg dry	43.1	5	06/13/06
Heptachlor Epoxide	ND	ug/Kg dry	43.1	5	06/13/06
Hexachlorobenzene	ND	ug/Kg dry	43.1	5	06/13/06
Methoxychlor	ND	ug/Kg dry	43.1	5	06/13/06
Toxaphene	ND	ug/Kg dry	2160	5	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*153 %*	*+*	*30-150*
Surrogate: Decachlorobiphenyl [2C]	*65 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*38 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*52 %*		*30-150*

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Pesticides
Quality Control

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60811 - 5035										
Xylene O	24.9		ug/L	25.0		100	70-130	3	20	
Xylene P,M	49.9		ug/L	50.0		100	70-130	3	20	
Surrogate: 1,2-Dichloroethane-d4	*24.2*		ug/L	*25.0*		*97*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.5*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*23.9*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Toluene-d8	*24.7*		ug/L	*25.0*		*99*	*70-130*			
8081A Organochlorine Pesticides										
Batch BF60801 - 3541										
Blank										
4,4´-DDD	ND	5.00	ug/Kg wet							
4,4´-DDE	ND	5.00	ug/Kg wet							
4,4´-DDT	ND	5.00	ug/Kg wet							
Aldrin	ND	5.00	ug/Kg wet							
alpha-BHC	ND	5.00	ug/Kg wet							
alpha-Chlordane	ND	5.00	ug/Kg wet							
beta-BHC	ND	5.00	ug/Kg wet							
Chlordane (Total)	ND	50.0	ug/Kg wet							
delta-BHC	ND	5.00	ug/Kg wet							
Dieldrin	ND	5.00	ug/Kg wet							
Endosulfan I	ND	5.00	ug/Kg wet							
Endosulfan II	ND	5.00	ug/Kg wet							
Endosulfan Sulfate	ND	5.00	ug/Kg wet							
Endrin	ND	5.00	ug/Kg wet							
Endrin Aldehyde	ND	5.00	ug/Kg wet							
Endrin Ketone	ND	5.00	ug/Kg wet							
gamma-BHC (Lindane)	ND	5.00	ug/Kg wet							
gamma-Chlordane	ND	5.00	ug/Kg wet							
Heptachlor	ND	5.00	ug/Kg wet							
Heptachlor Epoxide	ND	5.00	ug/Kg wet							
Hexachlorobenzene	ND	5.00	ug/Kg wet							
Methoxychlor	ND	5.00	ug/Kg wet							
Toxaphene	ND	250	ug/Kg wet							
Surrogate: Decachlorobiphenyl	*18.0*		ug/Kg wet	*25.0*		*72*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*16.7*		ug/Kg wet	*25.0*		*67*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*17.2*		ug/Kg wet	*25.0*		*69*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*16.9*		ug/Kg wet	*25.0*		*68*	*30-150*			
LCS										
4,4´-DDD	20.0	5.00	ug/Kg wet	25.0		80	40-140			
4,4´-DDE	20.3	5.00	ug/Kg wet	25.0		81	40-140			
4,4´-DDT	19.0	5.00	ug/Kg wet	25.0		76	40-140			
Aldrin	22.5	5.00	ug/Kg wet	25.0		90	40-140			
alpha-BHC	17.3	5.00	ug/Kg wet	25.0		69	40-140			
alpha-Chlordane	20.0	5.00	ug/Kg wet	25.0		80	40-140			
beta-BHC	19.8	5.00	ug/Kg wet	25.0		79	40-140			
delta-BHC	15.5	5.00	ug/Kg wet	25.0		62	40-140			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch BF60801 - 3541										
Dieldrin	20.2	5.00	ug/Kg wet	25.0		81	40-140			
Endosulfan I	19.9	5.00	ug/Kg wet	25.0		80	40-140			
Endosulfan II	20.4	5.00	ug/Kg wet	25.0		82	40-140			
Endosulfan Sulfate	19.1	5.00	ug/Kg wet	25.0		76	40-140			
Endrin	20.5	5.00	ug/Kg wet	25.0		82	40-140			
Endrin Aldehyde	18.6	5.00	ug/Kg wet	25.0		74	40-140			
Endrin Ketone	18.4	5.00	ug/Kg wet	25.0		74	40-140			
gamma-BHC (Lindane)	18.3	5.00	ug/Kg wet	25.0		73	40-140			
gamma-Chlordane	20.9	5.00	ug/Kg wet	25.0		84	40-140			
Heptachlor	21.2	5.00	ug/Kg wet	25.0		85	40-140			
Heptachlor Epoxide	20.2	5.00	ug/Kg wet	25.0		81	40-140			
Hexachlorobenzene	9.73	5.00	ug/Kg wet	25.0		39	40-140			+
Methoxychlor	18.6	5.00	ug/Kg wet	25.0		74	40-140			
Surrogate: Decachlorobiphenyl	*17.7*		ug/Kg wet	*25.0*		*71*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*17.0*		ug/Kg wet	*25.0*		*68*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*16.1*		ug/Kg wet	*25.0*		*64*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*16.5*		ug/Kg wet	*25.0*		*66*	*30-150*			
LCS Dup										
4,4´-DDD	22.5	5.00	ug/Kg wet	25.0		90	40-140	12	30	
4,4´-DDE	20.6	5.00	ug/Kg wet	25.0		82	40-140	1	30	
4,4´-DDT	27.2	5.00	ug/Kg wet	25.0		109	40-140	35	30	+
Aldrin	22.3	5.00	ug/Kg wet	25.0		89	40-140	0.9	30	
alpha-BHC	15.8	5.00	ug/Kg wet	25.0		63	40-140	9	30	
alpha-Chlordane	19.5	5.00	ug/Kg wet	25.0		78	40-140	3	30	
beta-BHC	19.1	5.00	ug/Kg wet	25.0		76	40-140	4	30	
delta-BHC	18.1	5.00	ug/Kg wet	25.0		72	40-140	15	30	
Dieldrin	21.5	5.00	ug/Kg wet	25.0		86	40-140	6	30	
Endosulfan I	19.1	5.00	ug/Kg wet	25.0		76	40-140	4	30	
Endosulfan II	19.9	5.00	ug/Kg wet	25.0		80	40-140	2	30	
Endosulfan Sulfate	22.7	5.00	ug/Kg wet	25.0		91	40-140	17	30	
Endrin	23.6	5.00	ug/Kg wet	25.0		94	40-140	14	30	
Endrin Aldehyde	20.5	5.00	ug/Kg wet	25.0		82	40-140	10	30	
Endrin Ketone	20.8	5.00	ug/Kg wet	25.0		83	40-140	12	30	
gamma-BHC (Lindane)	17.8	5.00	ug/Kg wet	25.0		71	40-140	3	30	
gamma-Chlordane	25.1	5.00	ug/Kg wet	25.0		100	40-140	18	30	
Heptachlor	21.3	5.00	ug/Kg wet	25.0		85	40-140	0.5	30	
Heptachlor Epoxide	20.9	5.00	ug/Kg wet	25.0		84	40-140	3	30	
Hexachlorobenzene	9.74	5.00	ug/Kg wet	25.0		39	40-140	0.1	30	+
Methoxychlor	28.8	5.00	ug/Kg wet	25.0		115	40-140	43	30	+
Surrogate: Decachlorobiphenyl	*19.2*		ug/Kg wet	*25.0*		*77*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*16.4*		ug/Kg wet	*25.0*		*66*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*14.1*		ug/Kg wet	*25.0*		*56*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*14.8*		ug/Kg wet	*25.0*		*59*	*30-150*			
Matrix Spike **Source: 0606078-05**										
4,4´-DDD	754	158	ug/Kg dry	39.5	ND	NR	30-150			+

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch BF60801 - 3541										
4,4´-DDE	635	158	ug/Kg dry	39.5	402	590	30-150			+
4,4´-DDT	1380	158	ug/Kg dry	39.5	1050	835	30-150			+
Aldrin	42.7	7.90	ug/Kg dry	39.5	ND	108	30-150			
alpha-BHC	39.2	7.90	ug/Kg dry	39.5	ND	99	30-150			
alpha-Chlordane	66.3	7.90	ug/Kg dry	39.5	ND	168	30-150			+
beta-BHC	45.1	7.90	ug/Kg dry	39.5	ND	114	30-150			
delta-BHC	49.0	7.90	ug/Kg dry	39.5	ND	124	30-150			
Dieldrin	53.4	7.90	ug/Kg dry	39.5	ND	135	30-150			
Endosulfan I	667	158	ug/Kg dry	39.5	ND	NR	30-150			+
Endosulfan II	27.9	7.90	ug/Kg dry	39.5	ND	71	30-150			
Endosulfan Sulfate	48.3	7.90	ug/Kg dry	39.5	ND	122	30-150			
Endrin	143	158	ug/Kg dry	39.5	ND	362	30-150			+
Endrin Aldehyde	195	158	ug/Kg dry	39.5	ND	494	30-150			+
Endrin Ketone	29.0	7.90	ug/Kg dry	39.5	ND	73	30-150			
gamma-BHC (Lindane)	35.5	7.90	ug/Kg dry	39.5	ND	90	30-150			
gamma-Chlordane	166	158	ug/Kg dry	39.5	ND	420	30-150			+
Heptachlor	52.4	7.90	ug/Kg dry	39.5	ND	133	30-150			
Heptachlor Epoxide	1010	158	ug/Kg dry	39.5	651	909	30-150			+
Hexachlorobenzene	32.5	7.90	ug/Kg dry	39.5	9.19	59	30-150			
Methoxychlor	617	158	ug/Kg dry	39.5	ND	NR	30-150			+
Surrogate: Decachlorobiphenyl	*31.0*		ug/Kg dry	*39.5*		*78*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*42.4*		ug/Kg dry	*39.5*		*107*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*45.9*		ug/Kg dry	*39.5*		*116*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*37.7*		ug/Kg dry	*39.5*		*95*	*30-150*			
Matrix Spike Dup Source: 0606078-05										
4,4´-DDD	894	159	ug/Kg dry	39.7	ND	NR	30-150	17	30	+
4,4´-DDE	779	159	ug/Kg dry	39.7	402	950	30-150	20	30	+
4,4´-DDT	1400	159	ug/Kg dry	39.7	1050	882	30-150	1	30	+
Aldrin	37.4	7.94	ug/Kg dry	39.7	ND	94	30-150	13	30	
alpha-BHC	32.5	7.94	ug/Kg dry	39.7	ND	82	30-150	19	30	
alpha-Chlordane	35.9	7.94	ug/Kg dry	39.7	ND	90	30-150	59	30	+
beta-BHC	27.7	7.94	ug/Kg dry	39.7	ND	70	30-150	48	30	+
delta-BHC	41.8	7.94	ug/Kg dry	39.7	ND	105	30-150	16	30	
Dieldrin	990	159	ug/Kg dry	39.7	ND	NR	30-150	180	30	+
Endosulfan I	42.6	7.94	ug/Kg dry	39.7	ND	107	30-150	176	30	+
Endosulfan II	38.1	7.94	ug/Kg dry	39.7	ND	96	30-150	31	30	+
Endosulfan Sulfate	32.4	7.94	ug/Kg dry	39.7	ND	82	30-150	39	30	+
Endrin	1090	159	ug/Kg dry	39.7	ND	NR	30-150	154	30	+
Endrin Aldehyde	119	159	ug/Kg dry	39.7	ND	300	30-150	48	30	+
Endrin Ketone	30.5	7.94	ug/Kg dry	39.7	ND	77	30-150	5	30	
gamma-BHC (Lindane)	76.8	7.94	ug/Kg dry	39.7	ND	193	30-150	74	30	+
gamma-Chlordane	224	159	ug/Kg dry	39.7	ND	564	30-150	30	30	+
Heptachlor	48.2	7.94	ug/Kg dry	39.7	ND	121	30-150	8	30	
Heptachlor Epoxide	1520	159	ug/Kg dry	39.7	651	NR	30-150	40	30	+
Hexachlorobenzene	29.6	7.94	ug/Kg dry	39.7	9.19	51	30-150	9	30	
Methoxychlor	183	159	ug/Kg dry	39.7	ND	461	30-150	108	30	+

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch BF60801 - 3541										
Surrogate: Decachlorobiphenyl	*37.0*		ug/Kg dry	*39.7*		*93*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*43.0*		ug/Kg dry	*39.7*		*108*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*35.4*		ug/Kg dry	*39.7*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*29.3*		ug/Kg dry	*39.7*		*74*	*30-150*			
8082 Polychlorinated Biphenyls (PCB)										
Batch BF60801 - 3541										
Blank										
Aroclor 1016	ND	50.0	ug/Kg wet							
Aroclor 1221	ND	50.0	ug/Kg wet							
Aroclor 1232	ND	50.0	ug/Kg wet							
Aroclor 1242	ND	50.0	ug/Kg wet							
Aroclor 1248	ND	50.0	ug/Kg wet							
Aroclor 1254	ND	50.0	ug/Kg wet							
Aroclor 1260	ND	50.0	ug/Kg wet							
Aroclor 1262	ND	50.0	ug/Kg wet							
Aroclor 1268	ND	50.0	ug/Kg wet							
Surrogate: Decachlorobiphenyl	*16.3*		ug/Kg wet	*25.0*		*65*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*16.2*		ug/Kg wet	*25.0*		*65*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*12.6*		ug/Kg wet	*25.0*		*50*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*13.6*		ug/Kg wet	*25.0*		*54*	*30-150*			
LCS										
Aroclor 1016	508	50.0	ug/Kg wet	500		102	40-140			
Aroclor 1260	504	50.0	ug/Kg wet	500		101	40-140			
Surrogate: Decachlorobiphenyl	*18.0*		ug/Kg wet	*25.0*		*72*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*18.4*		ug/Kg wet	*25.0*		*74*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*22.1*		ug/Kg wet	*25.0*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*22.5*		ug/Kg wet	*25.0*		*90*	*30-150*			
LCS Dup										
Aroclor 1016	527	50.0	ug/Kg wet	500		105	40-140	4	50	
Aroclor 1260	513	50.0	ug/Kg wet	500		103	40-140	2	50	
Surrogate: Decachlorobiphenyl	*18.1*		ug/Kg wet	*25.0*		*72*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*20.2*		ug/Kg wet	*25.0*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*23.8*		ug/Kg wet	*25.0*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*23.6*		ug/Kg wet	*25.0*		*94*	*30-150*			
Matrix Spike **Source: 0606078-05**										
Aroclor 1016	606	79.3	ug/Kg dry	794	ND	76	40-140			
Aroclor 1260	1670	396	ug/Kg dry	794	2020	NR	40-140			+
Surrogate: Decachlorobiphenyl	*16.5*		ug/Kg dry	*39.7*		*42*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*23.3*		ug/Kg dry	*39.7*		*59*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*19.4*		ug/Kg dry	*39.7*		*49*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*20.4*		ug/Kg dry	*39.7*		*51*	*30-150*			

Pesticides
Calibration Data

ANALYSIS SEQUENCE

BPG0196

Instrument: SVOAGC3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0196-PEM1	QC		1		6E02036		
BPG0196-CAL1	QC		2		6E30081		
BPG0196-CAL2	QC		3		6E30082		
BPG0196-CAL3	QC		4		6E30083		
BPG0196-CAL4	QC		5		6E30084		
BPG0196-CAL5	QC		6		6E30085		
BPG0196-CAL6	QC		7		6E30086		
BPG0196-CAL7	QC		8		6E30087		
BPG0196-SCV1	QC		9		6E30089		
BPG0196-CAL8	QC		10		6E30090		
BPG0196-SCV2	QC		11		6E30091		
BPG0196-CAL9	QC		12		6B16090		
BPG0196-SCV3	QC		13		6B16094		
BPG0196-PEM2	QC		14		6E02036		
BPG0196-CCV1	QC		15		6F09048		
0606078-01	SVOC: 8081A ppb Pesticides	F	16				MACTEC Engineering & Consulting, In
0606078-02	SVOC: 8081A ppb Pesticides	F	17				MACTEC Engineering & Consulting, In
0606078-03	SVOC: 8081A ppb Pesticides	F	18				MACTEC Engineering & Consulting, In
0606078-04	SVOC: 8081A ppb Pesticides	F	19				MACTEC Engineering & Consulting, In
0606078-05	SVOC: 8081A ppb Pesticides	F	20				MACTEC Engineering & Consulting, In
BF60801-MS2	QC		21				
BF60801-MSD2	QC		22				
0606078-07	SVOC: 8081A ppb Pesticides	F	23				MACTEC Engineering & Consulting, In
0606078-08	SVOC: 8081A ppb Pesticides	F	24				MACTEC Engineering & Consulting, In
0606078-09	SVOC: 8081A ppb Pesticides	F	25				MACTEC Engineering & Consulting, In
0606078-10	SVOC: 8081A ppb Pesticides	F	26				MACTEC Engineering & Consulting, In
0606078-12	SVOC: 8081A ppb Pesticides	F	27				MACTEC Engineering & Consulting, In
0606078-16	SVOC: 8081A ppb Pesticides	F	28				MACTEC Engineering & Consulting, In
0606078-17	SVOC: 8081A ppb Pesticides	F	29				MACTEC Engineering & Consulting, In
BPG0196-CCV2	QC		30		6F09048		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/9/06	1	GE060906-1	Prime	8081EC		SK
	2	2	PEM ✓		10:04 AM	
	3	3	Pest 5 ppb SS ✓		GE30081	
	4	4	10 ppb ✓		082	
	5	5	20 ppb ✓		083	
	6	6	50 ppb ✓		084	
	7	7	60 ppb ✓		085	
	8	8	80 ppb ✓		086	
	9	9	100 ppb ✓		087	
	10	10	SS		088	
	11	11	Pest SS ✓		089 02:17 PM	
	12	12	Chlordane ✓		090	
	13	13	Chlordane SS ✓		GE30091	
	14	14	Toxaphene ✓		GB16090	
	15	15	Toxaphene SS ✓	8081EC	GB16099	
			Prime			
			Pem			
			Pest 5 ppb			
			10 ppb			
			20 ppb			
			50 ppb		SS	
			60 ppb			
			80 ppb			
			100 ppb			
			SS			
			Pest SS			

CONTROL NUMBER 60.0012-0601A

PAGE_____

045

Response Factor Report GC3

Method : Q:\SVOA\GC3_GE\METHODS\8081EC.M
Title :
Last Update : Fri Jun 09 14:29:36 2006
Response via : Initial Calibration

Calibration Files
10 =004F0101.D 20 =005F0101.D 5 =003F0101.D
60 =007F0101.D 80 =008F0101.D 100 =009F0101.D

Used Linear Curve

		Compound	10	20	5	60	80	100	Avg		%RSD
1)	S	Tetrachloro-m-xylen	60.8	55.7	58.8	64.5	61.9	58.5	59.9	E3	4.72
2)	M	Hexachlorobenzene	106.0	95.4	102.7	100.4	95.8	88.6	97.9	E3	5.82
3)	M	alpha-BHC	54.5	53.0	51.1	71.2	71.0	67.4	61.8	E3	14.10
4)	M	gamma-BHC (Lindane)	53.8	51.9	50.5	66.3	65.4	62.3	58.7	E3	11.15
5)	M	beta-BHC	31.8	30.0	29.6	35.4	34.5	32.7	32.4	E3	6.56
6)	M	delta-BHC	48.6	46.7	44.2	65.3	65.2	62.0	55.9	E3	16.32
7)	M	Heptachlor	58.1	54.4	54.6	65.3	64.1	60.7	59.6	E3	7.14
8)	M	Aldrin	49.8	47.2	47.6	58.5	57.6	54.9	52.7	E3	8.78
9)	M	Heptachlor Epoxide	50.0	46.2	48.3	54.8	53.7	50.8	50.6	E3	5.80
10)	M	gamma-Chlordane	51.7	47.7	48.8	56.1	54.8	51.8	51.8	E3	5.74
11)	M	alpha-Chlordane	52.6	47.6	51.6	54.1	52.5	49.5	51.2	E3	4.29
12)	M	4,4'-DDE	48.4	44.3	46.9	53.2	52.1	49.2	49.0	E3	6.12
13)	M	Endosulfan I	48.3	44.8	46.1	53.4	52.6	50.0	49.2	E3	6.39
14)	M	Dieldrin	44.1	41.2	42.1	50.7	50.2	47.9	46.1	E3	8.16
15)	M	Endrin	38.7	35.5	36.4	44.0	43.1	40.9	39.8	E3	7.99
16)	M	4,4'-DDD	37.7	35.1	35.2	45.2	44.9	43.1	40.3	E3	10.79
17)	M	Endosulfan II	43.7	40.1	41.4	47.7	46.6	44.3	43.9	E3	6.09
18)	M	4,4'-DDT	42.1	35.6	40.7	45.0	44.5	42.8	41.9	E3	7.47
19)	M	Endrin Aldehyde	41.4	36.7	37.0	42.0	40.1	38.1	39.2	E3	5.25
20)	M	Methoxychlor	24.8	22.9	20.5	28.1	26.8	25.6	24.9	E3	10.15
21)	M	Endosulfan Sulfate	41.5	39.1	44.8	44.9	44.0	41.5	42.6	E3	4.99
22)	M	Endrin Ketone	63.5	54.3	55.5	60.6	57.5	54.7	57.5	E3	5.90
23)	S	Decachlorobiphenyl	46.2	41.1	43.9	47.1	44.4	42.0	44.1	E3	4.78

Signal #2 Calibration Files
10 =004R0101.D 20 =005R0101.D 5 =003R0101.D
60 =007R0101.D 80 =008R0101.D 100 =009R0101.D

		Compound	10	20	5	60	80	100	Avg		%RSD
1)	S	Tetrachloro-m-xylen	19.5	18.5	19.5	22.8	22.4	21.3	20.7	E3	7.80
2)	M	Hexachlorobenzene	37.7	32.6	35.8	38.4	37.7	35.2	36.1	E3	5.49
3)	M	alpha-BHC	16.9	17.2	16.6	26.5	27.6	26.7	22.1	E3	22.82
4)	M	gamma-BHC (Lindane)	18.3	18.2	18.1	25.7	26.0	24.9	22.1	E3	16.76
5)	M	beta-BHC	12.7	11.0	11.8	13.5	13.4	12.8	12.5	E3	7.26
6)	M	delta-BHC	16.8	16.5	15.9	24.2	24.6	23.8	20.5	E3	19.26
7)	M	Heptachlor	19.1	18.1	18.3	22.5	22.8	22.0	20.4	E3	9.90
8)	M	Aldrin	18.5	17.8	18.8	23.5	23.7	22.9	20.9	E3	12.06
9)	M	Heptachlor Epoxide	19.7	18.4	20.3	22.5	22.3	21.4	20.7	E3	7.06
10)	M	gamma-Chlordane	20.8	19.3	20.2	23.4	23.2	22.1	21.5	E3	7.07
11)	M	alpha-Chlordane	20.1	18.9	19.5	22.9	22.6	21.5	20.9	E3	7.08
12)	M	4,4'-DDE	18.0	17.1	17.8	22.0	21.9	21.0	19.6	E3	10.51
13)	M	Endosulfan I	17.8	16.8	16.2	21.0	20.9	20.0	18.8	E3	10.24
14)	M	Dieldrin	17.4	16.4	17.6	21.1	21.1	20.4	19.0	E3	10.16
15)	M	Endrin	12.9	12.4	13.9	14.9	15.0	14.5	13.9	E3	7.28
16)	M	4,4'-DDD	14.2	13.8	15.2	17.7	17.6	17.0	15.9	E3	10.03
17)	M	Endosulfan II	19.0	16.5	20.4	20.2	20.1	19.3	19.2	E3	7.01
18)	M	4,4'-DDT	11.2	10.6	10.1	14.5	14.7	14.5	12.6	E3	15.87
19)	M	Endrin Aldehyde	16.2	15.3	16.7	17.8	17.3	16.5	16.6	E3	4.88
20)	M	Methoxychlor	7.8	7.2	7.1	9.6	9.5	9.2	8.4	E3	12.38
21)	M	Endosulfan Sulfate	16.4	15.2	16.9	18.9	18.4	17.7	17.2	E3	7.14
22)	M	Endrin Ketone	21.4	19.5	21.8	25.6	24.9	24.0	22.9	E3	9.35
23)	S	Decachlorobiphenyl	20.5	18.3	20.6	21.1	20.0	19.0	19.8	E3	4.97

(#) = Out of Range ### Number of calibration levels exceeded format ###
8081EC.M Fri Jun 09 14:35:17 2006 Page 1

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE060906\002F0101.D Vial: 2
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE060906\002F0101.D\002R0101.D
Acq On : 09 Jun 06 10:04 AM Operator: [GC]2R0101.D\DATA.MS
Sample : PEM Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 9 14:46 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EC.M
Title :
Last Update : Fri Jun 09 14:29:36 2006
Response via : Multiple Level Calibration

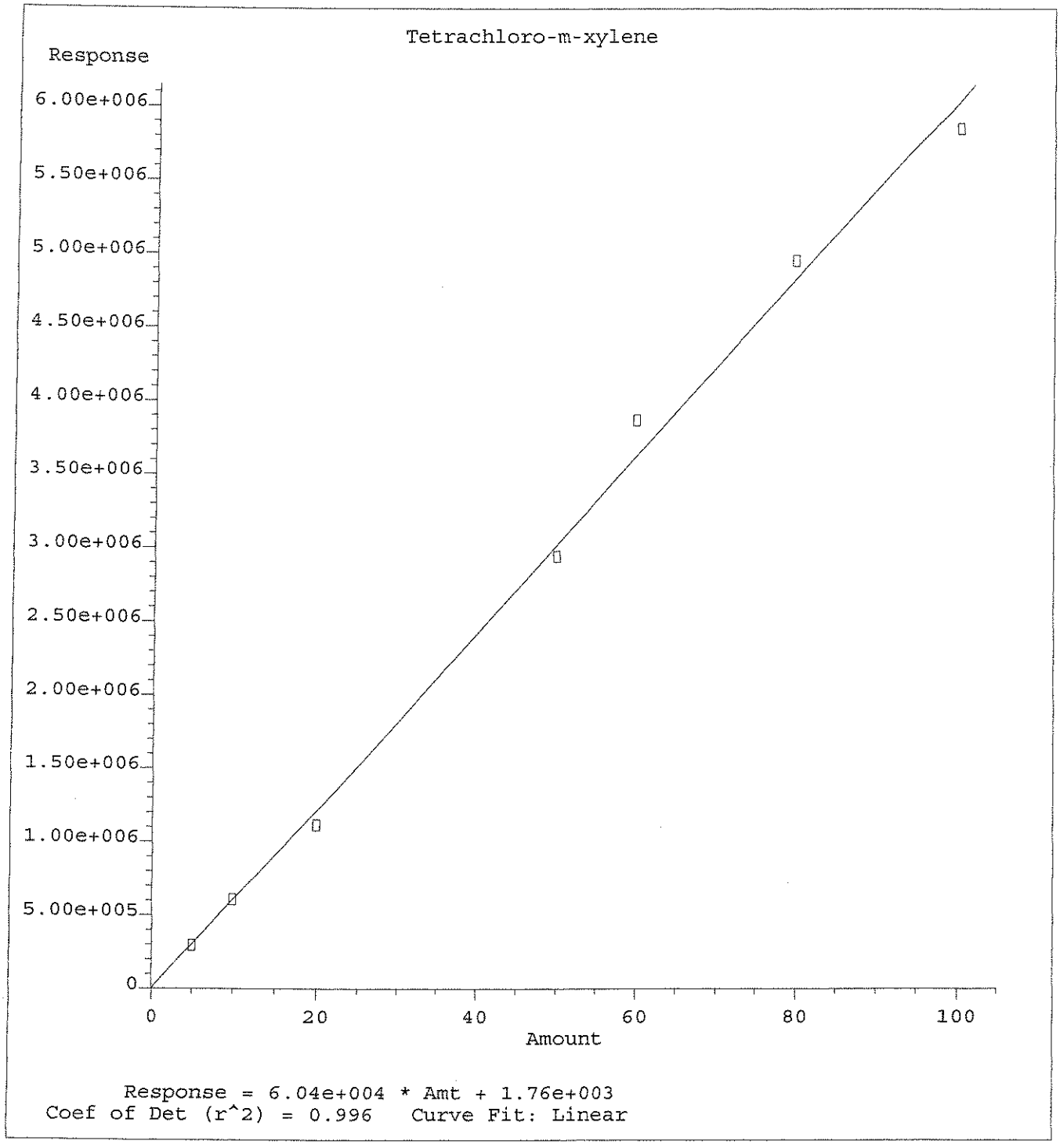
Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.74	8.86	2283406	780504	37.794	36.526
					Recovery	=	75.59%	73.05%
23)	S	Decachlorobiphenyl	18.25	20.95	1441470	654704	32.613	33.022
					Recovery	=	65.23%	66.04%
		Target Compounds						
2)	M	Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3)	M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	M	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
5)	M	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6)	M	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	M	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
8)	M	Aldrin	0.00	0.00	0	0	N.D.	N.D.
9)	M	Heptachlor Epoxide	0.00	0.00	0	0	N.D.	N.D.
10)	M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12)	M	4,4'-DDE	13.18	14.57	2365	1759	0.741m	2.269m#
13)	M	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
14)	M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15)	M	Endrin	14.14	15.46	3811998	1398997	90.870m	95.506m
16)	M	4,4'-DDD	14.24	15.58	57708	104302	3.416m	8.185m#
17)	M	Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18)	M	4,4'-DDT	14.69	16.09	3735996	1304142	85.759	90.341
19)	M	Endrin Aldehyde	15.24	16.38	15309	17111	0.005m	1.445m#
20)	M	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	M	Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22)	M	Endrin Ketone	16.43	17.98	50515	11062	N.D.m	2.081m

Σ $\frac{65824}{3877822} = 1.70\%$ DDT $\frac{60073}{3796069} = 1.58\%$

Σ $\frac{28173}{1427170} = 1.97\%$ DDT $\frac{106061}{1410203} = 7.52\%$

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



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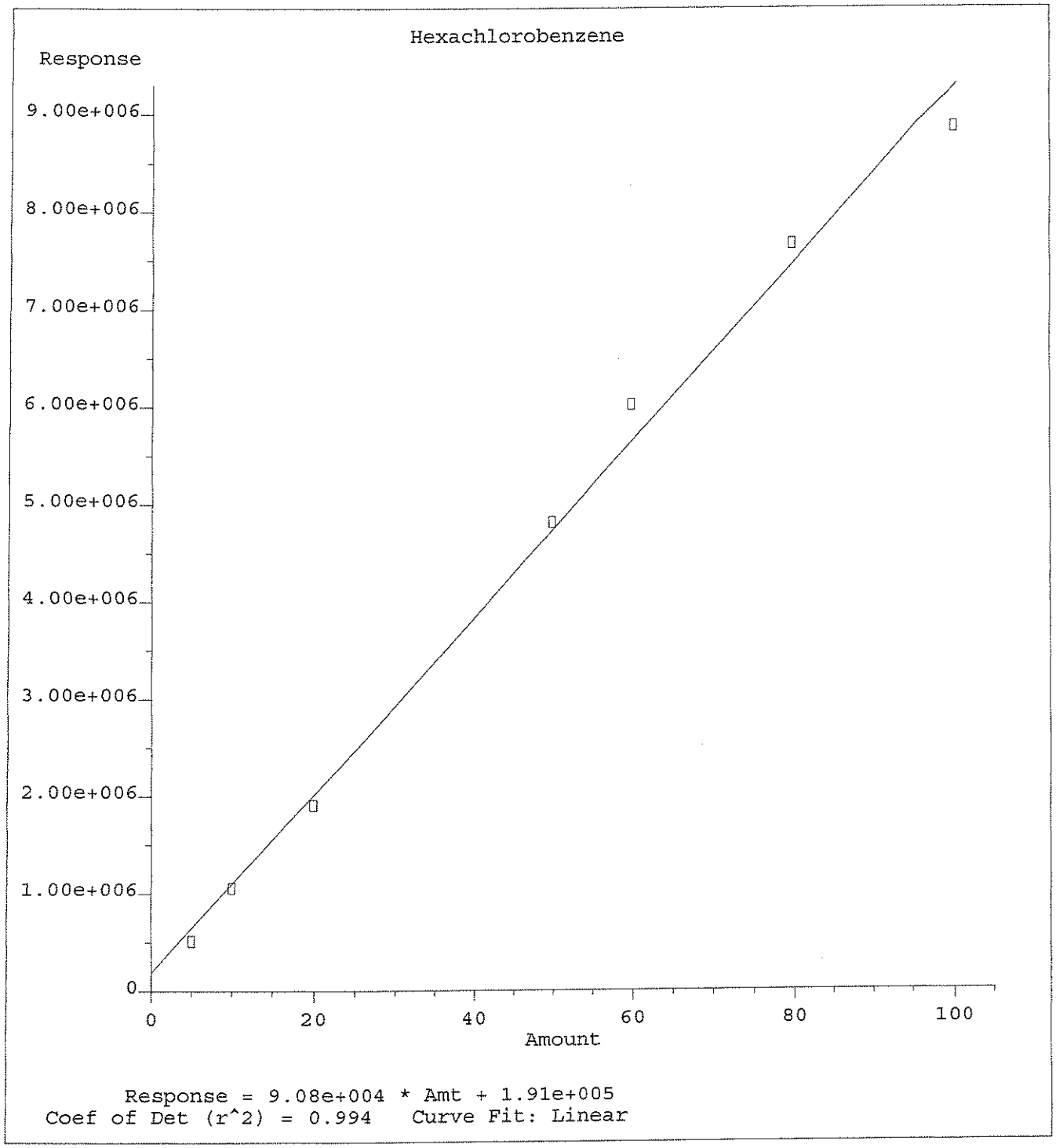
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006



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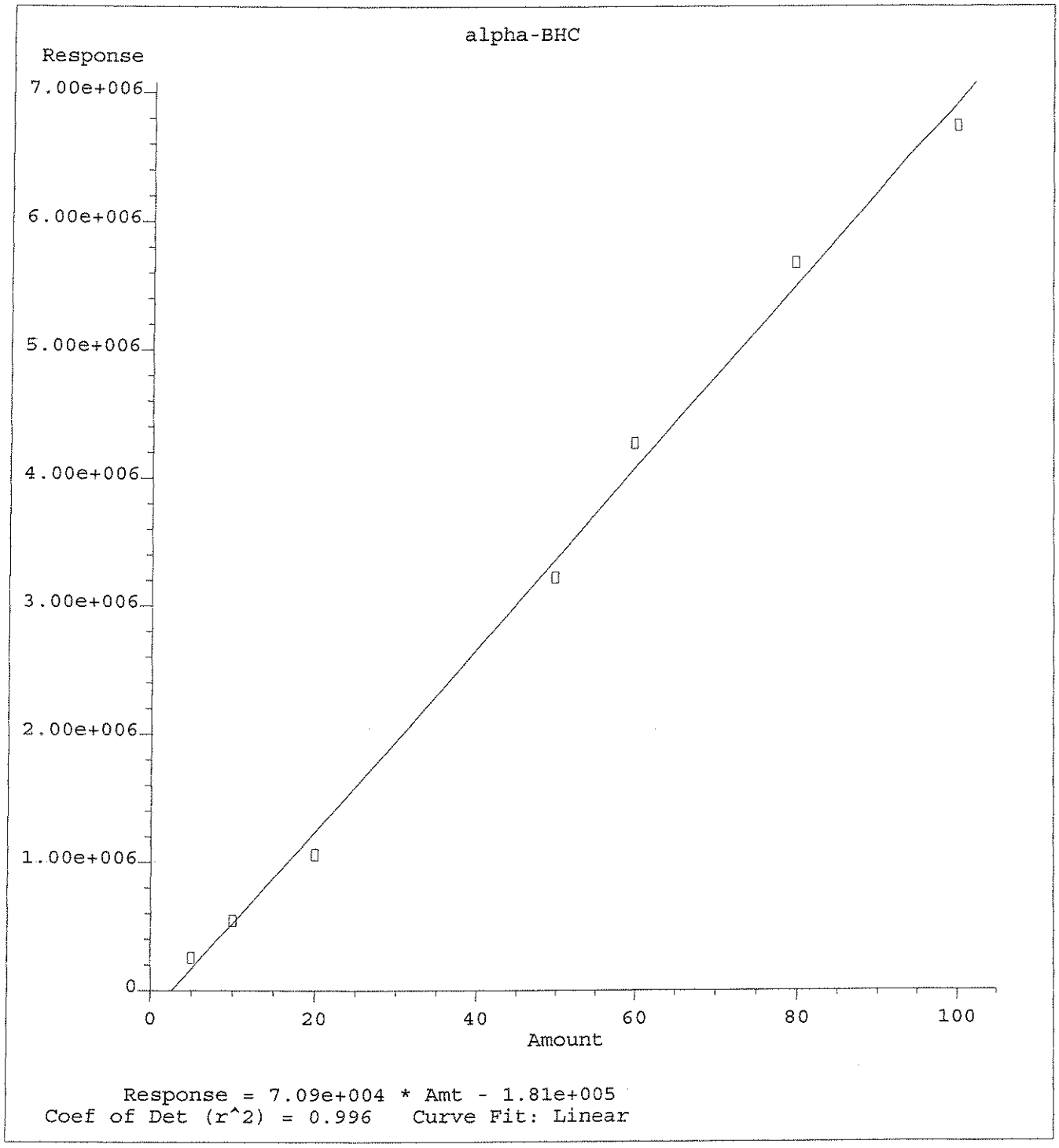

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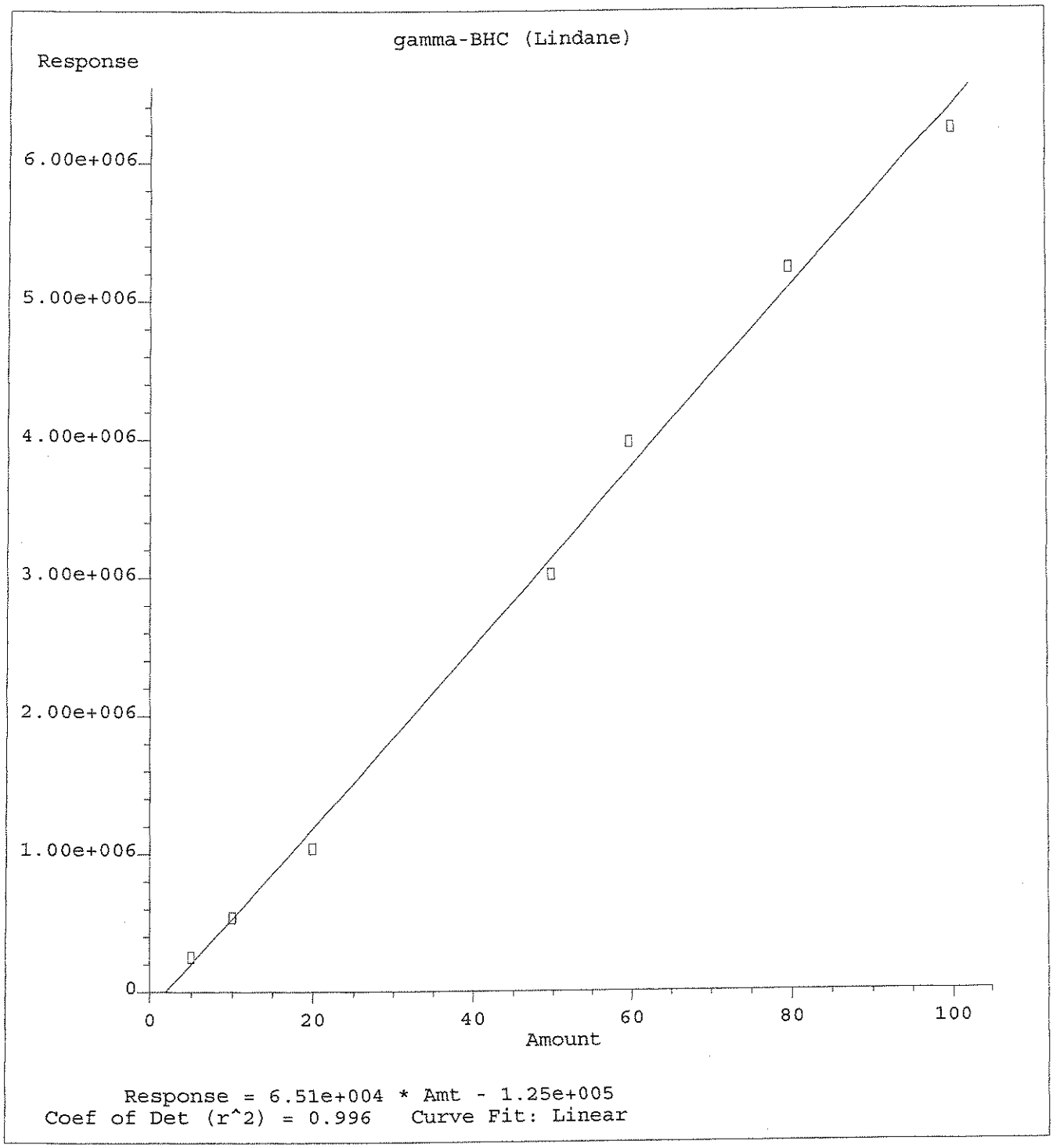

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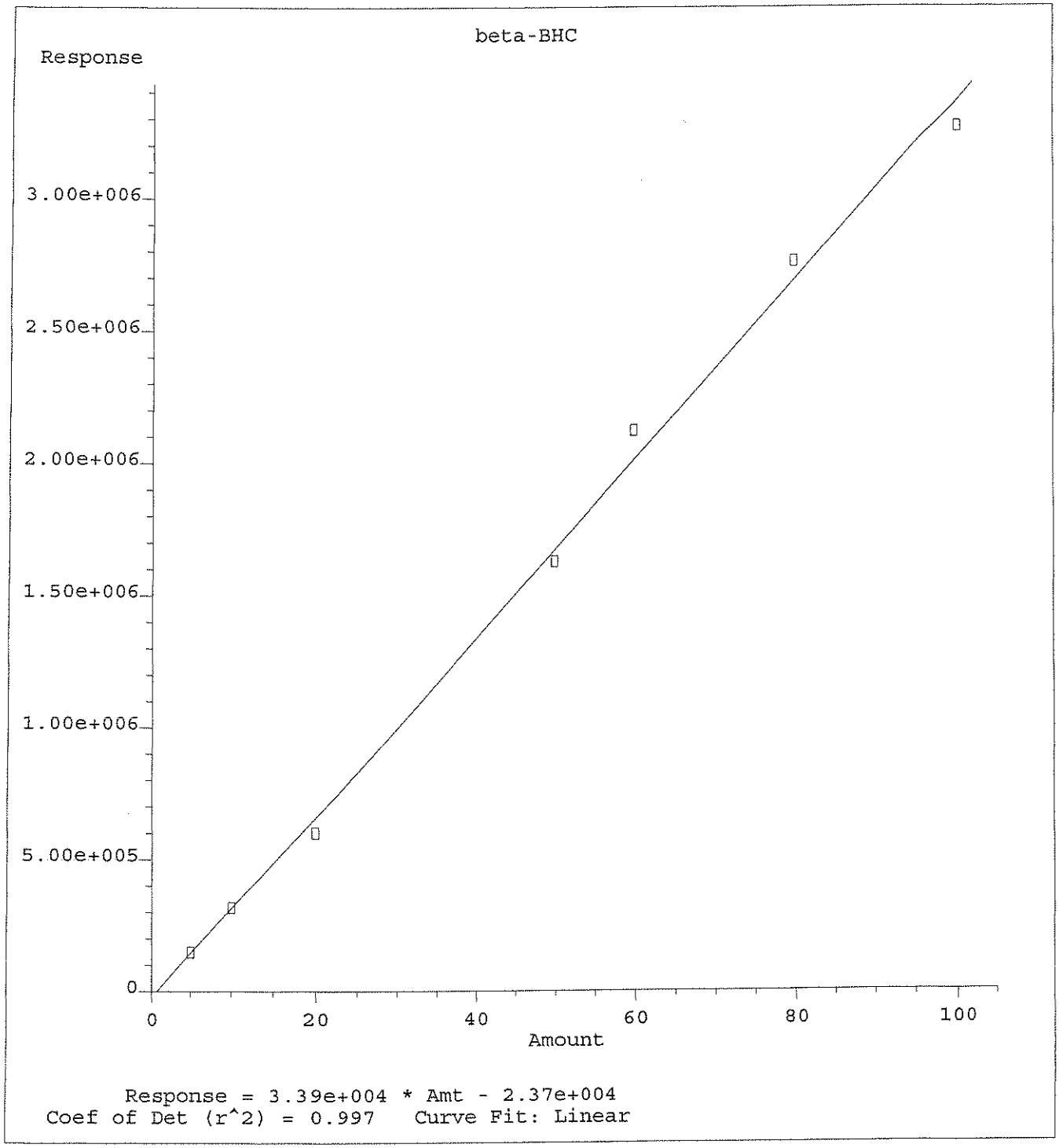

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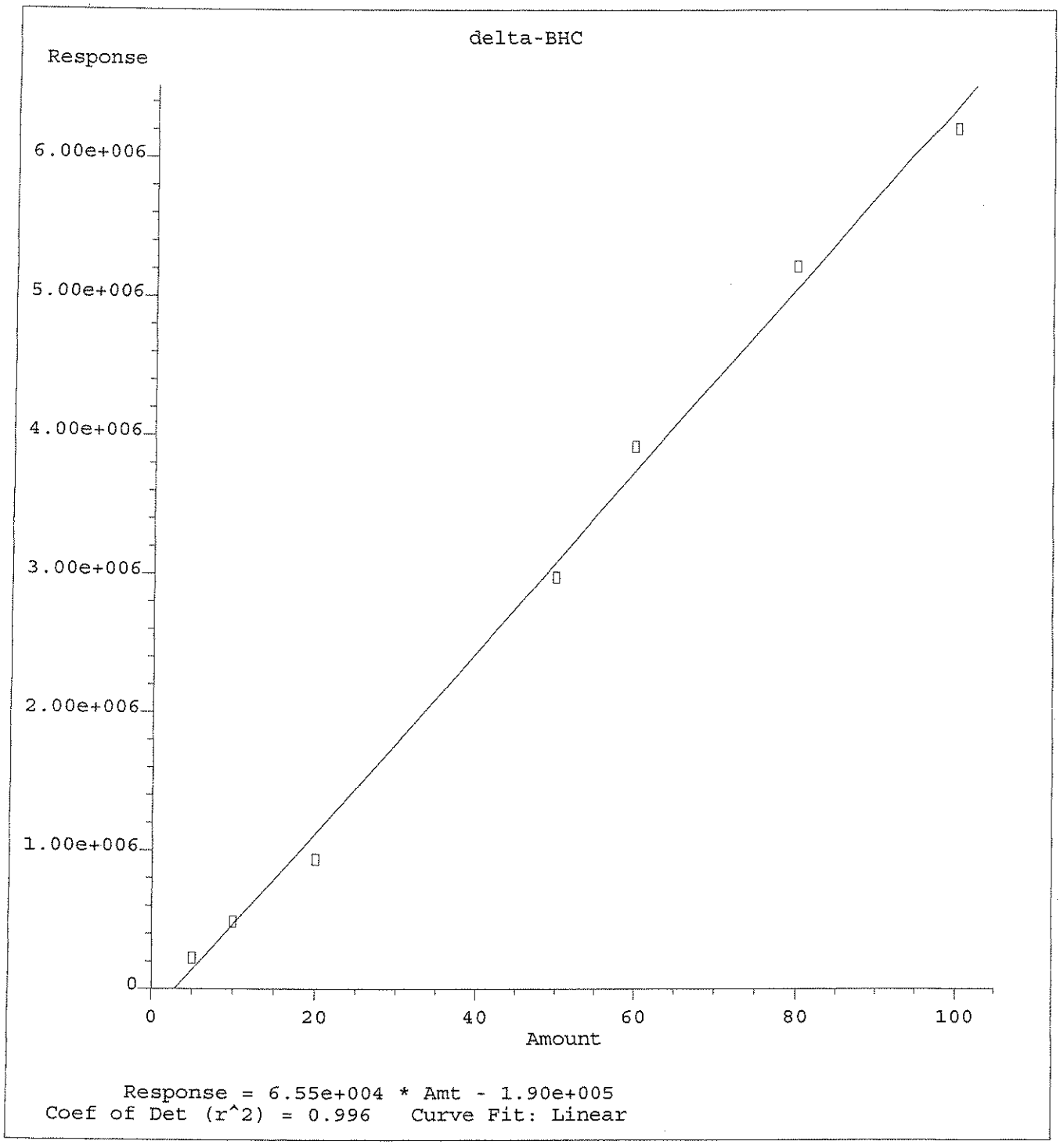

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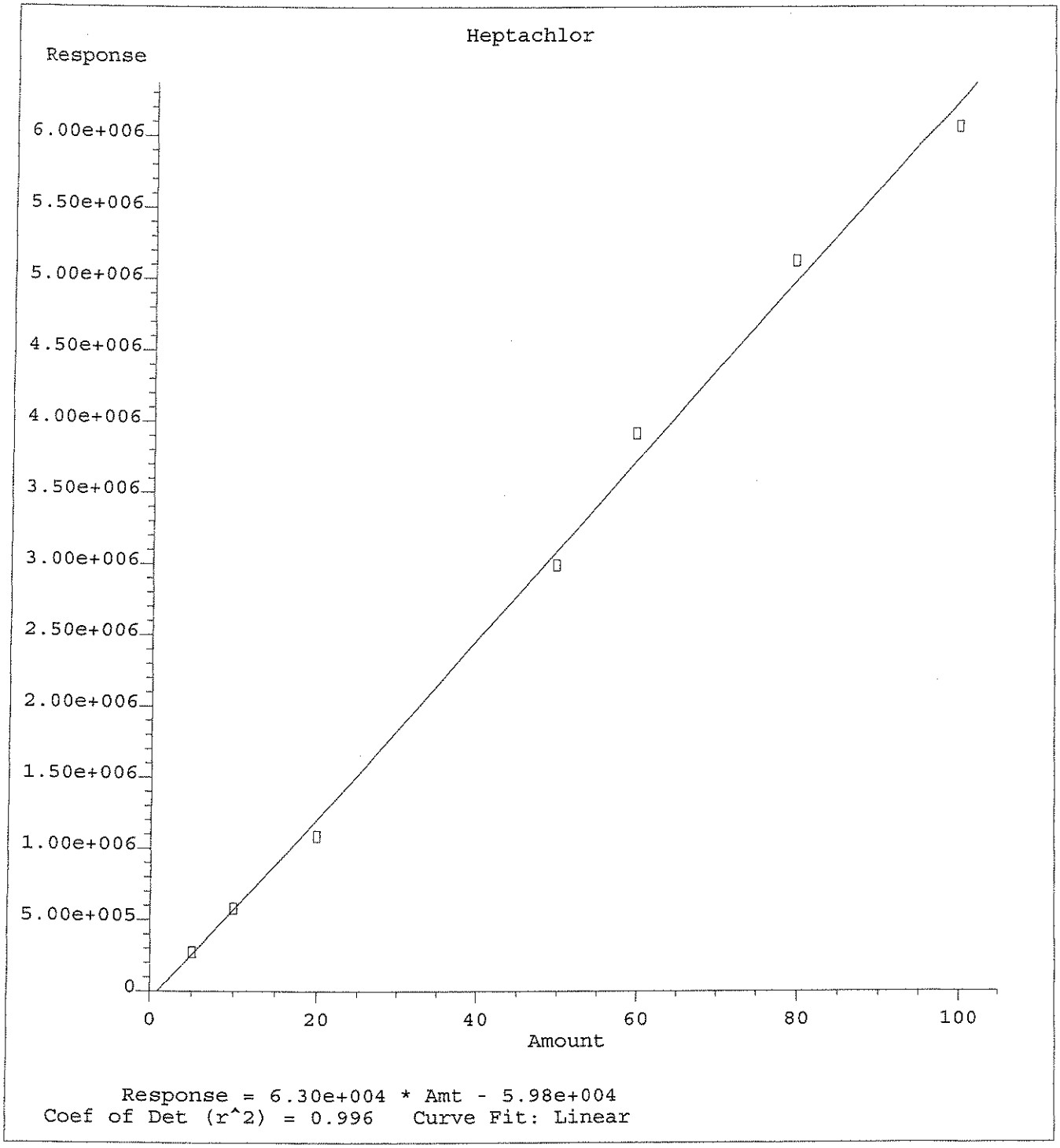

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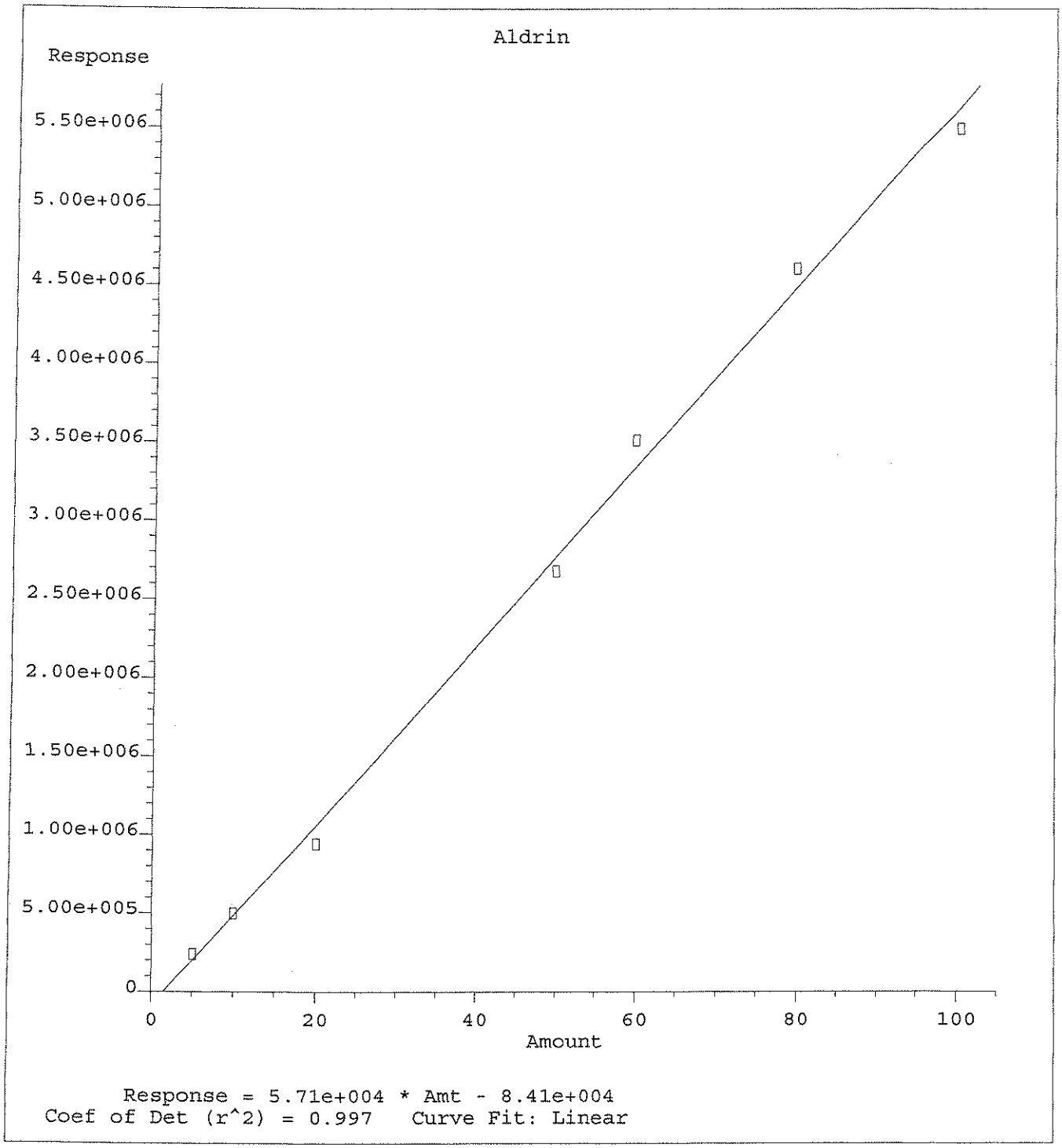

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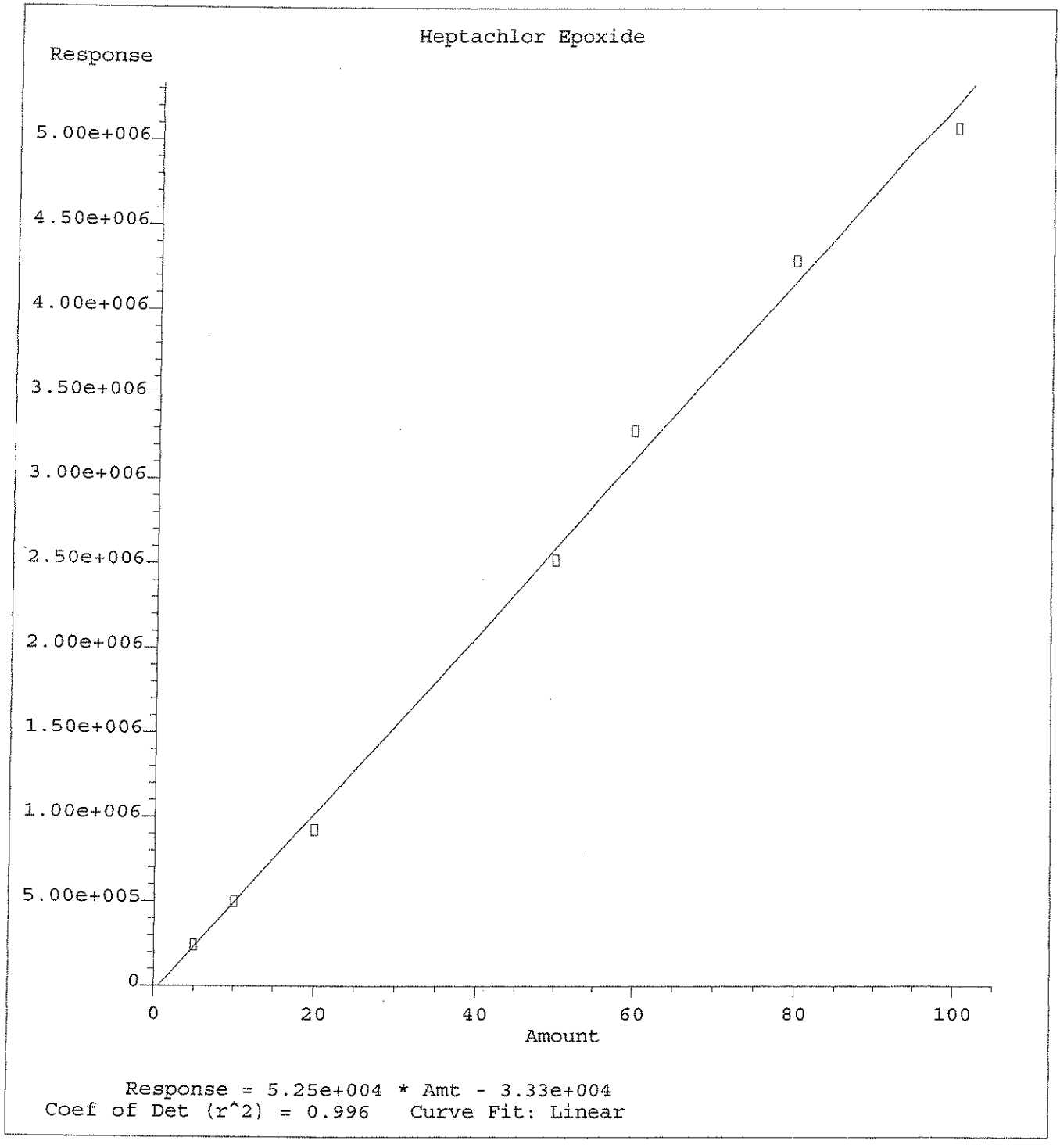

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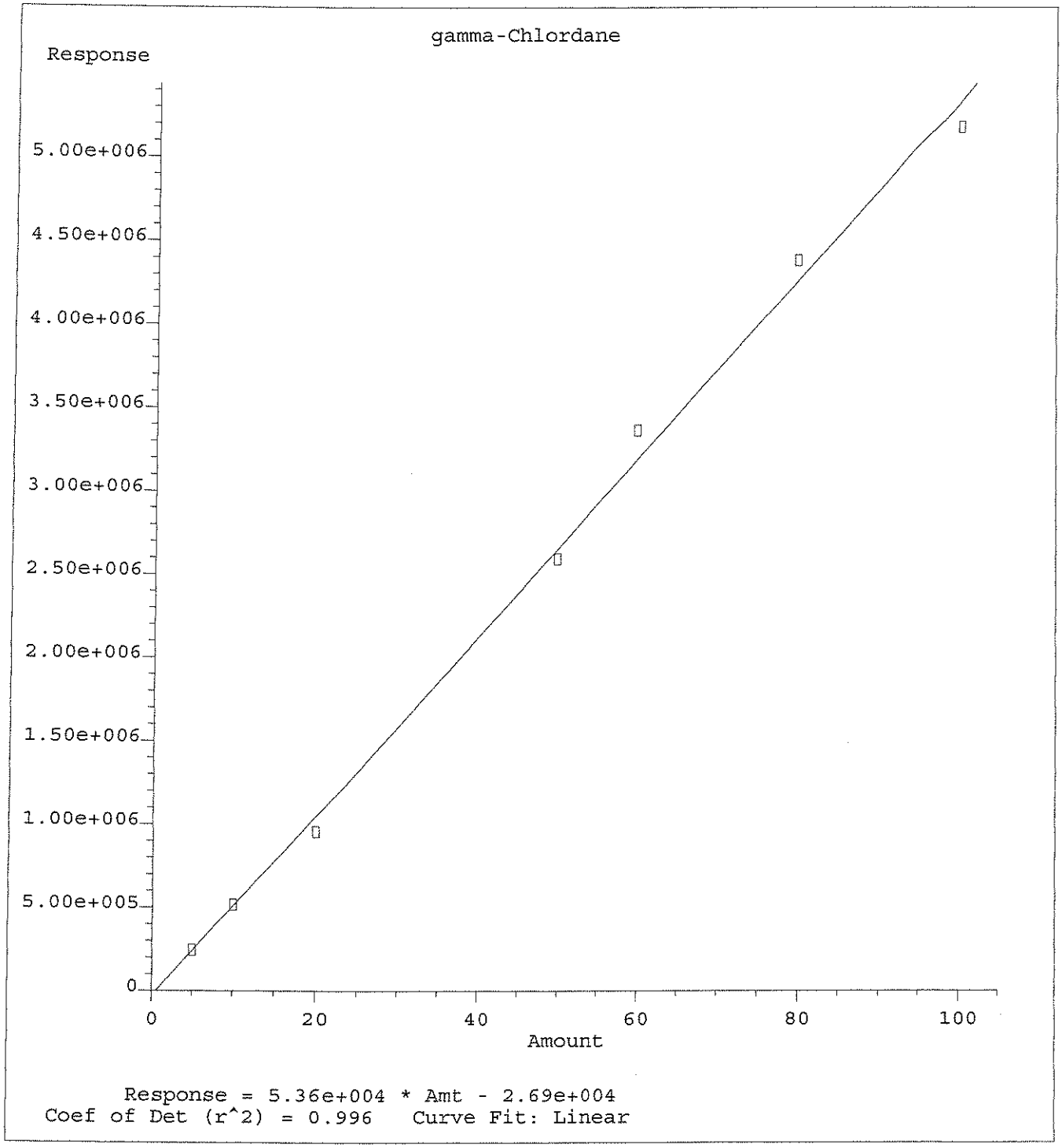

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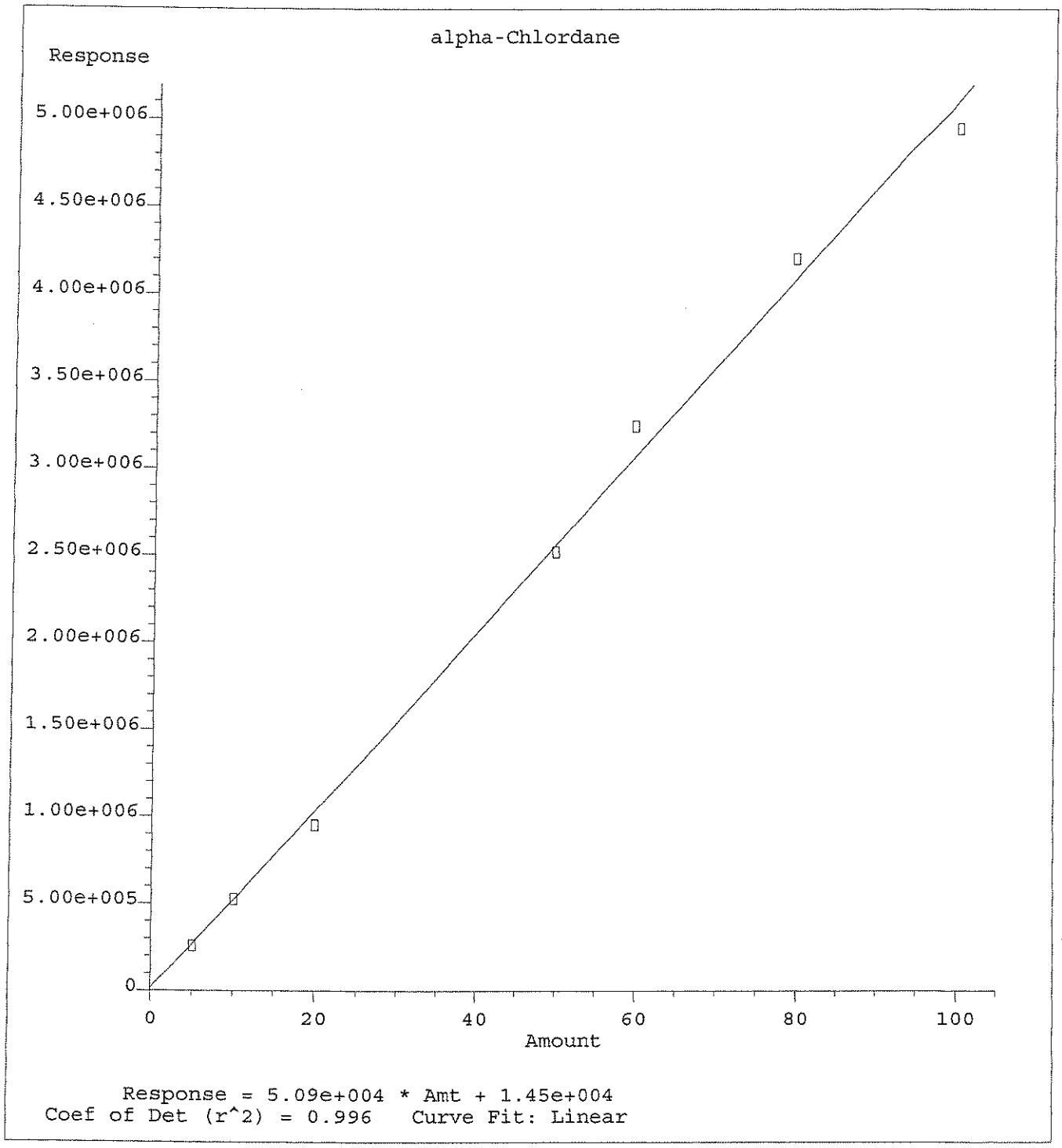

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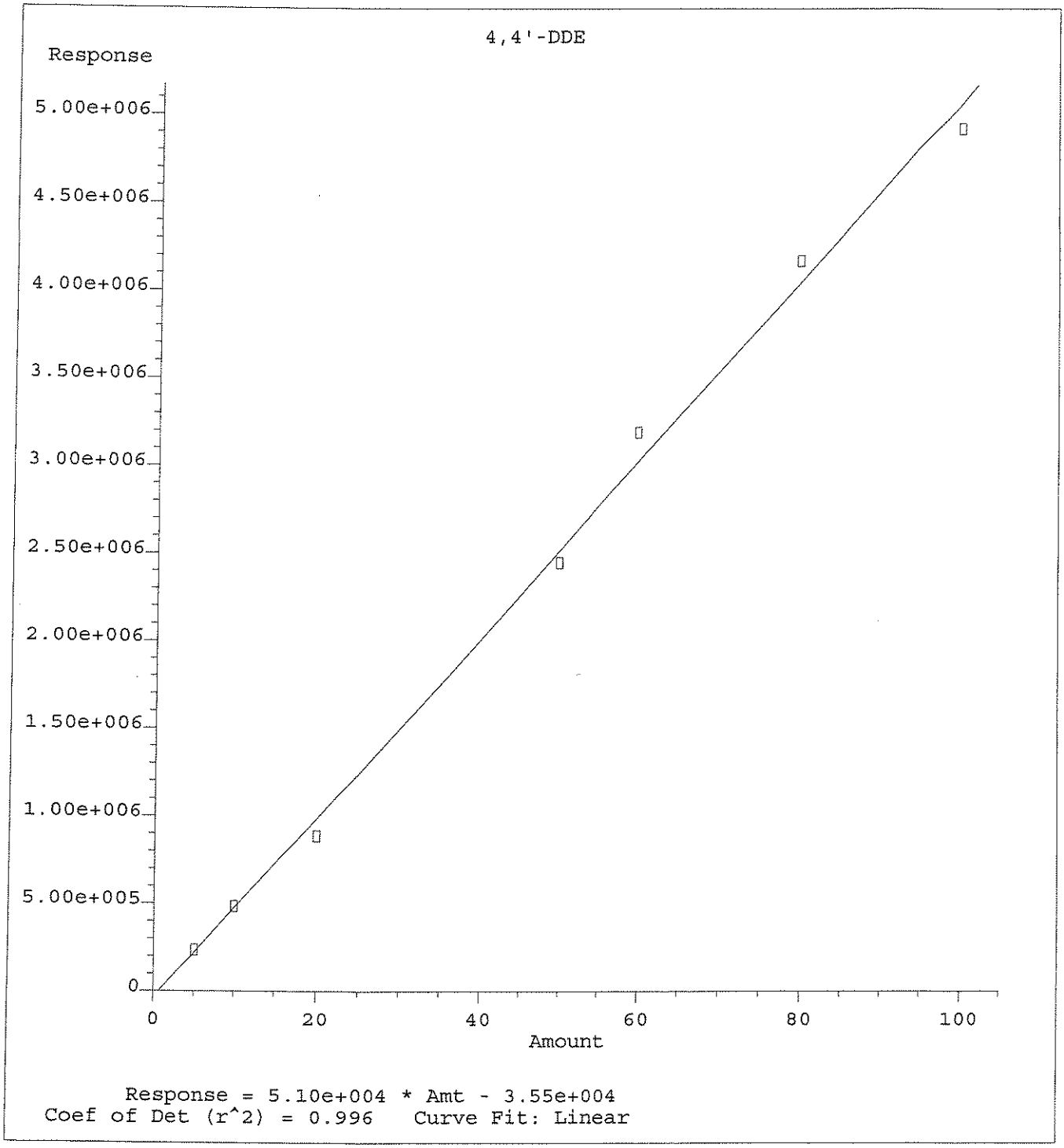

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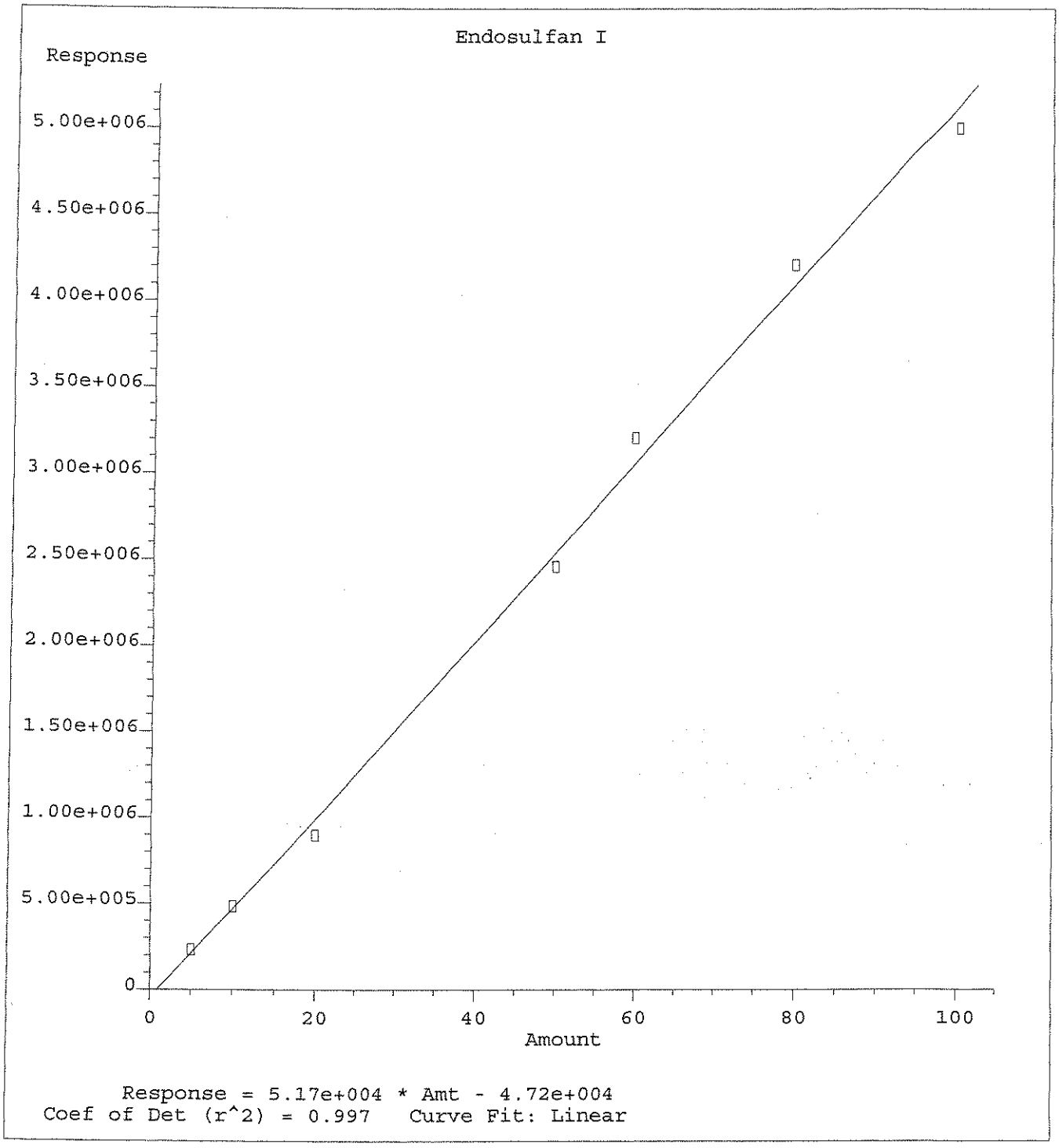

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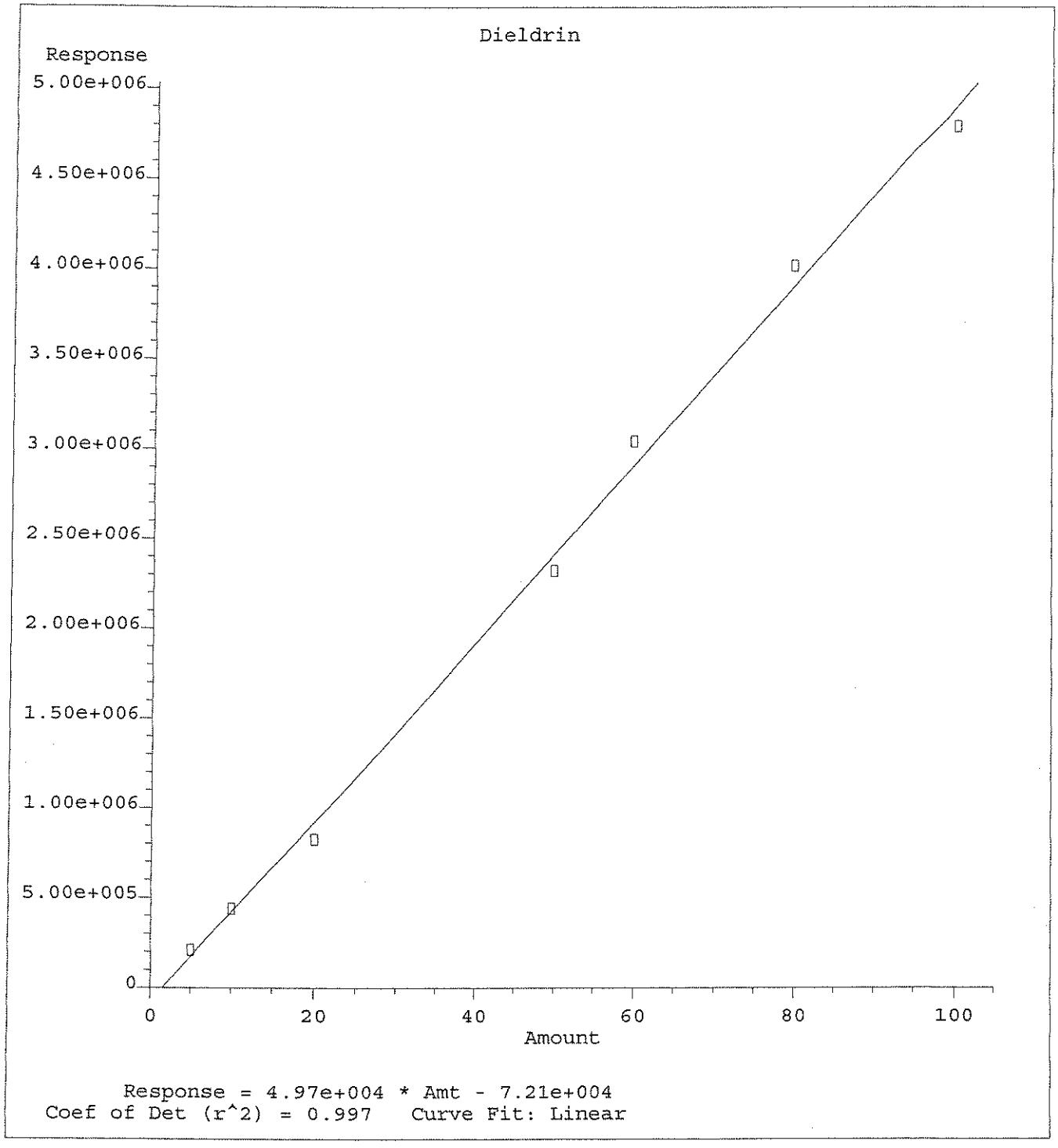

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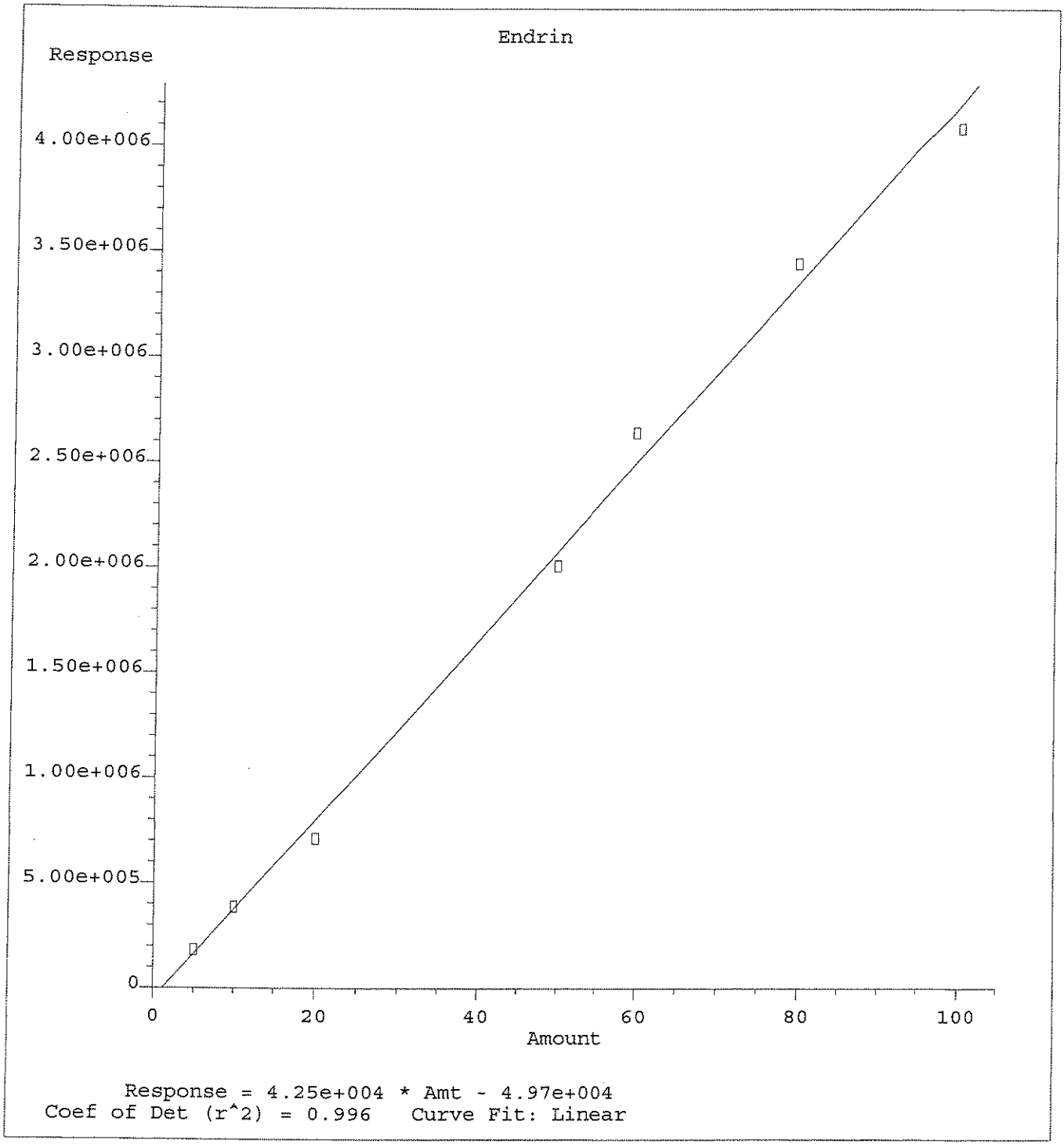

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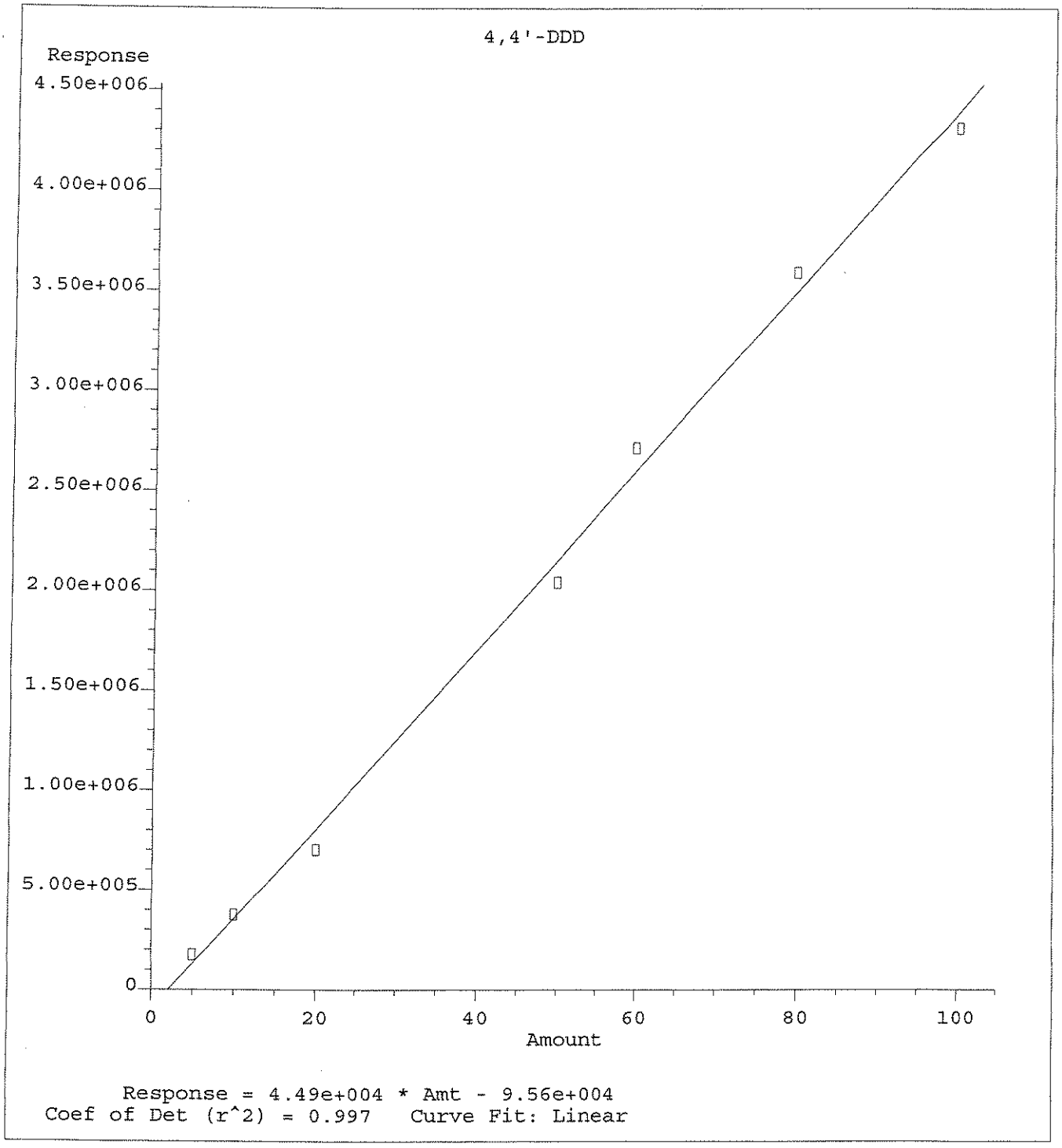

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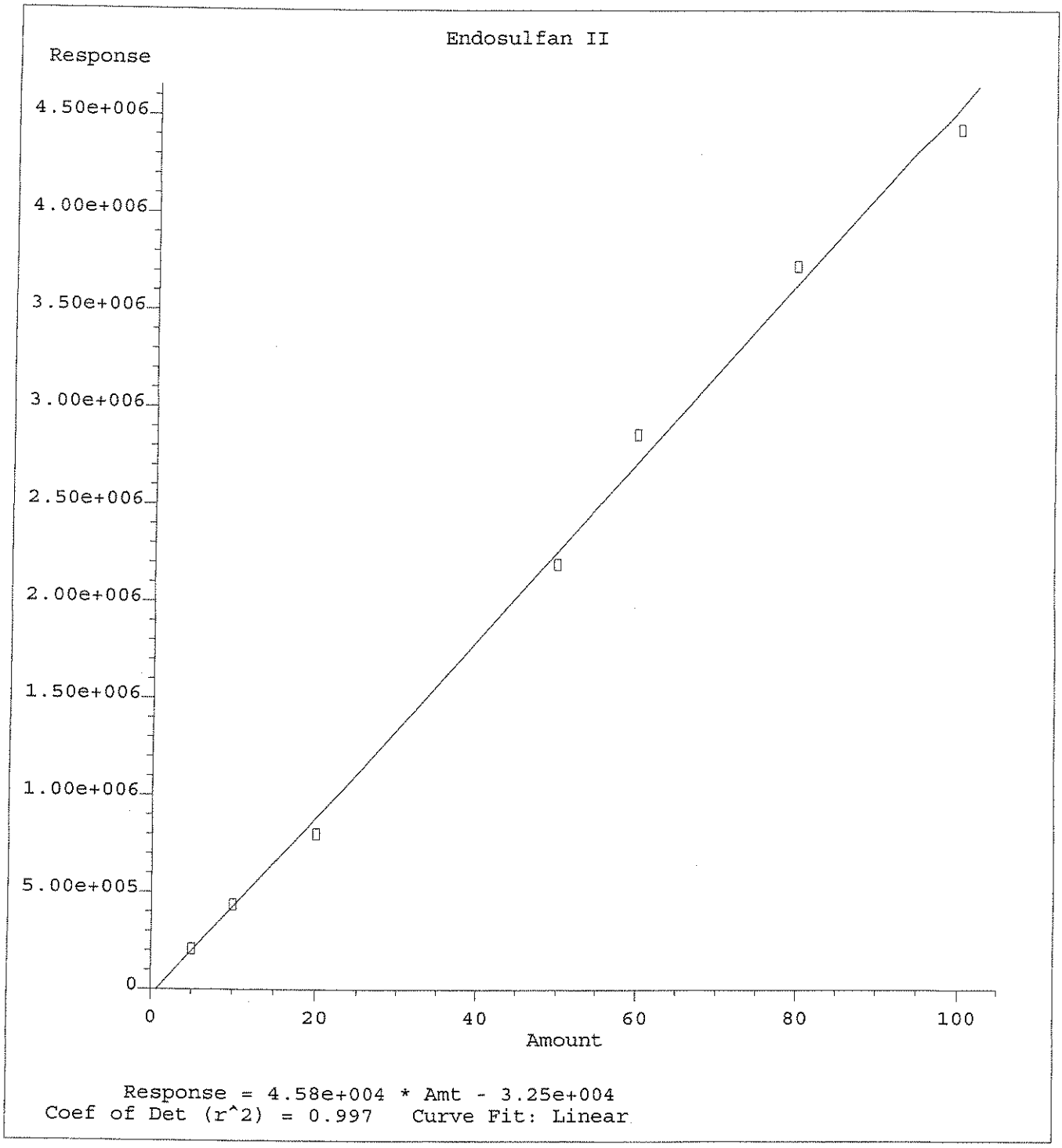

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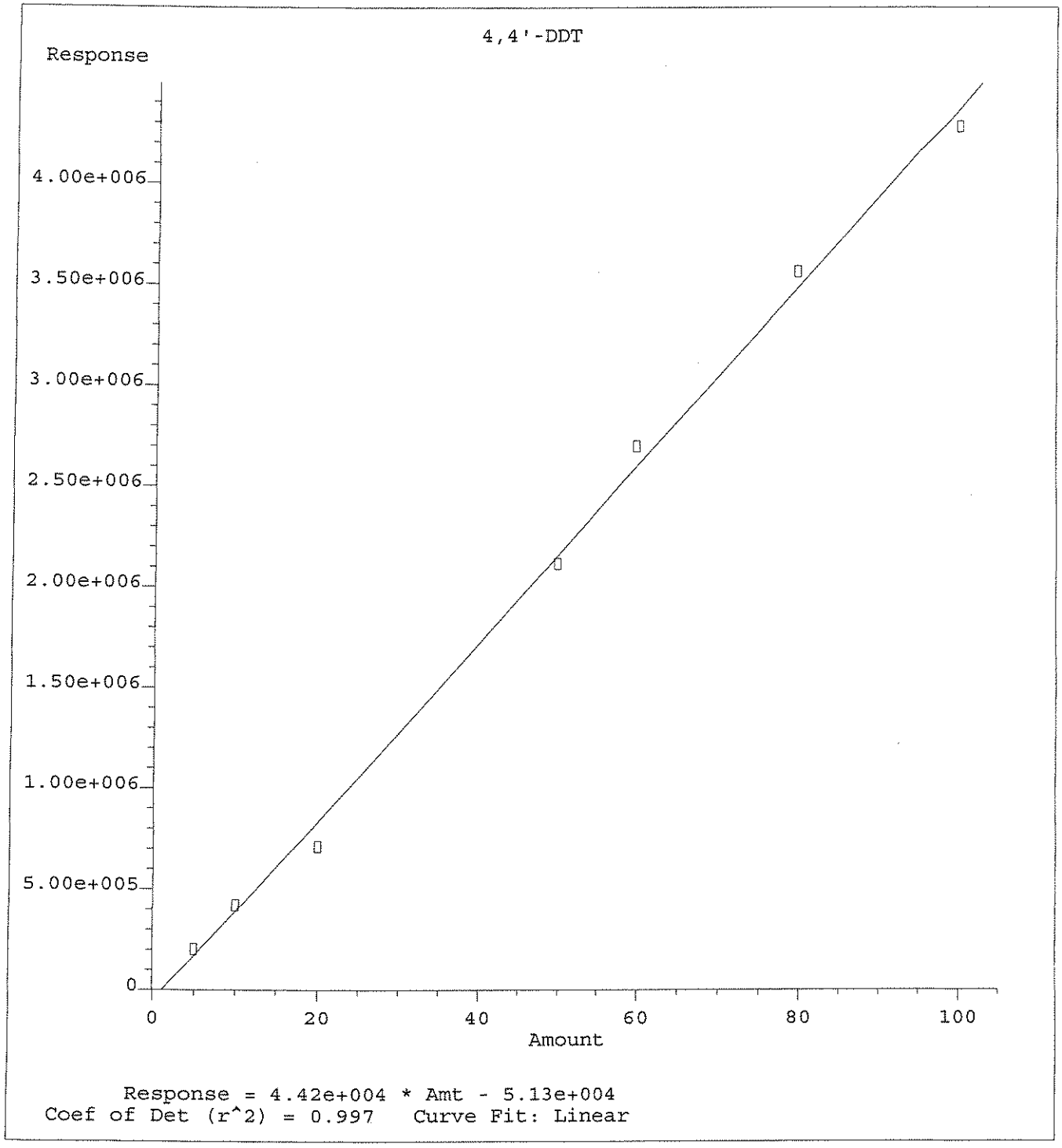

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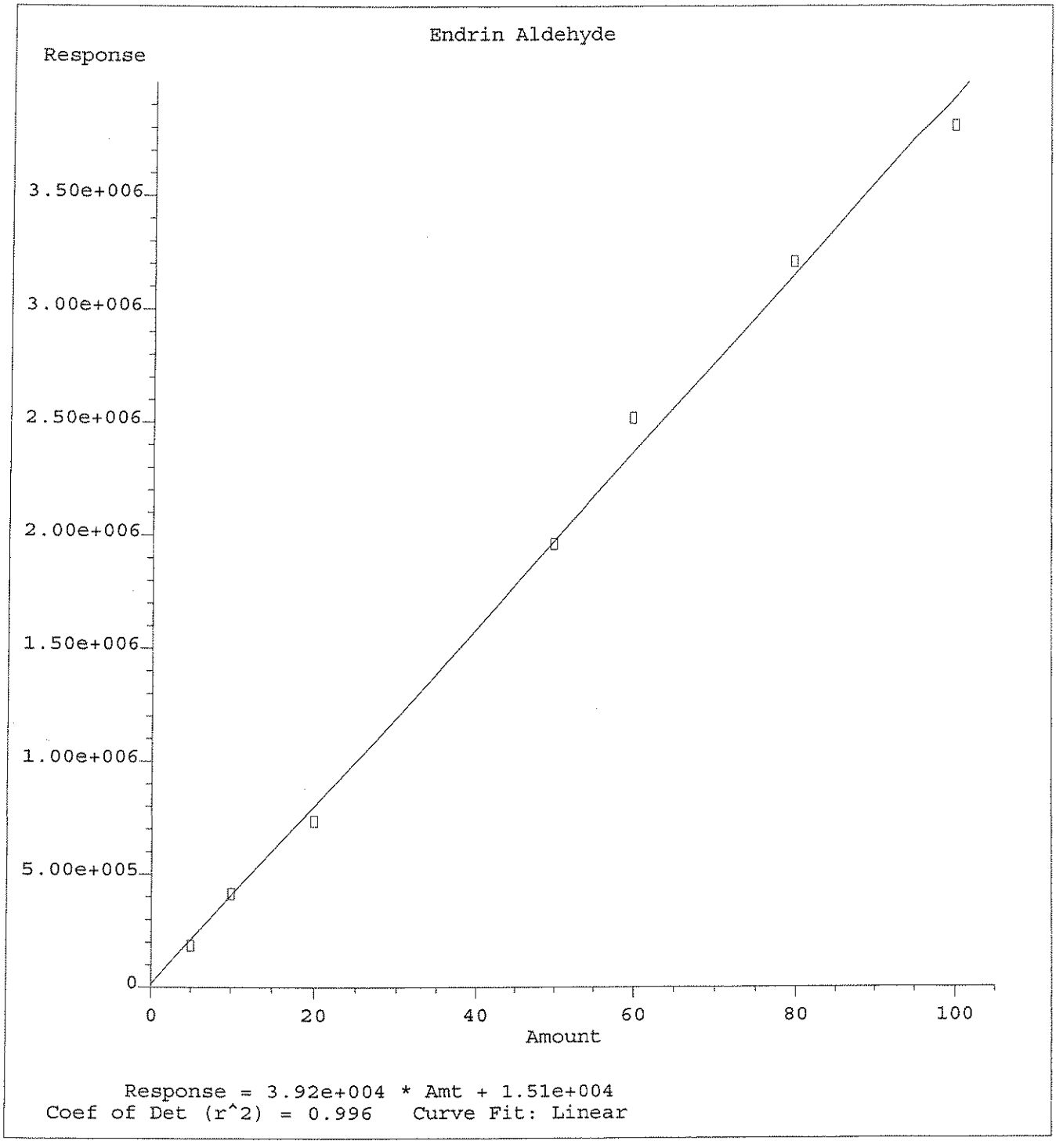

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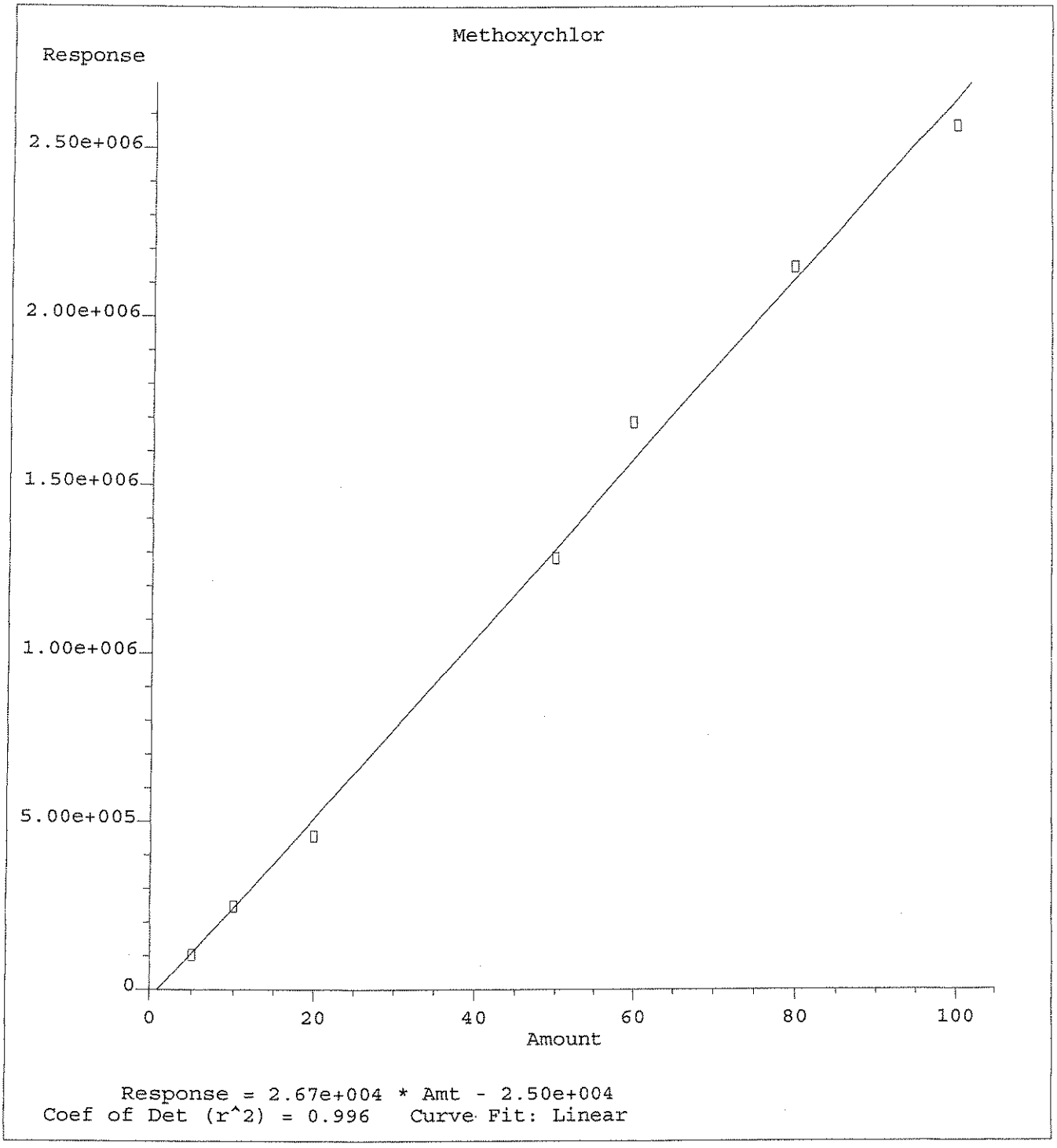

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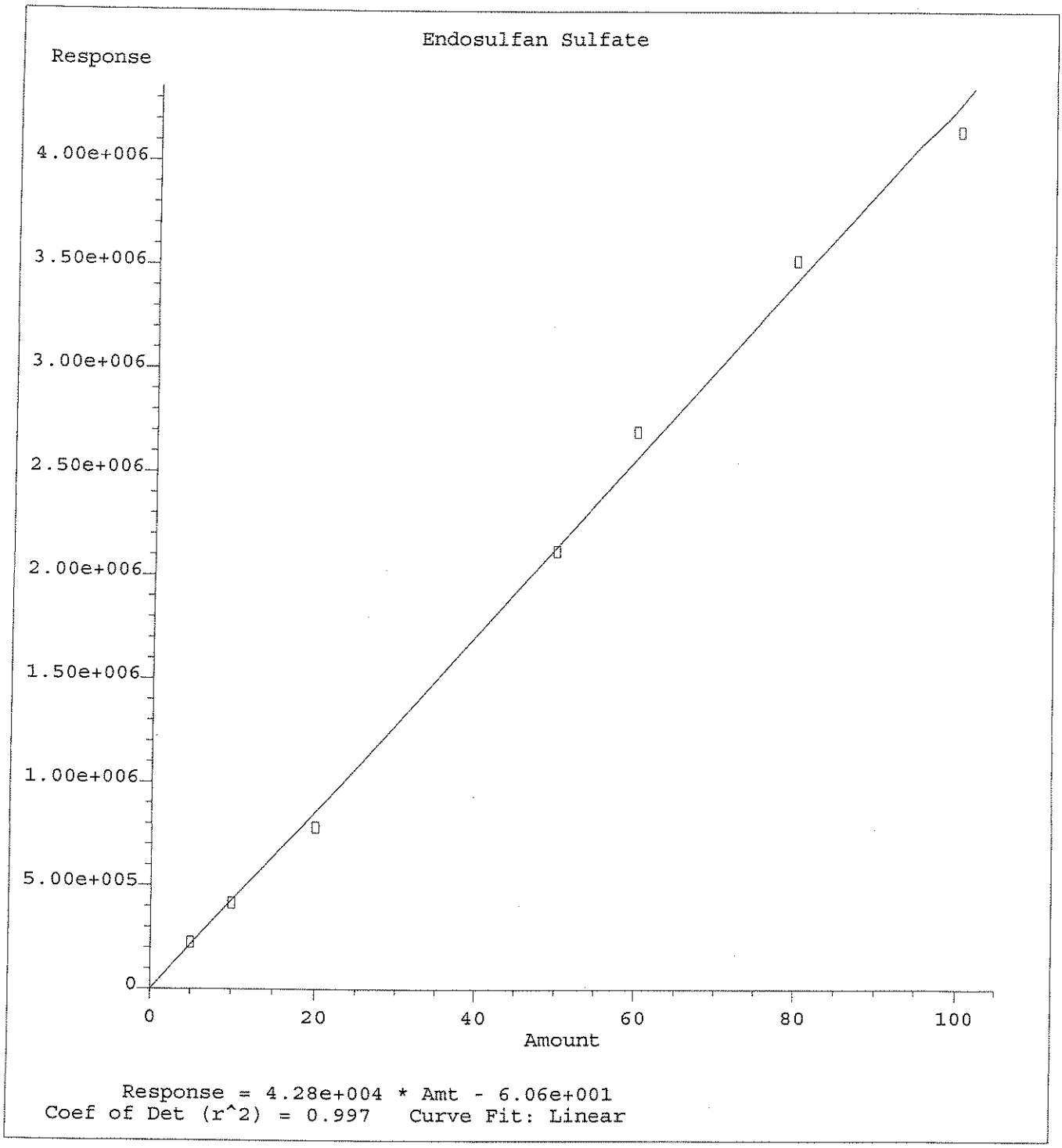

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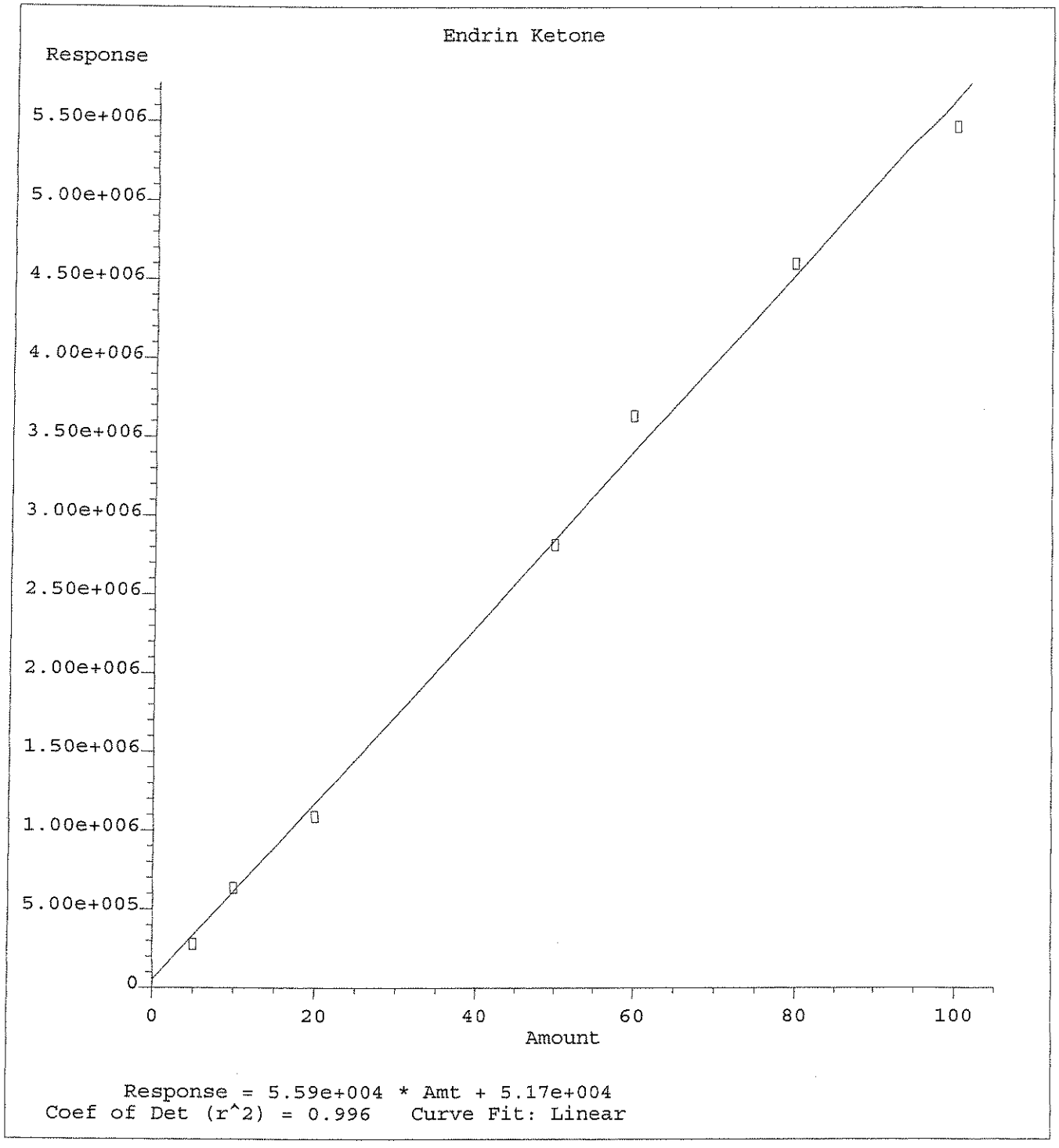

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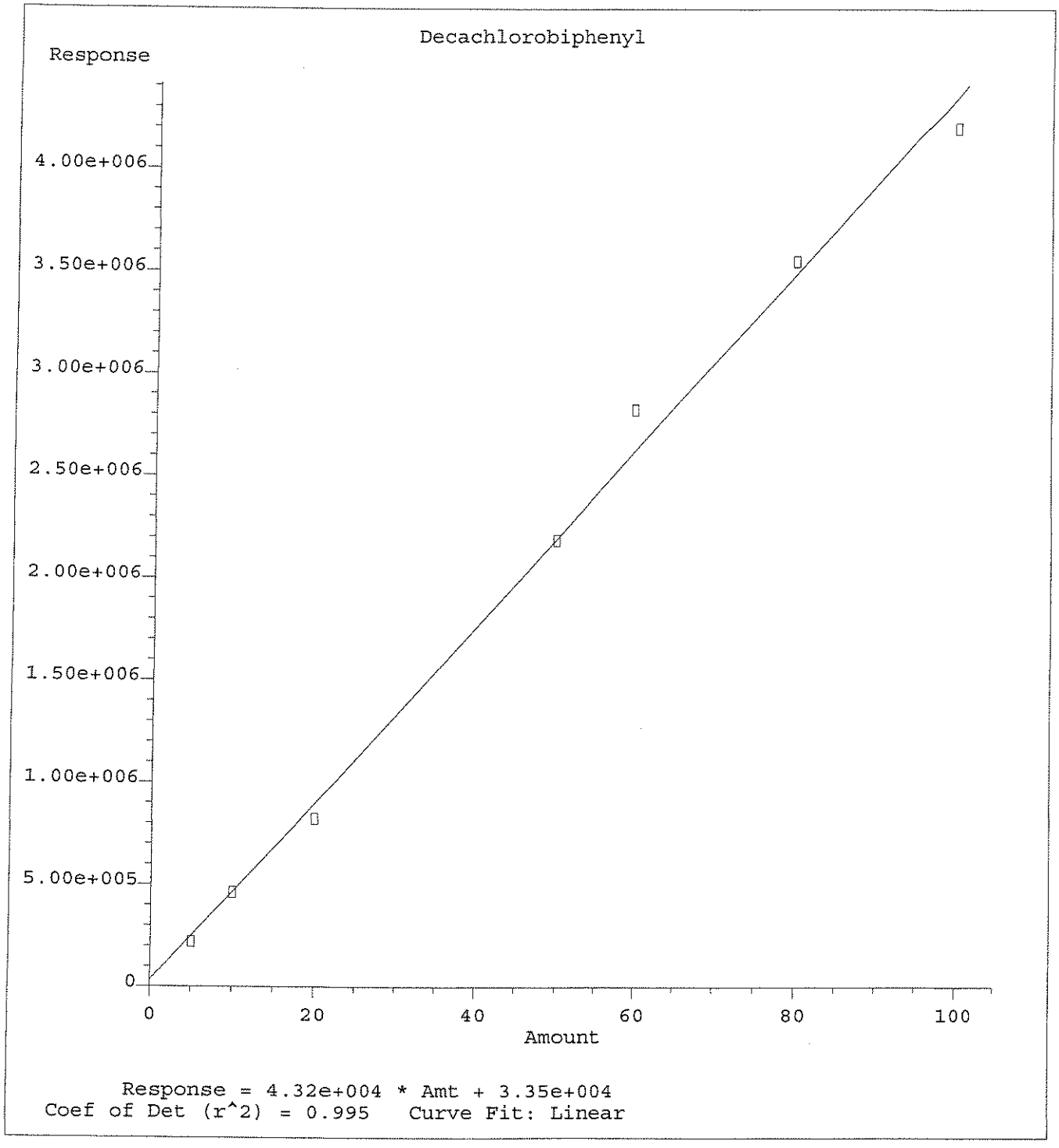

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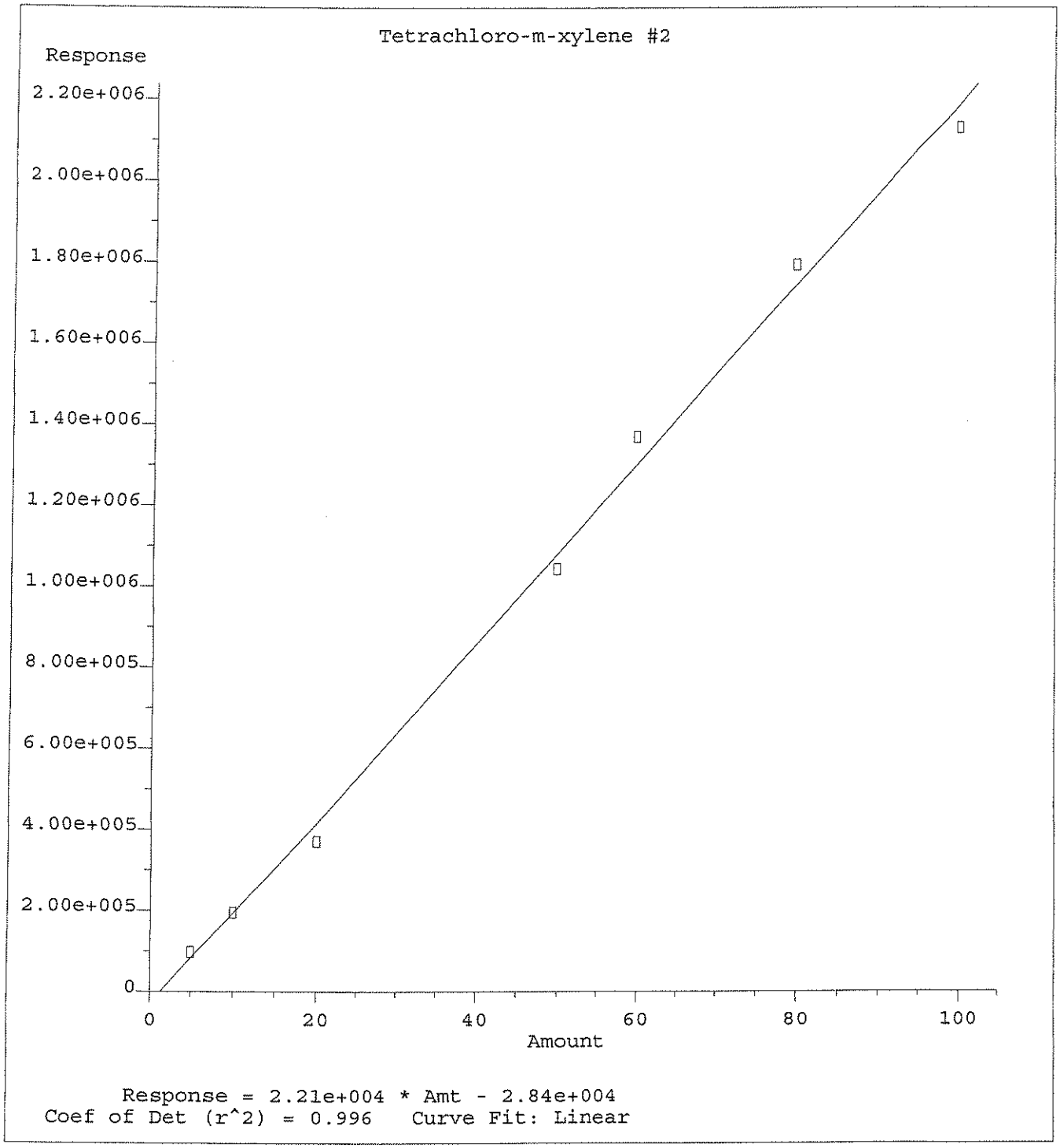

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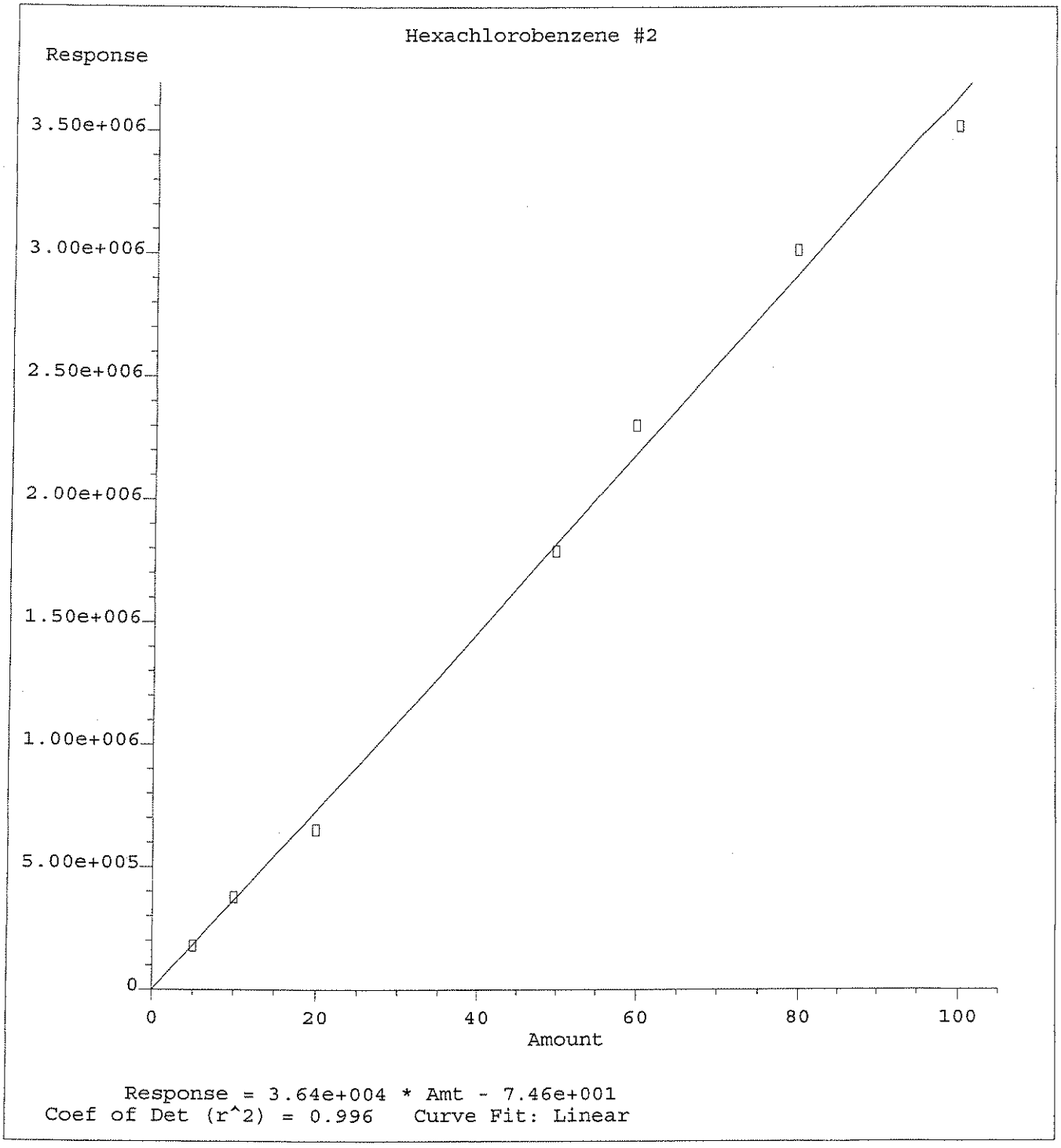

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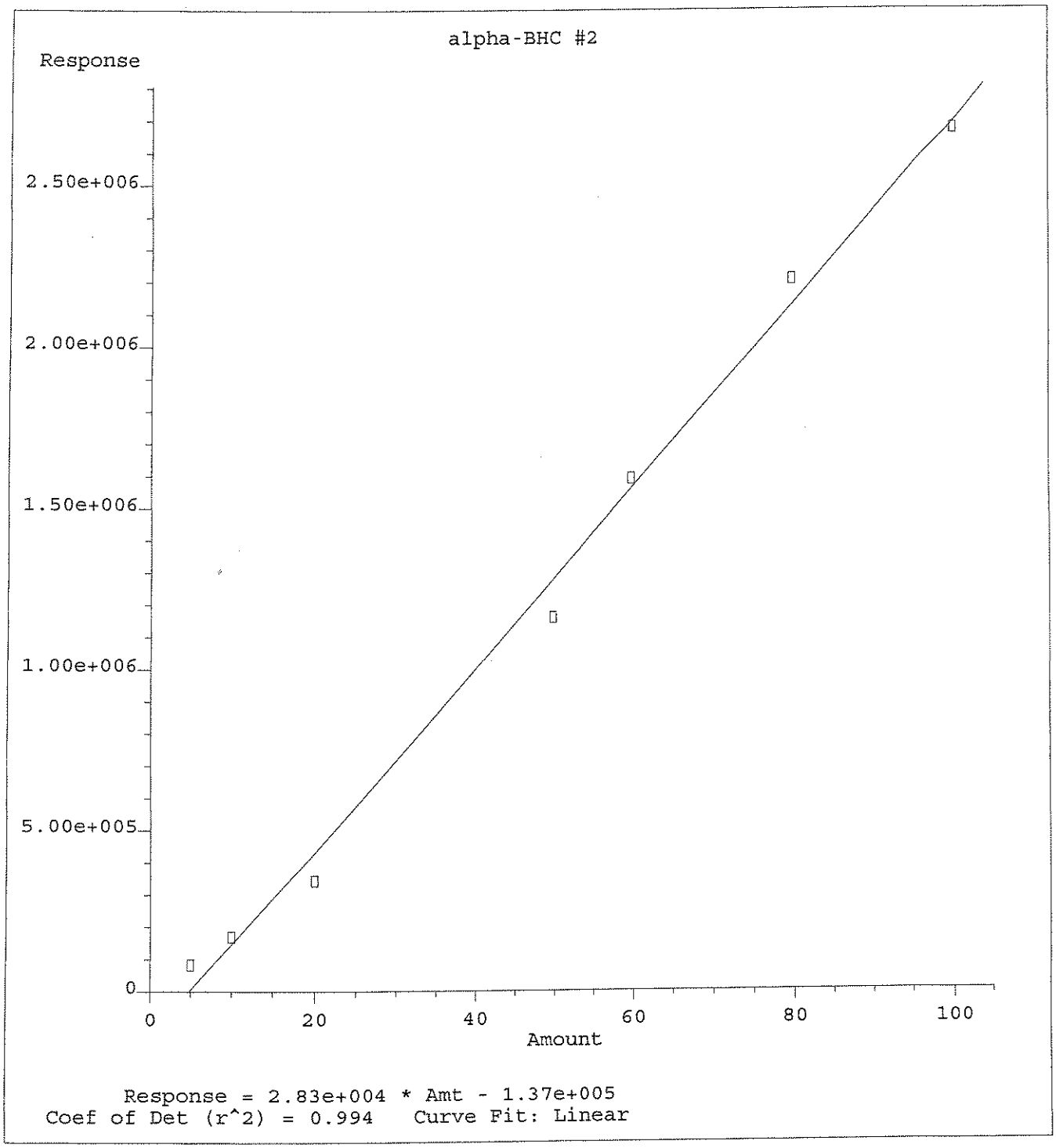

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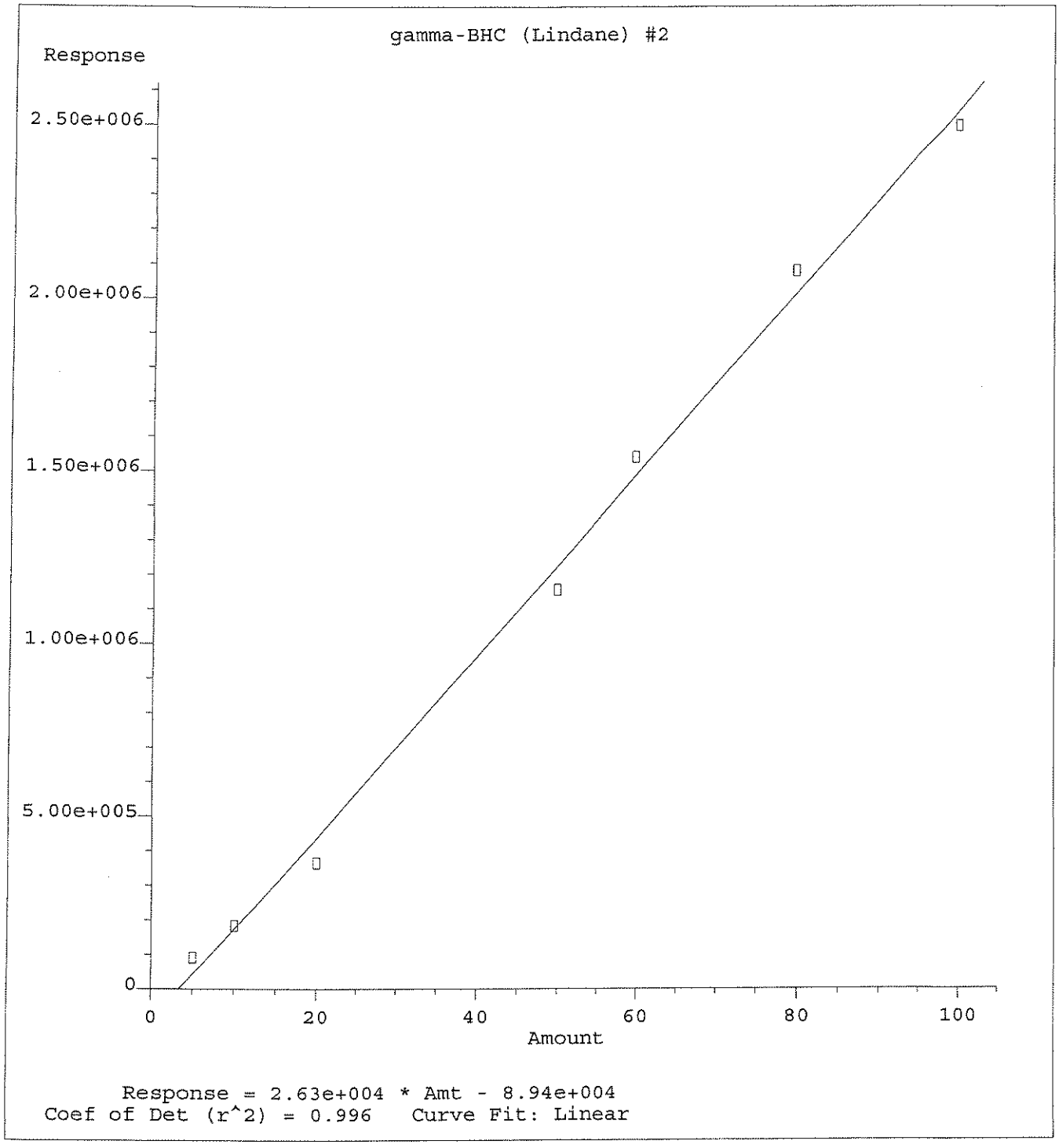

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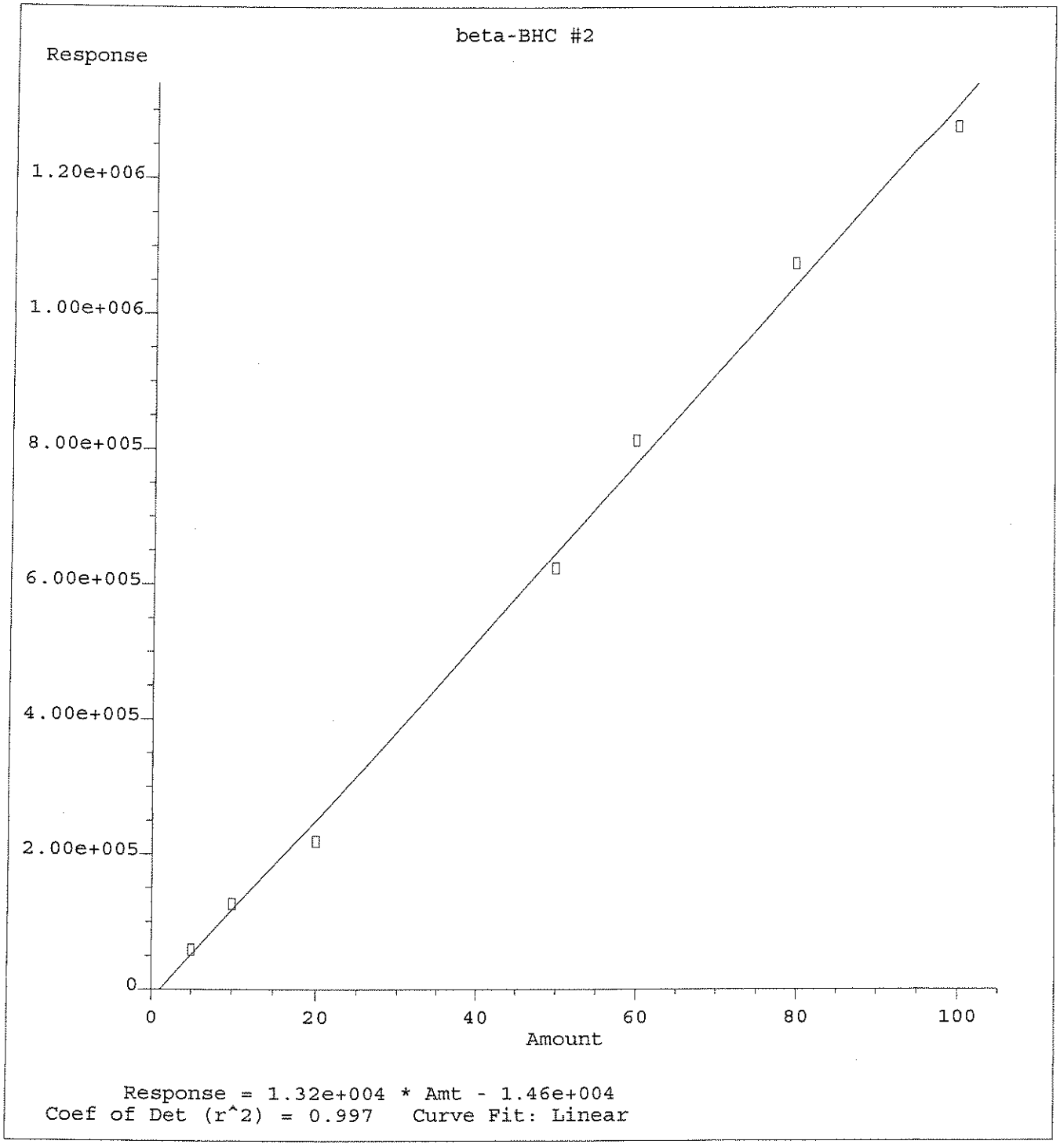

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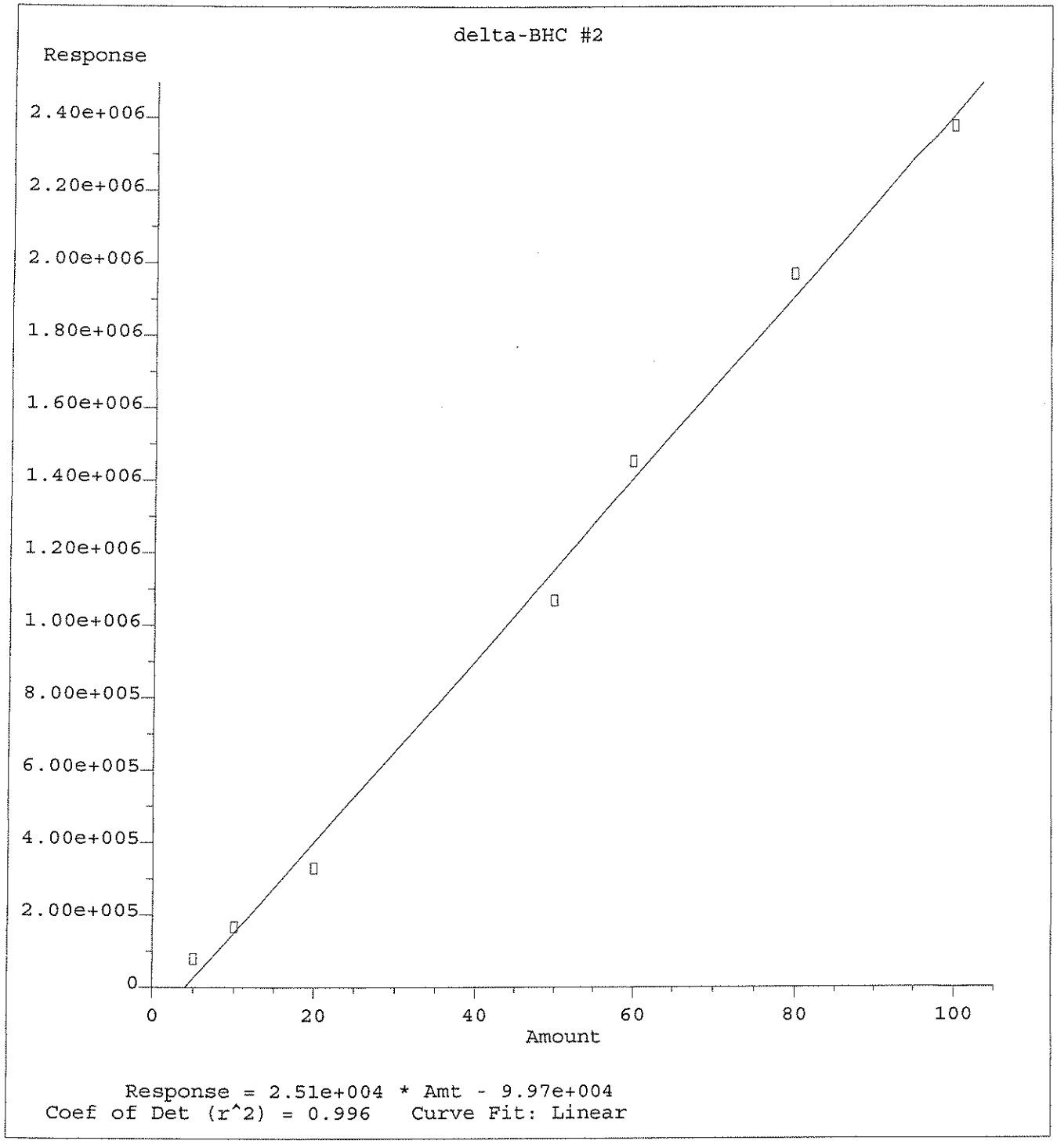

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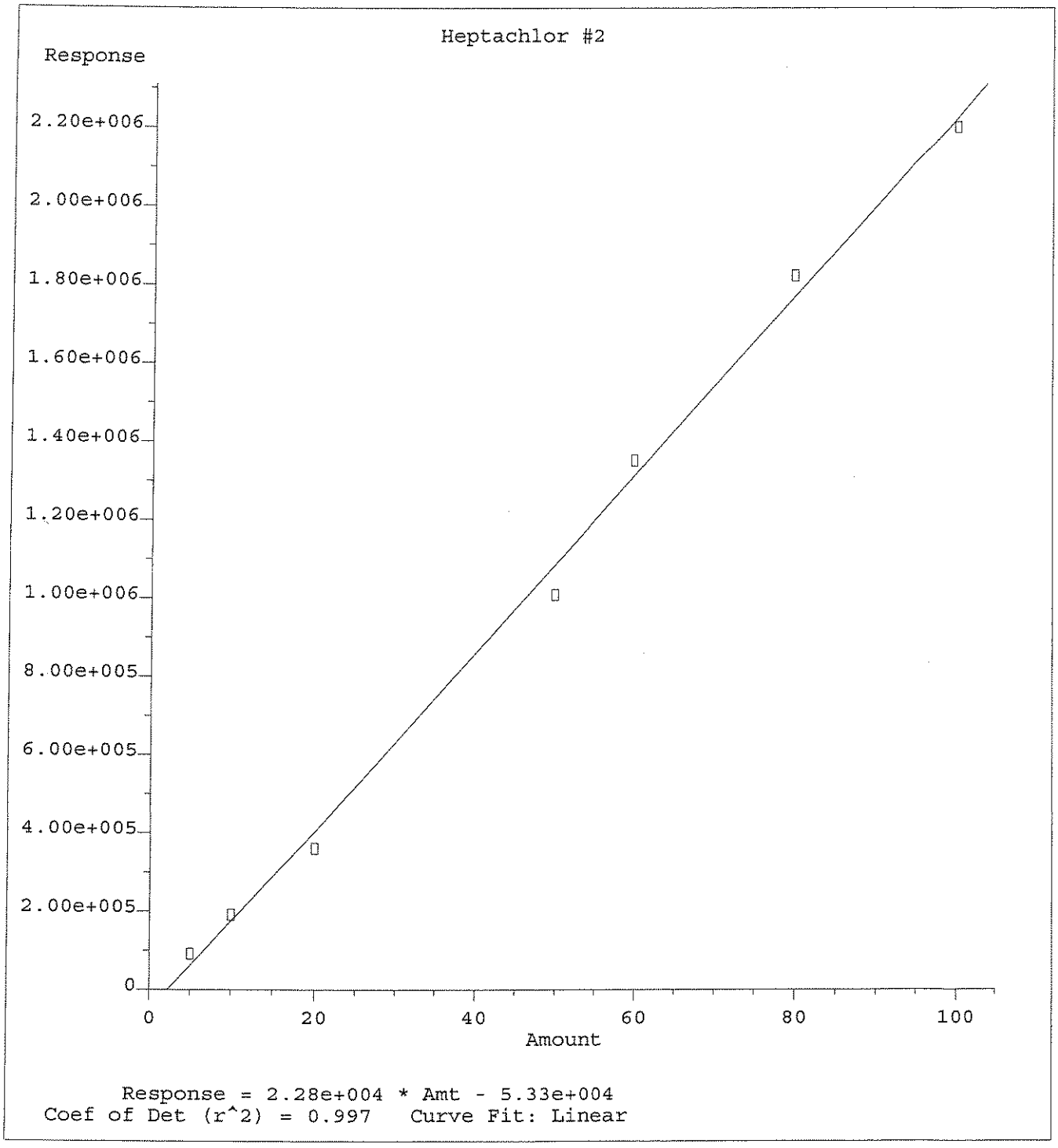

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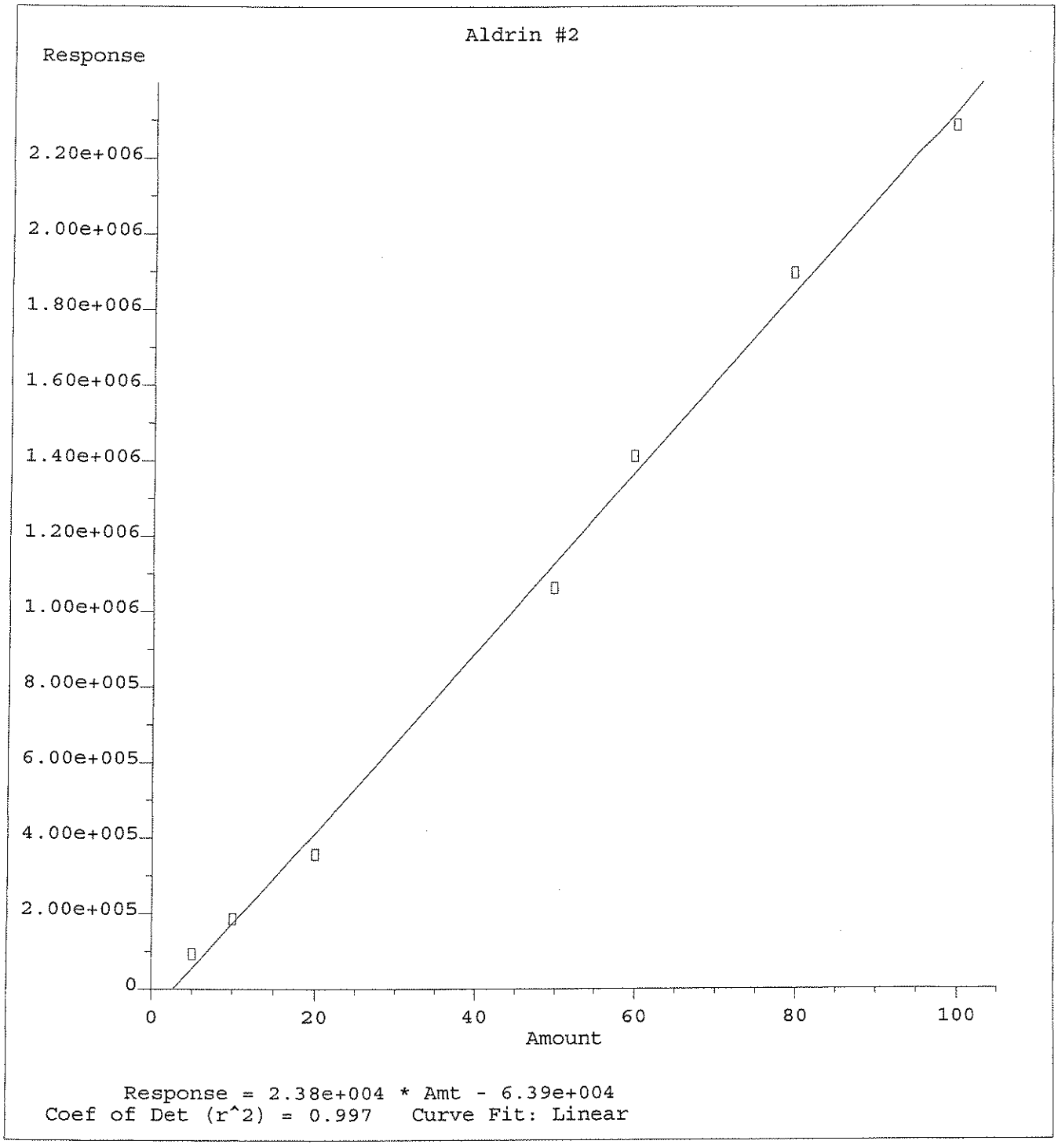

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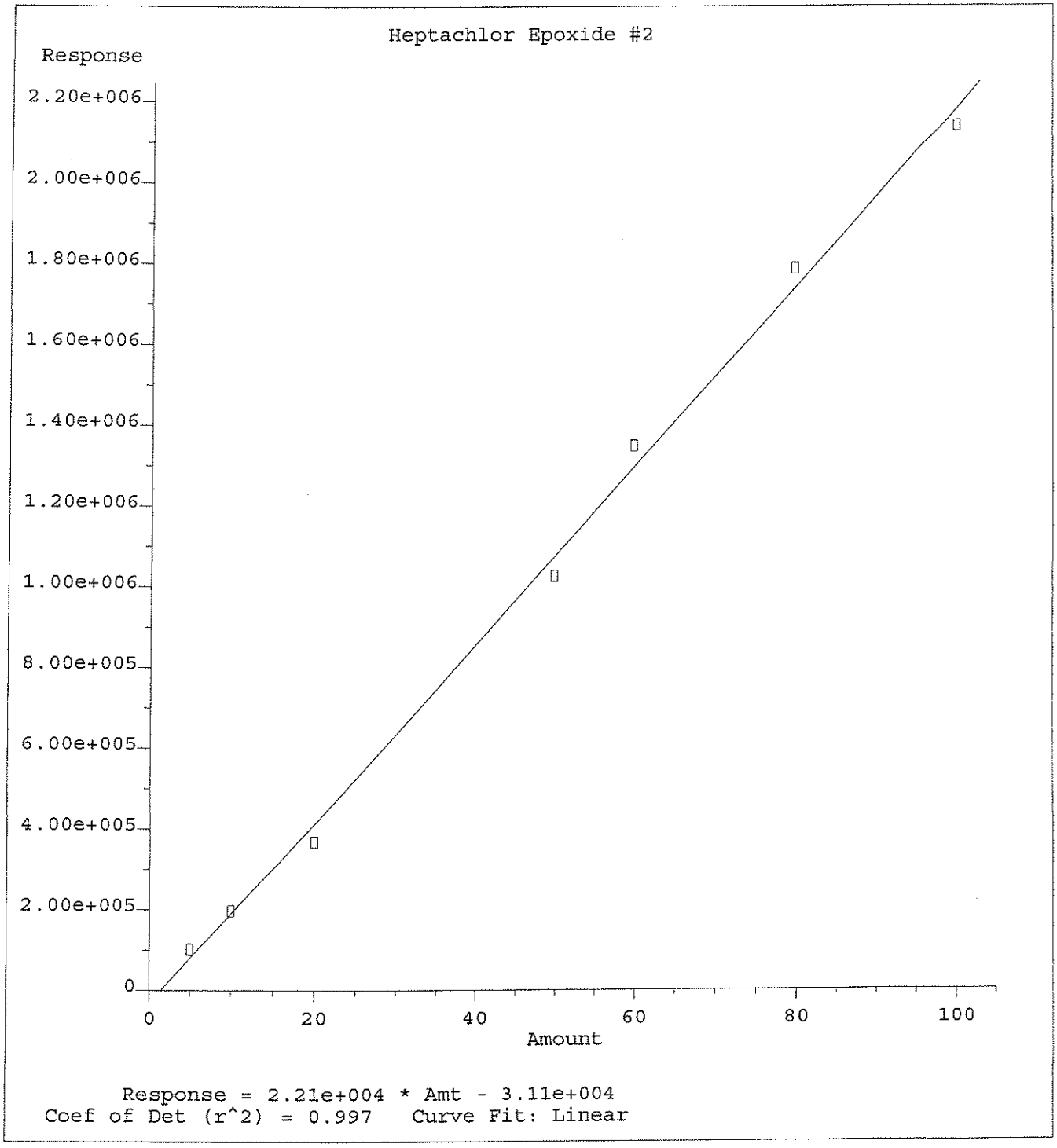

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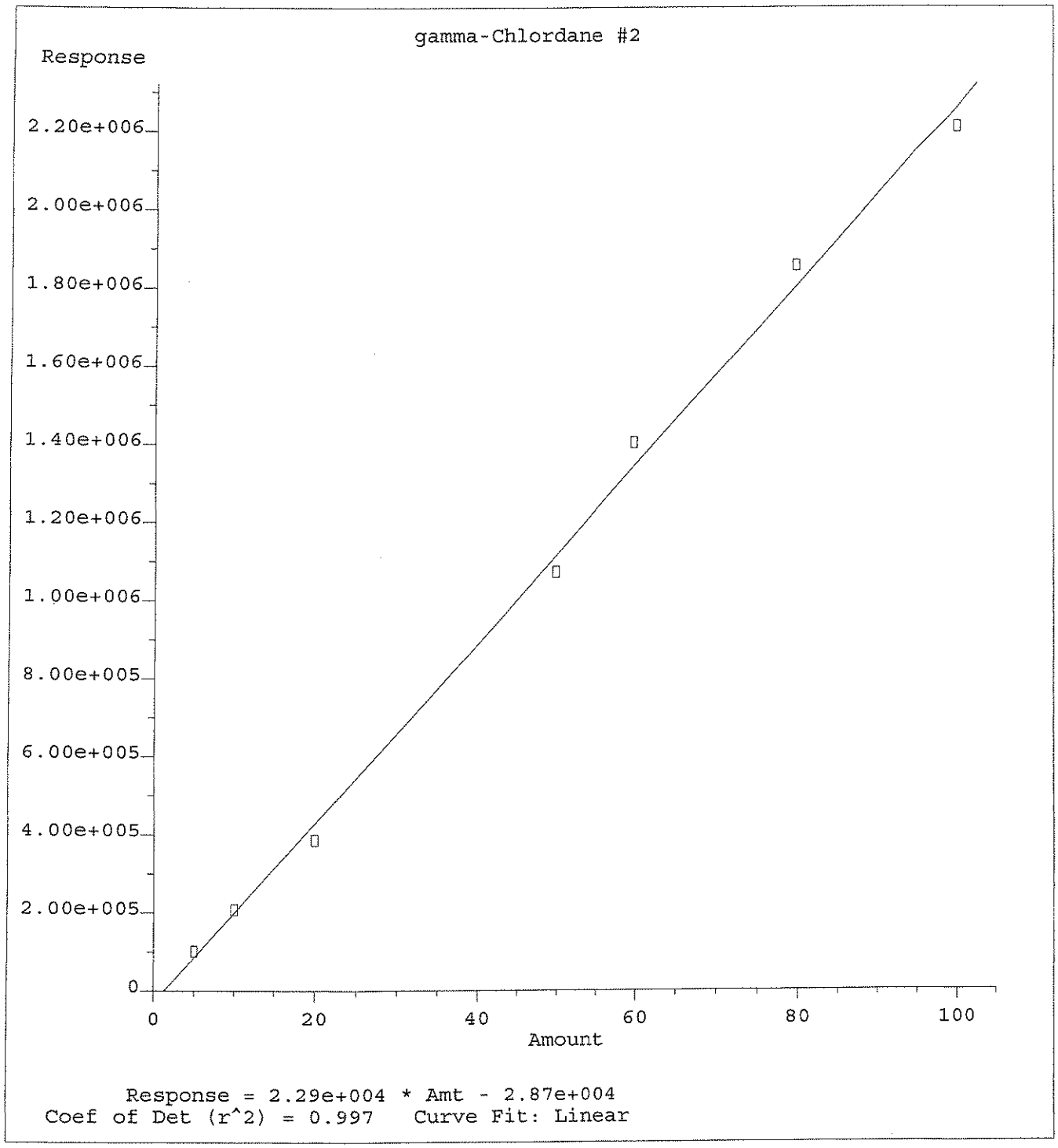

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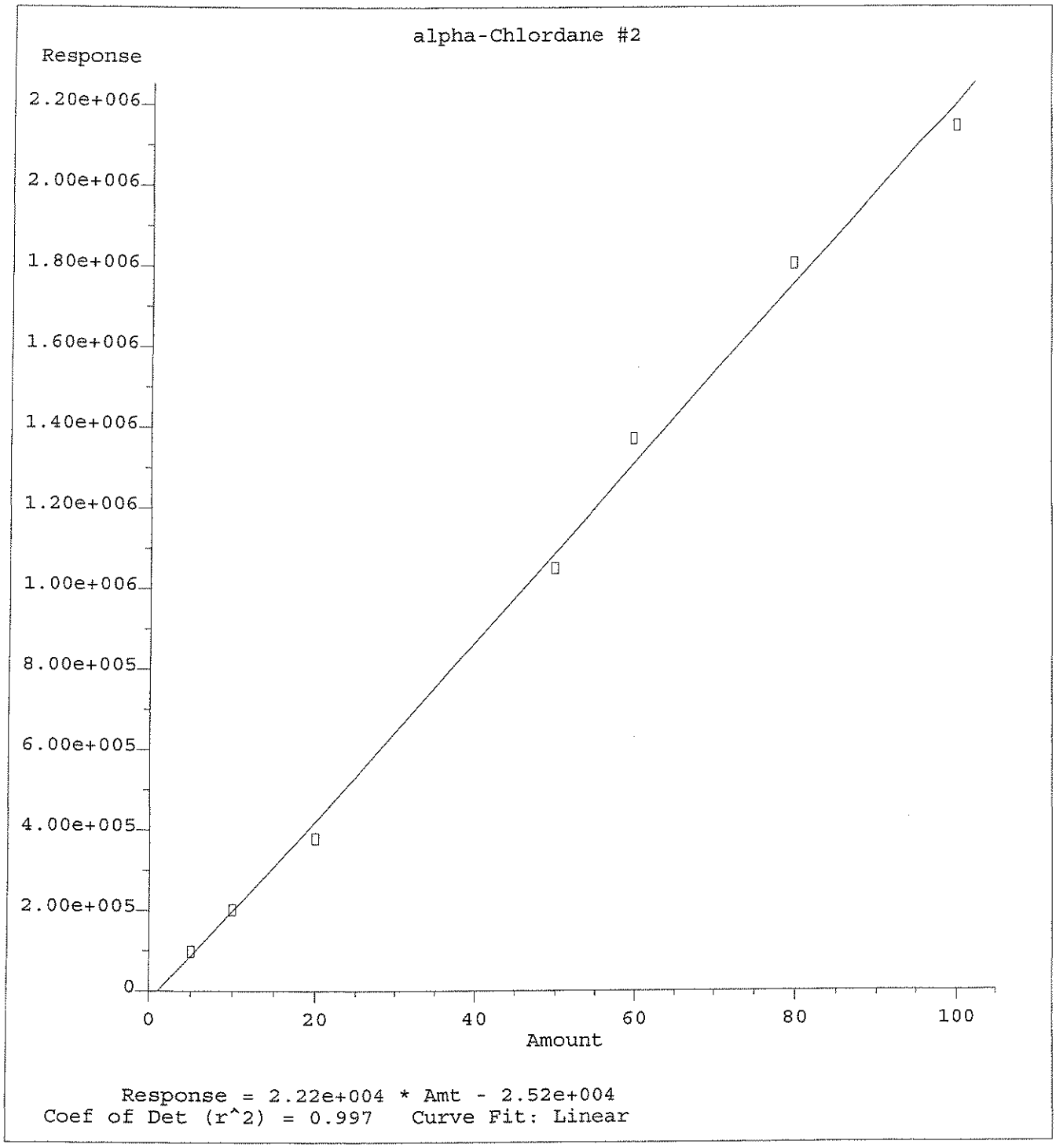

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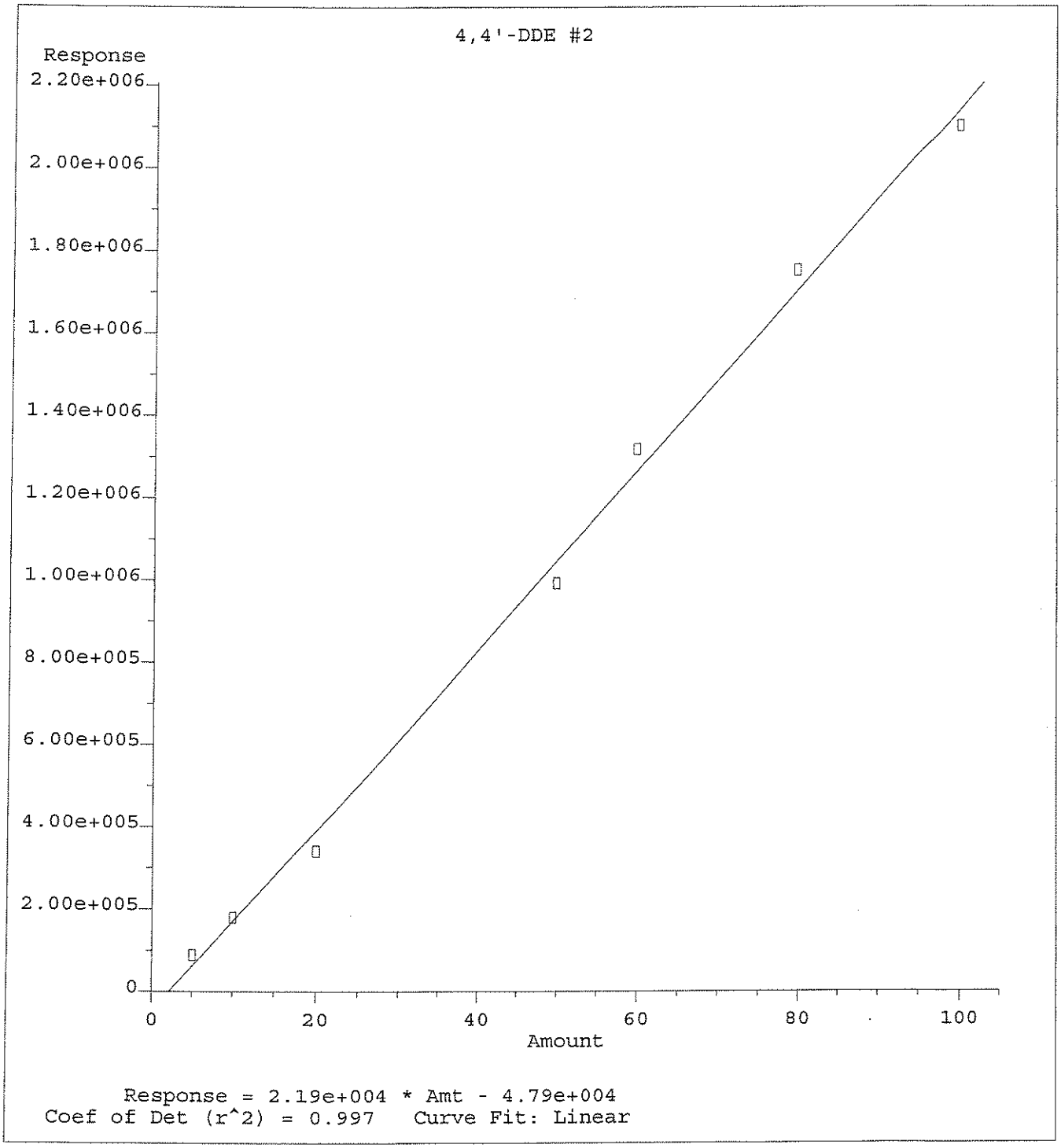

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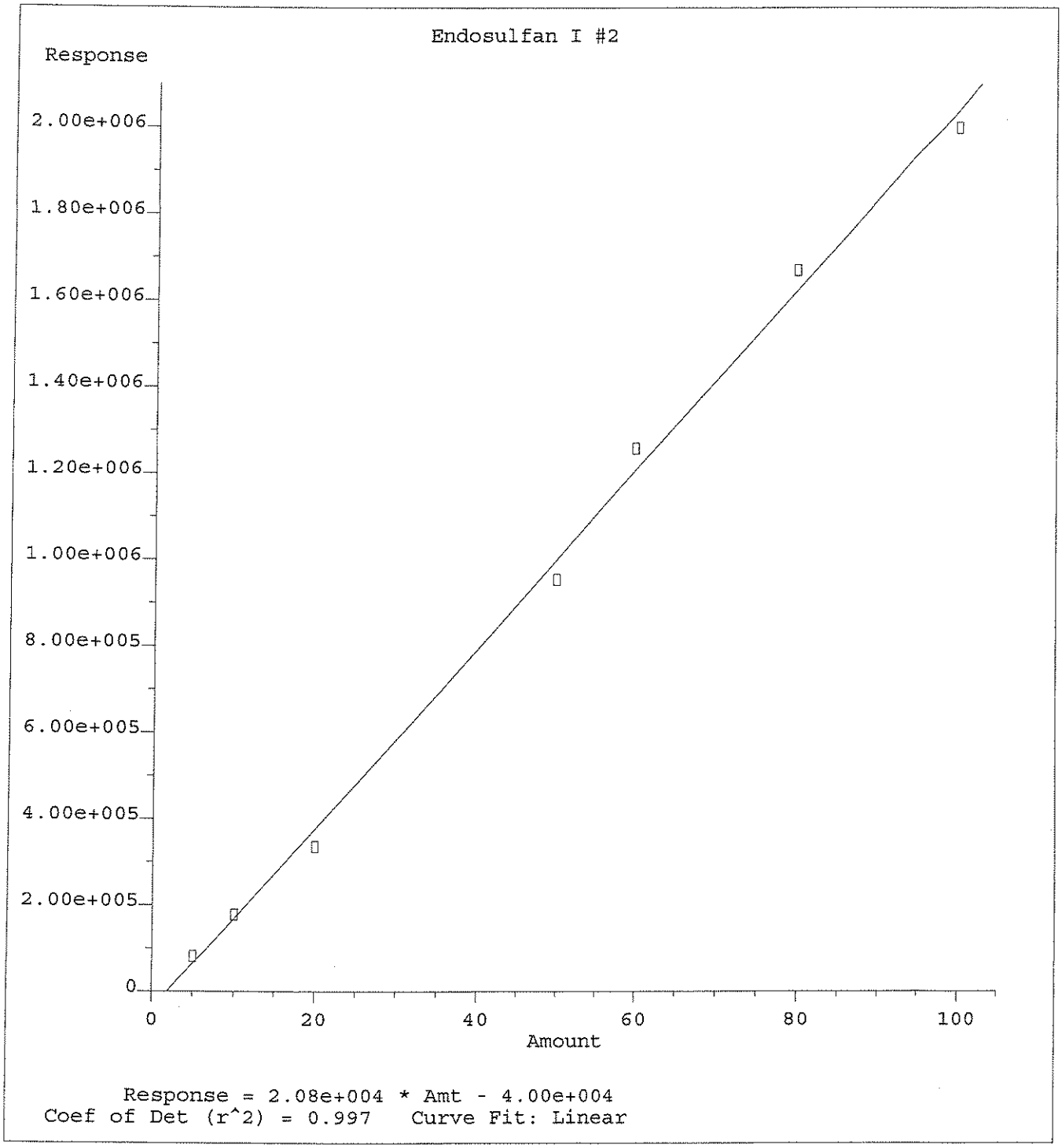

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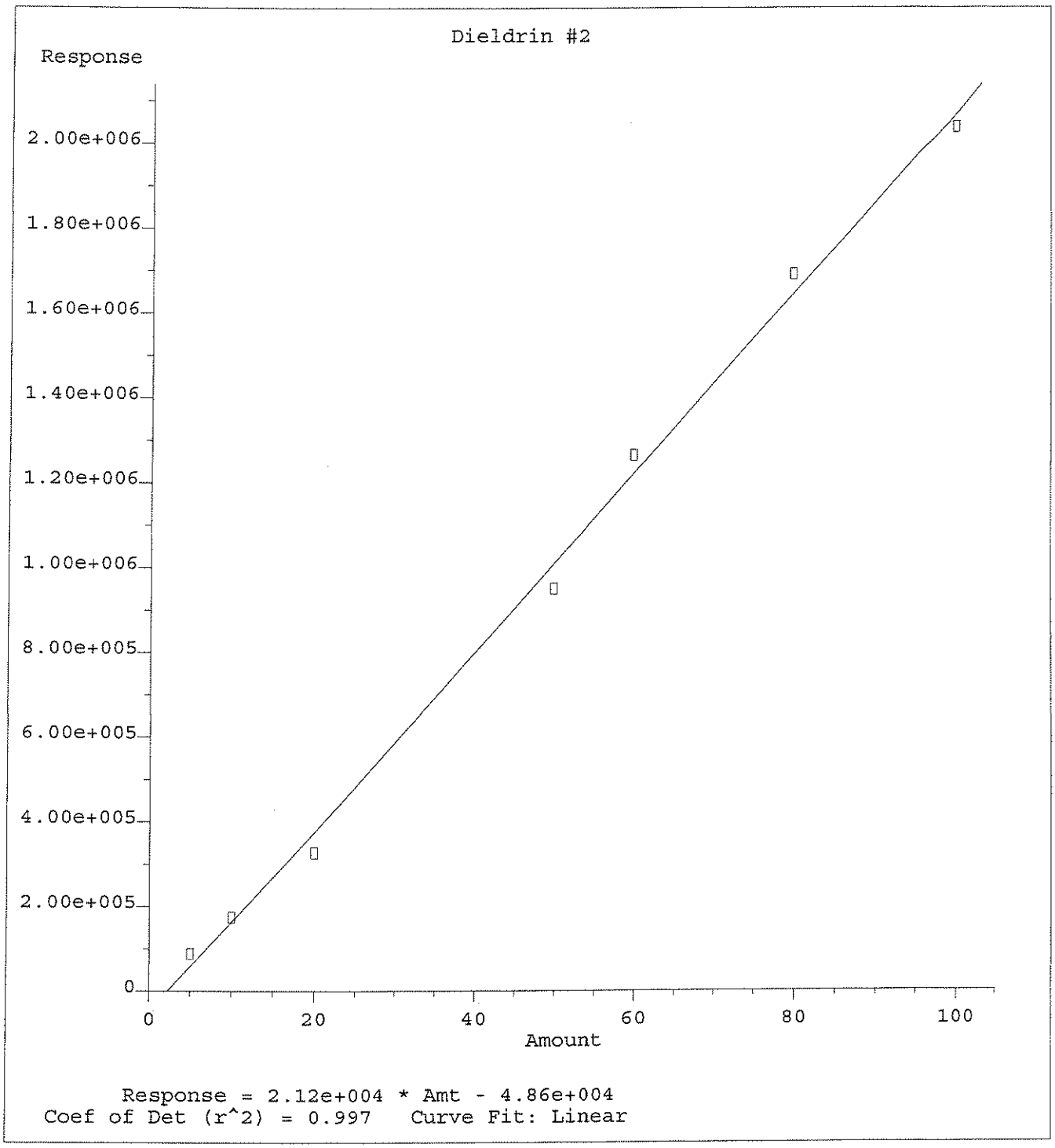

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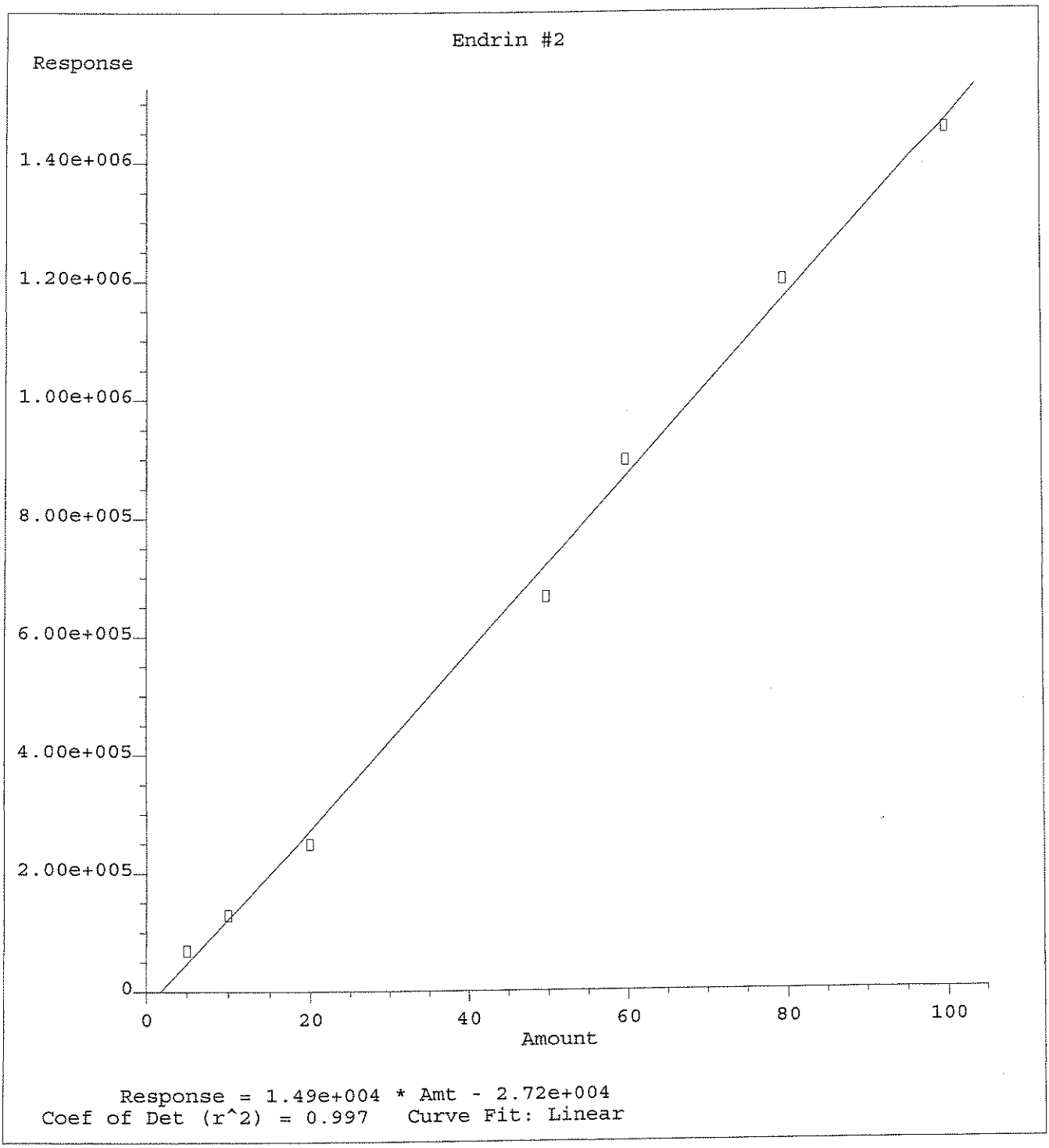

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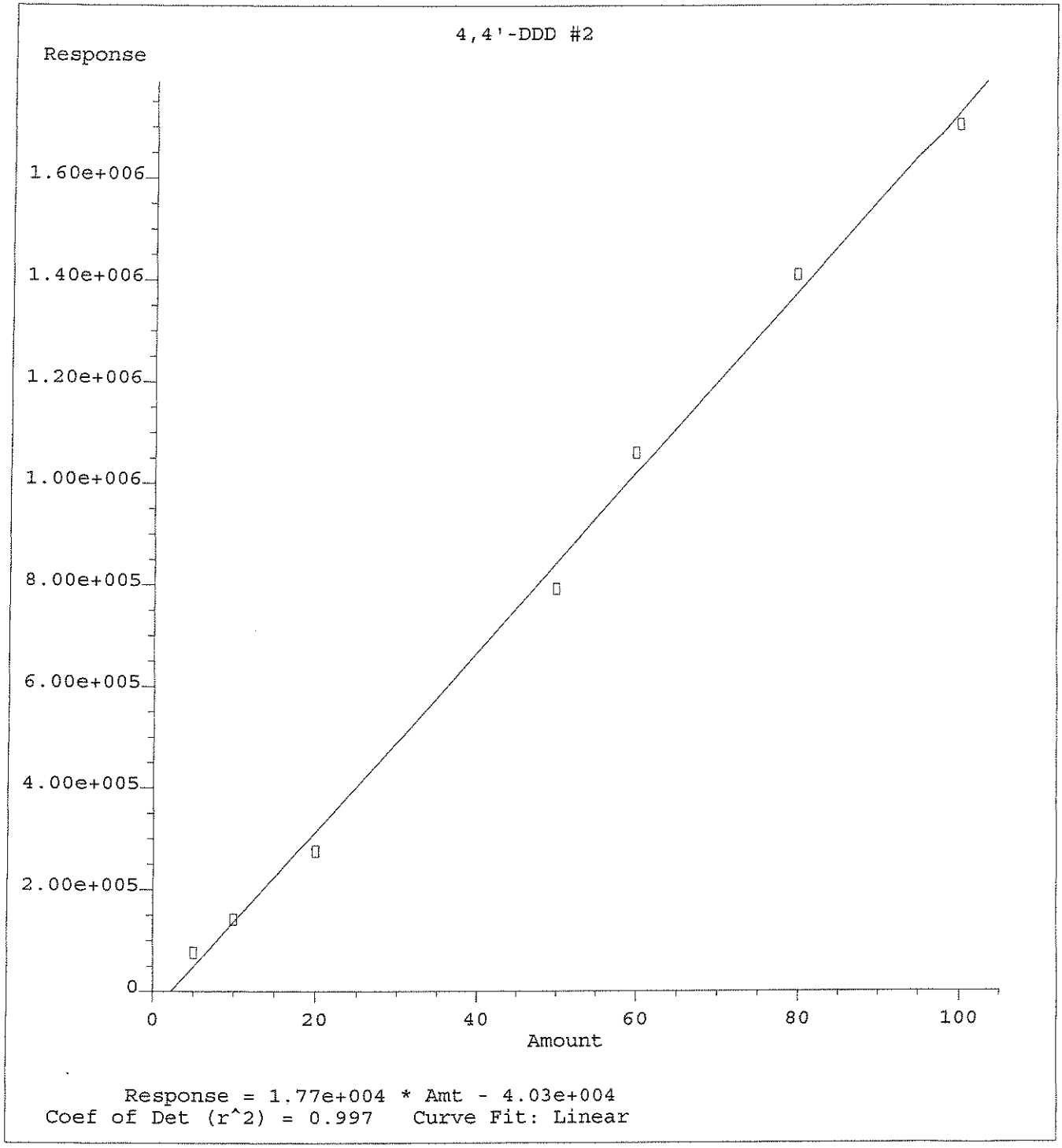

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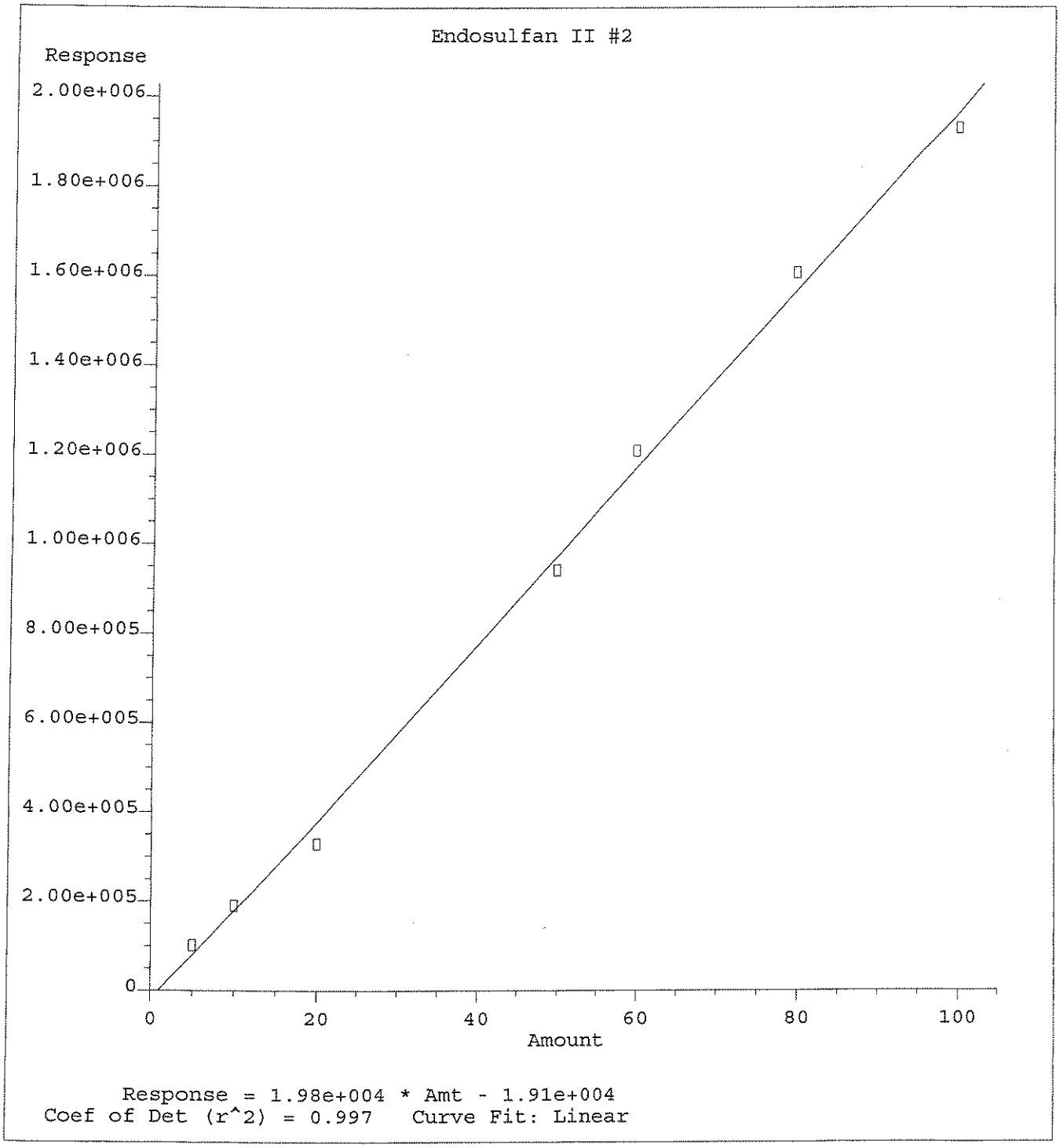

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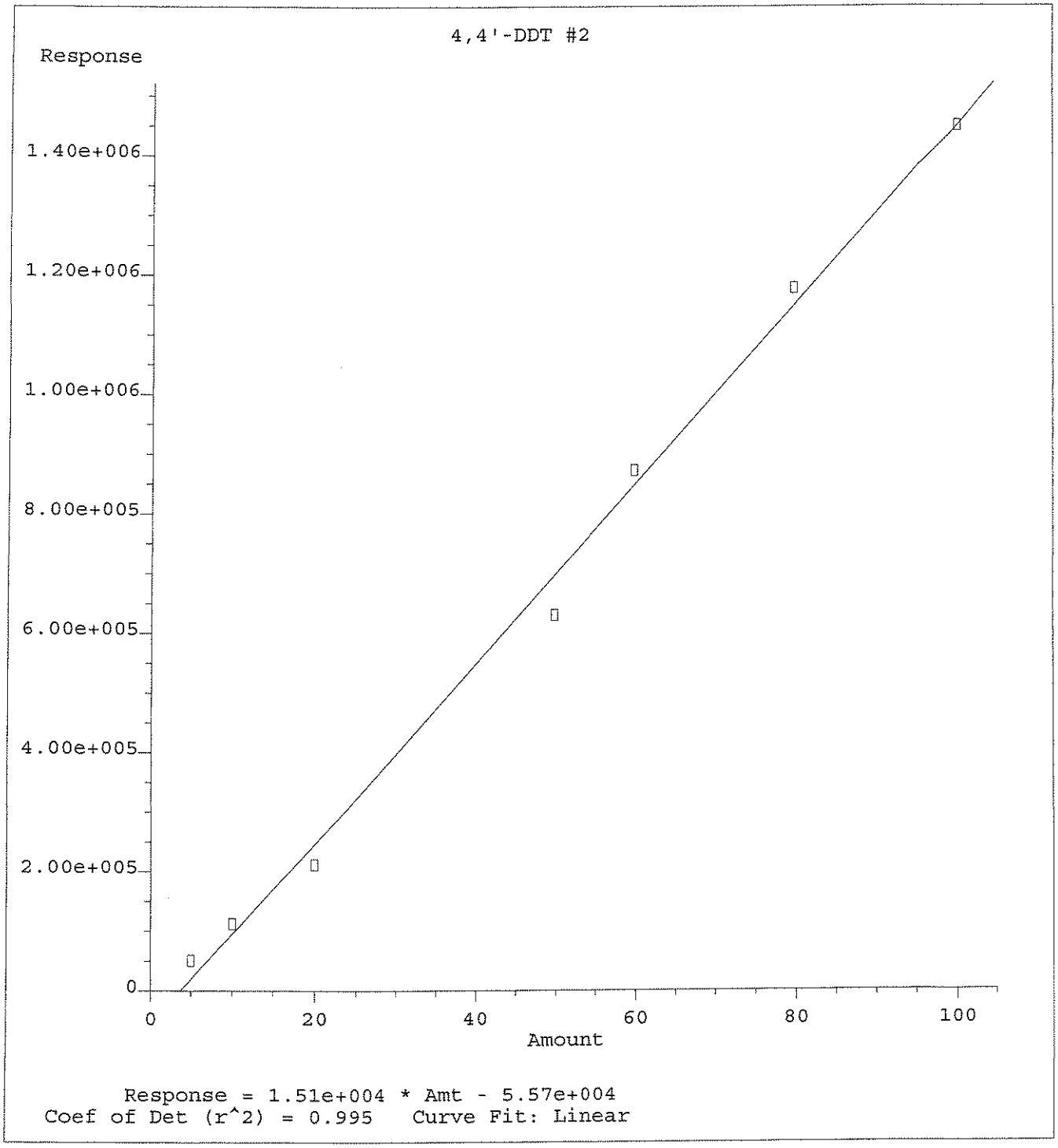

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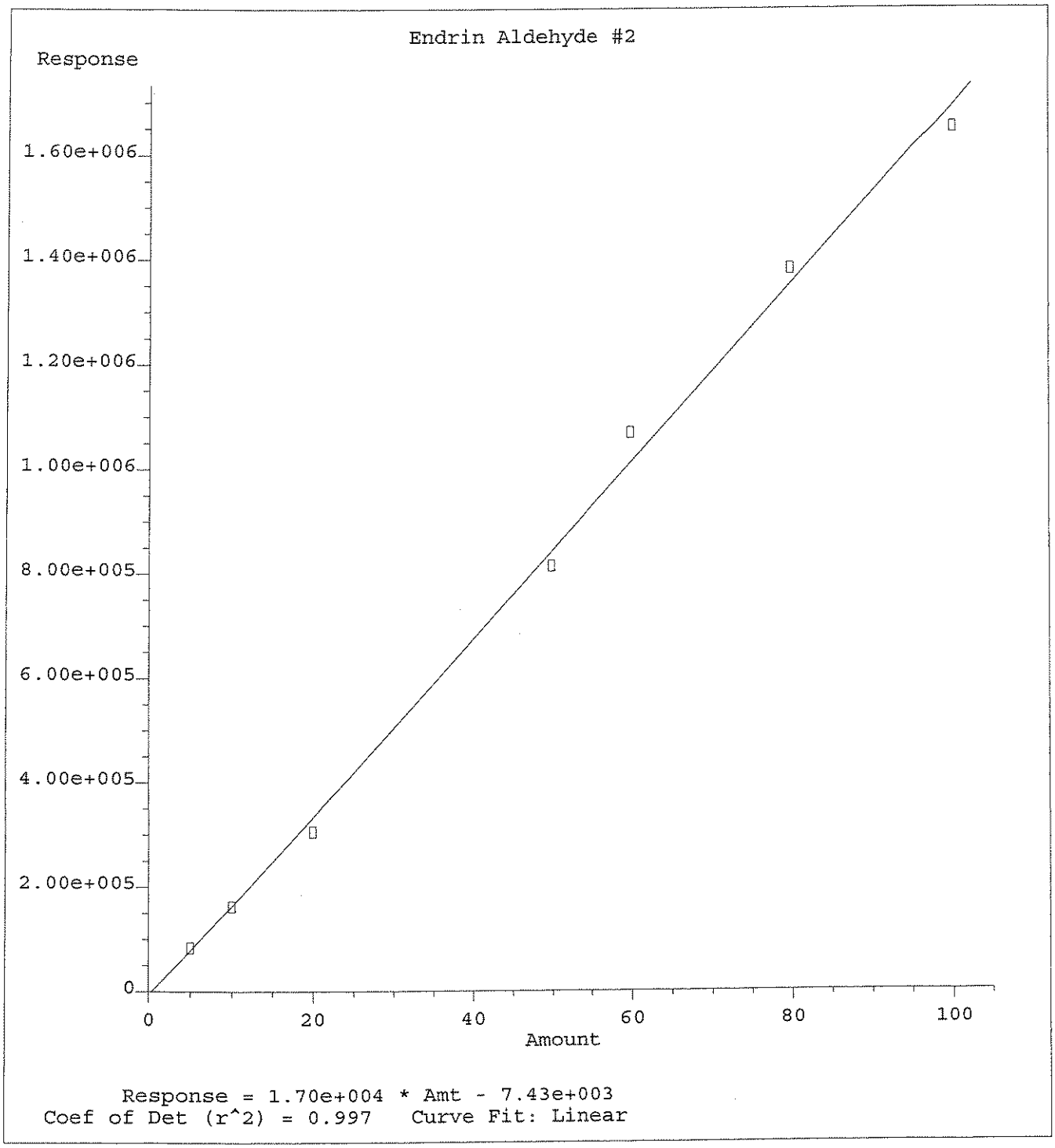

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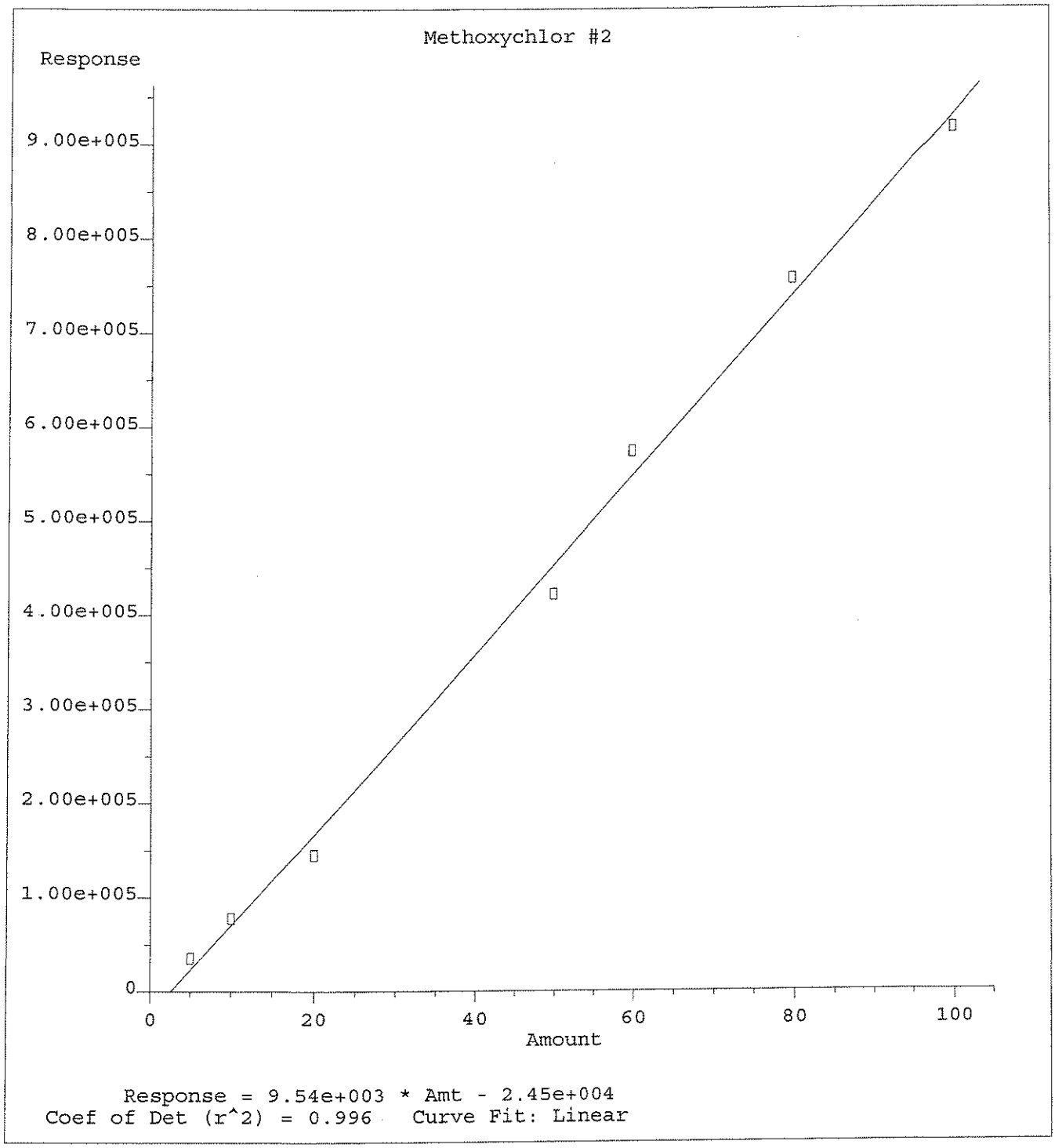

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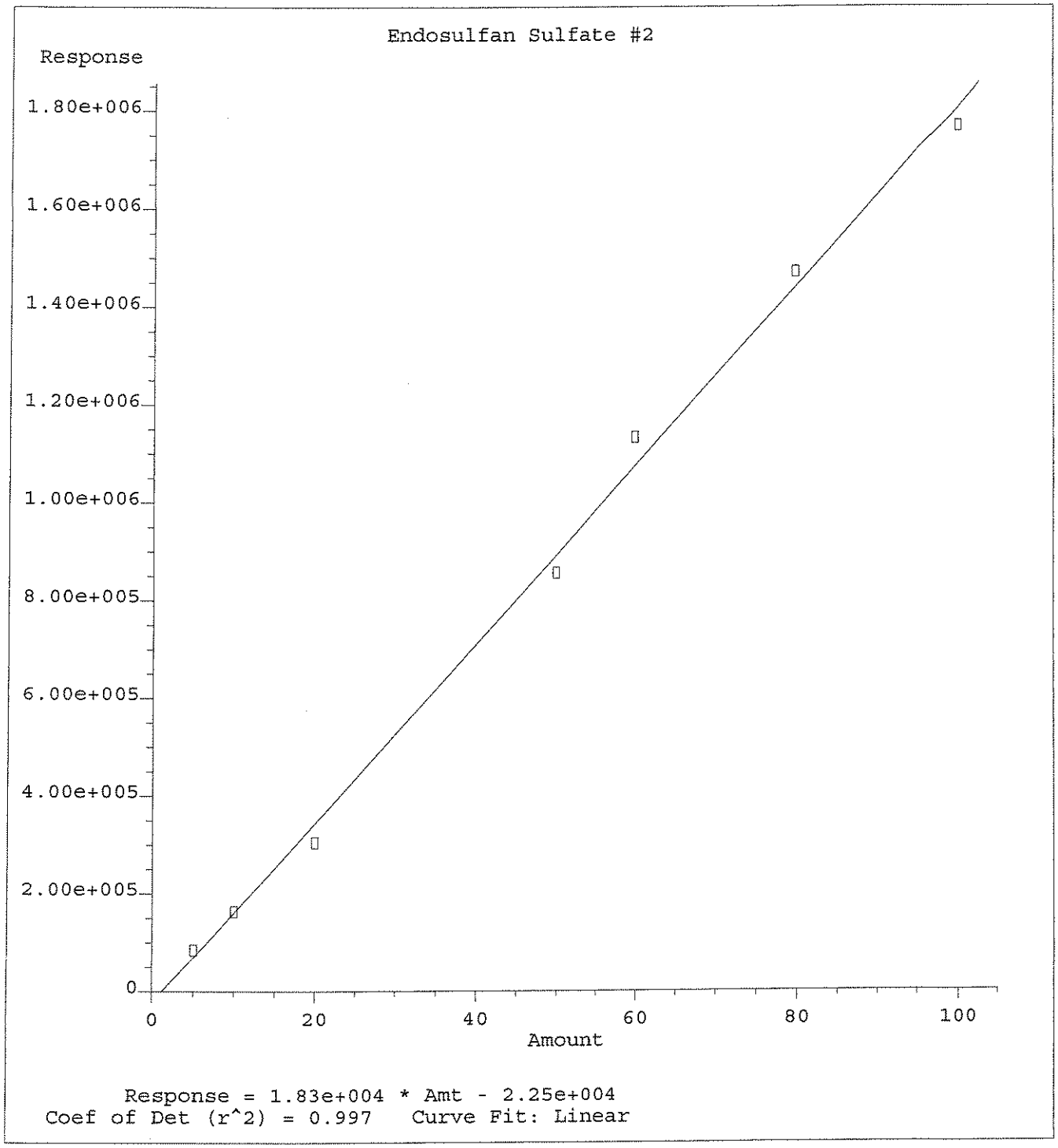
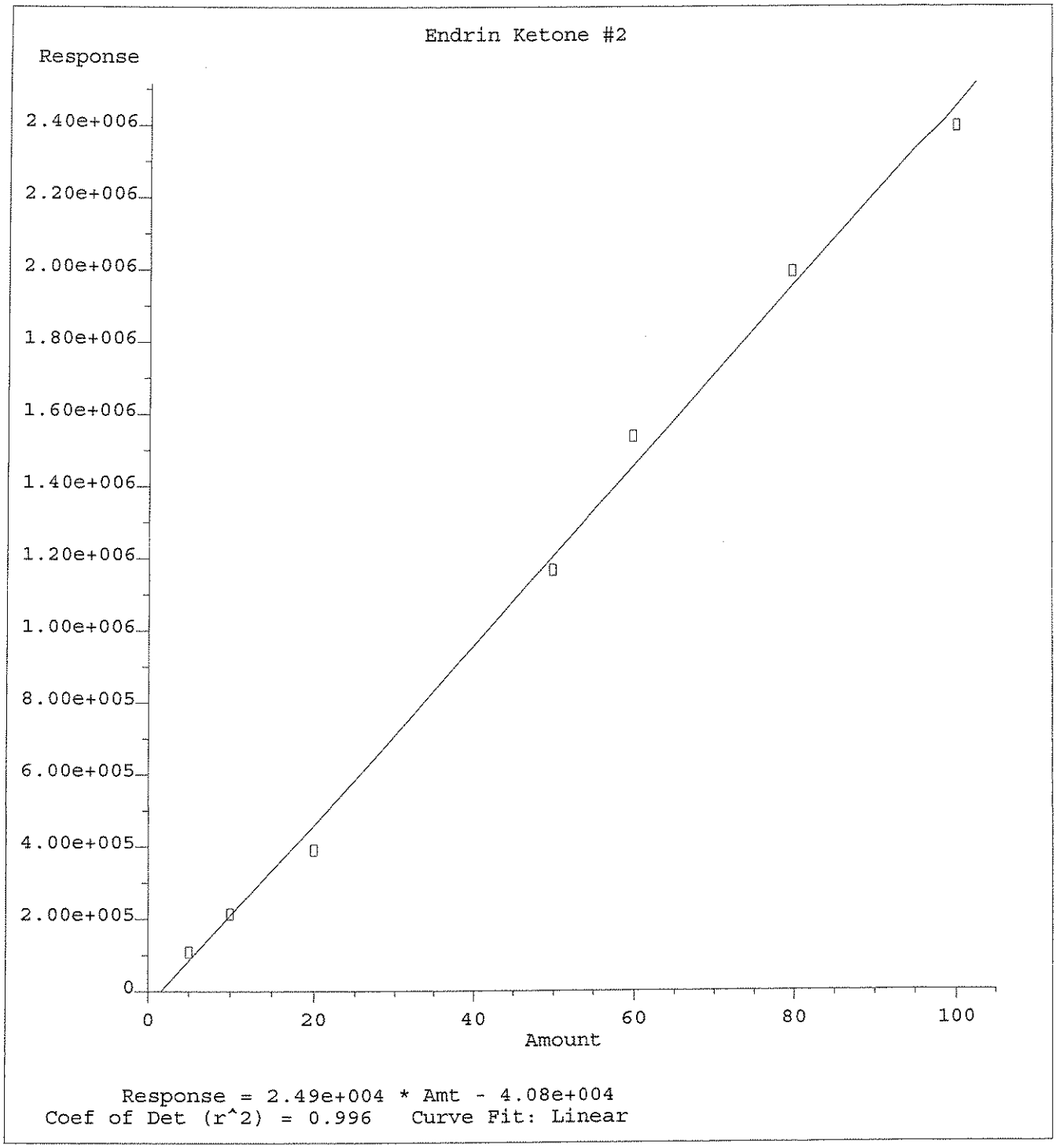
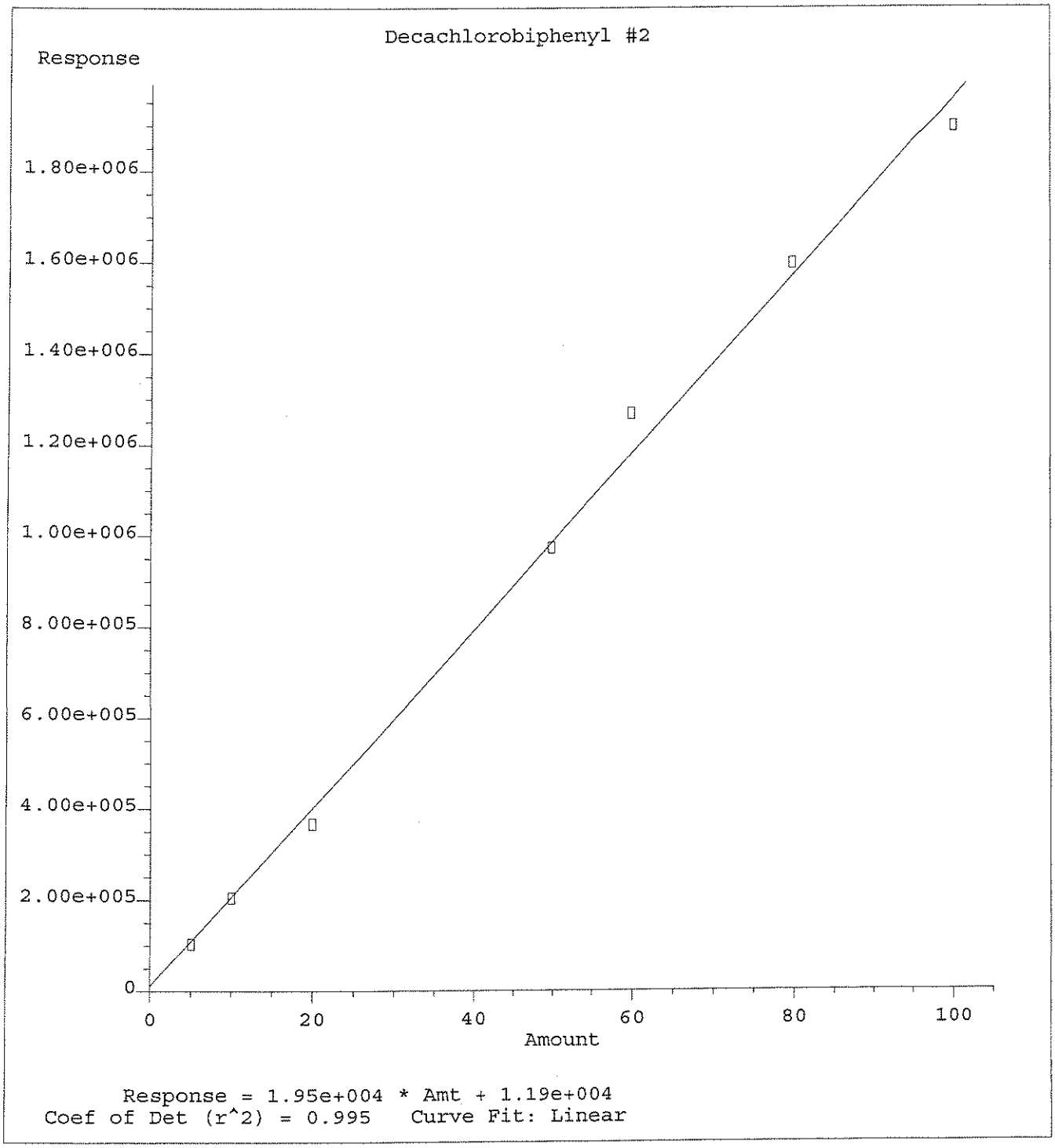


Method Name: Q:\SVOA\GC3_GE\METHODS\8081EC.M
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EC.M
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EC.M
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE060906\012F0101.D Vial: 12
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE060906\012F0101.D\012R0101.D
Acq On : 09 Jun 06 02:45 PM Operator: [GC]2R0101.D\DATA.MS
Sample : CHLOR Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 12 8:30 19106

Method : Q:\SVOA\GC3_GE\METHODS\CHECCC.M
Title :
Last Update : Mon Jun 12 08:30:32 2006
Response via : Multiple Level Calibration

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.74	8.86	1292480	429998	25.000	25.000
					Recovery	=	50.00%	50.00%
6)	S	Decachlorobiphenyl	18.25	20.95	917133	393289	24.783m	25.000
					Recovery	=	49.57%	50.00%
		Target Compounds						
2)	L	Chlordane (1)	10.72	11.76	458554	161751	250.000	250.000
3)	L	Chlordane (2)	10.88	12.05	743894	227358	250.000	250.000
4)	L	Chlordane (3)	12.84	14.08	1526815	609547	250.000	250.000
5)	L	Chlordane (4)	13.07	14.33	2377429	522475	250.000	250.000
		Total Chlordane (1)			5106692	1521131	1000.000	1000.000
		Average Chlordane (1)					250.000	250.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
012F0101.D CHECCC.M Mon Jun 12 08:31:01 2006 Page 1

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE060906\014F0101.D Vial: 14
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE060906\014F0101.D\014R0101.D
Acq On : 09 Jun 06 03:41 PM Operator: [GC]4R0101.D\DATA.MS
Sample : TOX Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 12 8:34 19106

Method : Q:\SVOA\GC3_GE\METHODS\TXECCC.M
Title :
Last Update : Mon Jun 12 08:33:29 2006
Response via : Single Level Calibration

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.74	8.86	1678458	556524	40.000	40.000
					Recovery	=	80.00%	80.00%
3)	S	Decachlorobiphenyl	18.25	20.95	1300664	529280	40.000	40.000
					Recovery	=	80.00%	80.00%
		Target Compounds						
2)	H	Toxaphene	15.52	15.52	98625611	39513662	2500.000	2500.000

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
9/06	16	6E060906-16	BF60827-BIK1 ✓	8081CC		SR
	17	17	BS1 ✓			
	18	18	BSD1 ✓			
	19	19	0606122-01 ✓		(R5)	
	20	20	BF60801-BIK1 ✓			
	21	21	BS1 ✓			
	22	22	BSD1 ✓			
	23	23	Hexane			
	24	24	Pem ✓		PEM2 8:21Pm	
	25	25	Pest 50 cc ✓		6F09064P CCV1 8:49Pm	
	25	25	Pest 50 cc			
	26	26	0606078-01 ✓		Chlor? (RR) End cal	
	27	27	02 ✓		Chlor?	
	28	28	03 ✓			
	29	29	04 ✓		(R20)	
	30	30	05 ✓		(R20)	
	31	31	05MS ✓		(R20)	
	32	32	05MSD ✓		(R20)	
	33	33	06 ✓			
	34	34	07 ✓			
	35	35	08 ✓		(R5)	
	36	36	09 ✓			
	37	37	10 ✓		(R5)	
	38	38	11 ✓			
	39	39	12 ✓			
9/06	40	6E060906-40	0606078-14 ✓	8081CC		SR

CONTROL NUMBER 60.0012-0601A

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ESS LABORATORY
GC 3 Front/Rear RUN LOG

UMN RTX CLPesticide

TCH ATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
9/06	41	GE0609066-41	0606078-15	✓ 8081EL	(RC) 2nd CCal	SR
↓	42	42	↓ 16	✓		↓
	43	43	17	✓	Chlor? (R)	
	23	23	Hexane			
	23	23	Hexane			
↓	25	↓ 25	Pest 50 CC			↓
9/06	25	GE060[illegible]25	Pest 50 CC	✓ 8081EL	6F09048 7:35AM DDT fails low. CCV 2	SR

TROL NUMBER 60.0012-0601A

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Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE060906\024F0101.D Vial: 24
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE060906\024F0101.D\024R0101.D
Acq On : 09 Jun 06 08:21 PM Operator: [GC]4R0101.D\DATA.MS
Sample : PEM Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 12 8:52 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EC.M
Title :
Last Update : Fri Jun 09 14:29:36 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.74	8.86	3032408	1004214	50.201	46.629
					Recovery	=	100.40%	93.26%
23)	S	Decachlorobiphenyl	18.25	20.95	1978361	864095	45.048	43.779
					Recovery	=	90.10%	87.56%
		Target Compounds						
2)	M	Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3)	M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	M	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
5)	M	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6)	M	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	M	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
8)	M	Aldrin	0.00	0.00	0	0	N.D.	N.D.
9)	M	Heptachlor Epoxide	0.00	0.00	0	0	N.D.	N.D.
10)	M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12)	M	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	M	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
14)	M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15)	M	Endrin	14.14	15.46	4599430	1541124	109.399	105.024m
16)	M	4,4'-DDD	0.00	15.57	0	49259	N.D.d	5.069m
17)	M	Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18)	M	4,4'-DDT	14.69	16.09	4305473	1608348	98.654	110.552
19)	M	Endrin Aldehyde	15.24	16.36	28519	17661	0.342m	1.477m#
20)	M	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	M	Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22)	M	Endrin Ketone	16.44	17.95	174977	54260	2.206	3.816m#

Σ $\frac{203496}{4802926} = 4.24\%$ DDT $\frac{0}{4305473} = 0\%$

Σ $\frac{17921}{1613045} = 1.11\%$ DDT $\frac{49259}{1657607} = 2.97\%$

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
024F0101.D 8081EC.M Mon Jun 12 08:52:32 2006 Page 1

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE060906\025F0101.D Vial: 25
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE060906\025F0101.D\025R0101.D
Acq On : 09 Jun 06 08:49 PM Operator: [GC]5R01O1.D\DATA.MS
Sample : PEST 50CC CCV1 Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 12 8:53 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EC.M
Title :
Last Update : Fri Jun 09 14:29:36 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.74	8.86	3226217	1123858	53.412	52.031
					Recovery	=	106.82%	104.06%
23)	S	Decachlorobiphenyl	18.25	20.96	2432432	1072015	55.566	54.460
					Recovery	=	111.13%	108.92%
		Target Compounds						
2)	M	Hexachlorobenzene	8.74	10.02	5220782	1930857	55.391	53.054
3)	M	alpha-BHC	9.17	10.36	3456285	1262317	51.309	49.511
4)	M	gamma-BHC (Lindane)	9.90	11.14	3212779	1238669	51.250	50.585
5)	M	beta-BHC	10.11	11.31	1759462	669829	52.626	51.805
6)	M	delta-BHC	10.48	11.91	3114391	1161453	50.463	50.318
7)	M	Heptachlor	10.89	12.05	3273864	1139427	52.938	52.379
8)	M	Aldrin	11.47	12.69	2867790	1153001	51.695	51.093
9)	M	Heptachlor Epoxide	12.62	13.74	2770130	1117076	53.350	51.934
10)	M	gamma-Chlordane	12.84	14.08	2797669	1166217	52.694	52.213
11)	M	alpha-Chlordane	13.08	14.33	2685513	1142089	52.456	52.486
12)	M	4,4'-DDE	13.20	14.57	2580925	1070933	51.267	51.142
13)	M	Endosulfan I	13.32	14.46	2683501	1037201	52.793	51.822
14)	M	Dieldrin	13.74	14.94	2500865	1029516	51.765	50.970
15)	M	Endrin	14.14	15.47	2124046	728090	51.151	50.578
16)	M	4,4'-DDD	14.23	15.56	2183442	852501	50.777	50.536
17)	M	Endosulfan II	14.53	15.82	2370566	969045	52.470	49.815
18)	M	4,4'-DDT	14.69	16.10	2068811	719062	48.007	51.470
19)	M	Endrin Aldehyde	15.24	16.39	2084374	889197	52.844	52.791
20)	M	Methoxychlor	15.48	17.28	1329451	483210	50.823	53.240
21)	M	Endosulfan Sulfate	15.97	16.90	2281699	919807	53.312	51.565
22)	M	Endrin Ketone	16.46	17.99	3006680	1252339	52.896	51.918

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
025F0101.D 8081EC.M Mon Jun 12 08:53:56 2006 Page 1

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE060906\025F0402.D Vial: 25
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE060906\025F0402.D\025R0402.D
Acq On : 10 Jun 06 07:35 AM Operator: [GC]5R0402.D\DATA.MS
Sample : PEST 50CC CCV2 Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 12 8:59 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EC.M
Title :
Last Update : Fri Jun 09 14:29:36 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.74	8.86	3478859	1203303	57.597	55.619
					Recovery	=	115.19%	111.24%
23)	S	Decachlorobiphenyl	18.25	20.96	2532584	1097312	57.885	55.759
					Recovery	=	115.77%	111.52%
		Target Compounds						
2)	M	Hexachlorobenzene	8.74	10.02	5574907	2039217	59.290	56.031
3)	M	alpha-BHC	9.17	10.36	3783258	1358048	55.922	52.898
4)	M	gamma-BHC (Lindane)	9.89	11.14	3487338	1303736	55.465	53.064
5)	M	beta-BHC	10.11	11.31	1879163	695237	56.159	53.728
6)	M	delta-BHC	10.48	11.91	3406035	1245971	54.917	53.690
7)	M	Heptachlor	10.89	12.05	3450063	1200151	55.737	55.045
8)	M	Aldrin	11.47	12.69	3068884	1200469	55.217	53.086
9)	M	Heptachlor Epoxide	12.62	13.74	2969441	1156470	57.143	53.716
10)	M	gamma-Chlordane	12.84	14.08	2998241	1197890	56.436	53.597
11)	M	alpha-Chlordane	13.08	14.33	2874075	1175584	56.159	53.992
12)	M	4,4'-DDE	13.20	14.57	2822808	1123655	56.006	53.552
13)	M	Endosulfan I	13.32	14.46	2873250	1078499	56.461	53.809
14)	M	Dieldrin	13.74	14.94	2733321	1076975	56.442m	53.214
15)	M	Endrin	14.14	15.47	2303111	794214	55.364	55.006
16)	M	4,4'-DDD	14.23	15.56	2591718	972233	59.873	57.313
17)	M	Endosulfan II	14.53	15.82	2524184	1019936	55.824	52.380
18)	M	4,4'-DDT	14.69	16.09	1778152	578995	41.425	42.165
19)	M	Endrin Aldehyde	15.23	16.39	2150709	890405	54.539	52.862
20)	M	Methoxychlor	15.48	17.28	1168868	415300	44.798	46.119
21)	M	Endosulfan Sulfate	15.96	16.90	2549563	965513	59.570m	54.067
22)	M	Endrin Ketone	16.45	17.99	3279132	1328927	57.773m	54.993

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
025F0402.D 8081EC.M Mon Jun 12 08:59:35 2006 Page 1

ANALYSIS SEQUENCE

BPG0201

Instrument: SVOAGC3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0201-PEM1	QC		1		6E02036		
BPG0201-CCV1	QC		2		6F12082		
BF60801-BLK2	QC		3				
BF60801-BS2	QC		4				
BF60801-BSD2	QC		5				
0606078-11	SVOC: 8081A ppb Pesticides	F	6				MACTEC Engineering & Consulting, In
0606078-14	SVOC: 8081A ppb Pesticides	F	7				MACTEC Engineering & Consulting, In
0606078-15	SVOC: 8081A ppb Pesticides	F	8				MACTEC Engineering & Consulting, In
BPG0201-CCV2	QC		9		6F12082		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/9/06	41	GE060906-41	0606078-15	8081EC	(R1) End Cal	SW
	42	42	16			
	43	43	17		Chlor? (R2)	
	23	23	Hexane			
	23	23	Hexane			
	25	25	Pest 50 cc			
6/9/06	28	GE060906-28	Pest 50 cc	8081EC	CF09048 7:35AM DDT Fail low.	SW
6/12/06	1	CF061206-1	Prime	8081EC		SW
	2	2	Rem			
	3	3	Pest 50 cc		DDT Low	
	4	4	Chlor 250			
6/12/06	3	3	Pest 50 cc	8081EC	DDT low	SW
6/12/06	1	GE061206A-1	Prime	8081EC		SW
	2	2	Pem			
	3	3	Pest 50 cc		CF120S2	
	3	3	Pest 50 cc		CF120S2	
	4	4	BF60801-BLK1			
	5	5	BS1			
	6	6	BSD1			
	7	7	BF60923-BLK			
	8	8	BS1			
	9	9	BSD1			
	10	10	0606071-01			
	11	11	01 MS			
	12	12	01 MSD			
6/12/06	13	GE061206A-13	03 L	8081EC		SW

CONTROL NUMBER 60.0012-0601A

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ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/12/06	14	6E0612BA-14	0606078-07	8081EC		SB
	15	15	09			
	16	16	11			
	17	17	14			
	18	18	15			
	19	19	1660		6F09049	
	20	20	1254		050	
	21	21	1248		057	
	22	22	1242		6F09052	
	23	23	Hexane			
	24	24	PEM			
	25	25	Pest 50 cc		6F120P2 DPT low Front	
	25	25	Pest 50 cc		6F12052	
	26	26	Chlor 250 PPB		6F12053	
	27	27	0606078-17			
	28	28	17		5x	
	29	29	01			
	30	30	02			
	31	31	03			
	32	32	06			
	33	33	08			
	34	34	08		5x	
	35	35	10		5x	
	36	36	12			
	37	37	16			
6/12/06	38	6E0612BA38	0606078-04	8081EC	20x	SB

RR

CONTROL NUMBER 60.0012-0601A

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Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06126A\002F0101.D Vial: 2
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06126A\002F0101.D\002R0101.D
Acq On : 12 Jun 06 01:36 PM Operator: [GC]2R01O1.D\DATA.MS
Sample : PEM Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 12 14:59 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EC.M
Title :
Last Update : Fri Jun 09 14:29:36 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.71	8.83	2841674	1013673	47.042	47.056
					Recovery	=	94.08%	94.11%
23)	S	Decachlorobiphenyl	18.22	20.90	1911932	833176	43.510m	42.190
					Recovery	=	87.02%	84.38%
		Target Compounds						
2)	M	Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3)	M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	M	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
5)	M	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6)	M	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	M	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
8)	M	Aldrin	0.00	0.00	0	0	N.D.	N.D.
9)	M	Heptachlor Epoxide	0.00	0.00	0	0	N.D.	N.D.
10)	M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12)	M	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	M	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
14)	M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15)	M	Endrin	14.12	15.44	4924488	1717707	117.048	116.849
16)	M	4,4'-DDD	0.00	15.54	0	137895	N.D.d	10.087m
17)	M	Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18)	M	4,4'-DDT	14.67	16.07	4132973	1516317	94.748	104.438
19)	M	Endrin Aldehyde	15.23	16.36	25759	8490	0.272m	0.937m#
20)	M	Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
21)	M	Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22)	M	Endrin Ketone	16.42	17.92	184819	57884	2.383	3.961m#

$\Sigma \frac{210578}{5135066} = 4.1\%$ DDT $\frac{0}{4132973} = 0\%$

$\Sigma \frac{66374}{1784081} \cong 3.72\%$ DDT $\frac{137895}{1654212} = 8.33\%$

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
002F0101.D 8081EC.M Mon Jun 12 14:59:46 2006 Page 1

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06126A\003F0201.D Vial: 3
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06126A\003F0201.D\003R0201.D
Acq On : 12 Jun 06 02:32 PM Operator: [GC]3R0201.D\DATA.MS
Sample : PEST 50PPB Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 13 8:29 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EC.M
Title :
Last Update : Fri Jun 09 14:29:36 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.71	8.83	3113882	1110655	51.551	51.435
					Recovery	=	103.10%	102.87%
23)	S	Decachlorobiphenyl	18.22	20.91	2349279	1030035	53.640	52.303
					Recovery	=	107.28%	104.61%
		Target Compounds						
2)	M	Hexachlorobenzene	8.71	10.00	4981856	1888798	52.760	51.898
3)	M	alpha-BHC	9.15	10.33	3372217	1260659	50.124	49.452
4)	M	gamma-BHC (Lindane)	9.87	11.11	3157863	1233434	50.407	50.386
5)	M	beta-BHC	10.09	11.29	1721445	664594	51.504	51.409
6)	M	delta-BHC	10.45	11.88	3058494	1170454	49.610	50.677
7)	M	Heptachlor	10.86	12.03	3228463	1152487	52.217	52.952
8)	M	Aldrin	11.45	12.67	2822878	1137560	50.909	50.445
9)	M	Heptachlor Epoxide	12.60	13.72	2709110	1095553	52.189	50.961
10)	M	gamma-Chlordane	12.82	14.05	2749072	1145371	51.788	51.302
11)	M	alpha-Chlordane	13.05	14.31	2654768	1121795	51.852	51.574
12)	M	4,4'-DDE	13.18	14.54	2570201	1067130	51.056	50.968
13)	M	Endosulfan I	13.30	14.43	2639687	1014633	51.946	50.736
14)	M	Dieldrin	13.72	14.91	2452150	1008637	50.785	49.983
15)	M	Endrin	14.12	15.44	2126422	740136	51.206	51.385
16)	M	4,4'-DDD	14.20	15.53	2216581	872581	51.515	51.672
17)	M	Endosulfan II	14.51	15.79	2326104	951361	51.499	48.923
18)	M	4,4'-DDT	14.67	16.07	1868168	614764	43.464	44.541
19)	M	Endrin Aldehyde	15.21	16.36	2021856	861673	51.248	51.171
20)	M	Methoxychlor	15.46	17.25	1169911	401856	44.837	44.709
21)	M	Endosulfan Sulfate	15.94	16.87	2350208	899323	54.913	50.444
22)	M	Endrin Ketone	16.43	17.95	3154545	1228765	55.543	50.972

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
003F0201.D 8081EC.M Tue Jun 13 08:30:03 2006 Page 1

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06126A\025F0201.D Vial: 25
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06126A\025F0201.D\025R0201.D
Acq On : 13 Jun 06 00:49 AM Operator: [GC]5R0201.D\DATA.MS
Sample : PEST 50CC Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 13 7:36 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EC.M
Title :
Last Update : Fri Jun 09 14:29:36 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.71	8.83	3261477	1128771	53.996	52.253
					Recovery	=	107.99%	104.51%
23)	S	Decachlorobiphenyl	18.22	20.91	2490308	1095645	56.906	55.673
					Recovery	=	113.81%	111.35%
		Target Compounds						
2)	M	Hexachlorobenzene	8.71	10.00	5276658	1936723	56.006	53.215
3)	M	alpha-BHC	9.15	10.34	3562644	1294195	52.810	50.639
4)	M	gamma-BHC (Lindane)	9.87	11.11	3313891	1264399	52.802	51.565
5)	M	beta-BHC	10.09	11.29	1823263	681516	54.509	52.690
6)	M	delta-BHC	10.45	11.88	3185341	1189578	51.547	51.440
7)	M	Heptachlor	10.86	12.03	3349989	1174278	54.147	53.909
8)	M	Aldrin	11.45	12.67	2942024	1169210	52.995	51.774
9)	M	Heptachlor Epoxide	12.60	13.72	2822391	1122480	54.345	52.179
10)	M	gamma-Chlordane	12.82	14.05	2865784	1179855	53.965	52.809
11)	M	alpha-Chlordane	13.05	14.31	2746542	1156204	53.655	53.121
12)	M	4,4'-DDE	13.18	14.55	2602926	1087246	51.698	51.887
13)	M	Endosulfan I	13.30	14.43	2763919	1044277	54.347	52.162
14)	M	Dieldrin	13.72	14.91	2517180	1032795	52.093	51.125
15)	M	Endrin	14.12	15.44	2092960	717855	50.419	49.893
16)	M	4,4'-DDD	14.21	15.53	2271325	899759	52.735	53.211
17)	M	Endosulfan II	14.51	15.79	2392627	976642	52.951	50.198
18)	M	4,4'-DDT	14.67	16.07	1783080	585762	41.537m	42.614m
19)	M	Endrin Aldehyde	15.21	16.36	2082715	886858	52.802	52.654
20)	M	Methoxychlor	15.46	17.25	1121759	394681	43.030	43.956
21)	M	Endosulfan Sulfate	15.94	16.87	2279253	919245	53.255	51.535
22)	M	Endrin Ketone	16.43	17.95	2972587	1286508	52.285	53.290

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
025F0201.D 8081EC.M Tue Jun 13 08:31:31 2006 Page 1

ANALYSIS SEQUENCE

BPG0194

Instrument: SVOAGC3

Calibnration ID: UNASSIGNED Chlordane Calibration CHADIC

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0194-CAL1	QC		1		6E07005		
BPG0194-CAL2	QC		2		6E07006		
BPG0194-CAL3	QC		3		6E07007		
BPG0194-CAL4	QC		4		6E07008		
BPG0194-CAL5	QC		5		6E07009		
BPG0194-SCV1	QC		6		6E07010		
BPG0194-PEM1	QC		7		6E02036		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/4/06	15	GE040606-15	0605478-09	8081EB	(R3) DDT/DDE	SW
	16	16	10			
	17	17	11		(R4) DDT	
	18	18	12		(R5) DDE/DDT	
	19	19	13		(R5) DDE/DDT	
	20	20	14			
	21	21	15		(R10) DDE/DDT	
	22	22	16		(R10) DDE/DDT	
	23	23	17		(R1) (R2) Chlordane	
	24	24	10MS1			
	25	25	10MSD1			
	26	26	Hexane			
	27	27	Pest 50 cc		DDT low front 8:42PM GF040005	
6/4/06	27	27	Pest 50 cc	8081EB	GF040005	SW
6/5/06	1	GE060506-1	Prime			SW
	2	2	Pem		8:33 Am	
	3	3	Pest 50 cc		GF050306 8:51 Am	
	4	4	chlordane 100 ppb		CHANIC GE070005	
	5	5	200 ppb		006	
	6	6	250 ppb		007	
	7	7	400 ppb		008	
	8	8	500 ppb		009	
	9	9	chlordane SS		GE070106	
	10	10	BF60307-BLK1			
	11	11	0605478-01			
6/4/06	12	GE060606-12	02	8081EB		SW

CONTROL NUMBER 60.0012-0601A

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Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE060506\002F0101.D Vial: 2
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE060506\002F0101.D\002R0101.D
Acq On : 05 Jun 06 08:23 AM Operator: [GC]2R0101.D\DATA.MS
Sample : PEM Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 6 6:35 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EB.M
Title :
Last Update : Thu Jun 01 10:23:42 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.80	8.90	2810148	953272	45.091	41.149
					Recovery	=	90.18%	82.30%
23)	S	Decachlorobiphenyl	18.33	21.04	2039850	824155	41.401m	36.528
					Recovery	=	82.80%	73.06%
		Target Compounds						
2)	M	Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3)	M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	M	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
5)	M	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6)	M	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	M	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
8)	M	Aldrin	0.00	0.00	0	0	N.D.	N.D.
9)	M	Heptachlor Epoxide	0.00	0.00	0	0	N.D.	N.D.
10)	M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	M	alpha-Chlordane	0.00	0.00	0	0	N.D.d	N.D.d
12)	M	4,4'-DDE	0.00	0.00	0	0	N.D.d	N.D.
13)	M	Endosulfan I	0.00	0.00	0	0	N.D.d	N.D.
14)	M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15)	M	Endrin	14.21	15.51	5165349	1663394	105.403m	100.320m
16)	M	4,4'-DDD	0.00	15.63	0	41992	N.D.d	4.597m
17)	M	Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18)	M	4,4'-DDT	14.76	16.14	4832336	1695655	96.380	99.290
19)	M	Endrin Aldehyde	15.31	16.44	60656	10386	0.485m	0.368m
20)	M	Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
21)	M	Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22)	M	Endrin Ketone	16.51	17.99	147768	55535	0.921	3.294m#

E $\frac{208424}{5373773} = 3.88\%$ DDT $\frac{0}{4832336} = 0\%$

E $\frac{65921}{1729375}$ 3.81% DDT $\frac{41992}{1737647} = 2.42\%$

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
002F0101.D 8081EB.M Tue Jun 06 06:35:49 2006 Page 1

Response Factor Report GC3

Method : Q:\SVOA\GC3_GE\METHODS\CHADIC.M
Title :
Last Update : Tue Jun 06 06:47:12 2006
Response via : Initial Calibration

Calibration Files
100 =004F0101.D 200 =005F0101.D 250 =006F0101.D
400 =007F0101.D 500 =008F0101.D

		Compound	100	200	250	400	500	Avg		%RSD
1)	S	Tetrachloro-m-xylene	62.7	63.4	57.8	59.4	59.7	60.6	E3	3.94
2)	L	Chlordane (1)	2.1	2.2	2.0	2.0	2.1	2.1	E3	3.30
3)	L	Chlordane (2)	3.6	3.7	3.4	3.5	3.6	3.6	E3	3.10
4)	L	Chlordane (3)	7.5	7.6	7.0	7.2	7.3	7.3	E3	3.47
5)	L	Chlordane (4)	12.2	12.0	11.0	11.0	11.1	11.5	E3	5.23
6)	S	Decachlorobiphenyl	48.2	49.0	44.7	44.8	44.7	46.3	E3	4.58

Signal #2 Calibration Files
100 =004R0101.D 200 =005R0101.D 250 =006R0101.D
400 =007R0101.D 500 =008R0101.D

		Compound	100	200	250	400	500	Avg		%RSD
1)	S	Tetrachloro-m-xylene	20.4	21.2	19.9	21.2	21.9	20.9	E3	3.74
2)	L	Chlordane (1)	767.2	811.8	756.5	734.8	761.7	766.4		3.68
3)	L	Chlordane (2)	1.1	1.2	1.1	1.2	1.2	1.2	E3	3.94
4)	L	Chlordane (3)	2.5	2.9	2.7	2.8	2.9	2.8	E3	5.86
5)	L	Chlordane (4)	2.4	2.5	2.3	2.4	2.5	2.4	E3	3.24
6)	S	Decachlorobiphenyl	20.3	20.0	18.4	18.5	18.9	19.2	E3	4.55

ANALYSIS SEQUENCE

BPG0204

Instrument: SVOAGC3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0204-PEM1	QC		1		6E02036		
BPG0204-CAL1	QC		2		6E30081		
BPG0204-CAL2	QC		3		6E30082		
BPG0204-CAL3	QC		4		6E30083		
BPG0204-CAL4	QC		5		6E30084		
BPG0204-CAL5	QC		6		6E30085		
BPG0204-CAL6	QC		7		6E30086		
BPG0204-CAL7	QC		8		6E30087		
BPG0204-SCV1	QC		9		6E30089		
BPG0204-PEM2	QC		10		6E02036		
BPG0204-CCV1	QC		11		6F13062		
0606078-17RE1	SVOC: 8081A ppb Pesticides	F	12				MACTEC Engineering & Consulting, In
0606078-17RE2	SVOC: 8081A ppb Pesticides	F	13				MACTEC Engineering & Consulting, In
0606078-01RE1	SVOC: 8081A ppb Pesticides	F	14				MACTEC Engineering & Consulting, In
0606078-02RE1	SVOC: 8081A ppb Pesticides	F	15				MACTEC Engineering & Consulting, In
0606078-08RE1	SVOC: 8081A ppb Pesticides	F	16				MACTEC Engineering & Consulting, In
0606078-10RE1	SVOC: 8081A ppb Pesticides	F	17				MACTEC Engineering & Consulting, In
0606078-04RE1	SVOC: 8081A ppb Pesticides	F	18				MACTEC Engineering & Consulting, In
0606078-05RE1	SVOC: 8081A ppb Pesticides	F	19				MACTEC Engineering & Consulting, In
BPG0204-CCV2	QC		20		6F13062		
BPG0204-CCV3	QC		21		6F13061		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 3 Front/Rear RUN LOG

LUMN RTX CLPesticide

ATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
12/06	39	GE0612GA-39	0606078-05	8081GC	20x (RT)	SEP
↓	40	40	05MS	↓	020x	↓
	41	41	05MSD		20x	
	23	23	Hexane			
	25	25	Pest 50 CL		6F12082	
↓	25	25	Pest 50 CL		6F12082	↓
12/06	26	GE0612GA-26	Chlor 250 ppb	8081GC	6F12083	SB
13/06	1	GE061306-1	Prime	8081EC		SEP
↓	2	2	Pem	↓		↓
	3	3	Pest 50CL		DDT LOW	
13/06	4	GE061304	Chlor 250 ppb	8081EC		SB
13/06	1	GE0613GA-01	Prime			SEP
↓	2	02	Pem			↓
	3	03	Pest 50		DDT Low	
	4	04	Pest 50		DDT Low	
	25	25	Pem	8081ED	12:20 PM	
	26	26	Pest 5ppb ✓		6E30081	
	27	27	10ppb ✓		082	
	28	28	20ppb ✓		083	
	29	29	50ppb ✓		084	
	30	30	60ppb ✓		085	
	31	31	80ppb ✓		086	
	32	32	100ppb ✓		087	
	33	33	SS		088	
↓	34	34	Pest SS ✓		6E30 089	↓
3/06	35	GE0613GA-35	PEM ✓	8081ED		SB

TROL NUMBER 60.0012-0601A

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Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06136A\025F0301.D Vial: 25
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06136A\025F0301.D\025R0301.D
Acq On : 13 Jun 06 12:20 PM Operator: [GC]5R0301.D\DATA.MS
Sample : PEM Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 14 7:42 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081ED.M
Title :
Last Update : Tue Jun 13 17:04:26 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.69	8.81	3090492	1021055	45.601m	43.147
					Recovery	=	91.20%	86.29%
3)	S	Decachlorobiphenyl	18.19	20.86	1874254	814539	38.707	38.582
					Recovery	=	77.41%	77.16%
		Target Compounds						
2)	M	Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3)	M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	M	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
5)	M	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6)	M	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	M	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
8)	M	Aldrin	0.00	0.00	0	0	N.D.	N.D.
9)	M	Heptachlor Epoxide	0.00	0.00	0	0	N.D.	N.D.
0)	M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
1)	M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
2)	M	4,4'-DDE	0.00	0.00	0	0	N.D.d	N.D.
3)	M	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
4)	M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
5)	M	Endrin	14.09	15.41	4874187	1604896	109.137m	99.823m
6)	M	4,4'-DDD	14.21	15.52	149561	128176	3.298m	7.606m#
7)	M	Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
8)	M	4,4'-DDT	14.65	16.04	3751062	1300211	92.172	101.122
9)	M	Endrin Aldehyde	15.19	16.34	35690	11219	N.D.m	N.D.m
0)	M	Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
1)	M	Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
2)	M	Endrin Ketone	16.39	17.90	287461	86551	3.160	3.658m

E $\frac{323151}{5197338} = 6.2\%$ DDT $\frac{149561}{3900623} = 3.8\%$

E $\frac{97970}{1702666}$ 5.7% DDT $\frac{128176}{1428387} = 8.9\%$

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
025F0301.D 8081ED.M Wed Jun 14 07:42:57 2006 Page 1

Response Factor Report GC3

Method : Q:\SVOA\GC3_GE\METHODS\8081ED.M
Title :
Last Update : Tue Jun 13 17:04:26 2006
Response via : Initial Calibration

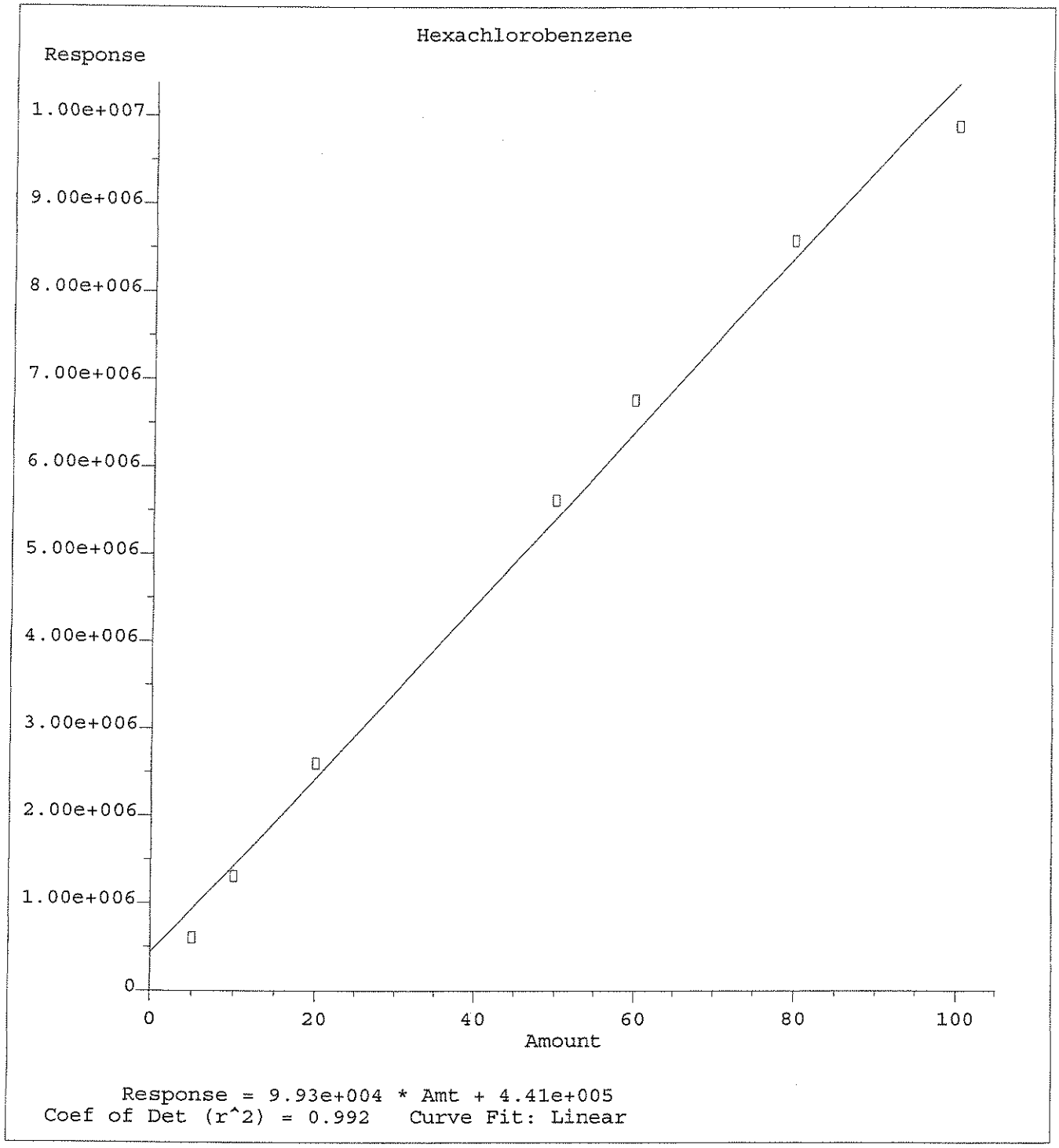
Calibration Files
10 =027F0301.D 20 =028F0301.D 5 =026F0301.D
60 =030F0301.D 80 =031F0301.D 100 =032F0301.D

		Compound	10	20	5	60	80	100	Avg		%RSD
1)	S	Tetrachloro-m-xylen	74.3	75.8	65.1	70.4	67.9	63.3	69.4	E3	6.55
2)	M	Hexachlorobenzene	130.9	129.9	121.0	112.7	107.2	98.8	116.1	E3	10.17
3)	M	alpha-BHC	65.4	75.2	57.6	80.1	80.3	75.7	73.1	E3	11.55
4)	M	gamma-BHC (Lindane)	68.0	72.3	57.9	74.8	74.1	69.9	69.9	E3	8.28
5)	M	beta-BHC	40.1	41.5	34.4	40.3	39.4	37.4	38.9	E3	6.06
6)	M	delta-BHC	59.3	66.5	51.0	73.9	74.3	70.4	66.8	E3	12.99
7)	M	Heptachlor	71.8	76.1	65.5	73.7	72.7	67.9	71.4	E3	5.01
8)	M	Aldrin	59.8	64.9	54.4	65.3	65.1	61.1	62.0	E3	6.44
9)	M	Heptachlor Epoxide	60.4	63.9	55.8	61.4	60.4	56.5	59.8	E3	4.68
10)	M	gamma-Chlordane	60.6	64.5	55.4	62.3	61.6	57.7	60.5	E3	4.97
11)	M	alpha-Chlordane	61.8	63.8	60.6	59.8	58.7	54.8	59.8	E3	4.70
12)	M	4,4'-DDE	56.2	59.4	53.6	57.9	57.6	54.0	56.5	E3	3.71
13)	M	Endosulfan I	58.6	62.3	54.2	60.5	60.0	56.8	58.8	E3	4.55
14)	M	Dieldrin	51.2	55.5	46.2	55.7	55.6	52.1	53.0	E3	6.57
15)	M	Endrin	42.9	46.1	38.7	46.2	46.2	43.1	44.2	E3	6.43
16)	M	4,4'-DDD	45.8	50.3	41.7	51.8	52.4	49.4	48.9	E3	7.79
17)	M	Endosulfan II	50.5	53.7	45.5	52.0	51.8	48.4	50.5	E3	5.45
18)	M	4,4'-DDT	41.4	38.9	39.7	40.9	42.5	39.4	40.6	E3	3.27
19)	M	Endrin Aldehyde	45.9	47.6	43.6	44.9	44.3	41.0	44.6	E3	4.58
20)	M	Methoxychlor	17.1	20.3	12.7	23.2	23.5	22.0	20.2	E3	19.57
21)	M	Endosulfan Sulfate	49.0	51.2	46.6	50.2	49.2	45.6	48.9	E3	4.14
22)	M	Endrin Ketone	59.3	68.4	55.3	64.2	62.6	58.1	61.7	E3	7.16
23)	S	Decachlorobiphenyl	52.7	54.3	51.0	49.7	47.3	43.3	49.9	E3	7.33

Signal #2 Calibration Files
10 =027R0301.D 20 =028R0301.D 5 =026R0301.D
60 =030R0301.D 80 =031R0301.D 100 =032R0301.D

		Compound	10	20	5	60	80	100	Avg		%RSD
1)	S	Tetrachloro-m-xylen	21.5	23.7	20.3	24.4	24.4	23.0	23.0	E3	6.71
2)	M	Hexachlorobenzene	39.0	42.0	36.9	40.9	40.0	37.8	39.5	E3	4.55
3)	M	alpha-BHC	18.8	23.1	16.7	29.2	30.3	29.5	25.0	E3	22.08
4)	M	gamma-BHC (Lindane)	20.2	24.1	19.0	28.3	29.0	27.6	25.1	E3	16.13
5)	M	beta-BHC	12.6	14.4	12.6	14.9	15.0	14.1	14.0	E3	7.14
6)	M	delta-BHC	18.5	22.0	16.4	26.8	27.8	26.5	23.4	E3	19.18
7)	M	Heptachlor	21.3	23.7	19.4	25.9	26.3	25.0	23.8	E3	10.60
8)	M	Aldrin	20.3	22.8	19.2	25.5	26.0	24.7	23.3	E3	11.27
9)	M	Heptachlor Epoxide	21.9	23.5	22.1	24.2	24.4	23.0	23.2	E3	4.12
10)	M	gamma-Chlordane	22.7	24.6	21.3	25.2	25.3	23.8	23.9	E3	6.10
11)	M	alpha-Chlordane	22.0	24.3	20.2	24.7	24.6	23.1	23.3	E3	7.17
12)	M	4,4'-DDE	19.7	22.0	18.3	23.6	23.9	22.6	21.9	E3	9.51
13)	M	Endosulfan I	19.1	21.2	16.9	22.5	22.7	21.4	20.8	E3	10.03
14)	M	Dieldrin	18.4	20.4	17.5	22.4	22.9	21.7	20.7	E3	9.85
15)	M	Endrin	13.1	14.6	13.1	16.1	16.6	15.7	15.0	E3	9.41
16)	M	4,4'-DDD	16.4	18.3	14.9	19.7	20.1	19.0	18.2	E3	10.30
17)	M	Endosulfan II	22.5	21.8	25.2	21.8	22.3	20.7	22.3	E3	6.23
18)	M	4,4'-DDT	7.7	9.6	6.7	12.5	13.2	12.7	10.6	E3	24.77
19)	M	Endrin Aldehyde	18.7	19.3	16.9	18.8	18.6	17.6	18.4	E3	4.61
20)	M	Methoxychlor	4.7	6.3	3.2	7.9	8.3	7.8	6.6	E3	29.65
21)	M	Endosulfan Sulfate	17.3	18.9	16.4	19.5	19.7	18.5	18.5	E3	6.59
22)	M	Endrin Ketone	22.6	25.8	21.6	26.9	27.0	25.3	25.1	E3	8.49
23)	S	Decachlorobiphenyl	22.2	22.9	21.5	21.6	20.9	19.3	21.5	E3	5.38

(#) = Out of Range ### Number of calibration levels exceeded format ###
8081ED.M Wed Jun 14 07:54:58 2006



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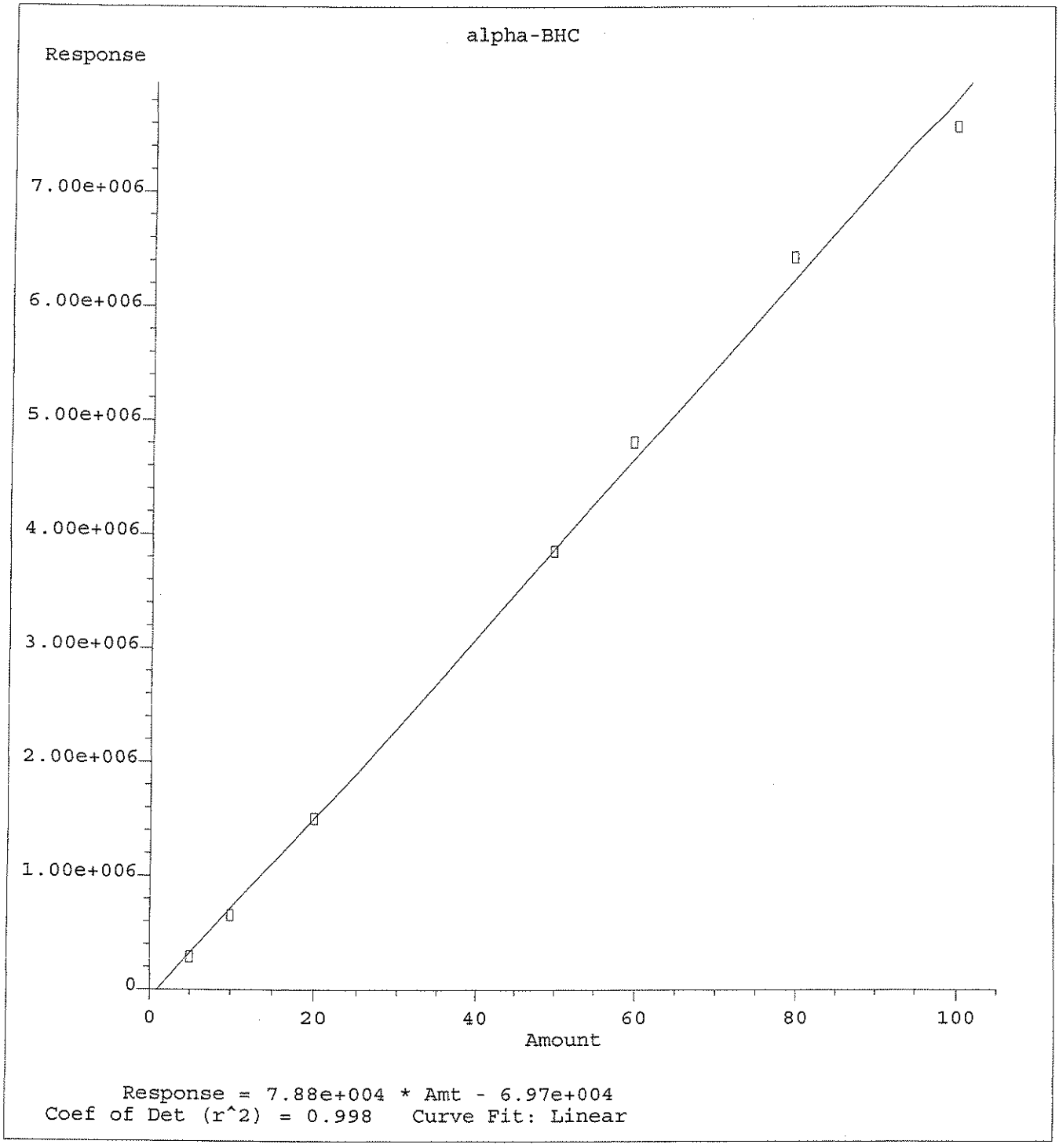
Calibration Table Last Updated: Tue Jun 13 17:04:26 2006



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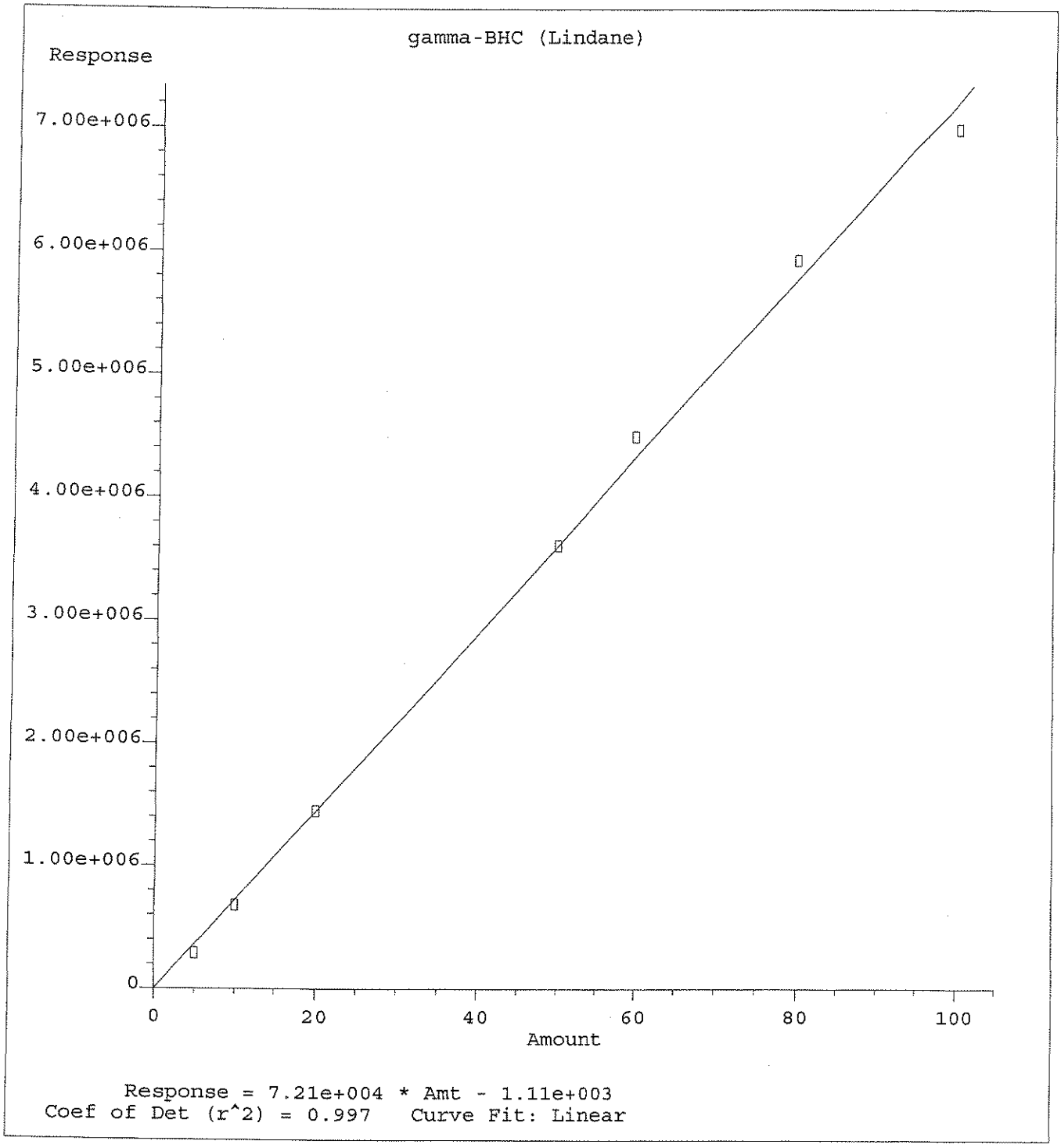
Calibration Table Last Updated: Tue Jun 13 17:04:26 2006



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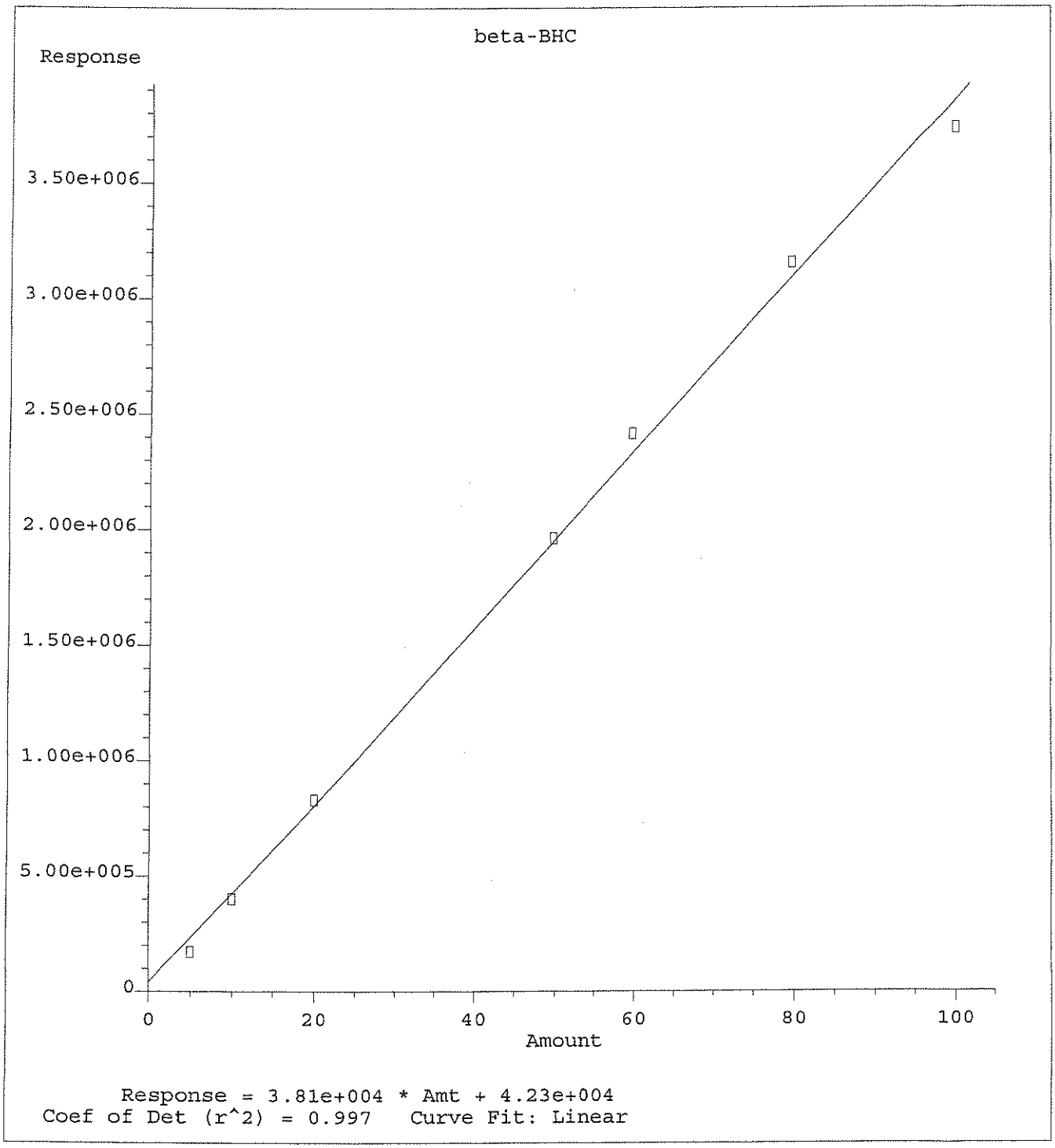

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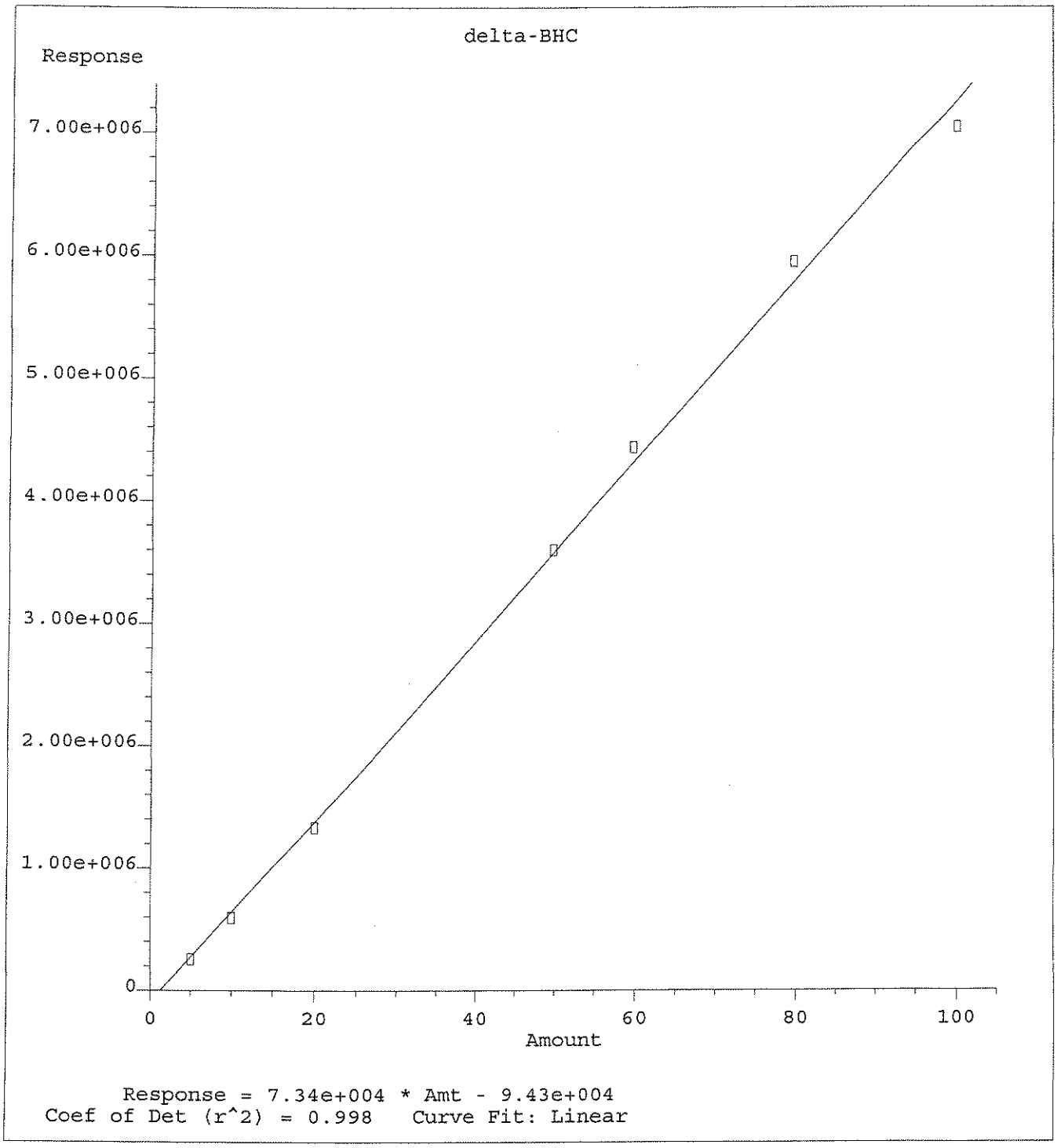

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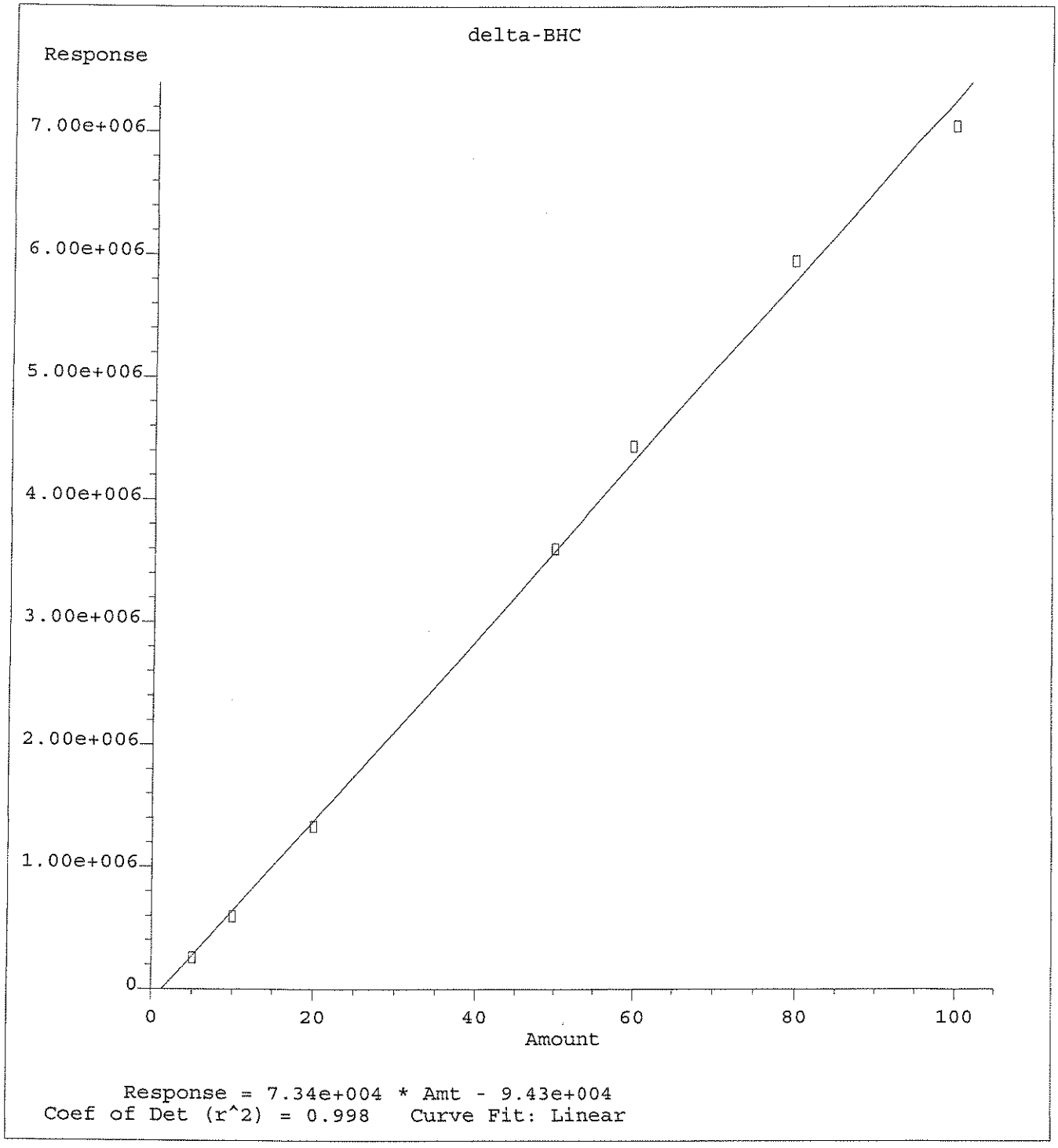

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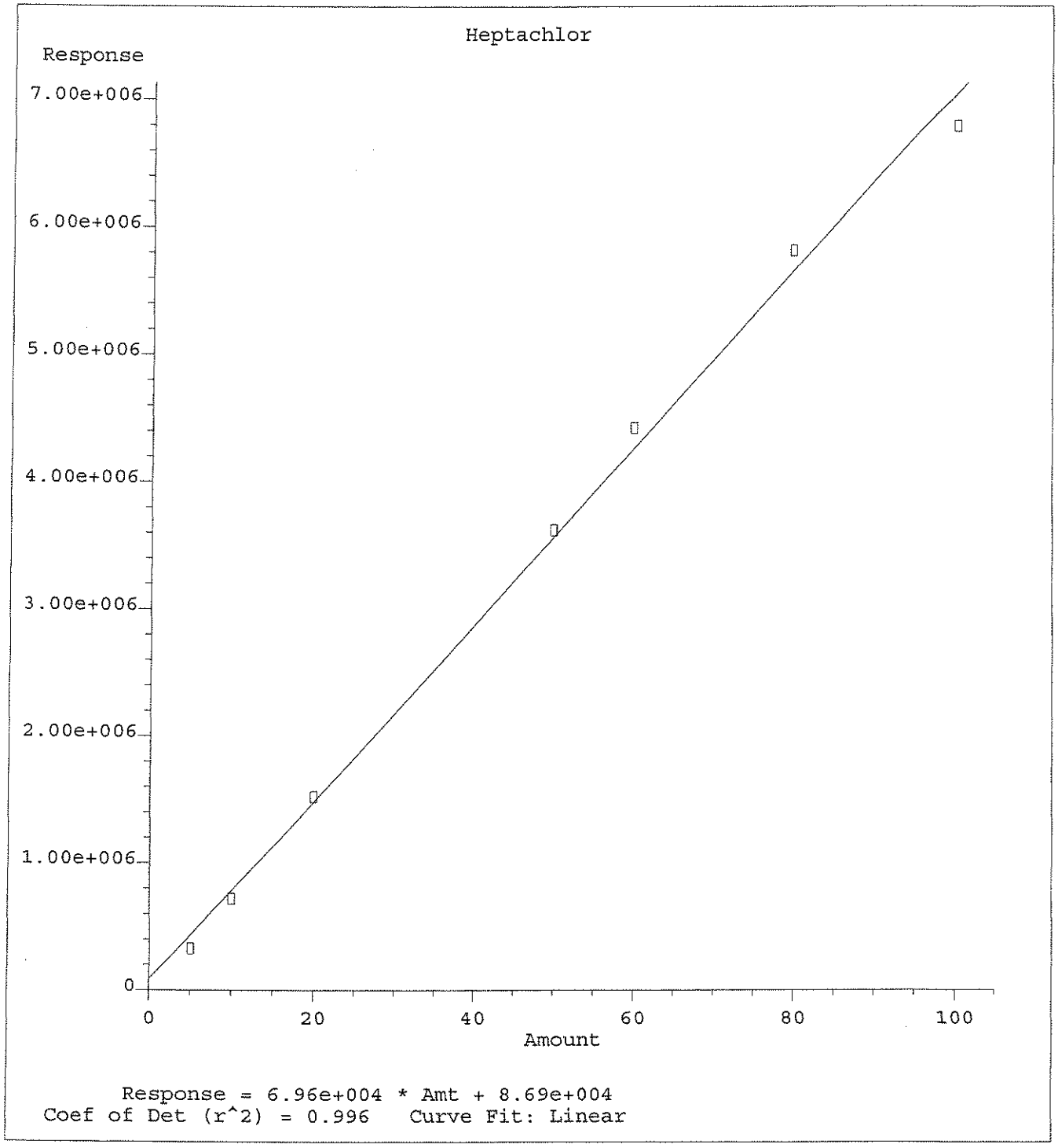

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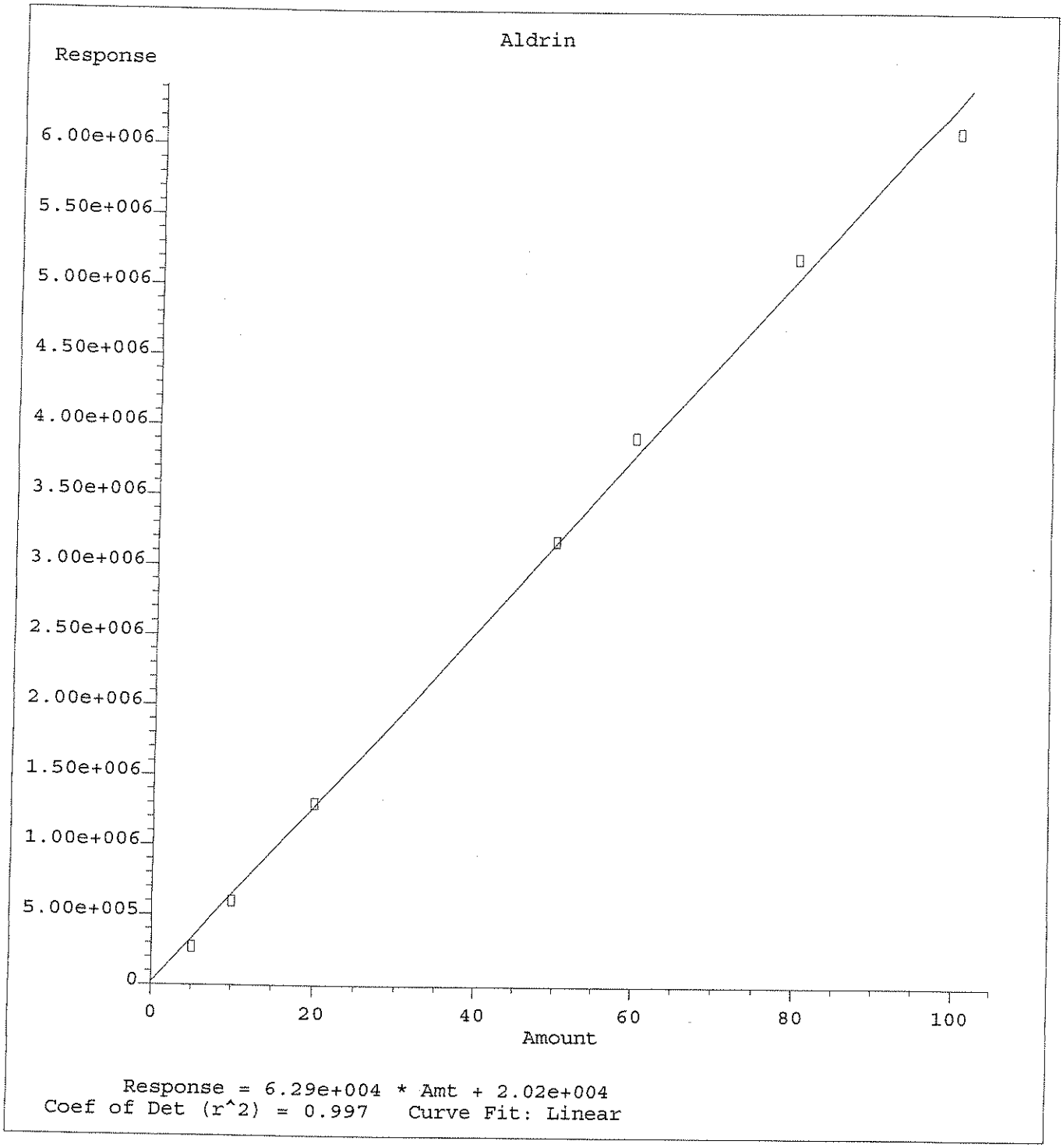

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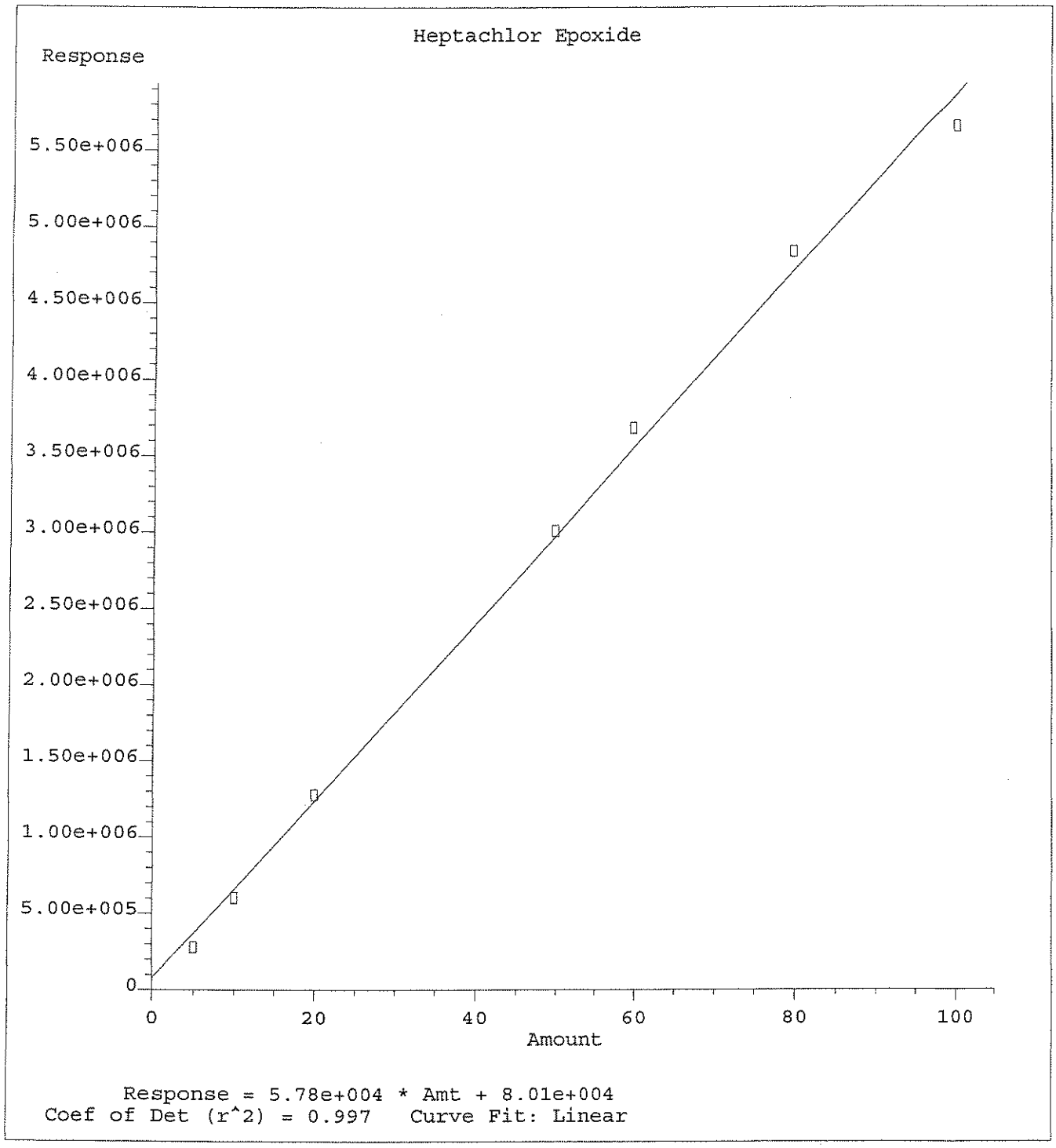

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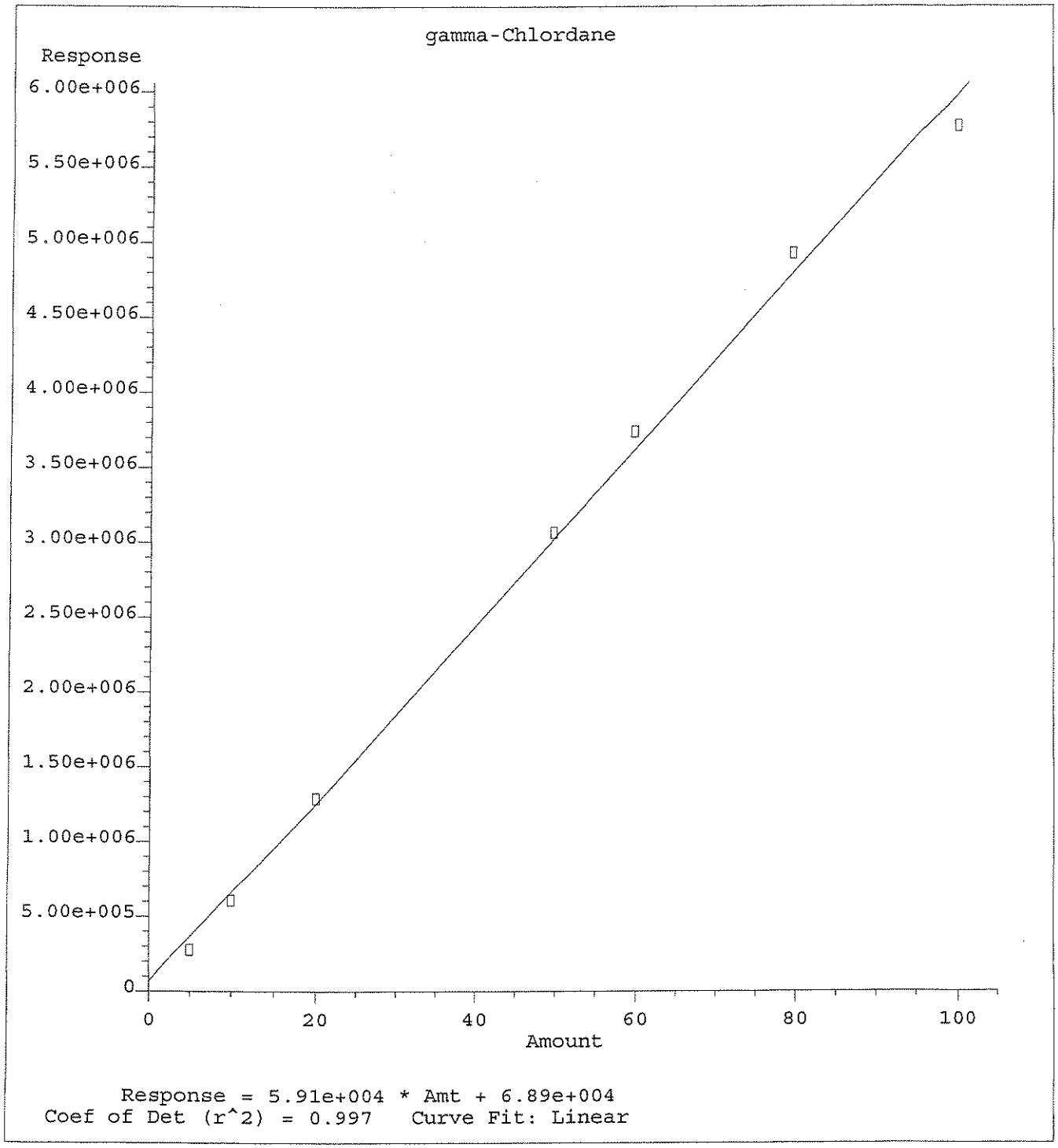

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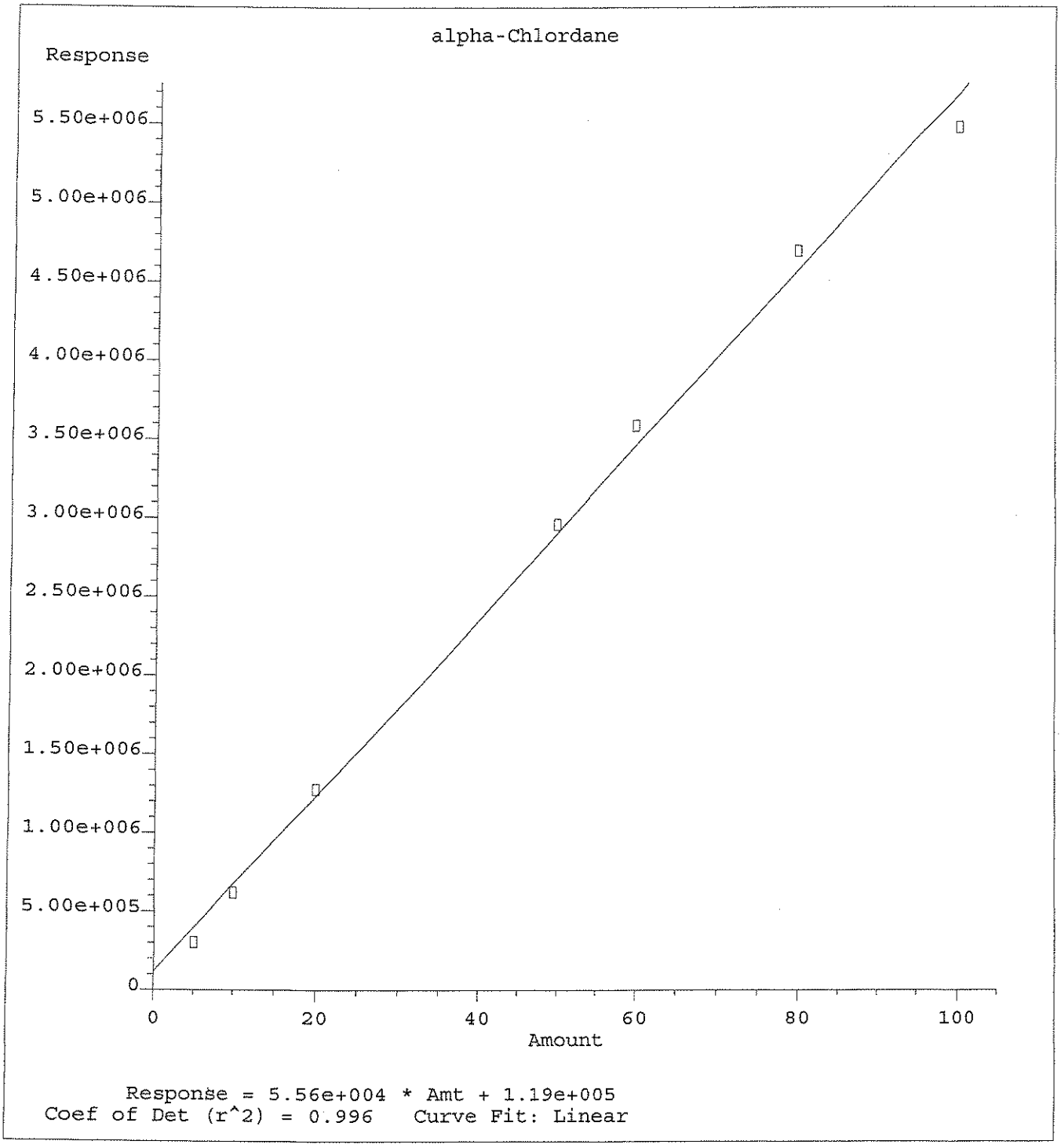

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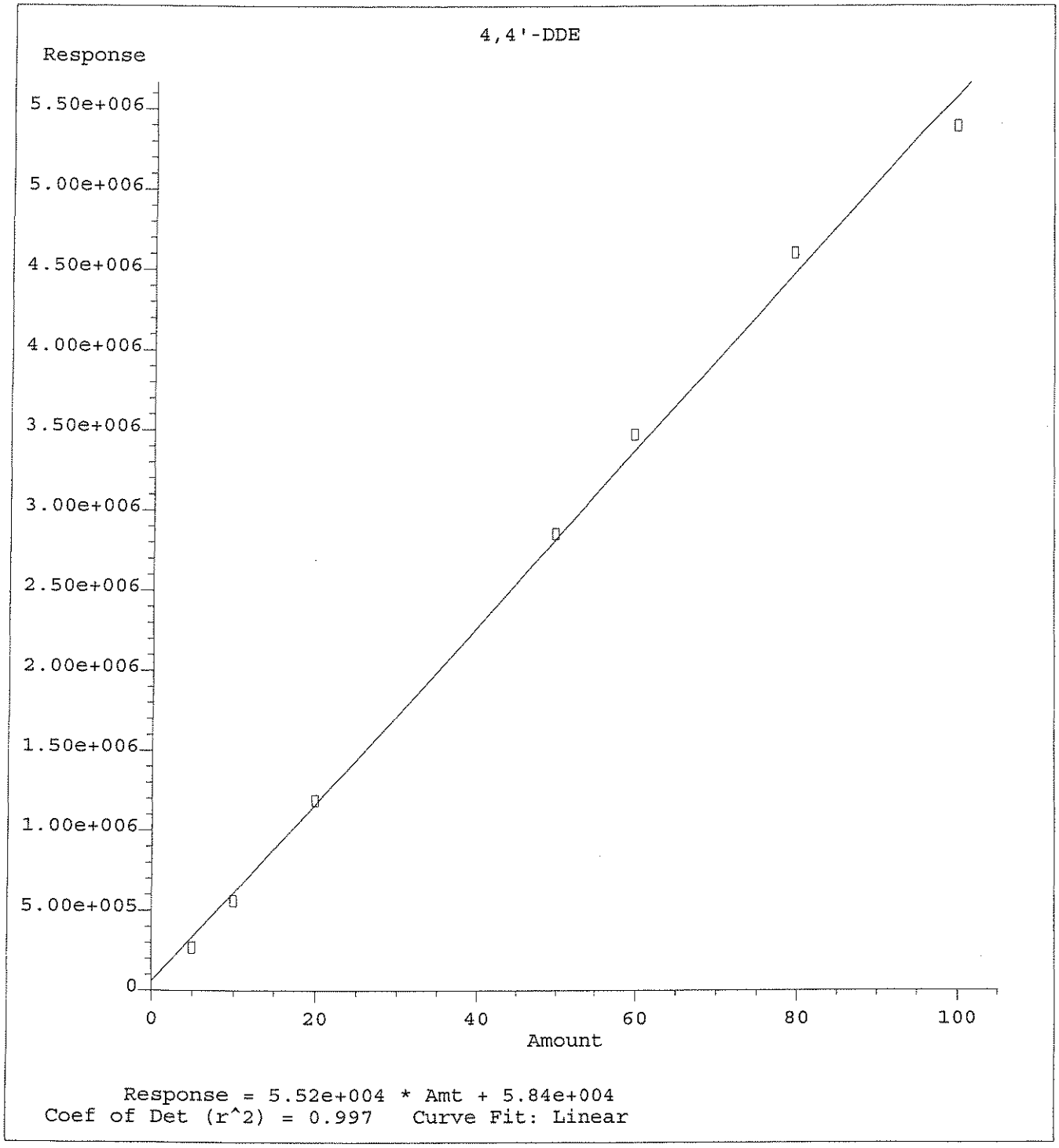

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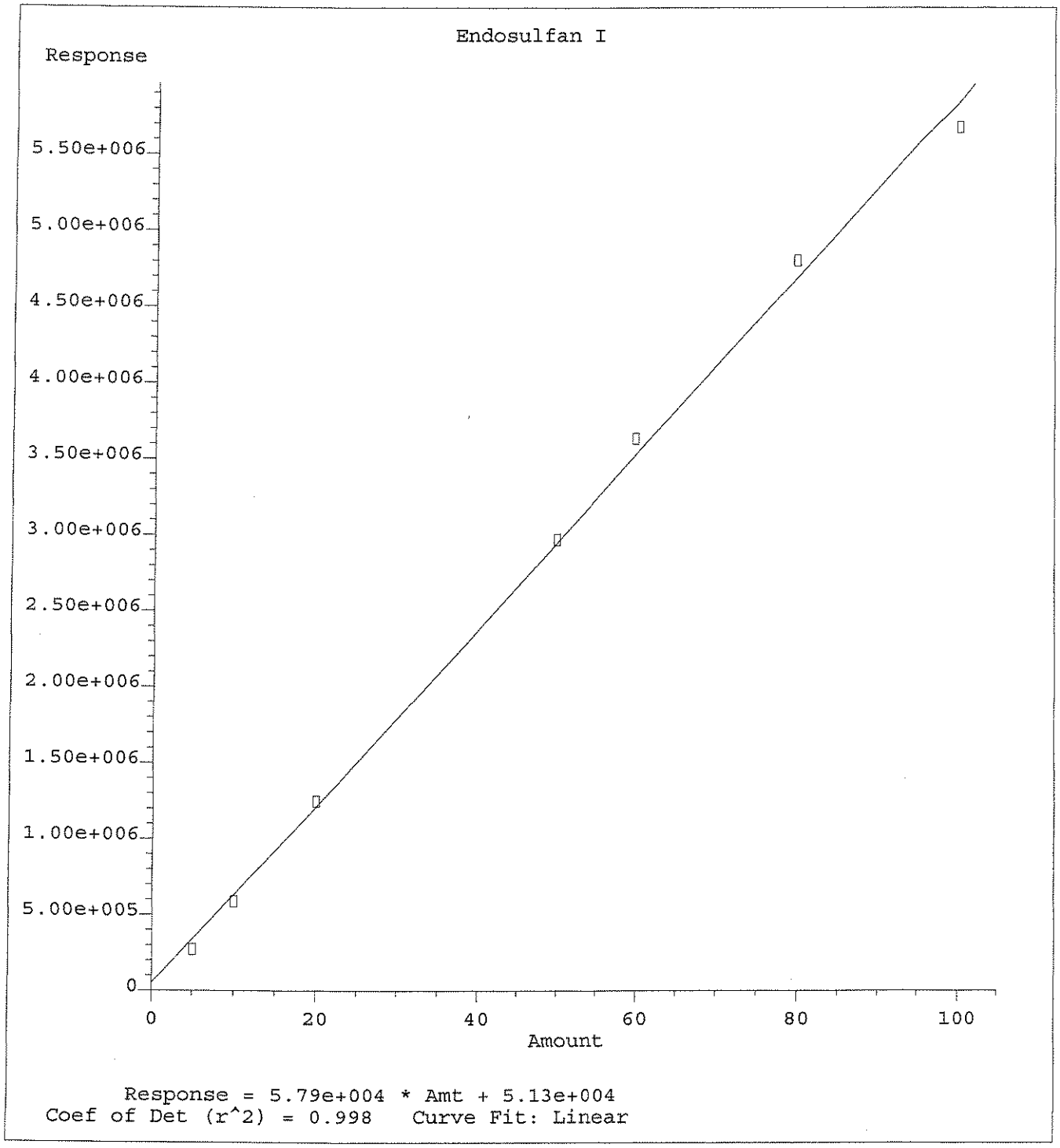

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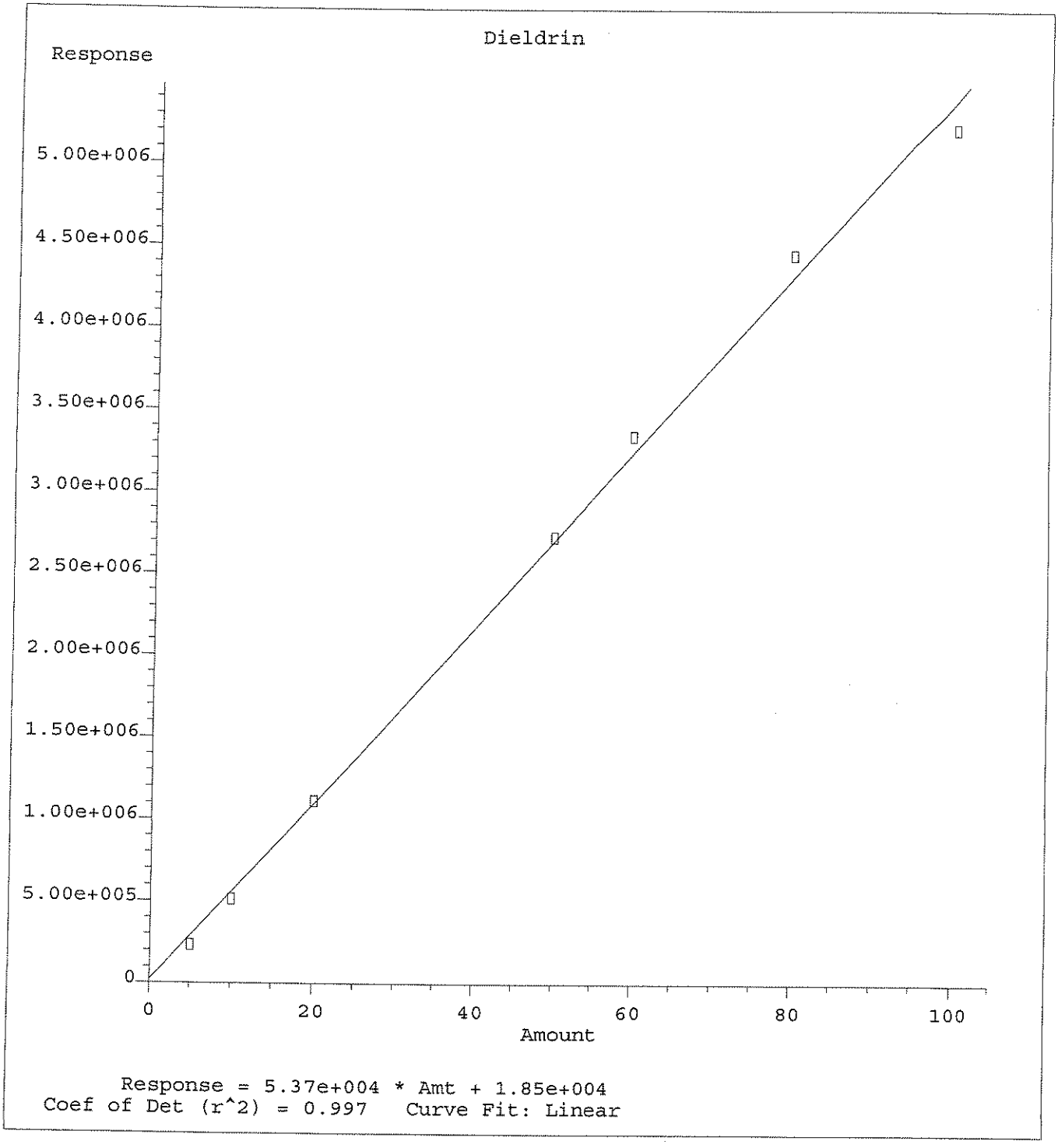

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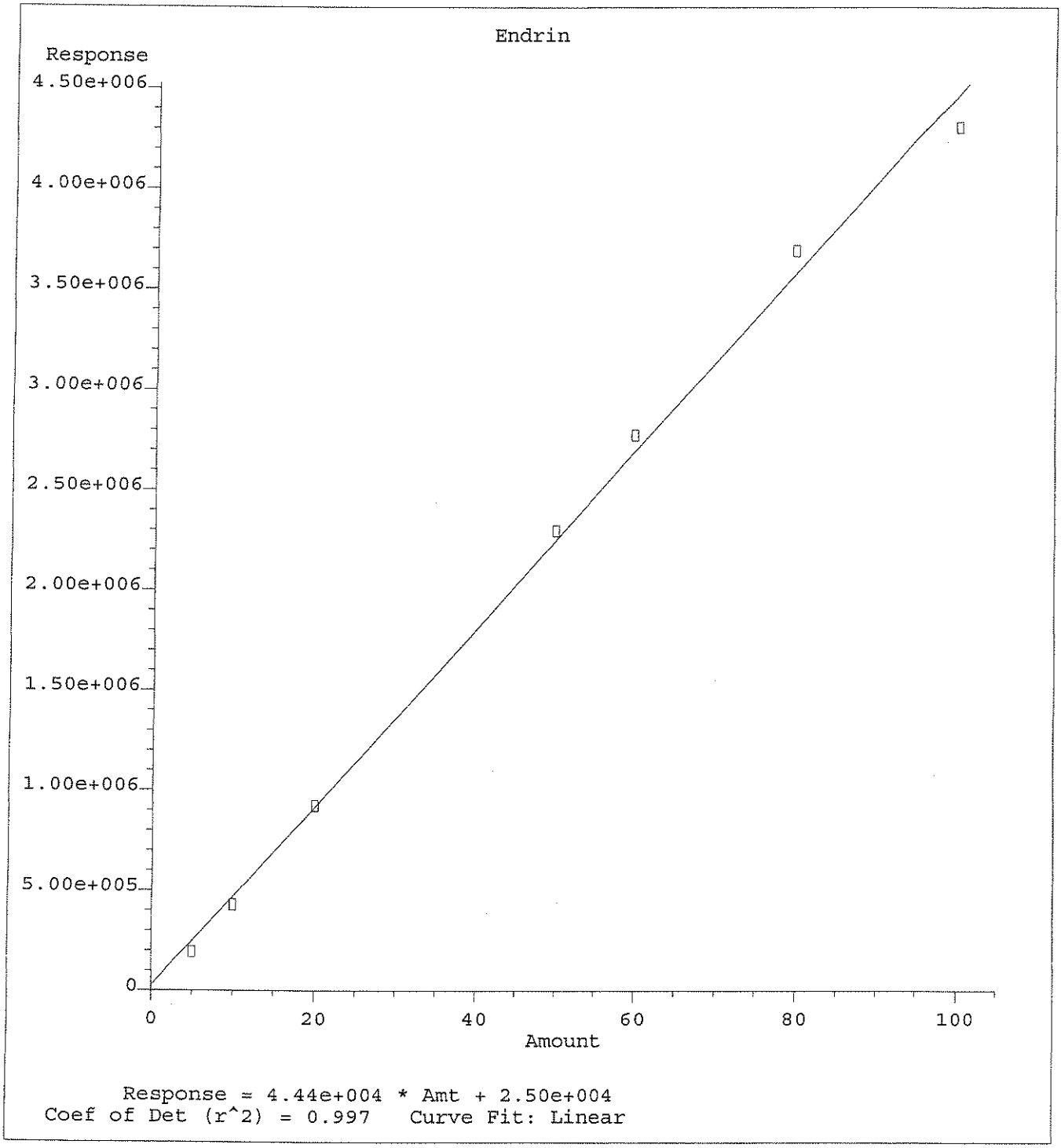

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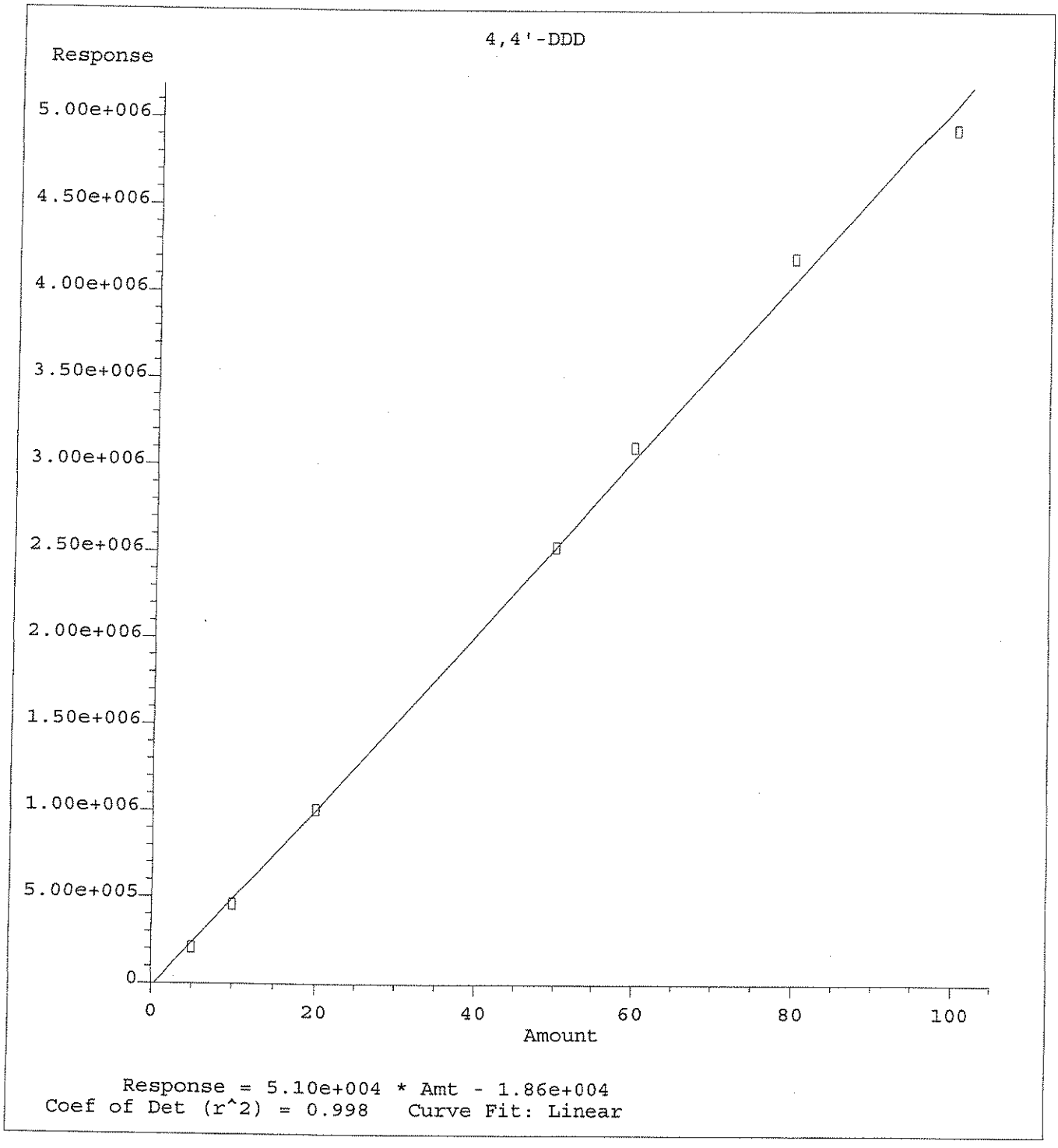

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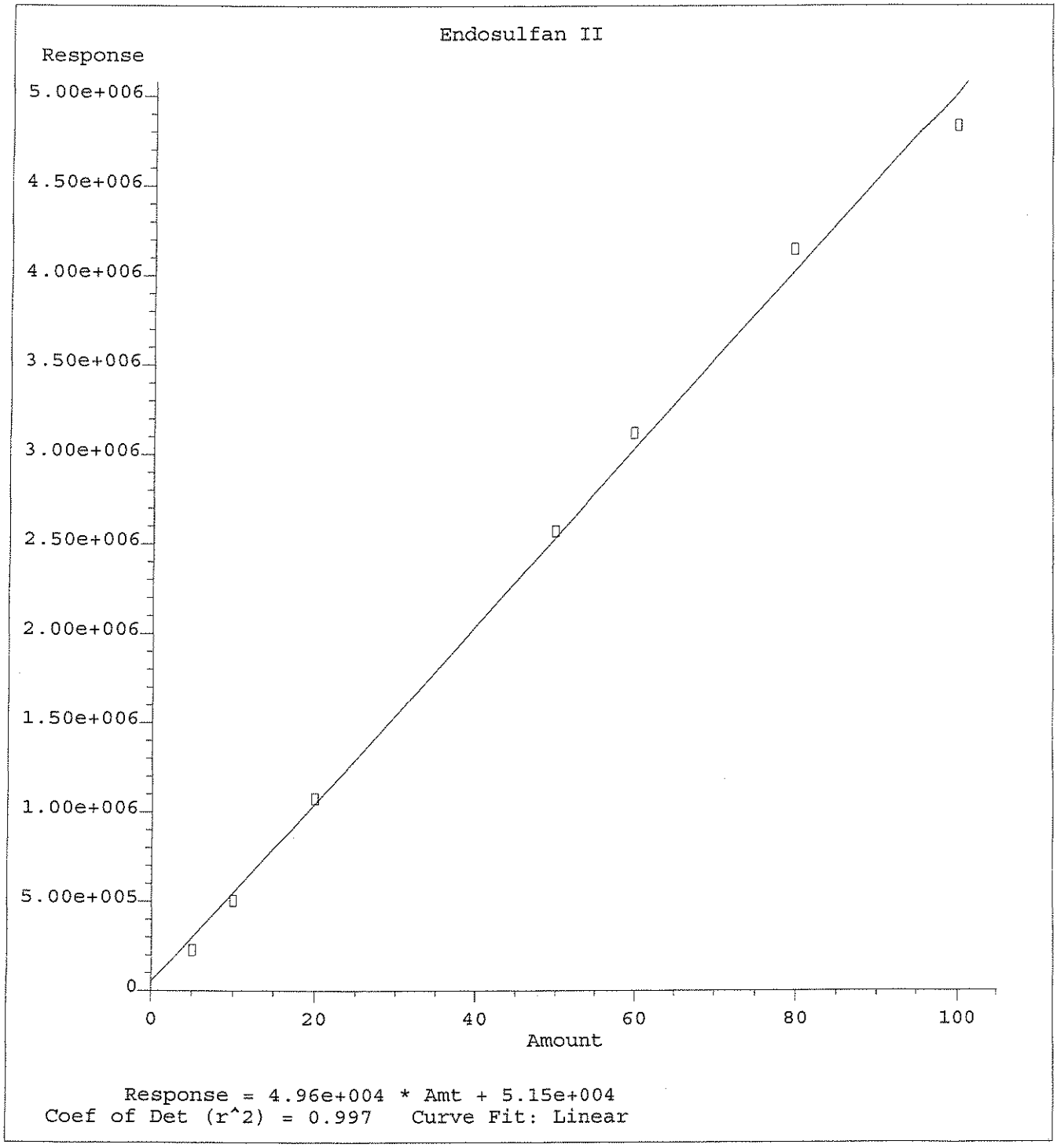

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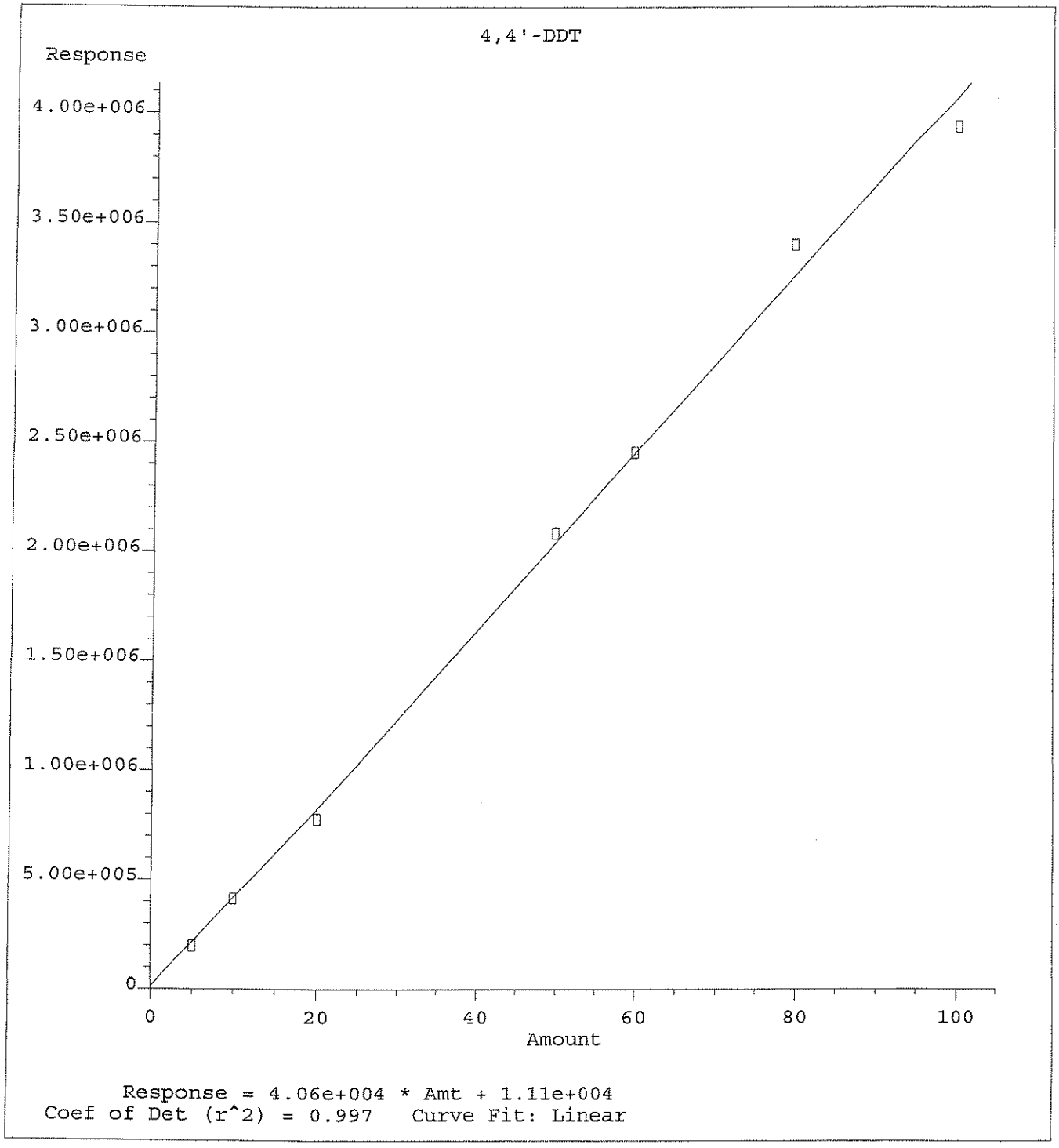

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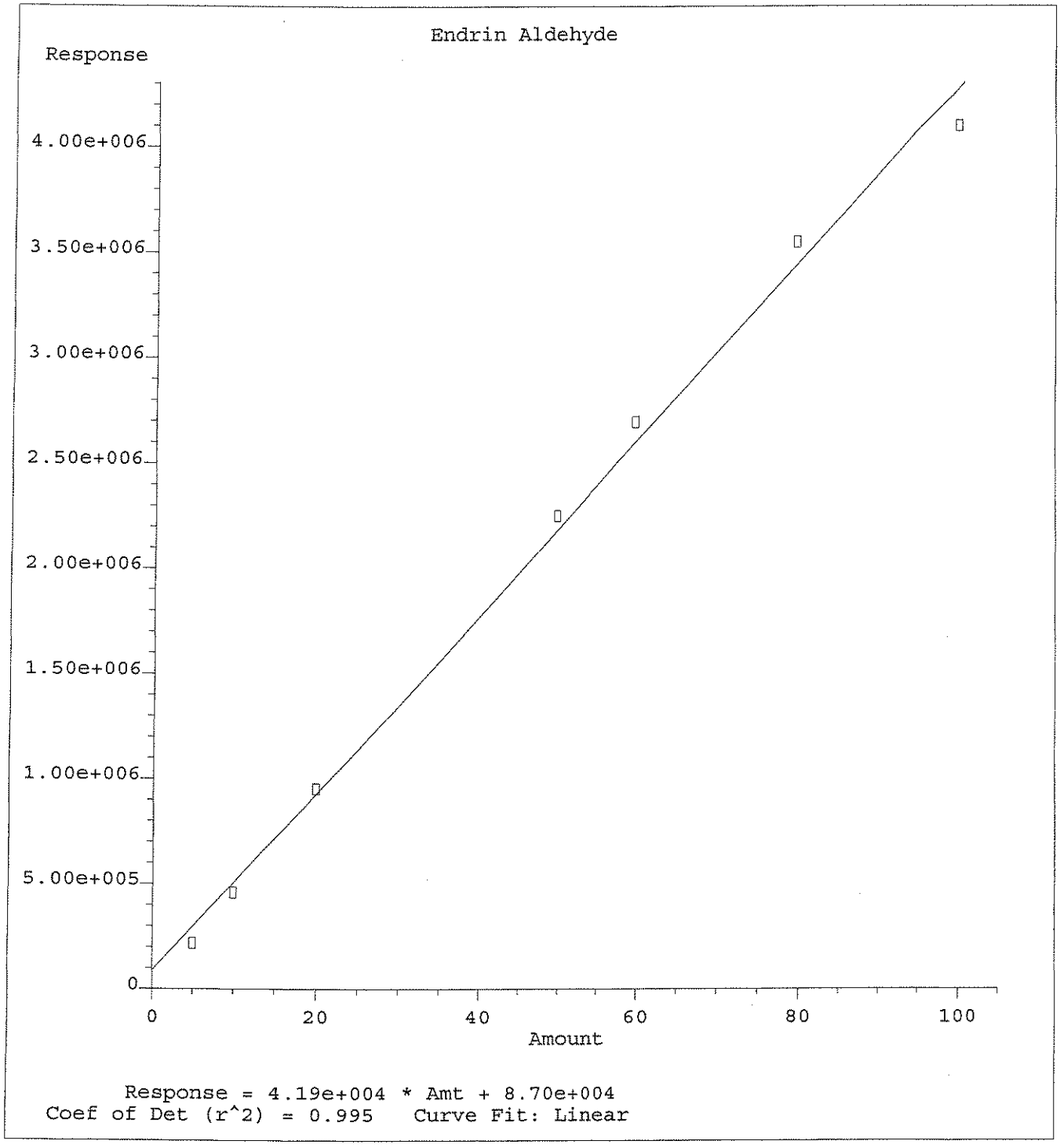

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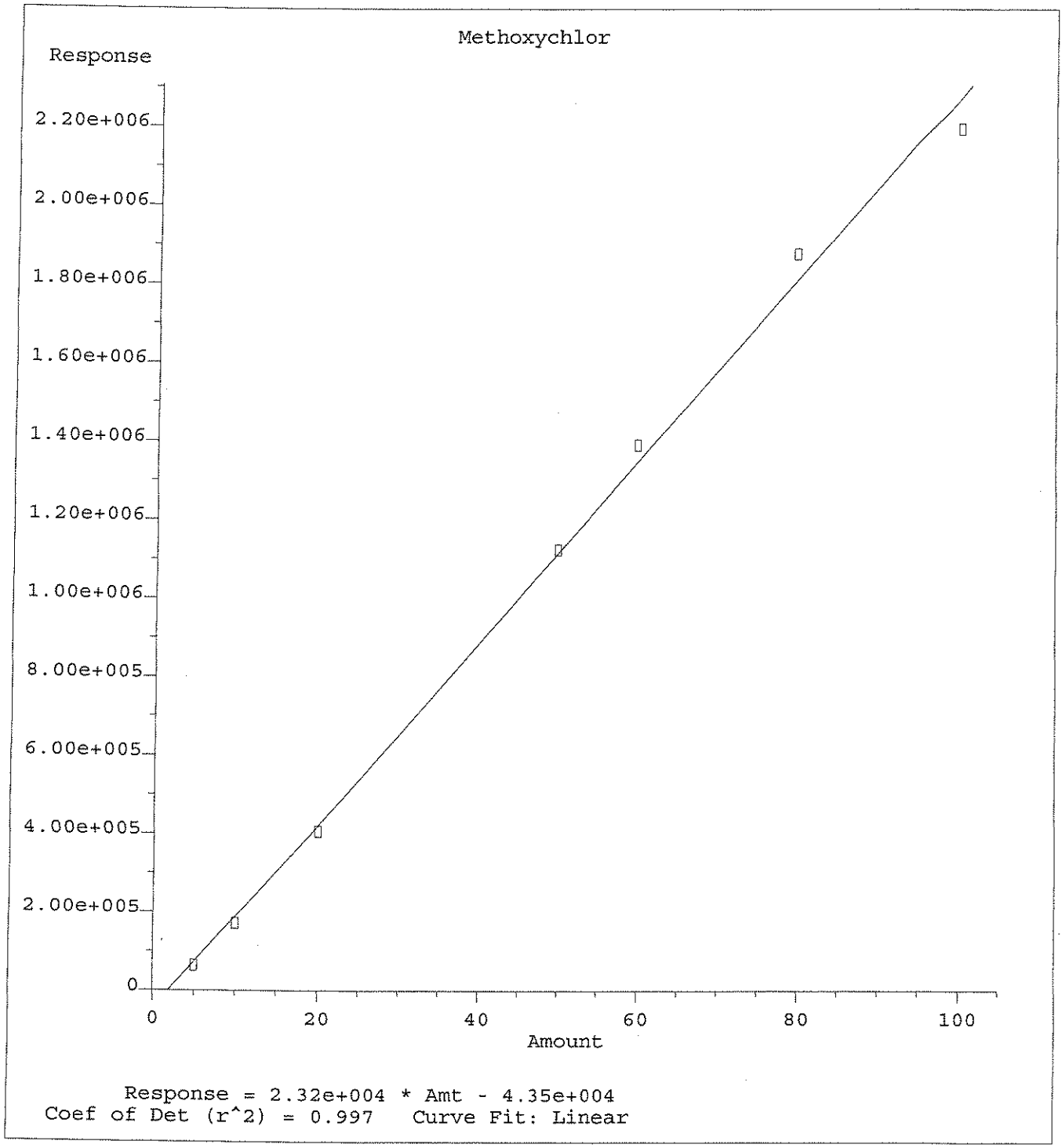

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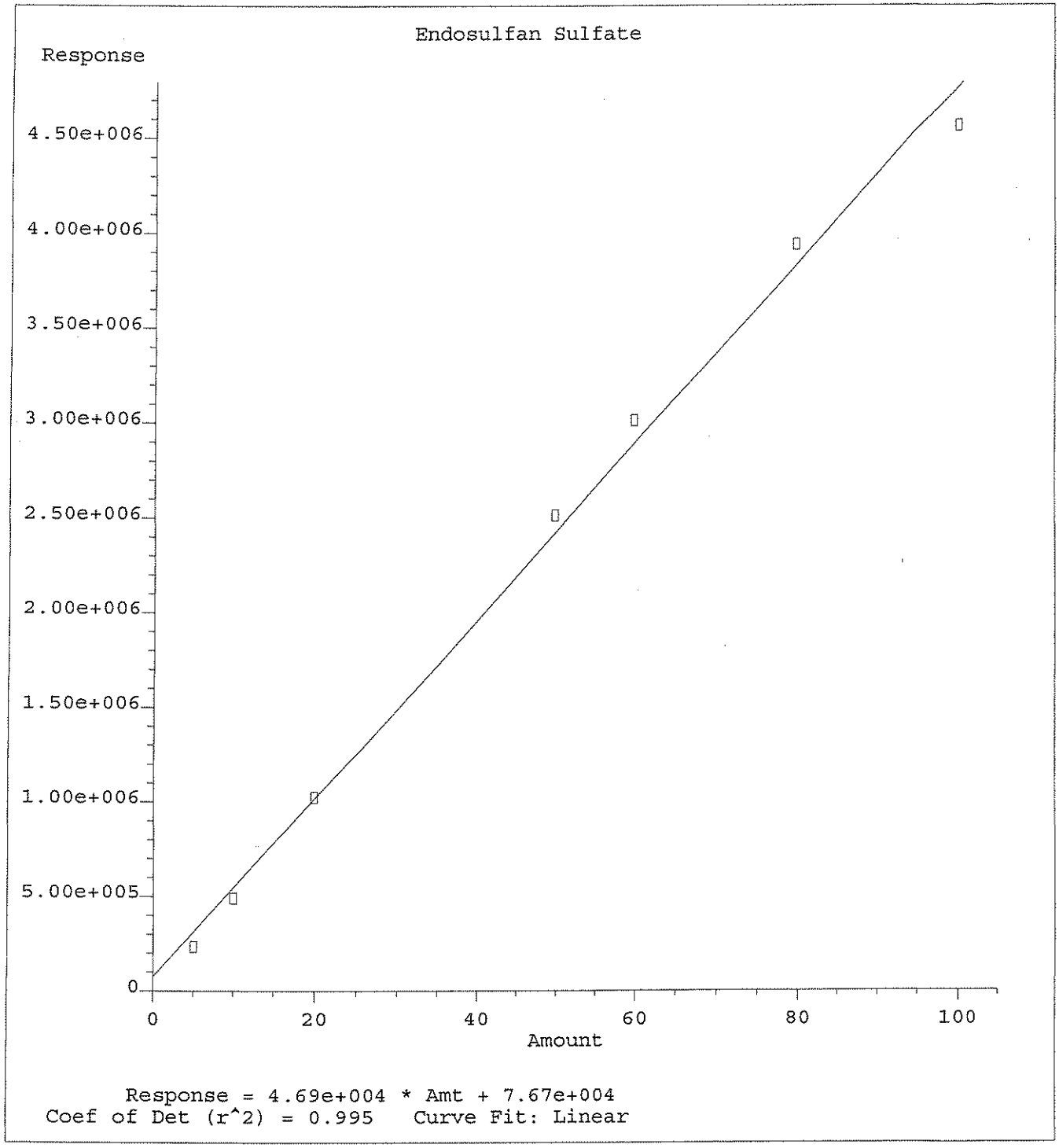

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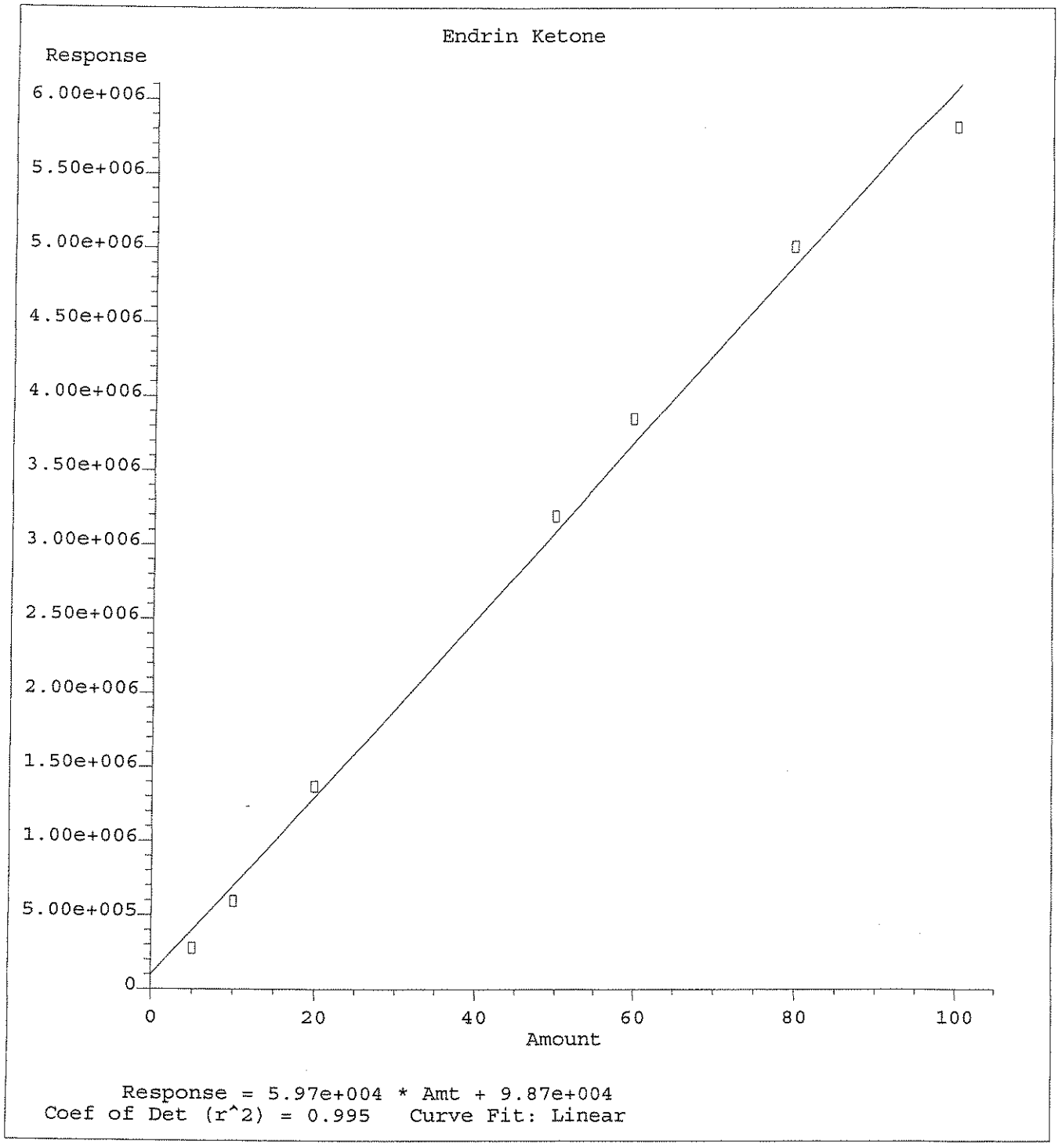

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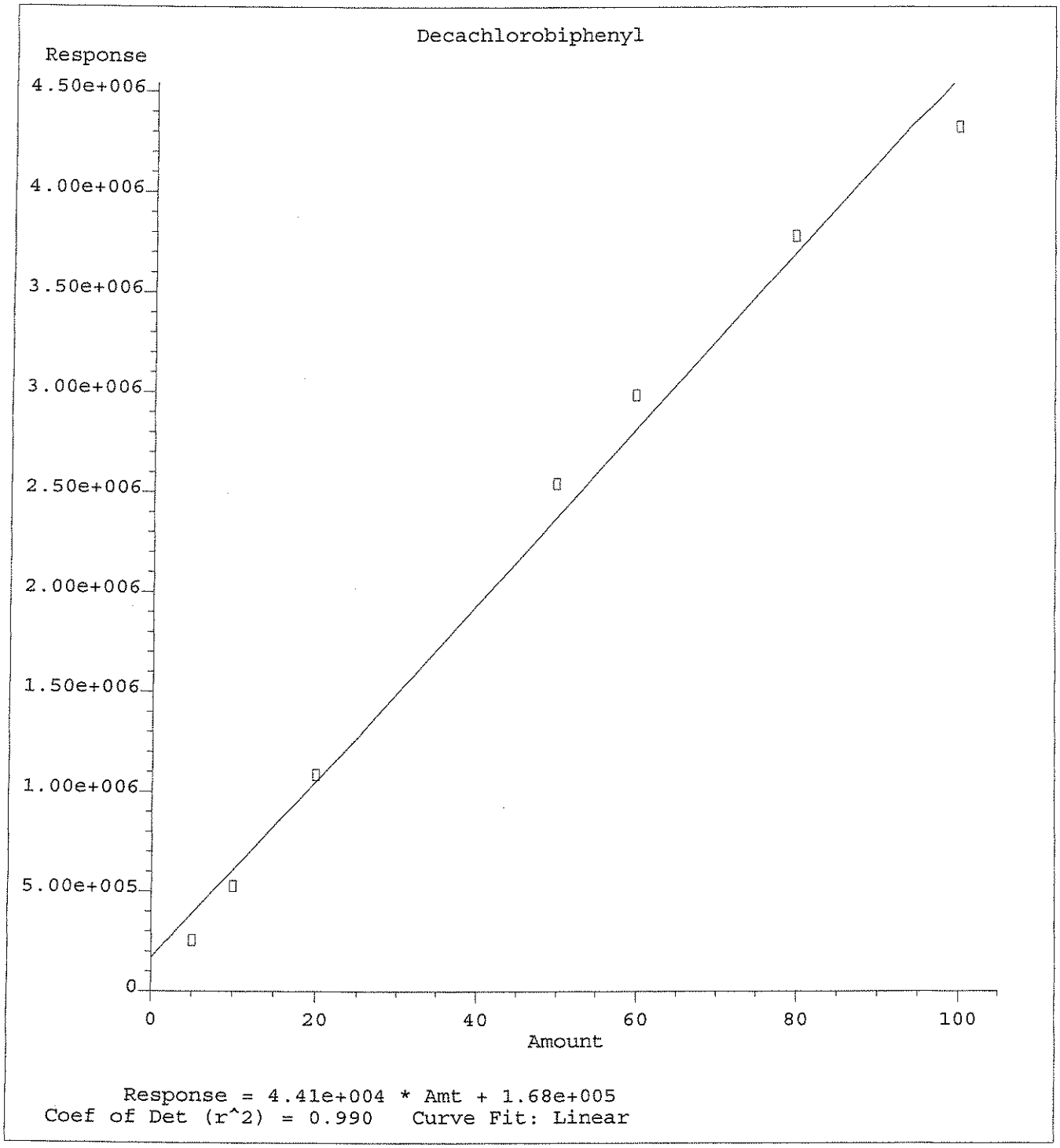

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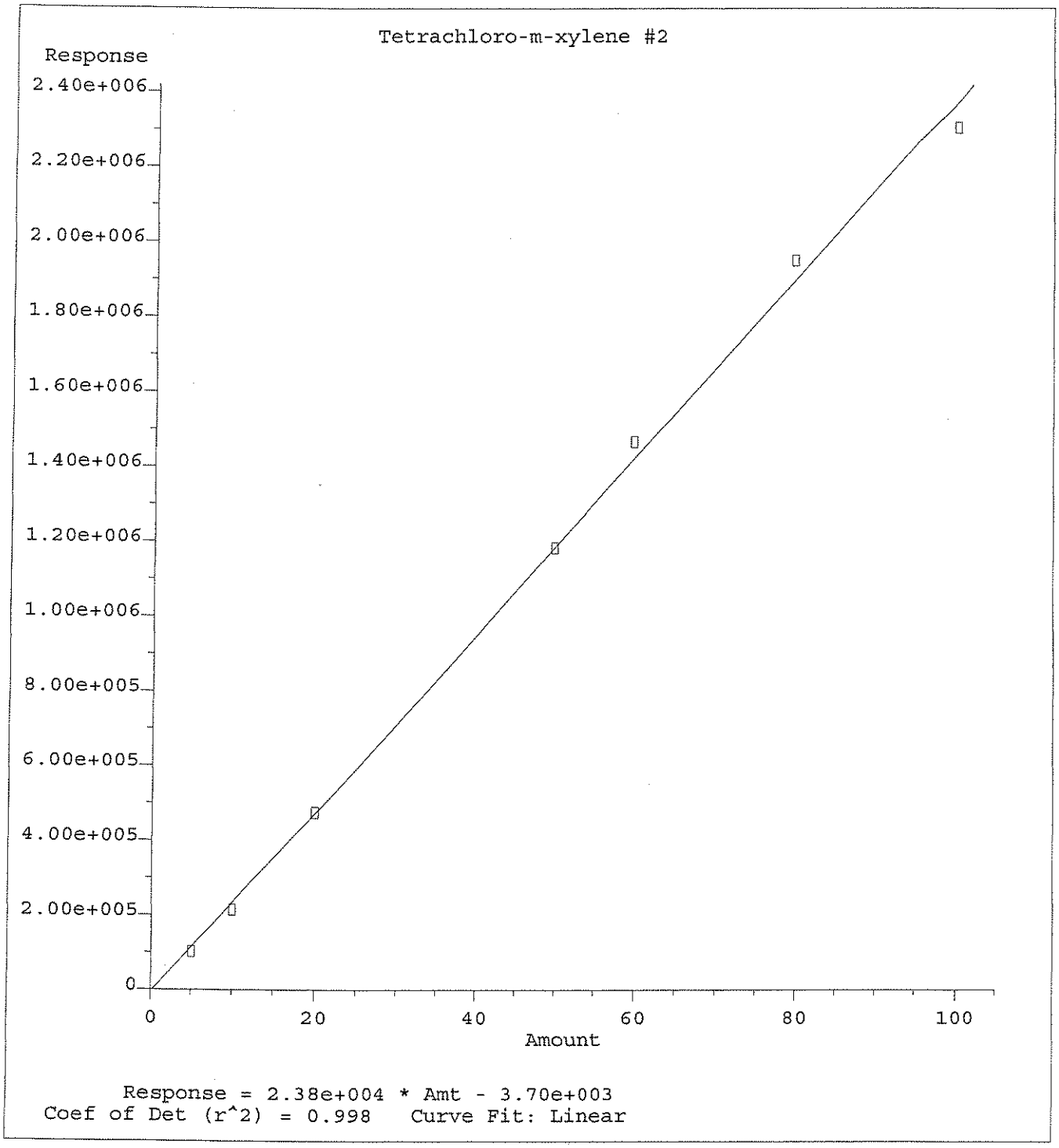

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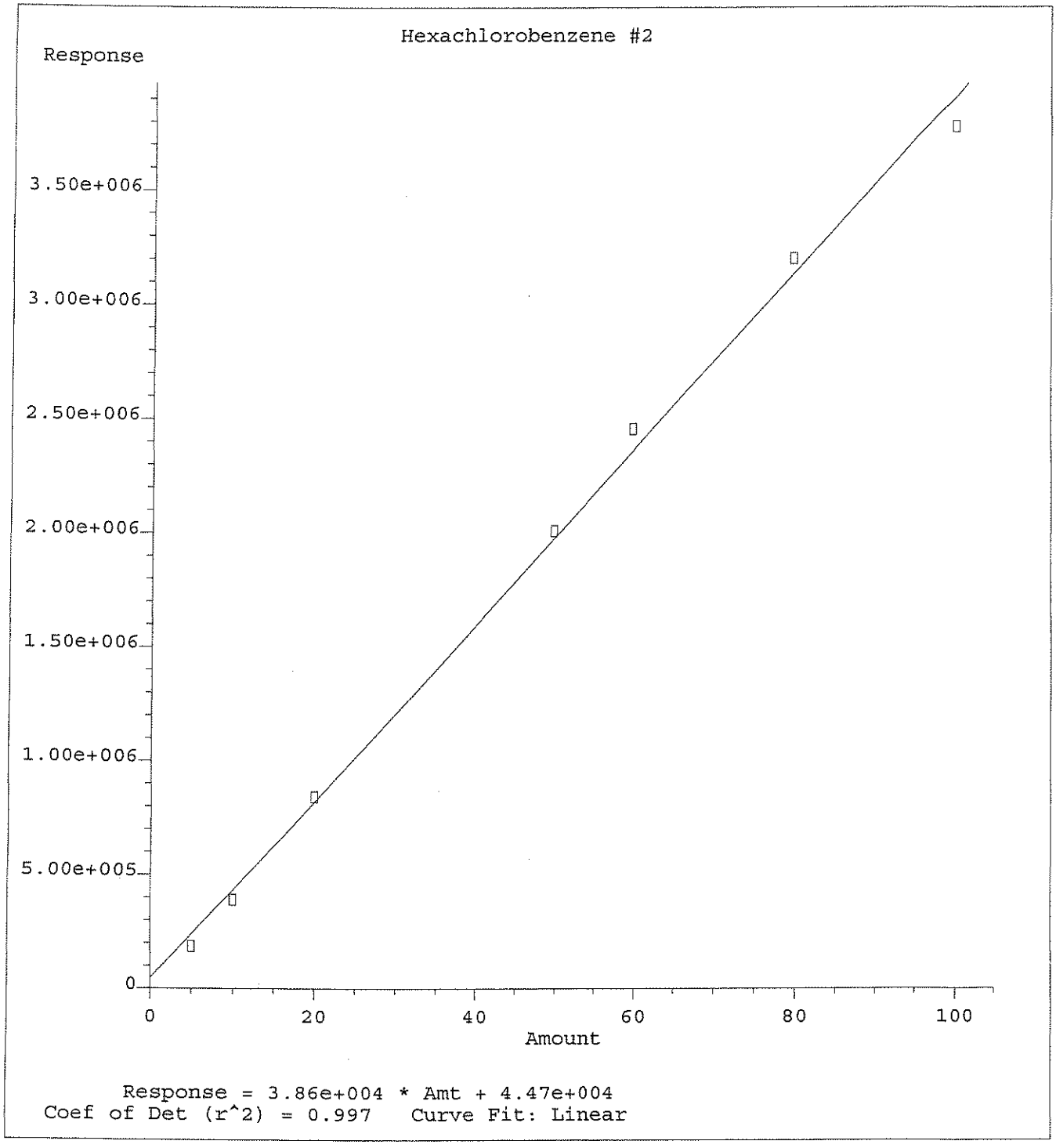

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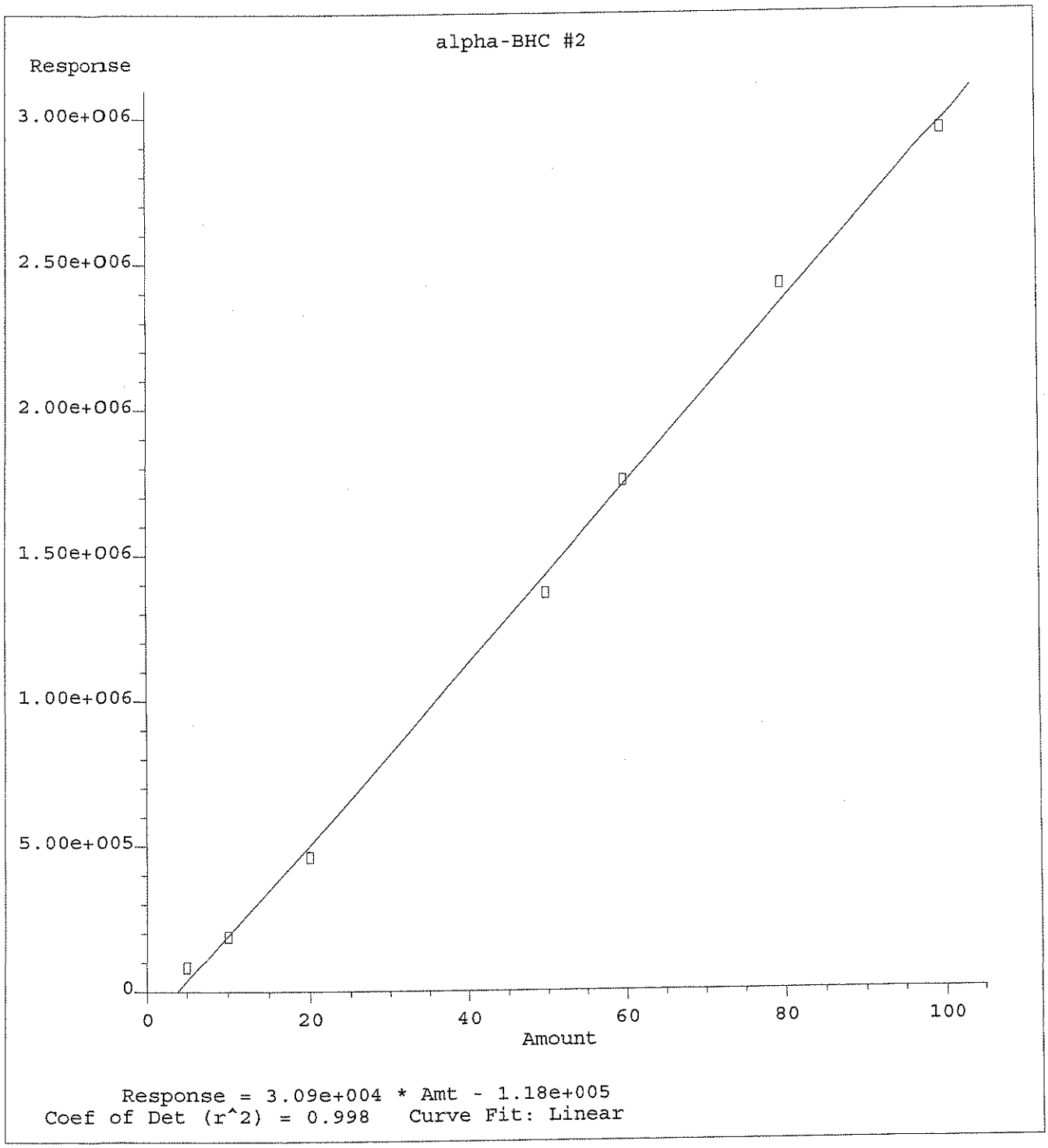

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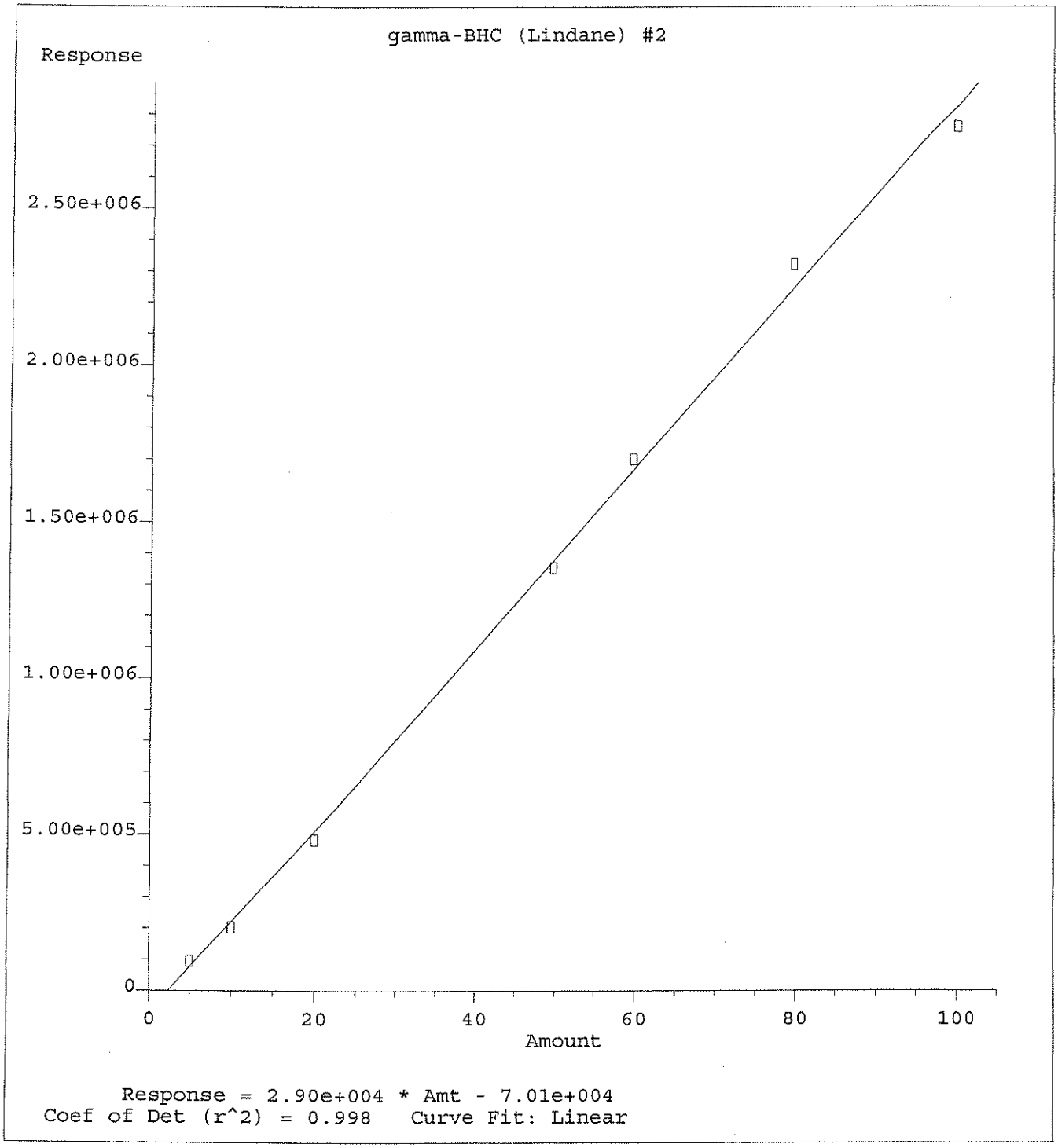

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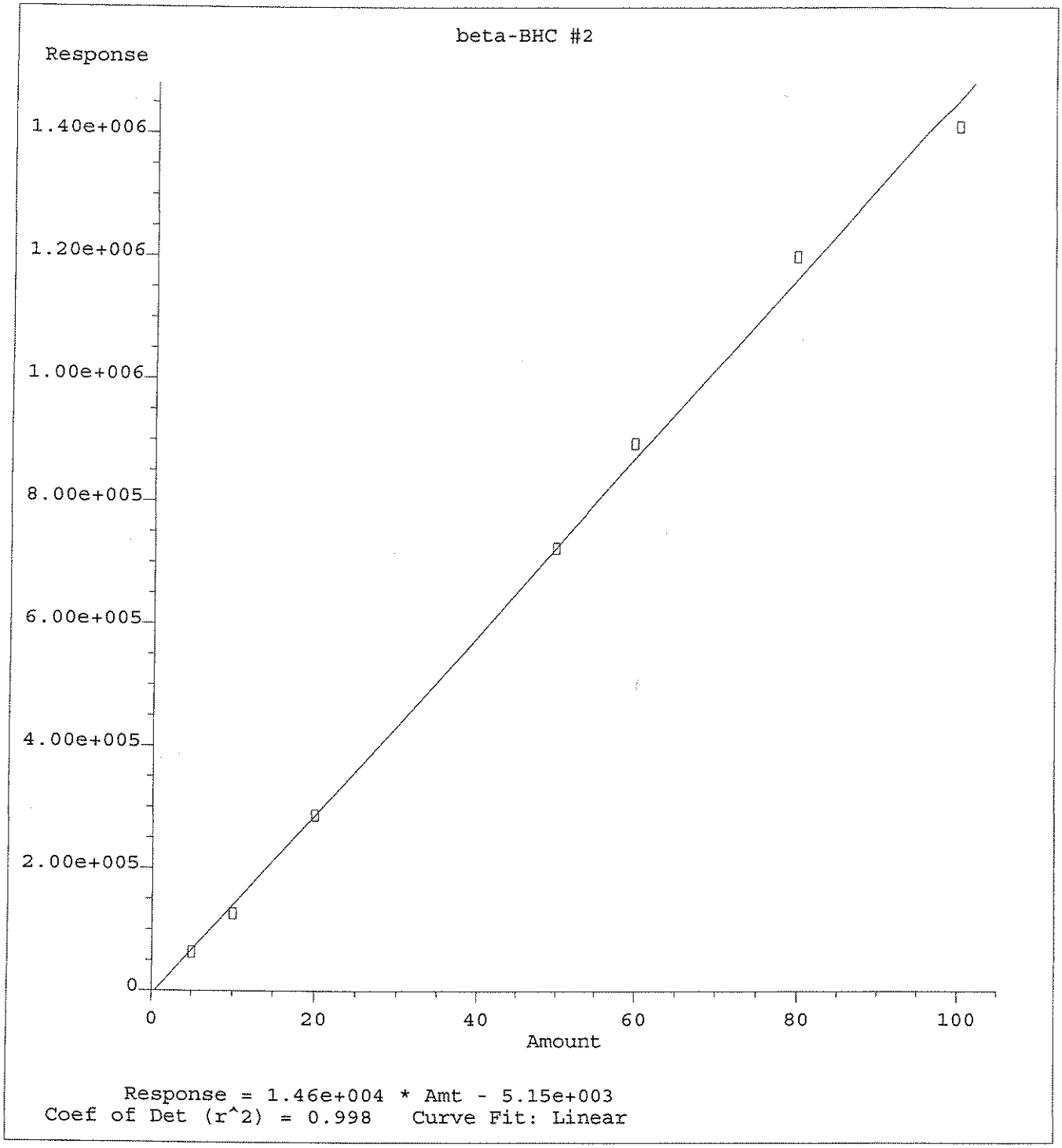

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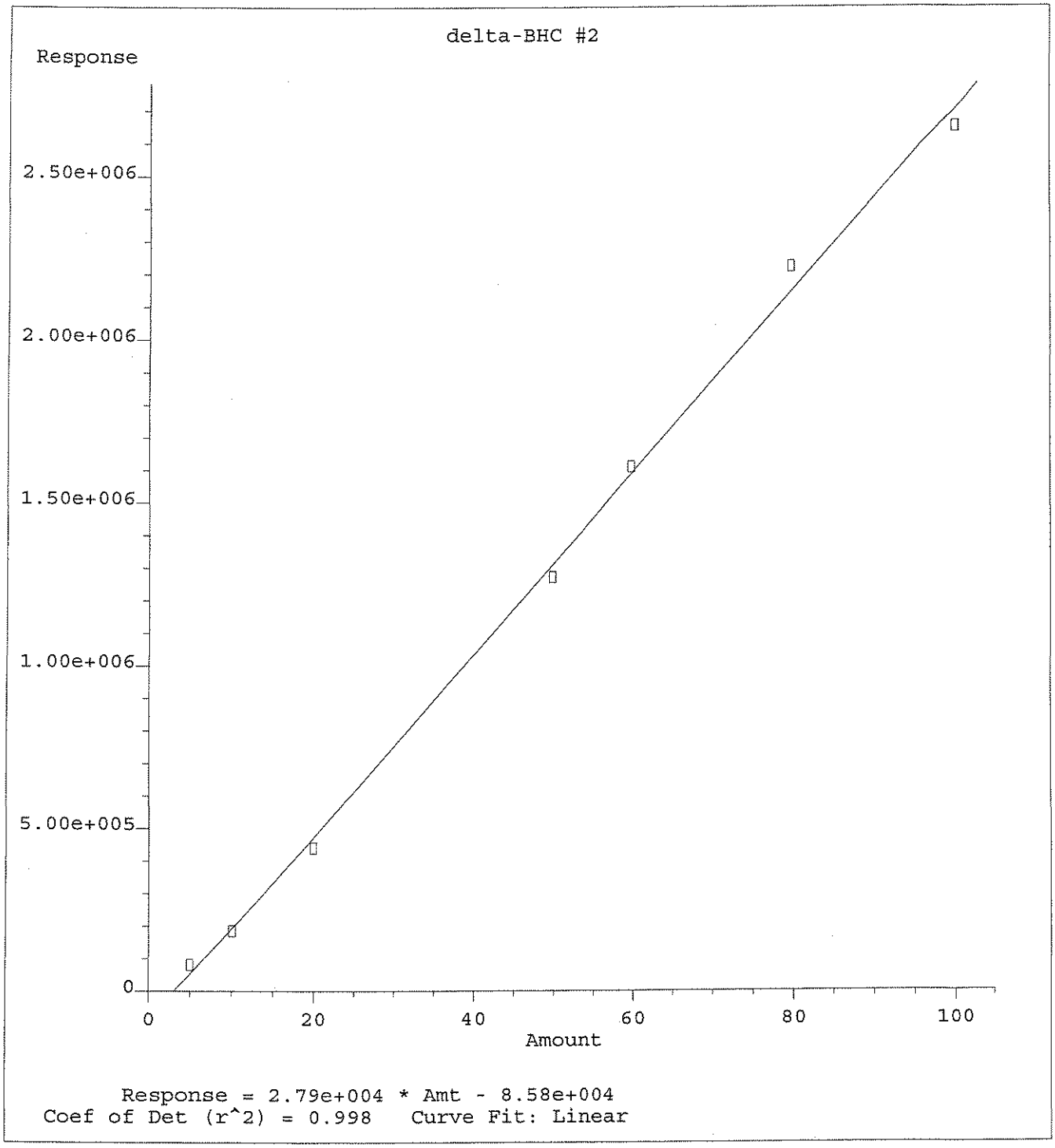

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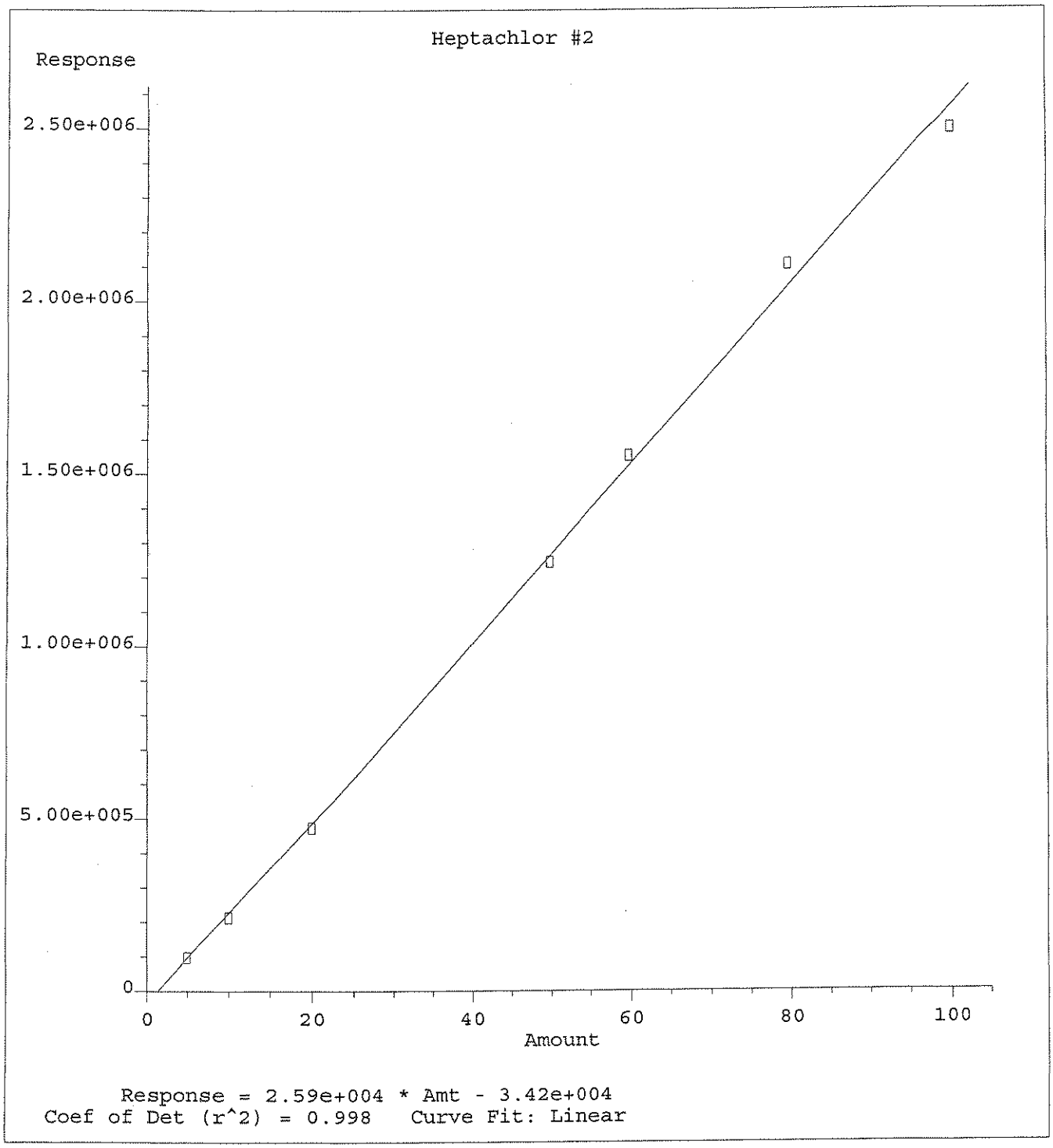

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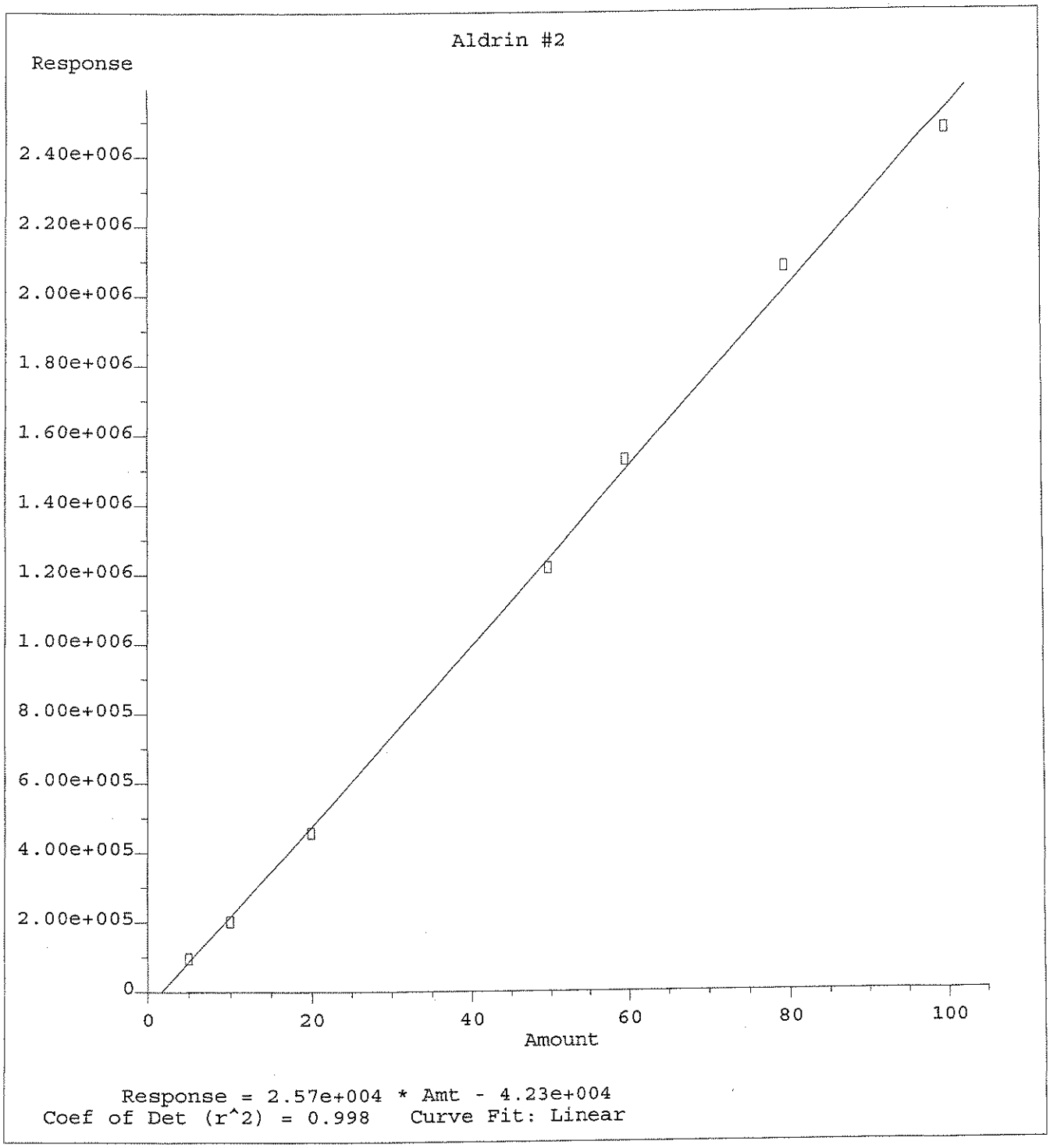

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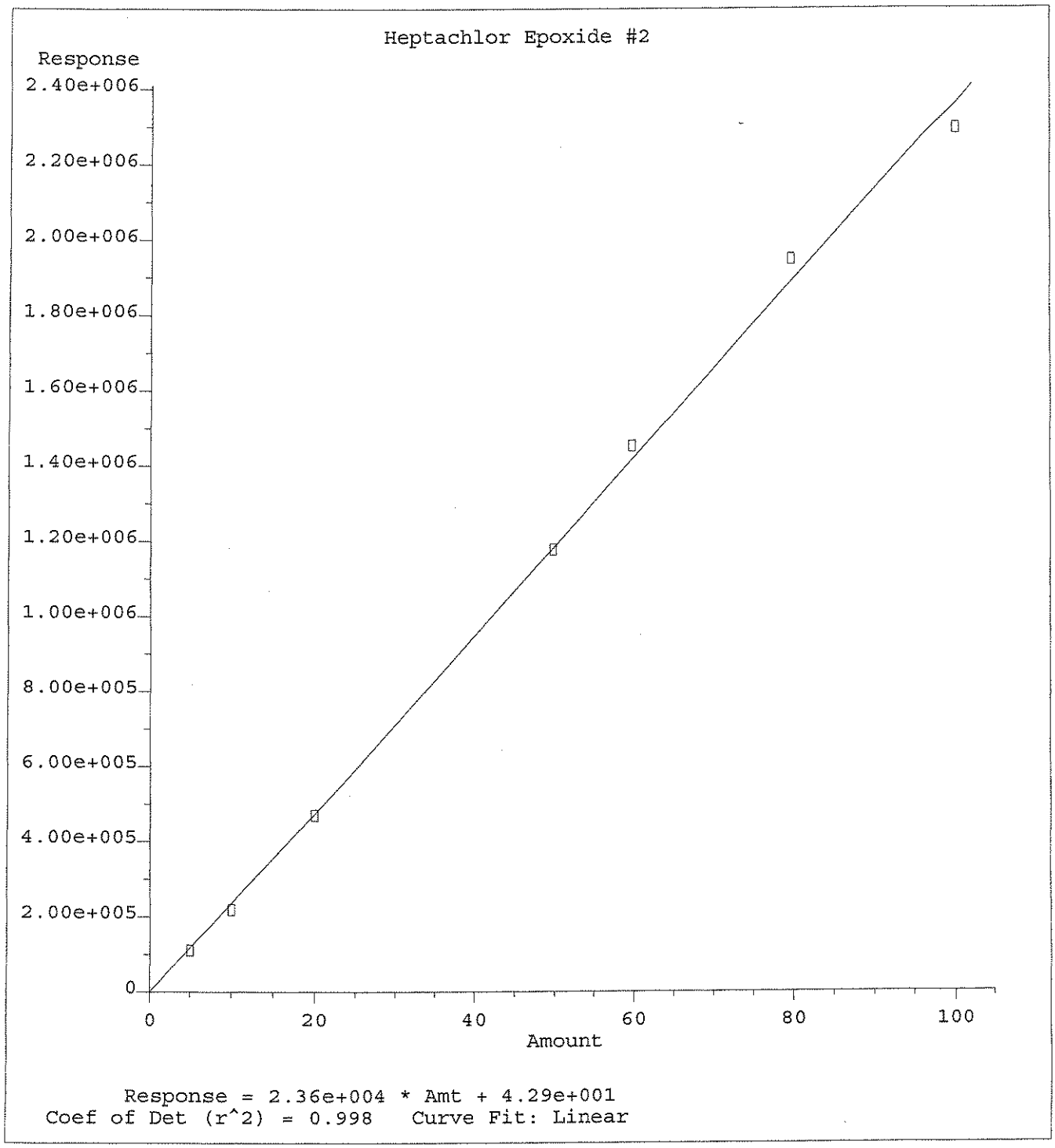

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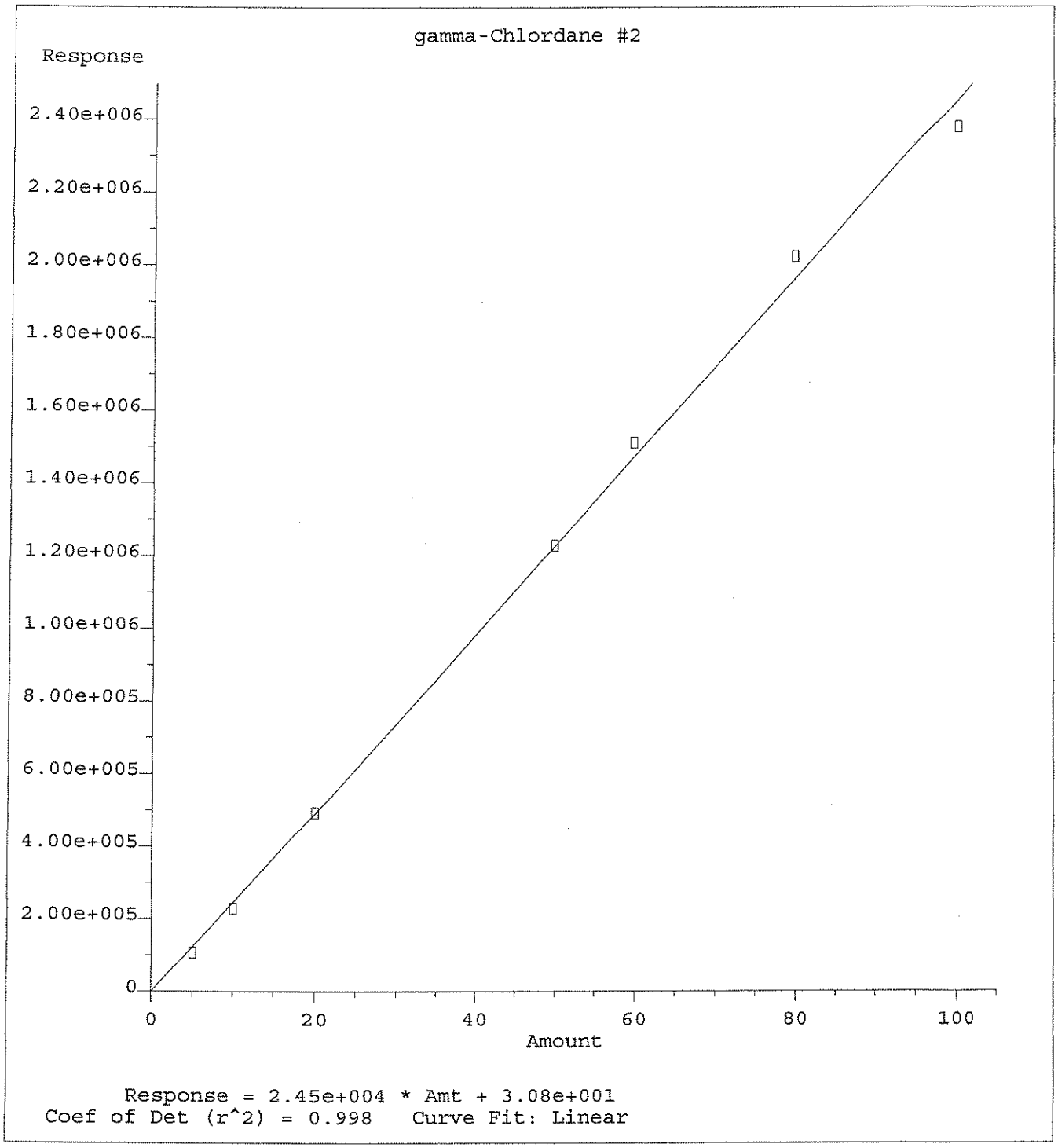

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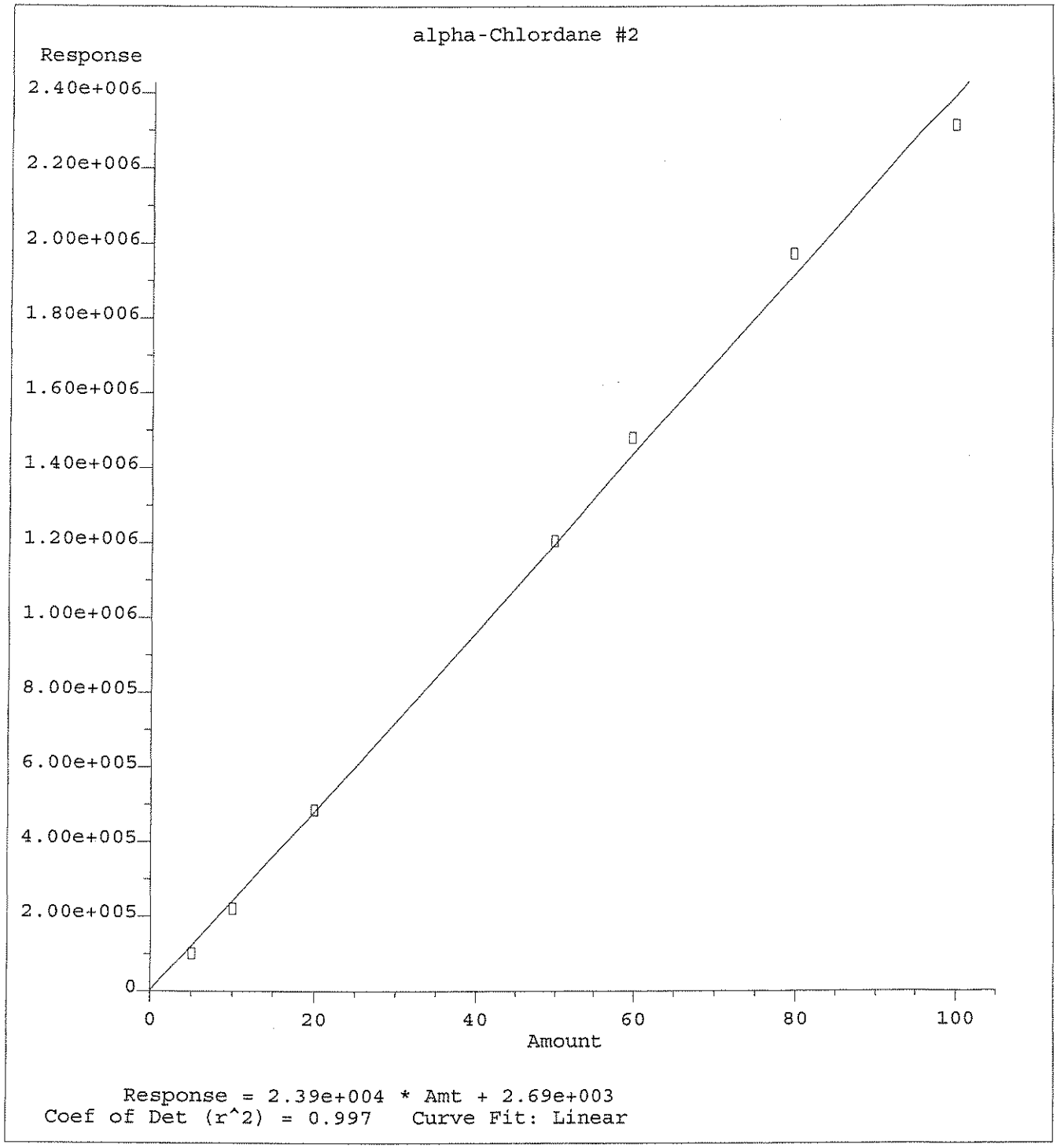

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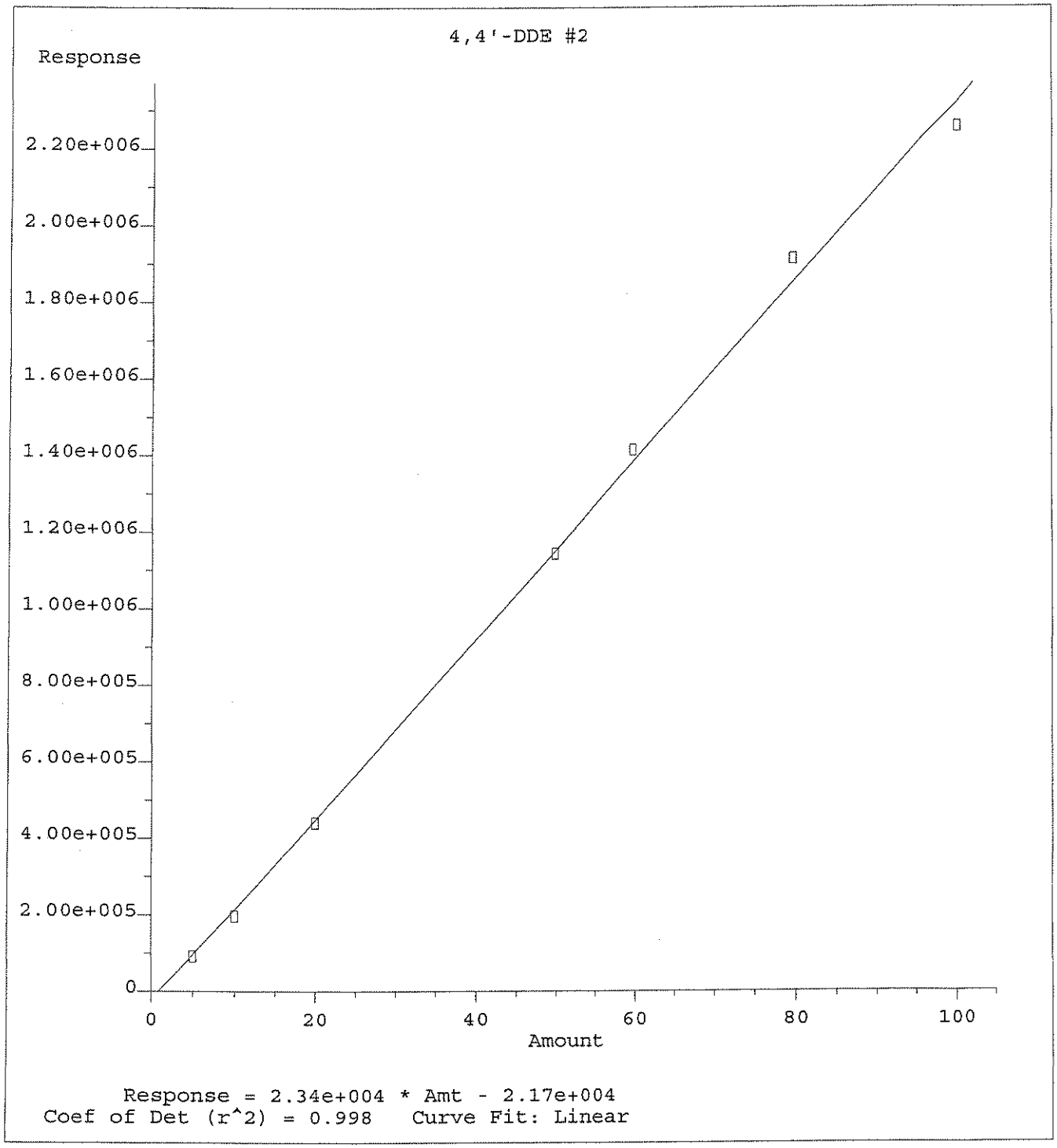
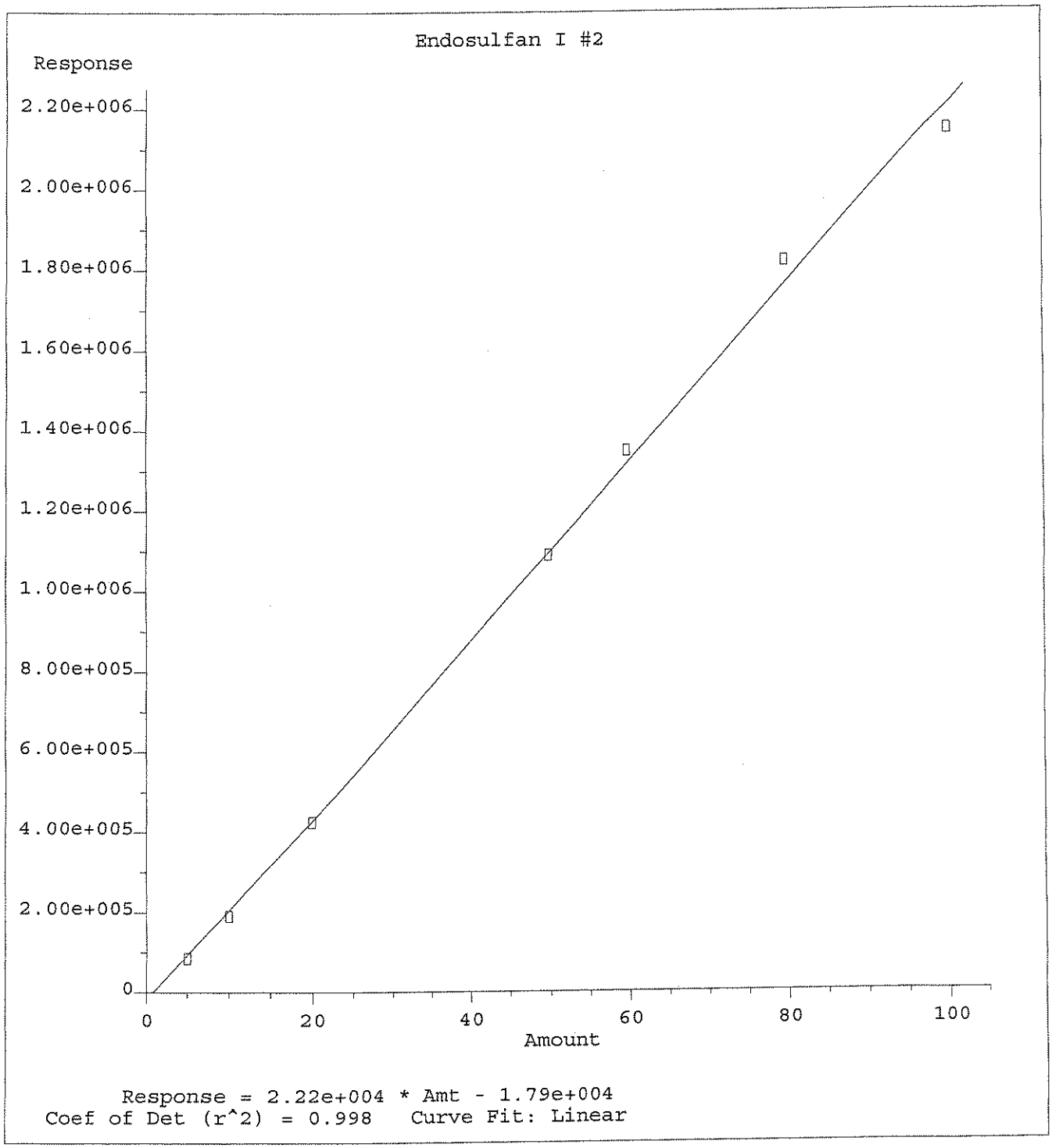
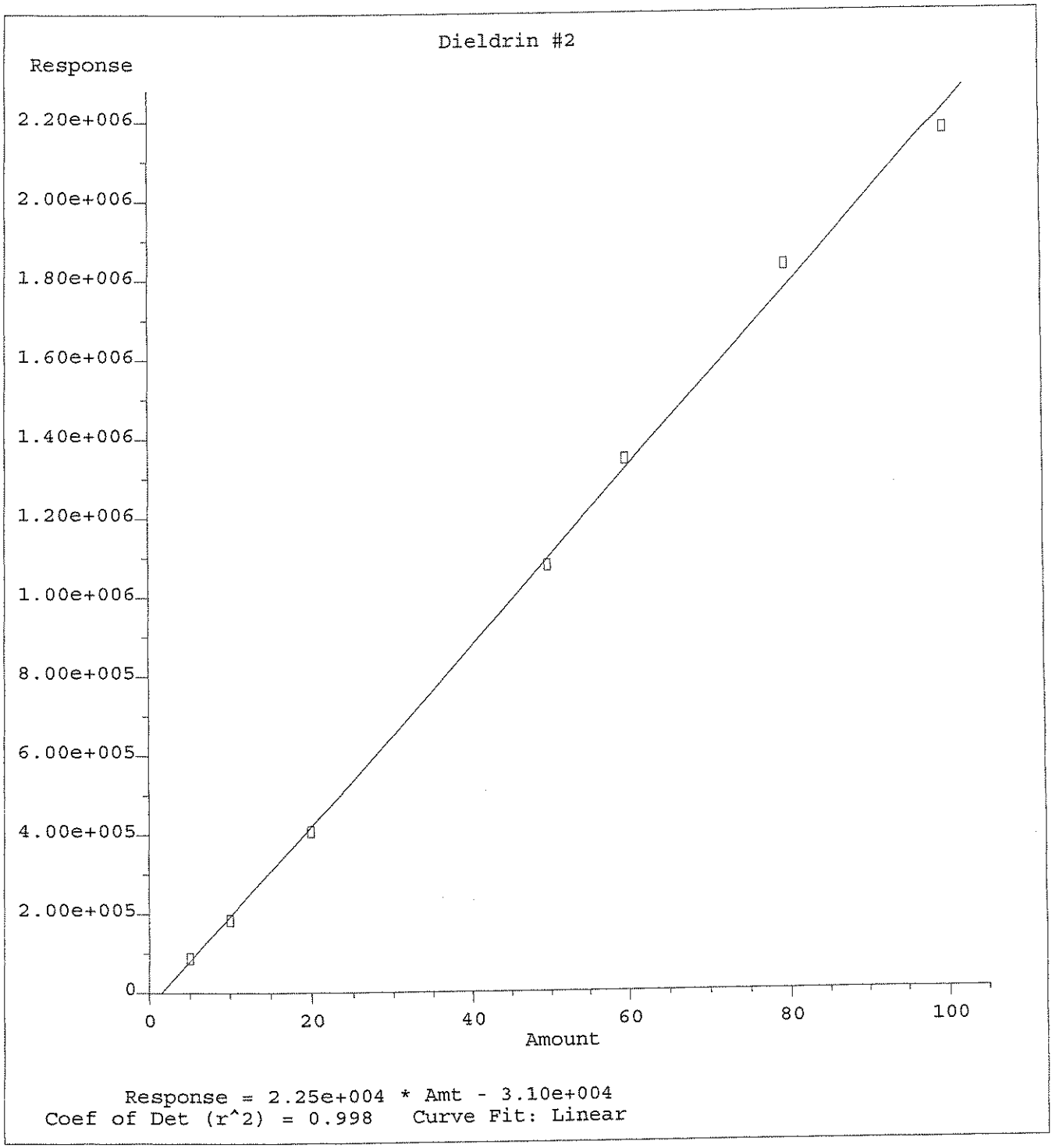


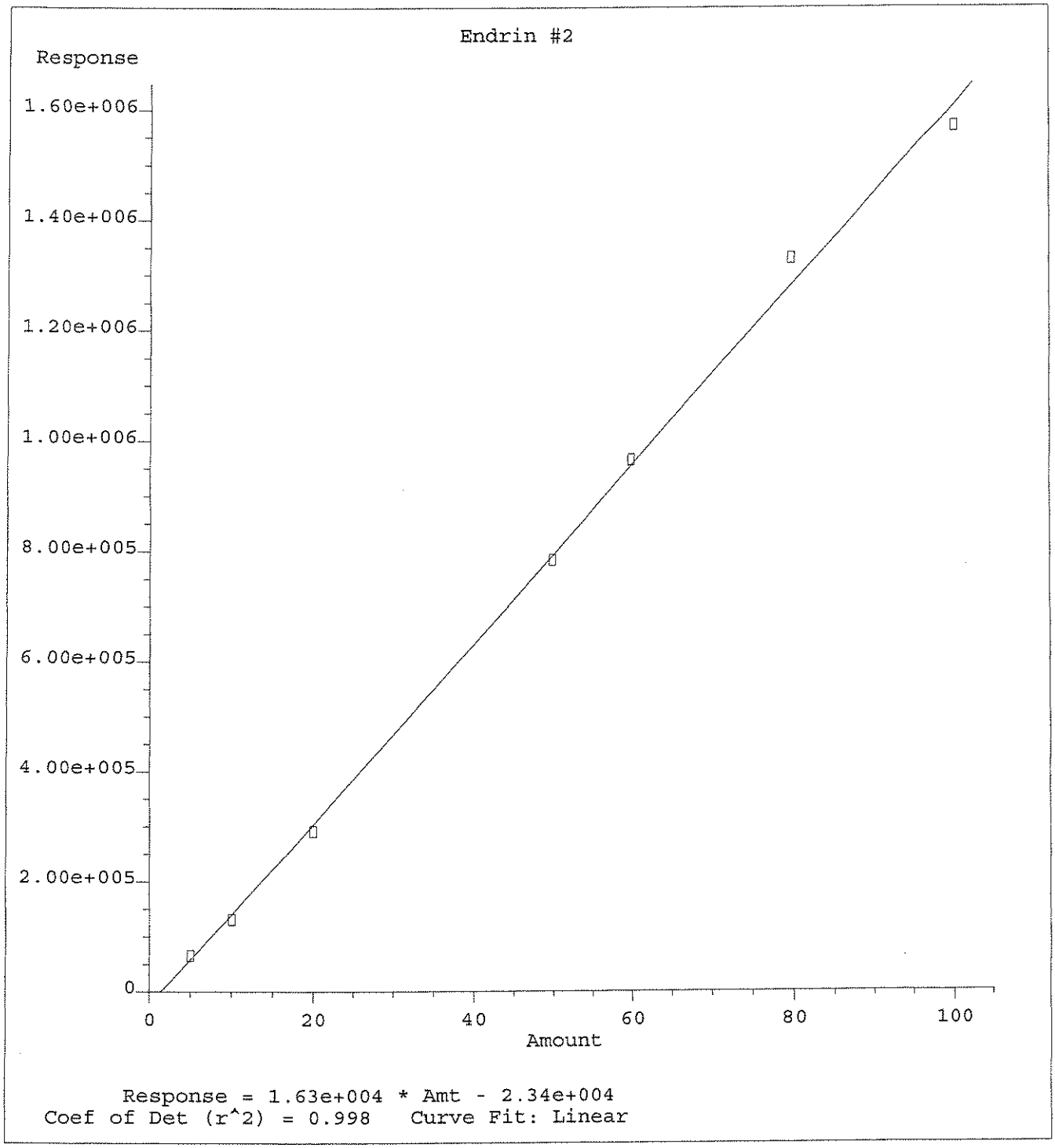
Method Name: Q:\SVOA\GC3_GE\METHODS\8081ED.M
Calibration Table Last Updated: Tue Jun 13 17:04:26 2006



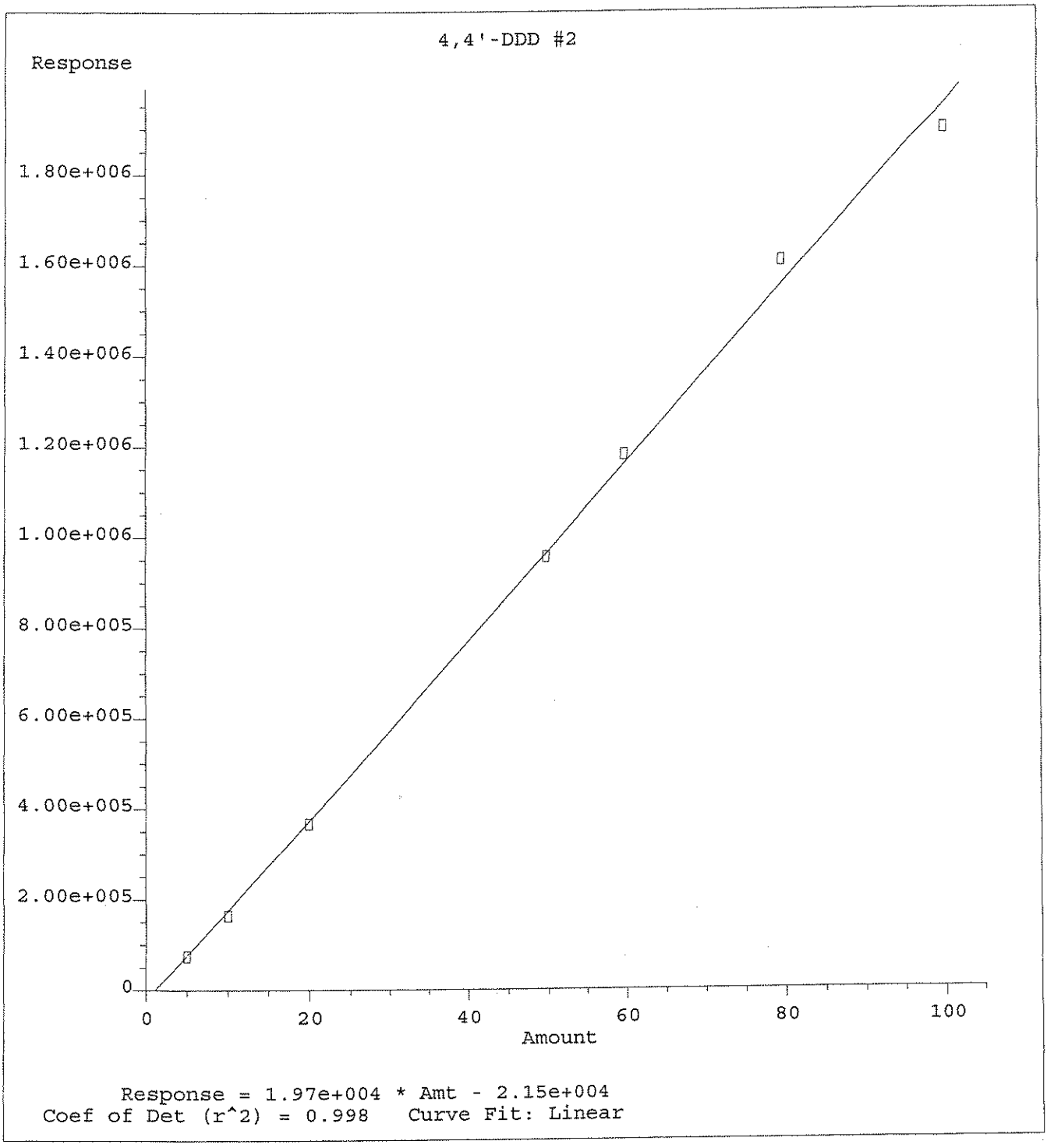
Method Name: Q:\SVOA\GC3_GE\METHODS\8081ED.M
Calibration Table Last Updated: Tue Jun 13 17:04:26 2006



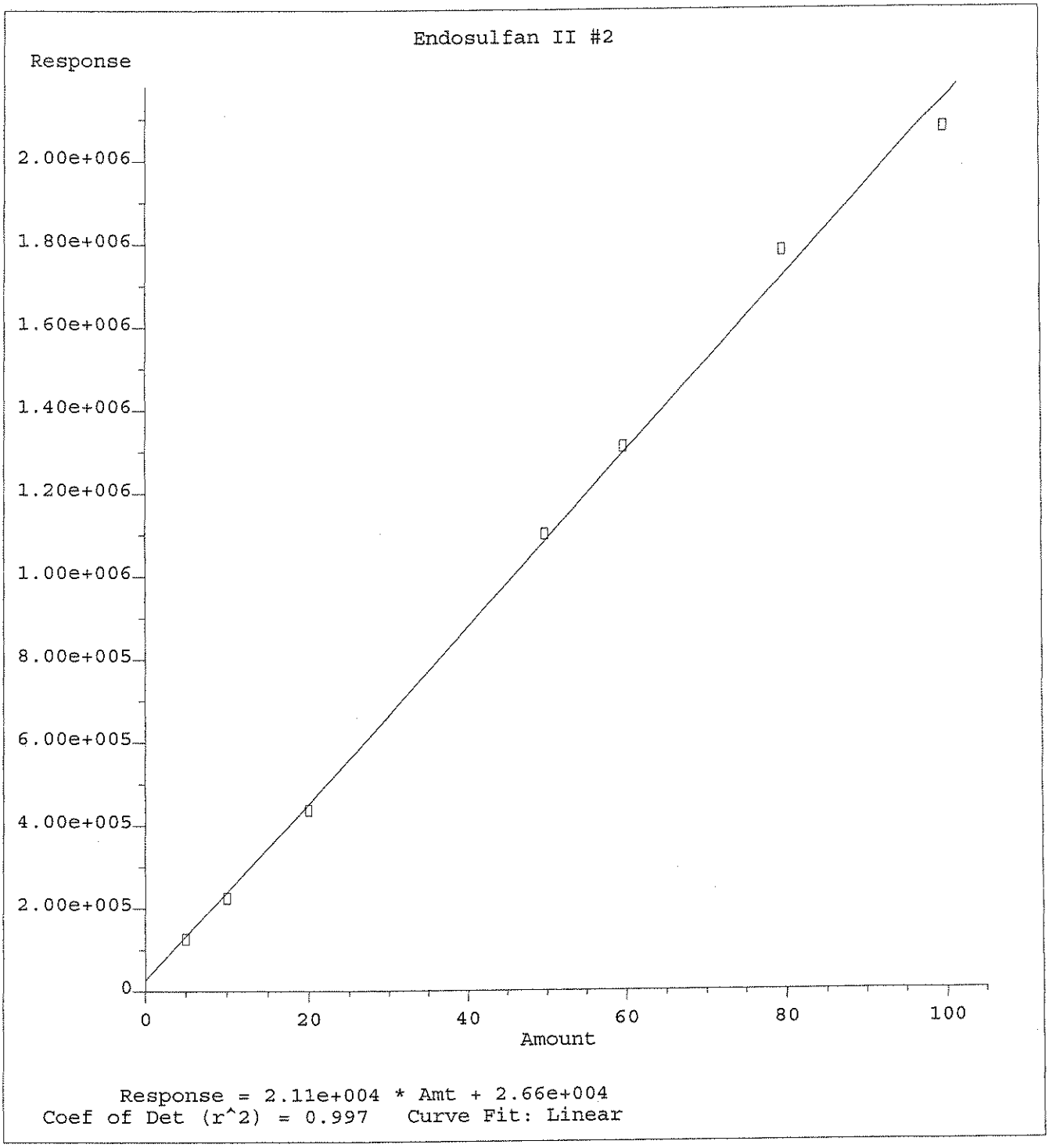
Method Name: Q:\SVOA\GC3_GE\METHODS\8081ED.M
Calibration Table Last Updated: Tue Jun 13 17:04:26 2006



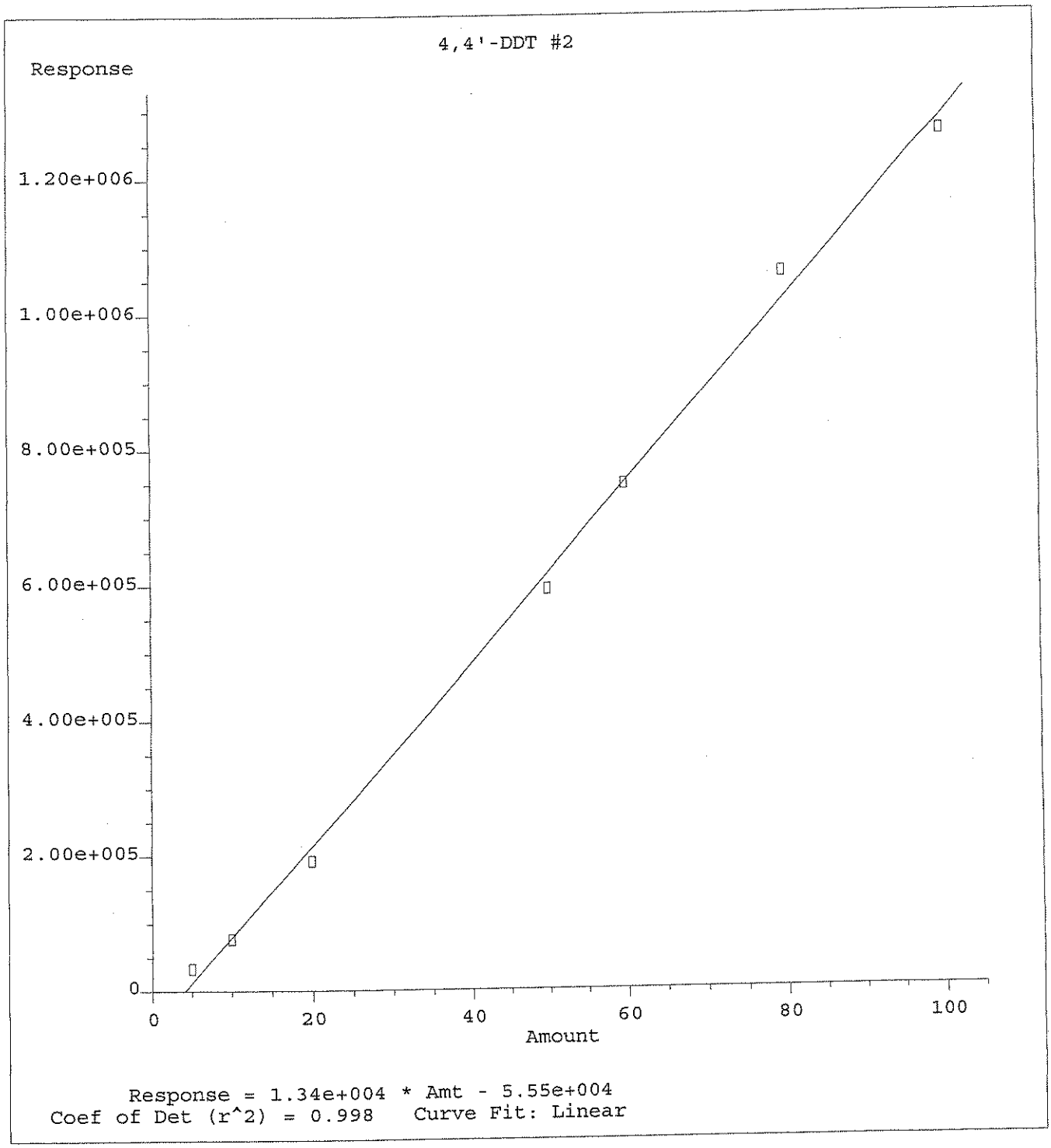
Method Name: Q:\SVOA\GC3_GE\METHODS\8081ED.M
Calibration Table Last Updated: Tue Jun 13 17:04:26 2006



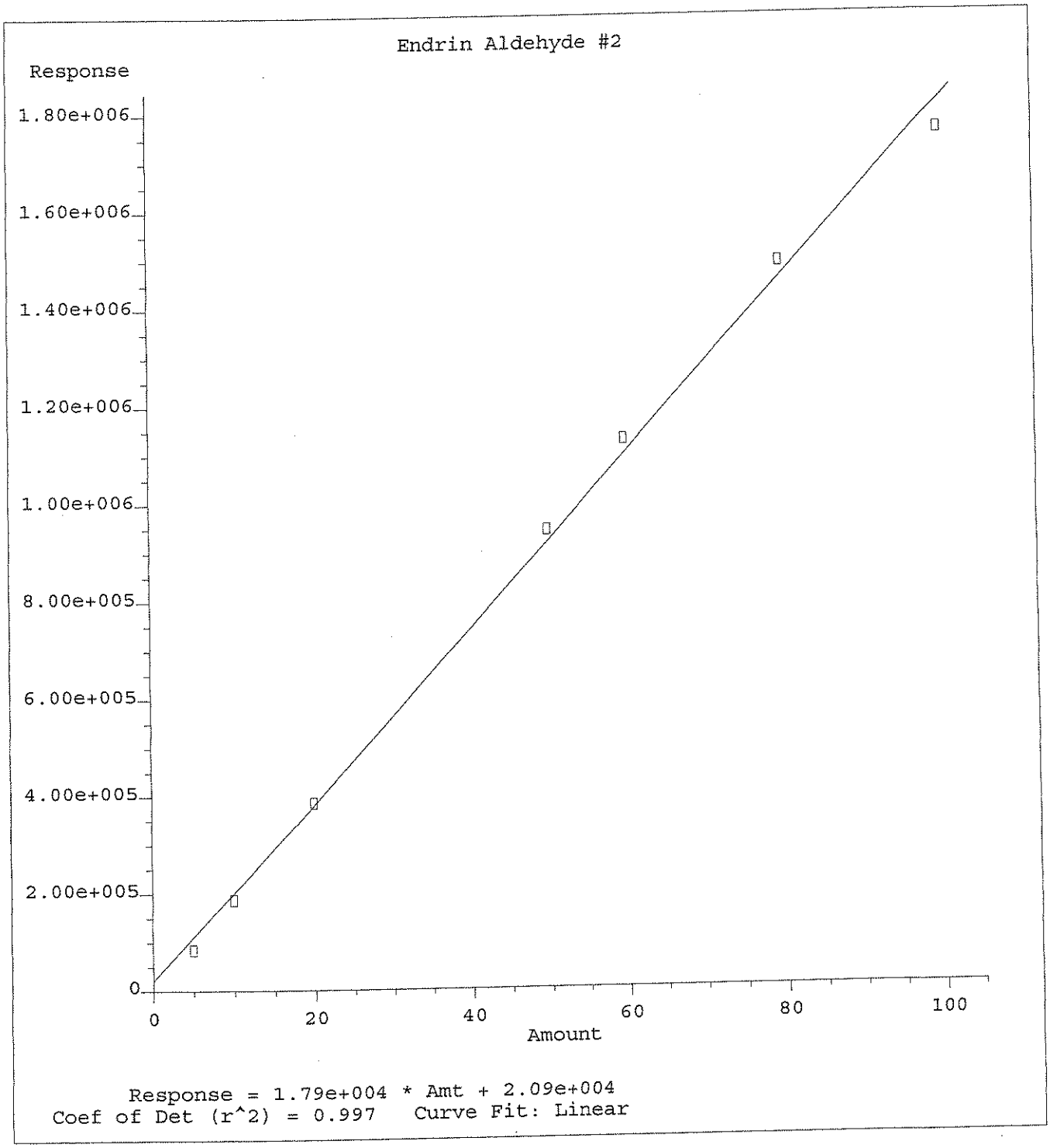
Method Name: Q:\SVOA\GC3_GE\METHODS\8081ED.M
Calibration Table Last Updated: Tue Jun 13 17:04:26 2006



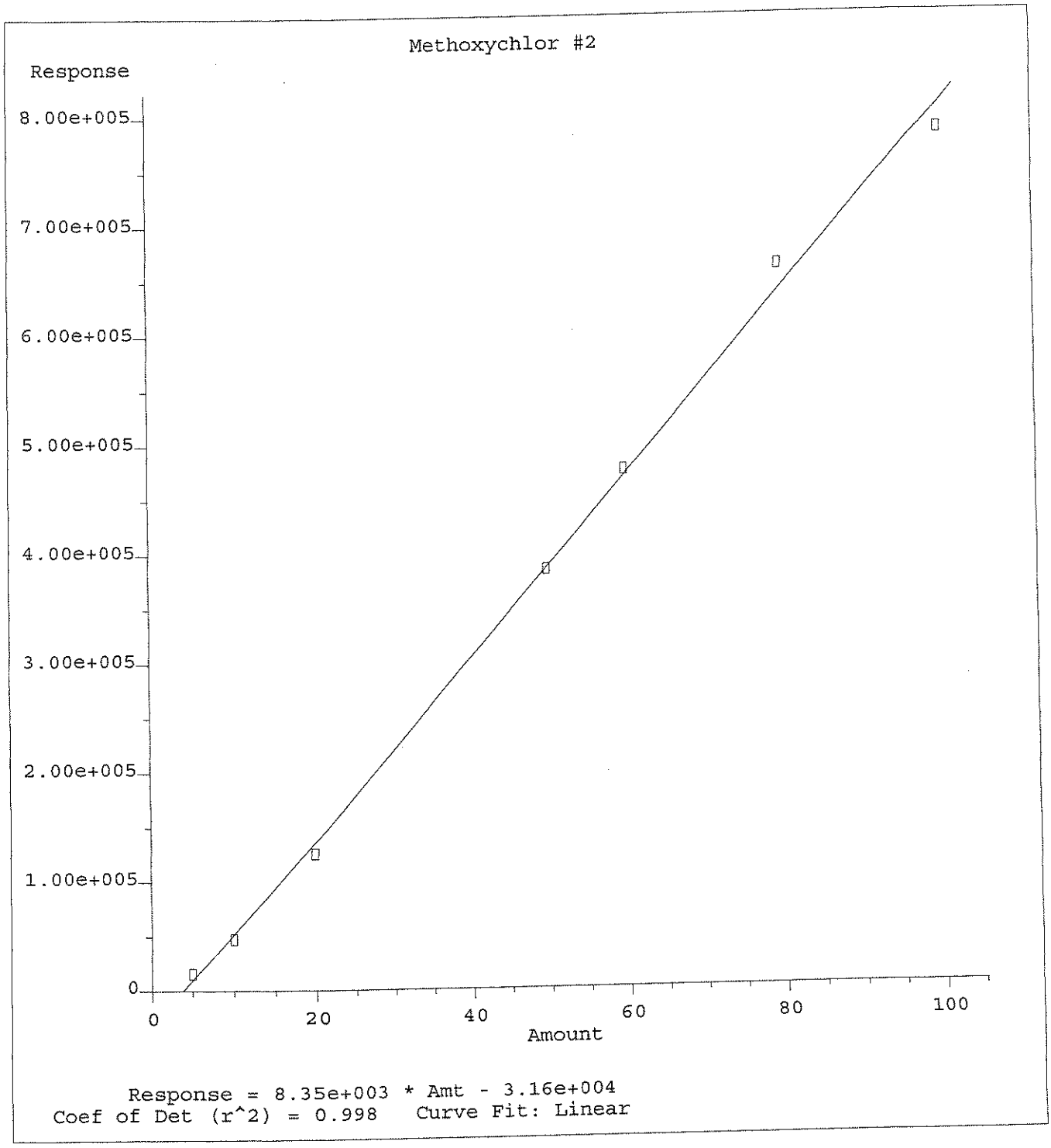
Method Name: Q:\SVOA\GC3_GE\METHODS\8081ED.M
Calibration Table Last Updated: Tue Jun 13 17:04:26 2006



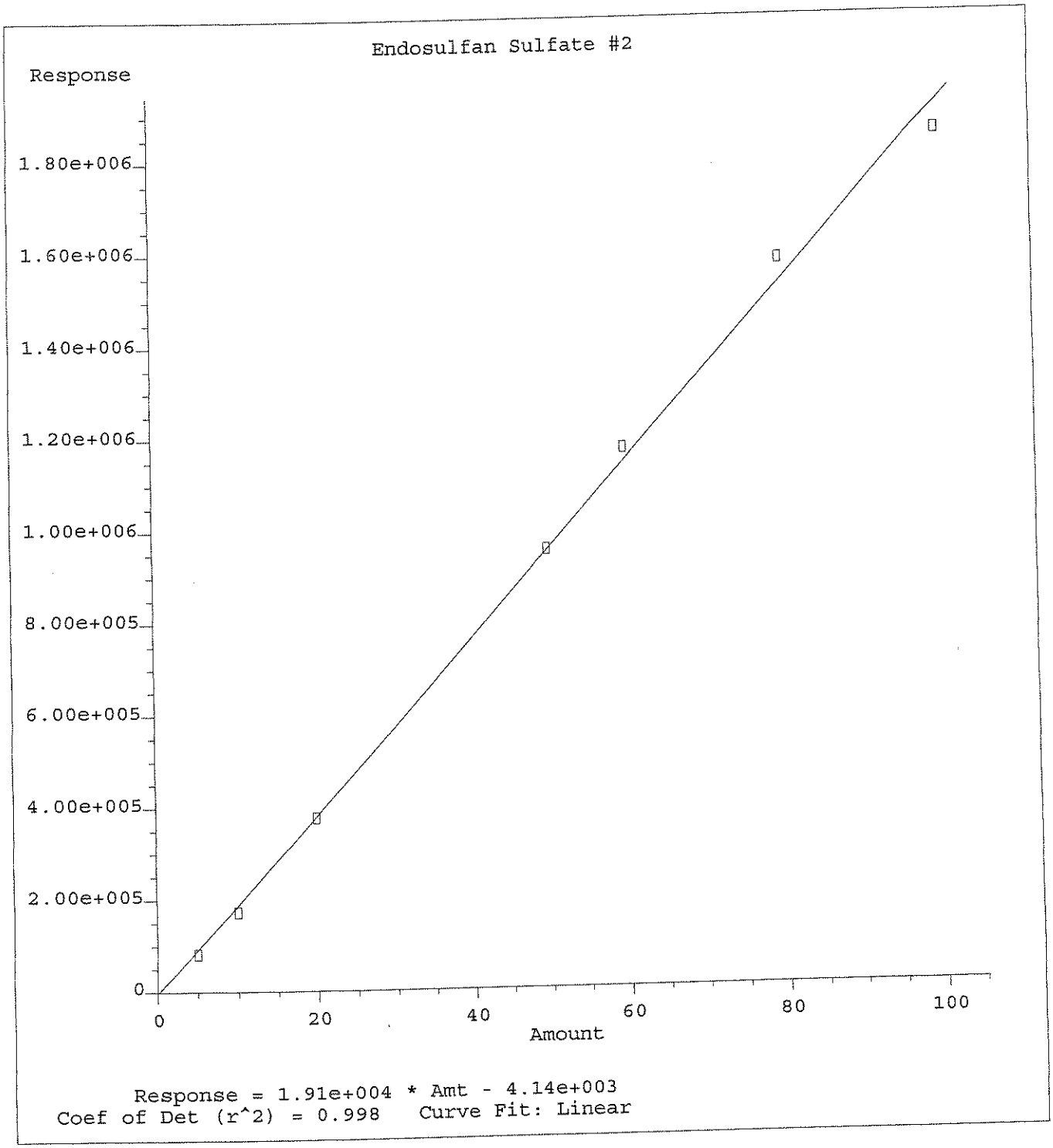
Method Name: Q:\SVOA\GC3_GE\METHODS\8081ED.M
Calibration Table Last Updated: Tue Jun 13 17:04:26 2006



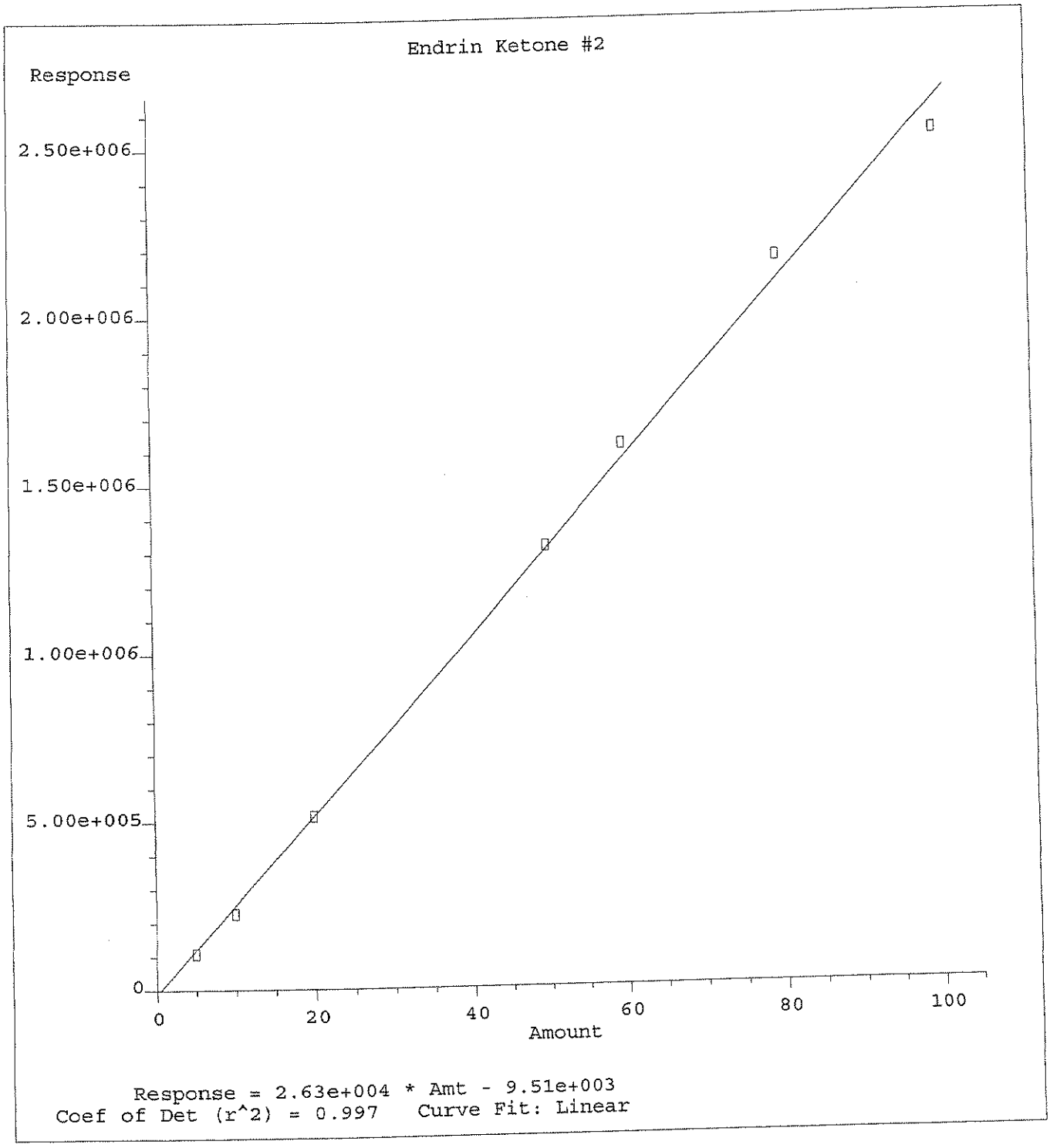
Method Name: Q:\SVOA\GC3_GE\METHODS\8081ED.M
Calibration Table Last Updated: Tue Jun 13 17:04:26 2006



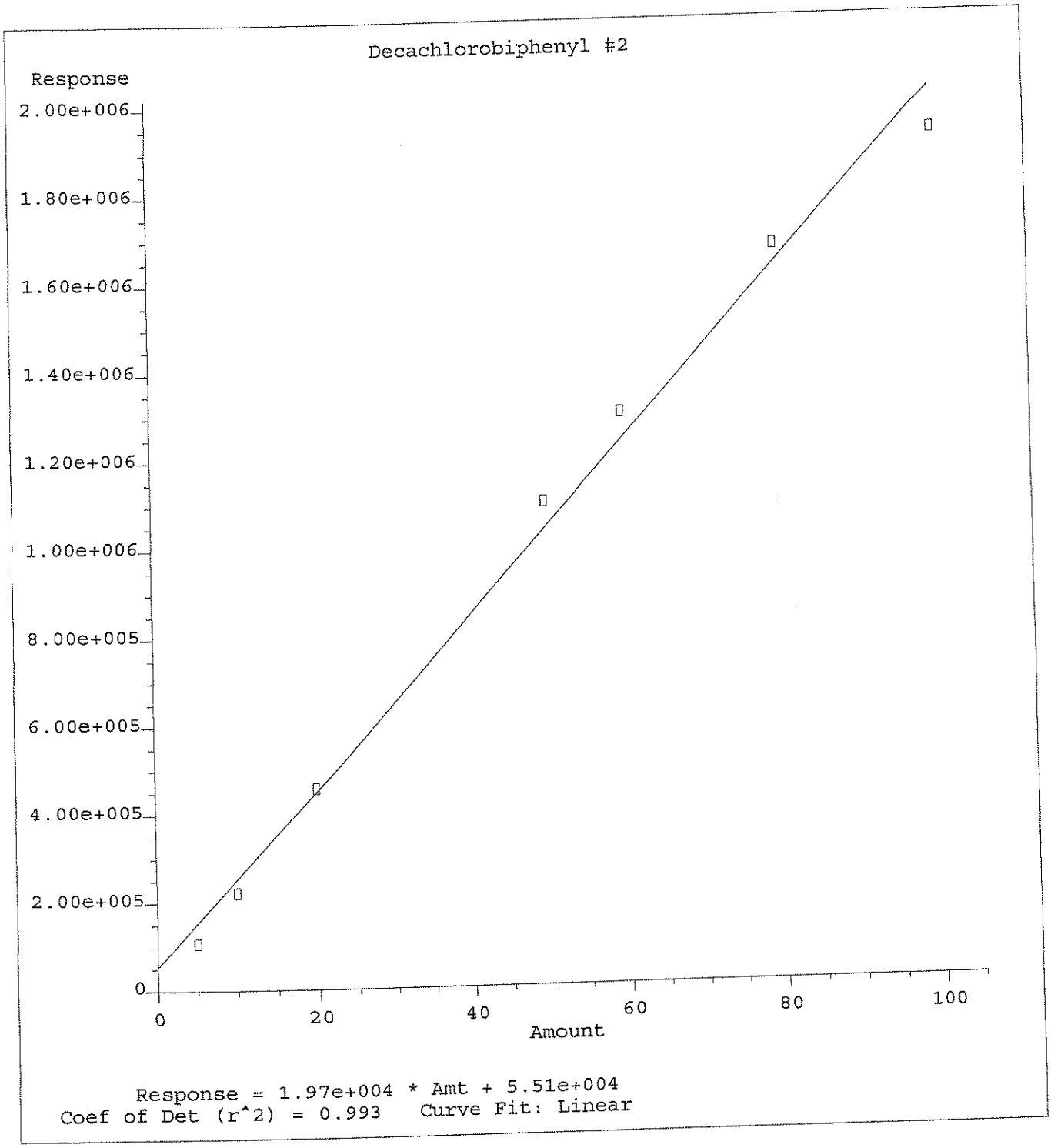
Method Name: Q:\SVOA\GC3_GE\METHODS\8081ED.M
Calibration Table Last Updated: Tue Jun 13 17:04:26 2006



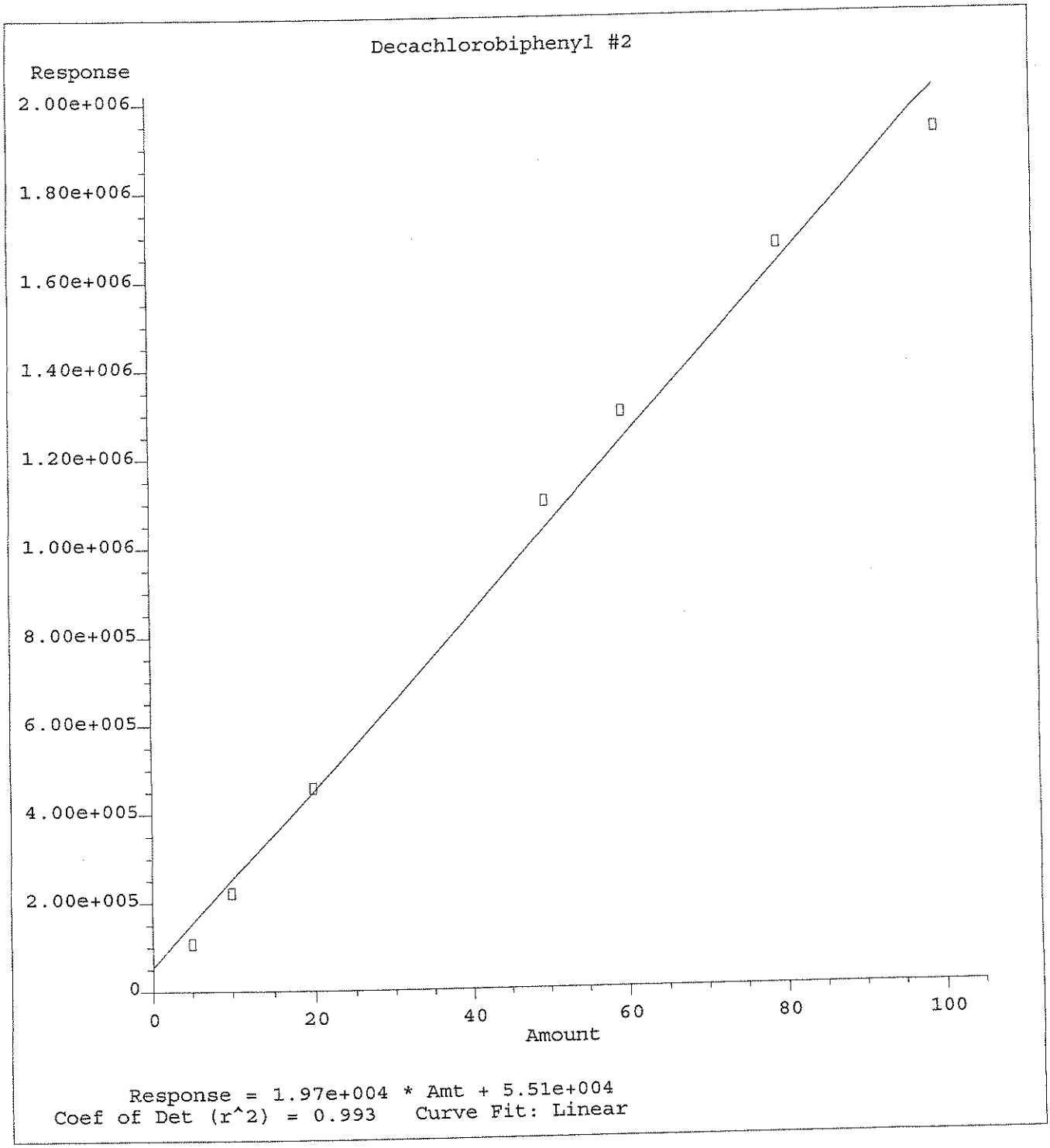
Method Name: Q:\SVOA\GC3_GE\METHODS\8081ED.M
Calibration Table Last Updated: Tue Jun 13 17:04:26 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081ED.M
Calibration Table Last Updated: Tue Jun 13 17:04:26 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081ED.M
Calibration Table Last Updated: Tue Jun 13 17:04:26 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081ED.M
Calibration Table Last Updated: Tue Jun 13 17:04:26 2006

ESS LABORATORY
GC 3 Front/Rear RUN LOG

UMN RTX CLPesticide

TCH ATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
12/06	36	GE06136A-36	Pest 50 CC	8081ED	not Run (not needed)	SR
	4	4	Chlor 250 ppb		GF13062 5:29 PM	
	5	5	0606078-17			
	6	6	17		5x	
	7	7	01			
	8	8	02			
	9	9	03			
	10	10	06			
	11	11	08			
	12	12	08		5x	
	13	13	10		5x	
	14	14	12			
	15	15	16			
	16	16	04		20x	
	17	17	05			
	18	18	05MS			
	19	19	05MSD		20x	
	20	20	Hexane			
	4	4	Chlor 250 ppb		GF13062 01:26AM	
	36	36	Pest 50 ppb		GF13061 DDT/meth Low 01:54AM	
16	36	GE06136A-36	Pest 50 ppb	8081ED	GF13064	SR

OL NUMBER 60.0012-0601A

PAGE_____

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06136A\035F0301.D Vial: 35
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06136A\035F0301.D\035R0301.D
Acq On : 13 Jun 06 05:01 PM Operator: [GC]5R0301.D\DATA.MS
Sample : PEM 2 Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 14 7:44 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081ED.M
Title :
Last Update : Tue Jun 13 17:04:26 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.68	8.81	3112726	1056231	45.947m	44.628
					Recovery	=	91.89%	89.26%
23)	S	Decachlorobiphenyl	18.18	20.86	1964371	846781	40.752	40.220
					Recovery	=	81.50%	80.44%
		Target Compounds						
2)	M	Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3)	M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	M	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
5)	M	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6)	M	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	M	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
8)	M	Aldrin	0.00	0.00	0	0	N.D.	N.D.
9)	M	Heptachlor Epoxide	0.00	0.00	0	0	N.D.	N.D.
20)	M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
21)	M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
22)	M	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
23)	M	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
24)	M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
25)	M	Endrin	14.09	15.41	4771269	1567155	106.821m	97.510
26)	M	4,4'-DDD	14.19	15.52	284063	144378	5.936m	8.429m#
27)	M	Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
28)	M	4,4'-DDT	14.64	16.04	3755140	1304727	92.272	101.459
29)	M	Endrin Aldehyde	15.19	16.33	49628	23461	N.D.m	0.144m
30)	M	Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
31)	M	Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
32)	M	Endrin Ketone	16.39	17.90	389637	139933	4.871	5.691m

ε $\frac{439265}{5210534} = 8.4\%$ DDT $\frac{284063}{4039203} = 7.03\%$

ε $\frac{163394}{1730549} = 9.44\%$ DDT $\frac{144378}{1449105} = 9.96\%$

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
035F0301.D 8081ED.M Wed Jun 14 07:44:48 2006 Page 1

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06136A\034F0301.D Vial: 34
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06136A\034F0301.D\034R0301.D
Acq On : 13 Jun 06 04:32 PM Operator: [GC]4R0301.D\DATA.MS
Sample : PEST SS ~~CCV~~ SCV1 Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 13 17:20 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081ED.M
Title :
Last Update : Tue Jun 13 17:04:26 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.68	8.81	3449745	1169967	51.189m	49.417
					Recovery	=	102.38%	98.83%
13)	S	Decachlorobiphenyl	18.18	20.86	2464887	1073538	52.106	51.739
					Recovery	=	104.21%	103.48%
		Target Compounds						
2)	M	Hexachlorobenzene	8.69	9.97	4708610	1707755	42.990	43.065m
3)	M	alpha-BHC	9.12	10.31	3857135	1355766	49.857	47.648
4)	M	gamma-BHC (Lindane)	9.84	11.09	3610595	1330387	50.069	48.376
5)	M	beta-BHC	10.06	11.27	1964541	713780	50.462	49.304
6)	M	delta-BHC	10.43	11.86	3291690	1166039	46.120	44.878
7)	M	Heptachlor	10.84	12.00	3586881	1219429	50.322	48.373
8)	M	Aldrin	11.42	12.64	3141465	1197090	49.631	48.240
9)	M	Heptachlor Epoxide	12.57	13.69	2987150	1153434	50.298	48.864
10)	M	gamma-Chlordane	12.79	14.03	3020788	1206588	49.989	49.224
11)	M	alpha-Chlordane	13.03	14.28	2912993	1183113	50.212	49.465
12)	M	4,4'-DDE	13.16	14.52	2774177	1109974	49.207	48.336
13)	M	Endosulfan I	13.27	14.41	2945617	1065829	49.968	48.745
14)	M	Dieldrin	13.69	14.88	2756838	1085645	51.008	49.553
15)	M	Endrin	14.09	15.41	2159008	728108	48.029	46.070
16)	M	4,4'-DDD	14.18	15.51	2479746	932367	49.007	48.478
17)	M	Endosulfan II	14.48	15.76	2531699	1067747	49.996	49.269
18)	M	4,4'-DDT	14.64	16.04	1948295	560951	47.742	45.982
19)	M	Endrin Aldehyde	15.18	16.33	2127366	880335	48.702	47.948
20)	M	Methoxychlor	15.43	17.22	1042934	353822	46.861	46.157
21)	M	Endosulfan Sulfate	15.91	16.84	2419114	919307	49.963	48.263
22)	M	Endrin Ketone	16.39	17.92	2959813	1221754	47.908m	46.889

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
034F0301.D 8081ED.M Wed Jun 14 07:58:38 2006 Page 1

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06136A\004F0401.D Vial: 4
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06136A\004F0401.D\004R0401.D
Acq On : 13 Jun 06 05:29 PM Operator: [GC]4R0401.D\DATA.MS
Sample : CHLOR 250PPB CCV1 Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 14 8:11 19106

Method : Q:\SVOA\GC3_GE\METHODS\CHADIC.M
Title :
Last Update : Mon Jun 12 12:29:08 2006
Response via : Multiple Level Calibration

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.68	8.81	1590615	504103	26.239m	24.105
					Recovery	=	52.48%	48.21%
6)	S	Decachlorobiphenyl	18.18	20.86	1097640	460775	23.704m	23.960
					Recovery	=	47.41%	47.92%
		Target Compounds						
2)	L	Chlordane (1)	10.67	11.71	579035	187559	278.583	244.726
3)	L	Chlordane (2)	10.83	12.00	945439	289766	265.854	246.876
4)	L	Chlordane (3)	12.79	14.03	1879078	719963	256.458	258.060
5)	L	Chlordane (4)	13.01	14.28	2915970	616736	254.650	252.929
		Total Chlordane (1)			6319521	1814024	1055.545	1002.591
		Average Chlordane (1)					263.886	250.648

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06136A\004F0501.D Vial: 4
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06136A\004F0501.D\004R0501.D
Acq On : 14 Jun 06 01:26 AM Operator: [GC]4R0501.D\DATA.MS
Sample : CHLOR 250PPB CCV2 Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 14 8:11 19106

Method : Q:\SVOA\GC3_GE\METHODS\CHADIC.M
Title :
Last Update : Mon Jun 12 12:29:08 2006
Response via : Multiple Level Calibration

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.68	8.81	1818669	529792	30.001	25.334
					Recovery	=	60.00%	50.67%
6)	S	Decachlorobiphenyl	18.18	20.87	1150142	468483	24.838m	24.361
					Recovery	=	49.68%	48.72%
		Target Compounds						
2)	L	Chlordane (1)	10.67	11.71	600957	195965	289.130	255.695
3)	L	Chlordane (2)	10.84	12.01	953214	296217	268.041	252.373
4)	L	Chlordane (3)	12.79	14.03	1968688	747015	268.688	267.756
5)	L	Chlordane (4)	13.02	14.28	3034907	640647	265.036	262.735
Total		Chlordane (1)			6557767	1879844	1090.895	1038.559
Average		Chlordane (1)					272.724	259.640

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
004F0501.D CHADIC.M Wed Jun 14 08:12:00 2006 Page 1

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06136A\036F0601.D Vial: 36
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06136A\036F0601.D\036R0601.D
Acq On : 14 Jun 06 01:54 AM Operator: [GC]6R0601.D\DATA.MS
Sample : PEST 50CC CCV3 Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 14 6:27 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081ED.M
Title :
Last Update : Tue Jun 13 17:04:26 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.69	8.81	3727999	1211936	55.517	51.184
					Recovery	=	111.03%	102.37%
23)	S	Decachlorobiphenyl	18.18	20.87	2445355	1054796	51.663	50.787
					Recovery	=	103.33%	101.57%
		Target Compounds						
2)	M	Hexachlorobenzene	8.69	9.98	5788455	2051827	53.869	51.975
3)	M	alpha-BHC	9.12	10.31	4003322	1391492	51.713	48.803
4)	M	gamma-BHC (Lindane)	9.84	11.09	3685774	1341481	51.111	48.759
5)	M	beta-BHC	10.06	11.27	2019657	719284	51.909	49.681
6)	M	delta-BHC	10.43	11.86	3576907	1285475	50.005	49.160
7)	M	Heptachlor	10.84	12.01	3550066	1199186	49.793	47.592
8)	M	Aldrin	11.43	12.64	3245261	1232461	51.282	49.617
9)	M	Heptachlor Epoxide	12.57	13.70	3080146	1176588	51.907	49.845
0)	M	gamma-Chlordane	12.79	14.03	3123015	1227849	51.720	50.091
1)	M	alpha-Chlordane	13.03	14.28	2970026	1203707	51.237	50.327
2)	M	4,4'-DDE	13.16	14.52	2860645	1135570	50.773	49.429
3)	M	Endosulfan I	13.27	14.41	3002969	1091364	50.958	49.894
4)	M	Dieldrin	13.69	14.89	2752703	1080717	50.931	49.334
5)	M	Endrin	14.09	15.41	2198583	740191	48.919	46.811
6)	M	4,4'-DDD	14.18	15.51	2731165	1027978	53.939	53.337
7)	M	Endosulfan II	14.48	15.77	2581675	1030013	51.004	47.483
8)	M	4,4'-DDT	14.64	16.04	1318738	371552	32.227	31.856
9)	M	Endrin Aldehyde	15.18	16.34	2209250	914894	50.657	49.876
0)	M	Methoxychlor	15.43	17.22	874399	281720	39.591	37.523
1)	M	Endosulfan Sulfate	15.91	16.84	2513050	958152	51.966	50.293
2)	M	Endrin Ketone	16.40	17.92	3325644	1335525	54.034	51.222

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
036F0601.D 8081ED.M Wed Jun 14 07:59:00 2006 Page 1

Pesticides Logbooks

ESS Organic Preparation Logbook

Project #: 0606078
Prep Date: 6/8/06
Batch ID: BF60801
Extraction Method: 3541

Surrogate ID#
A 6E30055
B NA
C NA

Matrix Spike ID#
D 6F05037
E 6C08039
F NA

Analytical Matrix: Soil
Extraction Time:
Start: 4:48PM
Finish: ——

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
PXPTX BF60801B	20.0	1	NA	10	10	NA	6/8/06	40C	NA	NA		Kaw	no	LC
PXBF60801BS	20.0	1	1D	10	10								witness	
PXBF60801BSD	20.0	1	1D	10	10									
PTXBF60801BS	20.1	1	1E	10	10									
PTXBF60801BSD	20.2	1	1E	10	10									
0606078-01	20.0	1	NA	10	10									
02	20.0	1		10	10									
03	20.1	1		10	10									
04	20.2	1		10	10									
05	20.0	1	NA	10	10									
PX0606078 05MS	20.0	1	1D	10	10									
05MSD	20.1	1	1D	10	10									
PTX0606078-05MS	20.1	1	1E	10	10									
05MSD	20.0	1	1E	10	10									
06	20.0	1	NA	10	10									
07	20.1	1		10	10									
08	20.9	1		10	10									
09	20.1	1		10	10									
10	20.2	1		10	10									
11	20.0	1		10	10									
12	20.0	1		10	10									
14	20.6	1		10	10									
15	20.1	1		10	10									
16	20.0	1		10	10									
17	20.0	1	NA	10	10	NA	6/8/06	40C	NA	NA		Kaw		LC

Analysis Performed
- PCB ☒
- B/N SVOA ☐
- SVOA ☐
- LL PAH ☐
- PEST ☒
- TPH/GC ☐
- BIS-2 ☐
- PAH ☐

Acid Washed: (Y)/N — H_2SO_4 ID#: 5D05050JA
Cu Cleaned: Y/(N) — Cu ID#: NA
Florisiled: Y/(N) — Lot#: NA
Silica Column/Carbon prep: Y/(N) — Lot #: NA

CH_2Cl_2 lot #: NA
NaOH ID#: NA
Hexane lot#: CP988
Na_2SO_4 ID#: PRK0530061E
Acetone lot#: C15E11

Prepared By: Kaw
Glasswool: PRK0530061E 06020613
Method #(s): 8082/8081

**Check off column if entire sample used and bottle discarded.

620

Control #50.0001-0603A
BATCH ID/Test: BF60801
BATCH ID/Test: ______
Page ______

PCB
Data Package

PCB
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI006
Date Sampled: 06/05/06 15:05
Percent Solids: 78
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-01
Sample Matrix: Soil
Analyst: ML
Prepared: 06/08/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	64.0	1	06/13/06
Aroclor 1221	ND	ug/Kg dry	64.0	1	06/13/06
Aroclor 1232	ND	ug/Kg dry	64.0	1	06/13/06
Aroclor 1242	**483**	ug/Kg dry	64.0	1	06/13/06
Aroclor 1248	ND	ug/Kg dry	64.0	1	06/13/06
Aroclor 1254	**369**	ug/Kg dry	64.0	1	06/13/06
Aroclor 1260	ND	ug/Kg dry	64.0	1	06/13/06
Aroclor 1262	ND	ug/Kg dry	64.0	1	06/13/06
Aroclor 1268	ND	ug/Kg dry	64.0	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*76 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*73 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*65 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*72 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI005
Date Sampled: 06/05/06 15:30
Percent Solids: 53
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-02
Sample Matrix: Soil
Analyst: ML
Prepared: 06/08/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	94.2	1	06/13/06
Aroclor 1221	ND	ug/Kg dry	94.2	1	06/13/06
Aroclor 1232	ND	ug/Kg dry	94.2	1	06/13/06
Aroclor 1242	ND	ug/Kg dry	94.2	1	06/13/06
Aroclor 1248	ND	ug/Kg dry	94.2	1	06/13/06
Aroclor 1254	**245**	ug/Kg dry	94.2	1	06/13/06
Aroclor 1260	ND	ug/Kg dry	94.2	1	06/13/06
Aroclor 1262	ND	ug/Kg dry	94.2	1	06/13/06
Aroclor 1268	ND	ug/Kg dry	94.2	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*64 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*87 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI004
Date Sampled: 06/05/06 15:50
Percent Solids: 82
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-03
Sample Matrix: Soil
Analyst: ML
Prepared: 06/08/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	60.6	1	06/13/06
Aroclor 1221	ND	ug/Kg dry	60.6	1	06/13/06
Aroclor 1232	ND	ug/Kg dry	60.6	1	06/13/06
Aroclor 1242	ND	ug/Kg dry	60.6	1	06/13/06
Aroclor 1248	ND	ug/Kg dry	60.6	1	06/13/06
Aroclor 1254	ND	ug/Kg dry	60.6	1	06/13/06
Aroclor 1260	ND	ug/Kg dry	60.6	1	06/13/06
Aroclor 1262	ND	ug/Kg dry	60.6	1	06/13/06
Aroclor 1268	ND	ug/Kg dry	60.6	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*77 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*46 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*64 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*74 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008
Date Sampled: 06/06/06 14:52
Percent Solids: 65
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-04
Sample Matrix: Soil
Analyst: ML
Prepared: 06/08/06

8082 Polychlorinated Biphenyls (PCB)

Analyte		Results	Units	MRL	DF	Analyzed
Aroclor 1016		ND	ug/Kg dry	76.1	1	06/14/06
Aroclor 1221		ND	ug/Kg dry	76.1	1	06/13/06
Aroclor 1232		ND	ug/Kg dry	76.1	1	06/13/06
Aroclor 1242		ND	ug/Kg dry	76.1	1	06/13/06
Aroclor 1248		ND	ug/Kg dry	76.1	1	06/13/06
Aroclor 1254	E	**5750**	ug/Kg dry	76.1	1	06/13/06
Aroclor 1260	E	**1340**	ug/Kg dry	76.1	1	06/13/06
Aroclor 1262		ND	ug/Kg dry	76.1	1	06/13/06
Aroclor 1268		ND	ug/Kg dry	76.1	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*63 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*51 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*57 %*		*30-150*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008
Date Sampled: 06/06/06 14:52
Percent Solids: 65
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-04RE1
Sample Matrix: Soil
Analyst: ML
Prepared: 06/08/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	761	10	06/14/06
Aroclor 1221	ND	ug/Kg dry	761	10	06/14/06
Aroclor 1232	ND	ug/Kg dry	761	10	06/14/06
Aroclor 1242	ND	ug/Kg dry	761	10	06/14/06
Aroclor 1248	ND	ug/Kg dry	761	10	06/14/06
Aroclor 1254	**6020**	ug/Kg dry	761	10	06/14/06
Aroclor 1260	**1660**	ug/Kg dry	761	10	06/14/06
Aroclor 1262	ND	ug/Kg dry	761	10	06/14/06
Aroclor 1268	ND	ug/Kg dry	761	10	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*50 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*102 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*64 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*74 %*		*30-150*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008 DUP
Date Sampled: 06/06/06 14:52
Percent Solids: 63
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-05
Sample Matrix: Soil
Analyst: ML
Prepared: 06/08/06

8082 Polychlorinated Biphenyls (PCB)

Analyte		Results	Units	MRL	DF	Analyzed
Aroclor 1016		ND	ug/Kg dry	79.3	1	06/13/06
Aroclor 1221		ND	ug/Kg dry	79.3	1	06/13/06
Aroclor 1232		ND	ug/Kg dry	79.3	1	06/13/06
Aroclor 1242		ND	ug/Kg dry	79.3	1	06/13/06
Aroclor 1248		ND	ug/Kg dry	79.3	1	06/13/06
Aroclor 1254	E	**6750**	ug/Kg dry	79.3	1	06/13/06
Aroclor 1260		ND	ug/Kg dry	79.3	1	06/13/06
Aroclor 1262		ND	ug/Kg dry	79.3	1	06/13/06
Aroclor 1268		ND	ug/Kg dry	79.3	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*88 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*48 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*53 %*		*30-150*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008 DUP
Date Sampled: 06/06/06 14:52
Percent Solids: 63
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-05RE1
Sample Matrix: Soil
Analyst: ML
Prepared: 06/08/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	793	10	06/14/06
Aroclor 1221	ND	ug/Kg dry	793	10	06/14/06
Aroclor 1232	ND	ug/Kg dry	793	10	06/14/06
Aroclor 1242	ND	ug/Kg dry	793	10	06/14/06
Aroclor 1248	ND	ug/Kg dry	793	10	06/14/06
Aroclor 1254	**7150**	ug/Kg dry	793	10	06/14/06
Aroclor 1260	**2020**	ug/Kg dry	793	10	06/14/06
Aroclor 1262	ND	ug/Kg dry	793	10	06/14/06
Aroclor 1268	ND	ug/Kg dry	793	10	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*44 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*64 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*73 %*		*30-150*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI208
Date Sampled: 06/06/06 11:17
Percent Solids: 89
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-07
Sample Matrix: Soil
Analyst: ML
Prepared: 06/08/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	55.8	1	06/13/06
Aroclor 1221	ND	ug/Kg dry	55.8	1	06/13/06
Aroclor 1232	ND	ug/Kg dry	55.8	1	06/13/06
Aroclor 1242	ND	ug/Kg dry	55.8	1	06/13/06
Aroclor 1248	ND	ug/Kg dry	55.8	1	06/13/06
Aroclor 1254	ND	ug/Kg dry	55.8	1	06/13/06
Aroclor 1260	ND	ug/Kg dry	55.8	1	06/13/06
Aroclor 1262	ND	ug/Kg dry	55.8	1	06/13/06
Aroclor 1268	ND	ug/Kg dry	55.8	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*44 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*47 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*88 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI010
Date Sampled: 06/06/06 08:31
Percent Solids: 88
Initial Volume: 20.9
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-08
Sample Matrix: Soil
Analyst: ML
Prepared: 06/08/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	54.3	1	06/13/06
Aroclor 1221	ND	ug/Kg dry	54.3	1	06/13/06
Aroclor 1232	ND	ug/Kg dry	54.3	1	06/13/06
Aroclor 1242	ND	ug/Kg dry	54.3	1	06/13/06
Aroclor 1248	ND	ug/Kg dry	54.3	1	06/13/06
Aroclor 1254	**87.5**	ug/Kg dry	54.3	1	06/13/06
Aroclor 1260	ND	ug/Kg dry	54.3	1	06/13/06
Aroclor 1262	ND	ug/Kg dry	54.3	1	06/13/06
Aroclor 1268	ND	ug/Kg dry	54.3	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*89 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*80 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI003
Date Sampled: 06/06/06 09:16
Percent Solids: 88
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-09
Sample Matrix: Soil
Analyst: ML
Prepared: 06/08/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	56.5	1	06/13/06
Aroclor 1221	ND	ug/Kg dry	56.5	1	06/13/06
Aroclor 1232	ND	ug/Kg dry	56.5	1	06/13/06
Aroclor 1242	ND	ug/Kg dry	56.5	1	06/13/06
Aroclor 1248	ND	ug/Kg dry	56.5	1	06/13/06
Aroclor 1254	ND	ug/Kg dry	56.5	1	06/13/06
Aroclor 1260	ND	ug/Kg dry	56.5	1	06/13/06
Aroclor 1262	ND	ug/Kg dry	56.5	1	06/13/06
Aroclor 1268	ND	ug/Kg dry	56.5	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*42 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*48 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*70 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI011
Date Sampled: 06/06/06 08:11
Percent Solids: 76
Initial Volume: 20.2
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-10
Sample Matrix: Soil
Analyst: ML
Prepared: 06/08/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	65.1	1	06/13/06
Aroclor 1221	ND	ug/Kg dry	65.1	1	06/13/06
Aroclor 1232	ND	ug/Kg dry	65.1	1	06/13/06
Aroclor 1242	ND	ug/Kg dry	65.1	1	06/13/06
Aroclor 1248	ND	ug/Kg dry	65.1	1	06/13/06
Aroclor 1254	ND	ug/Kg dry	65.1	1	06/13/06
Aroclor 1260	ND	ug/Kg dry	65.1	1	06/13/06
Aroclor 1262	ND	ug/Kg dry	65.1	1	06/13/06
Aroclor 1268	ND	ug/Kg dry	65.1	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*44 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*47 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*87 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI210
Date Sampled: 06/06/06 13:31
Percent Solids: 93
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-11
Sample Matrix: Soil
Analyst: ML
Prepared: 06/08/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	53.7	1	06/13/06
Aroclor 1221	ND	ug/Kg dry	53.7	1	06/13/06
Aroclor 1232	ND	ug/Kg dry	53.7	1	06/13/06
Aroclor 1242	ND	ug/Kg dry	53.7	1	06/13/06
Aroclor 1248	ND	ug/Kg dry	53.7	1	06/13/06
Aroclor 1254	ND	ug/Kg dry	53.7	1	06/13/06
Aroclor 1260	ND	ug/Kg dry	53.7	1	06/13/06
Aroclor 1262	ND	ug/Kg dry	53.7	1	06/13/06
Aroclor 1268	ND	ug/Kg dry	53.7	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*47 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*46 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*82 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI206
Date Sampled: 06/06/06 10:35
Percent Solids: 81
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-12
Sample Matrix: Soil
Analyst: ML
Prepared: 06/08/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	61.7	1	06/13/06
Aroclor 1221	ND	ug/Kg dry	61.7	1	06/13/06
Aroclor 1232	ND	ug/Kg dry	61.7	1	06/13/06
Aroclor 1242	ND	ug/Kg dry	61.7	1	06/13/06
Aroclor 1248	ND	ug/Kg dry	61.7	1	06/13/06
Aroclor 1254	ND	ug/Kg dry	61.7	1	06/13/06
Aroclor 1260	ND	ug/Kg dry	61.7	1	06/13/06
Aroclor 1262	ND	ug/Kg dry	61.7	1	06/13/06
Aroclor 1268	ND	ug/Kg dry	61.7	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*58 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*58 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*88 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI209
Date Sampled: 06/06/06 13:45
Percent Solids: 92
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-14
Sample Matrix: Soil
Analyst: ML
Prepared: 06/08/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	52.7	1	06/14/06
Aroclor 1221	ND	ug/Kg dry	52.7	1	06/14/06
Aroclor 1232	ND	ug/Kg dry	52.7	1	06/14/06
Aroclor 1242	ND	ug/Kg dry	52.7	1	06/14/06
Aroclor 1248	ND	ug/Kg dry	52.7	1	06/14/06
Aroclor 1254	ND	ug/Kg dry	52.7	1	06/14/06
Aroclor 1260	ND	ug/Kg dry	52.7	1	06/14/06
Aroclor 1262	ND	ug/Kg dry	52.7	1	06/14/06
Aroclor 1268	ND	ug/Kg dry	52.7	1	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*48 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*49 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*86 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI207
Date Sampled: 06/06/06 10:14
Percent Solids: 86
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-15
Sample Matrix: Soil
Analyst: ML
Prepared: 06/08/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	57.8	1	06/14/06
Aroclor 1221	ND	ug/Kg dry	57.8	1	06/14/06
Aroclor 1232	ND	ug/Kg dry	57.8	1	06/14/06
Aroclor 1242	ND	ug/Kg dry	57.8	1	06/14/06
Aroclor 1248	ND	ug/Kg dry	57.8	1	06/14/06
Aroclor 1254	ND	ug/Kg dry	57.8	1	06/14/06
Aroclor 1260	ND	ug/Kg dry	57.8	1	06/14/06
Aroclor 1262	ND	ug/Kg dry	57.8	1	06/14/06
Aroclor 1268	ND	ug/Kg dry	57.8	1	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*53 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*52 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*92 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI001
Date Sampled: 06/06/06 11:01
Percent Solids: 82
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-16
Sample Matrix: Soil
Analyst: ML
Prepared: 06/08/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	60.9	1	06/14/06
Aroclor 1221	ND	ug/Kg dry	60.9	1	06/14/06
Aroclor 1232	ND	ug/Kg dry	60.9	1	06/14/06
Aroclor 1242	ND	ug/Kg dry	60.9	1	06/14/06
Aroclor 1248	ND	ug/Kg dry	60.9	1	06/14/06
Aroclor 1254	ND	ug/Kg dry	60.9	1	06/14/06
Aroclor 1260	ND	ug/Kg dry	60.9	1	06/14/06
Aroclor 1262	ND	ug/Kg dry	60.9	1	06/14/06
Aroclor 1268	ND	ug/Kg dry	60.9	1	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*84 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*77 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*89 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI007
Date Sampled: 06/06/06 16:23
Percent Solids: 58
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-17
Sample Matrix: Soil
Analyst: ML
Prepared: 06/08/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	86.1	1	06/14/06
Aroclor 1221	ND	ug/Kg dry	86.1	1	06/14/06
Aroclor 1232	ND	ug/Kg dry	86.1	1	06/14/06
Aroclor 1242	ND	ug/Kg dry	86.1	1	06/14/06
Aroclor 1248	ND	ug/Kg dry	86.1	1	06/14/06
Aroclor 1254	**423**	ug/Kg dry	86.1	1	06/14/06
Aroclor 1260	**331**	ug/Kg dry	86.1	1	06/14/06
Aroclor 1262	ND	ug/Kg dry	86.1	1	06/14/06
Aroclor 1268	ND	ug/Kg dry	86.1	1	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*38 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*55 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*49 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*72 %*		*30-150*

PCB
Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch BF60801 - 3541										
Surrogate: Decachlorobiphenyl	*37.0*		ug/Kg dry	*39.7*		*93*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*43.0*		ug/Kg dry	*39.7*		*108*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*35.4*		ug/Kg dry	*39.7*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*29.3*		ug/Kg dry	*39.7*		*74*	*30-150*			
8082 Polychlorinated Biphenyls (PCB)										
Batch BF60801 - 3541										
Blank										
Aroclor 1016	ND	50.0	ug/Kg wet							
Aroclor 1221	ND	50.0	ug/Kg wet							
Aroclor 1232	ND	50.0	ug/Kg wet							
Aroclor 1242	ND	50.0	ug/Kg wet							
Aroclor 1248	ND	50.0	ug/Kg wet							
Aroclor 1254	ND	50.0	ug/Kg wet							
Aroclor 1260	ND	50.0	ug/Kg wet							
Aroclor 1262	ND	50.0	ug/Kg wet							
Aroclor 1268	ND	50.0	ug/Kg wet							
Surrogate: Decachlorobiphenyl	*16.3*		ug/Kg wet	*25.0*		*65*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*16.2*		ug/Kg wet	*25.0*		*65*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*12.6*		ug/Kg wet	*25.0*		*50*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*13.6*		ug/Kg wet	*25.0*		*54*	*30-150*			
LCS										
Aroclor 1016	508	50.0	ug/Kg wet	500		102	40-140			
Aroclor 1260	504	50.0	ug/Kg wet	500		101	40-140			
Surrogate: Decachlorobiphenyl	*18.0*		ug/Kg wet	*25.0*		*72*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*18.4*		ug/Kg wet	*25.0*		*74*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*22.1*		ug/Kg wet	*25.0*		*88*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*22.5*		ug/Kg wet	*25.0*		*90*	*30-150*			
LCS Dup										
Aroclor 1016	527	50.0	ug/Kg wet	500		105	40-140	4	50	
Aroclor 1260	513	50.0	ug/Kg wet	500		103	40-140	2	50	
Surrogate: Decachlorobiphenyl	*18.1*		ug/Kg wet	*25.0*		*72*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*20.2*		ug/Kg wet	*25.0*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*23.8*		ug/Kg wet	*25.0*		*95*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*23.6*		ug/Kg wet	*25.0*		*94*	*30-150*			
Matrix Spike **Source: 0606078-05**										
Aroclor 1016	606	79.3	ug/Kg dry	794	ND	76	40-140			
Aroclor 1260	1670	396	ug/Kg dry	794	2020	NR	40-140			+
Surrogate: Decachlorobiphenyl	*16.5*		ug/Kg dry	*39.7*		*42*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*23.3*		ug/Kg dry	*39.7*		*59*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*19.4*		ug/Kg dry	*39.7*		*49*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*20.4*		ug/Kg dry	*39.7*		*51*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606078

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch BF60801 - 3541										
Matrix Spike Dup Source: 0606078-05										
Aroclor 1016	712	78.9	ug/Kg dry	790	ND	90	40-140	16	50	
Aroclor 1260	2140	394	ug/Kg dry	790	2020	15	40-140	25	50	+
Surrogate: Decachlorobiphenyl	*20.8*		ug/Kg dry	*39.5*		*53*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*26.1*		ug/Kg dry	*39.5*		*66*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*21.3*		ug/Kg dry	*39.5*		*54*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*20.7*		ug/Kg dry	*39.5*		*52*	*30-150*			
8270C Polynuclear Aromatic Hydrocarbons										
Batch BF60724 - 3541										
Blank										
1-Methylnaphthalene	ND	500	ug/Kg wet							
2-Methylnaphthalene	ND	500	ug/Kg wet							
Acenaphthene	ND	500	ug/Kg wet							
Acenaphthylene	ND	500	ug/Kg wet							
Anthracene	ND	500	ug/Kg wet							
Benzo(a)anthracene	ND	500	ug/Kg wet							
Benzo(a)pyrene	ND	500	ug/Kg wet							
Benzo(b)fluoranthene	ND	500	ug/Kg wet							
Benzo(g,h,i)perylene	ND	500	ug/Kg wet							
Benzo(k)fluoranthene	ND	500	ug/Kg wet							
Chrysene	ND	500	ug/Kg wet							
Dibenzo(a,h)Anthracene	ND	500	ug/Kg wet							
Fluoranthene	ND	500	ug/Kg wet							
Fluorene	ND	500	ug/Kg wet							
Indeno(1,2,3-cd)Pyrene	ND	500	ug/Kg wet							
Naphthalene	ND	500	ug/Kg wet							
Phenanthrene	ND	500	ug/Kg wet							
Pyrene	ND	500	ug/Kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*3890*		ug/Kg wet	*5000*		*78*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*4250*		ug/Kg wet	*5000*		*85*	*30-130*			
Surrogate: Nitrobenzene-d5	*4140*		ug/Kg wet	*5000*		*83*	*30-130*			
Surrogate: p-Terphenyl-d14	*3700*		ug/Kg wet	*5000*		*74*	*30-130*			
LCS										
2-Methylnaphthalene	3760	500	ug/Kg wet	5000		75	40-140			
Acenaphthene	3930	500	ug/Kg wet	5000		79	40-140			
Acenaphthylene	3900	500	ug/Kg wet	5000		78	40-140			
Anthracene	4350	500	ug/Kg wet	5000		87	40-140			
Benzo(a)anthracene	4530	500	ug/Kg wet	5000		91	40-140			
Benzo(a)pyrene	4470	500	ug/Kg wet	5000		89	40-140			
Benzo(b)fluoranthene	4810	500	ug/Kg wet	5000		96	40-140			
Benzo(g,h,i)perylene	3650	500	ug/Kg wet	5000		73	40-140			
Benzo(k)fluoranthene	3210	500	ug/Kg wet	5000		64	40-140			
Chrysene	4370	500	ug/Kg wet	5000		87	40-140			
Dibenzo(a,h)Anthracene	4230	500	ug/Kg wet	5000		85	40-140			

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PCB
Calibration Data

ANALYSIS SEQUENCE

BPG0135

Instrument: SVOAGC5

Calibnration ID: UNASSIGNED 8082CV

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0135-CAL1	QC 1660 50		1		6E31038		
BPG0135-CAL2	QC 1660 100		2		6E31039		
BPG0135-CAL3	QC 1660 500		3		6E31040		
BPG0135-CAL4	QC 1660 1000		4		6E31041		
BPG0135-CAL5	QC 1660 1600		5		6E31042		
BPG0135-CAL6	QC 1660 2000		6		6E31043		
BPG0135-SCV1	QC 1660 1000		7		6E31044		
BPG0135-CAL7	QC 1221		8		6E31045		
BPG0135-SCV2	QC 1221 SCV		9		6E31046		
BPG0135-CAL8	QC 1232		10		6E31047		
BPG0135-SCV3	QC 1232 SCV		11		6E31048		
BPG0135-CAL9	QC 1242		12		6E31049		
BPG0135-SCV4	QC 1242 SCV		13		6E31050		
BPG0135-CALA	QC 1248		14		6E31051		
BPG0135-SCV5	QC 1248 SCV		15		6E31052		
BPG0135-CALB	QC 1254		16		6E31053		
BPG0135-SCV6	QC 1254 SCV		17		6E31054		
BPG0135-CALC	QC 1262		18		6E31055		
BPG0135-SCV7	QC 1262 SCV		19		6E31056		
BPG0135-CALD	QC 1268		20		6E31057		
BPG0135-SCV8	QC 1268 SCV		21		6E31058		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/10/16	96	G6061066-96	Hexane	8082CV		
	1	-01	1660 50		6E31038 CAL 1	
	2	-02	100		35 2	
	3	-03	500		40 3	
	4	-04	1000		41 4	
	5	-05	1600		42 5	
	6	-06	2000		43 6	
	7	-07	1000 SS		44 SCV1	
	8	-08	1221		45 CAL7	
	9	-09	1221 SS		46 ~~SCV~~ CAL	
	10	-10	1232		47 CAL8	
	11	-11	1232 SS		48 SCV3	
	12	-12	1242		49 CAL9	
	13	-13	1242 SS		50 SCV4	
	14	-14	1248		51 CALA	
	15	-15	1248 SS		52 SCV 5	
	16	-16	1254		53 CALB	
	17	-17	1254 SS		54 SCV 6	
	18	-18	1262		55 CALC	
	19	-19	1262 SS		56 SCV 7	
	20	-20	1268		57 CALD	
	21	-21	1268 SS		6E3110 58 SCV 8	
	22	-22	Surr QC		6F10028 (100)	
	23	-23	Surr QC		78 (100)	
	24	-24	Surr QC		77 (100)	
	25	-25	BF81008-BS1			
	26	-26	-BSD			
	27	-27	-BSD2			
	28	-28	06151-15			
6/10/16	29	G6061006 -29	-15MS			BBB

CONTROL NUMBER 60.0031-0603A PAGE_____

Method : Q:\SVOA\GC5_GG\METHODS\8082CV.M
Title :
Last Update : Mon Jun 12 11:46:17 2006
Response via : Initial Calibration

Calibration Files
500 =003F0201.D 2000 =006F0201.D 50 =001F0201.D
100 =002F0201.D 1000 =004F0201.D 1600 =005F0201.D

	Compound	500	2000	50	100	1000	1600	Avg	%RSD
1)	S Tetrachloro-m-xylen	55.6	47.1	55.0	59.7	51.4	48.3	52.8 E3	9.12
2)	LM1 AR1016 (1)	1.2	0.9	1.4	1.3	1.1	1.0	1.1 E3	15.46
3)	LM1 AR1016 (2)	2.1	1.6	2.5	2.6	1.8	1.6	2.0 E3	21.18
4)	LM1 AR1016 (3)	3.9	3.0	4.7	4.8	3.4	3.2	3.8 E3	19.77
5)	LM1 AR1016 (4)	1.1	0.9	1.1	1.2	1.0	0.9	1.0 E3	13.46
6)	LM1 AR1016 (5)	908.1	767.3	1066.3	1059.5	838.0	803.3	907.1	14.26
7)	LM2 AR1260 (1)	2.8	2.1	3.5	3.4	2.4	2.2	2.7 E3	21.92
8)	LM2 AR1260 (2)	5.9	4.8	7.0	7.4	5.3	5.0	5.9 E3	18.06
9)	LM2 AR1260 (3)	2.1	1.8	2.3	2.4	1.9	1.8	2.1 E3	13.80
10)	LM2 AR1260 (4)	855.3	762.2	903.8	913.0	786.9	772.8	832.3	8.09
11)	LM2 AR1260 (5)	1.5	1.3	1.6	1.7	1.4	1.3	1.5 E3	11.21
12)	S Decachlorobiphenyl	49.6	38.4	70.5	63.5	43.6	39.4	50.8 E3	26.18

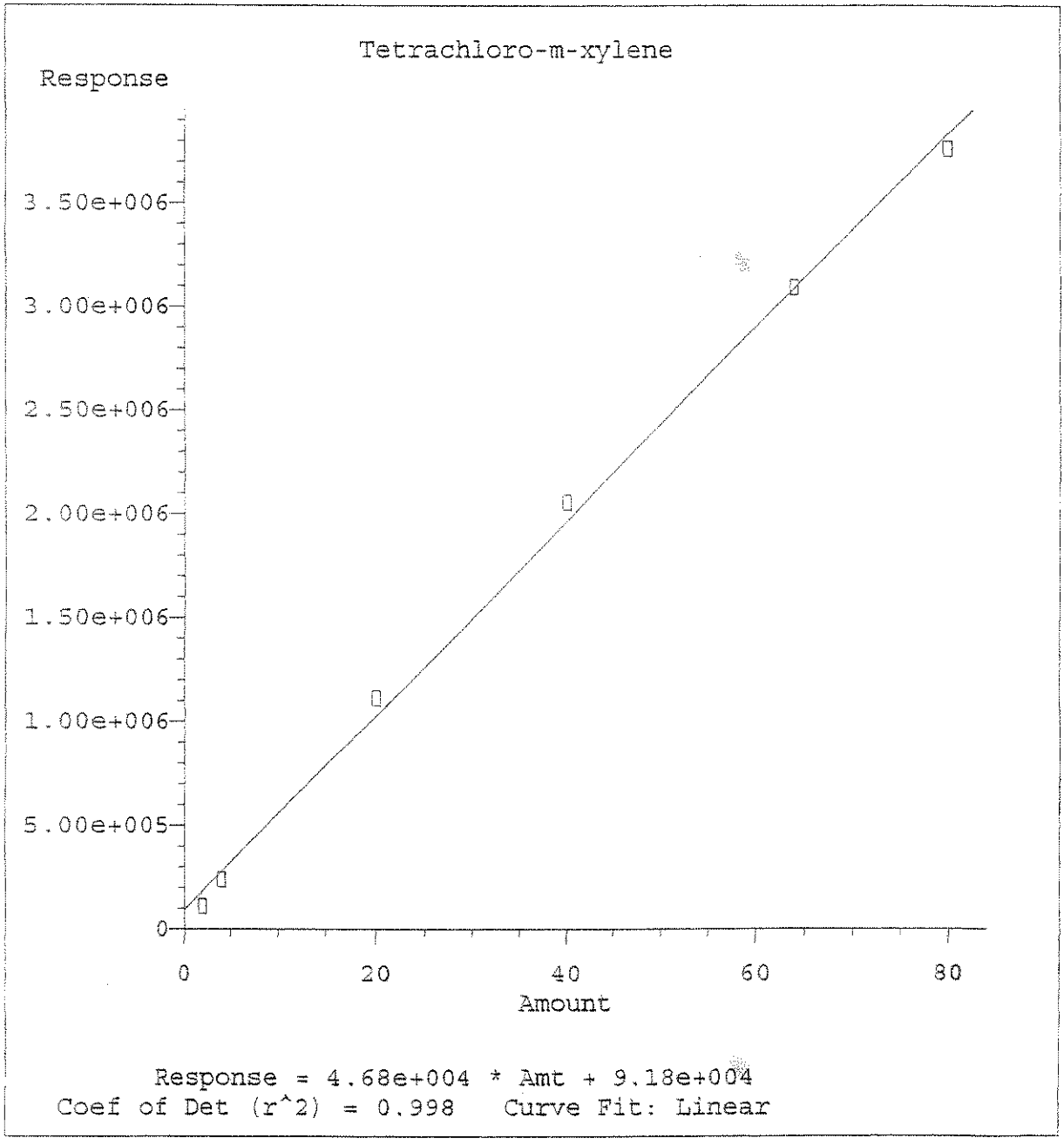
Used Linear Curve

Signal #2 Calibration Files
500 =003R0201.D 2000 =006R0201.D 50 =001R0201.D
100 =002R0201.D 1000 =002R0201.D 1600 =005R0201.D

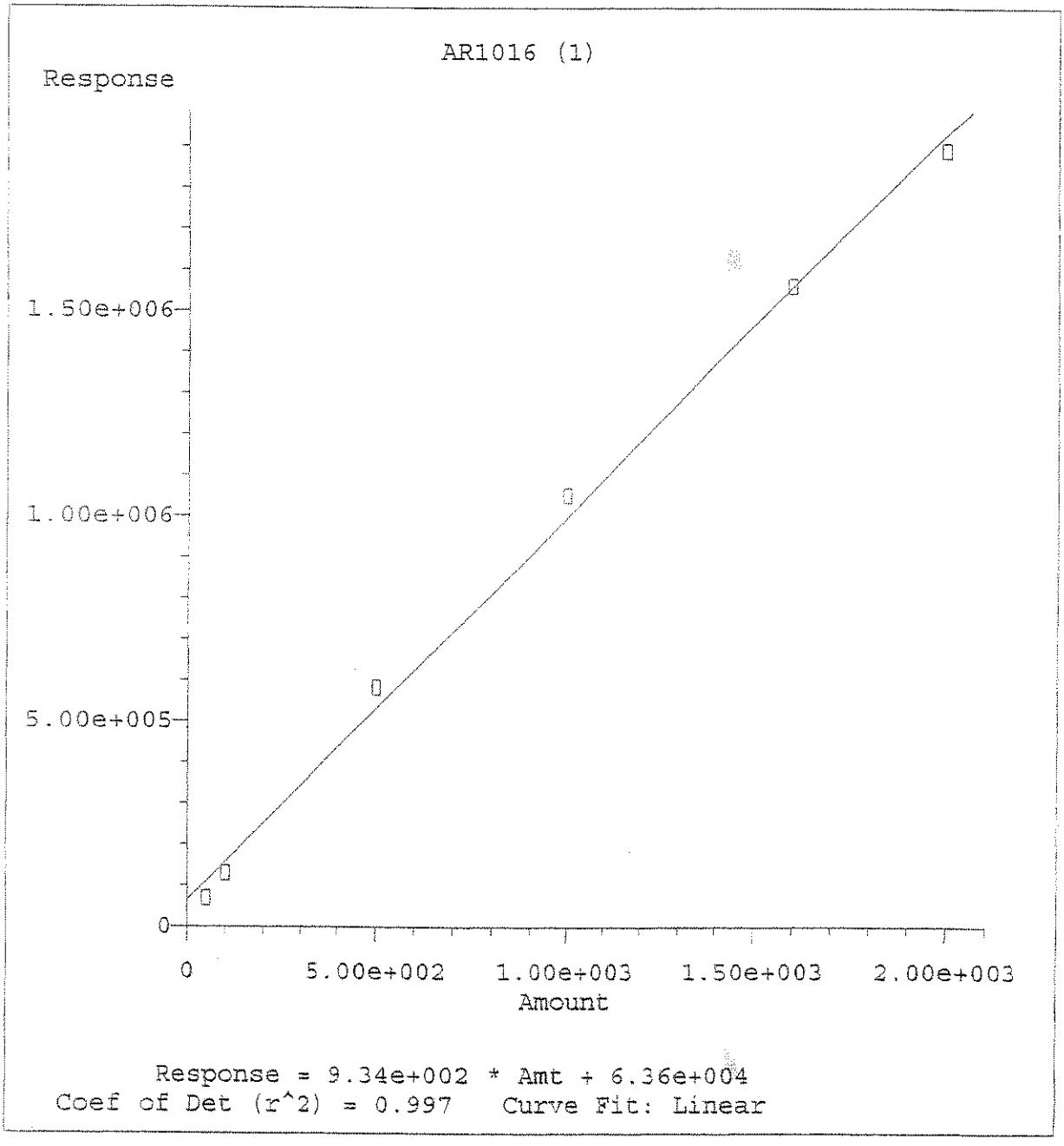
	Compound	500	2000	50	100	1000	1600	Avg	%RSD
1)	S Tetrachloro-m-xylen	46.7	43.7	46.5	49.2	46.3	44.5	46.1 E3	4.20
2)	LM1 AR1016 (1)	1.2	1.0	1.4	1.3	1.1	1.0	1.1 E3	14.67
3)	LM1 AR1016 (2)	2.0	1.6	2.3	2.5	1.8	1.7	2.0 E3	17.55
4)	LM1 AR1016 (3)	3.8	3.1	4.2	4.5	3.4	3.2	3.7 E3	15.54
5)	LM1 AR1016 (4)	1.3	1.2	1.3	1.5	1.3	1.2	1.3 E3	8.47
6)	LM1 AR1016 (5)	1.1	0.9	1.3	1.9	1.0	0.9	1.2 E3	30.30
7)	LM2 AR1260 (1)	2.6	2.1	3.0	3.2	2.4	2.2	2.6 E3	16.56
8)	LM2 AR1260 (2)	2.0	1.7	2.1	2.2	1.9	1.8	2.0 E3	10.59
9)	LM2 AR1260 (3)	4.0	3.5	4.1	4.3	3.7	3.6	3.9 E3	8.23
10)	LM2 AR1260 (4)	2.6	2.3	2.7	2.8	2.3	2.2	2.5 E3	10.07
11)	LM2 AR1260 (5)	986.4	973.6	937.4	1014.8	967.8	967.9	974.6	2.61
12)	S Decachlorobiphenyl	38.7	32.8	46.8	44.3	35.9	33.4	38.6 E3	15.01

Used Linear Curve.

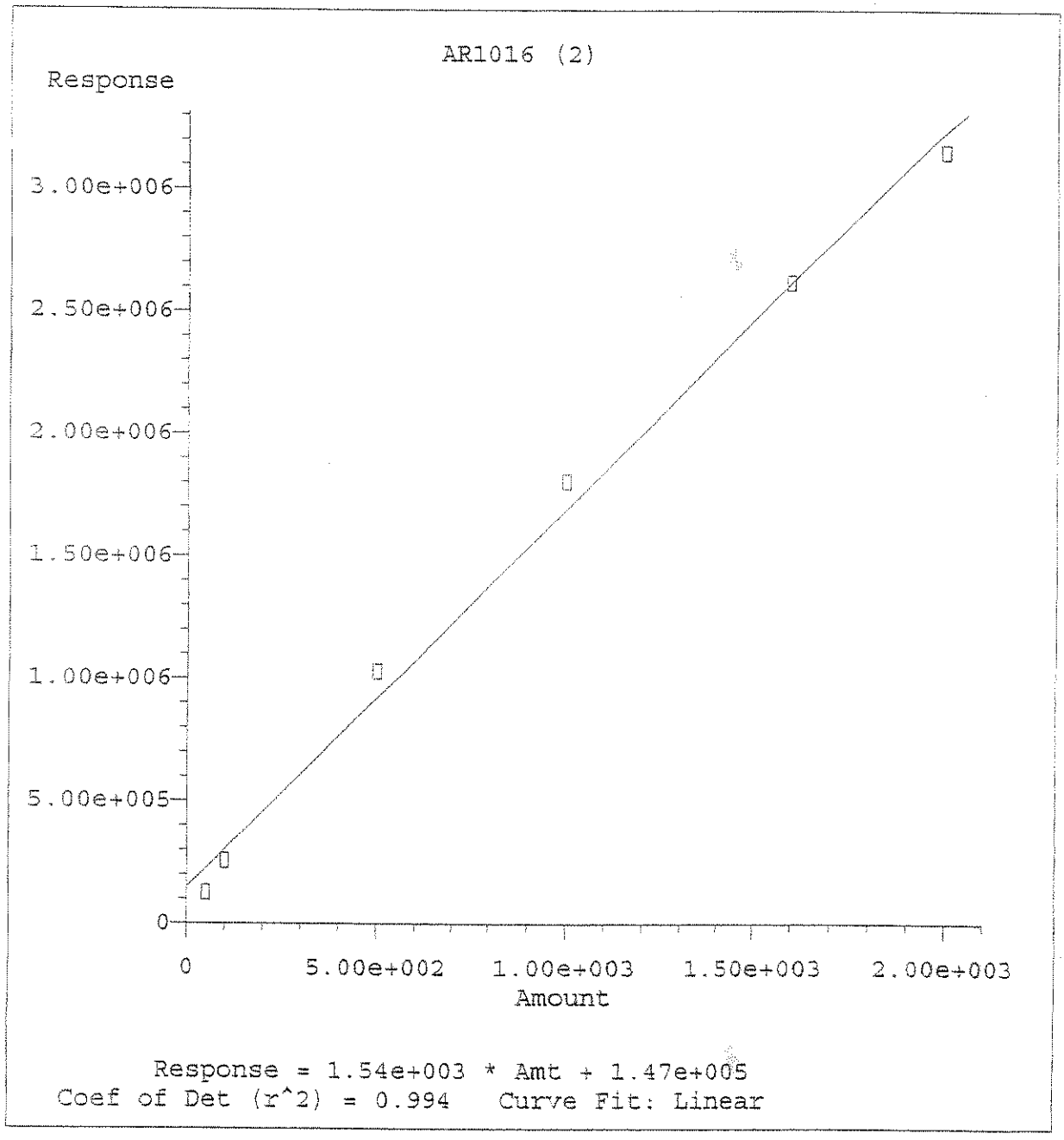
#) = Out of Range



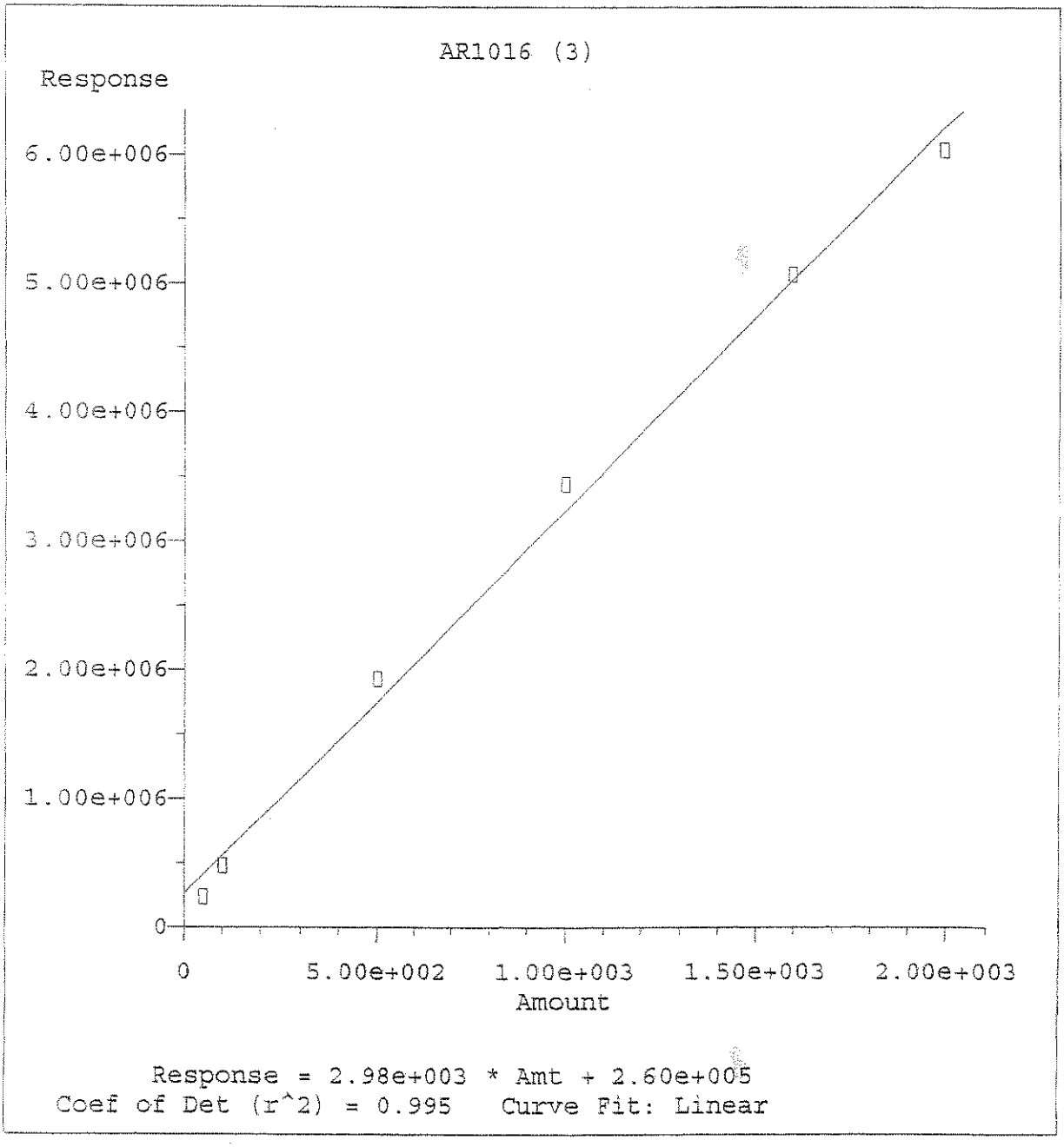
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



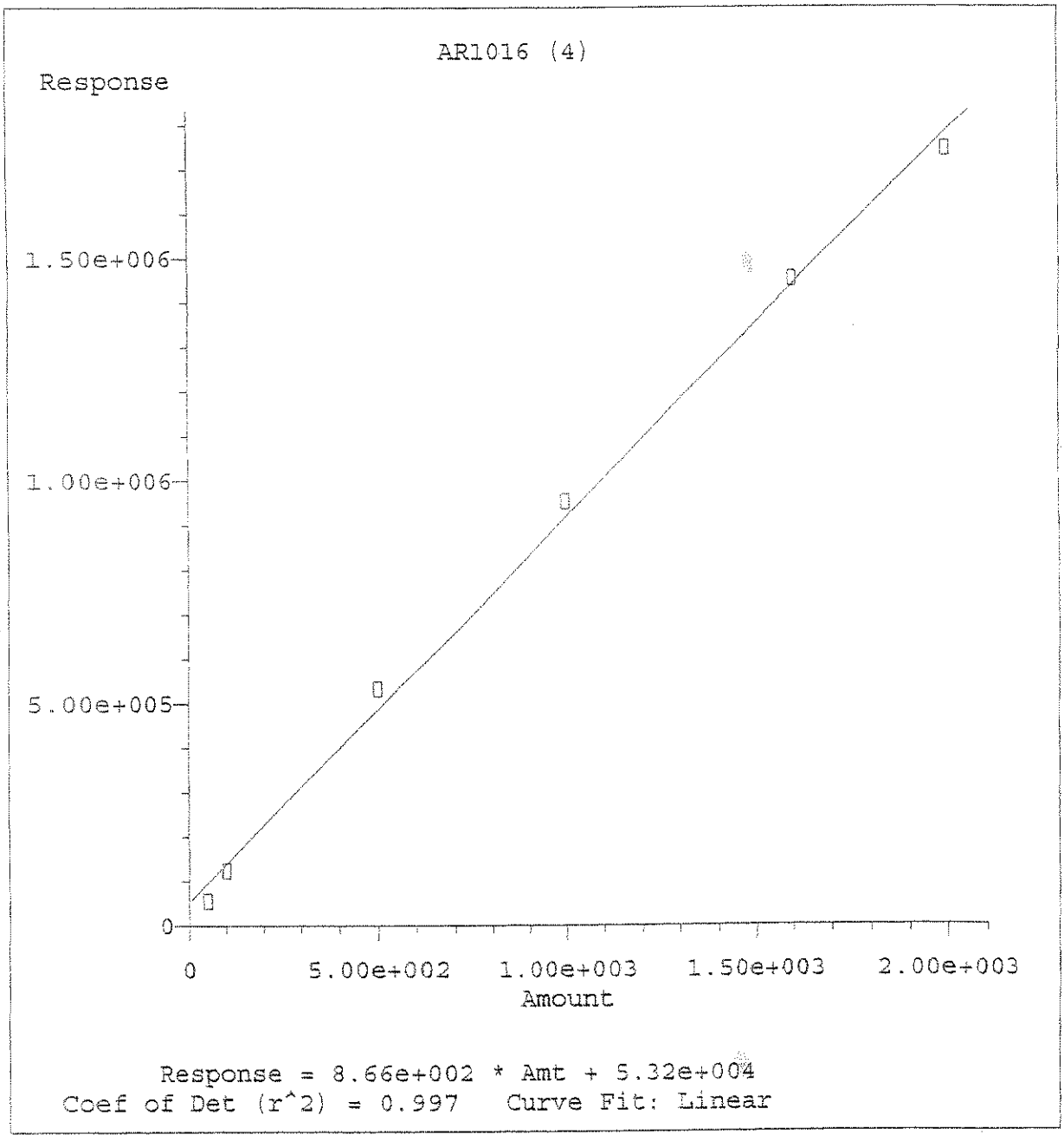
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



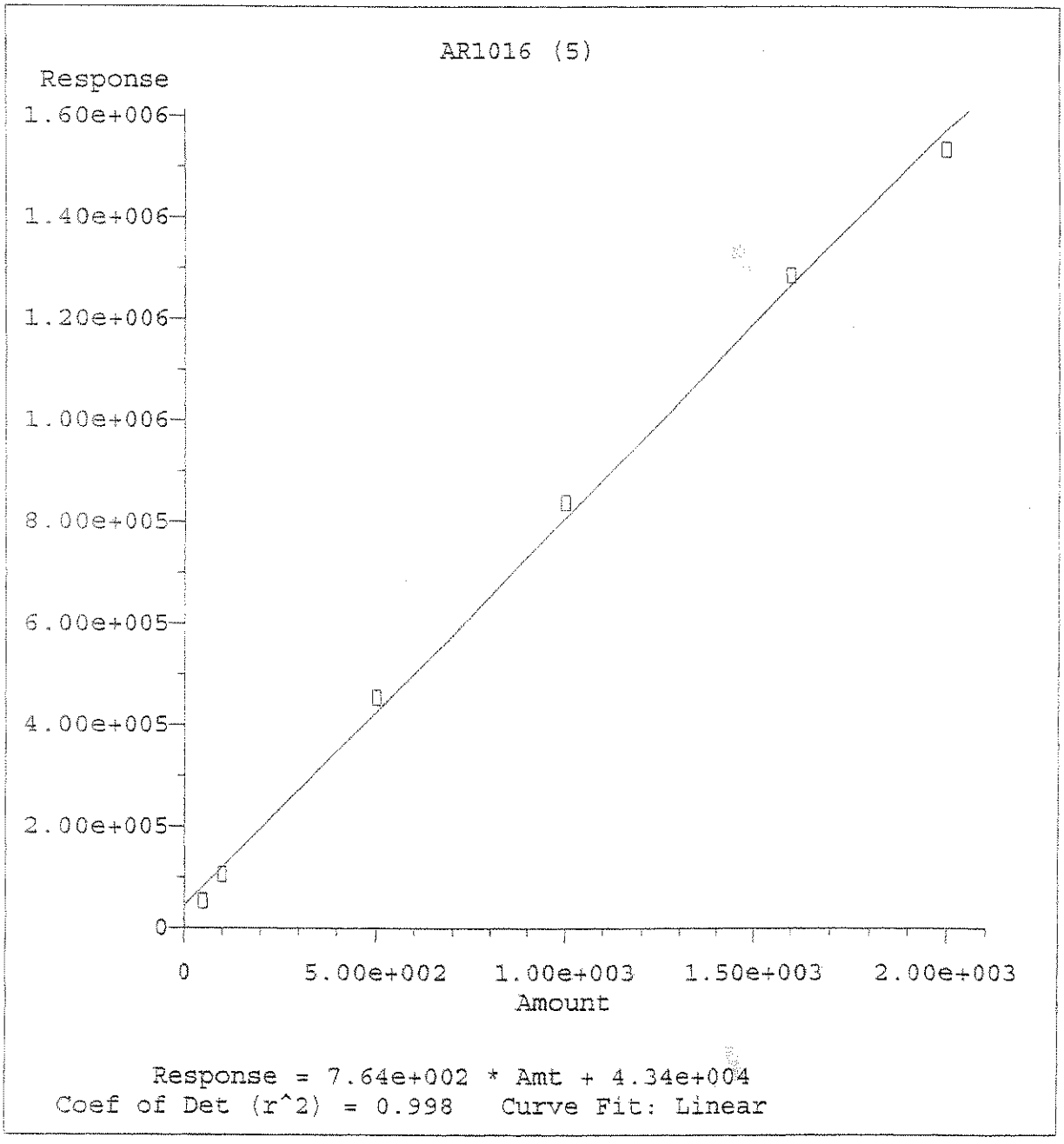
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



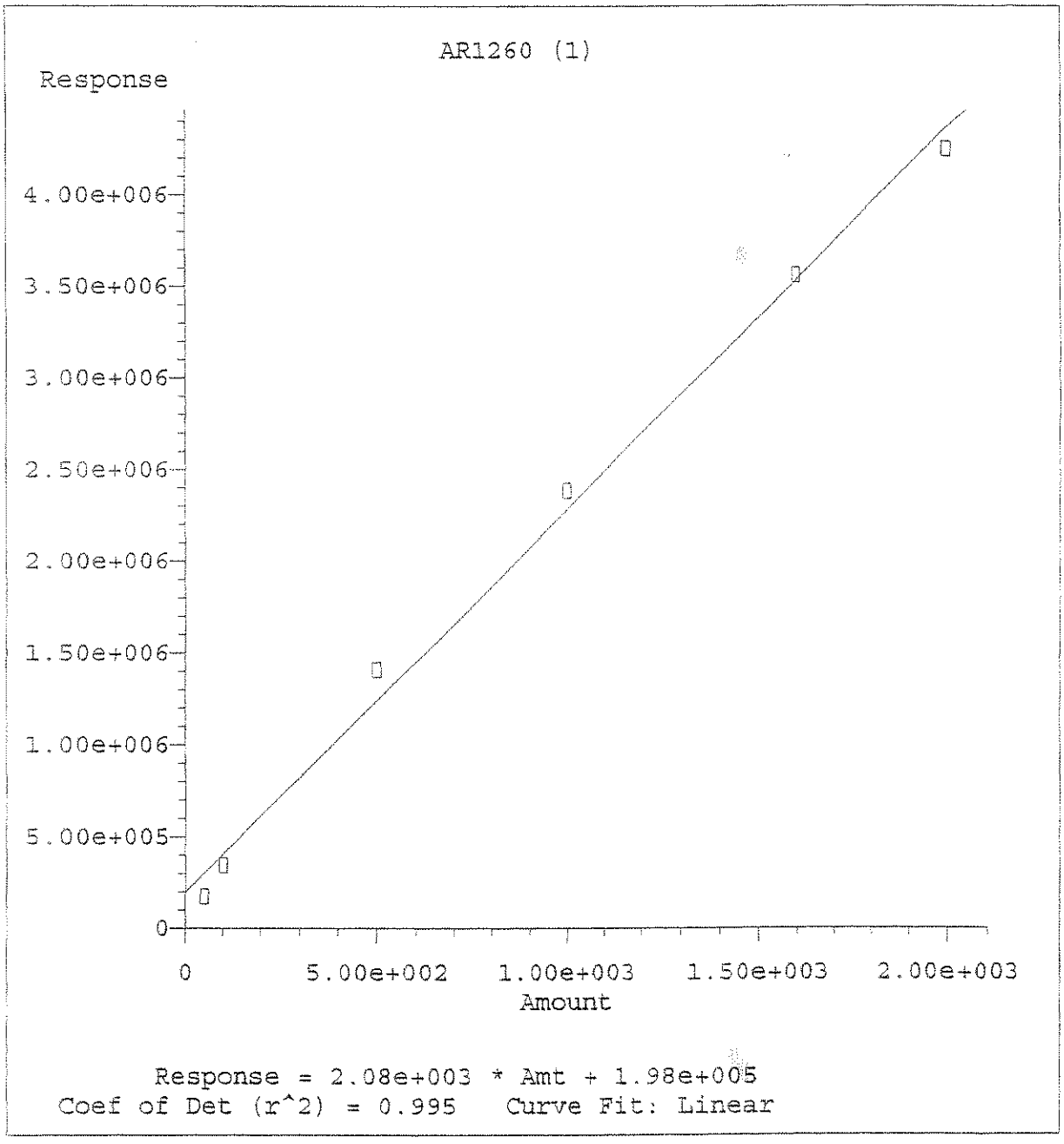
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



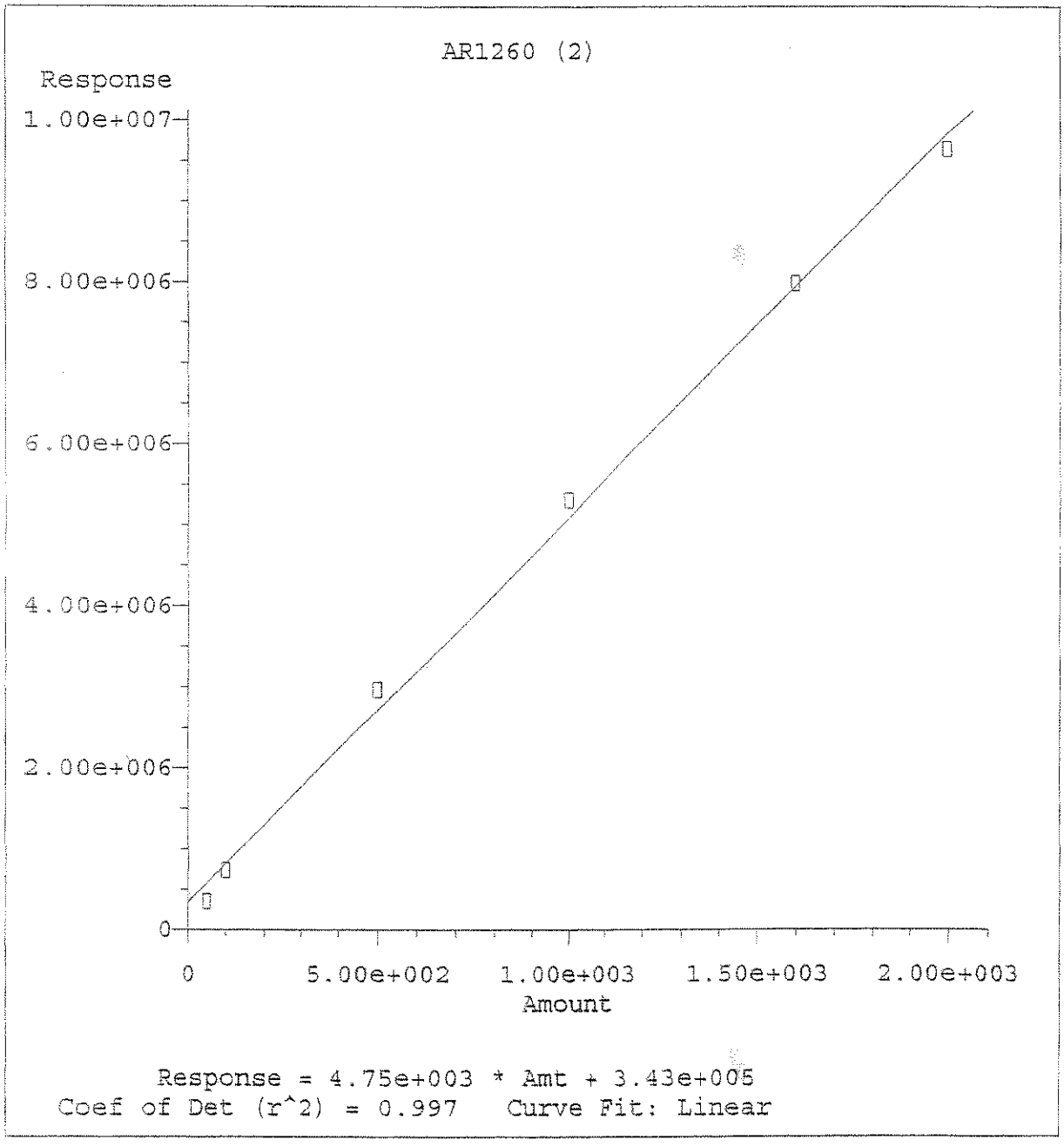
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



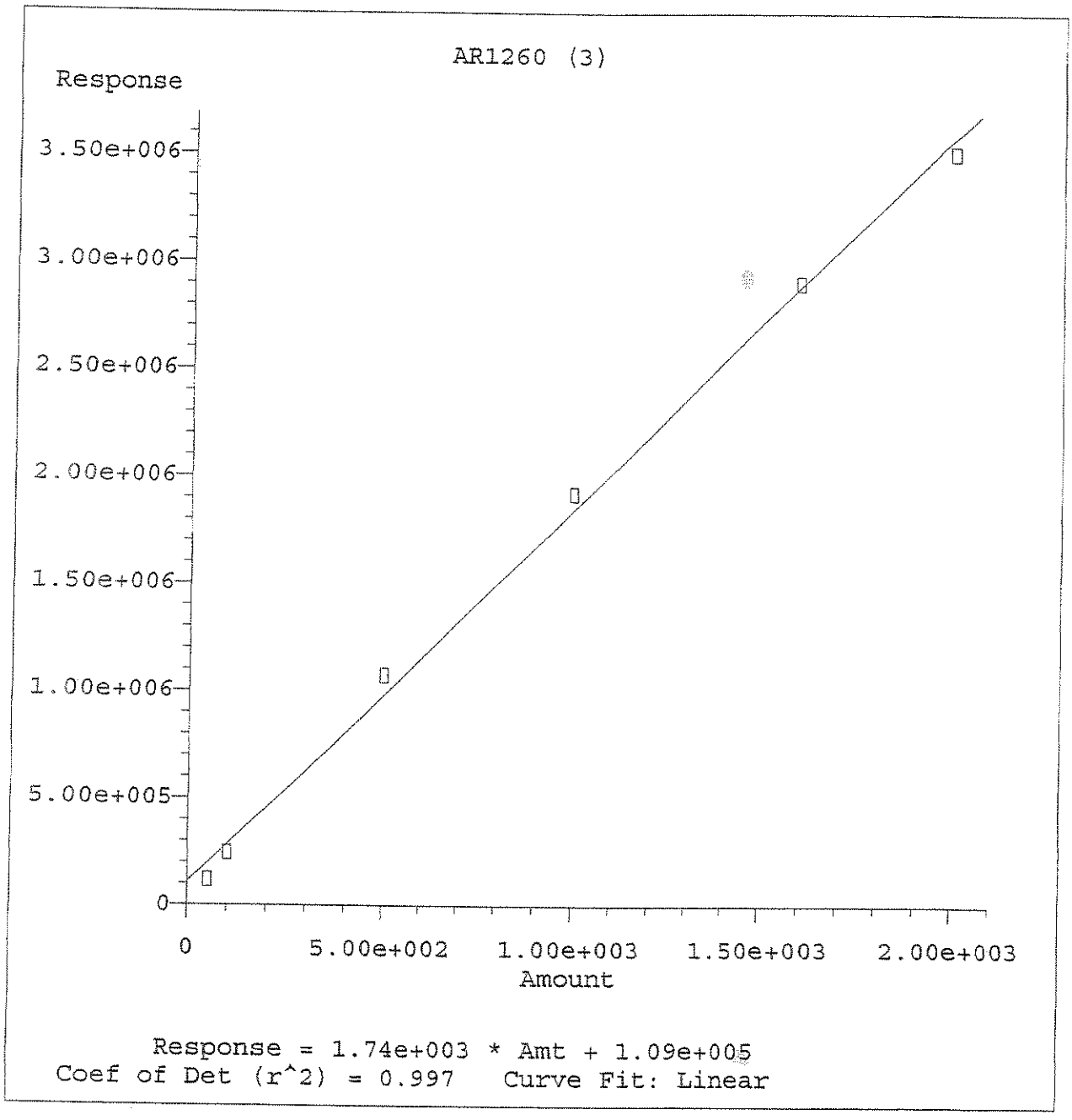
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



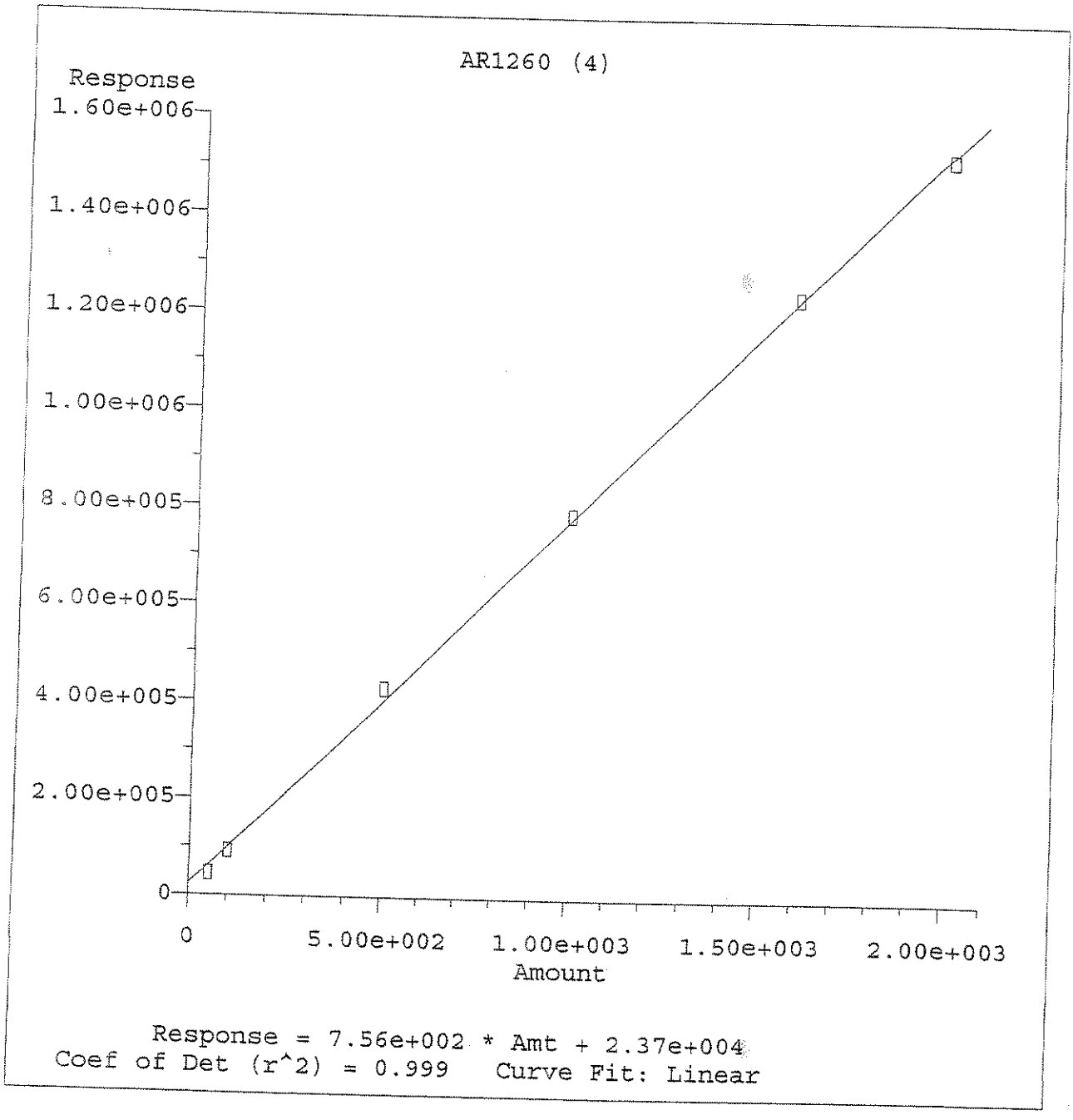
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



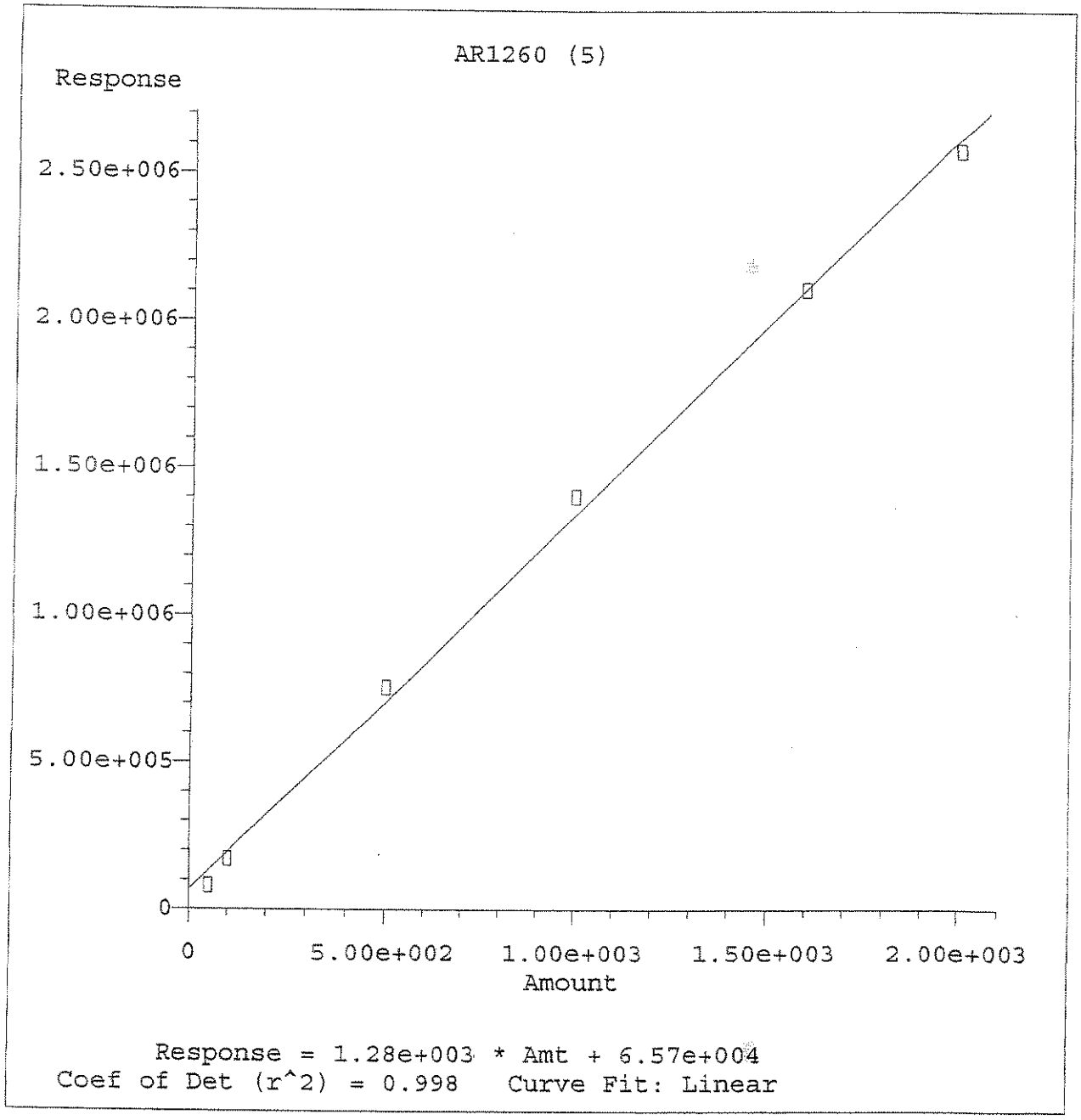
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



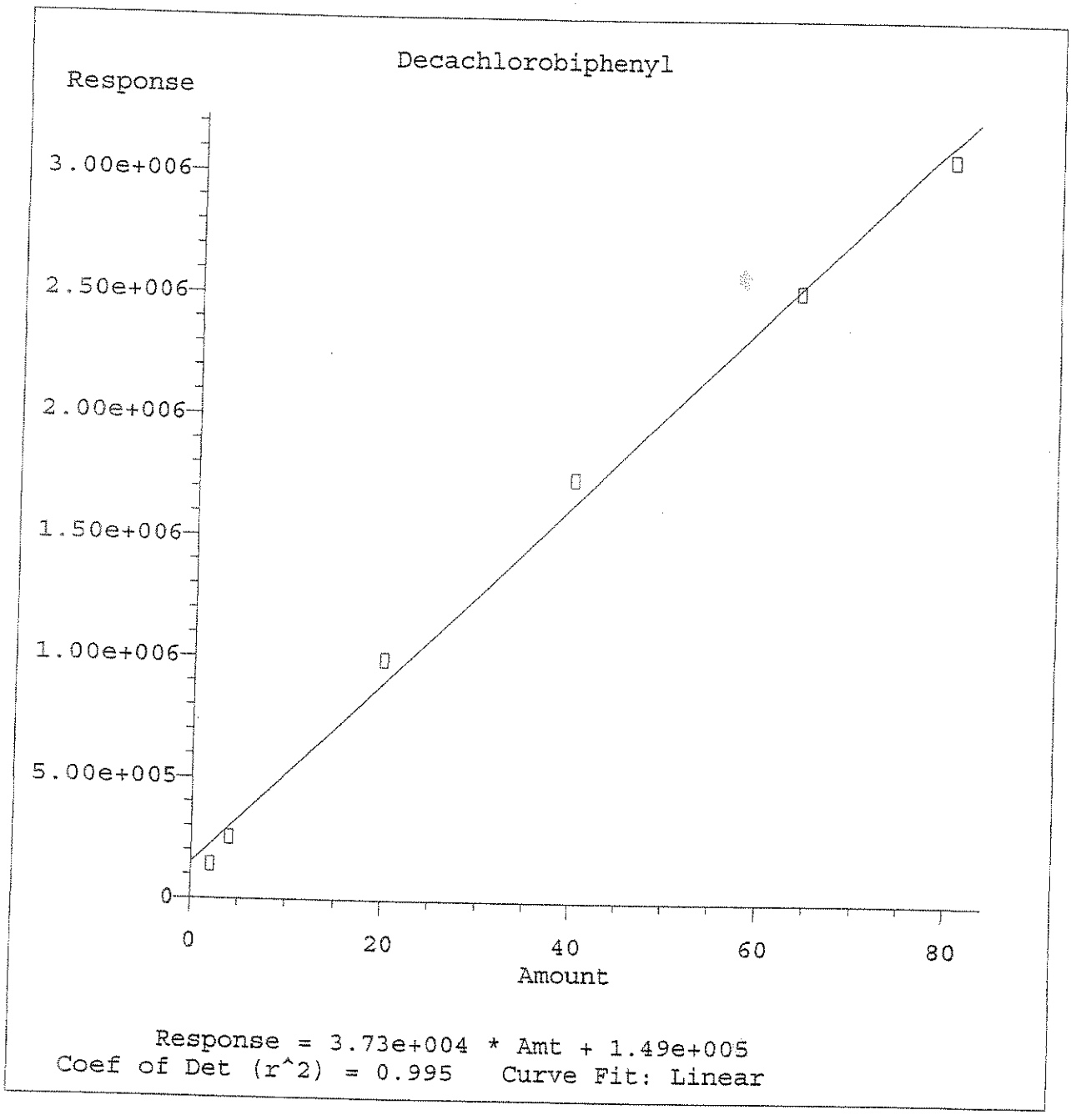
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



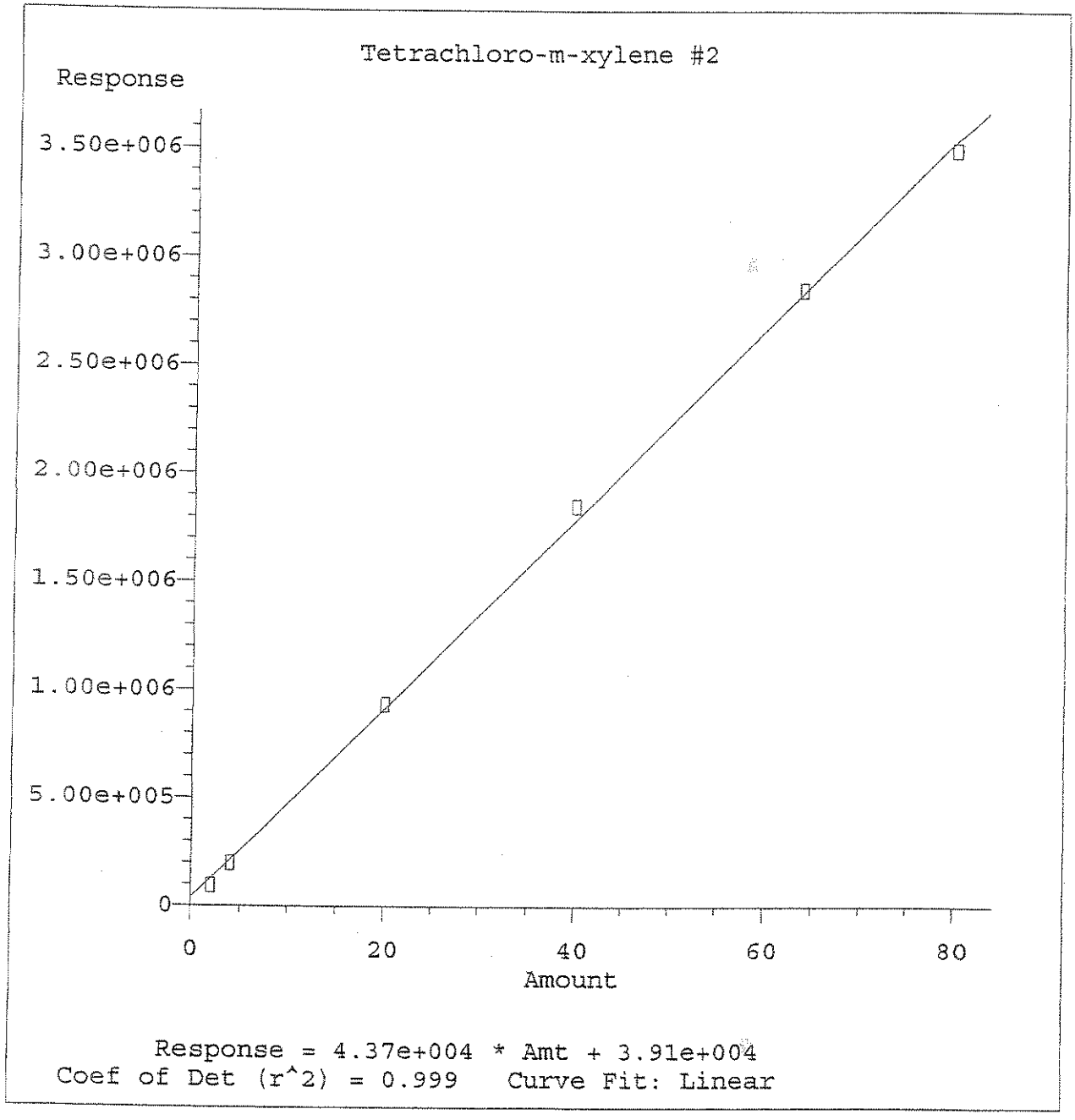
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



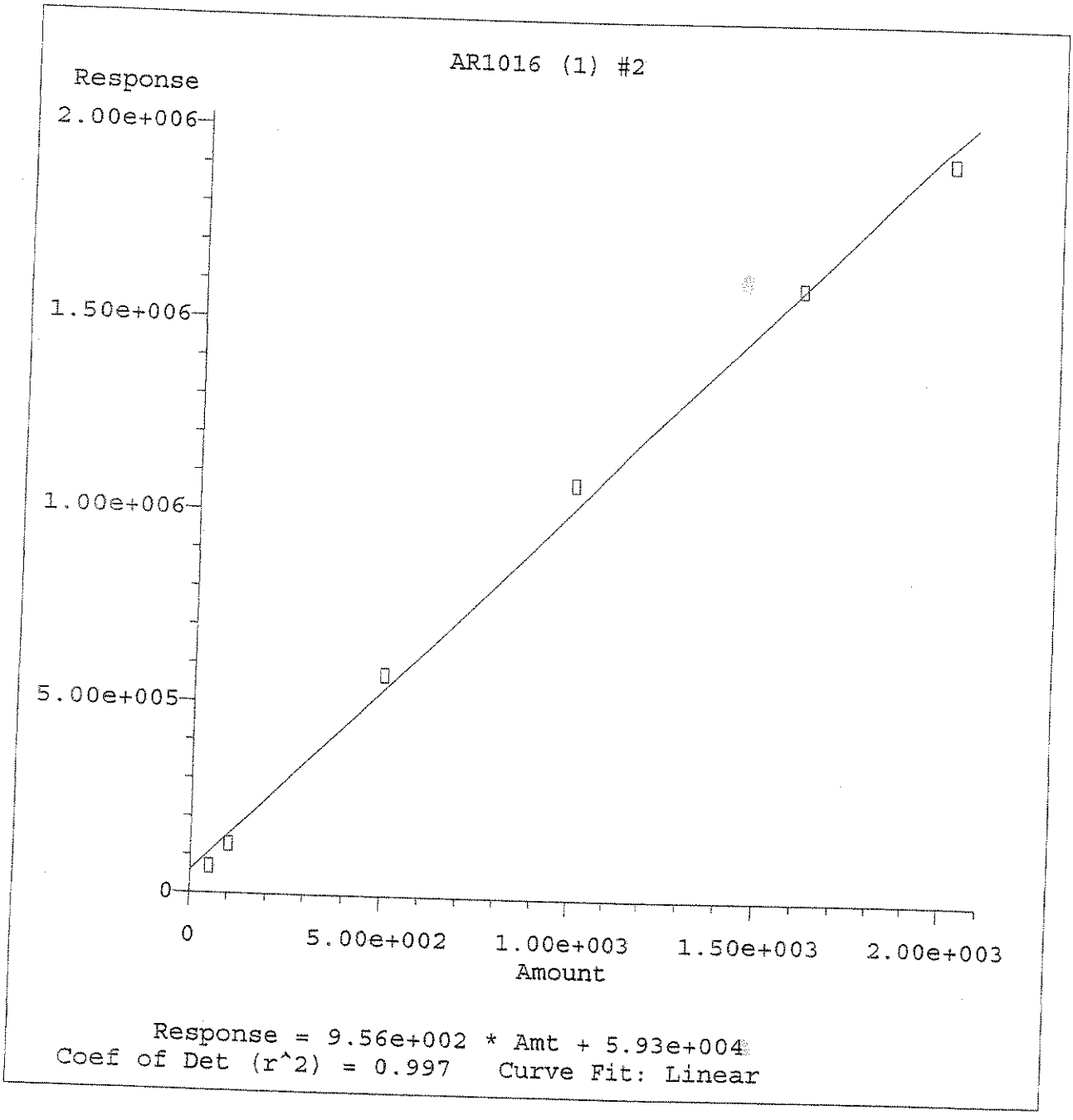
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



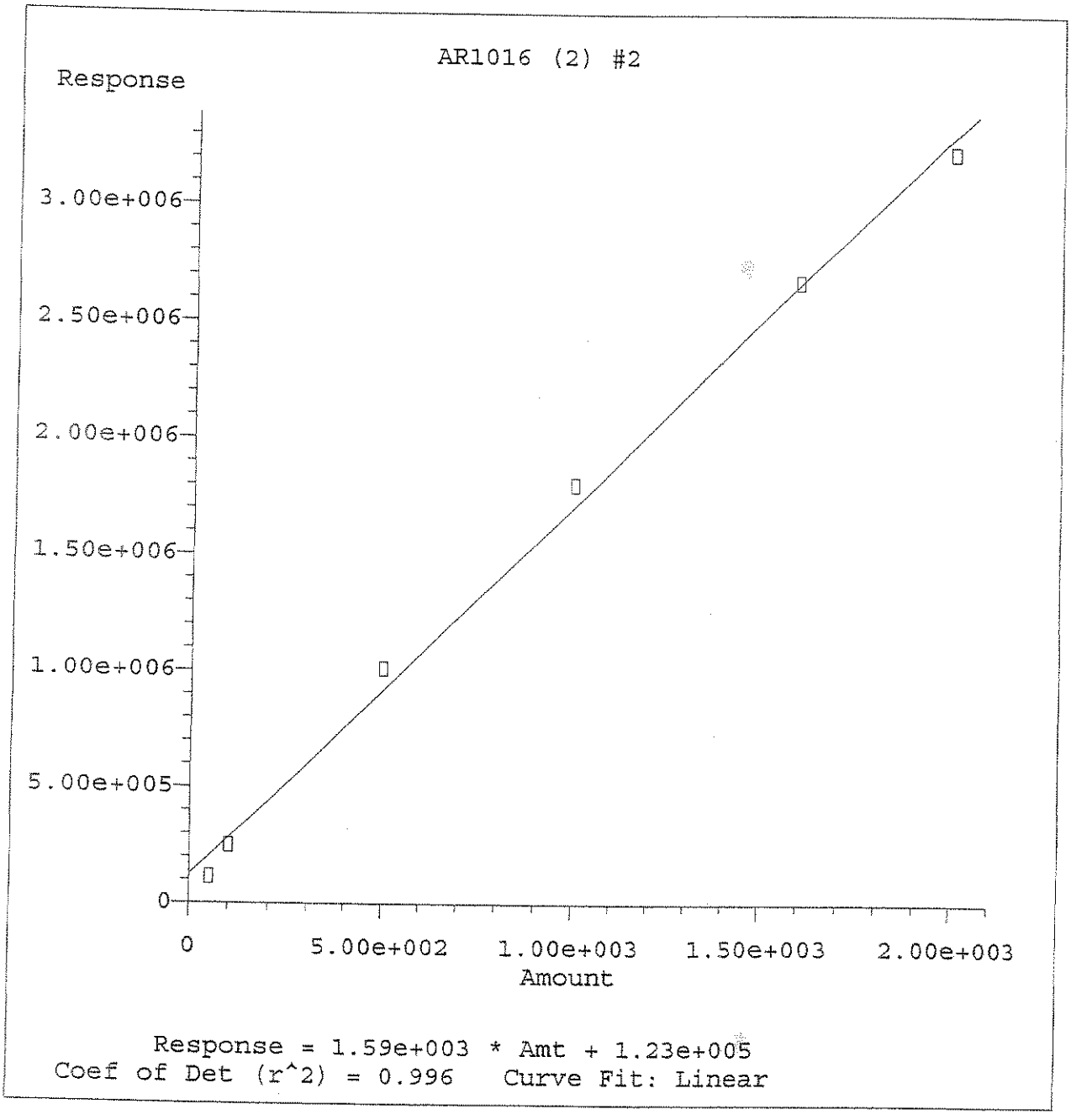
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



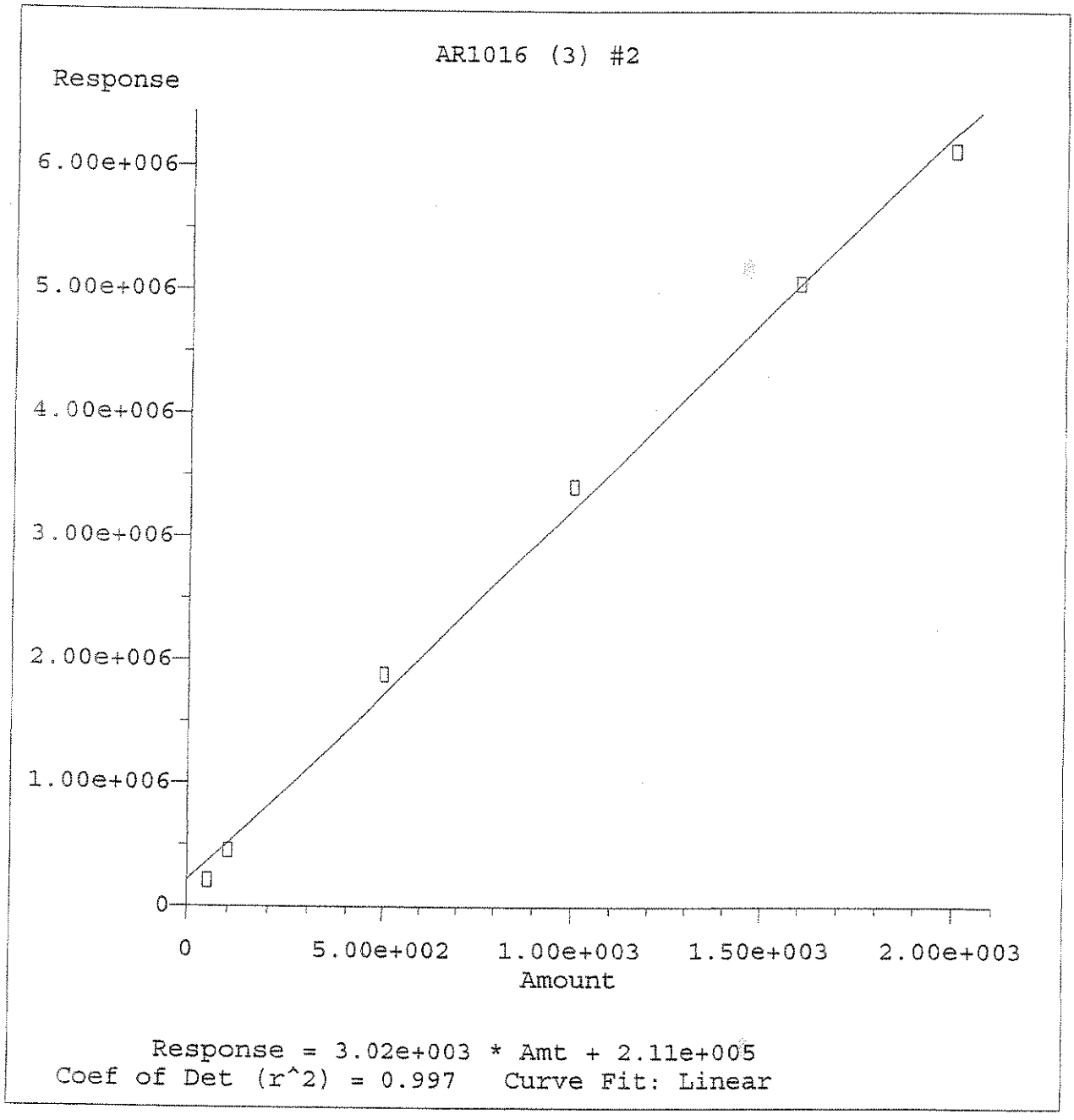
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



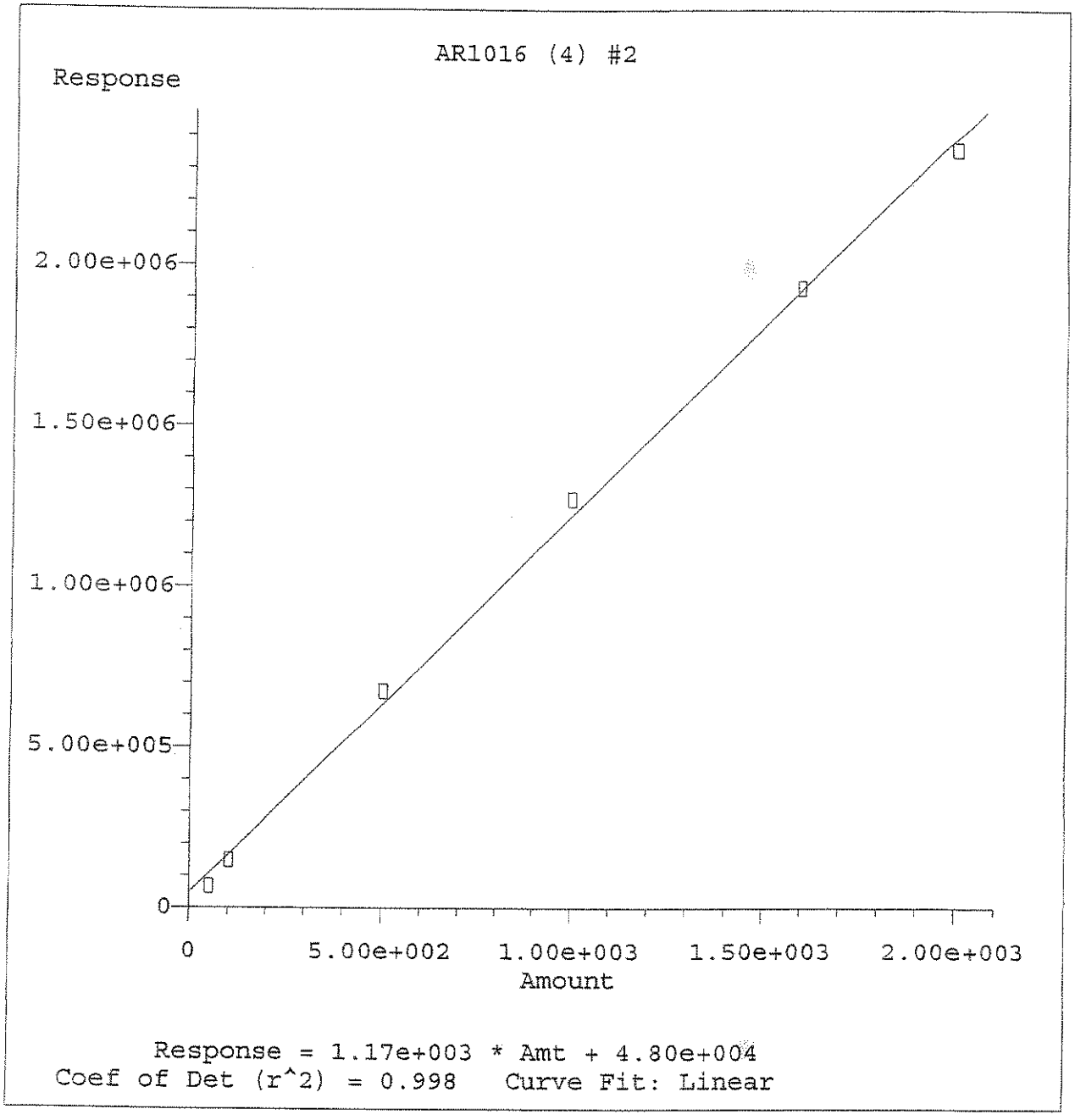
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



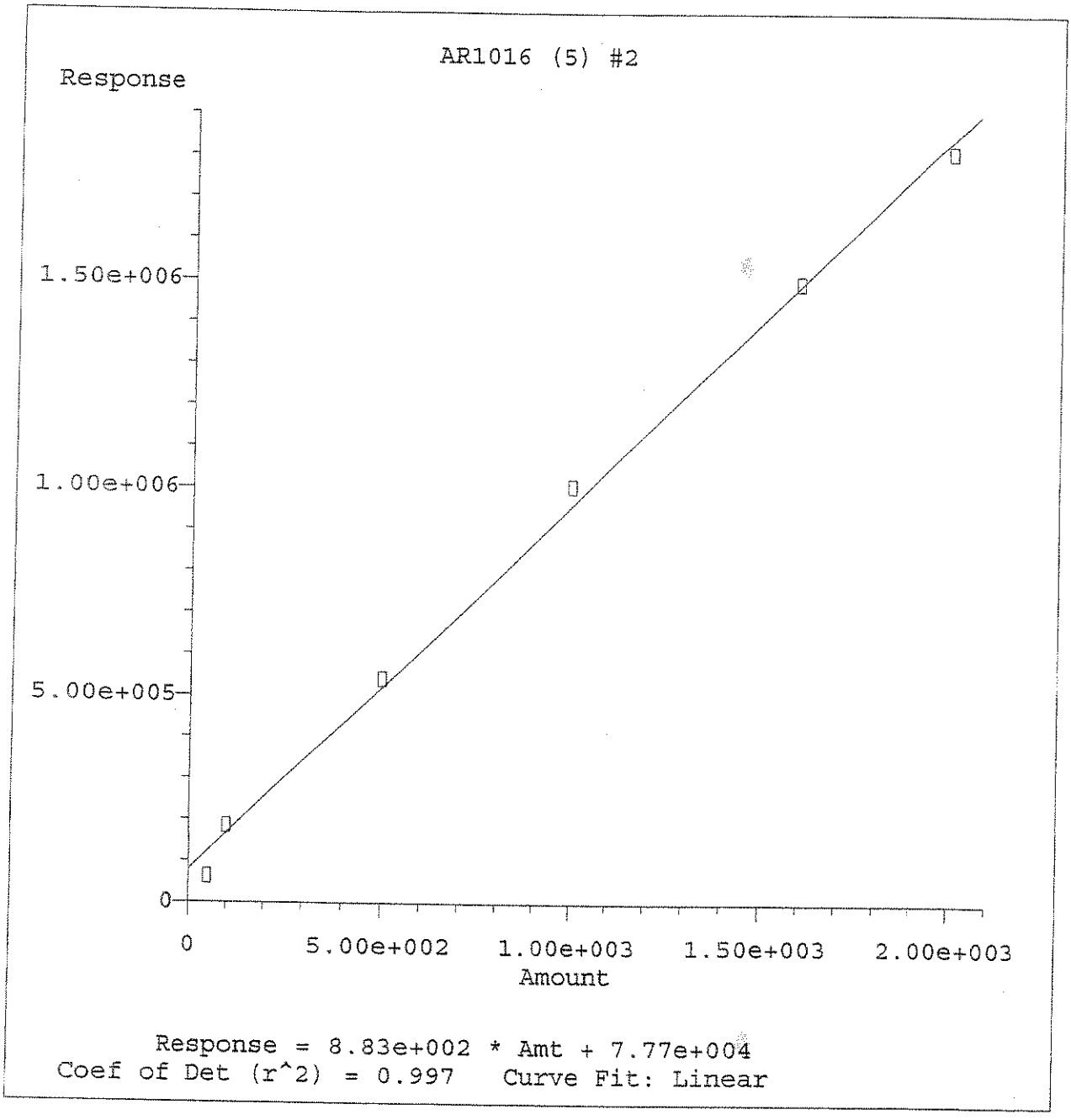
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



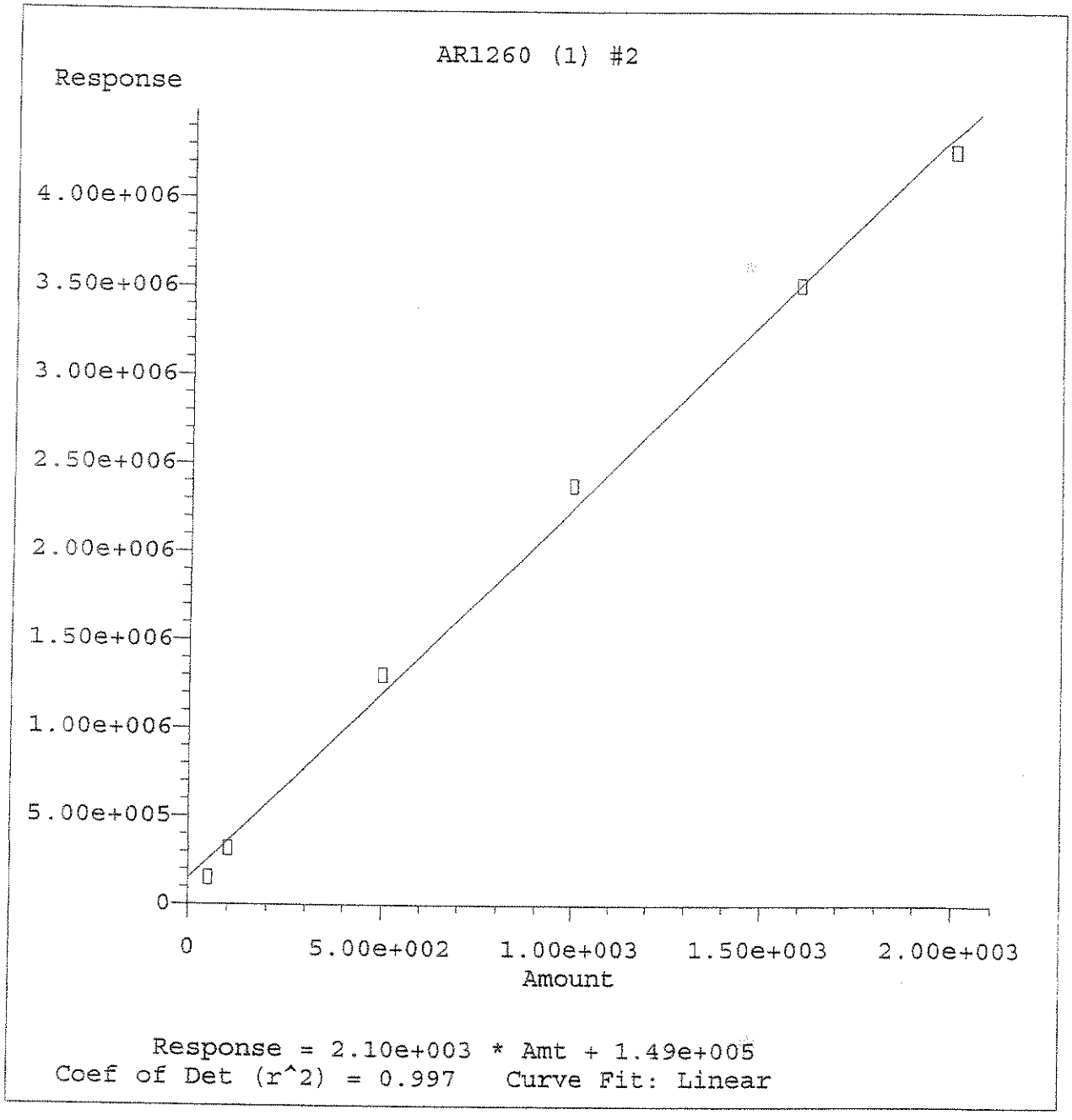
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



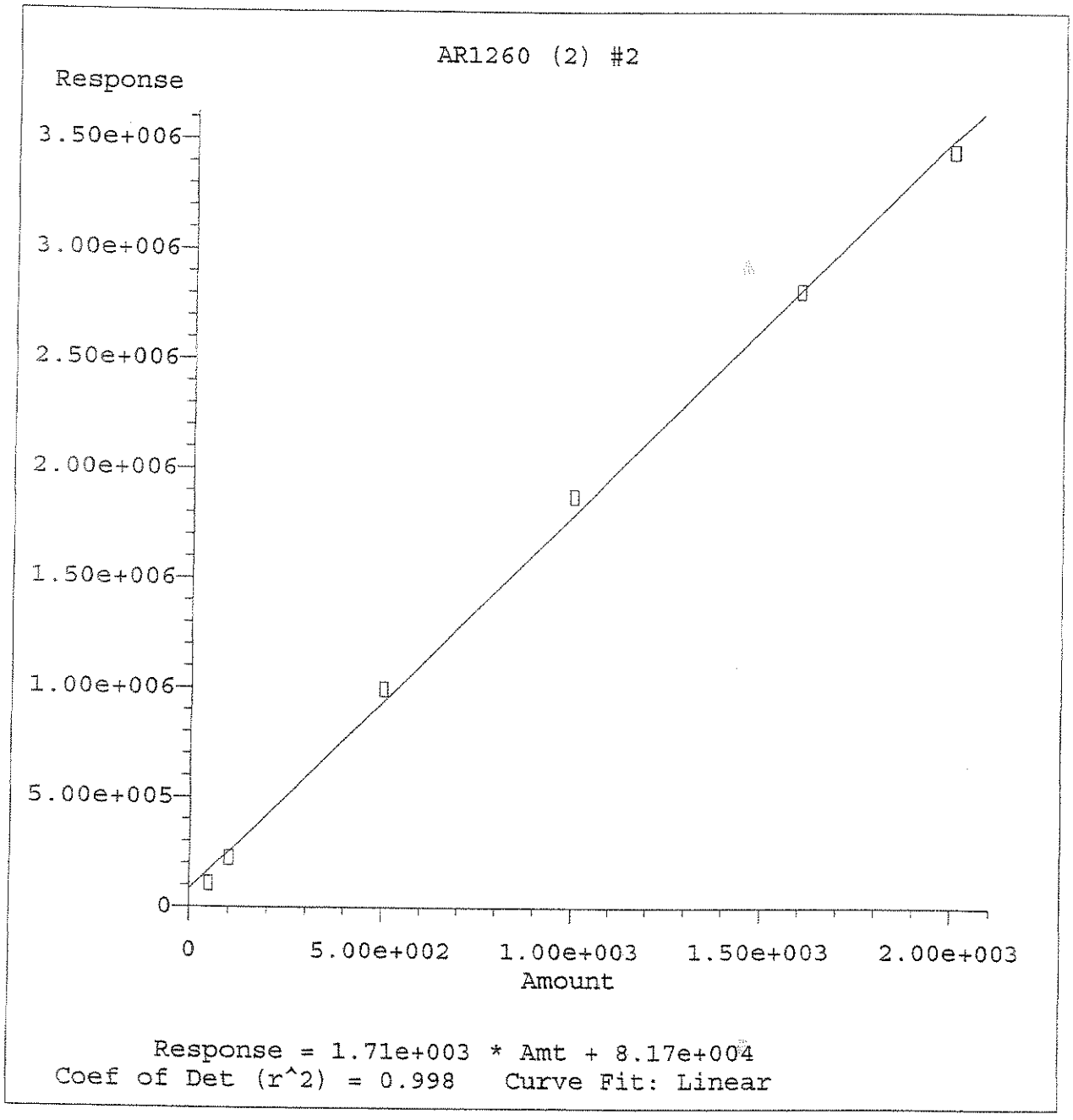
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



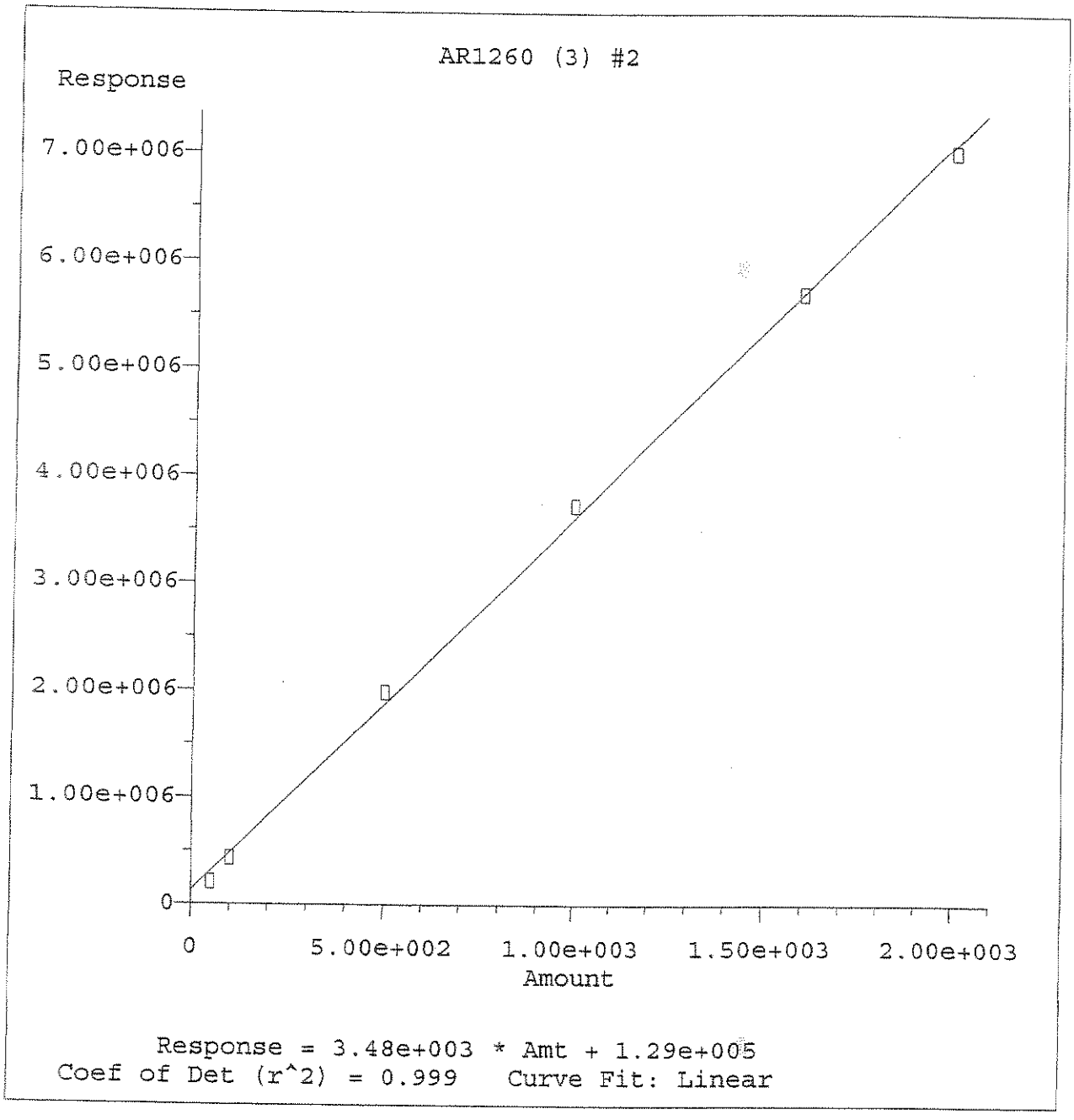
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



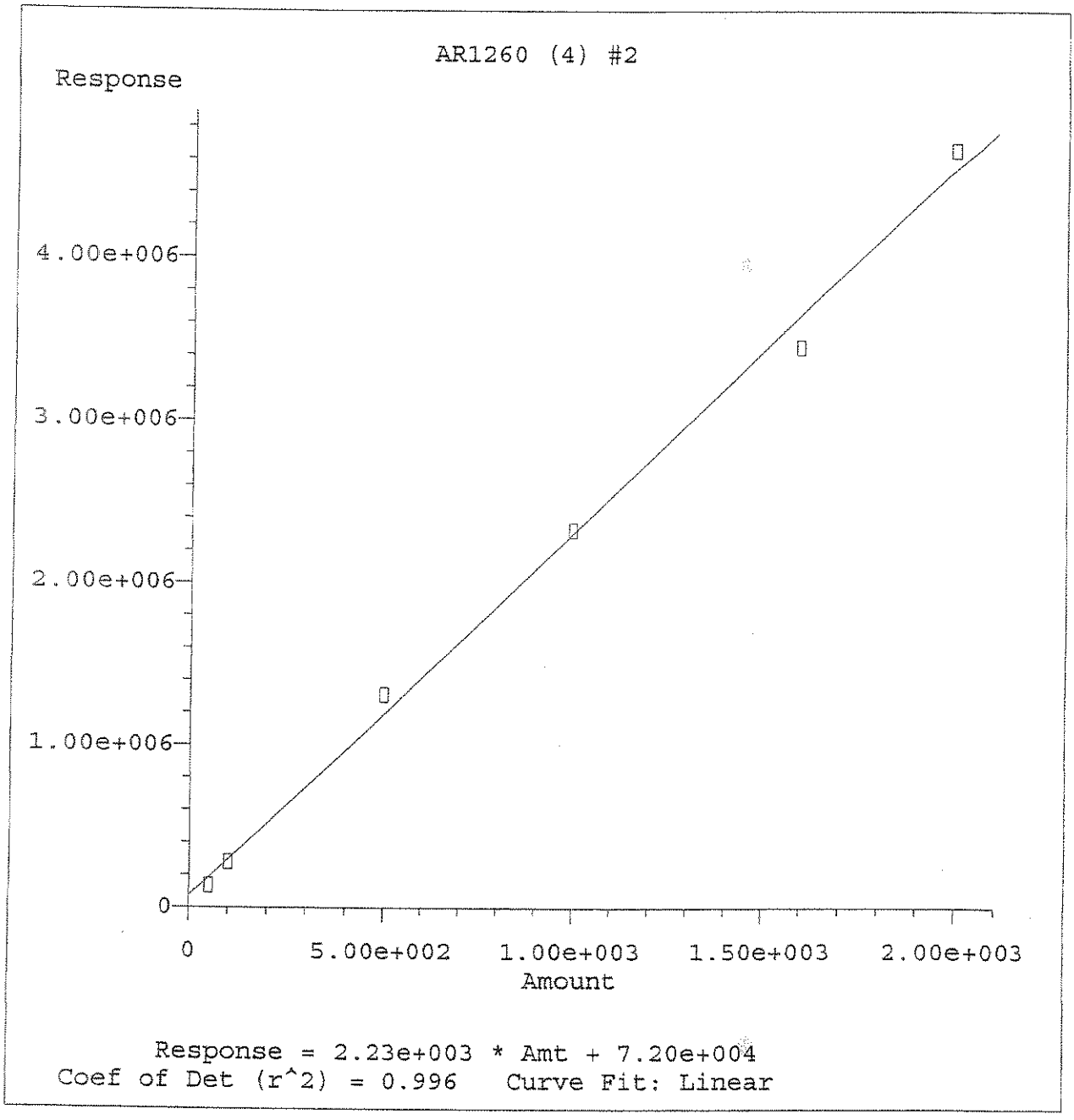
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



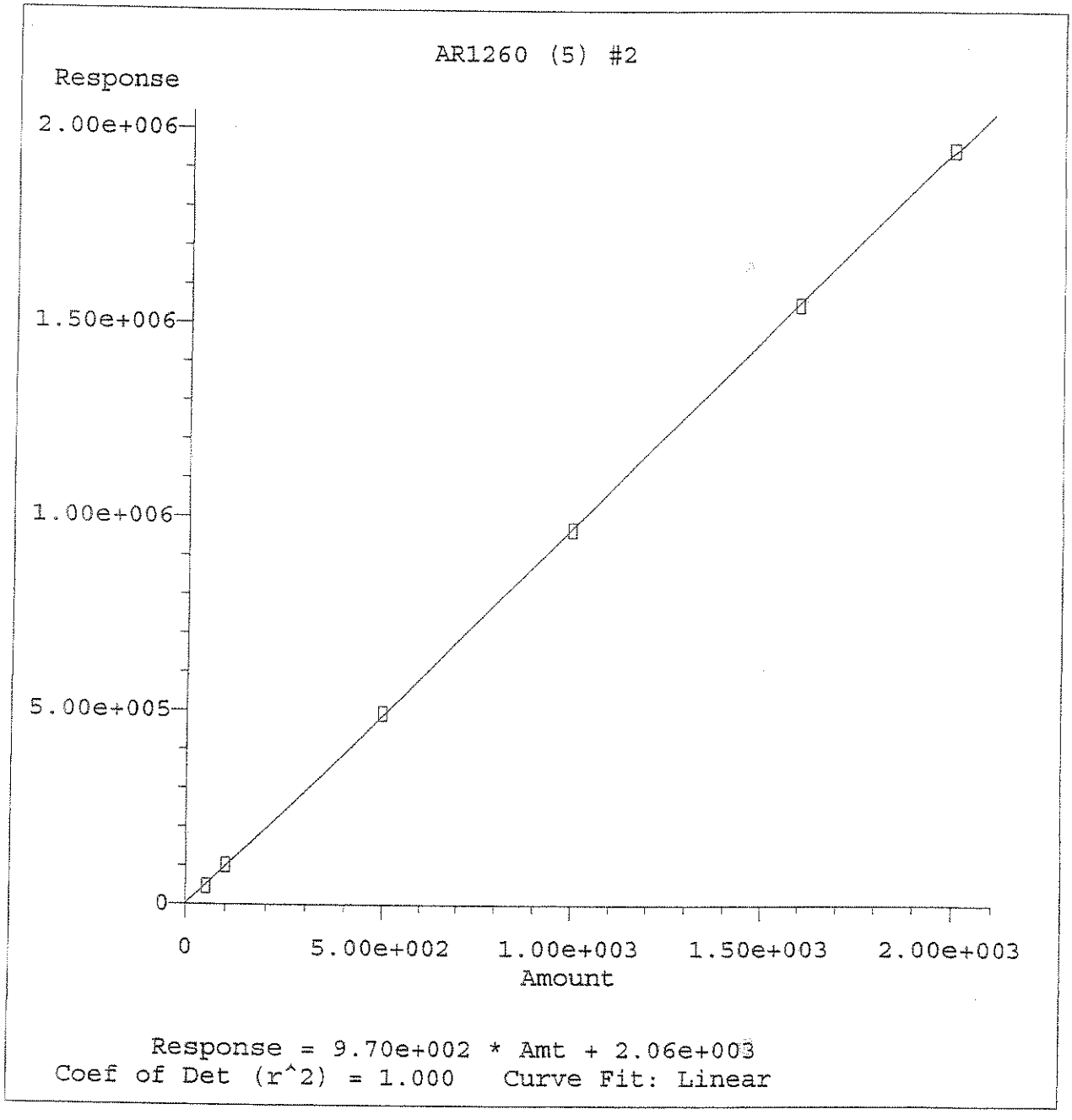
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



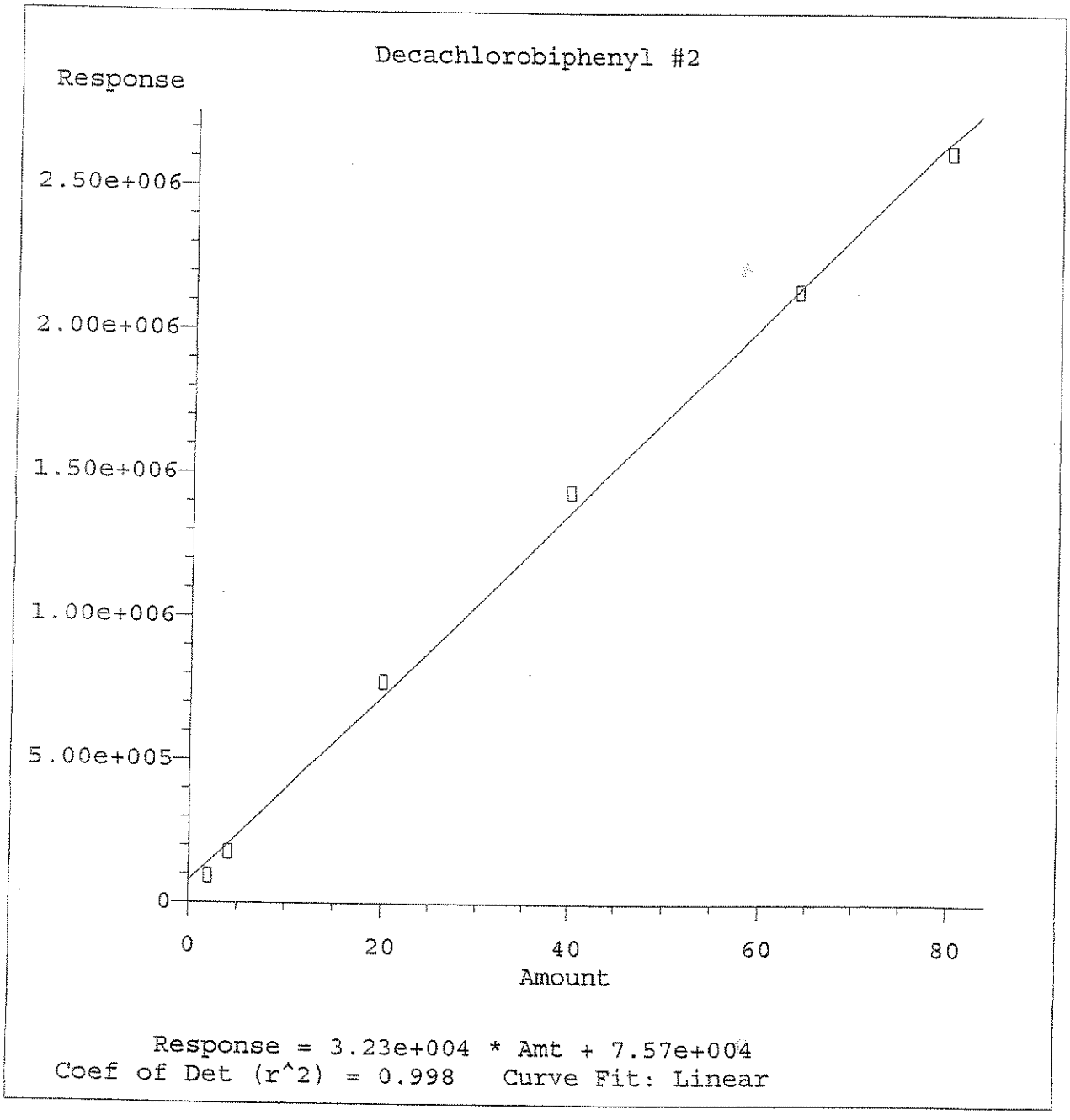
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006

ANALYSIS SEQUENCE

BPG0137

Instrument: SVOAGC5

Calibnration ID: UNASSIGNED 8082 CV

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0137-CCV1	QC		1		6F14039		
BF60801-BLK1	QC		2				
BF60801-BS1	QC		3				
BF60801-BSD1	QC		4				
BPG0137-CCV2	QC		5		6F14039		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II **Y-Split Dual End**

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/10/6	77	6F06106-77	0606113-16	8082CV	✓	[illegible]
	78	-78	0606113-17		✓	
	79	-79	-17MS		✓	
	80	-80	-17MSD		✓	
6/10/6	96	-96	Hex	8082CV		[illegible]
	97	-97	1660		✓ 6F09099 INJ 1645	
	98	-98	1242		50	
	99	-99	1248		57	
	100 ~~980~~	-100	1254		52	
6/11/6	97	6F06106-97	1660		✓ 6F09099	
6/12/6	1	6F06126-01	Hex	8082CV		[illegible]
	2	-02	1660 ✓		✓ 6F14039 CCV1 05:35AM	
	3	-03	1242		40	
	4	-04	1248		41	
	5	-05	1254		~~[illegible]~~ 6F14042	
	6	-06	BF60734-BS1 ✓	8082CV ✓		[illegible]
	7	-07	BF60801-BLK1			
	8	-08	-BS1 ✓			
	9	-09	-BSD1 ✓			
	10	-10	0606076-01 [illegible]		ND	
	~~11~~ 11	-11	-01MS ✓			
	12	-12	-01MSD			
	13	-13	BF60734-BLK1 ✓			
	14	-14	-BSD1			
	15	-15	0606118-03 ✓		ND	
	16	-16	0606076-02 ✓		ND	
	17	-17	-03 ✓		ND	
	18	-18	-04 ✓		ND	
	19	-19	-05 ✓		ND	
6/12/06	20	6F06126-20	-06 ✓	8082CV	ND	[illegible]

CONTROL NUMBER 60.0031-0603A PAGE________

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ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II

Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
9/12/12	21	G6061212-21	0606-7807 ✓	8082CC ✓	P	
	22	-22	-08 ✓		ND	M
	~~23~~ 96	-96	Hex			
	~~24~~ 97	-97	1660CC ✓		6F14039 INJ 1817 CCV	
	~~25~~ 98	-98	1242CC		40	
	~~26~~ 99	-99	~~1248CC~~ 1254CC		41	
	~~27~~ 100	-100	~~1254CC~~ 1248CC		42 INJ 1912	
	~~27~~ 97	-97	1660CC		6F14039	
	28	-28	G606129-15 ~~BG62 1109-BLK~~		✓	
	29	-29	G606129-19 ~~-BS1~~		✓ 60	
	30	-30	G606129-20 ~~-BSD1~~		✓	
	31	-31	G606130-01		✓	
	32	-32	-02		✓ 60	
	33	-33	-03		✓ 60	
	34	-34	-04		✓ 60	
	35	-35	-05		✓ 60	
	36	-36	-06		✓ 60	
	37	-37	-07		✓ 60	
	38	-38	-08		✓ 98 / 60	
	39	-39	-09		✓ (RR2x)	
	40	-40	-10		✓ 54	
	41	-41	-11		✓	
	42	-42	-12		✓ 54	
	43	-43	-13		✓	
	44	-44	-14		✓ 54	
	45	-45	-15		✓ 54	
	46	-46	-16		✓ (BRICK)	
	47	-47	-17		✓	
	~~23~~ 96	-96	Hex		✓	
	~~24~~ 97	G6061206-97	1660CC	8082CC	✓ 6F14039 INJ 0211	M

ROL NUMBER 60.0031-0603A

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PAGE_______

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG061206\002F0101.D Vial: 2
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG061206\002F0101.D\002R0101.D
Acq On : 12 Jun 06 05:35 AM Operator: [GC]2R0101.I
Sample : 1660 CCV1 (1000) Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jun 13 10:07 19106

Method : Q:\SVOA\GC5_GG\METHODS\8082CV.M
Title :
Last Update : Mon Jun 12 11:46:17 2006
Response via : Multiple Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xylen	3.65	5.25	1995534	1748909	40.710	39.119
				Recovery	=	81.42%	78.24%
2)	S Decachlorobiphenyl	9.93	12.30	1761354	1465207	43.239	43.023
				Recovery	=	86.48%	86.05%
	Target Compounds						
2)	LM1 AR1016 (1)	4.17	5.95	996140	988991	998.327	972.527
3)	LM1 AR1016 (2)	4.64	6.48	1716839	1650655	1016.528	963.183
4)	LM1 AR1016 (3)	5.21	7.05	3241412	3270601	1000.967m	1012.266
5)	LM1 AR1016 (4)	5.95	7.34	941737	1191125	1026.406	974.566
6)	LM1 AR1016 (5)	6.28	7.77	795823	961295	984.911	1001.095
	Total AR1016 (1)			7691951	8062667	5027.139	4923.638
	verage AR1016 (1)					1005.428	984.728
7)	LM2 AR1260 (1)	7.19	9.42	2313459	2254325	1015.800	1001.134
8)	LM2 AR1260 (2)	8.49	10.23	5686925	1745303	1125.824	973.504
9)	LM2 AR1260 (3)	8.87	10.50	1957009	3553280	1064.874	983.431
0)	LM2 AR1260 (4)	9.17	10.89	805841	2239526	1034.389	970.597m
1)	LM2 AR1260 (5)	9.43	11.54	1442265	964213	1078.876	991.847
	Total AR1260 (1)			12205499	10756647	5319.763	4920.514
	verage AR1260 (1)					1063.953	984.103

6/13/06

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG061206\097F0201.D Vial: 97
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG061206\097F0201.D\097R0201.D
Acq On : 12 Jun 06 06:17 PM Operator: [GC]7R0201.I
Sample : 1660 CC CCV (1000) Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jun 13 11:07 19106

Method : Q:\SVOA\GC5_GG\METHODS\8082CV.M
Title :
Last Update : Mon Jun 12 11:46:17 2006
Response via : Multiple Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xylen	3.64	5.24	2063736	1845981	42.168	41.340
Recovery =					84.34%	82.68%
.2) S Decachlorobiphenyl	9.91	12.29	1700552	1451450	41.609	42.597
Recovery =					83.22%	85.19%
Target Compounds						
2) LM1 AR1016 (1)	4.17	5.94	1030992	1057280	1035.636	1043.960
3) LM1 AR1016 (2)	4.63	6.47	1789347	1707103	1063.478	998.772
4) LM1 AR1016 (3)	5.20	7.04	3545616	3440478	1103.102m	1068.478
5) LM1 AR1016 (4)	5.94	7.33	984780	1238544	1076.127	1014.992
6) LM1 AR1016 (5)	6.27	7.75	812267	1000135	1006.436	1045.100
Total AR1016 (1)			8163001	8443541	5284.779	5171.303
verage AR1016 (1)					1056.956	1034.261
7) LM2 AR1260 (1)	7.18	9.40	2348792	2244253	1032.767	996.344
8) LM2 AR1260 (2)	8.48	10.22	5489342	1718299	1084.201	957.702
9) LM2 AR1260 (3)	8.86	10.48	1816959	3612258	984.184	1000.369
0) LM2 AR1260 (4)	9.16	10.88	798462	2310748	1024.630	1002.490m
1) LM2 AR1260 (5)	9.42	11.52	1419068	972020	1060.696	999.896
Total AR1260 (1)			11872624	10857578	5186.479	4956.801
verage AR1260 (1)					1037.296	991.360

6/13/06

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ANALYSIS SEQUENCE

BPG0134

Instrument: SVOAGC6

Calibnration ID: UNASSIGNED 8082_6CI

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0134-CAL1	QC 1660 50		1		6F14043		
BPG0134-CAL2	QC 1660 100		2		6F14044		
BPG0134-CAL3	QC 1660 500		3		6F14045		
BPG0134-CAL4	QC 1660 1000		4		6F14046		
BPG0134-CAL5	QC 1660 1600		5		6F14047		
BPG0134-CAL6	QC 1660 2000		6		6F14048		
BPG0134-SCV1	QC 1660 SCV		7		6F14049		
BPG0134-CAL7	QC 1221		8		6F14051		
BPG0134-SCV2	QC 1221 SCV		9		6F14052		
BPG0134-CAL8	QC 1232		10		6F14053		
BPG0134-SCV3	QC 1232 SCV		11		6F14054		
BPG0134-CAL9	QC 1242		12		6F14055		
BPG0134-SCV4	QC 1242 SCV		13		6F14056		
BPG0134-CALA	QC 1248		14		6F14057		
BPG0134-SCV5	QC 1248 SCV		15		6F14058		
BPG0134-CALB	QC 1254		16		6F14059		
BPG0134-SCV6	QC 1254 SCV		17		6F14060		
BPG0134-CALC	QC 1262		18		6F14061		
BPG0134-SCV7	QC 1262 SCV		19		6F14062		
BPG0134-CALD	QC 1268		20		6F14063		
BPG0134-SCV8	QC 1268 SCV		21		6F14064		

Samples Loaded By Date

Data Processed By Date

Response Factor Report SVOA_GC6

Method : C:\MSDCHEM\1\METHODS\8082_6CI.M (Chemstation Integrator)
Title :
Last Update : Thu Jun 22 16:06:16 2006

Calibration Files
100 =GH025496.D 50 =GH025495.D 500 =GH025497.D
1000 =GH025733.D 1600 =GH025499.D 2000 =GH025500.D

Used Average RF

		Compound	100	50	500	1000	1600	2000	Avg		%RSD
1)	S	Tetrachloro-m-xy	9.455	8.570	9.310	9.252	9.284	9.211	9.180	E7	3.38
2)	LM1	AR1016 (1)	2.054	1.939	1.613	1.550	1.437	1.503	1.683	E6	15.00
3)	LM1	AR1016 (2)	3.661	4.360	3.032	2.928	2.785	2.755	3.254	E6	19.50
4)	LM1	AR1016 (3)	5.271	5.972	4.279	4.305	4.237	4.209	4.712	E6	15.68
5)	LM1	AR1016 (4)	2.146	2.174	2.111	2.147	2.090	2.074	2.124	E6	1.81
6)	LM1	AR1016 (5)	1.244	1.258	1.135	1.132	1.120	1.153	1.174	E6	5.21
7)	LM2	AR1260 (1)	4.072	4.505	4.013	4.022	3.999	4.039	4.108	E6	4.77
8)	LM2	AR1260 (2)	2.145	2.183	2.250	2.280	2.311	2.360	2.255	E6	3.55
9)	LM2	AR1260 (3)	9.185	9.828	9.472	9.608	9.835	8.208	9.356	E6	6.55
10)	LM2	AR1260 (4)	4.639	4.774	4.710	4.788	4.770	3.955	4.606	E6	7.03
11)	LM2	AR1260 (5)	2.160	2.027	2.098	2.066	2.084	2.081	2.086	E6	2.10
12)	S	Decachlorobiphen	7.252	7.137	7.048	6.910	6.949	6.761	7.010	E7	2.49

Signal #2 Calibration Files
100 =GH025496.D 50 =GH025495.D 500 =GH025497.D
1000 =GH025733.D 1600 =GH025499.D 2000 =GH025500.D

Used Ave RF

		Compound	100	50	500	1000	1600	2000	Avg		%RSD
1)	S	Tetrachloro-m-xy	1.029	1.000	1.040	1.039	1.045	1.061	1.035	E8	1.97
2)	LM1	AR1016 (1)	1.884	1.839	1.753	1.635	1.726	1.789	1.771	E6	4.96
3)	LM1	AR1016 (2)	3.853	3.761	3.486	3.524	3.315	3.330	3.545	E6	6.24
4)	LM1	AR1016 (3)	2.957	2.847	2.841	2.931	2.952	2.899	2.904	E6	1.76
5)	LM1	AR1016 (4)	2.321	2.434	2.250	2.255	2.207	2.216	2.281	E6	3.74
6)	LM1	AR1016 (5)	1.289	1.167	1.240	1.188	1.201	1.179	1.210	E6	3.79
7)	LM2	AR1260 (1)	3.455	3.588	3.333	3.158	3.425	3.429	3.398	E6	4.22
8)	LM2	AR1260 (2)	2.595	2.542	2.403	2.459	2.458	2.487	2.491	E6	2.74
9)	LM2	AR1260 (3)	5.351	5.380	5.260	5.430	5.488	5.572	5.414	E6	2.01
10)	LM2	AR1260 (4)	3.372	3.410	3.273	3.349	3.374	3.410	3.365	E6	1.51
11)	LM2	AR1260 (5)	1.203	1.267	1.146	1.156	1.158	1.170	1.183	E6	3.86
12)	S	Decachlorobiphen	4.420	5.395	4.021	3.999	3.957	3.968	4.294	E7	13.22

#) = Out of Range
8082_6CI.M Wed Jul 12 16:12:06 2006 3 Page 1

ESS LABORATORY
GC 6 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID		ANALYST
	48						
	49						
	50						
	51						
	52						
	53						
	54						
	55						
	56						
	57						
	58						
	59						
	95						
	96						
	57						
	58						
	99						
	96						
6/13/06	1	GHOLM-92	186053				SB
	2	93	53				
	1	94	~~Hex~~				
	2	95	1660-50 ✓	8081CE	6F14043	CAL1	
	3	96	100 ✓		044	2	
	4	97	500 ✓		045	3	
	5	98	1000 ✓		046	4	
	6	GHOLM 99	1600 ✓		047	5	
	7	GHOST 00	2000 ✓		048	6	
	8	01	55 ✓		049	SCV1	
	9	02	55		050	—	
6/13/06	10	GHOST-03	1661 ✓	8081CD	051	CAL7	SB

CONTROL NUMBER 60.0035-0601A PAGE______

ESS LABORATORY
GC 6 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/13/06	11	6F1405T-6504	1221SS	8082CL	6F14052 SCV2	[illegible]
	12	-0605	1232		053 CAL8	
	13	-0706	1232SS		054 SCV3	
	14	-0507	1246		055 CAL9	
	15	-08	1246SS		056 SCV4	
	16	-09	1248		057 ~~CAL10~~ CALA	
	17	70	1248SS		058 SCV5	
	18	-11	1254		~~058 059~~ 059 ~~CAL11~~ CALB	
	19	-72	1254SS		060 SCV6	
	20	73	1262		061 ~~CAL12~~ CALC	
	21	74	1262SS		062 SCV7	
	22	75	1268		063 ~~CAL13~~ CALD	
	23	76	1268SS		6F14064 SCV8	
	24	-17	0606075-01		74/60 S4	
	25	-18	-02		S4	
	26	-19	-03		ND	
	27	-20	-04		RR/40 S4/60	
	28	-21	-05		RR/40 S4/10	
	29	-22	-05MS		RR/~~40~~ 35 60	
	30	-23	-05MSD		RR/~~40~~ 35 70	
	31	-24	-06			
	32	-25	-07		ND	
	33	-26	-08		S4	
	34	-27	-09		ND	
	35	-28	-10		ND	
	36	-29	-11		ND	
	37	-30	-12		ND	
	38	-31	-14		ND	
	39	-32	-15		ND	
6/13/06	40	6F1405T -33	-16	8082CL	ND	

CONTROL NUMBER 60.0035-0601A PAGE_______

ANALYSIS SEQUENCE

BPG0136

Instrument: SVOAGC6

Calibnration ID: UNASSIGNED 8082_6CI

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0136-CCV1	QC		1		6F14049		
BPG0136-CCV2	QC		2		6F14055		
BPG0136-CCV3	QC		3		6F14059		
0606078-01	SVOC: 8082 ppb PCB	F	4				MACTEC Engineering & Consulting, In
0606078-02	SVOC: 8082 ppb PCB	F	5				MACTEC Engineering & Consulting, In
0606078-03	SVOC: 8082 ppb PCB	F	6				MACTEC Engineering & Consulting, In
0606078-04	SVOC: 8082 ppb PCB	F	7				MACTEC Engineering & Consulting, In
0606078-05	SVOC: 8082 ppb PCB	F	8				MACTEC Engineering & Consulting, In
BF60801-MS1	QC		9				
BF60801-MSD1	QC		10				
0606078-07	SVOC: 8082 ppb PCB	F	11				MACTEC Engineering & Consulting, In
0606078-08	SVOC: 8082 ppb PCB	F	12				MACTEC Engineering & Consulting, In
0606078-09	SVOC: 8082 ppb PCB	F	13				MACTEC Engineering & Consulting, In
0606078-10	SVOC: 8082 ppb PCB	F	14				MACTEC Engineering & Consulting, In
0606078-11	SVOC: 8082 ppb PCB	F	15				MACTEC Engineering & Consulting, In
0606078-12	SVOC: 8082 ppb PCB	F	16				MACTEC Engineering & Consulting, In
0606078-14	SVOC: 8082 ppb PCB	F	17				MACTEC Engineering & Consulting, In
0606078-15	SVOC: 8082 ppb PCB	F	18				MACTEC Engineering & Consulting, In
0606078-16	SVOC: 8082 ppb PCB	F	19				MACTEC Engineering & Consulting, In
0606078-17	SVOC: 8082 ppb PCB	F	20				MACTEC Engineering & Consulting, In
BPG0136-CCV4	QC		21		6F14039		
BPG0136-CCV5	QC		22		6F14040		
BPG0136-CCV6	QC		23		6F14042		
BPG0136-CCV7	QC		24		6F14039		
BPG0136-CCV8	QC		25		6F14042		
0606078-05RE1	: 8082/3541 CLP - Army ppl	F	26				MACTEC Engineering & Consulting, In
BPG0136-CCVA	QC		27		6F14042		
BPG0136-CCV9	QC		28		6F14039		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 6 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
	48					
	49					
	50					
	51					
	52					
	53					
	54					
	55					
	56					
	57					
	58					
	59					
	95					
	96					
	97					
	98					
	99					
	96					
6/13/06	1	G14OLM-92	1660SS			SG
	2	93	SS			
	1	94	Hex			
	2	95	1660-50	8081CL	6F14043	
	3	56	100		044	
	4	97	500		045	
	5	98	1000		046	
	6	G14OLM 99	1660		047	
	7	G14OSS 00	2000		048	
	8	01	SS		049 CCVI	
	9	02	SS		050	
6/13/06	10	G14OSS-03	1661	8081CL	051	SG

CONTROL NUMBER 60.0035-0601A PAGE________

ESS LABORATORY
GC 6 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/13/06	11	G6F1305-0504	122153	8082CL	6F14052	
	12	-0605	1232		053	
	13	-0606	1232SS		054	
	14	-0607	1242		055 CCV2	
	15	-08	1242SS		056	
	16	-09	1248		057	
	17	-10	1248SS		058	
	18	-11	1254		~~059~~ 059 CCV3	
	19	-12	1254SS		060	
	20	-13	1262		061	
	21	-14	1262SS		062	
	22	-15	1268		063	
	23	-16	1268SS		6F14064	
	24	-17	0606078-01		74/60 54	
	25	-18	-02		54	
	26	-19	-03		ND	
	27	-20	-04		RRA10 54/60	
	28	-21	-05		RRA10 54/10	
	29	-22	-05MS		RRA10 60	
	30	-23	-05MSD		RRA10 70	
	31	-24	-06			
	32	-25	-07		ND	
	33	-26	-08		54	
	34	-27	-09		ND	
	35	-28	-10		ND	
	36	-29	-11		ND	
	37	-30	-12		ND	
	38	-31	-14		ND	
	39	-32	-15		ND	
6/13/06	40	G6F1305-33	-16	8082CL	ND	

CONTROL NUMBER 60.0035-0601A PAGE_______

ESS LABORATORY
GC 6 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/13/06	41	6H0LIS-34	0606078-17	8082 CI	54/60	M
	96	-35 36	1660CL		6F14039 CCV4 INJ: 0908	
	97	-36 37	1242CL		040 CCV5	
	98	-37 38	1254CL		041	
	99	-38 39	1254CL		042 CCV6	
	42	-39 41	BF60734-BLK1		CV	
	43	-40 42	-BS1		CV DCB surr low	
	44	-41 43	-BSD1		CV	
	45	-42 44	0606108-01		CV x10 48/54 see straight	
	46	-43 45	-02		CV x10 48/54/60 see 1X	
	47	-44 46	0606105-01		CV x10 54/60	
	48	-45 47	-01MS		CV x10	
	49	-46 48	-01MSD		CV x10	
	50	-47 49	-02		CV x10 see straight CV 60	
	51	-48 50	-03		CV x10 60	
	52	-49 51	-04		CV x10 60/54	
	53	-52 52	-05		CV x10 see 1X	
	54	-57 53	-06		CV x10 42/60	
	55	-52 54	-07		CV x10 60/54	
	56	-53 55	-08		CV x10 42/54 see 1X 60	
	57	-54 56	-09		CV x10 60/54	
	58	-5 57	-10		CV x10 60	
	59	-6 58	-11		CV x10 60	
	100	-57 59	Hex			
	96	-58 60	1660CL		6F14039 CCV7 INJ: 16 18	
	97	-59 61	1242CL		040	
	98	-60 62	1254CL		041	
	99	-61 63	1254CL		042 CCV8	
	60	-62 65	0606105-01		CV 48/54	
6/13/06	61	6H0LIS-63 66	-02	8082 CC	CV 54/60	

CONTROL NUMBER 60.0035-0601A

ESS LABORATORY
GC 6 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/13/16	62	G1H0317-44 67	0606109-4MI	8082 w/ CI		M
	63	66 68	-4MID			
	64	67 69	-02		60	
	65	67 70	-05		59	
	66	68 71	-08		60	
	67	69 72	0606078-04		x10 59	
	68	70 73	-05		x10 59/60	
	69	71 74	-05MI		55	
	70	72 78	-05MID		55	
	99	73 80	Hex			
	100	74 81	Hex			
	56	75 82	1660ci		6F14039	
	57	76 83	1242ci		040	
	58	77 84	1248ci		041	
	59	78 85	1294ci		high 042 CCVA	
6/13/16	56	G1H0317 79 86	1660ci	8082 w/ CI	CCV9	M
6/15/16	55	G1H0317 87,91	Hex	8082 w/ CI		M
	56	88 92	1660ci			
	56	89 93	1660ci		6F14066 02:32pm	
	57	90 94	1242ci		067	
	58	91 95	1248ci		068	
	59	92 96	1294ci		069	
	1	93 97	BF60739-BS1		Cu cleaned	
	2	94 98	BF61331-BLK1			
	3	G1H0217 95 99	-BS1			
	4	G1H0317 00 ~~96~~	-BSD1			
	5	~~97~~ 01	0606165-01		x100	
	6	~~98~~ 02	-02		x100	
	7	G1H0317 ~~99~~ 03	-03		x100	
6/15/16	8	G1H0317 00 04	-04	8082 w/ CI	x100	M

CONTROL NUMBER 60.0035-0601A PAGE________

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025501.D\ECD1A.CH Vial: 8
Acq On : 6-13-2006 03:09:54 PM Operator: ML
Sample : 1660 SS CCV1 Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025501.D\ECD2B.CH Vial: 8
Acq On : 6-13-2006 03:28:00 PM Operator: ML
Sample : 1660 SS Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS2.E
Quant Time: Jun 13 16:00:13 2006 Quant Results File: 8082_6CI.RES

Quant Method : C:\MSDCHEM\1\METHODS\8082_6CI.M (Chemstation Integrator)
Title :
Last Update : Tue Jun 13 16:00:05 2006
Response via : Initial Calibration
DataAcq Meth : 8082CB.M

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPESTICIDES Signal #2 Phase: RTX-CLPESTICIDES II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	4.23	4.14	3636.2E6	4149.2E6	39.609	40.071m
Spiked Amount 50.000			Recovery =		79.22%	80.14%
12) S Decachlorobiphen	10.02	10.22	2000.3E6	1271.2E6	28.536	29.607
Spiked Amount 50.000			Recovery =		57.07%	59.21%
Target Compounds						
2) LM1 AR1016 (1)	4.73	4.77	1532.6E6	1795.9E6	910.796	1014.014m
3) LM1 AR1016 (2)	5.16	5.24	3038.5E6	3724.5E6	933.863	1050.692m
4) LM1 AR1016 (3)	5.70	5.89	4638.9E6	3136.9E6	984.462	1080.080m
5) LM1 AR1016 (4)	6.28	6.37	2202.4E6	2381.8E6	1037.014	1044.377m
6) LM1 AR1016 (5)	6.68	6.99	1395.9E6	1538.3E6	1189.306	1270.842m
Sum AR1016 (1)			12808.3E6	12577.4E6	5055.441	5460.005
Average AR1016 (1)					1011.088	1092.001
7) LM2 AR1260 (1)	7.52	7.62	4159.8E6	3426.4E6	1012.582	1008.354m
8) LM2 AR1260 (2)	7.91	8.53	2823.1E6	2118.5E6	1251.969	850.599 #
9) LM2 AR1260 (3)	8.71	8.77	7396.6E6	4667.1E6	790.572	862.107
10) LM2 AR1260 (4)	8.98	9.12	3984.0E6	3000.9E6	864.934	891.858
11) LM2 AR1260 (5)	9.57	9.66	1560.2E6	942.8E6	747.941	796.668
Sum AR1260 (1)			19923.7E6	14155.7E6	4667.997	4409.586
Average AR1260 (1)					933.599	881.917

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
GH025501.D 8082_6CI.M Wed Jul 12 08:44:06 2006 3 Page 1

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025507.D\ECD1A.CH Vial: 14
Acq On : 6-13-2006 04:57:36 PM Operator: ML
Sample : 1242 CCV2 Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025507.D\ECD2B.CH Vial: 14
Acq On : 6-13-2006 05:15:27 PM Operator: ML
Sample : 1242 Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS2.E
Quant Time: Jun 14 13:00:14 2006 Quant Results File: 1242_6CI.RES

Quant Method : C:\MSDCHEM\1\METHODS\1242_6CI.M (Chemstation Integrator)
Title :
Last Update : Wed Jun 14 13:00:11 2006
Response via : Continuing Cal File: Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025507.D
DataAcq Meth : 8082CB.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticides
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	4.23	4.14	3530.2E6	4104.5E6	40.000	40.000
Spiked Amount 50.000			Recovery =		80.00%	80.00%
7) S Decachlorobiphen	10.02	10.22	1769.6E6	940.5E6	40.000	40.000
Spiked Amount 50.000			Recovery =		80.00%	80.00%
Target Compounds						
2) LM AR1242 (1)	4.73	4.77	1178.5E6	1509.7E6	1000.000	1000.000
3) LM AR1242 (2)	5.16	5.24	2221.4E6	2668.2E6	1000.000	1000.000
4) LM AR1242 (3)	5.70	5.75	3264.3E6	5552.5E6	1000.000	1000.000
5) LM AR1242 (4)	6.28	6.37	1636.6E6	1707.4E6	1000.000	1000.000
6) LM AR1242 (5)	6.75	7.44	1640.6E6	636.1E6	1000.000	1000.000
Sum AR1242 (1)			9941.3E6	12073.9E6	5000.000	5000.000
Average AR1242 (1)					1000.000	1000.000

Quantitation Report (Not Reviewed)

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025511.D\ECD1A.CH Vial: 18
Acq On : 6-13-2006 06:09:19 PM Operator: ML
Sample : 1254 CCV3 Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025511.D\ECD2B.CH Vial: 18
Acq On : 6-13-2006 06:27:12 PM Operator: ML
Sample : 1254 Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS2.E
Quant Time: Jul 12 16:30:16 2006 Quant Results File: 1254_6CI.RES

Quant Method : C:\MSDCHEM\1\METHODS\1254_6CI.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 12 16:30:10 2006
Response via : Continuing Cal File: Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025511.D
DataAcq Meth : 8082CB.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticides II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	4.23	4.13	3706.3E6	3948.6E6	40.000	40.000
Spiked Amount 50.000			Recovery =		80.00%	80.00%
7) S Decachlorobiphen	10.02	10.22	1602.3E6	776.9E6	40.000	40.000
Spiked Amount 50.000			Recovery =		80.00%	80.00%
Target Compounds						
2) LM AR1254 (1)	6.05	6.10	1471.3E6	1421.8E6	1000.000	1000.000
3) LM AR1254 (2)	6.68	6.99	2721.2E6	2868.7E6	1000.000	1000.000
4) LM AR1254 (3)	7.34	7.44	5227.4E6	3694.5E6	1000.000	1000.000
5) LM AR1254 (4)	7.79	7.99	3913.7E6	1946.5E6	1000.000	1000.000
6) LM AR1254 (5)	8.07	8.17	6200.2E6	3391.1E6	1000.000	1000.000
Sum AR1254 (1)			19533.7E6	13322.8E6	5000.000	5000.000
Average AR1254 (1)					1000.000	1000.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
GH025511.D 1254_6CI.M Wed Jul 12 16:30:20 2006 3 Page 1

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025536.D\ECD1A.CH Vial: 96
Acq On : 6-14-2006 09:08:33 AM Operator: ML
Sample : 1660 CC CCV4 Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025536.D\ECD2B.CH Vial: 96
Acq On : 6-14-2006 09:26:25 AM Operator: ML
Sample : 1660 CC Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS2.E
Quant Time: Jun 14 09:40:44 2006 Quant Results File: 8082_6CI.RES

Quant Method : C:\MSDCHEM\1\METHODS\8082_6CI.M (Chemstation Integrator)
Title :
Last Update : Tue Jun 13 16:00:05 2006
Response via : Initial Calibration
DataAcq Meth : 8082CB.M

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPESTICIDES Signal #2 Phase: RTX-CLPESTICIDES II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	4.23	4.13	3514.2E6	4512.2E6	38.279m	43.577
Spiked Amount 50.000			Recovery =		76.56%	87.15%
2) S Decachlorobiphen	10.02	10.22	2638.1E6	1566.1E6	37.636m	36.476
Spiked Amount 50.000			Recovery =		75.27%	72.95%
Target Compounds						
2) LM1 AR1016 (1)	4.73	4.77	1547.0E6	1786.4E6	919.347m	1008.676
3) LM1 AR1016 (2)	5.16	5.24	2944.7E6	3512.7E6	905.041m	990.939
4) LM1 AR1016 (3)	5.70	5.89	4471.7E6	2954.2E6	948.979	1017.171
5) LM1 AR1016 (4)	6.29	6.37	2267.9E6	2219.5E6	1067.866	973.225
6) LM1 AR1016 (5)	6.68	6.99	1360.8E6	1118.0E6	1159.319	923.626
Sum AR1016 (1)			12592.1E6	11590.8E6	5000.551	4913.637
verage AR1016 (1)					1000.110	982.727
7) LM2 AR1260 (1)	7.53	7.62	4271.9E6	3299.9E6	1039.867	971.140
8) LM2 AR1260 (2)	7.92	8.53	2643.8E6	2325.5E6	1172.445	933.721
9) LM2 AR1260 (3)	8.71	8.77	8895.6E6	5028.9E6	950.780	928.928
0) LM2 AR1260 (4)	8.99	9.12	4879.3E6	3040.3E6	1059.308	903.566
1) LM2 AR1260 (5)	9.57	9.66	2443.6E6	1064.2E6	1171.407	899.207
Sum AR1260 (1)			23134.0E6	14758.8E6	5393.807	4636.563
verage AR1260 (1)					1078.761	927.313

MJ 6/13/06

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
GH025536.D 8082_6CI.M Wed Jun 14 12:55:21 2006 3 Page 1

Quantitation Report (Not Reviewed)

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025537.D\ECD1A.CH Vial: 97
Acq On : 6-14-2006 09:26:25 AM Operator: ML
Sample : 1242 CC CCV Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025537.D\ECD2B.CH Vial: 97
Acq On : 6-14-2006 09:44:18 AM Operator: ML
Sample : 1242 CC Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS2.E
Quant Time: Jul 19 19:02:36 2006 Quant Results File: 1242_6CI.RES

Quant Method : C:\MSDCHEM\1\METHODS\1242_6CI.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 19 19:02:22 2006
Response via : Continuing Cal File: Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025507.D
DataAcq Meth : 8082CB.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticides
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	4.23	4.13	3755.5E6	4403.8E6	42.553	42.917
Spiked Amount 50.000			Recovery =		85.11%	85.83%
7) S Decachlorobiphen	10.01	10.22	1750.3E6	1018.7E6	39.564	43.327
Spiked Amount 50.000			Recovery =		79.13%	86.65%
Target Compounds						
2) LM AR1242 (1)	4.72	4.77	1222.7E6	1460.2E6	1037.486	967.241
3) LM AR1242 (2)	5.16	5.24	2318.9E6	2818.3E6	1043.914	1056.228
4) LM AR1242 (3)	5.70	5.75	3366.9E6	6149.0E6	1031.436	1107.420
5) LM AR1242 (4)	6.28	6.37	1692.0E6	1877.9E6	1033.860	1099.875
6) LM AR1242 (5)	6.75	7.43	1685.3E6	679.0E6	1027.296	1067.462
Sum AR1242 (1)			10285.9E6	12984.4E6	5173.992	5298.226
Average AR1242 (1)					1034.798	1059.645

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025539.D\ECD1A.CH Vial: 99
Acq On : 14 Jun 2006 10:02 Operator: ML
Sample : 1254 CC CCV6 Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025539.D\ECD2B.CH Vial: 99
Acq On : 14 Jun 2006 10:20 Operator: ML
Sample : 1254 CC Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS2.E
Quant Time: Jun 14 12:56:55 2006 Quant Results File: 1254_6CI.RES

Quant Method : C:\MSDCHEM\1\METHODS\1254_6CI.M (Chemstation Integrator)
Title :
Last Update : Tue Jun 13 09:38:07 2006
Response via : Continuing Cal File: Q:\SVOA\GC6_GH\DATA\GH0606\GH061206\GH025467.D
DataAcq Meth : 8082CB.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticides II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	4.23	4.13	3759.1E6	4339.4E6	42.985	44.409
Spiked Amount 50.000			Recovery =		85.97%	88.82%
7) S Decachlorobiphen	10.01	10.22	1860.5E6	1020.2E6	49.739	41.537
Spiked Amount 50.000			Recovery =		99.48%	83.07%
Target Compounds						
2) LM AR1254 (1)	6.05	6.10	1441.2E6	1689.4E6	1067.249m	1124.529
3) LM AR1254 (2)	6.68	6.99	2750.7E6	3537.3E6	1112.277	1135.084
4) LM AR1254 (3)	7.34	7.43	5283.9E6	4597.7E6	1127.339	1137.093
5) LM AR1254 (4)	7.79	7.99	3698.5E6	2503.6E6	1176.802	1131.568
6) LM AR1254 (5)	8.07	8.17	5773.0E6	4405.6E6	1229.416	1110.243
Sum AR1254 (1)			18947.2E6	16733.5E6	5713.083	5638.516
Average AR1254 (1)					1142.617	1127.703

6/13/06

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
GH025539.D 1254_6CI.M Wed Jun 14 12:57:45 2006 3 Page 1

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025560.D\ECD1A.CH Vial: 96
Acq On : 6-14-2006 04:18:37 PM Operator: ML
Sample : 1660 CC CCV7 Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025560.D\ECD2B.CH Vial: 96
Acq On : 6-14-2006 04:36:31 PM Operator: ML
Sample : 1660 CC Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS2.E
Quant Time: Jun 14 16:51:35 2006 Quant Results File: 8082_6CI.RES

Quant Method : C:\MSDCHEM\1\METHODS\8082_6CI.M (Chemstation Integrator)
Title :
Last Update : Tue Jun 13 16:00:05 2006
Response via : Initial Calibration
DataAcq Meth : 8082CB.M

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPESTICIDES Signal #2 Phase: RTX-CLPESTICIDES II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	4.23	4.13	3825.1E6	4512.3E6	41.666	43.578m
Spiked Amount 50.000			Recovery =		83.33%	87.16%
12) S Decachlorobiphen	10.02	10.22	2573.1E6	1539.3E6	36.709	35.850
Spiked Amount 50.000			Recovery =		73.42%	71.70%
Target Compounds						
2) LM1 AR1016 (1)	4.73	4.77	1535.8E6	1759.6E6	912.679	993.545m
3) LM1 AR1016 (2)	5.16	5.24	2885.9E6	3535.3E6	886.976	997.318m
4) LM1 AR1016 (3)	5.70	5.89	4493.7E6	2936.4E6	953.631	1011.051m
5) LM1 AR1016 (4)	6.28	6.37	2170.4E6	2303.9E6	1021.944	1010.248m
6) LM1 AR1016 (5)	6.68	6.99	1182.0E6	1089.7E6	1007.028	900.257m
Sum AR1016 (1)			12267.7E6	11625.0E6	4782.257	4912.420
Average AR1016 (1)					956.451	982.484
7) LM2 AR1260 (1)	7.52	7.62	3974.9E6	3312.9E6	967.567	974.949
8) LM2 AR1260 (2)	7.92	8.53	2311.9E6	2407.7E6	1025.288	966.730
9) LM2 AR1260 (3)	8.71	8.77	7148.5E6	5313.3E6	764.046	981.462 #
10) LM2 AR1260 (4)	8.98	9.12	3727.3E6	3172.6E6	809.217	942.899
11) LM2 AR1260 (5)	9.57	9.66	2063.9E6	1068.9E6	989.390	903.172
Sum AR1260 (1)			19226.5E6	15275.3E6	4555.508	4769.212
Average AR1260 (1)					911.102	953.842

N 6/15/06

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
GH025560.D 8082_6CI.M Thu Jun 15 11:48:39 2006 3 Page 1

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025563.D\ECD1A.CH Vial: 99
Acq On : 6-14-2006 05:12:18 PM Operator: ML
Sample : 1254 CC Inst : SVOA_GC6
Misc : CCV8 Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025563.D\ECD2B.CH Vial: 99
Acq On : 6-14-2006 05:30:23 PM Operator: ML
Sample : 1254 CC Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS2.E
Quant Time: Jun 15 11:49:54 2006 Quant Results File: 1254_6CI.RES

Quant Method : C:\MSDCHEM\1\METHODS\1254_6CI.M (Chemstation Integrator)
Title :
Last Update : Tue Jun 13 09:38:07 2006
Response via : Continuing Cal File: Q:\SVOA\GC6_GH\DATA\GH0606\GH061206\GH025467.D
DataAcq Meth : 8082CB.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticides II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	4.23	4.13	3888.2E6	4363.5E6	44.462	44.657
Spiked Amount 50.000			Recovery =		88.92%	89.31%
7) S Decachlorobiphen	10.02	10.22	1819.1E6	1033.9E6	48.633	42.099
Spiked Amount 50.000			Recovery =		97.27%	84.20%
Target Compounds						
2) LM AR1254 (1)	6.05	6.10	1470.4E6	1714.1E6	1088.859m	1140.950
3) LM AR1254 (2)	6.68	6.99	2830.1E6	3628.7E6	1144.399	1164.433
4) LM AR1254 (3)	7.34	7.44	5462.5E6	4689.7E6	1165.454	1159.869
5) LM AR1254 (4)	7.80	7.99	3984.6E6	2532.3E6	1267.836	1144.549
6) LM AR1254 (5)	8.07	8.17	4984.1E6	3816.4E6	1061.410m	961.782m
Sum AR1254 (1)			18731.7E6	16381.3E6	5727.958	5571.582
Average AR1254 (1)					1145.592	1114.316

6/15/06

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025585.D\ECD1A.CH Vial: 99
Acq On : 14 Jun 2006 22:17 Operator: ML
Sample : 1254 CC CCVA Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : AUTOINT1.E

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025585.D\ECD2B.CH Vial: 99
Acq On : 14 Jun 2006 22:35 Operator: ML
Sample : 1254 CC Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS2.E
Quant Time: Jul 13 14:31:19 2006 Quant Results File: 1254_6CI.RES

Quant Method : C:\MSDCHEM\1\METHODS\1254_6CI.M (Chemstation Integrator)
Title :
Last Update : Wed Jul 12 16:30:10 2006
Response via : Continuing Cal File: Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025511.D
DataAcq Meth : 8082CB.M

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPesticides Signal #2 Phase: RTX-CLPesticides II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	4.23	4.14	4356.6E6	4628.9E6	47.018	46.892
Spiked Amount 50.000			Recovery	=	94.04%	93.78%
7) S Decachlorobiphen	10.02	10.23	1393.4E6	804.9E6	34.786	41.437
Spiked Amount 50.000			Recovery	=	69.57%	82.87%
Target Compounds						
2) LM AR1254 (1)	6.05	6.11	2046.8E6	1813.1E6	1391.142	1275.203
3) LM AR1254 (2)	6.68	7.00	3127.6E6	3827.4E6	1149.358	1334.160
4) LM AR1254 (3)	7.34	7.44	7176.2E6	4934.9E6	1372.809	1335.742
5) LM AR1254 (4)	7.80	8.00	5186.5E6	2515.0E6	1325.223	1292.033
6) LM AR1254 (5)	8.07	8.17	7714.2E6	4258.5E6	1244.202	1255.787
Sum AR1254 (1)			25251.3E6	17348.9E6	6482.733	6492.926
Average AR1254 (1)					1296.547	1298.585

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.
GH025585.D 1254_6CI.M Thu Jul 13 14:31:43 2006 3 Page 1

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025586.D\ECD1A.CH Vial: 96
Acq On : 14 Jun 2006 22:35 Operator: ML
Sample : 1660 CC Inst : SVOA_GC6
Misc : CCV9 Multiplr: 1.00
IntFile : EVENTS.E

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061306\GH025586.D\ECD2B.CH Vial: 96
Acq On : 14 Jun 2006 22:52 Operator: ML
Sample : 1660 CC Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS2.E
Quant Time: Jun 15 08:57:34 2006 Quant Results File: 8082_6CI.RES

Quant Method : C:\MSDCHEM\1\METHODS\8082_6CI.M (Chemstation Integrator)
Title :
Last Update : Tue Jun 13 16:00:05 2006
Response via : Initial Calibration
DataAcq Meth : 8082CB.M

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPESTICIDES Signal #2 Phase: RTX-CLPESTICIDES II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	4.23	4.14	3914.6E6	4956.4E6	42.641	47.867
Spiked Amount 50.000			Recovery =		85.28%	95.73%
2) S Decachlorobiphen	10.02	10.23	1796.5E6	1266.4E6	25.629	29.495
Spiked Amount 50.000			Recovery =		51.26%	58.99%
Target Compounds						
2) LM1 AR1016 (1)	4.73	4.78	1591.3E6	1972.9E6	945.674	1113.950
3) LM1 AR1016 (2)	5.16	5.25	2972.9E6	3857.2E6	913.699	1088.127
4) LM1 AR1016 (3)	5.70	5.89	4701.1E6	3368.2E6	997.653	1159.750
5) LM1 AR1016 (4)	6.28	6.38	2284.2E6	2601.8E6	1075.565	1140.860
6) LM1 AR1016 (5)	6.68	7.00	1255.2E6	1377.8E6	1069.421	1138.219
Sum AR1016 (1)			12804.7E6	13178.0E6	5002.012	5640.906
verage AR1016 (1)					1000.402	1128.181
7) LM2 AR1260 (1)	7.52	7.63	4149.8E6	3807.9E6	1010.144	1120.643
8) LM2 AR1260 (2)	7.92	8.54	2496.4E6	2262.6E6	1107.097	908.462
9) LM2 AR1260 (3)	8.71	8.78	7068.3E6	4928.7E6	755.482	910.414
0) LM2 AR1260 (4)	8.98	9.12	3319.9E6	2799.7E6	720.757	832.055
1) LM2 AR1260 (5)	9.57	9.67	1371.1E6	916.5E6	657.302	774.446
Sum AR1260 (1)			18405.5E6	14715.4E6	4250.781	4546.020
verage AR1260 (1)					850.156	909.204

PCB
Logbooks

ESS Organic Preparation Logbook

Project #: 0606078
Prep Date: 6/8/06
Batch ID: BF60801
Extraction Method: 3541

Surrogate ID#
A 6E30055
B NA
C NA

Matrix Spike ID#
D 6F05037
E 6C08039
F NA

Analytical Matrix: Soil
Extraction Time:
Start: 4:48PM
Finish: ——

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
P4PTX BF60801B	20.0	1	NA	10	10	NA	6/8/06	40C	NA	NA		Kaw	No witness	VC
PXBF60801BS	20.0	1	1D	10	10									
PXBF60801BSD	20.0	1	1D	10	10									
PTXBF60801BS	20.1	1	1E	10	10									
PTXBF60801BSD	20.2	1	1E	10	10									
0606078-01	20.0	1	NA	10	10									
02	20.0	1		10	10									
03	20.1	1		10	10									
04	20.2	1		10	10									
05	20.0	1	NA	10	10									
P0606078 05MS	20.0	1	1D	10	10									
05MSD	20.1	1	1D	10	10									
PTX0606078-05MS	20.1	1	1E	10	10									
05MSD	20.0	1	1E	10	10									
06	20.0	1	NA	10	10									
07	20.1	1		10	10									
08	20.9	1		10	10									
09	20.1	1		10	10									
10	20.2	1		10	10									
11	20.0	1		10	10									
12	20.0	1		10	10									
14	20.6	1		10	10									
15	20.1	1		10	10									
16	20.0	1		10	10									
17	20.0	1	NA	10	10	NA	6/8/06	40C	NA	NA		Kaw		VC

Analysis Performed
PCB ☒
B/N SVOA ☐
SVOA ☐
LL PAH ☐
PEST ☒
TPH/GC ☐
BIS-2 ☐
PAH ☐

Acid Washed: (Y) / N
H_2SO_4 ID#: [illegible]
Cu Cleaned: Y / (N)
Cu ID#: NA
Florisiled: Y / (N)
Lot#: NA
Silica Column/Carbon prep: Y / (N)
Lot #: NA

CH_2Cl_2 lot #: NA
Hexane lot#: CP988
Acetone lot#: C15E11
NaOH ID#: NA
Na_2SO_4 ID#: PR#0530066E

Prepared By: Kaw
Glasswool: PRI10530006E 06020613
Method #(s): 8082/8081

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A

BATCH ID/Test: BF60801

BATCH ID/Test: ______

Page ______

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DETERMINATION OF PCDD/PCDF LEVELS

Prepared for:
ESS Laboratory
Attn: Jena Paola
185 Frances Avenue
Cranston, RI 02910-2211

ACCREDITED IN ACCORDANCE WITH nelac

This report contains 31 pages.

The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Project: Chemical Analysis

Client Project Number: 0606078

REPORT OF LABORATORY ANALYSIS

ACCREDITED IN ACCORDANCE WITH nelac

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REPORT OF: CHEMICAL ANALYSES

PROJECT: PCDD/PCDF ANALYSES

DATE: July 5, 2006

ISSUED TO: ESS Laboratory
Attn: Jena Paola
185 Frances Avenue
Cranston, RI 02910-2211

REPORT NO: 06-1033426

INTRODUCTION

This report presents the results from the analyses performed on fifteen samples submitted by a representative of ESS Laboratory. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290.

SAMPLE IDENTIFICATION

Client ID	Sample Type	Date Received	PACE ID
0606078-01	Solid	06/08/06	1033426001
0606078-02	Solid	06/08/06	1033426002
0606078-03	Solid	06/08/06	1033426003
0606078-04	Solid	06/08/06	1033426004
0606078-05	Solid	06/08/06	1033426005
0606078-07	Solid	06/08/06	1033426006
0606078-08	Solid	06/08/06	1033426007
0606078-09	Solid	06/08/06	1033426008
0606078-10	Solid	06/08/06	1033426009
0606078-11	Solid	06/08/06	1033426010
0606078-12	Solid	06/08/06	1033426011
0606078-14	Solid	06/08/06	1033426012
0606078-15	Solid	06/08/06	1033426013
0606078-16	Solid	06/08/06	1033426014
0606078-17	Solid	06/08/06	1033426015

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REPORT OF: CHEMICAL ANALYSES

PROJECT: PCDD/PCDF ANALYSES

DATE: July 5, 2006

REPORT NO: 06-1033426

RESULTS

The results are included in the following:

Appendix A – Chain of Custody Documentation
Appendix B – PCDD/PCDF Results

DISCUSSION

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 29-164%. With the exceptions of three values, which were flagged "P" on the sample results tables, the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of PCDD or PCDF congeners. The affected values were flagged "I" where incorrect isotope ratios were obtained, or "E" where polychlorinated diphenyl ethers were present.

A laboratory method blank was prepared and analyzed with each sample batch as part of our routine quality control procedures. The results, found at the beginning of Appendix B, show the blanks to be free of PCDDs and PCDFs at the reporting limits, with the exception of a trace level of Total TCDD in Blank-9894. This was below the calibration range of the method. The Total TCDD levels reported for the associated field samples were higher than the corresponding blank level by an order of magnitude or more. These results indicate that the sample processing steps did not contribute significantly to the levels reported for the field samples.

Laboratory and matrix spike samples were also prepared with the sample batches using clean sand or sample matrix that had been fortified with native standard materials. The results show that the spiked native compounds in the laboratory spike samples were recovered at 81-104%. These results indicate a high degree of accuracy for these determinations. Somewhat variable results were obtained for the spiked native congeners in the matrix spike samples, due to the levels of these compounds in the sample material.

Pace Analytical®
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Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

REPORT OF: CHEMICAL ANALYSES

PROJECT: **PCDD/PCDF ANALYSES** **DATE:** July 5, 2006

 REPORT NO: 06-1033426

REMARKS

The sample extracts will be retained for a period of 15 days from the date of this report and then discarded unless other arrangements are made. The raw mass spectral data will be archived on magnetic tape for a period of not less than one year. Questions regarding the data contained in this report may be directed to the author at the number provided below.

Pace Analytical Services, Inc.

Scott C. Unze
Project Manager, HRMS
(612) 607-6383

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www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
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TABLE 1. 2,3,7,8-TCDD Equivalency Factors (TEFs) for the Polychlorinated Dibenzo-p-dioxins and Dibenzofurans

Number	Compound(s)	TEF
1	2,3,7,8-TCDD	1.00
2	1,2,3,7,8-PeCDD	0.50
3	1,2,3,6,7,8-HxCDD	0.1
4	1,2,3,7,8,9-HxCDD	0.1
5	1,2,3,4,7,8-HxCDD	0.1
6	1,2,3,4,6,7,8-HpCDD	0.01
7	OCDD	0.001
8	* Total - TCDD	0.0
9	* Total - PeCDD	0.0
10	* Total - HxCDD	0.0
11	* Total - HpCDD	0.0
12	2,3,7,8-TCDF	0.10
13	1,2,3,7,8-PeCDF	0.05
14	2,3,4,7,8-PeCDF	0.5
15	1,2,3,6,7,8-HxCDF	0.1
16	1,2,3,7,8,9-HxCDF	0.1
17	1,2,3,4,7,8-HxCDF	0.1
18	2,3,4,6,7,8-HxCDF	0.1
19	1,2,3,4,6,7,8-HpCDF	0.01
20	1,2,3,4,7,8,9-HpCDF	0.01
21	OCDF	0.001
22	* Total - TCDF	0.0
23	* Total - PeCDF	0.0
24	* Total - HxCDF	0.0
25	* Total - HpCDF	0.0

*Excluding the 2,3,7,8-substituted congeners.

Reference: International Toxic Equivalence

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APPENDIX A

ESS Laboratory (Pace Analytical) CHAIN OF CUSTODY

1033424 Page 1 of 2

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

Turn Time: X Standard Other ____
If faster than 5 days, prior approval by laboratory is required # ____
State where samples were collected from: MA (RI) CT NH NJ NY ME Other ____
Is this project for any of the following: MA-MCP Navy USACE Other ____

Reporting Limits

ESS LAB PROJECT ID: 0606078

Electronic Deliverable ___ Yes ___ No
Format: Excel ___ Access ___ PDF ___ Other ____

Co. Name	Project #	Project Name (20 Char. or less)
Contact Person: Jena Paola	Address	
City / State / Zip	PO#	
Telephone #	Fax #	Email Address

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis: Dioxins/Furan	Write Required Analysis: ms/msd dup										
	6-5-06	1505		X	S	0606078-01	1	1	G	X											001
	6-5-06	1530		X	S	↓ -02	1	1	G	X											002
	6-5-06	1550		X	S	0606078 -03	1	1	G	X											003
703	6-6-06	1452		X	S	0606078 - 04	1	1	G	X											004
	6-6-06	1452		X	S	0606078 - 05	1	1	G	X	X										005
	6-6-06	1117		X	S	0606078 - 07	1	1	G	X											006
	6-6-06	831		X	S	0606078 - 08	1	1	G	X											007
	6-6-06	0916		X	S	0606078 - 09	1	1	G	X											008
	6-6-06	611		X	S	0606078 - 10	1	1	G	X											009
	6-6-06	1331		X	S	0606078 - 11	1	1	G	X											010

Container Type: P-Poly (G-Glass) S-Sterile V-VOA | Matrix: (S-Soil) SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: X Yes ___ No
Seals Intact: X Yes ___ No NA: ___
Cooler Temp: 2.8°C

Internal Use Only
[ ] Pickup
[ ] Technicians ____

Preservation Code: (1- NP) 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
A. Daues	6/7/06 1800	[illegible]	6/8/06 915				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory PACE Analytical/CHAIN OF CUSTODY 1033426

Page 2 of 2

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

Turn Time: X Standard Other ____
If faster than 5 days, prior approval by laboratory is required #____
State where samples were collected from: MA (RI) CT NH NJ NY ME Other ____
Is this project for any of the following: MA-MCP Navy USACE Other ____

Reporting Limits | ESS LAB PROJECT ID

Electronic Deliverable ___ Yes ___ No
Format: Excel__ Access__ PDF__ Other ____

Co. Name	Project #	Project Name (20 Char. or less)
Contact Person: Jena Paola	Address	
City / State / Zip	PO#	
Telephone #	Fax #	Email Address

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis: Dioxins/Furan
	6-6-06	1035		X	S	06060078-12	1	1	G	011
	6-6-06	1345		X	S	06060078-14	1	1	G	012
	6-6-06	1014		X	S	06060078-15	1	1	G	013
704	6-6-06	1101		X	S	06060078-16	1	1	G	014
	6-6-06	1623		X	S	06060078-17	1	1	G	015

Container Type: P-Poly (G-Glass) S-Sterile V-VOA | Matrix: (S-Soil) SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present X Yes ___ No
Seals Intact X Yes ___ No NA: ____
Cooler Temp: 2.8°C

Internal Use Only
[ ] Pickup
[ ] Technicians ____

Preservation Code: (1- NP), 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
A. Davis	6/06/1800		6/8/06 915				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

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Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

APPENDIX B

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Method 8290 Blank Analysis Results

Client - ESS Laboratory

Lab Sample ID	BLANK-9894	Matrix	Solid
Filename	F60613A_11	Dilution	NA
Total Amount Extracted	20.7 g	Extracted	06/09/2006
ICAL Date	05/31/2006	Analyzed	06/13/2006 18:47
CCal Filename(s)	F60613A_05 & F60613A_20	Injected By	SMT

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.097		2,3,7,8-TCDF-13C	2.00	100
Total TCDF	ND	-----	0.097		2,3,7,8-TCDD-13C	2.00	91
					1,2,3,7,8-PeCDF-13C	2.00	85
2,3,7,8-TCDD	ND	-----	0.097		2,3,4,7,8-PeCDF-13C	2.00	112
Total TCDD	0.10	-----	0.097	J	1,2,3,7,8-PeCDD-13C	2.00	128
					1,2,3,4,7,8-HxCDF-13C	2.00	100
1,2,3,7,8-PeCDF	ND	-----	0.480		1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	ND	-----	0.480		2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	ND	-----	0.480		1,2,3,7,8,9-HxCDF-13C	2.00	93
					1,2,3,4,7,8-HxCDD-13C	2.00	90
1,2,3,7,8-PeCDD	ND	-----	0.480		1,2,3,6,7,8-HxCDD-13C	2.00	79
Total PeCDD	ND	-----	0.480		1,2,3,4,6,7,8-HpCDF-13C	2.00	62
					1,2,3,4,7,8,9-HpCDF-13C	2.00	57
1,2,3,4,7,8-HxCDF	ND	-----	0.480		1,2,3,4,6,7,8-HpCDD-13C	2.00	65
1,2,3,6,7,8-HxCDF	ND	-----	0.480		OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	ND	-----	0.480				
1,2,3,7,8,9-HxCDF	ND	-----	0.480		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.480		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.480		2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	0.480				
1,2,3,7,8,9-HxCDD	ND	-----	0.480				
Total HxCDD	ND	-----	0.480				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.480		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.480		Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	0.480		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.480				
Total HpCDD	ND	-----	0.480				
OCDF	ND	-----	0.970				
OCDD	ND	-----	0.970				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LRL = Lower Reporting Limit
J = Concentration detected is below the calibration range
P = Recovery outside of target range
A = Detection Limit based on signal-to-noise measurement

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Blank Analysis Results

Client - ESS Laboratory

Lab Sample ID	BLANK-9912	Matrix	Solid
Filename	F60613A_12	Dilution	NA
Total Amount Extracted	20.1 g	Extracted	06/11/2006
ICAL Date	05/31/2006	Analyzed	06/13/2006 19:37
CCal Filename(s)	F60613A_05 & F60613A_20	Injected By	BAL

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.500	2,3,7,8-TCDF-13C	2.00	85
Total TCDF	ND	-----	0.500	2,3,7,8-TCDD-13C	2.00	79
				1,2,3,7,8-PeCDF-13C	2.00	95
2,3,7,8-TCDD	ND	-----	0.500	2,3,4,7,8-PeCDF-13C	2.00	98
Total TCDD	ND	-----	0.500	1,2,3,7,8-PeCDD-13C	2.00	117
				1,2,3,4,7,8-HxCDF-13C	2.00	85
1,2,3,7,8-PeCDF	ND	-----	2.500	1,2,3,6,7,8-HxCDF-13C	2.00	73
2,3,4,7,8-PeCDF	ND	-----	2.500	2,3,4,6,7,8-HxCDF-13C	2.00	75
Total PeCDF	ND	-----	2.500	1,2,3,7,8,9-HxCDF-13C	2.00	81
				1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	ND	-----	2.500	1,2,3,6,7,8-HxCDD-13C	2.00	67
Total PeCDD	ND	-----	2.500	1,2,3,4,6,7,8-HpCDF-13C	2.00	57
				1,2,3,4,7,8,9-HpCDF-13C	2.00	51
1,2,3,4,7,8-HxCDF	ND	-----	2.500	1,2,3,4,6,7,8-HpCDD-13C	2.00	59
1,2,3,6,7,8-HxCDF	ND	-----	2.500	OCDD-13C	4.00	58
2,3,4,6,7,8-HxCDF	ND	-----	2.500			
1,2,3,7,8,9-HxCDF	ND	-----	2.500	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	2.500	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	2.500	2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	ND	-----	2.500			
1,2,3,7,8,9-HxCDD	ND	-----	2.500			
Total HxCDD	ND	-----	2.500			
1,2,3,4,6,7,8-HpCDF	ND	-----	2.500	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	2.500	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	2.500	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	2.500			
Total HpCDD	ND	-----	2.500			
OCDF	ND	-----	5.000			
OCDD	ND	-----	5.000			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LRL = Lower Reporting Limit
J = Concentration detected is below the calibration range
P = Recovery outside of target range
A = Detection Limit based on signal-to-noise measurement

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI006
Date Sampled: 06/05/06 15:05

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-01
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606078-01		
Lab Sample ID	1033426001		
Filename	F60620B_11		
Injected By	SMT		
Total Amount Extracted	13.9 g	Matrix	Soil
% Moisture	25.9	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	06/05/2006
ICAL Date	05/31/2006	Received	06/08/2006
CCal Filename(s)	F60620A_18 & F60620B_16	Extracted	06/09/2006
Method Blank ID	BLANK-9894	Analyzed	06/21/2006 07:32

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	12.0	-----	0.24	A	2,3,7,8-TCDF-13C	2.00	80	
Total TCDF	240.0	-----	0.19		2,3,7,8-TCDD-13C	2.00	96	
					1,2,3,7,8-PeCDF-13C	2.00	110	
2,3,7,8-TCDD	1.1	-----	0.20	A	2,3,4,7,8-PeCDF-13C	2.00	89	
Total TCDD	55.0	-----	0.19		1,2,3,7,8-PeCDD-13C	2.00	125	
					1,2,3,4,7,8-HxCDF-13C	2.00	164	P
1,2,3,7,8-PeCDF	9.9	-----	0.97		1,2,3,6,7,8-HxCDF-13C	2.00	114	
2,3,4,7,8-PeCDF	19.0	-----	0.97		2,3,4,6,7,8-HxCDF-13C	2.00	98	
Total PeCDF	320.0	-----	0.97		1,2,3,7,8,9-HxCDF-13C	2.00	83	
					1,2,3,4,7,8-HxCDD-13C	2.00	127	
1,2,3,7,8-PeCDD	8.4	-----	0.97		1,2,3,6,7,8-HxCDD-13C	2.00	101	
Total PeCDD	93.0	-----	0.97		1,2,3,4,6,7,8-HpCDF-13C	2.00	90	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	76	
1,2,3,4,7,8-HxCDF	25.0	-----	0.97		1,2,3,4,6,7,8-HpCDD-13C	2.00	108	
1,2,3,6,7,8-HxCDF	6.9	-----	0.97		OCDD-13C	4.00	66	
2,3,4,6,7,8-HxCDF	27.0	-----	0.97					
1,2,3,7,8,9-HxCDF	10.0	-----	0.97		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	360.0	-----	0.97		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	5.5	-----	0.97		2,3,7,8-TCDD-37Cl4	0.20	106	
1,2,3,6,7,8-HxCDD	14.0	-----	0.97					
1,2,3,7,8,9-HxCDD	5.7	-----	0.97					
Total HxCDD	240.0	-----	0.97					
1,2,3,4,6,7,8-HpCDF	110.0	-----	0.97		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	11.0	-----	0.97		Equivalence: 29 ng/Kg			
Total HpCDF	220.0	-----	0.97		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	130.0	-----	0.97					
Total HpCDD	270.0	-----	0.97					
OCDF	170.0	-----	1.90					
OCDD	1000.0	-----	1.90					

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI005
Date Sampled: 06/05/06 15:30

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-02
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606078-02		
Lab Sample ID	1033426002		
Filename	F60620B_04		
Injected By	SMT		
Total Amount Extracted	16.6 g	Matrix	Soil
% Moisture	51.4	Dilution	NA
Dry Weight Extracted	8.07 g	Collected	06/05/2006
ICAL Date	05/31/2006	Received	06/08/2006
CCal Filename(s)	F60620A_18 & F60620B_16	Extracted	06/09/2006
Method Blank ID	BLANK-9894	Analyzed	06/21/2006 01:42

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	11.00	-----	0.25		2,3,7,8-TCDF-13C	2.00	98
Total TCDF	260.00	-----	0.25		2,3,7,8-TCDD-13C	2.00	102
					1,2,3,7,8-PeCDF-13C	2.00	93
2,3,7,8-TCDD	0.90	-----	0.25	J	2,3,4,7,8-PeCDF-13C	2.00	96
Total TCDD	28.00	-----	0.25		1,2,3,7,8-PeCDD-13C	2.00	119
					1,2,3,4,7,8-HxCDF-13C	2.00	105
1,2,3,7,8-PeCDF	5.40	-----	1.20	J	1,2,3,6,7,8-HxCDF-13C	2.00	88
2,3,4,7,8-PeCDF	77.00	-----	1.20		2,3,4,6,7,8-HxCDF-13C	2.00	92
Total PeCDF	830.00	-----	1.20		1,2,3,7,8,9-HxCDF-13C	2.00	98
					1,2,3,4,7,8-HxCDD-13C	2.00	103
1,2,3,7,8-PeCDD	4.30	-----	1.20	J	1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	47.00	-----	1.20		1,2,3,4,6,7,8-HpCDF-13C	2.00	76
					1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	12.00	-----	1.20		1,2,3,4,6,7,8-HpCDD-13C	2.00	85
1,2,3,6,7,8-HxCDF	17.00	-----	1.20		OCDD-13C	4.00	64
2,3,4,6,7,8-HxCDF	17.00	-----	1.20				
1,2,3,7,8,9-HxCDF	6.40	-----	1.20		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	460.00	-----	1.20		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	2.70	-----	1.20	J	2,3,7,8-TCDD-37Cl4	0.20	94
1,2,3,6,7,8-HxCDD	8.50	-----	1.20				
1,2,3,7,8,9-HxCDD	5.50	-----	1.20	J			
Total HxCDD	92.00	-----	1.20				
1,2,3,4,6,7,8-HpCDF	38.00	-----	1.20		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	4.80	-----	1.20	J	Equivalence: 52 ng/Kg		
Total HpCDF	43.00	-----	1.20		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	86.00	-----	1.20				
Total HpCDD	180.00	-----	1.20				
OCDF	35.00	-----	2.50				
OCDD	600.00	-----	2.50				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI004
Date Sampled: 06/05/06 15:50

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-03
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606078-03		
Lab Sample ID	1033426003		
Filename	F60620B_05		
Injected By	SMT		
Total Amount Extracted	11.9 g	Matrix	Soil
% Moisture	20.7	Dilution	NA
Dry Weight Extracted	9.45 g	Collected	06/05/2006
ICAL Date	05/31/2006	Received	06/08/2006
CCal Filename(s)	F60620A_18 & F60620B_16	Extracted	06/09/2006
Method Blank ID	BLANK-9894	Analyzed	06/21/2006 02:32

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	2.50	-----	0.220	A	2,3,7,8-TCDF-13C	2.00	91
Total TCDF	45.00	-----	0.210		2,3,7,8-TCDD-13C	2.00	95
					1,2,3,7,8-PeCDF-13C	2.00	88
2,3,7,8-TCDD	0.23	-----	0.210	J	2,3,4,7,8-PeCDF-13C	2.00	91
Total TCDD	5.80	-----	0.210		1,2,3,7,8-PeCDD-13C	2.00	115
					1,2,3,4,7,8-HxCDF-13C	2.00	93
1,2,3,7,8-PeCDF	1.50	-----	1.100	J	1,2,3,6,7,8-HxCDF-13C	2.00	81
2,3,4,7,8-PeCDF	4.30	-----	1.100	J	2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	59.00	-----	1.100		1,2,3,7,8,9-HxCDF-13C	2.00	91
					1,2,3,4,7,8-HxCDD-13C	2.00	91
1,2,3,7,8-PeCDD	ND	-----	1.100		1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	2.10	-----	1.100	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	75
					1,2,3,4,7,8,9-HpCDF-13C	2.00	67
1,2,3,4,7,8-HxCDF	1.70	-----	1.100	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	86
1,2,3,6,7,8-HxCDF	1.60	-----	1.100	J	OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	2.70	-----	1.100	J			
1,2,3,7,8,9-HxCDF	ND	-----	1.100		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	19.00	-----	1.100		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.100		2,3,7,8-TCDD-37Cl4	0.20	92
1,2,3,6,7,8-HxCDD	ND	-----	1.100				
1,2,3,7,8,9-HxCDD	ND	-----	1.100				
Total HxCDD	6.20	-----	1.100				
1,2,3,4,6,7,8-HpCDF	7.20	-----	1.100		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.100		Equivalence: 3.5 ng/Kg		
Total HpCDF	10.00	-----	1.100		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	6.40	-----	1.100				
Total HpCDD	13.00	-----	1.100				
OCDF	7.30	-----	2.100	J			
OCDD	46.00	-----	2.100				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008
Date Sampled: 06/06/06 14:52

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-04
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606078-04		
Lab Sample ID	1033426004		
Filename	F60620B_10		
Injected By	SMT		
Total Amount Extracted	15.5 g	Matrix	Soil
% Moisture	36.2	Dilution	NA
Dry Weight Extracted	9.87 g	Collected	06/06/2006
ICAL Date	05/31/2006	Received	06/08/2006
CCal Filename(s)	F60620A_18 & F60620B_16	Extracted	06/09/2006
Method Blank ID	BLANK-9894	Analyzed	06/21/2006 06:42

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	140.0	-----	0.61	A	2,3,7,8-TCDF-13C	2.00	89
Total TCDF	1900.0	-----	0.20		2,3,7,8-TCDD-13C	2.00	96
					1,2,3,7,8-PeCDF-13C	2.00	90
2,3,7,8-TCDD	6.2	-----	0.47	A	2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	400.0	-----	0.20		1,2,3,7,8-PeCDD-13C	2.00	116
					1,2,3,4,7,8-HxCDF-13C	2.00	103
1,2,3,7,8-PeCDF	-----	540	1.00	E	1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	490.0	-----	1.00		2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	3800.0	-----	1.00		1,2,3,7,8,9-HxCDF-13C	2.00	78
					1,2,3,4,7,8-HxCDD-13C	2.00	92
1,2,3,7,8-PeCDD	42.0	-----	1.00		1,2,3,6,7,8-HxCDD-13C	2.00	72
Total PeCDD	660.0	-----	1.00		1,2,3,4,6,7,8-HpCDF-13C	2.00	55
					1,2,3,4,7,8,9-HpCDF-13C	2.00	46
1,2,3,4,7,8-HxCDF	290.0	-----	1.00		1,2,3,4,6,7,8-HpCDD-13C	2.00	70
1,2,3,6,7,8-HxCDF	230.0	-----	1.00		OCDD-13C	4.00	46
2,3,4,6,7,8-HxCDF	260.0	-----	1.00				
1,2,3,7,8,9-HxCDF	100.0	-----	1.20	A	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	3500.0	-----	1.00		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	62.0	-----	1.00	A	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	150.0	-----	1.10	A			
1,2,3,7,8,9-HxCDD	110.0	-----	1.20	A			
Total HxCDD	1500.0	-----	1.00				
1,2,3,4,6,7,8-HpCDF	990.0	-----	1.30	A	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	130.0	-----	1.30	A	Equivalence: 440 ng/Kg		
Total HpCDF	2200.0	-----	1.00		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	1600.0	-----	1.40	A			
Total HpCDD	2800.0	-----	1.00				
OCDF	970.0	-----	2.00				
OCDD	9500.0	-----	2.50	A			

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI008 DUP
Date Sampled: 06/06/06 14:52

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-05
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612-607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606078-05		
Lab Sample ID	1033426005		
Filename	F60620A_16		
Injected By	SMT		
Total Amount Extracted	11.6 g	Matrix	Soil
% Moisture	36.0	Dilution	NA
Dry Weight Extracted	7.42 g	Collected	06/06/2006
ICAL Date	05/31/2006	Received	06/08/2006
CCal Filename(s)	F60620A_02 & F60620A_18	Extracted	06/11/2006
Method Blank ID	BLANK-9912	Analyzed	06/20/2006 20:41

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	150.0	-----	0.32	A	2,3,7,8-TCDF-13C	2.00	77
Total TCDF	2200.0	-----	0.27		2,3,7,8-TCDD-13C	2.00	91
					1,2,3,7,8-PeCDF-13C	2.00	92
2,3,7,8-TCDD	6.5	-----	0.42	A	2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	420.0	-----	0.27		1,2,3,7,8-PeCDD-13C	2.00	119
					1,2,3,4,7,8-HxCDF-13C	2.00	129
1,2,3,7,8-PeCDF	130.0	-----	1.30		1,2,3,6,7,8-HxCDF-13C	2.00	98
2,3,4,7,8-PeCDF	270.0	-----	1.30		2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	3800.0	-----	1.30		1,2,3,7,8,9-HxCDF-13C	2.00	87
					1,2,3,4,7,8-HxCDD-13C	2.00	91
1,2,3,7,8-PeCDD	25.0	-----	1.30		1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	630.0	-----	1.30		1,2,3,4,6,7,8-HpCDF-13C	2.00	58
					1,2,3,4,7,8,9-HpCDF-13C	2.00	52
1,2,3,4,7,8-HxCDF	230.0	-----	1.30		1,2,3,4,6,7,8-HpCDD-13C	2.00	89
1,2,3,6,7,8-HxCDF	180.0	-----	1.30		OCDD-13C	4.00	53
2,3,4,6,7,8-HxCDF	230.0	-----	1.30				
1,2,3,7,8,9-HxCDF	44.0	-----	1.30		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	3200.0	-----	1.30		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	64.0	-----	1.30		2,3,7,8-TCDD-37Cl4	0.20	59
1,2,3,6,7,8-HxCDD	160.0	-----	1.30				
1,2,3,7,8,9-HxCDD	120.0	-----	1.80	A			
Total HxCDD	1700.0	-----	1.30				
1,2,3,4,6,7,8-HpCDF	990.0	-----	1.30		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	110.0	-----	1.30		Equivalence: 320 ng/Kg		
Total HpCDF	2200.0	-----	1.30		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	2200.0	-----	1.30				
Total HpCDD	3700.0	-----	1.30				
OCDF	1200.0	-----	2.70				
OCDD	15000.0	-----	3.00	A			

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI208
Date Sampled: 06/06/06 11:17

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-07
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606078-07		
Lab Sample ID	1033426006		
Filename	F60620B_06		
Injected By	SMT		
Total Amount Extracted	10.8 g	Matrix	Soil
% Moisture	9.4	Dilution	NA
Dry Weight Extracted	9.75 g	Collected	06/06/2006
ICAL Date	05/31/2006	Received	06/08/2006
CCal Filename(s)	F60620A_18 & F60620B_16	Extracted	06/11/2006
Method Blank ID	BLANK-9912	Analyzed	06/21/2006 03:22

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.32	-----	0.210	J	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	2.90	-----	0.210		2,3,7,8-TCDD-13C	2.00	84
					1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	-----	0.210		2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	0.24	-----	0.210	J	1,2,3,7,8-PeCDD-13C	2.00	103
					1,2,3,4,7,8-HxCDF-13C	2.00	83
1,2,3,7,8-PeCDF	ND	-----	1.000		1,2,3,6,7,8-HxCDF-13C	2.00	71
2,3,4,7,8-PeCDF	ND	-----	1.000		2,3,4,6,7,8-HxCDF-13C	2.00	76
Total PeCDF	1.40	-----	1.000	J	1,2,3,7,8,9-HxCDF-13C	2.00	81
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	1.000		1,2,3,6,7,8-HxCDD-13C	2.00	67
Total PeCDD	ND	-----	1.000		1,2,3,4,6,7,8-HpCDF-13C	2.00	66
					1,2,3,4,7,8,9-HpCDF-13C	2.00	61
1,2,3,4,7,8-HxCDF	ND	-----	1.000		1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	ND	-----	1.000		OCDD-13C	4.00	63
2,3,4,6,7,8-HxCDF	ND	-----	1.000				
1,2,3,7,8,9-HxCDF	ND	-----	1.000		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1.00	-----	1.000	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.000		2,3,7,8-TCDD-37Cl4	0.20	71
1,2,3,6,7,8-HxCDD	ND	-----	1.000				
1,2,3,7,8,9-HxCDD	ND	-----	1.000				
Total HxCDD	ND	-----	1.000				
1,2,3,4,6,7,8-HpCDF	1.90	-----	1.000	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.000		Equivalence: 0.10 ng/Kg		
Total HpCDF	3.00	-----	1.000	J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	2.90	-----	1.000	J			
Total HpCDD	5.80	-----	1.000				
OCDF	2.90	-----	2.100	J			
OCDD	21.00	-----	2.100				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI010
Date Sampled: 06/06/06 08:31

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-08
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606078-08		
Lab Sample ID	1033426007		
Filename	U60624B_06		
Injected By	BAL		
Total Amount Extracted	10.8 g	Matrix	Soil
% Moisture	19.1	Dilution	10
Dry Weight Extracted	8.71 g	Collected	06/06/2006
ICAL Date	02/13/2006	Received	06/08/2006
CCal Filename(s)	U60624A_17 & U60624B_12	Extracted	06/11/2006
Method Blank ID	BLANK-9912	Analyzed	06/25/2006 08:58

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	2.30		2,3,7,8-TCDF-13C	2.00	75
Total TCDF	25	-----	2.30		2,3,7,8-TCDD-13C	2.00	89
					1,2,3,7,8-PeCDF-13C	2.00	78
2,3,7,8-TCDD	ND	-----	2.30		2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD	ND	-----	2.30		1,2,3,7,8-PeCDD-13C	2.00	93
					1,2,3,4,7,8-HxCDF-13C	2.00	116
1,2,3,7,8-PeCDF	ND	-----	11.00		1,2,3,6,7,8-HxCDF-13C	2.00	66
2,3,4,7,8-PeCDF	17	-----	11.00		2,3,4,6,7,8-HxCDF-13C	2.00	75
Total PeCDF	68	-----	11.00		1,2,3,7,8,9-HxCDF-13C	2.00	63
					1,2,3,4,7,8-HxCDD-13C	2.00	104
1,2,3,7,8-PeCDD	ND	-----	11.00		1,2,3,6,7,8-HxCDD-13C	2.00	64
Total PeCDD	ND	-----	11.00		1,2,3,4,6,7,8-HpCDF-13C	2.00	85
					1,2,3,4,7,8,9-HpCDF-13C	2.00	78
1,2,3,4,7,8-HxCDF	ND	-----	11.00		1,2,3,4,6,7,8-HpCDD-13C	2.00	91
1,2,3,6,7,8-HxCDF	ND	-----	11.00		OCDD-13C	4.00	79
2,3,4,6,7,8-HxCDF	ND	-----	11.00				
1,2,3,7,8,9-HxCDF	ND	-----	11.00		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	59	-----	11.00		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	11.00		2,3,7,8-TCDD-37Cl4	0.20	69
1,2,3,6,7,8-HxCDD	ND	-----	11.00				
1,2,3,7,8,9-HxCDD	ND	-----	11.00				
Total HxCDD	ND	-----	11.00				
1,2,3,4,6,7,8-HpCDF	-----	19	11.00	I	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	11.00		Equivalence: 9.4 ng/Kg		
Total HpCDF	25	-----	11.00		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	55	-----	11.00				
Total HpCDD	130	-----	11.00				
OCDF	46	-----	23.00				
OCDD	380	-----	23.00				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI003
Date Sampled: 06/06/06 09:16

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-09
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606078-09		
Lab Sample ID	1033426008		
Filename	F60620B_12		
Injected By	SMT		
Total Amount Extracted	11.7 g	Matrix	Soil
% Moisture	12.9	Dilution	NA
Dry Weight Extracted	10.2 g	Collected	06/06/2006
ICAL Date	05/31/2006	Received	06/08/2006
CCal Filename(s)	F60620A_18 & F60620B_16	Extracted	06/11/2006
Method Blank ID	BLANK-9912	Analyzed	06/21/2006 08:22

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	3.80	-----	0.20		2,3,7,8-TCDF-13C	2.00	79
Total TCDF	160.00	-----	0.20		2,3,7,8-TCDD-13C	2.00	82
					1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	0.27	-----	0.20	J	2,3,4,7,8-PeCDF-13C	2.00	86
Total TCDD	6.70	-----	0.20		1,2,3,7,8-PeCDD-13C	2.00	108
					1,2,3,4,7,8-HxCDF-13C	2.00	90
1,2,3,7,8-PeCDF	2.40	-----	0.98	J	1,2,3,6,7,8-HxCDF-13C	2.00	75
2,3,4,7,8-PeCDF	35.00	-----	0.98		2,3,4,6,7,8-HxCDF-13C	2.00	78
Total PeCDF	590.00	-----	0.98		1,2,3,7,8,9-HxCDF-13C	2.00	86
					1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	ND	-----	0.98		1,2,3,6,7,8-HxCDD-13C	2.00	70
Total PeCDD	7.00	-----	0.98		1,2,3,4,6,7,8-HpCDF-13C	2.00	66
					1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	3.40	-----	0.98	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	3.70	-----	0.98	J	OCDD-13C	4.00	58
2,3,4,6,7,8-HxCDF	11.00	-----	0.98				
1,2,3,7,8,9-HxCDF	2.00	-----	0.98	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	160.00	-----	0.98		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.98		2,3,7,8-TCDD-37Cl4	0.20	70
1,2,3,6,7,8-HxCDD	1.30	-----	0.98	J			
1,2,3,7,8,9-HxCDD	1.00	-----	0.98	J			
Total HxCDD	15.00	-----	0.98				
1,2,3,4,6,7,8-HpCDF	13.00	-----	0.98		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	1.20	-----	0.98	J	Equivalence: 21 ng/Kg		
Total HpCDF	25.00	-----	0.98		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	9.80	-----	0.98				
Total HpCDD	20.00	-----	0.98				
OCDF	8.00	-----	2.00	J			
OCDD	63.00	-----	2.00				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI011
Date Sampled: 06/06/06 08:11

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-10
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606078-10		
Lab Sample ID	1033426009		
Filename	F60620B_14		
Injected By	SMT		
Total Amount Extracted	12.5 g	Matrix	Soil
% Moisture	23.2	Dilution	NA
Dry Weight Extracted	9.61 g	Collected	06/06/2006
ICAL Date	05/31/2006	Received	06/08/2006
CCal Filename(s)	F60620A_18 & F60620B_16	Extracted	06/11/2006
Method Blank ID	BLANK-9912	Analyzed	06/21/2006 10:02

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	2.5	-----	0.25	A	2,3,7,8-TCDF-13C	2.00	75	
Total TCDF	67.0	-----	0.21		2,3,7,8-TCDD-13C	2.00	94	
					1,2,3,7,8-PeCDF-13C	2.00	111	
2,3,7,8-TCDD	-----	0.36	0.21	IA	2,3,4,7,8-PeCDF-13C	2.00	97	
Total TCDD	15.0	-----	0.21		1,2,3,7,8-PeCDD-13C	2.00	130	
					1,2,3,4,7,8-HxCDF-13C	2.00	100	
1,2,3,7,8-PeCDF	-----	34.00	1.00	E	1,2,3,6,7,8-HxCDF-13C	2.00	81	
2,3,4,7,8-PeCDF	18.0	-----	1.00		2,3,4,6,7,8-HxCDF-13C	2.00	73	
Total PeCDF	110.0	-----	1.00		1,2,3,7,8,9-HxCDF-13C	2.00	85	
					1,2,3,4,7,8-HxCDD-13C	2.00	83	
1,2,3,7,8-PeCDD	2.5	-----	1.00	J	1,2,3,6,7,8-HxCDD-13C	2.00	67	
Total PeCDD	16.0	-----	1.00		1,2,3,4,6,7,8-HpCDF-13C	2.00	50	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	41	
1,2,3,4,7,8-HxCDF	7.5	-----	1.00		1,2,3,4,6,7,8-HpCDD-13C	2.00	61	
1,2,3,6,7,8-HxCDF	-----	2.20	1.00	E	OCDD-13C	4.00	29	P
2,3,4,6,7,8-HxCDF	6.2	-----	1.00					
1,2,3,7,8,9-HxCDF	2.8	-----	1.00	J	1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	110.0	-----	1.00		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	1.7	-----	1.00	J	2,3,7,8-TCDD-37Cl4	0.20	92	
1,2,3,6,7,8-HxCDD	4.0	-----	1.00	J				
1,2,3,7,8,9-HxCDD	2.4	-----	1.00	J				
Total HxCDD	43.0	-----	1.00					
1,2,3,4,6,7,8-HpCDF	26.0	-----	1.00		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	3.0	-----	1.00	J	Equivalence: 14 ng/Kg			
Total HpCDF	47.0	-----	1.00		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	39.0	-----	1.00					
Total HpCDD	69.0	-----	1.00					
OCDF	23.0	-----	2.10					
OCDD	260.0	-----	2.10					

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI210
Date Sampled: 06/06/06 13:31

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-11
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606078-11		
Lab Sample ID	1033426010		
Filename	F60620B_13		
Injected By	SMT		
Total Amount Extracted	10.5 g	Matrix	Soil
% Moisture	7.4	Dilution	NA
Dry Weight Extracted	9.73 g	Collected	06/06/2006
ICAL Date	05/31/2006	Received	06/08/2006
CCal Filename(s)	F60620A_18 & F60620B_16	Extracted	06/11/2006
Method Blank ID	BLANK-9912	Analyzed	06/21/2006 09:12

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	2.3	-----	0.210		2,3,7,8-TCDF-13C	2.00	84
Total TCDF	53.0	-----	0.210		2,3,7,8-TCDD-13C	2.00	82
					1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	-----	0.210		2,3,4,7,8-PeCDF-13C	2.00	84
Total TCDD	5.3	-----	0.210		1,2,3,7,8-PeCDD-13C	2.00	103
					1,2,3,4,7,8-HxCDF-13C	2.00	88
1,2,3,7,8-PeCDF	1.4	-----	1.000	J	1,2,3,6,7,8-HxCDF-13C	2.00	74
2,3,4,7,8-PeCDF	12.0	-----	1.000		2,3,4,6,7,8-HxCDF-13C	2.00	78
Total PeCDF	140.0	-----	1.000		1,2,3,7,8,9-HxCDF-13C	2.00	83
					1,2,3,4,7,8-HxCDD-13C	2.00	83
1,2,3,7,8-PeCDD	ND	-----	1.000		1,2,3,6,7,8-HxCDD-13C	2.00	69
Total PeCDD	5.9	-----	1.000		1,2,3,4,6,7,8-HpCDF-13C	2.00	67
					1,2,3,4,7,8,9-HpCDF-13C	2.00	60
1,2,3,4,7,8-HxCDF	2.5	-----	1.000	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	75
1,2,3,6,7,8-HxCDF	3.2	-----	1.000	J	OCDD-13C	4.00	59
2,3,4,6,7,8-HxCDF	3.6	-----	1.000	J			
1,2,3,7,8,9-HxCDF	1.1	-----	1.000	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	50.0	-----	1.000		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.000		2,3,7,8-TCDD-37Cl4	0.20	71
1,2,3,6,7,8-HxCDD	1.8	-----	1.000	J			
1,2,3,7,8,9-HxCDD	1.2	-----	1.000	J			
Total HxCDD	18.0	-----	1.000				
1,2,3,4,6,7,8-HpCDF	11.0	-----	1.000		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	1.1	-----	1.000	J	Equivalence: 8.1 ng/Kg		
Total HpCDF	20.0	-----	1.000		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	15.0	-----	1.000				
Total HpCDD	29.0	-----	1.000				
OCDF	11.0	-----	2.100				
OCDD	87.0	-----	2.100				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI206
Date Sampled: 06/06/06 10:35

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-12
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606078-12		
Lab Sample ID	1033426011		
Filename	F60620B_09		
Injected By	SMT		
Total Amount Extracted	11.4 g	Matrix	Soil
% Moisture	16.0	Dilution	NA
Dry Weight Extracted	9.60 g	Collected	06/06/2006
ICAL Date	05/31/2006	Received	06/08/2006
CCal Filename(s)	F60620A_18 & F60620B_16	Extracted	06/11/2006
Method Blank ID	BLANK-9912	Analyzed	06/21/2006 05:52

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	9.20	-----	0.210		2,3,7,8-TCDF-13C	2.00	77
Total TCDF	120.00	-----	0.210		2,3,7,8-TCDD-13C	2.00	76
					1,2,3,7,8-PeCDF-13C	2.00	78
2,3,7,8-TCDD	0.61	-----	0.210	J	2,3,4,7,8-PeCDF-13C	2.00	81
Total TCDD	18.00	-----	0.210		1,2,3,7,8-PeCDD-13C	2.00	99
					1,2,3,4,7,8-HxCDF-13C	2.00	82
1,2,3,7,8-PeCDF	4.10	-----	1.000	J	1,2,3,6,7,8-HxCDF-13C	2.00	69
2,3,4,7,8-PeCDF	12.00	-----	1.000		2,3,4,6,7,8-HxCDF-13C	2.00	74
Total PeCDF	160.00	-----	1.000		1,2,3,7,8,9-HxCDF-13C	2.00	80
					1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	1.40	-----	1.000	J	1,2,3,6,7,8-HxCDD-13C	2.00	65
Total PeCDD	15.00	-----	1.000		1,2,3,4,6,7,8-HpCDF-13C	2.00	62
					1,2,3,4,7,8,9-HpCDF-13C	2.00	59
1,2,3,4,7,8-HxCDF	3.40	-----	1.000	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	73
1,2,3,6,7,8-HxCDF	4.10	-----	1.000	J	OCDD-13C	4.00	61
2,3,4,6,7,8-HxCDF	4.00	-----	1.000	J			
1,2,3,7,8,9-HxCDF	1.00	-----	1.000	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	49.00	-----	1.000		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.000		2,3,7,8-TCDD-37Cl4	0.20	68
1,2,3,6,7,8-HxCDD	1.80	-----	1.000	J			
1,2,3,7,8,9-HxCDD	1.30	-----	1.000	J			
Total HxCDD	20.00	-----	1.000				
1,2,3,4,6,7,8-HpCDF	13.00	-----	1.000		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	1.50	-----	1.000	J	Equivalence: 11 ng/Kg		
Total HpCDF	21.00	-----	1.000		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	11.00	-----	1.000				
Total HpCDD	23.00	-----	1.000				
OCDF	12.00	-----	2.100				
OCDD	58.00	-----	2.100				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI209
Date Sampled: 06/06/06 13:45

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-14
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606078-14		
Lab Sample ID	1033426012		
Filename	F60620B_03		
Injected By	SMT		
Total Amount Extracted	12.6 g	Matrix	Soil
% Moisture	11.5	Dilution	NA
Dry Weight Extracted	11.1 g	Collected	06/06/2006
ICAL Date	05/31/2006	Received	06/08/2006
CCal Filename(s)	F60620A_18 & F60620B_16	Extracted	06/11/2006
Method Blank ID	BLANK-9912	Analyzed	06/21/2006 00:52

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	2.50	-----	0.180		2,3,7,8-TCDF-13C	2.00	79
Total TCDF	36.00	-----	0.180		2,3,7,8-TCDD-13C	2.00	76
					1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	0.37	-----	0.180	J	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	7.00	-----	0.180		1,2,3,7,8-PeCDD-13C	2.00	91
					1,2,3,4,7,8-HxCDF-13C	2.00	79
1,2,3,7,8-PeCDF	1.70	-----	0.900	J	1,2,3,6,7,8-HxCDF-13C	2.00	70
2,3,4,7,8-PeCDF	4.30	-----	0.900	J	2,3,4,6,7,8-HxCDF-13C	2.00	74
Total PeCDF	51.00	-----	0.900		1,2,3,7,8,9-HxCDF-13C	2.00	78
					1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	ND	-----	0.900		1,2,3,6,7,8-HxCDD-13C	2.00	66
Total PeCDD	4.50	-----	0.900	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	65
					1,2,3,4,7,8,9-HpCDF-13C	2.00	60
1,2,3,4,7,8-HxCDF	2.10	-----	0.900	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	76
1,2,3,6,7,8-HxCDF	2.00	-----	0.900	J	OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	2.90	-----	0.900	J			
1,2,3,7,8,9-HxCDF	ND	-----	0.900		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	22.00	-----	0.900		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.900		2,3,7,8-TCDD-37Cl4	0.20	66
1,2,3,6,7,8-HxCDD	1.10	-----	0.900	J			
1,2,3,7,8,9-HxCDD	ND	-----	0.900				
Total HxCDD	11.00	-----	0.900				
1,2,3,4,6,7,8-HpCDF	9.80	-----	0.900		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	1.20	-----	0.900	J	Equivalence: 4.1 ng/Kg		
Total HpCDF	18.00	-----	0.900		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	14.00	-----	0.900				
Total HpCDD	32.00	-----	0.900				
OCDF	11.00	-----	1.800				
OCDD	170.00	-----	1.800				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI207
Date Sampled: 06/06/06 10:14

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-15
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606078-15		
Lab Sample ID	1033426013		
Filename	F60620B_07		
Injected By	SMT		
Total Amount Extracted	11.0 g	Matrix	Soil
% Moisture	6.0	Dilution	NA
Dry Weight Extracted	10.4 g	Collected	06/06/2006
ICAL Date	05/31/2006	Received	06/08/2006
CCal Filename(s)	F60620A_18 & F60620B_16	Extracted	06/11/2006
Method Blank ID	BLANK-9912	Analyzed	06/21/2006 04:12

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.190	2,3,7,8-TCDF-13C	2.00	57
Total TCDF	ND	-----	0.190	2,3,7,8-TCDD-13C	2.00	60
				1,2,3,7,8-PeCDF-13C	2.00	60
2,3,7,8-TCDD	ND	-----	0.190	2,3,4,7,8-PeCDF-13C	2.00	64
Total TCDD	ND	-----	0.190	1,2,3,7,8-PeCDD-13C	2.00	82
				1,2,3,4,7,8-HxCDF-13C	2.00	65
1,2,3,7,8-PeCDF	ND	-----	0.960	1,2,3,6,7,8-HxCDF-13C	2.00	57
2,3,4,7,8-PeCDF	ND	-----	0.960	2,3,4,6,7,8-HxCDF-13C	2.00	59
Total PeCDF	ND	-----	0.960	1,2,3,7,8,9-HxCDF-13C	2.00	64
				1,2,3,4,7,8-HxCDD-13C	2.00	64
1,2,3,7,8-PeCDD	ND	-----	0.960	1,2,3,6,7,8-HxCDD-13C	2.00	52
Total PeCDD	ND	-----	0.960	1,2,3,4,6,7,8-HpCDF-13C	2.00	52
				1,2,3,4,7,8,9-HpCDF-13C	2.00	48
1,2,3,4,7,8-HxCDF	ND	-----	0.960	1,2,3,4,6,7,8-HpCDD-13C	2.00	60
1,2,3,6,7,8-HxCDF	ND	-----	0.960	OCDD-13C	4.00	50
2,3,4,6,7,8-HxCDF	ND	-----	0.960			
1,2,3,7,8,9-HxCDF	ND	-----	0.960	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.960	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.960	2,3,7,8-TCDD-37Cl4	0.20	53
1,2,3,6,7,8-HxCDD	ND	-----	0.960			
1,2,3,7,8,9-HxCDD	ND	-----	0.960			
Total HxCDD	ND	-----	0.960			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.960	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.960	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	0.960	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.960			
Total HpCDD	ND	-----	0.960			
OCDF	ND	-----	1.900			
OCDD	ND	-----	1.900			

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI001
Date Sampled: 06/06/06 11:01

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-16
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606078-16		
Lab Sample ID	1033426014		
Filename	F60620B_08		
Injected By	SMT		
Total Amount Extracted	11.6 g	Matrix	Soil
% Moisture	20.3	Dilution	NA
Dry Weight Extracted	9.25 g	Collected	06/06/2006
ICAL Date	05/31/2006	Received	06/08/2006
CCal Filename(s)	F60620A_18 & F60620B_16	Extracted	06/11/2006
Method Blank ID	BLANK-9912	Analyzed	06/21/2006 05:02

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	1.80	-----	0.220		2,3,7,8-TCDF-13C	2.00	76
Total TCDF	26.00	-----	0.220		2,3,7,8-TCDD-13C	2.00	77
					1,2,3,7,8-PeCDF-13C	2.00	72
2,3,7,8-TCDD	0.24	-----	0.220	J	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	9.20	-----	0.220		1,2,3,7,8-PeCDD-13C	2.00	93
					1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	ND	-----	1.100		1,2,3,6,7,8-HxCDF-13C	2.00	68
2,3,4,7,8-PeCDF	5.70	-----	1.100		2,3,4,6,7,8-HxCDF-13C	2.00	70
Total PeCDF	61.00	-----	1.100		1,2,3,7,8,9-HxCDF-13C	2.00	76
					1,2,3,4,7,8-HxCDD-13C	2.00	76
1,2,3,7,8-PeCDD	ND	-----	1.100		1,2,3,6,7,8-HxCDD-13C	2.00	61
Total PeCDD	8.70	-----	1.100		1,2,3,4,6,7,8-HpCDF-13C	2.00	60
					1,2,3,4,7,8,9-HpCDF-13C	2.00	53
1,2,3,4,7,8-HxCDF	2.10	-----	1.100	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	69
1,2,3,6,7,8-HxCDF	2.10	-----	1.100	J	OCDD-13C	4.00	56
2,3,4,6,7,8-HxCDF	2.20	-----	1.100	J			
1,2,3,7,8,9-HxCDF	ND	-----	1.100		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	25.00	-----	1.100		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	1.100		2,3,7,8-TCDD-37Cl4	0.20	67
1,2,3,6,7,8-HxCDD	2.70	-----	1.100	J			
1,2,3,7,8,9-HxCDD	2.40	-----	1.100	J			
Total HxCDD	27.00	-----	1.100				
1,2,3,4,6,7,8-HpCDF	10.00	-----	1.100		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	1.100		Equivalence: 5.2 ng/Kg		
Total HpCDF	22.00	-----	1.100		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	39.00	-----	1.100				
Total HpCDD	76.00	-----	1.100				
OCDF	14.00	-----	2.200				
OCDD	270.00	-----	2.200				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI007
Date Sampled: 06/06/06 16:23

ESS Laboratory Work Order: 0606078
ESS Laboratory Sample ID: 0606078-17
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606078-17		
Lab Sample ID	1033426015		
Filename	F60622A_13		
Injected By	SMT		
Total Amount Extracted	12.2 g	Matrix	Soil
% Moisture	37.1	Dilution	NA
Dry Weight Extracted	7.68 g	Collected	06/06/2006
ICAL Date	05/31/2006	Received	06/08/2006
CCal Filename(s)	F60621A_12 & F60622A_16	Extracted	06/11/2006
Method Blank ID	BLANK-9912	Analyzed	06/22/2006 08:02

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	370	-----	0.28	A	2,3,7,8-TCDF-13C	2.00	73	
Total TCDF	5400	-----	0.26		2,3,7,8-TCDD-13C	2.00	76	
					1,2,3,7,8-PeCDF-13C	2.00	75	
2,3,7,8-TCDD	29	-----	0.28	A	2,3,4,7,8-PeCDF-13C	2.00	77	
Total TCDD	800	-----	0.26		1,2,3,7,8-PeCDD-13C	2.00	98	
					1,2,3,4,7,8-HxCDF-13C	2.00	82	
1,2,3,7,8-PeCDF	-----	540	1.40	EA	1,2,3,6,7,8-HxCDF-13C	2.00	66	
2,3,4,7,8-PeCDF	1000	-----	1.30		2,3,4,6,7,8-HxCDF-13C	2.00	67	
Total PeCDF	7100	-----	1.30		1,2,3,7,8,9-HxCDF-13C	2.00	68	
					1,2,3,4,7,8-HxCDD-13C	2.00	70	
1,2,3,7,8-PeCDD	110	-----	1.30		1,2,3,6,7,8-HxCDD-13C	2.00	60	
Total PeCDD	1400	-----	1.30		1,2,3,4,6,7,8-HpCDF-13C	2.00	50	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	41	
1,2,3,4,7,8-HxCDF	620	-----	1.60	A	1,2,3,4,6,7,8-HpCDD-13C	2.00	55	
1,2,3,6,7,8-HxCDF	580	-----	1.30		OCDD-13C	4.00	32	P
2,3,4,6,7,8-HxCDF	590	-----	1.90	A				
1,2,3,7,8,9-HxCDF	230	-----	1.30		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	6800	-----	1.30		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	90	-----	1.30		2,3,7,8-TCDD-37Cl4	0.20	74	
1,2,3,6,7,8-HxCDD	170	-----	1.70	A				
1,2,3,7,8,9-HxCDD	130	-----	1.30					
Total HxCDD	2200	-----	1.30					
1,2,3,4,6,7,8-HpCDF	2000	-----	1.30		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	250	-----	1.30		Equivalence: 900 ng/Kg			
Total HpCDF	3100	-----	1.30		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	830	-----	1.30					
Total HpCDD	1700	-----	1.30					
OCDF	860	-----	2.60					
OCDD	2000	-----	2.60					

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Laboratory Control Spike Results

Client - ESS Laboratory

Lab Sample ID	LCS-9895		
Filename	F60613A_06	Matrix	Solid
Total Amount Extracted	20.7 g	Dilution	NA
ICAL Date	05/31/2006	Extracted	06/09/2006
CCal Filename(s)	F60613A_05 & F60613A_20	Analyzed	06/13/2006 13:36
Method Blank ID	BLANK-9894	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.18	91	2,3,7,8-TCDF-13C	2.00	93
				2,3,7,8-TCDD-13C	2.00	81
				1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	0.20	0.20	99	2,3,4,7,8-PeCDF-13C	2.00	105
				1,2,3,7,8-PeCDD-13C	2.00	121
				1,2,3,4,7,8-HxCDF-13C	2.00	95
1,2,3,7,8-PeCDF	1.00	1.02	102	1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	1.00	0.93	93	2,3,4,6,7,8-HxCDF-13C	2.00	84
				1,2,3,7,8,9-HxCDF-13C	2.00	90
				1,2,3,4,7,8-HxCDD-13C	2.00	92
1,2,3,7,8-PeCDD	1.00	0.87	87	1,2,3,6,7,8-HxCDD-13C	2.00	76
				1,2,3,4,6,7,8-HpCDF-13C	2.00	60
				1,2,3,4,7,8,9-HpCDF-13C	2.00	55
1,2,3,4,7,8-HxCDF	1.00	0.87	87	1,2,3,4,6,7,8-HpCDD-13C	2.00	63
1,2,3,6,7,8-HxCDF	1.00	0.94	94	OCDD-13C	4.00	60
2,3,4,6,7,8-HxCDF	1.00	0.93	93			
1,2,3,7,8,9-HxCDF	1.00	0.91	91	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	0.97	97	2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	1.00	1.01	101			
1,2,3,7,8,9-HxCDD	1.00	0.96	96			
1,2,3,4,6,7,8-HpCDF	1.00	1.03	103			
1,2,3,4,7,8,9-HpCDF	1.00	1.04	104			
1,2,3,4,6,7,8-HpCDD	1.00	0.85	85			
OCDF	2.00	2.04	102			
OCDD	2.00	1.79	89			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range
X = Background subtracted value
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Laboratory Control Spike Results

Client - ESS Laboratory

Lab Sample ID	LCS-9913		
Filename	F60613A_07	Matrix	Solid
Total Amount Extracted	20.0 g	Dilution	NA
ICAL Date	05/31/2006	Extracted	06/11/2006
CCal Filename(s)	F60613A_05 & F60613A_20	Analyzed	06/13/2006 14:23
Method Blank ID	BLANK-9912	Injected By	BAL

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.17	86	2,3,7,8-TCDF-13C	2.00	90
				2,3,7,8-TCDD-13C	2.00	86
				1,2,3,7,8-PeCDF-13C	2.00	84
2,3,7,8-TCDD	0.20	0.18	89	2,3,4,7,8-PeCDF-13C	2.00	111
				1,2,3,7,8-PeCDD-13C	2.00	132
				1,2,3,4,7,8-HxCDF-13C	2.00	102
1,2,3,7,8-PeCDF	1.00	1.00	100	1,2,3,6,7,8-HxCDF-13C	2.00	89
2,3,4,7,8-PeCDF	1.00	0.94	94	2,3,4,6,7,8-HxCDF-13C	2.00	90
				1,2,3,7,8,9-HxCDF-13C	2.00	97
				1,2,3,4,7,8-HxCDD-13C	2.00	94
1,2,3,7,8-PeCDD	1.00	0.85	85	1,2,3,6,7,8-HxCDD-13C	2.00	83
				1,2,3,4,6,7,8-HpCDF-13C	2.00	70
				1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	1.00	0.87	87	1,2,3,4,6,7,8-HpCDD-13C	2.00	74
1,2,3,6,7,8-HxCDF	1.00	0.93	93	OCDD-13C	4.00	71
2,3,4,6,7,8-HxCDF	1.00	0.90	90			
1,2,3,7,8,9-HxCDF	1.00	0.89	89	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	0.96	96	2,3,7,8-TCDD-37Cl4	0.20	77
1,2,3,6,7,8-HxCDD	1.00	1.00	100			
1,2,3,7,8,9-HxCDD	1.00	0.98	98			
1,2,3,4,6,7,8-HpCDF	1.00	0.99	99			
1,2,3,4,7,8,9-HpCDF	1.00	1.04	104			
1,2,3,4,6,7,8-HpCDD	1.00	0.81	81			
OCDF	2.00	1.99	100			
OCDD	2.00	1.79	90			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range
X = Background subtracted value
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Spike Sample Results

Client - ESS Laboratory

Client's Sample ID	0606078-05-MS		
Lab Sample ID	1033426005-MS		
Filename	F60620A_05	Matrix	Soil
Total Amount Extracted	11.2 g	Dilution	NA
ICAL Date	05/31/2006	Extracted	06/11/2006
CCal Filename(s)	F60620A_02 & F60620A_18	Analyzed	06/20/2006 11:33
Method Blank ID	BLANK-9912	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	1.10	550	2,3,7,8-TCDF-13C	2.00	80
				2,3,7,8-TCDD-13C	2.00	83
				1,2,3,7,8-PeCDF-13C	2.00	74
2,3,7,8-TCDD	0.20	0.20	102	2,3,4,7,8-PeCDF-13C	2.00	72
				1,2,3,7,8-PeCDD-13C	2.00	101
				1,2,3,4,7,8-HxCDF-13C	2.00	111
1,2,3,7,8-PeCDF	1.00	3.00	300	1,2,3,6,7,8-HxCDF-13C	2.00	87
2,3,4,7,8-PeCDF	1.00	4.55	455	2,3,4,6,7,8-HxCDF-13C	2.00	78
				1,2,3,7,8,9-HxCDF-13C	2.00	78
				1,2,3,4,7,8-HxCDD-13C	2.00	91
1,2,3,7,8-PeCDD	1.00	1.26	126	1,2,3,6,7,8-HxCDD-13C	2.00	64
				1,2,3,4,6,7,8-HpCDF-13C	2.00	55
				1,2,3,4,7,8,9-HpCDF-13C	2.00	50
1,2,3,4,7,8-HxCDF	1.00	2.49	249	1,2,3,4,6,7,8-HpCDD-13C	2.00	78
1,2,3,6,7,8-HxCDF	1.00	2.19	219	OCDD-13C	4.00	54
2,3,4,6,7,8-HxCDF	1.00	2.52	252			
1,2,3,7,8,9-HxCDF	1.00	1.41	141	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.45	145	2,3,7,8-TCDD-37Cl4	0.20	73
1,2,3,6,7,8-HxCDD	1.00	2.59	259			
1,2,3,7,8,9-HxCDD	1.00	1.81	181			
1,2,3,4,6,7,8-HpCDF	1.00	6.76	676			
1,2,3,4,7,8,9-HpCDF	1.00	1.68	168			
1,2,3,4,6,7,8-HpCDD	1.00	13.91	1391			
OCDF	2.00	8.39	420			
OCDD	2.00	77.89	3895			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range of 40-135%
X = Background subtracted value
E = PCDE Interference
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

Pace Analytical™
Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Spike Sample Results

Client - ESS Laboratory

Client's Sample ID	0606078-05-MSD		
Lab Sample ID	1033426005-MSD		
Filename	F60620A_06	Matrix	Soil
Total Amount Extracted	11.3 g	Dilution	NA
ICAL Date	05/31/2006	Extracted	06/11/2006
CCal Filename(s)	F60620A_02 & F60620A_18	Analyzed	06/20/2006 12:23
Method Blank ID	BLANK-9912	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	1.39	695	2,3,7,8-TCDF-13C	2.00	77
				2,3,7,8-TCDD-13C	2.00	80
				1,2,3,7,8-PeCDF-13C	2.00	67
2,3,7,8-TCDD	0.20	0.21	106	2,3,4,7,8-PeCDF-13C	2.00	62
				1,2,3,7,8-PeCDD-13C	2.00	91
				1,2,3,4,7,8-HxCDF-13C	2.00	86
1,2,3,7,8-PeCDF	1.00	2.37	237	1,2,3,6,7,8-HxCDF-13C	2.00	67
2,3,4,7,8-PeCDF	1.00	4.64	464	2,3,4,6,7,8-HxCDF-13C	2.00	61
				1,2,3,7,8,9-HxCDF-13C	2.00	60
				1,2,3,4,7,8-HxCDD-13C	2.00	78
1,2,3,7,8-PeCDD	1.00	1.30	130	1,2,3,6,7,8-HxCDD-13C	2.00	54
				1,2,3,4,6,7,8-HpCDF-13C	2.00	48
				1,2,3,4,7,8,9-HpCDF-13C	2.00	40
1,2,3,4,7,8-HxCDF	1.00	2.72	272	1,2,3,4,6,7,8-HpCDD-13C	2.00	63
1,2,3,6,7,8-HxCDF	1.00	2.35	235	OCDD-13C	4.00	49
2,3,4,6,7,8-HxCDF	1.00	2.61	261			
1,2,3,7,8,9-HxCDF	1.00	1.44	144	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.42	142	2,3,7,8-TCDD-37Cl4	0.20	63
1,2,3,6,7,8-HxCDD	1.00	2.40	240			
1,2,3,7,8,9-HxCDD	1.00	1.93	193			
1,2,3,4,6,7,8-HpCDF	1.00	6.98	698			
1,2,3,4,7,8,9-HpCDF	1.00	1.73	173			
1,2,3,4,6,7,8-HpCDD	1.00	14.36	1436			
OCDF	2.00	8.20	410			
OCDD	2.00	85.51	4275			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range of 40-135%
X = Background subtracted value
E = PCDE Interference
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

Report No.....1033426

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Spike Sample Results

Client - ESS Laboratory

				Dry Weights	
Client Sample ID	0606078-05				
Lab Sample ID	1033426005	Sample Filename	F60620A_16	Sample Amount	7.42 g
MS ID	1033426005-MS	MS Filename	F60620A_05	MS Amount	7.2 g
MSD ID	1033426005-MSD	MSD Filename	F60620A_06	MSD Amount	7.3 g

Analyte	Sample Conc. ng/Kg	MS/MSD Qs (ng)	MS Qm (ng)	MSD Qm (ng)	RPD	Background Subtracted MS % Rec.	Background Subtracted MSD % Rec.	Background Subtracted RPD
2,3,7,8-TCDF	145.028	0.20	1.10	1.39	23.2	30	168	138.9
2,3,7,8-TCDD	6.542	0.20	0.20	0.21	4.2	78	83	5.0
1,2,3,7,8-PeCDF	125.888	1.00	3.00	2.37	23.5	210	146	36.2
2,3,4,7,8-PeCDF	265.963	1.00	4.55	4.64	2.2	264	271	2.8
1,2,3,7,8-PeCDD	24.711	1.00	1.26	1.30	2.8	109	112	3.1
1,2,3,4,7,8-HxCDF	229.173	1.00	2.49	2.72	8.6	85	106	21.5
1,2,3,6,7,8-HxCDF	176.080	1.00	2.19	2.35	7.1	92	107	14.6
2,3,4,6,7,8-HxCDF	234.452	1.00	2.52	2.61	3.8	83	91	8.8
1,2,3,7,8,9-HxCDF	43.645	1.00	1.41	1.44	2.2	110	113	2.5
1,2,3,4,7,8-HxCDD	63.571	1.00	1.45	1.42	1.5	99	96	2.8
1,2,3,6,7,8-HxCDD	163.213	1.00	2.59	2.40	7.6	142	121	15.5
1,2,3,7,8,9-HxCDD	115.512	1.00	1.81	1.93	6.0	99	109	9.8
1,2,3,4,6,7,8-HpCDF	989.452	1.00	6.76	6.98	3.2	0	0	0.0
1,2,3,4,7,8,9-HpCDF	111.794	1.00	1.68	1.73	3.0	88	92	4.5
1,2,3,4,6,7,8-HpCDD	2171.512	1.00	13.91	14.36	3.2	0	0	0.0
OCDF	1213.151	2.00	8.39	8.20	2.3	0	0	0.0
OCDD	14985.052	2.00	77.89	85.51	9.3	0	0	0.0

Definitions

MS = Matrix Spike
MSD = Matrix Spike Duplicate
Qm = Quantity Measured
Qs = Quantity Spiked
% Rec. = Percent Recovery
RPD = Relative Percent Difference

CDD = Chlorinated dibenzo-p-dioxin
CDF = Chlorinated dibenzo-p-furan
T = Tetra
Pe = Penta
Hx = Hexa
Hp = Hepta
O = Octa

Sample and Cooler Receipt Checklist

Client: Mactec
Client Project ID: _____
Shipped/Delivered Via: Client

ESS Project ID: 06060078
Date Project Due: 6/12/06
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **5.0**		16. Are ESS labels on correct containers?	(Yes) No
Iced With: **Icepacks**		17. Were samples received intact?	(Yes) No
6. Was COC included with samples?	Yes	ESS Sample IDs:	01-03
7. Was COC signed and dated by client?	Yes	Sub Lab:	Pace
8. Does the COC match the sample	Yes	Analysis:	DIOXINS
9. Is COC complete and correct?	Yes	TAT:	STD.

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	2 oz Soil Jar	1	NP
1	Yes	40 ml - VOA	1	MeOH
1	Yes	40 ml - VOA	2	other
1	Yes	8 oz Soil Jar	2	NP
2	Yes	2 oz Soil Jar	1	NP
2	Yes	40 ml - VOA	1	MeOH
2	Yes	40 ml - VOA	2	other
2	Yes	8 oz Soil Jar	2	NP
3	Yes	2 oz Soil Jar	1	NP
3	Yes	40 ml - VOA	1	MeOH
3	Yes	40 ml - VOA	2	other
3	Yes	8 oz Soil Jar	2	NP

Completed By: JTD JTD Date/Time: 6-5-06
Reviewed By: ZO Date/Time: 6-5-06

Sample and Cooler Receipt Checklist

Client: Mactec
Client Project ID: _____
Shipped/Delivered Via: Client

ESS Project ID: 06060078
Date Project Due: 6/12/06
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **5.0**		16. Are ESS labels on correct containers?	Yes | No
Iced With: **Icepacks**		17. Were samples received intact?	Yes | No
6. Was COC included with samples?	Yes	ESS Sample IDs:	0605078- 01-05, 07-12, 14-17
7. Was COC signed and dated by client?	Yes	Sub Lab:	Pace
8. Does the COC match the sample	Yes	Analysis:	Dioxins/Furan
9. Is COC complete and correct?	Yes	TAT:	Std (15 day)

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	2 oz Soil Jar	1	NP
1	Yes	40 ml - VOA	1	MeOH
1	Yes	40 ml - VOA	2	other
1	Yes	8 oz Soil Jar	2	NP
2	Yes	2 oz Soil Jar	1	NP
2	Yes	40 ml - VOA	1	MeOH
2	Yes	40 ml - VOA	2	other
2	Yes	8 oz Soil Jar	2	NP
3	Yes	2 oz Soil Jar	1	NP
3	Yes	40 ml - VOA	1	MeOH
3	Yes	40 ml - VOA	2	other
3	Yes	8 oz Soil Jar	2	NP
4	Yes	4 oz Soil Jar	1	NP
4	Yes	40 ml - VOA	2	MeOH
4	Yes	40 ml - VOA	2	other
4	Yes	8 oz Soil Jar	2	NP
5	Yes	4 oz Soil Jar	1	NP
5	Yes	40 ml - VOA	2	MeOH
5	Yes	40 ml - VOA	2	other
5	Yes	8 oz Soil Jar	2	NP
6	Yes	8 oz Soil Jar	1	NP
7	Yes	4 oz Soil Jar	1	NP
7	Yes	8 oz Soil Jar	2	NP
8	Yes	4 oz Soil Jar	1	NP
8	Yes	40 ml - VOA	1	MeOH

Sample and Cooler Receipt Checklist

Client: Mactec ESS Project ID: 06060078

8	Yes	40 ml - VOA	2	other
8	Yes	8 oz Soil Jar	2	NP
9	Yes	4 oz Soil Jar	1	NP
9	Yes	40 ml - VOA	1	MeOH
9	Yes	40 ml - VOA	2	other
9	Yes	8 oz Soil Jar	2	NP
10	Yes	4 oz Soil Jar	1	NP
10	Yes	40 ml - VOA	1	MeOH
10	Yes	40 ml - VOA	2	other
10	Yes	8 oz Soil Jar	2	NP
11	Yes	4 oz Soil Jar	1	NP
11	Yes	8 oz Soil Jar	2	NP
12	Yes	4 oz Soil Jar	1	NP
12	Yes	8 oz Soil Jar	2	NP
13	Yes	40 ml - VOA	1	other
14	Yes	4 oz Soil Jar	1	NP
14	Yes	8 oz Soil Jar	2	NP
15	Yes	4 oz Soil Jar	1	NP
15	Yes	8 oz Soil Jar	2	NP
16	Yes	4 oz Soil Jar	1	NP
16	Yes	8 oz Soil Jar	2	NP
17	Yes	4 oz Soil Jar	1	NP
17	Yes	40 ml - VOA	1	MeOH
17	Yes	40 ml - VOA	2	other
17	Yes	8 oz Soil Jar	2	NP
18	Yes	40 ml - VOA	1	MeOH

Completed By: JEL Date/Time: 6/6/06

Reviewed By: EO Date/Time: 6/6/06

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 3

Turn Time ___ Standard Other ___
If faster than 5 days, prior approval by laboratory is required # ___

State where samples were collected from:
MA RI CT NH NJ NY ME Other ___

Is this project for any of the following:
MA-MCP Navy USACE Other ___

Reporting Limits

ESS LAB PROJECT ID: 0606078

Electronic Deliverable ___ Yes ___ No
Format: Excel ___ Access ___ PDF ___ Other ___

Co. Name	Project #	Project Name (20 Char. or less)
MACTEC		GORHAM SITE

Contact Person	Address
CHRIS RICARDI	

City	State	Zip	PO#

Telephone #	Fax #	Email Address
207 775 5401		

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	8260 624 524.2 VOA	8021 MTBE/BTEX	8015 GRO VPH w/targets	8100 TPH	EPH w/PAHs	8081 Pesticides	8082 PCB	8270 625 PAH SVOA	RCRA5	RCRA8 PP13 TAL23	TCLP-RCRA8	MCP-METALS (13)	MCP-METALS (13) w/Hg	8015 DRO EPH 4 Diesel	608 Pesticides 608 PCB	VOA Low Level	VOA (MeOH)	PAH, Pest, PCB, 13 MCP METALS	DI-KIN/F-MAN
1	6-5-06	1505		X	S	SS-SI006	S	6	G/V																2	1	2	1
2	6-5-06	1530		X	S	SS-SI005	S	6	G/V																2	1	2	1
3	6-5-06	1550		X	S	SS-SI004	S	6	G/V																2	1	2	1
					S	TB																						
					G	FD																						

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ___
Cooler Temp: 5.0

Internal Use Only
[ ] Pickup
[ ] Technicians ___

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___

Sampled by: E. SANDIN

Comments: No odor/PID indication of VOCs

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
E Sandin	6/5/06 1700	A Davis	6/5/06 1700				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time ___ Standard Other ___
If faster than 5 days, prior approval by laboratory is required # ___

State where samples were collected from:
MA RI CT NH NJ NY ME Other ___

Is this project for any of the following:
MA-MCP Navy USACE Other ___

Reporting Limits

ESS LAB PROJECT ID: 0606078

Electronic Deliverable ___ Yes ___ No
Format: Excel ___ Access ___ PDF ___ Other ___

Co. Name: MACTEC
Project #:
Project Name (20 Char. or less): GORHAM SITE
Contact Person: CRIS RICARDI
Address:
City State Zip
PO#:
Telephone #: 207 775 5401
Fax #:
Email Address:

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (25 Char. or less)	Pres Code	Number of Containers	Type of Containers	8260 VOA / 624 / 524.2	8021 MTBE/BTEX / 8015 GRO / VPH w/targets	8100 TPH / 8015 DRO	EPH w/o PAHs / EPH w/PAHs / EPH 4 Diesel	8081 Pesticides / 8082 PCB / 608 Pesticides / 608 PCB	8270 SVOA / 625 / PAH 8270	RCRA8 Metals	RCRA8 PP13 TAL23	TCLP-RCRA6 / NBC7	MCP-METALS (13) / MCP-METALS (13) w/Hg	VOA LL	VOA MEOH	PAH/PEST/PCB/13 PPH metals	DIOXIN/FURANS	PAH/PEST/PCBs
4	6-6-06	1452		X	S	SS-SI008		7	G											2	2	2	1	
5	6-6-06	1452		X	S	SS-SI008 DUP/MS MSD		7	G											2	2	2	1	
6	6-6-06	1359		X	S	SS-SI BK2		1	G													1		
7	6-6-06	1117		X	S	SS-SI208		3	G														1	2
8	6-6-06	0831		X	S	SS-SI010		6	G											2	1	2	1	
9	6-6-06	0916		X	S	SS-SI003		6	G											2	1	2	1	
10	6-6-06	0811		X	S	SS-SI011		6	G											2	1	2	1	
11	6-6-06	1331		X	S	SS-SI210		3	G														1	2
12	6-6-06	1035		X	S	SS-SI206		3	G														1	2
13	6-6-06	1600				TB-1 (TRIP BLANK)		1	G											1				

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ✓
Cooler Temp: 2-5

Internal Use Only
[ ] Pickup
[ ] Technicians ___

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___

Sampled by: ERIC SANDIN

Comments: no odor or PID readings

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	6/6/06 1730	[signature]	6/6/06 1730				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

↑ PAH only

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time ___ Standard Other ___
If faster than 5 days, prior approval by laboratory is required # ___

State where samples were collected from:
MA (RI) CT NH NJ NY ME Other ___

Is this project for any of the following:
MA-MCP Navy USACE Other ___

Reporting Limits

ESS LAB PROJECT ID: 0606078

Electronic Deliverable ___ Yes ___ No
Format: Excel__ Access__ PDF__ Other___

Co. Name: MACTEC
Project #:
Project Name (20 Char. or less): GORHAM SITE
Contact Person: CRIS RICARDI
Address:
City State Zip
PO#:
Telephone #: 207 775 5401
Fax #:
Email Address:

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	8260 VOA 624 524.2	8021 MTBE/BTEX VPH w/targets	8015 GRO	8100 DRO EPH	EPH w/PAHs EPH 4 Diesel	8081 Pesticides 8082 PCB 608 Pesticides 608 PCB	8270 SVOA 625 PAH 8270	RCRA8 RCRA8 PP13 TAL23	TCLP-RCRA8 NBC7	MCP-METALS (13) MCP-METALS (13) w/Hg	VOA L.L	VOA MeOH	PAH/Pest/PCBs PPM	DIOXIN/FURANS	PAH/PEST/PCB
14	6-6-06	1345		X	S	SS-SI 209		3	G														1	2
15	6-6-06	1019		X	S	SS-SI 207		3	G														1	2
16	6-6-06	1101		X	S	SS-SI 001		3	G														1	2
17 748	6-6-06	1623		X	S	SS-SI007		6	G											2	1	2	1	
18	6-6-06	1600				TRIP BLANK		1	G												1			

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ___ Yes ___ No Internal Use Only
Seals Intact ___ Yes ___ No NA: [✓] Pickup
Cooler Temp: 2.5° [ ] Technicians ___

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___

Sampled by: ERIC SANDIN

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	6/6/06 1730	[signature]	6/6/06 1730				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

PROJECT NARRATIVE
Page One of Two

Chris Ricardi
MACTEC Engineering & Consulting, Inc.
511 Congress Street
Portland, ME 04101

RE: Providence Gorham Site
ESS Laboratory Work Order Number: 0606113

This signed Certificate of Analysis is our approved release of your analytical results. Beginning with this Project Narrative, the entire report has been paginated. The ESS Laboratory Certifications sheet is the final report page. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department.

Laurel Stoddard
Laboratory Director

Date: July 24, 2006

Sample Receipt
17 Soil samples and 1 Aqueous sample were received on June 07, 2006 for the analyses specified on the enclosed Chain of Custody Record.

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration may be used instead of automated integration because it produces more accurate results.

ESS Laboratory certifies that the test results meet the requirements of NELAC, except where noted within this project narrative.

Metals Analysis
ESS Laboratory utilized the established linear dynamic range to determine acceptable analytical results.
The batch duplicate was outside of the recommended range for Copper due to matrix interferences.
The batch Matrix Spike was outside of the recommended range for Antimony, Barium, Lead, Silver and Zinc. These analytes were below the lower control limit.
The batch Matrix Spike/Matrix Spike Duplicate was outside of the recommended range for Mercury due to matrix interferences. This analyte exceeds the upper control limit.
The Relative Percent Difference for the Blank Spike/Blank Spike Duplicate was outside of the recommended range for Mercury.
Elevated method reporting limits for Beryllium for sample 0606113-07 are due to sample matrix interferences.

Volatile Organics Analysis Low Level
Blank Spike was outside of the recommended range for Chloroethane. This analyte was below the lower control limit.
Internal standard recovery was outside of the recommended ranges for sample 0606113-03 due to matrix interferences.

Continued

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Dependability • Quality • Service

PROJECT NARRATIVE
Page Two of Two

Chris Ricardi
MACTEC Engineering & Consulting, Inc.
511 Congress Street
Portland, ME 04101

RE: Providence Gorham Site
ESS Laboratory Work Order Number: 0606113

Pesticides Analysis
Blank Spike was outside of the recommended range for Hexachlorobenzene. This analyte was below the lower control limit.
The Relative Percent Difference for the Blank Spike/Blank Spike Duplicate was outside of the recommended range for Hexachlorobenzene.

Polychlorinated Biphenyls Analysis
Surrogate recoveries were outside of the recommended ranges for sample 0606113-18 due to matrix interferences.

Polynuclear Aromatic Hydrocarbon Analysis
Internal standard recovery was outside of the recommended ranges for samples 0606113-01, 0606113-05, 0606113-07 and 0606113-12 due to matrix interferences.
Surrogate recovery was outside of the recommended range for sample 0606113-05 due to matrix interferences.
SIMS
The Relative Percent Difference for the Blank Spike/Blank Spike Duplicate was outside of the recommended range for Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo(g,h,i)perylene, Dibenzo(a,h)Anthracene and Indeno(1,2,3-cd)Pyrene.
Surrogate recovery was outside of the recommended range for the Method Blank.
Surrogate recovery was outside of the recommended range for sample 0606113-13 due to matrix interferences.
Internal standard recovery was outside of the recommended ranges for samples 0606113-04RE and 0606113-06 due to matrix interferences.

No other observations noted.

End of Project Narrative.

mdp

Metals
Data Package

Metals
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI024
Date Sampled: 06/07/06 10:18
Percent Solids: 77

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-01
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	7.4	6010B	1	JP	06/09/06	1.76	100
Arsenic	**4.5**	mg/kg dry	1.8	7060A	5	JP	06/12/06	1.76	100
Barium	**75.8**	mg/kg dry	3.7	6010B	1	JP	06/09/06	1.76	100
Beryllium	**0.21**	mg/kg dry	0.07	6010B	1	JP	06/09/06	1.76	100
Cadmium	ND	mg/kg dry	0.74	6010B	1	JP	06/09/06	1.76	100
Chromium	**11.4**	mg/kg dry	1.5	6010B	1	JP	06/09/06	1.76	100
Copper	**153**	mg/kg dry	1.5	6010B	1	JP	06/09/06	1.76	100
Lead	**231**	mg/kg dry	7.4	6010B	1	JP	06/09/06	1.76	100
Mercury	**0.228**	mg/kg dry	0.039	7471A	1	JP	06/10/06	0.66	40
Nickel	**13.8**	mg/kg dry	3.7	6010B	1	JP	06/09/06	1.76	100
Selenium	ND	mg/kg dry	7.4	6010B	1	JP	06/09/06	1.76	100
Silver	**28.7**	mg/kg dry	0.74	6010B	1	JP	06/09/06	1.76	100
Thallium	ND	mg/kg dry	1.8	7841	5	JP	06/10/06	1.76	100
Zinc	**125**	mg/kg dry	3.7	6010B	1	JP	06/09/06	1.76	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI002
Date Sampled: 06/07/06 11:01
Percent Solids: 42

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-03
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	12.3	6010B	1	JP	06/09/06	1.93	100
Arsenic	ND	mg/kg dry	3.1	7060A	5	JP	06/12/06	1.93	100
Barium	**38.8**	mg/kg dry	6.2	6010B	1	JP	06/09/06	1.93	100
Beryllium	ND	mg/kg dry	0.12	6010B	1	JP	06/09/06	1.93	100
Cadmium	ND	mg/kg dry	1.23	6010B	1	JP	06/09/06	1.93	100
Chromium	**10.6**	mg/kg dry	2.5	6010B	1	JP	06/09/06	1.93	100
Copper	**127**	mg/kg dry	2.5	6010B	1	JP	06/09/06	1.93	100
Lead	**138**	mg/kg dry	12.3	6010B	1	JP	06/09/06	1.93	100
Mercury	**0.143**	mg/kg dry	0.079	7471A	1	JP	06/10/06	0.6	40
Nickel	**13.9**	mg/kg dry	6.2	6010B	1	JP	06/09/06	1.93	100
Selenium	ND	mg/kg dry	12.3	6010B	1	JP	06/09/06	1.93	100
Silver	**10.7**	mg/kg dry	1.23	6010B	1	JP	06/09/06	1.93	100
Thallium	ND	mg/kg dry	3.1	7841	5	JP	06/10/06	1.93	100
Zinc	**120**	mg/kg dry	6.2	6010B	1	JP	06/09/06	1.93	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI023
Date Sampled: 06/07/06 12:27
Percent Solids: 78

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-04
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte		Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony		ND	mg/kg dry	7.3	6010B	1	JP	06/09/06	1.75	100
Arsenic	E	**33.9**	mg/kg dry	1.8	7060A	5	JP	06/12/06	1.75	100
Barium		**31.3**	mg/kg dry	3.7	6010B	1	JP	06/09/06	1.75	100
Beryllium		**0.13**	mg/kg dry	0.07	6010B	1	JP	06/09/06	1.75	100
Cadmium		**1.15**	mg/kg dry	0.73	6010B	1	JP	06/09/06	1.75	100
Chromium		**21.0**	mg/kg dry	1.5	6010B	1	JP	06/09/06	1.75	100
Copper		**36.0**	mg/kg dry	1.5	6010B	1	JP	06/09/06	1.75	100
Lead		**113**	mg/kg dry	7.3	6010B	1	JP	06/09/06	1.75	100
Mercury		**0.284**	mg/kg dry	0.037	7471A	1	JP	06/10/06	0.69	40
Nickel		**6.7**	mg/kg dry	3.7	6010B	1	JP	06/09/06	1.75	100
Selenium		ND	mg/kg dry	7.3	6010B	1	JP	06/09/06	1.75	100
Silver		**7.94**	mg/kg dry	0.73	6010B	1	JP	06/09/06	1.75	100
Thallium		ND	mg/kg dry	1.8	7841	5	JP	06/10/06	1.75	100
Zinc		**32.6**	mg/kg dry	3.7	6010B	1	JP	06/09/06	1.75	100

REVISED

JUL 24 2006

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI023
Date Sampled: 06/07/06 12:27
Percent Solids: 78

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-04RE1
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Arsenic	37.3	mg/kg dry	5.5	7060A	15	JP	06/12/06	1.75	100

REVISED

JUL 24 2006

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI021
Date Sampled: 06/08/06 16:05
Percent Solids: 79

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-05
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	7.1	6010B	1	JP	06/09/06	1.79	100
Arsenic	ND	mg/kg dry	1.8	7060A	5	JP	06/12/06	1.79	100
Barium	**15.6**	mg/kg dry	3.5	6010B	1	JP	06/09/06	1.79	100
Beryllium	**0.14**	mg/kg dry	0.07	6010B	1	JP	06/09/06	1.79	100
Cadmium	ND	mg/kg dry	0.71	6010B	1	JP	06/09/06	1.79	100
Chromium	**5.0**	mg/kg dry	1.4	6010B	1	JP	06/09/06	1.79	100
Copper	**15.7**	mg/kg dry	1.4	6010B	1	JP	06/09/06	1.79	100
Lead	**43.0**	mg/kg dry	7.1	6010B	1	JP	06/09/06	1.79	100
Mercury	**0.070**	mg/kg dry	0.042	7471A	1	JP	06/10/06	0.6	40
Nickel	**5.0**	mg/kg dry	3.5	6010B	1	JP	06/09/06	1.79	100
Selenium	ND	mg/kg dry	7.1	6010B	1	JP	06/09/06	1.79	100
Silver	**2.81**	mg/kg dry	0.71	6010B	1	JP	06/09/06	1.79	100
Thallium	ND	mg/kg dry	1.8	7841	5	JP	06/10/06	1.79	100
Zinc	**49.1**	mg/kg dry	3.5	6010B	1	JP	06/09/06	1.79	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI012
Date Sampled: 06/08/06 12:29
Percent Solids: 92

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-06
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.1	6010B	1	JP	06/09/06	1.79	100
Arsenic	**1.9**	mg/kg dry	1.5	7060A	5	JP	06/12/06	1.79	100
Barium	**12.7**	mg/kg dry	3.0	6010B	1	JP	06/09/06	1.79	100
Beryllium	ND	mg/kg dry	0.06	6010B	1	JP	06/09/06	1.79	100
Cadmium	ND	mg/kg dry	0.61	6010B	1	JP	06/09/06	1.79	100
Chromium	**7.4**	mg/kg dry	1.2	6010B	1	JP	06/09/06	1.79	100
Copper	**8.4**	mg/kg dry	1.2	6010B	1	JP	06/09/06	1.79	100
Lead	**15.4**	mg/kg dry	6.1	6010B	1	JP	06/09/06	1.79	100
Mercury	**0.055**	mg/kg dry	0.034	7471A	1	JP	06/10/06	0.64	40
Nickel	**3.3**	mg/kg dry	3.0	6010B	1	JP	06/09/06	1.79	100
Selenium	ND	mg/kg dry	6.1	6010B	1	JP	06/09/06	1.79	100
Silver	**0.81**	mg/kg dry	0.61	6010B	1	JP	06/09/06	1.79	100
Thallium	ND	mg/kg dry	1.5	7841	5	JP	06/12/06	1.79	100
Zinc	**16.2**	mg/kg dry	3.0	6010B	1	JP	06/09/06	1.79	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI013
Date Sampled: 06/08/06 14:01
Percent Solids: 93

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-07
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.1	6010B	1	JP	06/09/06	1.75	100
Arsenic	ND	mg/kg dry	1.5	7060A	5	JP	06/12/06	1.75	100
Barium	**54.9**	mg/kg dry	3.1	6010B	1	JP	06/09/06	1.75	100
Beryllium	ND	mg/kg dry	0.31	6010B	5	JP	06/12/06	1.75	100
Cadmium	ND	mg/kg dry	0.61	6010B	1	JP	06/09/06	1.75	100
Chromium	**10.8**	mg/kg dry	1.2	6010B	1	JP	06/09/06	1.75	100
Copper	**26.3**	mg/kg dry	1.2	6010B	1	JP	06/09/06	1.75	100
Lead	**8.5**	mg/kg dry	6.1	6010B	1	JP	06/09/06	1.75	100
Mercury	ND	mg/kg dry	0.034	7471A	1	JP	06/10/06	0.63	40
Nickel	**11.1**	mg/kg dry	3.1	6010B	1	JP	06/09/06	1.75	100
Selenium	ND	mg/kg dry	6.1	6010B	1	JP	06/09/06	1.75	100
Silver	ND	mg/kg dry	0.61	6010B	1	JP	06/09/06	1.75	100
Thallium	ND	mg/kg dry	1.5	7841	5	JP	06/12/06	1.75	100
Zinc	**29.4**	mg/kg dry	3.1	6010B	1	JP	06/09/06	1.75	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI014
Date Sampled: 06/08/06 14:16
Percent Solids: 94

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-08
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.0	6010B	1	JP	06/09/06	1.78	100
Arsenic	**1.5**	mg/kg dry	1.5	7060A	5	JP	06/12/06	1.78	100
Barium	**36.1**	mg/kg dry	3.0	6010B	1	JP	06/09/06	1.78	100
Beryllium	ND	mg/kg dry	0.06	6010B	1	JP	06/09/06	1.78	100
Cadmium	ND	mg/kg dry	0.60	6010B	1	JP	06/09/06	1.78	100
Chromium	**9.8**	mg/kg dry	1.2	6010B	1	JP	06/09/06	1.78	100
Copper	**22.8**	mg/kg dry	1.2	6010B	1	JP	06/09/06	1.78	100
Lead	**9.3**	mg/kg dry	6.0	6010B	1	JP	06/09/06	1.78	100
Mercury	ND	mg/kg dry	0.032	7471A	1	JP	06/10/06	0.66	40
Nickel	**9.3**	mg/kg dry	3.0	6010B	1	JP	06/09/06	1.78	100
Selenium	ND	mg/kg dry	6.0	6010B	1	JP	06/09/06	1.78	100
Silver	ND	mg/kg dry	0.60	6010B	1	JP	06/09/06	1.78	100
Thallium	ND	mg/kg dry	1.5	7841	5	JP	06/12/06	1.78	100
Zinc	**27.3**	mg/kg dry	3.0	6010B	1	JP	06/09/06	1.78	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI015
Date Sampled: 06/08/06 14:31
Percent Solids: 89

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-09
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.1	6010B	1	JP	06/09/06	1.83	100
Arsenic	**3.0**	mg/kg dry	1.5	7060A	5	JP	06/12/06	1.83	100
Barium	**41.4**	mg/kg dry	3.1	6010B	1	JP	06/09/06	1.83	100
Beryllium	**0.17**	mg/kg dry	0.06	6010B	1	JP	06/09/06	1.83	100
Cadmium	ND	mg/kg dry	0.61	6010B	1	JP	06/09/06	1.83	100
Chromium	**11.3**	mg/kg dry	1.2	6010B	1	JP	06/09/06	1.83	100
Copper	**37.9**	mg/kg dry	1.2	6010B	1	JP	06/09/06	1.83	100
Lead	**54.4**	mg/kg dry	6.1	6010B	1	JP	06/09/06	1.83	100
Mercury	**0.571**	mg/kg dry	0.036	7471A	1	JP	06/10/06	0.62	40
Nickel	**10.0**	mg/kg dry	3.1	6010B	1	JP	06/09/06	1.83	100
Selenium	ND	mg/kg dry	6.1	6010B	1	JP	06/09/06	1.83	100
Silver	**12.0**	mg/kg dry	0.61	6010B	1	JP	06/09/06	1.83	100
Thallium	ND	mg/kg dry	1.5	7841	5	JP	06/12/06	1.83	100
Zinc	**67.3**	mg/kg dry	3.1	6010B	1	JP	06/09/06	1.83	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI016
Date Sampled: 06/08/06 14:51
Percent Solids: 92

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-10
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.1	6010B	1	JP	06/09/06	1.77	100
Arsenic	ND	mg/kg dry	1.5	7060A	5	JP	06/12/06	1.77	100
Barium	**27.3**	mg/kg dry	3.1	6010B	1	JP	06/09/06	1.77	100
Beryllium	ND	mg/kg dry	0.06	6010B	1	JP	06/09/06	1.77	100
Cadmium	ND	mg/kg dry	0.61	6010B	1	JP	06/09/06	1.77	100
Chromium	**9.3**	mg/kg dry	1.2	6010B	1	JP	06/09/06	1.77	100
Copper	**26.3**	mg/kg dry	1.2	6010B	1	JP	06/09/06	1.77	100
Lead	**10.2**	mg/kg dry	6.1	6010B	1	JP	06/09/06	1.77	100
Mercury	ND	mg/kg dry	0.035	7471A	1	JP	06/10/06	0.62	40
Nickel	**9.1**	mg/kg dry	3.1	6010B	1	JP	06/09/06	1.77	100
Selenium	ND	mg/kg dry	6.1	6010B	1	JP	06/09/06	1.77	100
Silver	ND	mg/kg dry	0.61	6010B	1	JP	06/09/06	1.77	100
Thallium	ND	mg/kg dry	1.5	7841	5	JP	06/12/06	1.77	100
Zinc	**24.2**	mg/kg dry	3.1	6010B	1	JP	06/09/06	1.77	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI017
Date Sampled: 06/08/06 15:05
Percent Solids: 90

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-11
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte		Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Aluminum		**5330**	mg/kg dry	6.0	6010B	1	JP	06/09/06	1.86	100
Antimony		ND	mg/kg dry	6.0	6010B	1	JP	06/09/06	1.86	100
Arsenic		**3.5**	mg/kg dry	1.5	7060A	5	JP	06/12/06	1.86	100
Barium		**44.1**	mg/kg dry	3.0	6010B	1	JP	06/09/06	1.86	100
Beryllium		**0.13**	mg/kg dry	0.06	6010B	1	JP	06/09/06	1.86	100
Cadmium		ND	mg/kg dry	0.60	6010B	1	JP	06/09/06	1.86	100
Calcium		**5950**	mg/kg dry	23.9	6010B	1	JP	06/09/06	1.86	100
Chromium		**12.1**	mg/kg dry	1.2	6010B	1	JP	06/09/06	1.86	100
Copper		**60.4**	mg/kg dry	1.2	6010B	1	JP	06/09/06	1.86	100
Iron		**8570**	mg/kg dry	6.0	6010B	1	JP	06/09/06	1.86	100
Lead		**99.4**	mg/kg dry	6.0	6010B	1	JP	06/09/06	1.86	100
Magnesium		**1910**	mg/kg dry	11.9	6010B	1	JP	06/09/06	1.86	100
Mercury	E	**0.836**	mg/kg dry	0.034	7471A	1	JP	06/10/06	0.66	40
Nickel		**11.0**	mg/kg dry	3.0	6010B	1	JP	06/09/06	1.86	100
Selenium		ND	mg/kg dry	6.0	6010B	1	JP	06/09/06	1.86	100
Silver		**13.4**	mg/kg dry	0.60	6010B	1	JP	06/09/06	1.86	100
Thallium		ND	mg/kg dry	1.5	7841	5	JP	06/12/06	1.86	100
Zinc		**97.1**	mg/kg dry	3.0	6010B	1	JP	06/09/06	1.86	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI017
Date Sampled: 06/08/06 15:05
Percent Solids: 90

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-11RE1
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Mercury	**0.789**	mg/kg dry	0.336	7471A	10	JP	06/10/06	0.66	40

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI018
Date Sampled: 06/08/06 15:18
Percent Solids: 93

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-12
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.0	6010B	1	JP	06/09/06	1.78	100
Arsenic	ND	mg/kg dry	1.5	7060A	5	JP	06/12/06	1.78	100
Barium	**29.4**	mg/kg dry	3.0	6010B	1	JP	06/09/06	1.78	100
Beryllium	ND	mg/kg dry	0.06	6010B	1	JP	06/09/06	1.78	100
Cadmium	ND	mg/kg dry	0.60	6010B	1	JP	06/09/06	1.78	100
Chromium	**11.8**	mg/kg dry	1.2	6010B	1	JP	06/09/06	1.78	100
Copper	**28.1**	mg/kg dry	1.2	6010B	1	JP	06/09/06	1.78	100
Lead	**6.8**	mg/kg dry	6.0	6010B	1	JP	06/09/06	1.78	100
Mercury	ND	mg/kg dry	0.034	7471A	1	JP	06/10/06	0.64	40
Nickel	**10.4**	mg/kg dry	3.0	6010B	1	JP	06/09/06	1.78	100
Selenium	ND	mg/kg dry	6.0	6010B	1	JP	06/09/06	1.78	100
Silver	ND	mg/kg dry	0.60	6010B	1	JP	06/09/06	1.78	100
Thallium	ND	mg/kg dry	1.5	7841	5	JP	06/12/06	1.78	100
Zinc	**26.2**	mg/kg dry	3.0	6010B	1	JP	06/09/06	1.78	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI019
Date Sampled: 06/08/06 15:25
Percent Solids: 93

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-13
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.1	6010B	1	JP	06/09/06	1.75	100
Arsenic	ND	mg/kg dry	1.5	7060A	5	JP	06/12/06	1.75	100
Barium	**22.8**	mg/kg dry	3.1	6010B	1	JP	06/09/06	1.75	100
Beryllium	ND	mg/kg dry	0.06	6010B	1	JP	06/09/06	1.75	100
Cadmium	ND	mg/kg dry	0.61	6010B	1	JP	06/09/06	1.75	100
Chromium	**11.4**	mg/kg dry	1.2	6010B	1	JP	06/09/06	1.75	100
Copper	**23.7**	mg/kg dry	1.2	6010B	1	JP	06/09/06	1.75	100
Lead	ND	mg/kg dry	6.1	6010B	1	JP	06/09/06	1.75	100
Mercury	ND	mg/kg dry	0.032	7471A	1	JP	06/10/06	0.68	40
Nickel	**9.3**	mg/kg dry	3.1	6010B	1	JP	06/09/06	1.75	100
Selenium	ND	mg/kg dry	6.1	6010B	1	JP	06/09/06	1.75	100
Silver	ND	mg/kg dry	0.61	6010B	1	JP	06/09/06	1.75	100
Thallium	ND	mg/kg dry	1.5	7841	5	JP	06/12/06	1.75	100
Zinc	**23.6**	mg/kg dry	3.1	6010B	1	JP	06/09/06	1.75	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI020
Date Sampled: 06/08/06 15:43
Percent Solids: 88

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-14
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.3	6010B	1	JP	06/09/06	1.81	100
Arsenic	**3.0**	mg/kg dry	1.6	7060A	5	JP	06/12/06	1.81	100
Barium	**47.4**	mg/kg dry	3.1	6010B	1	JP	06/09/06	1.81	100
Beryllium	**0.15**	mg/kg dry	0.06	6010B	1	JP	06/09/06	1.81	100
Cadmium	ND	mg/kg dry	0.63	6010B	1	JP	06/09/06	1.81	100
Chromium	**13.9**	mg/kg dry	1.3	6010B	1	JP	06/09/06	1.81	100
Copper	**50.3**	mg/kg dry	1.3	6010B	1	JP	06/09/06	1.81	100
Lead	**67.7**	mg/kg dry	6.3	6010B	1	JP	06/09/06	1.81	100
Mercury	**0.539**	mg/kg dry	0.035	7471A	1	JP	06/10/06	0.64	40
Nickel	**11.5**	mg/kg dry	3.1	6010B	1	JP	06/09/06	1.81	100
Selenium	ND	mg/kg dry	6.3	6010B	1	JP	06/09/06	1.81	100
Silver	**10.8**	mg/kg dry	0.63	6010B	1	JP	06/09/06	1.81	100
Thallium	ND	mg/kg dry	1.6	7841	5	JP	06/12/06	1.81	100
Zinc	**82.3**	mg/kg dry	3.1	6010B	1	JP	06/09/06	1.81	100

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI022
Date Sampled: 06/08/06 09:13
Percent Solids: 91

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-16
Sample Matrix: Soil

3050B/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/kg dry	6.2	6010B	1	JP	06/09/06	1.76	100
Arsenic	ND	mg/kg dry	1.6	7060A	5	JP	06/12/06	1.76	100
Barium	**28.4**	mg/kg dry	3.1	6010B	1	JP	06/09/06	1.76	100
Beryllium	ND	mg/kg dry	0.06	6010B	1	JP	06/09/06	1.76	100
Cadmium	ND	mg/kg dry	0.62	6010B	1	JP	06/09/06	1.76	100
Chromium	**13.5**	mg/kg dry	1.2	6010B	1	JP	06/09/06	1.76	100
Copper	**27.5**	mg/kg dry	1.2	6010B	1	JP	06/09/06	1.76	100
Lead	**14.5**	mg/kg dry	6.2	6010B	1	JP	06/09/06	1.76	100
Mercury	**0.098**	mg/kg dry	0.035	7471A	1	JP	06/10/06	0.62	40
Nickel	**10.4**	mg/kg dry	3.1	6010B	1	JP	06/09/06	1.76	100
Selenium	ND	mg/kg dry	6.2	6010B	1	JP	06/09/06	1.76	100
Silver	**1.98**	mg/kg dry	0.62	6010B	1	JP	06/09/06	1.76	100
Thallium	ND	mg/kg dry	1.6	7841	5	JP	06/12/06	1.76	100
Zinc	**31.8**	mg/kg dry	3.1	6010B	1	JP	06/09/06	1.76	100

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: RB-1
Date Sampled: 06/08/06 10:41
Percent Solids: N/A

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-18
Sample Matrix: Aqueous

3005A/6000/7000 Total Metals

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Antimony	ND	mg/L	0.05	6010B	1	JP	06/09/06	50	50
Arsenic	ND	mg/L	0.050	6010B	1	JP	06/09/06	50	50
Barium	ND	mg/L	0.050	6010B	1	JP	06/09/06	50	50
Beryllium	ND	mg/L	0.001	6010B	1	JP	06/09/06	50	50
Cadmium	ND	mg/L	0.005	6010B	1	JP	06/09/06	50	50
Chromium	ND	mg/L	0.020	6010B	1	JP	06/09/06	50	50
Copper	ND	mg/L	0.020	6010B	1	JP	06/09/06	50	50
Lead	ND	mg/L	0.050	6010B	1	JP	06/09/06	50	50
Mercury	ND	mg/L	0.0005	7470A	1	JP	06/10/06	20	40
Nickel	ND	mg/L	0.050	6010B	1	JP	06/09/06	50	50
Selenium	ND	mg/L	0.05	6010B	1	JP	06/09/06	50	50
Silver	ND	mg/L	0.005	6010B	1	JP	06/09/06	50	50
Thallium	ND	mg/L	0.10	6010B	1	JP	06/09/06	50	50
Zinc	**0.062**	mg/L	0.050	6010B	1	JP	06/09/06	50	50

Metals
Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3005A/6000/7000 Total Metals										
Batch BF60904 - 3005A										
Blank										
Antimony	ND	0.05	mg/L							
Arsenic	ND	0.050	mg/L							
Barium	ND	0.050	mg/L							
Beryllium	ND	0.001	mg/L							
Cadmium	ND	0.005	mg/L							
Chromium	ND	0.020	mg/L							
Copper	ND	0.020	mg/L							
Lead	ND	0.050	mg/L							
Nickel	ND	0.050	mg/L							
Selenium	ND	0.05	mg/L							
Silver	ND	0.005	mg/L							
Thallium	ND	0.10	mg/L							
Zinc	ND	0.050	mg/L							
LCS										
Antimony	0.50	0.05	mg/L	0.500		100	80-120			
Arsenic	0.485	0.050	mg/L	0.500		97	80-120			
Barium	0.504	0.050	mg/L	0.500		101	80-120			
Beryllium	0.052	0.001	mg/L	0.0500		104	80-120			
Cadmium	0.259	0.005	mg/L	0.250		104	80-120			
Chromium	0.510	0.020	mg/L	0.500		102	80-120			
Copper	0.522	0.020	mg/L	0.500		104	80-120			
Lead	0.507	0.050	mg/L	0.500		101	80-120			
Nickel	0.513	0.050	mg/L	0.500		103	80-120			
Selenium	1.01	0.05	mg/L	1.00		101	80-120			
Silver	0.262	0.005	mg/L	0.250		105	80-120			
Thallium	0.51	0.10	mg/L	0.500		102	80-120			
Zinc	0.516	0.050	mg/L	0.500		103	80-120			
LCS Dup										
Antimony	0.49	0.05	mg/L	0.500		98	80-120	2	20	
Arsenic	0.486	0.050	mg/L	0.500		97	80-120	0.2	20	
Barium	0.500	0.050	mg/L	0.500		100	80-120	1	20	
Beryllium	0.051	0.001	mg/L	0.0500		102	80-120	2	20	
Cadmium	0.258	0.005	mg/L	0.250		103	80-120	1	20	
Chromium	0.505	0.020	mg/L	0.500		101	80-120	1	20	
Copper	0.516	0.020	mg/L	0.500		103	80-120	1	20	
Lead	0.504	0.050	mg/L	0.500		101	80-120	0.6	20	
Nickel	0.502	0.050	mg/L	0.500		100	80-120	3	20	
Selenium	1.00	0.05	mg/L	1.00		100	80-120	1	20	
Silver	0.259	0.005	mg/L	0.250		104	80-120	1	20	
Thallium	0.51	0.10	mg/L	0.500		102	80-120	0	20	
Zinc	0.508	0.050	mg/L	0.500		102	80-120	1	20	
Batch BF61005 - 245.1/7470A										
Blank										
Mercury	ND	0.0005	mg/L							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3005A/6000/7000 Total Metals										
Batch BF61005 - 245.1/7470A										
LCS										
Mercury	0.0057	0.0005	mg/L	0.00600		95	80-120			
LCS Dup										
Mercury	0.0056	0.0005	mg/L	0.00600		93	80-120	2	20	
3050B/6000/7000 Total Metals										
Batch BF60914 - 3050B										
Blank										
Antimony	ND	6.7	mg/kg wet							
Arsenic	ND	0.3	mg/kg wet							
Barium	ND	3.3	mg/kg wet							
Beryllium	ND	0.07	mg/kg wet							
Cadmium	ND	0.67	mg/kg wet							
Chromium	ND	1.3	mg/kg wet							
Copper	ND	1.3	mg/kg wet							
Lead	ND	6.7	mg/kg wet							
Nickel	ND	3.3	mg/kg wet							
Selenium	ND	6.7	mg/kg wet							
Silver	ND	0.67	mg/kg wet							
Thallium	ND	0.3	mg/kg wet							
Zinc	ND	3.3	mg/kg wet							
LCS										
Antimony	30.4	6.7	mg/kg wet	33.3		91	80-120			
Arsenic	30.4	6.7	mg/kg wet	33.3		91	80-120			
Barium	31.6	3.3	mg/kg wet	33.3		95	80-120			
Beryllium	3.13	0.07	mg/kg wet	3.33		94	80-120			
Cadmium	15.5	0.67	mg/kg wet	16.7		93	80-120			
Chromium	31.9	1.3	mg/kg wet	33.3		96	80-120			
Copper	32.7	1.3	mg/kg wet	33.3		98	80-120			
Lead	31.2	6.7	mg/kg wet	33.3		94	80-120			
Nickel	30.9	3.3	mg/kg wet	33.3		93	80-120			
Selenium	57.1	6.7	mg/kg wet	66.7		86	80-120			
Silver	15.9	0.67	mg/kg wet	16.7		95	80-120			
Thallium	32.5	6.7	mg/kg wet	33.3		98	80-120			
Zinc	30.7	3.3	mg/kg wet	33.3		92	80-120			
LCS Dup										
Antimony	30.4	6.7	mg/kg wet	33.3		91	80-120	0	20	
Barium	31.9	3.3	mg/kg wet	33.3		96	80-120	1	20	
Beryllium	3.15	0.07	mg/kg wet	3.33		95	80-120	1	20	
Cadmium	15.7	0.67	mg/kg wet	16.7		94	80-120	1	20	
Chromium	32.3	1.3	mg/kg wet	33.3		97	80-120	1	20	
Copper	33.2	1.3	mg/kg wet	33.3		100	80-120	2	20	
Lead	31.4	6.7	mg/kg wet	33.3		94	80-120	0.6	20	
Nickel	31.3	3.3	mg/kg wet	33.3		94	80-120	1	20	
Selenium	57.2	6.7	mg/kg wet	66.7		86	80-120	0	20	
Silver	16.1	0.67	mg/kg wet	16.7		96	80-120	1	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BF60914 - 3050B										
Thallium	34.4	6.7	mg/kg wet	33.3		103	80-120	5	20	
Zinc	30.8	3.3	mg/kg wet	33.3		92	80-120	0	20	
Duplicate **Source: 0606113-11**										
Antimony	ND	6.1	mg/kg dry		ND				35	
Arsenic	3.4	1.5	mg/kg dry		3.5			3	35	
Barium	44.5	3.0	mg/kg dry		44.1			0.9	35	
Beryllium	0.132	0.06	mg/kg dry		0.13			2	35	
Cadmium	0.354	0.61	mg/kg dry		0.38			7	35	
Chromium	12.0	1.2	mg/kg dry		12.1			0.8	35	
Copper	102	1.2	mg/kg dry		60.4			51	35	+
Lead	86.9	6.1	mg/kg dry		99.4			13	35	
Nickel	11.3	3.0	mg/kg dry		11.0			3	35	
Selenium	ND	6.1	mg/kg dry		ND				35	
Silver	17.2	0.61	mg/kg dry		13.4			25	35	
Thallium	ND	1.5	mg/kg dry		ND				35	
Zinc	96.8	3.0	mg/kg dry		97.1			0.3	35	
Matrix Spike **Source: 0606113-11**										
Antimony	14.1	6.1	mg/kg dry	30.5	ND	46	75-125			+
Arsenic	31.2	6.1	mg/kg dry	30.5	3.5	91	75-125			
Barium	63.9	3.0	mg/kg dry	30.5	44.1	65	75-125			+
Beryllium	2.59	0.06	mg/kg dry	3.05	0.13	81	75-125			
Cadmium	12.6	0.61	mg/kg dry	15.3	0.38	80	75-125			
Chromium	36.2	1.2	mg/kg dry	30.5	12.1	79	75-125			
Copper	97.9	1.2	mg/kg dry	30.5	60.4	123	75-125			
Lead	100	6.1	mg/kg dry	30.5	99.4	2	75-125			+
Nickel	34.3	3.0	mg/kg dry	30.5	11.0	76	75-125			
Selenium	45.6	6.1	mg/kg dry	61.1	ND	75	75-125			
Silver	24.3	0.61	mg/kg dry	15.3	13.4	71	75-125			+
Thallium	28.6	6.1	mg/kg dry	30.5	ND	94	75-125			
Zinc	112	3.0	mg/kg dry	30.5	97.1	49	75-125			+
Reference										
Antimony	73.9	10.0	mg/kg wet	86.2		86	0-222.74			
Arsenic	142	25.0	mg/kg wet	146		97	79.45-120.55			
Barium	323	5.0	mg/kg wet	351		92	82.05-117.95			
Beryllium	59.0	0.10	mg/kg wet	62.2		95	81.99-118.01			
Cadmium	83.0	1.00	mg/kg wet	91.9		90	81.5-118.61			
Chromium	163	2.0	mg/kg wet	176		93	78.41-121.59			
Copper	66.9	2.0	mg/kg wet	70.0		96	82.14-118			
Lead	61.5	10.0	mg/kg wet	68.1		90	80.62-119.38			
Nickel	75.8	5.0	mg/kg wet	84.0		90	81.55-118.45			
Selenium	64.5	10.0	mg/kg wet	73.0		88	75.48-124.38			
Silver	89.7	1.00	mg/kg wet	93.0		96	61.29-138.71			
Thallium	87.0	25.0	mg/kg wet	77.8		112	75.58-124.42			
Zinc	362	5.0	mg/kg wet	402		90	79.35-120.65			
Batch BF60915 - 7471A										

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BF60915 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	0.202	0.033	mg/kg wet	0.200		101	80-120			
LCS Dup										
Mercury	0.203	0.033	mg/kg wet	0.200		102	80-120	1	20	
Duplicate **Source: 0606113-11**										
Mercury	1.10	0.370	mg/kg dry		0.789			33	35	
Matrix Spike **Source: 0606113-11**										
Mercury	0.989	0.342	mg/kg dry	0.205	0.789	98	75-125			
Matrix Spike Dup **Source: 0606113-11**										
Mercury	1.31	0.358	mg/kg dry	0.215	0.789	242	75-125	85	35	+
Reference										
Mercury	1.94	0.322	mg/kg wet	1.77		110	68.36-132.2			
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60811 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethene	ND	5.0	ug/Kg wet							
1,1-Dichloropropene	ND	5.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	5.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg wet							
1,2-Dibromoethane	ND	5.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,2-Dichloroethane	ND	5.0	ug/Kg wet							
1,2-Dichloropropane	ND	5.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,3-Dichloropropane	ND	5.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	250	ug/Kg wet							
1-Chlorohexane	ND	5.0	ug/Kg wet							
2,2-Dichloropropane	ND	5.0	ug/Kg wet							
2-Butanone	ND	50.0	ug/Kg wet							
2-Chlorotoluene	ND	5.0	ug/Kg wet							
2-Hexanone	ND	50.0	ug/Kg wet							
4-Chlorotoluene	ND	5.0	ug/Kg wet							

Metals
Calibration Data

ANALYSIS SEQUENCE

BPG0186

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0186-CAL1	QC		1		6F05068		
BPG0186-CAL2	QC		2		6F09001		
BPG0186-CAL3	QC		3		6F09002		
BPG0186-CAL4	QC		4		6F09003		
BPG0186-ICV1	QC		5		6F09002		
BPG0186-SCV1	QC		6		6F09006		
BPG0186-ICB1	QC		7				
BPG0186-CRL1	QC		8		6F09007		
BPG0186-CRL2	QC		9		6F09008		
BPG0186-CRL3	QC		10		6F09009		
BPG0186-IFA1	QC		11		6E30072		
BPG0186-CCB1	QC		12				
BPG0186-CCV1	QC		13		6F09002		
BPG0186-IFB1	QC		14		6E30073		
BF60914-BLK1	QC		15				
BF60914-BS1	QC		16				
BF60914-BSD1	QC		17				
BF60914-SRM1	QC		18				
BF60914-DUP1	QC		19				
BF60914-MS1	QC		20				
BF60914-PS1	QC		21				
0606113-01	Se: ppm Selenium 6010	F	22				MACTEC Engineering & Consulting, In
0606113-01	Sb: ppm Antimony 6010	F	22				MACTEC Engineering & Consulting, In
0606113-01	Ba: ppm Barium 6010	F	22				MACTEC Engineering & Consulting, In
0606113-01	Pb: ppm Lead 6010	F	22				MACTEC Engineering & Consulting, In
0606113-01	Ag: ppm Silver 6010	F	22				MACTEC Engineering & Consulting, In
0606113-01	Be: ppm Beryllium 6010	F	22				MACTEC Engineering & Consulting, In
0606113-01	Ni: ppm Nickel 6010	F	22				MACTEC Engineering & Consulting, In
0606113-01	Cd: ppm Cadmium 6010	F	22				MACTEC Engineering & Consulting, In
0606113-01	Zn: ppm Zinc 6010	F	22				MACTEC Engineering & Consulting, In
0606113-01	Cr: ppm Chromium 6010	F	22				MACTEC Engineering & Consulting, In
0606113-01	Cu: ppm Copper 6010	F	22				MACTEC Engineering & Consulting, In
0606113-03	Zn: ppm Zinc 6010	F	23				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0186

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606113-03	Ag: ppm Silver 6010	F	23				MACTEC Engineering & Consulting, In
0606113-03	Se: ppm Selenium 6010	F	23				MACTEC Engineering & Consulting, In
0606113-03	Pb: ppm Lead 6010	F	23				MACTEC Engineering & Consulting, In
0606113-03	Cu: ppm Copper 6010	F	23				MACTEC Engineering & Consulting, In
0606113-03	Cr: ppm Chromium 6010	F	23				MACTEC Engineering & Consulting, In
0606113-03	Cd: ppm Cadmium 6010	F	23				MACTEC Engineering & Consulting, In
0606113-03	Be: ppm Beryllium 6010	F	23				MACTEC Engineering & Consulting, In
0606113-03	Sb: ppm Antimony 6010	F	23				MACTEC Engineering & Consulting, In
0606113-03	Ba: ppm Barium 6010	F	23				MACTEC Engineering & Consulting, In
0606113-03	Ni: ppm Nickel 6010	F	23				MACTEC Engineering & Consulting, In
BPG0186-CCB2	QC		24				
BPG0186-CCV2	QC		25		6F09002		
0606113-04	Ba: ppm Barium 6010	F	26				MACTEC Engineering & Consulting, In
0606113-04	Sb: ppm Antimony 6010	F	26				MACTEC Engineering & Consulting, In
0606113-04	Ag: ppm Silver 6010	F	26				MACTEC Engineering & Consulting, In
0606113-04	Cd: ppm Cadmium 6010	F	26				MACTEC Engineering & Consulting, In
0606113-04	Zn: ppm Zinc 6010	F	26				MACTEC Engineering & Consulting, In
0606113-04	Se: ppm Selenium 6010	F	26				MACTEC Engineering & Consulting, In
0606113-04	Ni: ppm Nickel 6010	F	26				MACTEC Engineering & Consulting, In
0606113-04	Pb: ppm Lead 6010	F	26				MACTEC Engineering & Consulting, In
0606113-04	Cu: ppm Copper 6010	F	26				MACTEC Engineering & Consulting, In
0606113-04	Cr: ppm Chromium 6010	F	26				MACTEC Engineering & Consulting, In
0606113-04	Be: ppm Beryllium 6010	F	26				MACTEC Engineering & Consulting, In
0606113-05	Pb: ppm Lead 6010	F	27				MACTEC Engineering & Consulting, In
0606113-05	Sb: ppm Antimony 6010	F	27				MACTEC Engineering & Consulting, In
0606113-05	Ba: ppm Barium 6010	F	27				MACTEC Engineering & Consulting, In
0606113-05	Cr: ppm Chromium 6010	F	27				MACTEC Engineering & Consulting, In
0606113-05	Cu: ppm Copper 6010	F	27				MACTEC Engineering & Consulting, In
0606113-05	Se: ppm Selenium 6010	F	27				MACTEC Engineering & Consulting, In
0606113-05	Ag: ppm Silver 6010	F	27				MACTEC Engineering & Consulting, In
0606113-05	Zn: ppm Zinc 6010	F	27				MACTEC Engineering & Consulting, In
0606113-05	Ni: ppm Nickel 6010	F	27				MACTEC Engineering & Consulting, In
0606113-05	Be: ppm Beryllium 6010	F	27				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0186

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606113-05	Cd: ppm Cadmium 6010	F	27				MACTEC Engineering & Consulting, In
0606113-06	Cu: ppm Copper 6010	F	28				MACTEC Engineering & Consulting, In
0606113-06	Cr: ppm Chromium 6010	F	28				MACTEC Engineering & Consulting, In
0606113-06	Pb: ppm Lead 6010	F	28				MACTEC Engineering & Consulting, In
0606113-06	Sb: ppm Antimony 6010	F	28				MACTEC Engineering & Consulting, In
0606113-06	Be: ppm Beryllium 6010	F	28				MACTEC Engineering & Consulting, In
0606113-06	Ba: ppm Barium 6010	F	28				MACTEC Engineering & Consulting, In
0606113-06	Zn: ppm Zinc 6010	F	28				MACTEC Engineering & Consulting, In
0606113-06	Ag: ppm Silver 6010	F	28				MACTEC Engineering & Consulting, In
0606113-06	Se: ppm Selenium 6010	F	28				MACTEC Engineering & Consulting, In
0606113-06	Cd: ppm Cadmium 6010	F	28				MACTEC Engineering & Consulting, In
0606113-06	Ni: ppm Nickel 6010	F	28				MACTEC Engineering & Consulting, In
0606113-07	Zn: ppm Zinc 6010	F	29				MACTEC Engineering & Consulting, In
0606113-07	Cu: ppm Copper 6010	F	29				MACTEC Engineering & Consulting, In
0606113-07	Cr: ppm Chromium 6010	F	29				MACTEC Engineering & Consulting, In
0606113-07	Cd: ppm Cadmium 6010	F	29				MACTEC Engineering & Consulting, In
0606113-07	Ni: ppm Nickel 6010	F	29				MACTEC Engineering & Consulting, In
0606113-07	Se: ppm Selenium 6010	F	29				MACTEC Engineering & Consulting, In
0606113-07	Ag: ppm Silver 6010	F	29				MACTEC Engineering & Consulting, In
0606113-07	Be: ppm Beryllium 6010	F	29				MACTEC Engineering & Consulting, In
0606113-07	Sb: ppm Antimony 6010	F	29				MACTEC Engineering & Consulting, In
0606113-07	Ba: ppm Barium 6010	F	29				MACTEC Engineering & Consulting, In
0606113-07	Pb: ppm Lead 6010	F	29				MACTEC Engineering & Consulting, In
0606113-08	Ba: ppm Barium 6010	F	30				MACTEC Engineering & Consulting, In
0606113-08	Cu: ppm Copper 6010	F	30				MACTEC Engineering & Consulting, In
0606113-08	Cd: ppm Cadmium 6010	F	30				MACTEC Engineering & Consulting, In
0606113-08	Pb: ppm Lead 6010	F	30				MACTEC Engineering & Consulting, In
0606113-08	Cr: ppm Chromium 6010	F	30				MACTEC Engineering & Consulting, In
0606113-08	MP: Metals Prep - Soil	F	30				MACTEC Engineering & Consulting, In
0606113-08	Sb: ppm Antimony 6010	F	30				MACTEC Engineering & Consulting, In
0606113-08	Be: ppm Beryllium 6010	F	30				MACTEC Engineering & Consulting, In
0606113-08	Ni: ppm Nickel 6010	F	30				MACTEC Engineering & Consulting, In
0606113-08	Se: ppm Selenium 6010	F	30				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0186

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606113-08	Ag: ppm Silver 6010	F	30				MACTEC Engineering & Consulting, In
0606113-08	Zn: ppm Zinc 6010	F	30				MACTEC Engineering & Consulting, In
0606113-09	Ba: ppm Barium 6010	F	31				MACTEC Engineering & Consulting, In
0606113-09	Cr: ppm Chromium 6010	F	31				MACTEC Engineering & Consulting, In
0606113-09	Ni: ppm Nickel 6010	F	31				MACTEC Engineering & Consulting, In
0606113-09	Cd: ppm Cadmium 6010	F	31				MACTEC Engineering & Consulting, In
0606113-09	Be: ppm Beryllium 6010	F	31				MACTEC Engineering & Consulting, In
0606113-09	Sb: ppm Antimony 6010	F	31				MACTEC Engineering & Consulting, In
0606113-09	Pb: ppm Lead 6010	F	31				MACTEC Engineering & Consulting, In
0606113-09	Cu: ppm Copper 6010	F	31				MACTEC Engineering & Consulting, In
0606113-09	Se: ppm Selenium 6010	F	31				MACTEC Engineering & Consulting, In
0606113-09	Ag: ppm Silver 6010	F	31				MACTEC Engineering & Consulting, In
0606113-09	Zn: ppm Zinc 6010	F	31				MACTEC Engineering & Consulting, In
0606113-10	Ba: ppm Barium 6010	F	32				MACTEC Engineering & Consulting, In
0606113-10	Ag: ppm Silver 6010	F	32				MACTEC Engineering & Consulting, In
0606113-10	Cd: ppm Cadmium 6010	F	32				MACTEC Engineering & Consulting, In
0606113-10	Be: ppm Beryllium 6010	F	32				MACTEC Engineering & Consulting, In
0606113-10	Sb: ppm Antimony 6010	F	32				MACTEC Engineering & Consulting, In
0606113-10	MP: Metals Prep - Soil	F	32				MACTEC Engineering & Consulting, In
0606113-10	Cr: ppm Chromium 6010	F	32				MACTEC Engineering & Consulting, In
0606113-10	Cu: ppm Copper 6010	F	32				MACTEC Engineering & Consulting, In
0606113-10	Pb: ppm Lead 6010	F	32				MACTEC Engineering & Consulting, In
0606113-10	Se: ppm Selenium 6010	F	32				MACTEC Engineering & Consulting, In
0606113-10	Zn: ppm Zinc 6010	F	32				MACTEC Engineering & Consulting, In
0606113-10	Ni: ppm Nickel 6010	F	32				MACTEC Engineering & Consulting, In
0606113-11	Se: ppm Selenium 6010	F	33				MACTEC Engineering & Consulting, In
0606113-11	Fe: ppm Iron 6010	A	33				MACTEC Engineering & Consulting, In
0606113-11	Zn: ppm Zinc 6010	F	33				MACTEC Engineering & Consulting, In
0606113-11	Be: ppm Beryllium 6010	F	33				MACTEC Engineering & Consulting, In
0606113-11	Sb: ppm Antimony 6010	F	33				MACTEC Engineering & Consulting, In
0606113-11	Ag: ppm Silver 6010	F	33				MACTEC Engineering & Consulting, In
0606113-11	Al: ppm Aluminum 6010	A	33				MACTEC Engineering & Consulting, In
0606113-11	Cr: ppm Chromium 6010	F	33				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0186

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606113-11	Ca: ppm Calcium 6010	A	33				MACTEC Engineering & Consulting, In
0606113-11	Mg: ppm Magnesium 6010	A	33				MACTEC Engineering & Consulting, In
0606113-11	Cu: ppm Copper 6010	F	33				MACTEC Engineering & Consulting, In
0606113-11	Pb: ppm Lead 6010	F	33				MACTEC Engineering & Consulting, In
0606113-11	Ni: ppm Nickel 6010	F	33				MACTEC Engineering & Consulting, In
0606113-11	Ba: ppm Barium 6010	F	33				MACTEC Engineering & Consulting, In
0606113-12	Zn: ppm Zinc 6010	F	34				MACTEC Engineering & Consulting, In
0606113-12	Cr: ppm Chromium 6010	F	34				MACTEC Engineering & Consulting, In
0606113-12	Cu: ppm Copper 6010	F	34				MACTEC Engineering & Consulting, In
0606113-12	Ni: ppm Nickel 6010	F	34				MACTEC Engineering & Consulting, In
0606113-12	Se: ppm Selenium 6010	F	34				MACTEC Engineering & Consulting, In
0606113-12	Sb: ppm Antimony 6010	F	34				MACTEC Engineering & Consulting, In
0606113-12	Pb: ppm Lead 6010	F	34				MACTEC Engineering & Consulting, In
0606113-12	Be: ppm Beryllium 6010	F	34				MACTEC Engineering & Consulting, In
0606113-12	Cd: ppm Cadmium 6010	F	34				MACTEC Engineering & Consulting, In
0606113-12	Ba: ppm Barium 6010	F	34				MACTEC Engineering & Consulting, In
0606113-12	Ag: ppm Silver 6010	F	34				MACTEC Engineering & Consulting, In
0606113-13	Sb: ppm Antimony 6010	F	35				MACTEC Engineering & Consulting, In
0606113-13	Be: ppm Beryllium 6010	F	35				MACTEC Engineering & Consulting, In
0606113-13	Cd: ppm Cadmium 6010	F	35				MACTEC Engineering & Consulting, In
0606113-13	Se: ppm Selenium 6010	F	35				MACTEC Engineering & Consulting, In
0606113-13	Zn: ppm Zinc 6010	F	35				MACTEC Engineering & Consulting, In
0606113-13	Ba: ppm Barium 6010	F	35				MACTEC Engineering & Consulting, In
0606113-13	Cr: ppm Chromium 6010	F	35				MACTEC Engineering & Consulting, In
0606113-13	Cu: ppm Copper 6010	F	35				MACTEC Engineering & Consulting, In
0606113-13	Pb: ppm Lead 6010	F	35				MACTEC Engineering & Consulting, In
0606113-13	Ni: ppm Nickel 6010	F	35				MACTEC Engineering & Consulting, In
0606113-13	Ag: ppm Silver 6010	F	35				MACTEC Engineering & Consulting, In
BPG0186-CCB3	QC		36				
BPG0186-CCV3	QC		37		6F09002		
0606113-14	Zn: ppm Zinc 6010	F	38				MACTEC Engineering & Consulting, In
0606113-14	Cr: ppm Chromium 6010	F	38				MACTEC Engineering & Consulting, In
0606113-14	Cu: ppm Copper 6010	F	38				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0186

Instrument: ICP3

Calibration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606113-14	Pb: ppm Lead 6010	F	38				MACTEC Engineering & Consulting, In
0606113-14	Ni: ppm Nickel 6010	F	38				MACTEC Engineering & Consulting, In
0606113-14	Ag: ppm Silver 6010	F	38				MACTEC Engineering & Consulting, In
0606113-14	Se: ppm Selenium 6010	F	38				MACTEC Engineering & Consulting, In
0606113-14	Cd: ppm Cadmium 6010	F	38				MACTEC Engineering & Consulting, In
0606113-14	Be: ppm Beryllium 6010	F	38				MACTEC Engineering & Consulting, In
0606113-14	Ba: ppm Barium 6010	F	38				MACTEC Engineering & Consulting, In
0606113-14	Sb: ppm Antimony 6010	F	38				MACTEC Engineering & Consulting, In
0606113-16	Se: ppm Selenium 6010	F	39				MACTEC Engineering & Consulting, In
0606113-16	Sb: ppm Antimony 6010	F	39				MACTEC Engineering & Consulting, In
0606113-16	Be: ppm Beryllium 6010	F	39				MACTEC Engineering & Consulting, In
0606113-16	Ag: ppm Silver 6010	F	39				MACTEC Engineering & Consulting, In
0606113-16	Zn: ppm Zinc 6010	F	39				MACTEC Engineering & Consulting, In
0606113-16	Ni: ppm Nickel 6010	F	39				MACTEC Engineering & Consulting, In
0606113-16	Cu: ppm Copper 6010	F	39				MACTEC Engineering & Consulting, In
0606113-16	Cr: ppm Chromium 6010	F	39				MACTEC Engineering & Consulting, In
0606113-16	Ba: ppm Barium 6010	F	39				MACTEC Engineering & Consulting, In
0606113-16	Cd: ppm Cadmium 6010	F	39				MACTEC Engineering & Consulting, In
0606113-16	Pb: ppm Lead 6010	F	39				MACTEC Engineering & Consulting, In
BPG0186-SRD1	QC		40				
BPG0186-CCB4	QC		41				
BPG0186-CCV4	QC		42		6F09002		
BPG0186-CCV5	QC		43		6F09002		
BPG0186-CCV6	QC		44		6F09002		
BPG0186-CCV7	QC		45		6F09002		
BPG0186-CCB5	QC		46				
BPG0186-CCB6	QC		47				
BPG0186-CCB7	QC		48				
BPG0186-IFA2	QC		49		6E30072		
BPG0186-IFB2	QC		50		6E30073		

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0187

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0187-CAL1	QC		1		6F05068		
BPG0187-CAL2	QC		2		6F09001		
BPG0187-CAL3	QC		3		6F09002		
BPG0187-CAL4	QC		4		6F09003		
BPG0187-ICV1	QC		5		6F09002		
BPG0187-SCV1	QC		6		6F09006		
BPG0187-ICB1	QC		7				
BPG0187-CRL1	QC		8		6F09007		
BPG0187-CRL2	QC		9		6F09008		
BPG0187-CRL3	QC		10		6F09009		
BPG0187-IFA1	QC		11		6E30072		
BPG0187-CCB1	QC		12				
BPG0187-CCV1	QC		13		6F09002		
BPG0187-IFB1	QC		14		6E30073		
BF60904-BLK1	QC		15				
BF60904-BS1	QC		16				
BF60904-BSD1	QC		17				
0606113-18	Sb: ppm Antimony 6010	A	18				MACTEC Engineering & Consulting, In
0606113-18	Be: ppm Beryllium 6010	A	19				MACTEC Engineering & Consulting, In
0606113-18	Cd: ppm Cadmium 6010	A	20				MACTEC Engineering & Consulting, In
0606113-18	Ba: ppm Barium 6010	A	21				MACTEC Engineering & Consulting, In
0606113-18	As: ppm Arsenic 6010	A	22				MACTEC Engineering & Consulting, In
0606113-18	Cr: ppm Chromium 6010	A	23				MACTEC Engineering & Consulting, In
0606113-18	Cu: ppm Copper 6010	A	24				MACTEC Engineering & Consulting, In
0606113-18	Pb: ppm Lead 6010	A	25				MACTEC Engineering & Consulting, In
0606113-18	Ni: ppm Nickel 6010	A	26				MACTEC Engineering & Consulting, In
0606113-18	Se: ppm Selenium 6010	A	27				MACTEC Engineering & Consulting, In
0606113-18	Ag: ppm Silver 6010	A	28				MACTEC Engineering & Consulting, In
0606113-18	Tl: ppm Thallium 6010	A	29				MACTEC Engineering & Consulting, In
0606113-18	Zn: ppm Zinc 6010	A	30				MACTEC Engineering & Consulting, In
0606113-18	Al: ppm Aluminum 6010	A	31				MACTEC Engineering & Consulting, In
0606113-18	Fe: ppm Iron 6010	A	32				MACTEC Engineering & Consulting, In
0606113-18	Mg: ppm Magnesium 6010	A	33				MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

BPG0187

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606113-18	Ca: ppm Calcium 6010	A	34				MACTEC Engineering & Consulting, In
BPG0187-CCB2	QC		35				
BPG0187-CCV2	QC		36		6F09002		
BPG0187-CCV3	QC		37		6F09002		
BPG0187-CCV4	QC		38		6F09002		
BPG0187-CCV5	QC		39		6F09002		
BPG0187-CCB3	QC		40				
BPG0187-CCB4	QC		41				
BPG0187-CCB5	QC		42				
BPG0187-IFA2	QC		43		6E30072		
BPG0187-IFB2	QC		44		6E30073		
0606088-01	Ag: ppm Silver 6010	B	45				MACTEC Engineering & Consulting, In
0606088-01	Ba: ppm Barium 6010	B	46				MACTEC Engineering & Consulting, In
0606088-01	Be: ppm Beryllium 6010	B	47				MACTEC Engineering & Consulting, In
0606088-01	Cd: ppm Cadmium 6010	B	48				MACTEC Engineering & Consulting, In
0606088-01	Cr: ppm Chromium 6010	B	49				MACTEC Engineering & Consulting, In
0606088-01	Cu: ppm Copper 6010	B	50				MACTEC Engineering & Consulting, In
0606088-01	Ni: ppm Nickel 6010	B	51				MACTEC Engineering & Consulting, In
0606088-01	Se: ppm Selenium 6010	B	52				MACTEC Engineering & Consulting, In
0606088-01	Zn: ppm Zinc 6010	B	53				MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

01-16-18

ESS Laboratory
ICP Data Review Checklist

SIF: 060906UA	**Date Run:** 6/9/06
Method: Everything DW	**Y-IS:** 3594918.6
Project Number(s): 36060088, 107, 113, 122, 128, 132, 135, 134, 137, 136	**SOP NO. 30_6010B**

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the daily standard curve consist of a Calibration Blank and the required minimum number of calibration standards and is $R^2 > 0.995$ for all elements?	X		
2. Is the mid-point initial calibration standard reanalyzed immediately after calibration and results within QC limits? (±5% for 200.7, 10% for 6010B)	X		
3. Are interference check standards analyzed at the beginning of each analytical run and within QC limits?	X		
4. Is the ICV from a second source and is its percent within QC limits (±10% and %RPD< 5)?	X		
5. Is the CRI standard 20% of the true value?	X		
6. Are the CCVs analyzed at required frequency and all parameters within QC limits? (±10%)	X		
7. Are the CCB standards analyzed at required frequency and at the end of the analytical sequence and are all parameters within QC limits? (< MRL)	X		
8. Is the method blank run at the desired frequency and is its concentration for target analytes less than the MRL?	X		
9. Is the Laboratory Control Sample run at the desired frequency and is the percent recovery within QC limits? (±15% for 200.7, ±20% for 6010B)	X		
10. Is the Matrix Duplicate run at the desired frequency and is the RPD within QC limits? (± 20% for aqueous and + 35% for soil samples/ **All USACE/Navy samples ≤25%**)		X	
11. Is the matrix spike run at the desired frequency and is the percent recovery /RPD within QC limits? (75-125%)		X	
12. Is a Serial Dilution Analysis performed at the desired frequency and within QC limits? (± 10%)		X	
13. Are post-digestion spikes analyzed at the desired frequency and within QC limits? (85-115% for 200.7, 75-125% for 6010B)	X		
14. Are all samples with concentrations greater than the linear dynamic range diluted and reanalyzed?			X
15. Are all sample IDs and units checked for transcription errors?	X		
16. Are all nonconformances included and noted?	X		
17. Is the correct methodology used for sample prep and analysis?	X		
18. Are all sample holding times met?	X		
19. Did analyst sign/date the appropriate print outs and report sheets?	X		

Comments on any "No" response:
BF600914-Dupl Cu; MS1 Ag, As, Ba, Pb, Sb, Zn; SD1 Pb

113-07 X5: Re int.

Analyst: [signature] Date: 6/10/06 2nd Level Review: JW Date: 6/12/06

Page_____

Control 30.0007-0602A

04

Analytical Sequence

Method : Everything-DV

Seq.	Loc.	Sample ID	Status
1	3	CCV	QC Passed
2	1	ICCB	Being Analyzed
3	9	BF60804-BLK1	
4	10	BF60904-BS1	
5	11	BF60904-BSD1	
6	12	0606088-01	
7	13	0606107-01	
8	14	0606107-02	
9	15	0606113-18	
10	16	0606122-01	
11	17	0606128-01	
12	18	0606132-01	
13	3	CCV	
14	1	ICCB	
15	19	0606132-02	
16	20	0606132-03	
17	21	0606132-07	
18	22	BF60904-DUP1	
19	23	BF60904-MS1	
20	24	BF60904-SD1	
21	25	BF60904-PDS1	
22	26	0606135-02	
23	27	0606134-01	
24	28	BF60904-DUP2	
25	3	CCV	
26	1	ICCB	
27	29	BF60904-MS2	
28	30	BF60904-SD2	
29	31	B60904-PDS2	
30	32	0606137-01	
31	33	BF60914-BLK1	
32	34	BF60914-BS1	
33	35	BF60914-BSD1	
34	36	BF60914-SRM1	
35	37	0606113-01	
36	38	0606113-03	
37	3	CCV	
38	1	ICCB	
39	39	0606113-04	
40	40	0606113-05	
41	41	0606113-06	
42	42	0606113-07	
43	43	0606113-08	
44	44	0606113-09	
45	45	0606113-10	
46	46	0606113-11	
47	47	BF60914-DUP1	
48	48	BF60914-MS1	
49	3	CCV	
50	1	ICCB	
51	49	BF60914-SD1	
52	50	BF60914-PDS1	
53	51	0606113-12	
54	52	0606113-13	
55	53	0606113-14	
56	54	0606113-16	

Ag 0.005
As 0.05
Ba 0.01
Be 0.001
Cd 0.005
Cr 0.01
Cu 0.01
Ni 0.02
Pb 0.01
Sb 0.02
Se 0.04
Tl 0.05
Zn 0.01
B 0.01

Analytical Sequence

Method : Everything-DV

Seq.	Loc.		Sample ID	Status
57	55		0606136-01	
58	56		0606136-02	
59	57		0606136-03	
60	58		BF60914-DUP2	
61	3		CCV	
62	1		ICCB	
63	59		BF60914-MS2	
64	60		BF60914-SD2	
65	61		BF60914-PDS2	
66	3		CCV	
67	1		ICCB	
68	160		ICSA	
69	159		ICSAB	
70	0		WASH	

Analysis Begun

Start Time: 6/9/2006 11:40:32 AM
Logged In Analyst: ICP3
Spectrometer Model: Optima 4300 DV, S/N 077N1032302
Plasma On Time: 6/9/2006 10:39:41 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\060906na.sif
Batch ID: 060906na
Results Data Set: 060906nad
Results Library: Q:\Metals\Results\ICP3\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 6/9/2006 11:40:32 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Blank 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	525.9	528.1	[0.00]	mg/L	11:42:07
1	Li 670.784†	127.3	127.8	[0.00]	mg/L	11:42:07
1	Na 589.592	2273.1	2273.1	[0.00]	mg/L	11:42:07
1	Y 371.029	3081762.6	3081762.6	0.996	mg/L	11:42:21
1	Ag 328.068†	-2025.7	-2034.3	[0.00]	mg/L	11:42:26
1	Al 237.313†	-216.5	-217.4	[0.00]	mg/L	11:42:46
1	As 188.979†	8.0	8.0	[0.00]	mg/L	11:42:46
1	B 182.528†	-7.8	-7.8	[0.00]	mg/L	11:42:46
1	Ba 233.527†	-187.3	-188.1	[0.00]	mg/L	11:42:46
1	Be 313.107†	-64.3	-64.6	[0.00]	mg/L	11:42:26
1	Ca 315.886†	2178.1	2187.4	[0.00]	mg/L	11:42:26
1	Cd 228.802†	135.6	136.2	[0.00]	mg/L	11:42:46
1	Co 228.616†	-187.4	-188.2	[0.00]	mg/L	11:42:46
1	Cr 267.716†	1845.4	1853.3	[0.00]	mg/L	11:42:26
1	Cu 324.752†	2675.4	2686.8	[0.00]	mg/L	11:42:26
1	Fe 234.349†	1285.0	1290.4	[0.00]	mg/L	11:42:26
1	Fe 238.204†	746.1	749.3	[0.00]	mg/L	11:42:46
1	Mg 279.077†	670.8	673.7	[0.00]	mg/L	11:42:26
1	Mn 257.610†	1349.3	1355.1	[0.00]	mg/L	11:42:26
1	Mo 202.031†	7.2	7.2	[0.00]	mg/L	11:42:46
1	Ni 231.604†	25.8	25.9	[0.00]	mg/L	11:42:46
1	P 214.914†	43.9	44.1	[0.00]	mg/L	11:42:46
1	Pb 220.353†	-165.9	-166.7	[0.00]	mg/L	11:42:46
1	Sb 206.836†	11.8	11.9	[0.00]	mg/L	11:42:46
1	Se 196.026†	-11.4	-11.5	[0.00]	mg/L	11:42:46
1	Sn 189.927†	103.2	103.7	[0.00]	mg/L	11:42:46
1	Sr 407.771†	5817.9	5842.7	[0.00]	mg/L	11:42:21
1	Ti 337.279†	-2236.7	-2246.2	[0.00]	mg/L	11:42:26
1	Tl 190.801†	-1.6	-1.6	[0.00]	mg/L	11:42:46
1	V 292.402†	-1924.9	-1933.1	[0.00]	mg/L	11:42:26
1	Zn 213.857†	654.0	656.7	[0.00]	mg/L	11:42:46
2	K 766.490†	532.2	530.0	[0.00]	mg/L	11:42:13
2	Li 670.784†	124.1	123.5	[0.00]	mg/L	11:42:13
2	Na 589.592	2218.6	2218.6	[0.00]	mg/L	11:42:13
2	Y 371.029	3108074.6	3108074.6	1.00	mg/L	11:42:52
2	Ag 328.068†	-1988.7	-1980.3	[0.00]	mg/L	11:42:57
2	Al 237.313†	-214.2	-213.3	[0.00]	mg/L	11:43:18
2	As 188.979†	8.5	8.5	[0.00]	mg/L	11:43:18
2	B 182.528†	-4.0	-4.0	[0.00]	mg/L	11:43:18
2	Ba 233.527†	-185.0	-184.2	[0.00]	mg/L	11:43:18
2	Be 313.107†	115.9	115.4	[0.00]	mg/L	11:42:57
2	Ca 315.886†	2037.8	2029.2	[0.00]	mg/L	11:42:57
2	Cd 228.802†	139.8	139.3	[0.00]	mg/L	11:43:18
2	Co 228.616†	-189.7	-188.9	[0.00]	mg/L	11:43:18
2	Cr 267.716†	1936.7	1928.5	[0.00]	mg/L	11:42:57
2	Cu 324.752†	2666.8	2655.5	[0.00]	mg/L	11:42:57
2	Fe 234.349†	1304.7	1299.2	[0.00]	mg/L	11:42:57
2	Fe 238.204†	735.2	732.1	[0.00]	mg/L	11:43:18

2	Mg 279.077†	595.9	593.4	[0.00] mg/L	11:42:57
2	Mn 257.610†	1238.8	1233.6	[0.00] mg/L	11:42:57
2	Mo 202.031†	16.0	15.9	[0.00] mg/L	11:43:18
2	Ni 231.604†	32.5	32.3	[0.00] mg/L	11:43:18
2	P 214.914†	44.0	43.8	[0.00] mg/L	11:43:18
2	Pb 220.353†	-157.1	-156.5	[0.00] mg/L	11:43:18
2	Sb 206.836†	2.4	2.4	[0.00] mg/L	11:43:18
2	Se 196.026†	-11.1	-11.0	[0.00] mg/L	11:43:18
2	Sn 189.927†	103.0	102.6	[0.00] mg/L	11:43:18
2	Sr 407.771†	5873.2	5848.3	[0.00] mg/L	11:42:52
2	Ti 337.279†	-2255.0	-2245.5	[0.00] mg/L	11:42:57
2	Tl 190.801†	-8.5	-8.4	[0.00] mg/L	11:43:18
2	V 292.402†	-1918.6	-1910.5	[0.00] mg/L	11:42:57
2	Zn 213.857†	650.0	647.2	[0.00] mg/L	11:43:18

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3094918.6	18605.40	0.60%	1.00	mg/L
Ag 328.068†	-2007.3	38.20	1.90%	[0.00]	mg/L
Al 237.313†	-215.4	2.87	1.33%	[0.00]	mg/L
As 188.979†	8.3	0.35	4.28%	[0.00]	mg/L
B 182.528†	-5.9	2.68	45.47%	[0.00]	mg/L
Ba 233.527†	-186.1	2.75	1.47%	[0.00]	mg/L
Be 313.107†	25.4	127.24	500.99%	[0.00]	mg/L
Ca 315.886†	2108.3	111.84	5.30%	[0.00]	mg/L
Cd 228.802†	137.7	2.14	1.56%	[0.00]	mg/L
Co 228.616†	-188.6	0.51	0.27%	[0.00]	mg/L
Cr 267.716†	1890.9	53.19	2.81%	[0.00]	mg/L
Cu 324.752†	2671.2	22.15	0.83%	[0.00]	mg/L
Fe 234.349†	1294.8	6.20	0.48%	[0.00]	mg/L
Fe 238.204†	740.7	12.14	1.64%	[0.00]	mg/L
K 766.490†	529.1	1.31	0.25%	[0.00]	mg/L
Li 670.784†	125.7	3.03	2.41%	[0.00]	mg/L
Mg 279.077†	633.6	56.79	8.96%	[0.00]	mg/L
Mn 257.610†	1294.3	85.92	6.64%	[0.00]	mg/L
Mo 202.031†	11.6	6.13	53.02%	[0.00]	mg/L
Na 589.592	2245.8	38.55	1.72%	[0.00]	mg/L
Ni 231.604†	29.1	4.56	15.64%	[0.00]	mg/L
P 214.914†	44.0	0.22	0.49%	[0.00]	mg/L
Pb 220.353†	-161.6	7.20	4.46%	[0.00]	mg/L
Sb 206.836†	7.1	6.67	93.32%	[0.00]	mg/L
Se 196.026†	-11.2	0.33	2.93%	[0.00]	mg/L
Sn 189.927†	103.1	0.77	0.75%	[0.00]	mg/L
Sr 407.771†	5845.5	3.96	0.07%	[0.00]	mg/L
Ti 337.279†	-2245.8	0.52	0.02%	[0.00]	mg/L
Tl 190.801†	-5.0	4.84	96.48%	[0.00]	mg/L
V 292.402†	-1921.8	15.98	0.83%	[0.00]	mg/L
Zn 213.857†	652.0	6.73	1.03%	[0.00]	mg/L

Sequence No.: 2
Sample ID: Calib Std 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/9/2006 11:44:55 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	9691.2	9392.7	[5.0000]	mg/L	11:46:29
1	Li 670.784†	3670.0	3631.7	[0.1]	mg/L	11:46:29
1	Na 589.592	45467.4	43221.6	[5.0000]	mg/L	11:46:29
1	Y 371.029	3023008.7	3023008.7	0.977	mg/L	11:46:42
1	Ag 328.068†	11121.9	13393.8	[0.05]	mg/L	11:46:48
1	Al 237.313†	3779.8	4085.1	[0.5]	mg/L	11:46:48
1	As 188.979†	83.2	77.0	[0.1000]	mg/L	11:47:08
1	B 182.528†	45.4	52.4	[0.1000]	mg/L	11:47:08
1	Ba 233.527†	11023.8	11472.2	[0.1000]	mg/L	11:46:48
1	Be 313.107†	43610.2	44622.2	[0.0100]	mg/L	11:46:48

1	Ca 315.886†	151347.3	152839.2	[1.0000]	mg/L	11:46:42
1	Cd 228.802†	2265.3	2181.4	[0.0500]	mg/L	11:47:08
1	Co 228.616†	3909.1	4190.7	[0.1000]	mg/L	11:47:08
1	Cr 267.716†	16540.4	15042.9	[0.1000]	mg/L	11:46:48
1	Cu 324.752†	26836.0	24803.2	[0.1000]	mg/L	11:46:48
1	Fe 234.349†	27000.5	26347.9	[0.5]	mg/L	11:46:48
1	Fe 238.204†	58774.8	59432.2	[0.5]	mg/L	11:46:48
1	Mg 279.077†	25080.2	25043.2	[1.0000]	mg/L	11:46:48
1	Mn 257.610†	91884.5	92775.8	[0.1000]	mg/L	11:46:48
1	Mo 202.031†	1476.6	1500.1	[0.1000]	mg/L	11:47:08
1	Ni 231.604†	3334.8	3385.0	[0.1000]	mg/L	11:46:48
1	P 214.914†	1444.9	1435.3	[1]	mg/L	11:47:08
1	Pb 220.353†	725.5	904.3	[0.1000]	mg/L	11:47:08
1	Sb 206.836†	217.3	215.3	[0.1000]	mg/L	11:47:08
1	Se 196.026†	168.1	183.3	[0.2000]	mg/L	11:47:08
1	Sn 189.927†	477.9	386.1	[0.1000]	mg/L	11:47:08
1	Sr 407.771†	216606.0	215913.0	[0.0100]	mg/L	11:46:42
1	Ti 337.279†	69091.0	72980.4	[0.1000]	mg/L	11:46:48
1	Tl 190.801†	128.0	136.1	[0.1000]	mg/L	11:47:08
1	V 292.402†	19686.3	22076.4	[0.1000]	mg/L	11:46:48
1	Zn 213.857†	8791.8	8349.0	[0.1000]	mg/L	11:46:48
2	K 766.490†	9451.2	8971.9	[5.0000]	mg/L	11:46:34
2	Li 670.784†	3728.1	3622.0	[0.1]	mg/L	11:46:34
2	Na 589.592	45033.0	42787.2	[5.0000]	mg/L	11:46:34
2	Y 371.029	3078738.4	3078738.4	0.995	mg/L	11:47:14
2	Ag 328.068†	11140.3	13206.1	[0.05]	mg/L	11:47:19
2	Al 237.313†	3802.7	4038.0	[0.5]	mg/L	11:47:19
2	As 188.979†	81.6	73.8	[0.1000]	mg/L	11:47:39
2	B 182.528†	43.2	49.3	[0.1000]	mg/L	11:47:39
2	Ba 233.527†	10964.9	11208.7	[0.1000]	mg/L	11:47:19
2	Be 313.107†	43919.3	44124.7	[0.0100]	mg/L	11:47:19
2	Ca 315.886†	154703.4	153408.1	[1.0000]	mg/L	11:47:14
2	Cd 228.802†	2264.6	2138.7	[0.0500]	mg/L	11:47:39
2	Co 228.616†	3876.9	4085.8	[0.1000]	mg/L	11:47:39
2	Cr 267.716†	16698.1	14894.9	[0.1000]	mg/L	11:47:19
2	Cu 324.752†	26983.8	24454.5	[0.1000]	mg/L	11:47:19
2	Fe 234.349†	27144.7	25992.5	[0.5]	mg/L	11:47:19
2	Fe 238.204†	59302.5	58873.5	[0.5]	mg/L	11:47:19
2	Mg 279.077†	25309.6	24809.1	[1.0000]	mg/L	11:47:19
2	Mn 257.610†	92434.5	91626.0	[0.1000]	mg/L	11:47:19
2	Mo 202.031†	1463.0	1459.1	[0.1000]	mg/L	11:47:39
2	Ni 231.604†	3338.3	3326.7	[0.1000]	mg/L	11:47:19
2	P 214.914†	1449.3	1413.0	[1]	mg/L	11:47:39
2	Pb 220.353†	728.1	893.5	[0.1000]	mg/L	11:47:39
2	Sb 206.836†	215.2	209.2	[0.1000]	mg/L	11:47:39
2	Se 196.026†	169.6	181.7	[0.2000]	mg/L	11:47:39
2	Sn 189.927†	491.5	390.9	[0.1000]	mg/L	11:47:39
2	Sr 407.771†	220198.3	215510.0	[0.0100]	mg/L	11:47:14
2	Ti 337.279†	69296.4	71906.4	[0.1000]	mg/L	11:47:19
2	Tl 190.801†	122.6	128.3	[0.1000]	mg/L	11:47:39
2	V 292.402†	19811.6	21837.5	[0.1000]	mg/L	11:47:19
2	Zn 213.857†	8859.7	8254.3	[0.1000]	mg/L	11:47:19

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3050873.6	39406.86	1.29%	0.986	mg/L
Ag 328.068†	13300.0	132.68	1.00%	[0.05]	mg/L
Al 237.313†	4061.5	33.29	0.82%	[0.5]	mg/L
As 188.979†	75.4	2.26	2.99%	[0.1000]	mg/L
B 182.528†	50.9	2.22	4.36%	[0.1000]	mg/L
Ba 233.527†	11340.4	186.32	1.64%	[0.1000]	mg/L
Be 313.107†	44373.4	351.80	0.79%	[0.0100]	mg/L
Ca 315.886†	153123.6	402.29	0.26%	[1.0000]	mg/L
Cd 228.802†	2160.1	30.18	1.40%	[0.0500]	mg/L
Co 228.616†	4138.2	74.15	1.79%	[0.1000]	mg/L
Cr 267.716†	14968.9	104.65	0.70%	[0.1000]	mg/L
Cu 324.752†	24628.9	246.58	1.00%	[0.1000]	mg/L
Fe 234.349†	26170.2	251.33	0.96%	[0.5]	mg/L
Fe 238.204†	59152.9	395.08	0.67%	[0.5]	mg/L
K 766.490†	9182.3	297.55	3.24%	[5.0000]	mg/L

Li 670.784†	3626.8	6.83	0.19%	[0.1]	mg/L
Mg 279.077†	24926.1	165.53	0.66%	[1.0000]	mg/L
Mn 257.610†	92200.9	813.09	0.88%	[0.1000]	mg/L
Mo 202.031†	1479.6	29.01	1.96%	[0.1000]	mg/L
Na 589.592	43004.4	307.14	0.71%	[5.0000]	mg/L
Ni 231.604†	3355.8	41.22	1.23%	[0.1000]	mg/L
P 214.914†	1424.1	15.75	1.11%	[1]	mg/L
Pb 220.353†	898.9	7.64	0.85%	[0.1000]	mg/L
Sb 206.836†	212.3	4.35	2.05%	[0.1000]	mg/L
Se 196.026†	182.5	1.10	0.60%	[0.2000]	mg/L
Sn 189.927†	388.5	3.42	0.88%	[0.1000]	mg/L
Sr 407.771†	215711.5	284.90	0.13%	[0.0100]	mg/L
Ti 337.279†	72443.4	759.40	1.05%	[0.1000]	mg/L
Tl 190.801†	132.2	5.54	4.19%	[0.1000]	mg/L
V 292.402†	21956.9	168.94	0.77%	[0.1000]	mg/L
Zn 213.857†	8301.6	66.98	0.81%	[0.1000]	mg/L

Sequence No.: 3
Sample ID: Calib Std 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/9/2006 11:49:17 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	45132.9	45993.2	[25.0000]	mg/L	11:50:55
1	Li 670.784†	17462.8	17874.6	[0.5]	mg/L	11:50:55
1	Na 589.592	209824.1	207578.3	[25.000]	mg/L	11:50:55
1	Y 371.029	3002491.5	3002491.5	0.970	mg/L	11:51:09
1	Ag 328.068†	62934.7	66879.3	[0.25]	mg/L	11:51:15
1	Al 237.313†	19570.0	20387.8	[2.5]	mg/L	11:51:15
1	As 188.979†	375.1	378.4	[0.5000]	mg/L	11:51:35
1	B 182.528†	236.9	250.1	[0.5000]	mg/L	11:51:35
1	Ba 233.527†	54492.3	56355.9	[0.5000]	mg/L	11:51:15
1	Be 313.107†	216517.8	223157.5	[0.0500]	mg/L	11:51:15
1	Ca 315.886†	744838.6	765659.0	[5.0000]	mg/L	11:51:09
1	Cd 228.802†	10551.0	10738.0	[0.2500]	mg/L	11:51:35
1	Co 228.616†	19264.1	20045.7	[0.5000]	mg/L	11:51:15
1	Cr 267.716†	73955.0	74340.6	[0.5000]	mg/L	11:51:15
1	Cu 324.752†	121101.6	122158.3	[0.5000]	mg/L	11:51:15
1	Fe 234.349†	126901.6	129513.3	[2.5]	mg/L	11:51:15
1	Fe 238.204†	283801.2	291796.9	[2.5]	mg/L	11:51:15
1	Mg 279.077†	119839.4	122894.9	[5.0000]	mg/L	11:51:15
1	Mn 257.610†	437712.8	449892.8	[0.5000]	mg/L	11:51:09
1	Mo 202.031†	7182.4	7391.9	[0.5000]	mg/L	11:51:35
1	Ni 231.604†	16022.8	16486.9	[0.5000]	mg/L	11:51:15
1	P 214.914†	7001.7	7173.3	[5]	mg/L	11:51:35
1	Pb 220.353†	4103.8	4391.7	[0.5000]	mg/L	11:51:35
1	Sb 206.836†	1037.0	1061.8	[0.5000]	mg/L	11:51:35
1	Se 196.026†	840.1	877.2	[1.0000]	mg/L	11:51:35
1	Sn 189.927†	1998.8	1957.2	[0.5000]	mg/L	11:51:35
1	Sr 407.771†	1034472.9	1060472.0	[0.0500]	mg/L	11:51:09
1	Ti 337.279†	353013.4	366126.2	[0.5000]	mg/L	11:51:15
1	Tl 190.801†	634.3	658.8	[0.5000]	mg/L	11:51:35
1	V 292.402†	105188.3	110348.1	[0.5000]	mg/L	11:51:15
1	Zn 213.857†	40613.5	41211.8	[0.5000]	mg/L	11:51:15
2	K 766.490†	45405.9	46163.6	[25.0000]	mg/L	11:51:00
2	Li 670.784†	17618.2	17991.8	[0.5]	mg/L	11:51:00
2	Na 589.592	212203.2	209957.3	[25.000]	mg/L	11:51:00
2	Y 371.029	3009626.3	3009626.3	0.972	mg/L	11:51:42
2	Ag 328.068†	63360.1	67163.0	[0.25]	mg/L	11:51:47
2	Al 237.313†	19776.0	20551.9	[2.5]	mg/L	11:51:47
2	As 188.979†	373.1	375.4	[0.5000]	mg/L	11:52:07
2	B 182.528†	237.2	249.8	[0.5000]	mg/L	11:52:07
2	Ba 233.527†	55051.6	56797.9	[0.5000]	mg/L	11:51:47
2	Be 313.107†	218607.3	224777.2	[0.0500]	mg/L	11:51:47
2	Ca 315.886†	746137.7	765174.8	[5.0000]	mg/L	11:51:42
2	Cd 228.802†	10458.5	10617.2	[0.2500]	mg/L	11:52:07
2	Co 228.616†	19443.8	20183.4	[0.5000]	mg/L	11:51:47

2	Cr 267.716†	74542.6	74764.2	[0.5000]	mg/L	11:51:47
2	Cu 324.752†	121623.6	122399.2	[0.5000]	mg/L	11:51:47
2	Fe 234.349†	128308.4	130649.8	[2.5]	mg/L	11:51:47
2	Fe 238.204†	286501.4	293880.1	[2.5]	mg/L	11:51:47
2	Mg 279.077†	121115.3	123914.1	[5.0000]	mg/L	11:51:47
2	Mn 257.610†	438290.2	449416.9	[0.5000]	mg/L	11:51:42
2	Mo 202.031†	7156.0	7347.3	[0.5000]	mg/L	11:52:07
2	Ni 231.604†	16170.5	16599.6	[0.5000]	mg/L	11:51:47
2	P 214.914†	6925.5	7077.8	[5]	mg/L	11:52:07
2	Pb 220.353†	4069.1	4345.9	[0.5000]	mg/L	11:52:07
2	Sb 206.836†	1020.4	1042.2	[0.5000]	mg/L	11:52:07
2	Se 196.026†	832.4	867.2	[1.0000]	mg/L	11:52:07
2	Sn 189.927†	1992.6	1946.0	[0.5000]	mg/L	11:52:07
2	Sr 407.771†	1037787.9	1061353.0	[0.0500]	mg/L	11:51:42
2	Ti 337.279†	355962.4	368296.2	[0.5000]	mg/L	11:51:47
2	Tl 190.801†	629.4	652.3	[0.5000]	mg/L	11:52:07
2	V 292.402†	106184.4	111115.5	[0.5000]	mg/L	11:51:47
2	Zn 213.857†	40994.2	41504.0	[0.5000]	mg/L	11:51:47

Mean Data: Calib Std 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3006058.9	5045.09	0.17%	0.971	mg/L
Ag 328.068†	67021.2	200.59	0.30%	[0.25]	mg/L
Al 237.313†	20469.8	116.03	0.57%	[2.5]	mg/L
As 188.979†	376.9	2.10	0.56%	[0.5000]	mg/L
B 182.528†	249.9	0.20	0.08%	[0.5000]	mg/L
Ba 233.527†	56576.9	312.50	0.55%	[0.5000]	mg/L
Be 313.107†	223967.3	1145.25	0.51%	[0.0500]	mg/L
Ca 315.886†	765416.9	342.40	0.04%	[5.0000]	mg/L
Cd 228.802†	10677.6	85.44	0.80%	[0.2500]	mg/L
Co 228.616†	20114.5	97.38	0.48%	[0.5000]	mg/L
Cr 267.716†	74552.4	299.52	0.40%	[0.5000]	mg/L
Cu 324.752†	122278.8	170.35	0.14%	[0.5000]	mg/L
Fe 234.349†	130081.5	803.68	0.62%	[2.5]	mg/L
Fe 238.204†	292838.5	1473.00	0.50%	[2.5]	mg/L
K 766.490†	46078.4	120.54	0.26%	[25.0000]	mg/L
Li 670.784†	17933.2	82.85	0.46%	[0.5]	mg/L
Mg 279.077†	123404.5	720.68	0.58%	[5.0000]	mg/L
Mn 257.610†	449654.9	336.52	0.07%	[0.5000]	mg/L
Mo 202.031†	7369.6	31.58	0.43%	[0.5000]	mg/L
Na 589.592	208767.8	1682.24	0.81%	[25.000]	mg/L
Ni 231.604†	16543.3	79.69	0.48%	[0.5000]	mg/L
P 214.914†	7125.5	67.51	0.95%	[5]	mg/L
Pb 220.353†	4368.8	32.37	0.74%	[0.5000]	mg/L
Sb 206.836†	1052.0	13.89	1.32%	[0.5000]	mg/L
Se 196.026†	872.2	7.07	0.81%	[1.0000]	mg/L
Sn 189.927†	1951.6	7.92	0.41%	[0.5000]	mg/L
Sr 407.771†	1060912.5	622.98	0.06%	[0.0500]	mg/L
Ti 337.279†	367211.2	1534.40	0.42%	[0.5000]	mg/L
Tl 190.801†	655.6	4.63	0.71%	[0.5000]	mg/L
V 292.402†	110731.8	542.61	0.49%	[0.5000]	mg/L
Zn 213.857†	41357.9	206.65	0.50%	[0.5000]	mg/L

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Sequence No.: 4
Sample ID: Calib Std 3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/9/2006 11:53:46 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 3

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	89440.8	92147.6	[50.0000]	mg/L	11:55:22
1	Li 670.784†	33898.7	34999.5	[1]	mg/L	11:55:22
1	Na 589.592	410293.7	408047.9	[50.000]	mg/L	11:55:22
1	Y 371.029	2986858.1	2986858.1	0.965	mg/L	11:55:39
1	Ag 328.068†	126581.7	133168.6	[0.5]	mg/L	11:55:45
1	Al 237.313†	39230.8	40865.5	[5]	mg/L	11:55:45

1	As 188.979†	709.2	726.6	[1.0000]	mg/L	11:56:05
1	B 182.528†	466.4	489.2	[1.0000]	mg/L	11:56:05
1	Ba 233.527†	108211.3	112312.4	[1.0000]	mg/L	11:55:45
1	Be 313.107†	430973.2	446539.9	[0.1000]	mg/L	11:55:45
1	Ca 315.886†	1465135.9	1516034.2	[10.0000]	mg/L	11:55:39
1	Cd 228.802†	20444.3	21046.2	[0.5000]	mg/L	11:56:05
1	Co 228.616†	38301.4	39875.6	[1.0000]	mg/L	11:56:05
1	Cr 267.716†	144534.3	147872.4	[1.0000]	mg/L	11:55:45
1	Cu 324.752†	236446.6	242329.7	[1.0000]	mg/L	11:55:45
1	Fe 234.349†	250601.6	258373.1	[5.0]	mg/L	11:55:45
1	Fe 238.204†	559609.8	579115.0	[5.0]	mg/L	11:55:45
1	Mg 279.077†	235763.7	243659.7	[10.0000]	mg/L	11:55:45
1	Mn 257.610†	855041.8	884681.7	[1.0000]	mg/L	11:55:39
1	Mo 202.031†	14081.8	14579.7	[1.0000]	mg/L	11:56:05
1	Ni 231.604†	31402.9	32509.9	[1.0000]	mg/L	11:55:45
1	P 214.914†	13765.2	14219.2	[10]	mg/L	11:56:05
1	Pb 220.353†	8182.0	8639.6	[1.0000]	mg/L	11:56:05
1	Sb 206.836†	2012.6	2078.2	[1.0000]	mg/L	11:56:05
1	Se 196.026†	1619.4	1689.3	[2.0000]	mg/L	11:56:05
1	Sn 189.927†	3807.6	3842.3	[1.0000]	mg/L	11:56:05
1	Sr 407.771†	2019197.7	2086404.0	[0.1000]	mg/L	11:55:39
1	Ti 337.279†	704793.3	732537.6	[1.0000]	mg/L	11:55:45
1	Tl 190.801†	1225.5	1274.8	[1.0000]	mg/L	11:56:05
1	V 292.402†	211416.3	220986.9	[1.0000]	mg/L	11:55:45
1	Zn 213.857†	80037.5	82281.2	[1.0000]	mg/L	11:55:45
2	K 766.490†	88862.1	92012.0	[50.0000]	mg/L	11:55:28
2	Li 670.784†	33420.8	34678.8	[1]	mg/L	11:55:28
2	Na 589.592	406851.2	404605.3	[50.000]	mg/L	11:55:28
2	Y 371.029	2971879.1	2971879.1	0.960	mg/L	11:56:13
2	Ag 328.068†	124776.2	131949.4	[0.5]	mg/L	11:56:19
2	Al 237.313†	38803.1	40625.0	[5]	mg/L	11:56:19
2	As 188.979†	715.0	736.3	[1.0000]	mg/L	11:56:39
2	B 182.528†	467.4	492.6	[1.0000]	mg/L	11:56:39
2	Ba 233.527†	106794.6	111402.1	[1.0000]	mg/L	11:56:19
2	Be 313.107†	425653.4	443250.6	[0.1000]	mg/L	11:56:19
2	Ca 315.886†	1456851.0	1515058.1	[10.0000]	mg/L	11:56:13
2	Cd 228.802†	20443.3	21151.9	[0.5000]	mg/L	11:56:39
2	Co 228.616†	38235.1	40006.6	[1.0000]	mg/L	11:56:39
2	Cr 267.716†	142782.0	146802.4	[1.0000]	mg/L	11:56:19
2	Cu 324.752†	233169.2	240151.5	[1.0000]	mg/L	11:56:19
2	Fe 234.349†	247139.4	256076.4	[5.0]	mg/L	11:56:19
2	Fe 238.204†	552947.8	575099.9	[5.0]	mg/L	11:56:19
2	Mg 279.077†	233028.6	242042.7	[10.0000]	mg/L	11:56:19
2	Mn 257.610†	850072.9	883972.6	[1.0000]	mg/L	11:56:13
2	Mo 202.031†	14048.0	14618.0	[1.0000]	mg/L	11:56:39
2	Ni 231.604†	30753.2	31997.3	[1.0000]	mg/L	11:56:19
2	P 214.914†	13739.6	14264.5	[10]	mg/L	11:56:39
2	Pb 220.353†	8122.0	8619.8	[1.0000]	mg/L	11:56:39
2	Sb 206.836†	2002.0	2077.8	[1.0000]	mg/L	11:56:39
2	Se 196.026†	1642.8	1722.1	[2.0000]	mg/L	11:56:39
2	Sn 189.927†	3788.5	3842.2	[1.0000]	mg/L	11:56:39
2	Sr 407.771†	2011238.3	2088660.5	[0.1000]	mg/L	11:56:13
2	Ti 337.279†	696757.1	727849.5	[1.0000]	mg/L	11:56:19
2	Tl 190.801†	1230.6	1286.5	[1.0000]	mg/L	11:56:39
2	V 292.402†	208397.3	218947.0	[1.0000]	mg/L	11:56:19
2	Zn 213.857†	78870.4	81483.8	[1.0000]	mg/L	11:56:19

Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	2979368.6	10591.78	0.36%	0.963	mg/L
Ag 328.068†	132559.0	862.10	0.65%	[0.5]	mg/L
Al 237.313†	40745.2	170.04	0.42%	[5]	mg/L
As 188.979†	731.5	6.83	0.93%	[1.0000]	mg/L
B 182.528†	490.9	2.42	0.49%	[1.0000]	mg/L
Ba 233.527†	111857.3	643.64	0.58%	[1.0000]	mg/L
Be 313.107†	444895.2	2325.86	0.52%	[0.1000]	mg/L
Ca 315.886†	1515546.2	690.18	0.05%	[10.0000]	mg/L
Cd 228.802†	21099.0	74.77	0.35%	[0.5000]	mg/L
Co 228.616†	39941.1	92.66	0.23%	[1.0000]	mg/L
Cr 267.716†	147337.4	756.64	0.51%	[1.0000]	mg/L

Cu 324.752†	241240.6	1540.24	0.64%	[1.0000]	mg/L
Fe 234.349†	257224.8	1624.04	0.63%	[5.0]	mg/L
Fe 238.204†	577107.4	2839.14	0.49%	[5.0]	mg/L
K 766.490†	92079.8	95.86	0.10%	[50.0000]	mg/L
Li 670.784†	34839.1	226.73	0.65%	[1]	mg/L
Mg 279.077†	242851.2	1143.41	0.47%	[10.0000]	mg/L
Mn 257.610†	884327.2	501.40	0.06%	[1.0000]	mg/L
Mo 202.031†	14598.9	27.12	0.19%	[1.0000]	mg/L
Na 589.592	406326.6	2434.23	0.60%	[50.000]	mg/L
Ni 231.604†	32253.6	362.45	1.12%	[1.0000]	mg/L
P 214.914†	14241.9	31.99	0.22%	[10]	mg/L
Pb 220.353†	8629.7	14.01	0.16%	[1.0000]	mg/L
Sb 206.836†	2078.0	0.32	0.02%	[1.0000]	mg/L
Se 196.026†	1705.7	23.20	1.36%	[2.0000]	mg/L
Sn 189.927†	3842.3	0.01	0.00%	[1.0000]	mg/L
Sr 407.771†	2087532.2	1595.58	0.08%	[0.1000]	mg/L
Ti 337.279†	730193.6	3314.98	0.45%	[1.0000]	mg/L
Tl 190.801†	1280.7	8.26	0.65%	[1.0000]	mg/L
V 292.402†	219966.9	1442.40	0.66%	[1.0000]	mg/L
Zn 213.857†	81882.5	563.86	0.69%	[1.0000]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	157.1	265300	0.00000	0.999982	
Al 237.313	3	Lin, Calc Int	12.3	8153	0.00000	0.999996	
As 188.979	3	Lin, Calc Int	3.1	732.2	0.00000	0.999872	
B 182.528	3	Lin, Calc Int	1.6	490.8	0.00000	0.999955	
Ba 233.527	3	Lin, Calc Int	188.9	111900	0.00000	0.999982	
Be 313.107	3	Lin, Calc Int	230.4	4452000	0.00000	0.999993	
Ca 315.886	3	Lin, Calc Int	2113.7	151600	0.00000	0.999986	
Cd 228.802	3	Lin, Calc Int	46.0	42190	0.00000	0.999980	
Co 228.616	3	Lin, Calc Int	90.6	39890	0.00000	0.999990	
Cr 267.716	3	Lin, Calc Int	268.2	147400	0.00000	0.999981	
Cu 324.752	3	Lin, Calc Int	531.5	241300	0.00000	0.999975	
Fe 234.349	3	Lin, Calc Int	471.1	51450	0.00000	0.999982	
Fe 238.204	3	Lin, Calc Int	1434.4	115400	0.00000	0.999970	
K 766.490	3	Lin, Calc Int	-4.3	1842	0.00000	1.000000	
Li 670.784	3	Lin, Calc Int	158.7	34850	0.00000	0.999883	
Mg 279.077	3	Lin, Calc Int	651.4	24290	0.00000	0.999964	
Mn 257.610	3	Lin, Calc Int	3060.9	883700	0.00000	0.999960	
Mo 202.031	3	Lin, Calc Int	21.8	14600	0.00000	0.999988	
Na 589.592	3	Lin, Calc Int	2091.5	8122	0.00000	0.999897	
Ni 231.604	3	Lin, Calc Int	135.1	32260	0.00000	0.999910	
P 214.914	3	Lin, Calc Int	0.8	1424	0.00000	1.000000	
Pb 220.353	3	Lin, Calc Int	25.9	8621	0.00000	0.999977	
Sb 206.836	3	Lin, Calc Int	4.4	2078	0.00000	0.999979	
Se 196.026	3	Lin, Calc Int	8.9	851.5	0.00000	0.999925	
Sn 189.927	3	Lin, Calc Int	7.5	3845	0.00000	0.999965	
Sr 407.771	3	Lin, Calc Int	6266.7	20870000	0.00000	0.999964	
Ti 337.279	3	Lin, Calc Int	136.7	730800	0.00000	0.999994	
Tl 190.801	3	Lin, Calc Int	4.7	1281	0.00000	0.999924	
V 292.402	3	Lin, Calc Int	121.2	220100	0.00000	0.999993	
Zn 213.857	3	Lin, Calc Int	127.6	81890	0.00000	0.999986	

Sequence No.: 5
Sample ID: STD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/9/2006 11:58:18 AM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: STD2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490†	45421.8	46151.4	25.06	mg/L	25.06	mg/L	11:59:53
1	Li 670.784†	17862.4	18231.6	0.5186	mg/L	0.5186	mg/L	11:59:53
1	Na 589.592	210142.1	207896.3	25.34	mg/L	25.34	mg/L	11:59:53
1	Y 371.029	3011473.1	3011473.1	0.973	mg/L			12:00:07
1	Ag 328.068†	63220.7	66979.8	0.2523	mg/L	0.2523	mg/L	12:00:13

1	Al 237.313†	19625.4	20384.6	2.490 mg/L	2.490 mg/L	12:00:13
1	As 188.979†	370.0	372.0	0.5028 mg/L	0.5028 mg/L	12:00:33
1	B 182.528†	235.9	248.3	0.5026 mg/L	0.5026 mg/L	12:00:33
1	Ba 233.527†	54654.6	56355.2	0.5019 mg/L	0.5019 mg/L	12:00:13
1	Be 313.107†	216596.9	222573.2	0.0495 mg/L	0.0495 mg/L	12:00:13
1	Ca 315.886†	745429.9	763976.8	5.028 mg/L	5.028 mg/L	12:00:07
1	Cd 228.802†	10495.8	10648.9	0.2511 mg/L	0.2511 mg/L	12:00:33
1	Co 228.616†	19302.7	20026.1	0.4985 mg/L	0.4985 mg/L	12:00:13
1	Cr 267.716†	74000.7	74160.3	0.5010 mg/L	0.5010 mg/L	12:00:13
1	Cu 324.752†	121275.3	121964.5	0.5041 mg/L	0.5041 mg/L	12:00:13
1	Fe 234.349†	127223.2	129453.6	2.501 mg/L	2.501 mg/L	12:00:13
1	Fe 238.204†	284325.8	291463.5	2.513 mg/L	2.513 mg/L	12:00:13
1	Mg 279.077†	119994.0	122685.4	5.029 mg/L	5.029 mg/L	12:00:13
1	Mn 257.610†	437534.0	448363.3	0.5040 mg/L	0.5040 mg/L	12:00:07
1	Mo 202.031†	7155.6	7342.3	0.5014 mg/L	0.5014 mg/L	12:00:33
1	Ni 231.604†	16002.3	16416.6	0.5053 mg/L	0.5053 mg/L	12:00:13
1	P 214.914†	6947.9	7096.5	4.982 mg/L	4.982 mg/L	12:00:33
1	Pb 220.353†	4087.6	4362.4	0.5042 mg/L	0.5042 mg/L	12:00:33
1	Sb 206.836†	1031.8	1053.2	0.4941 mg/L	0.4941 mg/L	12:00:33
1	Se 196.026†	840.0	874.6	1.017 mg/L	1.017 mg/L	12:00:33
1	Sn 189.927†	1993.0	1945.1	0.5045 mg/L	0.5045 mg/L	12:00:33
1	Sr 407.771†	1036428.2	1059301.3	0.0505 mg/L	0.0505 mg/L	12:00:07
1	Ti 337.279†	353369.3	365406.7	0.4998 mg/L	0.4998 mg/L	12:00:13
1	Tl 190.801†	639.1	661.9	0.5156 mg/L	0.5156 mg/L	12:00:33
1	V 292.402†	105467.7	110312.0	0.5077 mg/L	0.5077 mg/L	12:00:13
1	Zn 213.857†	40569.6	41041.8	0.4971 mg/L	0.4971 mg/L	12:00:13
2	K 766.490†	45557.7	46345.9	25.16 mg/L	25.16 mg/L	11:59:58
2	Li 670.784†	17886.2	18277.7	0.5199 mg/L	0.5199 mg/L	11:59:58
2	Na 589.592	212243.0	209997.2	25.60 mg/L	25.60 mg/L	11:59:58
2	Y 371.029	3007942.8	3007942.8	0.972 mg/L		12:00:39
2	Ag 328.068†	62991.1	66819.9	0.2517 mg/L	0.2517 mg/L	12:00:45
2	Al 237.313†	19535.8	20316.0	2.481 mg/L	2.481 mg/L	12:00:45
2	As 188.979†	364.1	366.4	0.4950 mg/L	0.4950 mg/L	12:01:05
2	B 182.528†	238.5	251.3	0.5088 mg/L	0.5088 mg/L	12:01:05
2	Ba 233.527†	54328.5	56085.6	0.4995 mg/L	0.4995 mg/L	12:00:45
2	Be 313.107†	215617.8	221827.1	0.0493 mg/L	0.0493 mg/L	12:00:45
2	Ca 315.886†	743231.3	762613.8	5.019 mg/L	5.019 mg/L	12:00:39
2	Cd 228.802†	10462.1	10626.9	0.2506 mg/L	0.2506 mg/L	12:01:05
2	Co 228.616†	19285.8	20032.0	0.4987 mg/L	0.4987 mg/L	12:00:45
2	Cr 267.716†	73534.6	73769.9	0.4984 mg/L	0.4984 mg/L	12:00:45
2	Cu 324.752†	120917.5	121742.7	0.5031 mg/L	0.5031 mg/L	12:00:45
2	Fe 234.349†	126656.7	129024.2	2.493 mg/L	2.493 mg/L	12:00:45
2	Fe 238.204†	283137.1	290583.5	2.506 mg/L	2.506 mg/L	12:00:45
2	Mg 279.077†	119315.8	122132.3	5.006 mg/L	5.006 mg/L	12:00:45
2	Mn 257.610†	436653.8	447985.5	0.5036 mg/L	0.5036 mg/L	12:00:39
2	Mo 202.031†	7171.4	7367.2	0.5031 mg/L	0.5031 mg/L	12:01:05
2	Ni 231.604†	15884.9	16315.1	0.5022 mg/L	0.5022 mg/L	12:00:45
2	P 214.914†	6935.6	7092.2	4.979 mg/L	4.979 mg/L	12:01:05
2	Pb 220.353†	4076.4	4355.8	0.5034 mg/L	0.5034 mg/L	12:01:05
2	Sb 206.836†	1029.1	1051.7	0.4934 mg/L	0.4934 mg/L	12:01:05
2	Se 196.026†	830.5	865.8	1.006 mg/L	1.006 mg/L	12:01:05
2	Sn 189.927†	1982.7	1936.9	0.5024 mg/L	0.5024 mg/L	12:01:05
2	Sr 407.771†	1033790.2	1057837.1	0.0504 mg/L	0.0504 mg/L	12:00:39
2	Ti 337.279†	351209.2	363610.4	0.4974 mg/L	0.4974 mg/L	12:00:45
2	Tl 190.801†	628.2	651.4	0.5075 mg/L	0.5075 mg/L	12:01:05
2	V 292.402†	104554.0	109499.0	0.5041 mg/L	0.5041 mg/L	12:00:45
2	Zn 213.857†	40451.2	40968.9	0.4962 mg/L	0.4962 mg/L	12:00:45

Mean Data: STD2

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3009708.0	0.972	mg/L	0.0008				0.08%
Ag 328.068†	66899.8	0.2520	mg/L	0.00043	0.2520	mg/L	0.00043	0.17%
QC value within limits for Ag 328.068 Recovery = 100.81%								
Al 237.313†	20350.3	2.485	mg/L	0.0059	2.485	mg/L	0.0059	0.24%
QC value within limits for Al 237.313 Recovery = 99.42%								
As 188.979†	369.2	0.4989	mg/L	0.00546	0.4989	mg/L	0.00546	1.09%
QC value within limits for As 188.979 Recovery = 99.78%								
B 182.528†	249.8	0.5057	mg/L	0.00433	0.5057	mg/L	0.00433	0.86%
QC value within limits for B 182.528 Recovery = 101.14%								
Ba 233.527†	56220.4	0.5007	mg/L	0.00170	0.5007	mg/L	0.00170	0.34%

QC value within limits for Ba 233.527 Recovery = 100.14%

Be 313.107†	222200.1	0.0494 mg/L	0.00012	0.0494 mg/L	0.00012	0.24%
QC value within limits for Be 313.107 Recovery = 98.83%						
Ca 315.886†	763295.3	5.024 mg/L	0.0064	5.024 mg/L	0.0064	0.13%
QC value within limits for Ca 315.886 Recovery = 100.47%						
Cd 228.802†	10637.9	0.2508 mg/L	0.00034	0.2508 mg/L	0.00034	0.13%
QC value within limits for Cd 228.802 Recovery = 100.33%						
Co 228.616†	20029.0	0.4986 mg/L	0.00011	0.4986 mg/L	0.00011	0.02%
QC value within limits for Co 228.616 Recovery = 99.72%						
Cr 267.716†	73965.1	0.4997 mg/L	0.00187	0.4997 mg/L	0.00187	0.37%
QC value within limits for Cr 267.716 Recovery = 99.94%						
Cu 324.752†	121853.6	0.5036 mg/L	0.00065	0.5036 mg/L	0.00065	0.13%
QC value within limits for Cu 324.752 Recovery = 100.72%						
Fe 234.349†	129238.9	2.497 mg/L	0.0059	2.497 mg/L	0.0059	0.24%
QC value within limits for Fe 234.349 Recovery = 99.89%						
Fe 238.204†	291023.5	2.510 mg/L	0.0054	2.510 mg/L	0.0054	0.21%
QC value within limits for Fe 238.204 Recovery = 100.39%						
K 766.490†	46248.6	25.11 mg/L	0.075	25.11 mg/L	0.075	0.30%
QC value within limits for K 766.490 Recovery = 100.44%						
Li 670.784†	18254.7	0.5192 mg/L	0.00093	0.5192 mg/L	0.00093	0.18%
QC value within limits for Li 670.784 Recovery = 103.84%						
Mg 279.077†	122408.8	5.018 mg/L	0.0161	5.018 mg/L	0.0161	0.32%
QC value within limits for Mg 279.077 Recovery = 100.35%						
Mn 257.610†	448174.4	0.5038 mg/L	0.00030	0.5038 mg/L	0.00030	0.06%
QC value within limits for Mn 257.610 Recovery = 100.76%						
Mo 202.031†	7354.8	0.5022 mg/L	0.00121	0.5022 mg/L	0.00121	0.24%
QC value within limits for Mo 202.031 Recovery = 100.45%						
Na 589.592	208946.8	25.47 mg/L	0.183	25.47 mg/L	0.183	0.72%
QC value within limits for Na 589.592 Recovery = 101.88%						
Ni 231.604†	16365.8	0.5038 mg/L	0.00223	0.5038 mg/L	0.00223	0.44%
QC value within limits for Ni 231.604 Recovery = 100.75%						
P 214.914†	7094.3	4.980 mg/L	0.0021	4.980 mg/L	0.0021	0.04%
QC value within limits for P 214.914 Recovery = 99.61%						
Pb 220.353†	4359.1	0.5038 mg/L	0.00054	0.5038 mg/L	0.00054	0.11%
QC value within limits for Pb 220.353 Recovery = 100.76%						
Sb 206.836†	1052.5	0.4937 mg/L	0.00049	0.4937 mg/L	0.00049	0.10%
QC value within limits for Sb 206.836 Recovery = 98.75%						
Se 196.026†	870.2	1.011 mg/L	0.0073	1.011 mg/L	0.0073	0.72%
QC value within limits for Se 196.026 Recovery = 101.15%						
Sn 189.927†	1941.0	0.5034 mg/L	0.00151	0.5034 mg/L	0.00151	0.30%
QC value within limits for Sn 189.927 Recovery = 100.69%						
Sr 407.771†	1058569.2	0.0504 mg/L	0.00005	0.0504 mg/L	0.00005	0.10%
QC value within limits for Sr 407.771 Recovery = 100.85%						
Ti 337.279†	364508.6	0.4986 mg/L	0.00174	0.4986 mg/L	0.00174	0.35%
QC value within limits for Ti 337.279 Recovery = 99.72%						
Tl 190.801†	656.6	0.5116 mg/L	0.00576	0.5116 mg/L	0.00576	1.13%
QC value within limits for Tl 190.801 Recovery = 102.31%						
V 292.402†	109905.5	0.5059 mg/L	0.00259	0.5059 mg/L	0.00259	0.51%
QC value within limits for V 292.402 Recovery = 101.18%						
Zn 213.857†	41005.3	0.4967 mg/L	0.00062	0.4967 mg/L	0.00062	0.12%
QC value within limits for Zn 213.857 Recovery = 99.33%						

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/9/2006 12:02:43 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	44645.1	45560.9	24.74	mg/L	24.74	mg/L	12:04:18
1	Li 670.784†	17109.0	17537.0	0.4986	mg/L	0.4986	mg/L	12:04:18
1	Na 589.592	205716.6	203470.8	24.80	mg/L	24.80	mg/L	12:04:18
1	Y 371.029	2997900.1	2997900.1	0.969	mg/L			12:04:33
1	Ag 328.068†	63439.8	67500.1	0.2543	mg/L	0.2543	mg/L	12:04:38
1	Al 237.313†	19294.0	20133.8	2.459	mg/L	2.459	mg/L	12:04:38
1	As 188.979†	353.9	357.2	0.4825	mg/L	0.4825	mg/L	12:04:58
1	B 182.528†	231.8	245.2	0.4964	mg/L	0.4964	mg/L	12:04:58

1	Ba 233.527†	53418.3	55333.2	0.4928 mg/L	0.4928 mg/L	12:04:38
1	Be 313.107†	218014.8	225044.8	0.0501 mg/L	0.0501 mg/L	12:04:38
1	Ca 315.886†	744750.6	766744.0	5.046 mg/L	5.046 mg/L	12:04:33
1	Cd 228.802†	10524.5	10727.3	0.2530 mg/L	0.2530 mg/L	12:04:58
1	Co 228.616†	19028.3	19832.6	0.4938 mg/L	0.4938 mg/L	12:04:38
1	Cr 267.716†	73429.1	73914.5	0.4993 mg/L	0.4993 mg/L	12:04:38
1	Cu 324.752†	120927.3	122169.6	0.5049 mg/L	0.5049 mg/L	12:04:38
1	Fe 234.349†	127448.7	130278.3	2.517 mg/L	2.517 mg/L	12:04:38
1	Fe 238.204†	284630.1	293100.6	2.528 mg/L	2.528 mg/L	12:04:38
1	Mg 279.077†	117114.5	120271.0	4.930 mg/L	4.930 mg/L	12:04:38
1	Mn 257.610†	434612.1	447382.7	0.5029 mg/L	0.5029 mg/L	12:04:33
1	Mo 202.031†	7094.2	7312.2	0.4993 mg/L	0.4993 mg/L	12:04:58
1	Ni 231.604†	15907.5	16393.2	0.5046 mg/L	0.5046 mg/L	12:04:38
1	P 214.914†	6823.3	7000.1	4.914 mg/L	4.914 mg/L	12:04:58
1	Pb 220.353†	4038.6	4330.9	0.5005 mg/L	0.5005 mg/L	12:04:58
1	Sb 206.836†	1012.3	1037.9	0.4867 mg/L	0.4867 mg/L	12:04:58
1	Se 196.026†	831.1	869.3	1.010 mg/L	1.010 mg/L	12:04:58
1	Sn 189.927†	1992.1	1953.5	0.5067 mg/L	0.5067 mg/L	12:04:58
1	Sr 407.771†	1029271.2	1056735.1	0.0503 mg/L	0.0503 mg/L	12:04:33
1	Ti 337.279†	327419.3	340261.1	0.4654 mg/L	0.4654 mg/L	12:04:38
1	Tl 190.801†	629.2	654.6	0.5101 mg/L	0.5101 mg/L	12:04:58
1	V 292.402†	103479.1	108749.7	0.5006 mg/L	0.5006 mg/L	12:04:38
1	Zn 213.857†	40772.0	41439.5	0.5019 mg/L	0.5019 mg/L	12:04:38
2	K 766.490†	45167.8	46622.6	25.31 mg/L	25.31 mg/L	12:04:24
2	Li 670.784†	17430.7	18070.7	0.5139 mg/L	0.5139 mg/L	12:04:24
2	Na 589.592	205885.9	203640.1	24.82 mg/L	24.82 mg/L	12:04:24
2	Y 371.029	2964701.0	2964701.0	0.958 mg/L		12:05:05
2	Ag 328.068†	62401.0	67149.2	0.2530 mg/L	0.2530 mg/L	12:05:10
2	Al 237.313†	18923.0	19969.5	2.439 mg/L	2.439 mg/L	12:05:10
2	As 188.979†	356.0	363.4	0.4910 mg/L	0.4910 mg/L	12:05:31
2	B 182.528†	233.2	249.3	0.5047 mg/L	0.5047 mg/L	12:05:31
2	Ba 233.527†	52531.2	55024.7	0.4900 mg/L	0.4900 mg/L	12:05:10
2	Be 313.107†	213927.9	223298.8	0.0497 mg/L	0.0497 mg/L	12:05:10
2	Ca 315.886†	736099.4	766322.6	5.043 mg/L	5.043 mg/L	12:05:05
2	Cd 228.802†	10586.9	10914.2	0.2574 mg/L	0.2574 mg/L	12:05:31
2	Co 228.616†	18743.9	19755.8	0.4918 mg/L	0.4918 mg/L	12:05:10
2	Cr 267.716†	72165.5	73444.2	0.4961 mg/L	0.4961 mg/L	12:05:10
2	Cu 324.752†	118709.2	121252.0	0.5011 mg/L	0.5011 mg/L	12:05:10
2	Fe 234.349†	125671.0	129895.9	2.510 mg/L	2.510 mg/L	12:05:10
2	Fe 238.204†	279902.3	291455.7	2.513 mg/L	2.513 mg/L	12:05:10
2	Mg 279.077†	114745.9	119152.3	4.884 mg/L	4.884 mg/L	12:05:10
2	Mn 257.610†	429611.5	447186.8	0.5027 mg/L	0.5027 mg/L	12:05:05
2	Mo 202.031†	7151.3	7453.8	0.5090 mg/L	0.5090 mg/L	12:05:31
2	Ni 231.604†	15426.7	16075.1	0.4948 mg/L	0.4948 mg/L	12:05:10
2	P 214.914†	6846.2	7102.9	4.986 mg/L	4.986 mg/L	12:05:31
2	Pb 220.353†	4071.4	4411.8	0.5099 mg/L	0.5099 mg/L	12:05:31
2	Sb 206.836†	1023.1	1060.8	0.4978 mg/L	0.4978 mg/L	12:05:31
2	Se 196.026†	829.7	877.4	1.020 mg/L	1.020 mg/L	12:05:31
2	Sn 189.927†	2023.8	2009.6	0.5213 mg/L	0.5213 mg/L	12:05:31
2	Sr 407.771†	1018738.2	1057638.4	0.0504 mg/L	0.0504 mg/L	12:05:05
2	Ti 337.279†	321333.4	337693.1	0.4619 mg/L	0.4619 mg/L	12:05:10
2	Tl 190.801†	621.6	654.0	0.5096 mg/L	0.5096 mg/L	12:05:31
2	V 292.402†	101477.7	107856.7	0.4968 mg/L	0.4968 mg/L	12:05:10
2	Zn 213.857†	40043.0	41149.8	0.4984 mg/L	0.4984 mg/L	12:05:10

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2981300.5	0.963	mg/L	0.0076				0.79%
Ag 328.068†	67324.6	0.2536	mg/L	0.00093	0.2536	mg/L	0.00093	0.37%
QC value within limits for Ag 328.068 Recovery = 101.45%								
Al 237.313†	20051.6	2.449	mg/L	0.0142	2.449	mg/L	0.0142	0.58%
QC value within limits for Al 237.313 Recovery = 97.95%								
As 188.979†	360.3	0.4868	mg/L	0.00602	0.4868	mg/L	0.00602	1.24%
QC value within limits for As 188.979 Recovery = 97.35%								
B 182.528†	247.3	0.5006	mg/L	0.00590	0.5006	mg/L	0.00590	1.18%
QC value within limits for B 182.528 Recovery = 100.11%								
Ba 233.527†	55178.9	0.4914	mg/L	0.00194	0.4914	mg/L	0.00194	0.40%
QC value within limits for Ba 233.527 Recovery = 98.28%								
Be 313.107†	224171.8	0.0499	mg/L	0.00027	0.0499	mg/L	0.00027	0.55%
QC value within limits for Be 313.107 Recovery = 99.79%								

Ca 315.886†	766533.3	5.045 mg/L	0.0020	5.045 mg/L	0.0020	0.04%
QC value within limits for Ca 315.886 Recovery = 100.90%						
Cd 228.802†	10820.8	0.2552 mg/L	0.00309	0.2552 mg/L	0.00309	1.21%
QC value within limits for Cd 228.802 Recovery = 102.08%						
Co 228.616†	19794.2	0.4928 mg/L	0.00136	0.4928 mg/L	0.00136	0.27%
QC value within limits for Co 228.616 Recovery = 98.56%						
Cr 267.716†	73679.4	0.4977 mg/L	0.00226	0.4977 mg/L	0.00226	0.45%
QC value within limits for Cr 267.716 Recovery = 99.55%						
Cu 324.752†	121710.8	0.5030 mg/L	0.00269	0.5030 mg/L	0.00269	0.54%
QC value within limits for Cu 324.752 Recovery = 100.60%						
Fe 234.349†	130087.1	2.514 mg/L	0.0052	2.514 mg/L	0.0052	0.21%
QC value within limits for Fe 234.349 Recovery = 100.55%						
Fe 238.204†	292278.2	2.520 mg/L	0.0101	2.520 mg/L	0.0101	0.40%
QC value within limits for Fe 238.204 Recovery = 100.82%						
K 766.490†	46091.8	25.03 mg/L	0.408	25.03 mg/L	0.408	1.63%
QC value within limits for K 766.490 Recovery = 100.10%						
Li 670.784†	17803.8	0.5063 mg/L	0.01083	0.5063 mg/L	0.01083	2.14%
QC value within limits for Li 670.784 Recovery = 101.26%						
Mg 279.077†	119711.7	4.907 mg/L	0.0326	4.907 mg/L	0.0326	0.66%
QC value within limits for Mg 279.077 Recovery = 98.13%						
Mn 257.610†	447284.8	0.5028 mg/L	0.00016	0.5028 mg/L	0.00016	0.03%
QC value within limits for Mn 257.610 Recovery = 100.55%						
Mo 202.031†	7383.0	0.5042 mg/L	0.00686	0.5042 mg/L	0.00686	1.36%
QC value within limits for Mo 202.031 Recovery = 100.83%						
Na 589.592	203555.4	24.81 mg/L	0.015	24.81 mg/L	0.015	0.06%
QC value within limits for Na 589.592 Recovery = 99.22%						
Ni 231.604†	16234.2	0.4997 mg/L	0.00697	0.4997 mg/L	0.00697	1.39%
QC value within limits for Ni 231.604 Recovery = 99.94%						
P 214.914†	7051.5	4.950 mg/L	0.0510	4.950 mg/L	0.0510	1.03%
QC value within limits for P 214.914 Recovery = 99.01%						
Pb 220.353†	4371.3	0.5052 mg/L	0.00665	0.5052 mg/L	0.00665	1.32%
QC value within limits for Pb 220.353 Recovery = 101.04%						
Sb 206.836†	1049.4	0.4923 mg/L	0.00783	0.4923 mg/L	0.00783	1.59%
QC value within limits for Sb 206.836 Recovery = 98.45%						
Se 196.026†	873.3	1.015 mg/L	0.0067	1.015 mg/L	0.0067	0.66%
QC value within limits for Se 196.026 Recovery = 101.52%						
Sn 189.927†	1981.5	0.5140 mg/L	0.01031	0.5140 mg/L	0.01031	2.01%
QC value within limits for Sn 189.927 Recovery = 102.79%						
Sr 407.771†	1057186.7	0.0504 mg/L	0.00003	0.0504 mg/L	0.00003	0.06%
QC value within limits for Sr 407.771 Recovery = 100.71%						
Ti 337.279†	338977.1	0.4636 mg/L	0.00248	0.4636 mg/L	0.00248	0.54%
QC value within limits for Ti 337.279 Recovery = 92.73%						
Tl 190.801†	654.3	0.5098 mg/L	0.00033	0.5098 mg/L	0.00033	0.06%
QC value within limits for Tl 190.801 Recovery = 101.97%						
V 292.402†	108303.2	0.4987 mg/L	0.00275	0.4987 mg/L	0.00275	0.55%
QC value within limits for V 292.402 Recovery = 99.74%						
Zn 213.857†	41294.6	0.5002 mg/L	0.00246	0.5002 mg/L	0.00246	0.49%
QC value within limits for Zn 213.857 Recovery = 100.04%						

All analyte(s) passed QC.

Sequence No.: 7
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/9/2006 12:07:10 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490†	623.3	109.2	0.0616	mg/L	0.0616	mg/L	12:08:43
1	Li 670.784†	221.0	100.6	-0.0017	mg/L	-0.0017	mg/L	12:08:43
1	Na 589.592	2057.9	-187.9	-0.2807	mg/L	-0.2807	mg/L	12:08:43
1	Y 371.029	3022198.2	3022198.2	0.977	mg/L			12:08:56
1	Ag 328.068†	-1902.7	58.8	-0.0004	mg/L	-0.0004	mg/L	12:09:01
1	Al 237.313†	-175.8	35.4	0.0029	mg/L	0.0029	mg/L	12:09:22
1	As 188.979†	9.7	1.7	-0.0018	mg/L	-0.0018	mg/L	12:09:22
1	B 182.528†	-1.6	4.2	0.0054	mg/L	0.0054	mg/L	12:09:22
1	Ba 233.527†	-186.7	-5.1	-0.0017	mg/L	-0.0017	mg/L	12:09:22
1	Be 313.107†	-26.7	-52.7	-0.0001	mg/L	-0.0001	mg/L	12:09:01
1	Ca 315.886†	2229.6	174.9	-0.0128	mg/L	-0.0128	mg/L	12:09:01

1	Cd 228.802†	133.0	-1.5	-0.0011 mg/L	-0.0011 mg/L	12:09:22
1	Co 228.616†	-190.9	-7.0	-0.0024 mg/L	-0.0024 mg/L	12:09:22
1	Cr 267.716†	1833.3	-13.5	-0.0019 mg/L	-0.0019 mg/L	12:09:01
1	Cu 324.752†	2746.3	141.2	-0.0016 mg/L	-0.0016 mg/L	12:09:01
1	Fe 234.349†	1267.7	3.4	-0.0090 mg/L	-0.0090 mg/L	12:09:01
1	Fe 238.204†	793.4	71.8	-0.0118 mg/L	-0.0118 mg/L	12:09:22
1	Mg 279.077†	644.2	26.2	-0.0258 mg/L	-0.0258 mg/L	12:09:01
1	Mn 257.610†	1280.8	17.3	-0.0034 mg/L	-0.0034 mg/L	12:09:01
1	Mo 202.031†	42.9	32.4	0.0007 mg/L	0.0007 mg/L	12:09:22
1	Ni 231.604†	25.4	-3.2	-0.0043 mg/L	-0.0043 mg/L	12:09:22
1	P 214.914†	59.2	16.6	0.0111 mg/L	0.0111 mg/L	12:09:22
1	Pb 220.353†	-145.4	12.6	-0.0015 mg/L	-0.0015 mg/L	12:09:22
1	Sb 206.836†	6.8	-0.2	-0.0022 mg/L	-0.0022 mg/L	12:09:22
1	Se 196.026†	-5.0	6.1	-0.0033 mg/L	-0.0033 mg/L	12:09:22
1	Sn 189.927†	83.7	-17.4	-0.0065 mg/L	-0.0065 mg/L	12:09:22
1	Sr 407.771†	5794.8	88.7	-0.0003 mg/L	-0.0003 mg/L	12:08:56
1	Ti 337.279†	-2126.5	68.2	-0.0001 mg/L	-0.0001 mg/L	12:09:01
1	Tl 190.801†	-1.3	3.7	-0.0008 mg/L	-0.0008 mg/L	12:09:22
1	V 292.402†	-1857.5	19.6	-0.0004 mg/L	-0.0004 mg/L	12:09:01
1	Zn 213.857†	665.1	29.2	-0.0012 mg/L	-0.0012 mg/L	12:09:22
2	K 766.490†	591.8	79.0	0.0452 mg/L	0.0452 mg/L	12:08:48
2	Li 670.784†	226.5	107.0	-0.0015 mg/L	-0.0015 mg/L	12:08:48
2	Na 589.592	2030.0	-215.8	-0.2841 mg/L	-0.2841 mg/L	12:08:48
2	Y 371.029	3012070.1	3012070.1	0.973 mg/L		12:09:27
2	Ag 328.068†	-1945.9	7.9	-0.0006 mg/L	-0.0006 mg/L	12:09:33
2	Al 237.313†	-186.4	23.8	0.0014 mg/L	0.0014 mg/L	12:09:53
2	As 188.979†	4.1	-4.1	-0.0097 mg/L	-0.0097 mg/L	12:09:53
2	B 182.528†	-1.1	4.8	0.0065 mg/L	0.0065 mg/L	12:09:53
2	Ba 233.527†	-175.8	5.5	-0.0016 mg/L	-0.0016 mg/L	12:09:53
2	Be 313.107†	-40.1	-66.6	-0.0001 mg/L	-0.0001 mg/L	12:09:33
2	Ca 315.886†	2255.2	209.0	-0.0126 mg/L	-0.0126 mg/L	12:09:33
2	Cd 228.802†	113.7	-20.9	-0.0015 mg/L	-0.0015 mg/L	12:09:53
2	Co 228.616†	-194.8	-11.6	-0.0026 mg/L	-0.0026 mg/L	12:09:53
2	Cr 267.716†	1879.6	40.4	-0.0015 mg/L	-0.0015 mg/L	12:09:33
2	Cu 324.752†	2710.7	114.1	-0.0017 mg/L	-0.0017 mg/L	12:09:33
2	Fe 234.349†	1267.6	7.7	-0.0090 mg/L	-0.0090 mg/L	12:09:33
2	Fe 238.204†	792.7	73.8	-0.0118 mg/L	-0.0118 mg/L	12:09:53
2	Mg 279.077†	716.1	102.2	-0.0226 mg/L	-0.0226 mg/L	12:09:33
2	Mn 257.610†	1289.4	30.6	-0.0034 mg/L	-0.0034 mg/L	12:09:33
2	Mo 202.031†	29.7	19.0	-0.0002 mg/L	-0.0002 mg/L	12:09:53
2	Ni 231.604†	30.2	1.9	-0.0041 mg/L	-0.0041 mg/L	12:09:53
2	P 214.914†	60.9	18.7	0.0125 mg/L	0.0125 mg/L	12:09:53
2	Pb 220.353†	-136.6	21.2	-0.0006 mg/L	-0.0006 mg/L	12:09:53
2	Sb 206.836†	17.9	11.3	0.0033 mg/L	0.0033 mg/L	12:09:53
2	Se 196.026†	-6.1	5.0	-0.0046 mg/L	-0.0046 mg/L	12:09:53
2	Sn 189.927†	86.1	-14.7	-0.0058 mg/L	-0.0058 mg/L	12:09:53
2	Sr 407.771†	5693.3	4.4	-0.0003 mg/L	-0.0003 mg/L	12:09:27
2	Ti 337.279†	-2259.6	-75.9	-0.0003 mg/L	-0.0003 mg/L	12:09:33
2	Tl 190.801†	-3.1	1.8	-0.0023 mg/L	-0.0023 mg/L	12:09:53
2	V 292.402†	-1855.8	14.9	-0.0005 mg/L	-0.0005 mg/L	12:09:33
2	Zn 213.857†	673.2	39.7	-0.0010 mg/L	-0.0010 mg/L	12:09:53

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3017134.1	0.975	mg/L	0.0023				0.24%
Ag 328.068†	33.4	-0.0005	mg/L	0.00014	-0.0005	mg/L	0.00014	29.12%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	29.6	0.0022	mg/L	0.00100	0.0022	mg/L	0.00100	46.51%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	-1.2	-0.0058	mg/L	0.00559	-0.0058	mg/L	0.00559	96.88%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	4.5	0.0059	mg/L	0.00080	0.0059	mg/L	0.00080	13.45%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	0.2	-0.0017	mg/L	0.00007	-0.0017	mg/L	0.00007	3.93%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-59.7	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	3.04%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	192.0	-0.0127	mg/L	0.00016	-0.0127	mg/L	0.00016	1.26%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	-11.2	-0.0013	mg/L	0.00029	-0.0013	mg/L	0.00029	21.88%

QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-9.3	-0.0025 mg/L	0.00008	-0.0025 mg/L	0.00008	3.23%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated						
Cr 267.716†	13.5	-0.0017 mg/L	0.00026	-0.0017 mg/L	0.00026	14.97%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	127.6	-0.0017 mg/L	0.00008	-0.0017 mg/L	0.00008	4.75%
QC value within limits for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	5.5	-0.0090 mg/L	0.00006	-0.0090 mg/L	0.00006	0.64%
QC value within limits for Fe 234.349 Recovery = Not calculated						
Fe 238.204†	72.8	-0.0118 mg/L	0.00001	-0.0118 mg/L	0.00001	0.10%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	94.1	0.0534 mg/L	0.01160	0.0534 mg/L	0.01160	21.73%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	103.8	-0.0016 mg/L	0.00013	-0.0016 mg/L	0.00013	8.30%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	64.2	-0.0242 mg/L	0.00221	-0.0242 mg/L	0.00221	9.14%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	23.9	-0.0034 mg/L	0.00001	-0.0034 mg/L	0.00001	0.31%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	25.7	0.0003 mg/L	0.00065	0.0003 mg/L	0.00065	241.10%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	-201.9	-0.2824 mg/L	0.00244	-0.2824 mg/L	0.00244	0.86%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-0.6	-0.0042 mg/L	0.00011	-0.0042 mg/L	0.00011	2.63%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated						
P 214.914†	17.6	0.0118 mg/L	0.00101	0.0118 mg/L	0.00101	8.57%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	16.9	-0.0010 mg/L	0.00070	-0.0010 mg/L	0.00070	66.87%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	5.5	0.0006 mg/L	0.00389	0.0006 mg/L	0.00389	659.50%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	5.6	-0.0039 mg/L	0.00093	-0.0039 mg/L	0.00093	23.68%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-16.0	-0.0061 mg/L	0.00051	-0.0061 mg/L	0.00051	8.33%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	46.6	-0.0003 mg/L	0.00000	-0.0003 mg/L	0.00000	0.96%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	-3.8	-0.0002 mg/L	0.00014	-0.0002 mg/L	0.00014	72.49%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	2.8	-0.0015 mg/L	0.00106	-0.0015 mg/L	0.00106	70.57%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	17.3	-0.0005 mg/L	0.00003	-0.0005 mg/L	0.00003	5.61%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	34.4	-0.0011 mg/L	0.00009	-0.0011 mg/L	0.00009	8.12%
QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.						

Sequence No.: 8
Sample ID: CRI1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 6
Date Collected: 6/9/2006 12:11:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	5111.0	4657.1	2.531	mg/L	2.531	mg/L	12:13:05
1	Li 670.784†	1984.4	1887.9	0.0496	mg/L	0.0496	mg/L	12:13:05
1	Na 589.592	23145.1	20899.3	2.316	mg/L	2.316	mg/L	12:13:05
1	Y 371.029	3050066.3	3050066.3	0.986	mg/L			12:13:19
1	Ag 328.068†	4545.8	6619.9	0.0244	mg/L	0.0244	mg/L	12:13:24
1	Al 237.313†	1795.9	2037.7	0.2475	mg/L	0.2475	mg/L	12:13:24
1	As 188.979†	41.9	34.2	0.0425	mg/L	0.0425	mg/L	12:13:44
1	B 182.528†	23.3	29.6	0.0569	mg/L	0.0569	mg/L	12:13:44
1	Ba 233.527†	5390.9	5656.3	0.0489	mg/L	0.0489	mg/L	12:13:24
1	Be 313.107†	21977.1	22274.9	0.0049	mg/L	0.0049	mg/L	12:13:24
1	Ca 315.886†	79518.1	78579.1	0.5046	mg/L	0.5046	mg/L	12:13:24
1	Cd 228.802†	1175.8	1055.4	0.0239	mg/L	0.0239	mg/L	12:13:44
1	Co 228.616†	1840.7	2056.3	0.0492	mg/L	0.0492	mg/L	12:13:44
1	Cr 267.716†	9209.5	7454.0	0.0487	mg/L	0.0487	mg/L	12:13:24

1	Cu 324.752†	14872.8	12420.4	0.0493 mg/L	0.0493 mg/L	12:13:24
1	Fe 234.349†	14214.3	13128.5	0.2455 mg/L	0.2455 mg/L	12:13:24
1	Fe 238.204†	30122.4	29824.7	0.2460 mg/L	0.2460 mg/L	12:13:24
1	Mg 279.077†	12992.4	12549.9	0.4903 mg/L	0.4903 mg/L	12:13:24
1	Mn 257.610†	46937.2	46333.1	0.0490 mg/L	0.0490 mg/L	12:13:24
1	Mo 202.031†	750.5	750.0	0.0499 mg/L	0.0499 mg/L	12:13:44
1	Ni 231.604†	1659.5	1654.8	0.0472 mg/L	0.0472 mg/L	12:13:24
1	P 214.914†	736.8	703.7	0.4935 mg/L	0.4935 mg/L	12:13:44
1	Pb 220.353†	287.7	453.5	0.0497 mg/L	0.0497 mg/L	12:13:44
1	Sb 206.836†	114.1	108.7	0.0491 mg/L	0.0491 mg/L	12:13:44
1	Se 196.026†	76.4	88.8	0.0939 mg/L	0.0939 mg/L	12:13:44
1	Sn 189.927†	278.2	179.2	0.0447 mg/L	0.0447 mg/L	12:13:44
1	Sr 407.771†	112187.7	107992.0	0.0049 mg/L	0.0049 mg/L	12:13:19
1	Ti 337.279†	33647.1	36387.7	0.0496 mg/L	0.0496 mg/L	12:13:24
1	Tl 190.801†	54.5	60.3	0.0437 mg/L	0.0437 mg/L	12:13:44
1	V 292.402†	8943.4	10996.7	0.0501 mg/L	0.0501 mg/L	12:13:24
1	Zn 213.857†	4711.3	4128.6	0.0486 mg/L	0.0486 mg/L	12:13:44
2	K 766.490†	5188.8	4794.4	2.605 mg/L	2.605 mg/L	12:13:11
2	Li 670.784†	1965.7	1891.1	0.0497 mg/L	0.0497 mg/L	12:13:11
2	Na 589.592	23106.9	20861.1	2.311 mg/L	2.311 mg/L	12:13:11
2	Y 371.029	3016607.9	3016607.9	0.975 mg/L		12:13:50
2	Ag 328.068†	4472.1	6595.5	0.0243 mg/L	0.0243 mg/L	12:13:55
2	Al 237.313†	1802.1	2064.2	0.2508 mg/L	0.2508 mg/L	12:13:55
2	As 188.979†	45.7	38.7	0.0485 mg/L	0.0485 mg/L	12:14:16
2	B 182.528†	19.9	26.3	0.0504 mg/L	0.0504 mg/L	12:14:16
2	Ba 233.527†	5396.8	5723.0	0.0495 mg/L	0.0495 mg/L	12:13:55
2	Be 313.107†	21954.2	22498.7	0.0050 mg/L	0.0050 mg/L	12:13:55
2	Ca 315.886†	78911.6	78851.9	0.5064 mg/L	0.5064 mg/L	12:13:55
2	Cd 228.802†	1185.8	1078.8	0.0245 mg/L	0.0245 mg/L	12:14:16
2	Co 228.616†	1846.3	2082.8	0.0498 mg/L	0.0498 mg/L	12:14:16
2	Cr 267.716†	9197.9	7545.7	0.0493 mg/L	0.0493 mg/L	12:13:55
2	Cu 324.752†	14827.4	12541.2	0.0499 mg/L	0.0499 mg/L	12:13:55
2	Fe 234.349†	14130.8	13202.8	0.2469 mg/L	0.2469 mg/L	12:13:55
2	Fe 238.204†	29924.9	29961.1	0.2472 mg/L	0.2472 mg/L	12:13:55
2	Mg 279.077†	12924.7	12626.6	0.4935 mg/L	0.4935 mg/L	12:13:55
2	Mn 257.610†	46736.0	46655.0	0.0493 mg/L	0.0493 mg/L	12:13:55
2	Mo 202.031†	749.2	757.0	0.0504 mg/L	0.0504 mg/L	12:14:16
2	Ni 231.604†	1662.3	1676.3	0.0478 mg/L	0.0478 mg/L	12:13:55
2	P 214.914†	744.3	719.6	0.5047 mg/L	0.5047 mg/L	12:14:16
2	Pb 220.353†	298.6	467.9	0.0514 mg/L	0.0514 mg/L	12:14:16
2	Sb 206.836†	115.5	111.4	0.0504 mg/L	0.0504 mg/L	12:14:16
2	Se 196.026†	76.4	89.6	0.0948 mg/L	0.0948 mg/L	12:14:16
2	Sn 189.927†	277.5	181.6	0.0453 mg/L	0.0453 mg/L	12:14:16
2	Sr 407.771†	111056.3	108093.7	0.0049 mg/L	0.0049 mg/L	12:13:50
2	Ti 337.279†	33543.0	36659.6	0.0500 mg/L	0.0500 mg/L	12:13:55
2	Tl 190.801†	63.5	70.1	0.0514 mg/L	0.0514 mg/L	12:14:16
2	V 292.402†	8871.4	11023.5	0.0502 mg/L	0.0502 mg/L	12:13:55
2	Zn 213.857†	4760.3	4231.9	0.0499 mg/L	0.0499 mg/L	12:14:16

Mean Data: CRI1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3033337.1	0.980	mg/L	0.0076				0.78%
Ag 328.068†	6607.7	0.0244	mg/L	0.00006	0.0244	mg/L	0.00006	0.27%
QC value within limits for Ag 328.068 Recovery = 97.44%								
Al 237.313†	2051.0	0.2492	mg/L	0.00230	0.2492	mg/L	0.00230	0.92%
QC value within limits for Al 237.313 Recovery = 99.66%								
As 188.979†	36.5	0.0455	mg/L	0.00428	0.0455	mg/L	0.00428	9.41%
QC value within limits for As 188.979 Recovery = 91.03%								
B 182.528†	27.9	0.0537	mg/L	0.00465	0.0537	mg/L	0.00465	8.67%
QC value within limits for B 182.528 Recovery = 107.30%								
Ba 233.527†	5689.7	0.0492	mg/L	0.00042	0.0492	mg/L	0.00042	0.86%
QC value within limits for Ba 233.527 Recovery = 98.31%								
Be 313.107†	22386.8	0.0049	mg/L	0.00004	0.0049	mg/L	0.00004	0.72%
QC value within limits for Be 313.107 Recovery = 98.65%								
Ca 315.886†	78715.5	0.5055	mg/L	0.00127	0.5055	mg/L	0.00127	0.25%
QC value within limits for Ca 315.886 Recovery = 101.11%								
Cd 228.802†	1067.1	0.0242	mg/L	0.00037	0.0242	mg/L	0.00037	1.53%
QC value within limits for Cd 228.802 Recovery = 96.81%								
Co 228.616†	2069.6	0.0495	mg/L	0.00047	0.0495	mg/L	0.00047	0.95%
QC value within limits for Co 228.616 Recovery = 98.98%								

Cr 267.716†	7499.9	0.0490 mg/L	0.00044	0.0490 mg/L	0.00044	0.90%
QC value within limits for Cr 267.716 Recovery = 98.06%						
Cu 324.752†	12480.8	0.0496 mg/L	0.00035	0.0496 mg/L	0.00035	0.71%
QC value within limits for Cu 324.752 Recovery = 99.20%						
Fe 234.349†	13165.7	0.2462 mg/L	0.00102	0.2462 mg/L	0.00102	0.41%
QC value within limits for Fe 234.349 Recovery = 98.49%						
Fe 238.204†	29892.9	0.2466 mg/L	0.00084	0.2466 mg/L	0.00084	0.34%
QC value within limits for Fe 238.204 Recovery = 98.65%						
K 766.490†	4725.8	2.568 mg/L	0.0527	2.568 mg/L	0.0527	2.05%
QC value within limits for K 766.490 Recovery = 102.72%						
Li 670.784†	1889.5	0.0497 mg/L	0.00006	0.0497 mg/L	0.00006	0.13%
QC value within limits for Li 670.784 Recovery = 99.32%						
Mg 279.077†	12588.3	0.4919 mg/L	0.00224	0.4919 mg/L	0.00224	0.45%
QC value within limits for Mg 279.077 Recovery = 98.38%						
Mn 257.610†	46494.0	0.0492 mg/L	0.00026	0.0492 mg/L	0.00026	0.52%
QC value within limits for Mn 257.610 Recovery = 98.31%						
Mo 202.031†	753.5	0.0501 mg/L	0.00034	0.0501 mg/L	0.00034	0.68%
QC value within limits for Mo 202.031 Recovery = 100.23%						
Na 589.592	20880.2	2.313 mg/L	0.0033	2.313 mg/L	0.0033	0.14%
QC value within limits for Na 589.592 Recovery = 92.54%						
Ni 231.604†	1665.5	0.0475 mg/L	0.00047	0.0475 mg/L	0.00047	0.99%
QC value within limits for Ni 231.604 Recovery = 95.01%						
P 214.914†	711.7	0.4991 mg/L	0.00791	0.4991 mg/L	0.00791	1.58%
QC value within limits for P 214.914 Recovery = 99.82%						
Pb 220.353†	460.7	0.0505 mg/L	0.00118	0.0505 mg/L	0.00118	2.34%
QC value within limits for Pb 220.353 Recovery = 101.10%						
Sb 206.836†	110.0	0.0498 mg/L	0.00092	0.0498 mg/L	0.00092	1.86%
QC value within limits for Sb 206.836 Recovery = 99.58%						
Se 196.026†	89.2	0.0943 mg/L	0.00066	0.0943 mg/L	0.00066	0.70%
QC value within limits for Se 196.026 Recovery = 94.32%						
Sn 189.927†	180.4	0.0450 mg/L	0.00044	0.0450 mg/L	0.00044	0.98%
QC value within limits for Sn 189.927 Recovery = 90.03%						
Sr 407.771†	108042.8	0.0049 mg/L	0.00000	0.0049 mg/L	0.00000	0.07%
QC value within limits for Sr 407.771 Recovery = 97.54%						
Ti 337.279†	36523.6	0.0498 mg/L	0.00026	0.0498 mg/L	0.00026	0.53%
QC value within limits for Ti 337.279 Recovery = 99.58%						
Tl 190.801†	65.2	0.0475 mg/L	0.00543	0.0475 mg/L	0.00543	11.43%
QC value within limits for Tl 190.801 Recovery = 95.02%						
V 292.402†	11010.1	0.0502 mg/L	0.00009	0.0502 mg/L	0.00009	0.18%
QC value within limits for V 292.402 Recovery = 100.37%						
Zn 213.857†	4180.3	0.0493 mg/L	0.00089	0.0493 mg/L	0.00089	1.80%
QC value within limits for Zn 213.857 Recovery = 98.51%						

All analyte(s) passed QC.

Sequence No.: 9
Sample ID: CRI2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 6/9/2006 12:15:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	2453.0	1959.4	1.066	mg/L	1.066	mg/L	12:17:34
1	Li 670.784†	887.9	775.1	0.0177	mg/L	0.0177	mg/L	12:17:34
1	Na 589.592	9924.1	7678.3	0.6879	mg/L	0.6879	mg/L	12:17:34
1	Y 371.029	3050849.1	3050849.1	0.986	mg/L			12:17:48
1	Ag 328.068†	564.4	2579.8	0.0091	mg/L	0.0091	mg/L	12:17:53
1	Al 237.313†	643.9	868.5	0.1047	mg/L	0.1047	mg/L	12:18:13
1	As 188.979†	24.4	16.5	0.0183	mg/L	0.0183	mg/L	12:18:13
1	B 182.528†	5.8	11.8	0.0208	mg/L	0.0208	mg/L	12:18:13
1	Ba 233.527†	2045.1	2260.8	0.0185	mg/L	0.0185	mg/L	12:18:13
1	Be 313.107†	8546.0	8644.1	0.0019	mg/L	0.0019	mg/L	12:17:53
1	Ca 315.886†	32232.6	30589.9	0.1879	mg/L	0.1879	mg/L	12:17:53
1	Cd 228.802†	560.7	431.1	0.0091	mg/L	0.0091	mg/L	12:18:13
1	Co 228.616†	630.8	828.4	0.0184	mg/L	0.0184	mg/L	12:18:13
1	Cr 267.716†	4773.2	2951.2	0.0182	mg/L	0.0182	mg/L	12:17:53
1	Cu 324.752†	7268.9	4702.7	0.0173	mg/L	0.0173	mg/L	12:17:53
1	Fe 234.349†	6457.4	5255.8	0.0928	mg/L	0.0928	mg/L	12:17:53
1	Fe 238.204†	12379.1	11817.2	0.0900	mg/L	0.0900	mg/L	12:17:53

1	Mg 279.077†	5466.0	4911.4	0.1755 mg/L	0.1755 mg/L	12:17:53
1	Mn 257.610†	19134.9	18117.0	0.0170 mg/L	0.0170 mg/L	12:17:53
1	Mo 202.031†	314.9	307.9	0.0196 mg/L	0.0196 mg/L	12:18:13
1	Ni 231.604†	679.0	659.6	0.0163 mg/L	0.0163 mg/L	12:18:13
1	P 214.914†	315.6	276.2	0.1933 mg/L	0.1933 mg/L	12:18:13
1	Pb 220.353†	12.2	173.9	0.0172 mg/L	0.0172 mg/L	12:18:13
1	Sb 206.836†	49.4	43.0	0.0182 mg/L	0.0182 mg/L	12:18:13
1	Se 196.026†	24.7	36.3	0.0322 mg/L	0.0322 mg/L	12:18:13
1	Sn 189.927†	162.0	61.2	0.0140 mg/L	0.0140 mg/L	12:18:13
1	Sr 407.771†	48386.1	43239.5	0.0018 mg/L	0.0018 mg/L	12:17:48
1	Ti 337.279†	11813.5	14229.9	0.0193 mg/L	0.0193 mg/L	12:17:53
1	Tl 190.801†	27.9	33.3	0.0225 mg/L	0.0225 mg/L	12:18:13
1	V 292.402†	2365.8	4321.7	0.0194 mg/L	0.0194 mg/L	12:17:53
1	Zn 213.857†	2269.9	1650.7	0.0185 mg/L	0.0185 mg/L	12:18:13
2	K 766.490†	2348.2	1865.8	1.015 mg/L	1.015 mg/L	12:17:40
2	Li 670.784†	920.4	813.0	0.0188 mg/L	0.0188 mg/L	12:17:40
2	Na 589.592	9943.4	7697.6	0.6903 mg/L	0.6903 mg/L	12:17:40
2	Y 371.029	3034567.2	3034567.2	0.980 mg/L		12:18:19
2	Ag 328.068†	571.0	2589.6	0.0092 mg/L	0.0092 mg/L	12:18:24
2	Al 237.313†	633.6	861.6	0.1038 mg/L	0.1038 mg/L	12:18:45
2	As 188.979†	20.7	12.8	0.0133 mg/L	0.0133 mg/L	12:18:45
2	B 182.528†	4.8	10.8	0.0187 mg/L	0.0187 mg/L	12:18:45
2	Ba 233.527†	2054.2	2281.1	0.0187 mg/L	0.0187 mg/L	12:18:45
2	Be 313.107†	8644.7	8791.2	0.0019 mg/L	0.0019 mg/L	12:18:24
2	Ca 315.886†	32510.2	31048.5	0.1910 mg/L	0.1910 mg/L	12:18:24
2	Cd 228.802†	539.4	412.4	0.0087 mg/L	0.0087 mg/L	12:18:45
2	Co 228.616†	607.3	807.9	0.0179 mg/L	0.0179 mg/L	12:18:45
2	Cr 267.716†	4816.0	3020.9	0.0187 mg/L	0.0187 mg/L	12:18:24
2	Cu 324.752†	7437.4	4914.2	0.0182 mg/L	0.0182 mg/L	12:18:24
2	Fe 234.349†	6469.9	5303.7	0.0938 mg/L	0.0938 mg/L	12:18:24
2	Fe 238.204†	12556.2	12065.3	0.0921 mg/L	0.0921 mg/L	12:18:24
2	Mg 279.077†	5568.0	5045.2	0.1811 mg/L	0.1811 mg/L	12:18:24
2	Mn 257.610†	19408.8	18500.5	0.0175 mg/L	0.0175 mg/L	12:18:24
2	Mo 202.031†	317.9	312.7	0.0199 mg/L	0.0199 mg/L	12:18:45
2	Ni 231.604†	676.9	661.2	0.0163 mg/L	0.0163 mg/L	12:18:45
2	P 214.914†	324.0	286.5	0.2006 mg/L	0.2006 mg/L	12:18:45
2	Pb 220.353†	35.3	197.6	0.0200 mg/L	0.0200 mg/L	12:18:45
2	Sb 206.836†	49.1	43.0	0.0182 mg/L	0.0182 mg/L	12:18:45
2	Se 196.026†	27.2	38.9	0.0353 mg/L	0.0353 mg/L	12:18:45
2	Sn 189.927†	154.2	54.2	0.0121 mg/L	0.0121 mg/L	12:18:45
2	Sr 407.771†	48150.0	43262.1	0.0018 mg/L	0.0018 mg/L	12:18:19
2	Ti 337.279†	11926.3	14409.3	0.0195 mg/L	0.0195 mg/L	12:18:24
2	Tl 190.801†	20.5	25.9	0.0167 mg/L	0.0167 mg/L	12:18:45
2	V 292.402†	2366.2	4335.1	0.0194 mg/L	0.0194 mg/L	12:18:24
2	Zn 213.857†	2281.8	1675.2	0.0188 mg/L	0.0188 mg/L	12:18:45

Mean Data: CRI2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3042708.2	0.983	mg/L	0.0037				0.38%
Ag 328.068†	2584.7	0.0092	mg/L	0.00003	0.0092	mg/L	0.00003	0.29%
QC value within limits for Ag 328.068 Recovery = 91.68%								
Al 237.313†	865.0	0.1043	mg/L	0.00061	0.1043	mg/L	0.00061	0.58%
QC value within limits for Al 237.313 Recovery = 104.26%								
As 188.979†	14.7	0.0158	mg/L	0.00350	0.0158	mg/L	0.00350	22.15%
QC value within limits for As 188.979 Recovery = 78.94%								
B 182.528†	11.3	0.0197	mg/L	0.00153	0.0197	mg/L	0.00153	7.73%
QC value within limits for B 182.528 Recovery = 98.65%								
Ba 233.527†	2271.0	0.0186	mg/L	0.00013	0.0186	mg/L	0.00013	0.69%
QC value within limits for Ba 233.527 Recovery = 93.03%								
Be 313.107†	8717.7	0.0019	mg/L	0.00002	0.0019	mg/L	0.00002	1.23%
QC value within limits for Be 313.107 Recovery = 94.44%								
Ca 315.886†	30819.2	0.1894	mg/L	0.00214	0.1894	mg/L	0.00214	1.13%
QC value within limits for Ca 315.886 Recovery = 94.72%								
Cd 228.802†	421.7	0.0089	mg/L	0.00030	0.0089	mg/L	0.00030	3.31%
QC value within limits for Cd 228.802 Recovery = 89.10%								
Co 228.616†	818.2	0.0182	mg/L	0.00036	0.0182	mg/L	0.00036	2.00%
QC value within limits for Co 228.616 Recovery = 90.96%								
Cr 267.716†	2986.0	0.0184	mg/L	0.00033	0.0184	mg/L	0.00033	1.81%
QC value within limits for Cr 267.716 Recovery = 92.14%								
Cu 324.752†	4808.5	0.0178	mg/L	0.00062	0.0178	mg/L	0.00062	3.49%

QC value within limits for Cu 324.752 Recovery = 88.78%						
Fe 234.349†	5279.8	0.0933 mg/L	0.00066	0.0933 mg/L	0.00066	0.71%
QC value within limits for Fe 234.349 Recovery = 93.29%						
Fe 238.204†	11941.2	0.0911 mg/L	0.00152	0.0911 mg/L	0.00152	1.67%
QC value within limits for Fe 238.204 Recovery = 91.06%						
K 766.490†	1912.6	1.041 mg/L	0.0359	1.041 mg/L	0.0359	3.45%
QC value within limits for K 766.490 Recovery = 104.07%						
Li 670.784†	794.0	0.0182 mg/L	0.00077	0.0182 mg/L	0.00077	4.23%
QC value within limits for Li 670.784 Recovery = 91.15%						
Mg 279.077†	4978.3	0.1783 mg/L	0.00390	0.1783 mg/L	0.00390	2.19%
QC value within limits for Mg 279.077 Recovery = 89.15%						
Mn 257.610†	18308.7	0.0173 mg/L	0.00031	0.0173 mg/L	0.00031	1.78%
QC value within limits for Mn 257.610 Recovery = 86.29%						
Mo 202.031†	310.3	0.0198 mg/L	0.00024	0.0198 mg/L	0.00024	1.19%
QC value within limits for Mo 202.031 Recovery = 98.80%						
Na 589.592	7687.9	0.6891 mg/L	0.00168	0.6891 mg/L	0.00168	0.24%
QC value less than the lower limit for Na 589.592 Recovery = 68.91%						
Ni 231.604†	660.4	0.0163 mg/L	0.00003	0.0163 mg/L	0.00003	0.21%
QC value within limits for Ni 231.604 Recovery = 81.54%						
P 214.914†	281.3	0.1970 mg/L	0.00514	0.1970 mg/L	0.00514	2.61%
QC value within limits for P 214.914 Recovery = 98.48%						
Pb 220.353†	185.8	0.0186 mg/L	0.00194	0.0186 mg/L	0.00194	10.45%
QC value within limits for Pb 220.353 Recovery = 92.94%						
Sb 206.836†	43.0	0.0182 mg/L	0.00001	0.0182 mg/L	0.00001	0.07%
QC value within limits for Sb 206.836 Recovery = 90.85%						
Se 196.026†	37.6	0.0338 mg/L	0.00216	0.0338 mg/L	0.00216	6.40%
QC value within limits for Se 196.026 Recovery = 84.39%						
Sn 189.927†	57.7	0.0131 mg/L	0.00129	0.0131 mg/L	0.00129	9.88%
QC value less than the lower limit for Sn 189.927 Recovery = 65.30%						
Sr 407.771†	43250.8	0.0018 mg/L	0.00000	0.0018 mg/L	0.00000	0.04%
QC value within limits for Sr 407.771 Recovery = 88.61%						
Ti 337.279†	14319.6	0.0194 mg/L	0.00017	0.0194 mg/L	0.00017	0.89%
QC value within limits for Ti 337.279 Recovery = 97.03%						
Tl 190.801†	29.6	0.0196 mg/L	0.00410	0.0196 mg/L	0.00410	20.99%
QC value within limits for Tl 190.801 Recovery = 97.78%						
V 292.402†	4328.4	0.0194 mg/L	0.00005	0.0194 mg/L	0.00005	0.24%
QC value within limits for V 292.402 Recovery = 96.98%						
Zn 213.857†	1662.9	0.0187 mg/L	0.00021	0.0187 mg/L	0.00021	1.13%
QC value within limits for Zn 213.857 Recovery = 93.37%						

QC Failed. Continue with analysis.

Sequence No.: 10
Sample ID: CRI3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 8
Date Collected: 6/9/2006 12:20:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI3

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1488.9	984.4	0.5368	mg/L	0.5368	mg/L	12:22:01
1	Li 670.784†	532.8	415.9	0.0074	mg/L	0.0074	mg/L	12:22:01
1	Na 589.592	5487.8	3242.0	0.1417	mg/L	0.1417	mg/L	12:22:01
1	Y 371.029	3044635.4	3044635.4	0.984	mg/L			12:22:14
1	Ag 328.068†	-916.1	1076.0	0.0035	mg/L	0.0035	mg/L	12:22:20
1	Al 237.313†	208.1	426.9	0.0507	mg/L	0.0507	mg/L	12:22:40
1	As 188.979†	14.2	6.2	0.0043	mg/L	0.0043	mg/L	12:22:40
1	B 182.528†	0.9	6.8	0.0105	mg/L	0.0105	mg/L	12:22:40
1	Ba 233.527†	944.0	1145.7	0.0086	mg/L	0.0086	mg/L	12:22:40
1	Be 313.107†	4286.0	4331.4	0.0009	mg/L	0.0009	mg/L	12:22:20
1	Ca 315.886†	17191.6	15367.2	0.0875	mg/L	0.0875	mg/L	12:22:20
1	Cd 228.802†	337.8	205.7	0.0038	mg/L	0.0038	mg/L	12:22:40
1	Co 228.616†	211.2	403.3	0.0078	mg/L	0.0078	mg/L	12:22:40
1	Cr 267.716†	3227.4	1389.8	0.0076	mg/L	0.0076	mg/L	12:22:20
1	Cu 324.752†	4930.1	2340.3	0.0075	mg/L	0.0075	mg/L	12:22:20
1	Fe 234.349†	3785.2	2552.8	0.0404	mg/L	0.0404	mg/L	12:22:20
1	Fe 238.204†	6466.7	5832.8	0.0381	mg/L	0.0381	mg/L	12:22:20
1	Mg 279.077†	3028.6	2445.0	0.0739	mg/L	0.0739	mg/L	12:22:20
1	Mn 257.610†	10272.9	9148.3	0.0069	mg/L	0.0069	mg/L	12:22:20
1	Mo 202.031†	166.6	157.8	0.0093	mg/L	0.0093	mg/L	12:22:40

1	Ni 231.604†	340.8	317.3	0.0057 mg/L	0.0057 mg/L	12:22:40
1	P 214.914†	190.1	149.2	0.1042 mg/L	0.1042 mg/L	12:22:40
1	Pb 220.353†	-62.7	97.8	0.0084 mg/L	0.0084 mg/L	12:22:40
1	Sb 206.836†	38.2	31.6	0.0130 mg/L	0.0130 mg/L	12:22:40
1	Se 196.026†	9.9	21.3	0.0145 mg/L	0.0145 mg/L	12:22:40
1	Sn 189.927†	113.5	12.2	0.0012 mg/L	0.0012 mg/L	12:22:40
1	Sr 407.771†	26860.5	21458.6	0.0007 mg/L	0.0007 mg/L	12:22:14
1	Ti 337.279†	4808.4	7133.6	0.0096 mg/L	0.0096 mg/L	12:22:20
1	Tl 190.801†	5.1	10.2	0.0044 mg/L	0.0044 mg/L	12:22:40
1	V 292.402†	232.1	2157.7	0.0094 mg/L	0.0094 mg/L	12:22:20
1	Zn 213.857†	1461.5	833.7	0.0086 mg/L	0.0086 mg/L	12:22:40
2	K 766.490†	1329.9	820.7	0.4479 mg/L	0.4479 mg/L	12:22:06
2	Li 670.784†	528.3	410.5	0.0072 mg/L	0.0072 mg/L	12:22:06
2	Na 589.592	5539.7	3293.8	0.1480 mg/L	0.1480 mg/L	12:22:06
2	Y 371.029	3049196.7	3049196.7	0.985 mg/L		12:22:46
2	Ag 328.068†	-664.3	1333.0	0.0044 mg/L	0.0044 mg/L	12:22:51
2	Al 237.313†	225.8	444.6	0.0529 mg/L	0.0529 mg/L	12:23:11
2	As 188.979†	12.5	4.4	0.0018 mg/L	0.0018 mg/L	12:23:11
2	B 182.528†	0.8	6.7	0.0104 mg/L	0.0104 mg/L	12:23:11
2	Ba 233.527†	917.3	1117.2	0.0083 mg/L	0.0083 mg/L	12:23:11
2	Be 313.107†	4305.2	4344.4	0.0009 mg/L	0.0009 mg/L	12:22:51
2	Ca 315.886†	17238.2	15388.4	0.0876 mg/L	0.0876 mg/L	12:22:51
2	Cd 228.802†	326.7	193.9	0.0035 mg/L	0.0035 mg/L	12:23:11
2	Co 228.616†	197.8	389.3	0.0075 mg/L	0.0075 mg/L	12:23:11
2	Cr 267.716†	3355.4	1514.8	0.0085 mg/L	0.0085 mg/L	12:22:51
2	Cu 324.752†	4937.6	2340.5	0.0075 mg/L	0.0075 mg/L	12:22:51
2	Fe 234.349†	3747.9	2509.3	0.0396 mg/L	0.0396 mg/L	12:22:51
2	Fe 238.204†	6493.9	5850.6	0.0383 mg/L	0.0383 mg/L	12:22:51
2	Mg 279.077†	3026.7	2438.5	0.0736 mg/L	0.0736 mg/L	12:22:51
2	Mn 257.610†	10267.3	9126.9	0.0069 mg/L	0.0069 mg/L	12:22:51
2	Mo 202.031†	180.1	171.2	0.0102 mg/L	0.0102 mg/L	12:23:11
2	Ni 231.604†	336.4	312.3	0.0055 mg/L	0.0055 mg/L	12:23:11
2	P 214.914†	194.9	153.9	0.1075 mg/L	0.1075 mg/L	12:23:11
2	Pb 220.353†	-46.6	114.3	0.0103 mg/L	0.0103 mg/L	12:23:11
2	Sb 206.836†	31.9	25.2	0.0098 mg/L	0.0098 mg/L	12:23:11
2	Se 196.026†	8.9	20.3	0.0134 mg/L	0.0134 mg/L	12:23:11
2	Sn 189.927†	102.6	1.0	-0.0017 mg/L	-0.0017 mg/L	12:23:11
2	Sr 407.771†	26970.2	21529.0	0.0007 mg/L	0.0007 mg/L	12:22:46
2	Ti 337.279†	4856.3	7175.0	0.0096 mg/L	0.0096 mg/L	12:22:51
2	Tl 190.801†	16.4	21.6	0.0133 mg/L	0.0133 mg/L	12:23:11
2	V 292.402†	304.9	2231.3	0.0097 mg/L	0.0097 mg/L	12:22:51
2	Zn 213.857†	1439.7	809.3	0.0083 mg/L	0.0083 mg/L	12:23:11

Mean Data: CRI3

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3046916.0	0.984	mg/L	0.0010				0.11%
Ag 328.068†	1204.5	0.0040	mg/L	0.00069	0.0040	mg/L	0.00069	17.32%
QC value within limits for Ag 328.068 Recovery = 79.13%								
Al 237.313†	435.7	0.0518	mg/L	0.00154	0.0518	mg/L	0.00154	2.98%
QC value within limits for Al 237.313 Recovery = 103.59%								
As 188.979†	5.3	0.0030	mg/L	0.00174	0.0030	mg/L	0.00174	57.00%
QC value less than the lower limit for As 188.979 Recovery = 30.46%								
B 182.528†	6.8	0.0105	mg/L	0.00007	0.0105	mg/L	0.00007	0.68%
QC value within limits for B 182.528 Recovery = 104.74%								
Ba 233.527†	1131.5	0.0084	mg/L	0.00018	0.0084	mg/L	0.00018	2.14%
QC value within limits for Ba 233.527 Recovery = 84.23%								
Be 313.107†	4337.9	0.0009	mg/L	0.00000	0.0009	mg/L	0.00000	0.24%
QC value within limits for Be 313.107 Recovery = 91.36%								
Ca 315.886†	15377.8	0.0875	mg/L	0.00010	0.0875	mg/L	0.00010	0.11%
QC value within limits for Ca 315.886 Recovery = 87.54%								
Cd 228.802†	199.8	0.0037	mg/L	0.00019	0.0037	mg/L	0.00019	5.16%
QC value within limits for Cd 228.802 Recovery = 73.34%								
Co 228.616†	396.3	0.0076	mg/L	0.00025	0.0076	mg/L	0.00025	3.23%
QC value within limits for Co 228.616 Recovery = 76.40%								
Cr 267.716†	1452.3	0.0080	mg/L	0.00060	0.0080	mg/L	0.00060	7.47%
QC value within limits for Cr 267.716 Recovery = 80.28%								
Cu 324.752†	2340.4	0.0075	mg/L	0.00000	0.0075	mg/L	0.00000	0.00%
QC value within limits for Cu 324.752 Recovery = 75.10%								
Fe 234.349†	2531.1	0.0400	mg/L	0.00060	0.0400	mg/L	0.00060	1.49%
QC value within limits for Fe 234.349 Recovery = 79.95%								

Fe 238.204†	5841.7	0.0382 mg/L	0.00011	0.0382 mg/L	0.00011	0.29%
QC value within limits for Fe 238.204 Recovery = 76.39%						
K 766.490†	902.6	0.4923 mg/L	0.06284	0.4923 mg/L	0.06284	12.76%
QC value within limits for K 766.490 Recovery = 98.47%						
Li 670.784†	413.2	0.0073 mg/L	0.00011	0.0073 mg/L	0.00011	1.50%
QC value within limits for Li 670.784 Recovery = 73.04%						
Mg 279.077†	2441.8	0.0738 mg/L	0.00019	0.0738 mg/L	0.00019	0.26%
QC value within limits for Mg 279.077 Recovery = 73.78%						
Mn 257.610†	9137.6	0.0069 mg/L	0.00002	0.0069 mg/L	0.00002	0.25%
QC value less than the lower limit for Mn 257.610 Recovery = 68.78%						
Mo 202.031†	164.5	0.0098 mg/L	0.00065	0.0098 mg/L	0.00065	6.65%
QC value within limits for Mo 202.031 Recovery = 97.77%						
Na 589.592	3267.9	0.1448 mg/L	0.00452	0.1448 mg/L	0.00452	3.12%
QC value less than the lower limit for Na 589.592 Recovery = 28.97%						
Ni 231.604†	314.8	0.0056 mg/L	0.00011	0.0056 mg/L	0.00011	1.95%
QC value less than the lower limit for Ni 231.604 Recovery = 55.81%						
P 214.914†	151.6	0.1058 mg/L	0.00231	0.1058 mg/L	0.00231	2.18%
QC value within limits for P 214.914 Recovery = 105.83%						
Pb 220.353†	106.0	0.0093 mg/L	0.00135	0.0093 mg/L	0.00135	14.50%
QC value within limits for Pb 220.353 Recovery = 93.17%						
Sb 206.836†	28.4	0.0114 mg/L	0.00219	0.0114 mg/L	0.00219	19.25%
QC value within limits for Sb 206.836 Recovery = 113.99%						
Se 196.026†	20.8	0.0140 mg/L	0.00080	0.0140 mg/L	0.00080	5.73%
QC value less than the lower limit for Se 196.026 Recovery = 69.84%						
Sn 189.927†	6.6	-0.0002 mg/L	0.00207	-0.0002 mg/L	0.00207	881.56%
QC value less than the lower limit for Sn 189.927 Recovery = -2.35%						
Sr 407.771†	21493.8	0.0007 mg/L	0.00000	0.0007 mg/L	0.00000	0.33%
QC value within limits for Sr 407.771 Recovery = 72.96%						
Ti 337.279†	7154.3	0.0096 mg/L	0.00004	0.0096 mg/L	0.00004	0.42%
QC value within limits for Ti 337.279 Recovery = 96.02%						
Tl 190.801†	15.9	0.0088 mg/L	0.00630	0.0088 mg/L	0.00630	71.55%
QC value within limits for Tl 190.801 Recovery = 88.05%						
V 292.402†	2194.5	0.0096 mg/L	0.00025	0.0096 mg/L	0.00025	2.58%
QC value within limits for V 292.402 Recovery = 95.61%						
Zn 213.857†	821.5	0.0085 mg/L	0.00021	0.0085 mg/L	0.00021	2.47%
QC value within limits for Zn 213.857 Recovery = 84.54%						

QC Failed. Continue with analysis.

==========

Sequence No.: 11 **Autosampler Location: 160**
Sample ID: ICSA **Date Collected: 6/9/2006 12:24:52 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
User canceled analysis.

==========

Analysis Begun

Start Time: 6/9/2006 12:28:00 PM **Plasma On Time: 6/9/2006 10:39:41 AM**
Logged In Analyst: ICP3 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N1032302Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\060906na.sif
Batch ID: 060906na
Results Data Set: 060906nad
Results Library: Q:\Metals\Results\ICP3\Results\Results.mdb

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Sequence No.: 1 **Autosampler Location: 1**
Sample ID: Calib Blank 1 **Date Collected: 6/9/2006 12:28:01 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**
User canceled analysis.

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Analysis Begun

Start Time: 6/9/2006 12:28:20 PM **Plasma On Time: 6/9/2006 10:39:41 AM**
Logged In Analyst: ICP3 **Technique: ICP Continuous**
Spectrometer Model: Optima 4300 DV, S/N 077N1032302Autosampler Model: AS-91

Unable to evaluate QC.
No analytes were evaluated. Analysis will continue.
User canceled analysis.

Analysis Begun

Start Time: 6/9/2006 12:33:01 PM
Logged In Analyst: ICP3
Spectrometer Model: Optima 4300 DV, S/N 077N1032302
Plasma On Time: 6/9/2006 10:39:41 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\060906na.sif
Batch ID: 060906na
Results Data Set: 060906nad
Results Library: Q:\Metals\Results\ICP3\Results\Results.mdb

Sequence No.: 11
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 160
Date Collected: 6/9/2006 12:33:01 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	604.2	136.7	0.0766	mg/L	0.0766	mg/L	12:34:36
1	Li 670.784†	169.6	61.2	-0.0028	mg/L	-0.0028	mg/L	12:34:36
1	Na 589.592	2414.9	169.1	-0.2367	mg/L	-0.2367	mg/L	12:34:36
1	Y 371.029	2808675.2	2808675.2	0.908	mg/L			12:35:03
1	Ag 328.068†	-2610.5	-869.3	-0.0002	mg/L	-0.0002	mg/L	12:35:08
1	Al 237.313†	1885231.7	2077578.6	254.4	mg/L	254.4	mg/L	12:35:03
1	As 188.979†	4.1	-3.8	-0.0094	mg/L	-0.0094	mg/L	12:35:29
1	B 182.528†	7.5	14.2	0.0256	mg/L	0.0256	mg/L	12:35:29
1	Ba 233.527†	38.4	228.4	0.0004	mg/L	0.0004	mg/L	12:35:29
1	Be 313.107†	-2335.3	-2598.7	-0.0001	mg/L	-0.0001	mg/L	12:35:08
1	Ca 315.886†	33537514.1	36953348.5	243.7	mg/L	243.7	mg/L	12:34:56
1	Cd 228.802†	99.6	-28.0	-0.0011	mg/L	-0.0011	mg/L	12:35:29
1	Co 228.616†	-167.9	3.6	-0.0022	mg/L	-0.0022	mg/L	12:35:29
1	Cr 267.716†	1148.6	-625.3	-0.0005	mg/L	-0.0005	mg/L	12:35:08
1	Cu 324.752†	642.3	-1963.4	0.0063	mg/L	0.0063	mg/L	12:35:08
1	Fe 234.349†	4306433.3	4744024.3	92.20	mg/L	92.20	mg/L	12:35:03
1	Fe 238.204†	9108830.6	10036407.5	86.94	mg/L	86.94	mg/L	12:34:56
1	Mg 279.077†	5222108.1	5753680.5	236.9	mg/L	236.9	mg/L	12:35:03
1	Mn 257.610†	5899.6	5206.5	0.0024	mg/L	0.0024	mg/L	12:35:08
1	Mo 202.031†	216.0	226.5	0.0140	mg/L	0.0140	mg/L	12:35:29
1	Ni 231.604†	61.0	38.1	-0.0030	mg/L	-0.0030	mg/L	12:35:29
1	P 214.914†	-53.9	-103.3	-0.0731	mg/L	-0.0731	mg/L	12:35:29
1	Pb 220.353†	-544.7	-438.7	-0.0075	mg/L	-0.0075	mg/L	12:35:29
1	Sb 206.836†	-1.8	-9.1	-0.0064	mg/L	-0.0064	mg/L	12:35:29
1	Se 196.026†	7.3	19.3	0.0122	mg/L	0.0122	mg/L	12:35:29
1	Sn 189.927†	-31.1	-137.4	-0.0340	mg/L	-0.0340	mg/L	12:35:29
1	Sr 407.771†	21286.3	17610.2	0.0005	mg/L	0.0005	mg/L	12:35:08
1	Ti 337.279†	1673.8	4090.2	0.0054	mg/L	0.0054	mg/L	12:35:08
1	Tl 190.801†	57.0	67.8	0.0493	mg/L	0.0493	mg/L	12:35:29
1	V 292.402†	944.3	2962.3	0.0012	mg/L	0.0012	mg/L	12:35:08
1	Zn 213.857†	2442.3	2039.2	0.0151	mg/L	0.0151	mg/L	12:35:29
2	K 766.490†	635.1	169.7	0.0945	mg/L	0.0945	mg/L	12:34:42
2	Li 670.784†	272.2	173.9	0.0004	mg/L	0.0004	mg/L	12:34:42
2	Na 589.592	2528.4	282.6	-0.2227	mg/L	-0.2227	mg/L	12:34:42
2	Y 371.029	2812636.3	2812636.3	0.909	mg/L			12:35:47
2	Ag 328.068†	-2659.4	-919.0	-0.0004	mg/L	-0.0004	mg/L	12:35:52
2	Al 237.313†	1886669.7	2076235.3	254.2	mg/L	254.2	mg/L	12:35:47
2	As 188.979†	9.8	2.5	-0.0008	mg/L	-0.0008	mg/L	12:36:13
2	B 182.528†	9.7	16.6	0.0305	mg/L	0.0305	mg/L	12:36:13
2	Ba 233.527†	67.8	260.7	0.0006	mg/L	0.0006	mg/L	12:36:13
2	Be 313.107†	-2428.7	-2697.8	-0.0001	mg/L	-0.0001	mg/L	12:35:52
2	Ca 315.886†	33568927.3	36935869.5	243.6	mg/L	243.6	mg/L	12:35:40
2	Cd 228.802†	94.6	-33.7	-0.0013	mg/L	-0.0013	mg/L	12:36:13
2	Co 228.616†	-162.8	9.4	-0.0020	mg/L	-0.0020	mg/L	12:36:13
2	Cr 267.716†	1129.0	-648.6	-0.0007	mg/L	-0.0007	mg/L	12:35:52

2	Cu 324.752†	723.2	-1875.4	0.0066 mg/L	0.0066 mg/L	12:35:52
2	Fe 234.349†	4306577.6	4737500.2	92.07 mg/L	92.07 mg/L	12:35:47
2	Fe 238.204†	9125941.6	10041100.3	86.98 mg/L	86.98 mg/L	12:35:40
2	Mg 279.077†	5222436.6	5745938.1	236.5 mg/L	236.5 mg/L	12:35:47
2	Mn 257.610†	5994.9	5302.3	0.0025 mg/L	0.0025 mg/L	12:35:52
2	Mo 202.031†	196.7	204.9	0.0125 mg/L	0.0125 mg/L	12:36:13
2	Ni 231.604†	70.5	48.5	-0.0027 mg/L	-0.0027 mg/L	12:36:13
2	P 214.914†	-58.0	-107.8	-0.0763 mg/L	-0.0763 mg/L	12:36:13
2	Pb 220.353†	-565.8	-461.0	-0.0101 mg/L	-0.0101 mg/L	12:36:13
2	Sb 206.836†	-8.1	-16.1	-0.0097 mg/L	-0.0097 mg/L	12:36:13
2	Se 196.026†	15.0	27.7	0.0221 mg/L	0.0221 mg/L	12:36:13
2	Sn 189.927†	-51.0	-159.2	-0.0397 mg/L	-0.0397 mg/L	12:36:13
2	Sr 407.771†	21242.8	17529.3	0.0005 mg/L	0.0005 mg/L	12:35:52
2	Ti 337.279†	1727.8	4147.0	0.0055 mg/L	0.0055 mg/L	12:35:52
2	Tl 190.801†	60.3	71.4	0.0521 mg/L	0.0521 mg/L	12:36:13
2	V 292.402†	935.1	2950.7	0.0011 mg/L	0.0011 mg/L	12:35:52
2	Zn 213.857†	2459.1	2053.9	0.0153 mg/L	0.0153 mg/L	12:36:13

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2810655.7	0.908	mg/L	0.0009				0.10%
Ag 328.068†	-894.1	-0.0003	mg/L	0.00014	-0.0003	mg/L	0.00014	51.05%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	2076906.9	254.3	mg/L	0.12	254.3	mg/L	0.12	0.05%
QC value within limits for Al 237.313 Recovery = 101.73%								
As 188.979†	-0.6	-0.0051	mg/L	0.00607	-0.0051	mg/L	0.00607	119.88%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	15.4	0.0280	mg/L	0.00346	0.0280	mg/L	0.00346	12.34%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	244.6	0.0005	mg/L	0.00020	0.0005	mg/L	0.00020	41.02%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-2648.3	-0.0001	mg/L	0.00002	-0.0001	mg/L	0.00002	16.00%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	36944609.0	243.7	mg/L	0.08	243.7	mg/L	0.08	0.03%
QC value within limits for Ca 315.886 Recovery = 97.47%								
Cd 228.802†	-30.8	-0.0012	mg/L	0.00013	-0.0012	mg/L	0.00013	11.17%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	6.5	-0.0021	mg/L	0.00010	-0.0021	mg/L	0.00010	4.92%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-636.9	-0.0006	mg/L	0.00012	-0.0006	mg/L	0.00012	18.85%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-1919.4	0.0064	mg/L	0.00024	0.0064	mg/L	0.00024	3.77%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	4740762.3	92.14	mg/L	0.090	92.14	mg/L	0.090	0.10%
QC value within limits for Fe 234.349 Recovery = 92.14%								
Fe 238.204†	10038753.9	86.96	mg/L	0.029	86.96	mg/L	0.029	0.03%
QC value within limits for Fe 238.204 Recovery = 86.96%								
K 766.490†	153.2	0.0855	mg/L	0.01267	0.0855	mg/L	0.01267	14.82%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	117.5	-0.0012	mg/L	0.00229	-0.0012	mg/L	0.00229	193.62%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	5749809.3	236.7	mg/L	0.23	236.7	mg/L	0.23	0.10%
QC value within limits for Mg 279.077 Recovery = 94.68%								
Mn 257.610†	5254.4	0.0025	mg/L	0.00008	0.0025	mg/L	0.00008	3.08%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	215.7	0.0133	mg/L	0.00104	0.0133	mg/L	0.00104	7.85%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	225.9	-0.2297	mg/L	0.00988	-0.2297	mg/L	0.00988	4.30%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	43.3	-0.0028	mg/L	0.00023	-0.0028	mg/L	0.00023	7.97%
QC value within limits for Ni 231.604 Recovery = Not calculated								
P 214.914†	-105.6	-0.0747	mg/L	0.00222	-0.0747	mg/L	0.00222	2.98%
QC value within limits for P 214.914 Recovery = Not calculated								
Pb 220.353†	-449.8	-0.0088	mg/L	0.00185	-0.0088	mg/L	0.00185	21.03%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-12.6	-0.0081	mg/L	0.00237	-0.0081	mg/L	0.00237	29.40%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	23.5	0.0171	mg/L	0.00698	0.0171	mg/L	0.00698	40.70%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-148.3	-0.0368	mg/L	0.00402	-0.0368	mg/L	0.00402	10.91%

QC value within limits for Sn 189.927 Recovery = Not calculated

Sr 407.771†	17569.7	0.0005 mg/L	0.00000	0.0005 mg/L	0.00000	0.51%

QC value within limits for Sr 407.771 Recovery = Not calculated

Ti 337.279†	4118.6	0.0054 mg/L	0.00005	0.0054 mg/L	0.00005	1.01%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 190.801†	69.6	0.0507 mg/L	0.00197	0.0507 mg/L	0.00197	3.89%

QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated

V 292.402†	2956.5	0.0011 mg/L	0.00004	0.0011 mg/L	0.00004	3.82%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857†	2046.5	0.0152 mg/L	0.00013	0.0152 mg/L	0.00013	0.88%

QC value within limits for Zn 213.857 Recovery = Not calculated

QC Failed. Continue with analysis.

Sequence No.: 12
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 159
Date Collected: 6/9/2006 12:37:51 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	552.6	79.9	0.0457	mg/L	0.0457	mg/L	12:39:25
1	Li 670.784†	204.4	99.5	-0.0017	mg/L	-0.0017	mg/L	12:39:25
1	Na 589.592	2437.2	191.4	-0.2340	mg/L	-0.2340	mg/L	12:39:25
1	Y 371.029	2808250.8	2808250.8	0.907	mg/L			12:39:52
1	Ag 328.068†	126885.2	141845.1	0.5378	mg/L	0.5378	mg/L	12:39:58
1	Al 237.313†	1902573.9	2097005.1	256.8	mg/L	256.8	mg/L	12:39:52
1	As 188.979†	5.7	-2.0	-0.0073	mg/L	-0.0073	mg/L	12:40:18
1	B 182.528†	14.7	22.0	0.0416	mg/L	0.0416	mg/L	12:40:18
1	Ba 233.527†	24776.9	27492.2	0.2438	mg/L	0.2438	mg/L	12:39:58
1	Be 313.107†	1031511.7	1136783.6	0.2559	mg/L	0.2559	mg/L	12:39:52
1	Ca 315.886†	34102769.7	37581890.4	247.9	mg/L	247.9	mg/L	12:39:45
1	Cd 228.802†	18121.2	19833.3	0.4709	mg/L	0.4709	mg/L	12:39:58
1	Co 228.616†	7876.8	8869.5	0.2199	mg/L	0.2199	mg/L	12:40:18
1	Cr 267.716†	33809.6	35370.0	0.2435	mg/L	0.2435	mg/L	12:39:58
1	Cu 324.752†	54216.5	57079.7	0.2511	mg/L	0.2511	mg/L	12:39:58
1	Fe 234.349†	4340942.8	4782773.8	92.95	mg/L	92.95	mg/L	12:39:52
1	Fe 238.204†	9257440.3	10201704.1	88.38	mg/L	88.38	mg/L	12:39:45
1	Mg 279.077†	5270233.6	5807588.3	239.1	mg/L	239.1	mg/L	12:39:52
1	Mn 257.610†	199718.4	218811.4	0.2442	mg/L	0.2442	mg/L	12:39:58
1	Mo 202.031†	228.0	239.8	0.0149	mg/L	0.0149	mg/L	12:40:18
1	Ni 231.604†	13152.7	14466.2	0.4445	mg/L	0.4445	mg/L	12:39:58
1	P 214.914†	-36.2	-83.8	-0.0595	mg/L	-0.0595	mg/L	12:40:18
1	Pb 220.353†	3148.3	3631.2	0.4648	mg/L	0.4648	mg/L	12:40:18
1	Sb 206.836†	7.8	1.4	-0.0053	mg/L	-0.0053	mg/L	12:40:18
1	Se 196.026†	4.3	16.0	0.0083	mg/L	0.0083	mg/L	12:40:18
1	Sn 189.927†	-36.4	-143.3	-0.0355	mg/L	-0.0355	mg/L	12:40:18
1	Sr 407.771†	21508.5	17858.6	0.0006	mg/L	0.0006	mg/L	12:39:58
1	Ti 337.279†	1676.3	4093.3	0.0054	mg/L	0.0054	mg/L	12:39:58
1	Tl 190.801†	57.4	68.2	0.0514	mg/L	0.0514	mg/L	12:40:18
1	V 292.402†	50272.2	57325.8	0.2479	mg/L	0.2479	mg/L	12:39:58
1	Zn 213.857†	38275.5	41530.7	0.4947	mg/L	0.4947	mg/L	12:39:58
2	K 766.490†	618.0	150.3	0.0839	mg/L	0.0839	mg/L	12:39:31
2	Li 670.784†	184.2	76.8	-0.0023	mg/L	-0.0023	mg/L	12:39:31
2	Na 589.592	2461.0	215.2	-0.2310	mg/L	-0.2310	mg/L	12:39:31
2	Y 371.029	2815461.0	2815461.0	0.910	mg/L			12:40:37
2	Ag 328.068†	126647.9	141226.0	0.5355	mg/L	0.5355	mg/L	12:40:43
2	Al 237.313†	1906119.1	2095532.4	256.6	mg/L	256.6	mg/L	12:40:37
2	As 188.979†	0.3	-7.9	-0.0153	mg/L	-0.0153	mg/L	12:41:03
2	B 182.528†	12.3	19.4	0.0362	mg/L	0.0362	mg/L	12:41:03
2	Ba 233.527†	24748.0	27390.6	0.2429	mg/L	0.2429	mg/L	12:40:43
2	Be 313.107†	1035246.8	1137978.1	0.2562	mg/L	0.2562	mg/L	12:40:37
2	Ca 315.886†	34021213.0	37395988.2	246.7	mg/L	246.7	mg/L	12:40:29
2	Cd 228.802†	18165.1	19830.4	0.4709	mg/L	0.4709	mg/L	12:40:43
2	Co 228.616†	7946.8	8924.1	0.2213	mg/L	0.2213	mg/L	12:41:03
2	Cr 267.716†	33742.7	35201.1	0.2424	mg/L	0.2424	mg/L	12:40:43
2	Cu 324.752†	54307.9	57027.2	0.2509	mg/L	0.2509	mg/L	12:40:43
2	Fe 234.349†	4363575.1	4795400.7	93.19	mg/L	93.19	mg/L	12:40:37
2	Fe 238.204†	9225836.0	10140835.0	87.85	mg/L	87.85	mg/L	12:40:29

2	Mg 279.077†	5288127.7	5812384.1	239.3 mg/L	239.3 mg/L	12:40:37
2	Mn 257.610†	199805.1	218343.1	0.2437 mg/L	0.2437 mg/L	12:40:43
2	Mo 202.031†	205.6	214.4	0.0132 mg/L	0.0132 mg/L	12:41:03
2	Ni 231.604†	13120.3	14393.5	0.4422 mg/L	0.4422 mg/L	12:40:43
2	P 214.914†	-31.0	-78.1	-0.0554 mg/L	-0.0554 mg/L	12:41:03
2	Pb 220.353†	3180.7	3658.0	0.4679 mg/L	0.4679 mg/L	12:41:03
2	Sb 206.836†	0.6	-6.5	-0.0090 mg/L	-0.0090 mg/L	12:41:03
2	Se 196.026†	9.2	21.4	0.0146 mg/L	0.0146 mg/L	12:41:03
2	Sn 189.927†	-32.1	-138.4	-0.0342 mg/L	-0.0342 mg/L	12:41:03
2	Sr 407.771†	21402.4	17681.2	0.0005 mg/L	0.0005 mg/L	12:40:43
2	Ti 337.279†	1553.7	3953.8	0.0052 mg/L	0.0052 mg/L	12:40:43
2	Tl 190.801†	57.8	68.6	0.0516 mg/L	0.0516 mg/L	12:41:03
2	V 292.402†	50333.5	57251.3	0.2475 mg/L	0.2475 mg/L	12:40:43
2	Zn 213.857†	38160.1	41295.8	0.4918 mg/L	0.4918 mg/L	12:40:43

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2811855.9	0.909	mg/L	0.0016				0.18%
Ag 328.068†	141535.5	0.5367	mg/L	0.00164	0.5367	mg/L	0.00164	0.31%
QC value within limits for Ag 328.068 Recovery = 107.33%								
Al 237.313†	2096268.7	256.7	mg/L	0.13	256.7	mg/L	0.13	0.05%
QC value within limits for Al 237.313 Recovery = 102.68%								
As 188.979†	-5.0	-0.0113	mg/L	0.00570	-0.0113	mg/L	0.00570	50.50%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	20.7	0.0389	mg/L	0.00383	0.0389	mg/L	0.00383	9.83%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	27441.4	0.2434	mg/L	0.00064	0.2434	mg/L	0.00064	0.26%
QC value within limits for Ba 233.527 Recovery = 97.36%								
Be 313.107†	1137380.8	0.2560	mg/L	0.00019	0.2560	mg/L	0.00019	0.07%
QC value within limits for Be 313.107 Recovery = 102.41%								
Ca 315.886†	37488939.3	247.3	mg/L	0.87	247.3	mg/L	0.87	0.35%
QC value within limits for Ca 315.886 Recovery = 98.91%								
Cd 228.802†	19831.8	0.4709	mg/L	0.00001	0.4709	mg/L	0.00001	0.00%
QC value within limits for Cd 228.802 Recovery = 94.17%								
Co 228.616†	8896.8	0.2206	mg/L	0.00097	0.2206	mg/L	0.00097	0.44%
QC value within limits for Co 228.616 Recovery = 88.25%								
Cr 267.716†	35285.5	0.2430	mg/L	0.00080	0.2430	mg/L	0.00080	0.33%
QC value within limits for Cr 267.716 Recovery = 97.19%								
Cu 324.752†	57053.5	0.2510	mg/L	0.00012	0.2510	mg/L	0.00012	0.05%
QC value within limits for Cu 324.752 Recovery = 100.41%								
Fe 234.349†	4789087.3	93.07	mg/L	0.174	93.07	mg/L	0.174	0.19%
QC value within limits for Fe 234.349 Recovery = 93.07%								
Fe 238.204†	10171269.5	88.11	mg/L	0.373	88.11	mg/L	0.373	0.42%
QC value within limits for Fe 238.204 Recovery = 88.11%								
K 766.490†	115.1	0.0648	mg/L	0.02701	0.0648	mg/L	0.02701	41.67%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	88.2	-0.0020	mg/L	0.00046	-0.0020	mg/L	0.00046	22.84%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	5809986.2	239.2	mg/L	0.14	239.2	mg/L	0.14	0.06%
QC value within limits for Mg 279.077 Recovery = 95.67%								
Mn 257.610†	218577.2	0.2439	mg/L	0.00037	0.2439	mg/L	0.00037	0.15%
QC value within limits for Mn 257.610 Recovery = 97.57%								
Mo 202.031†	227.1	0.0141	mg/L	0.00123	0.0141	mg/L	0.00123	8.73%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	203.3	-0.2325	mg/L	0.00207	-0.2325	mg/L	0.00207	0.89%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	14429.9	0.4433	mg/L	0.00159	0.4433	mg/L	0.00159	0.36%
QC value within limits for Ni 231.604 Recovery = 88.67%								
P 214.914†	-81.0	-0.0574	mg/L	0.00286	-0.0574	mg/L	0.00286	4.99%
QC value within limits for P 214.914 Recovery = Not calculated								
Pb 220.353†	3644.6	0.4664	mg/L	0.00216	0.4664	mg/L	0.00216	0.46%
QC value within limits for Pb 220.353 Recovery = 93.27%								
Sb 206.836†	-2.5	-0.0071	mg/L	0.00265	-0.0071	mg/L	0.00265	37.23%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	18.7	0.0115	mg/L	0.00447	0.0115	mg/L	0.00447	38.92%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-140.8	-0.0349	mg/L	0.00090	-0.0349	mg/L	0.00090	2.57%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 407.771†	17769.9	0.0006	mg/L	0.00001	0.0006	mg/L	0.00001	1.09%
QC value within limits for Sr 407.771 Recovery = Not calculated								

Ti 337.279†	4023.5	0.0053 mg/L	0.00014	0.0053 mg/L	0.00014	2.54%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	68.4	0.0515 mg/L	0.00016	0.0515 mg/L	0.00016	0.31%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	57288.6	0.2477 mg/L	0.00028	0.2477 mg/L	0.00028	0.11%
QC value within limits for V 292.402 Recovery = 99.07%						
Zn 213.857†	41413.3	0.4932 mg/L	0.00203	0.4932 mg/L	0.00203	0.41%
QC value within limits for Zn 213.857 Recovery = 98.65%						

QC Failed. Continue with analysis.

Sequence No.: 13
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/9/2006 12:42:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	43982.1	45067.4	24.47	mg/L	24.47	mg/L	12:44:17
1	Li 670.784†	17005.8	17504.3	0.4977	mg/L	0.4977	mg/L	12:44:17
1	Na 589.592	205851.6	203605.8	24.81	mg/L	24.81	mg/L	12:44:17
1	Y 371.029	2985338.2	2985338.2	0.965	mg/L			12:44:31
1	Ag 328.068†	62106.7	66393.7	0.2501	mg/L	0.2501	mg/L	12:44:37
1	Al 237.313†	19309.2	20233.3	2.471	mg/L	2.471	mg/L	12:44:37
1	As 188.979†	357.1	361.9	0.4890	mg/L	0.4890	mg/L	12:44:57
1	B 182.528†	225.5	239.7	0.4850	mg/L	0.4850	mg/L	12:44:57
1	Ba 233.527†	53694.3	55851.4	0.4974	mg/L	0.4974	mg/L	12:44:37
1	Be 313.107†	212625.1	220404.4	0.0490	mg/L	0.0490	mg/L	12:44:37
1	Ca 315.886†	733140.9	757943.4	4.988	mg/L	4.988	mg/L	12:44:31
1	Cd 228.802†	10319.6	10560.6	0.2490	mg/L	0.2490	mg/L	12:44:57
1	Co 228.616†	18985.3	19870.7	0.4946	mg/L	0.4946	mg/L	12:44:37
1	Cr 267.716†	72748.5	73527.9	0.4967	mg/L	0.4967	mg/L	12:44:37
1	Cu 324.752†	119339.8	121049.1	0.5003	mg/L	0.5003	mg/L	12:44:37
1	Fe 234.349†	125321.1	128626.3	2.485	mg/L	2.485	mg/L	12:44:37
1	Fe 238.204†	279936.8	289471.6	2.496	mg/L	2.496	mg/L	12:44:37
1	Mg 279.077†	117774.9	121464.4	4.979	mg/L	4.979	mg/L	12:44:37
1	Mn 257.610†	430645.6	445158.6	0.5004	mg/L	0.5004	mg/L	12:44:31
1	Mo 202.031†	7044.0	7291.0	0.4979	mg/L	0.4979	mg/L	12:44:57
1	Ni 231.604†	15623.4	16167.7	0.4976	mg/L	0.4976	mg/L	12:44:37
1	P 214.914†	6810.9	7017.0	4.926	mg/L	4.926	mg/L	12:44:57
1	Pb 220.353†	4016.3	4325.3	0.4999	mg/L	0.4999	mg/L	12:44:57
1	Sb 206.836†	1017.8	1048.0	0.4917	mg/L	0.4917	mg/L	12:44:57
1	Se 196.026†	816.7	857.9	0.9970	mg/L	0.9970	mg/L	12:44:57
1	Sn 189.927†	1936.1	1904.0	0.4938	mg/L	0.4938	mg/L	12:44:57
1	Sr 407.771†	1020704.4	1052325.0	0.0501	mg/L	0.0501	mg/L	12:44:31
1	Ti 337.279†	346869.5	361847.6	0.4949	mg/L	0.4949	mg/L	12:44:37
1	Tl 190.801†	621.0	648.8	0.5054	mg/L	0.5054	mg/L	12:44:57
1	V 292.402†	103392.1	109109.0	0.5022	mg/L	0.5022	mg/L	12:44:37
1	Zn 213.857†	39858.9	40670.0	0.4926	mg/L	0.4926	mg/L	12:44:37
2	K 766.490†	44173.0	45034.6	24.45	mg/L	24.45	mg/L	12:44:22
2	Li 670.784†	17086.9	17499.1	0.4975	mg/L	0.4975	mg/L	12:44:22
2	Na 589.592	207197.8	204951.9	24.98	mg/L	24.98	mg/L	12:44:22
2	Y 371.029	3000457.2	3000457.2	0.969	mg/L			12:45:03
2	Ag 328.068†	62247.0	66213.9	0.2494	mg/L	0.2494	mg/L	12:45:09
2	Al 237.313†	19317.6	20141.1	2.460	mg/L	2.460	mg/L	12:45:09
2	As 188.979†	352.5	355.3	0.4800	mg/L	0.4800	mg/L	12:45:29
2	B 182.528†	227.0	240.0	0.4858	mg/L	0.4858	mg/L	12:45:29
2	Ba 233.527†	53705.2	55582.1	0.4950	mg/L	0.4950	mg/L	12:45:09
2	Be 313.107†	213724.6	220427.7	0.0490	mg/L	0.0490	mg/L	12:45:09
2	Ca 315.886†	736690.4	757774.8	4.987	mg/L	4.987	mg/L	12:45:03
2	Cd 228.802†	10293.9	10480.3	0.2472	mg/L	0.2472	mg/L	12:45:29
2	Co 228.616†	19017.6	19804.8	0.4930	mg/L	0.4930	mg/L	12:45:09
2	Cr 267.716†	72767.1	73167.1	0.4943	mg/L	0.4943	mg/L	12:45:09
2	Cu 324.752†	119684.8	120781.6	0.4991	mg/L	0.4991	mg/L	12:45:09
2	Fe 234.349†	125439.5	128093.8	2.475	mg/L	2.475	mg/L	12:45:09
2	Fe 238.204†	279946.0	288018.6	2.484	mg/L	2.484	mg/L	12:45:09
2	Mg 279.077†	117744.5	120817.9	4.952	mg/L	4.952	mg/L	12:45:09
2	Mn 257.610†	432679.5	445006.9	0.5002	mg/L	0.5002	mg/L	12:45:03
2	Mo 202.031†	7042.7	7252.9	0.4953	mg/L	0.4953	mg/L	12:45:29

Analysis Begun

Start Time: 6/9/2006 2:58:38 PM
Logged In Analyst: ICP3
Spectrometer Model: Optima 4300 DV, S/N 077N1032302
Plasma On Time: 6/9/2006 10:39:41 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\060906nb.sif
Batch ID: 060906nb
Results Data Set: 060906nad
Results Library: Q:\Metals\Results\ICP3\Results\Results.mdb

Sequence No.: 1
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 3
Date Collected: 6/9/2006 2:58:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	43015.5	45073.8	24.47	mg/L	24.47	mg/L	15:00:14
1	Li 670.784†	16652.4	17528.4	0.4984	mg/L	0.4984	mg/L	15:00:14
1	Na 589.592	200533.4	198287.6	24.16	mg/L	24.16	mg/L	15:00:14
1	Y 371.029	2919326.8	2919326.8	0.943	mg/L			15:00:28
1	Ag 328.068†	59690.9	65288.5	0.2459	mg/L	0.2459	mg/L	15:00:34
1	Al 237.313†	18582.8	19915.9	2.432	mg/L	2.432	mg/L	15:00:34
1	As 188.979†	330.5	342.2	0.4621	mg/L	0.4621	mg/L	15:00:54
1	B 182.528†	215.9	234.8	0.4750	mg/L	0.4750	mg/L	15:00:54
1	Ba 233.527†	51334.0	54607.8	0.4863	mg/L	0.4863	mg/L	15:00:34
1	Be 313.107†	203652.7	215876.7	0.0480	mg/L	0.0480	mg/L	15:00:34
1	Ca 315.886†	707810.8	748275.9	4.924	mg/L	4.924	mg/L	15:00:28
1	Cd 228.802†	9932.1	10391.7	0.2451	mg/L	0.2451	mg/L	15:00:54
1	Co 228.616†	18215.9	19500.1	0.4854	mg/L	0.4854	mg/L	15:00:34
1	Cr 267.716†	69374.7	71656.6	0.4840	mg/L	0.4840	mg/L	15:00:34
1	Cu 324.752†	115251.9	119513.0	0.4939	mg/L	0.4939	mg/L	15:00:34
1	Fe 234.349†	119925.9	125844.4	2.432	mg/L	2.432	mg/L	15:00:34
1	Fe 238.204†	267270.8	282605.9	2.437	mg/L	2.437	mg/L	15:00:34
1	Mg 279.077†	111537.6	117612.8	4.820	mg/L	4.820	mg/L	15:00:34
1	Mn 257.610†	418906.7	442808.8	0.4977	mg/L	0.4977	mg/L	15:00:28
1	Mo 202.031†	6787.2	7183.8	0.4905	mg/L	0.4905	mg/L	15:00:54
1	Ni 231.604†	14818.5	15680.7	0.4825	mg/L	0.4825	mg/L	15:00:34
1	P 214.914†	6491.5	6838.0	4.800	mg/L	4.800	mg/L	15:00:54
1	Pb 220.353†	3821.1	4212.5	0.4868	mg/L	0.4868	mg/L	15:00:54
1	Sb 206.836†	970.8	1022.0	0.4794	mg/L	0.4794	mg/L	15:00:54
1	Se 196.026†	767.0	824.3	0.9576	mg/L	0.9576	mg/L	15:00:54
1	Sn 189.927†	1881.0	1891.0	0.4904	mg/L	0.4904	mg/L	15:00:54
1	Sr 407.771†	1002241.5	1056678.8	0.0503	mg/L	0.0503	mg/L	15:00:28
1	Ti 337.279†	333776.3	356098.1	0.4871	mg/L	0.4871	mg/L	15:00:34
1	Tl 190.801†	584.9	625.1	0.4870	mg/L	0.4870	mg/L	15:00:54
1	V 292.402†	98967.0	106841.5	0.4918	mg/L	0.4918	mg/L	15:00:34
1	Zn 213.857†	38184.0	39828.7	0.4824	mg/L	0.4824	mg/L	15:00:34
2	K 766.490†	43046.2	45067.4	24.47	mg/L	24.47	mg/L	15:00:19
2	Li 670.784†	16645.0	17505.5	0.4977	mg/L	0.4977	mg/L	15:00:19
2	Na 589.592	199940.4	197694.6	24.08	mg/L	24.08	mg/L	15:00:19
2	Y 371.029	2921812.7	2921812.7	0.944	mg/L			15:01:00
2	Ag 328.068†	60876.8	66490.8	0.2505	mg/L	0.2505	mg/L	15:01:06
2	Al 237.313†	18681.3	20003.4	2.443	mg/L	2.443	mg/L	15:01:06
2	As 188.979†	337.1	348.9	0.4712	mg/L	0.4712	mg/L	15:01:26
2	B 182.528†	209.3	227.6	0.4605	mg/L	0.4605	mg/L	15:01:26
2	Ba 233.527†	52059.5	55329.9	0.4927	mg/L	0.4927	mg/L	15:01:06
2	Be 313.107†	207129.6	219375.8	0.0488	mg/L	0.0488	mg/L	15:01:06
2	Ca 315.886†	709889.8	749839.6	4.935	mg/L	4.935	mg/L	15:01:00
2	Cd 228.802†	9950.4	10402.2	0.2453	mg/L	0.2453	mg/L	15:01:26

2	Co 228.616†	18440.5	19721.5	0.4909 mg/L	0.4909 mg/L	15:01:06
2	Cr 267.716†	70196.3	72464.2	0.4895 mg/L	0.4895 mg/L	15:01:06
2	Cu 324.752†	117034.8	121297.5	0.5013 mg/L	0.5013 mg/L	15:01:06
2	Fe 234.349†	121061.7	126939.3	2.453 mg/L	2.453 mg/L	15:01:06
2	Fe 238.204†	270930.4	286241.2	2.468 mg/L	2.468 mg/L	15:01:06
2	Mg 279.077†	113162.6	119233.5	4.887 mg/L	4.887 mg/L	15:01:06
2	Mn 257.610†	419937.4	443522.7	0.4985 mg/L	0.4985 mg/L	15:01:00
2	Mo 202.031†	6805.2	7196.8	0.4914 mg/L	0.4914 mg/L	15:01:26
2	Ni 231.604†	14843.8	15694.2	0.4829 mg/L	0.4829 mg/L	15:01:06
2	P 214.914†	6498.8	6839.9	4.802 mg/L	4.802 mg/L	15:01:26
2	Pb 220.353†	3847.0	4236.4	0.4895 mg/L	0.4895 mg/L	15:01:26
2	Sb 206.836†	968.6	1018.8	0.4777 mg/L	0.4777 mg/L	15:01:26
2	Se 196.026†	769.0	825.8	0.9593 mg/L	0.9593 mg/L	15:01:26
2	Sn 189.927†	1880.7	1889.0	0.4899 mg/L	0.4899 mg/L	15:01:26
2	Sr 407.771†	1001787.5	1055293.9	0.0503 mg/L	0.0503 mg/L	15:01:00
2	Ti 337.279†	338141.8	360421.2	0.4930 mg/L	0.4930 mg/L	15:01:06
2	Tl 190.801†	588.8	628.7	0.4898 mg/L	0.4898 mg/L	15:01:26
2	V 292.402†	100089.9	107941.7	0.4968 mg/L	0.4968 mg/L	15:01:06
2	Zn 213.857†	38492.5	40121.0	0.4860 mg/L	0.4860 mg/L	15:01:06

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2920569.8	0.944	mg/L	0.0006				0.06%
Ag 328.068†	65889.6	0.2482	mg/L	0.00321	0.2482	mg/L	0.00321	1.29%
QC value within limits for Ag 328.068 Recovery = 99.28%								
Al 237.313†	19959.7	2.438	mg/L	0.0075	2.438	mg/L	0.0075	0.31%
QC value within limits for Al 237.313 Recovery = 97.51%								
As 188.979†	345.5	0.4666	mg/L	0.00644	0.4666	mg/L	0.00644	1.38%
QC value within limits for As 188.979 Recovery = 93.32%								
B 182.528†	231.2	0.4678	mg/L	0.01025	0.4678	mg/L	0.01025	2.19%
QC value within limits for B 182.528 Recovery = 93.56%								
Ba 233.527†	54968.9	0.4895	mg/L	0.00456	0.4895	mg/L	0.00456	0.93%
QC value within limits for Ba 233.527 Recovery = 97.90%								
Be 313.107†	217626.2	0.0484	mg/L	0.00055	0.0484	mg/L	0.00055	1.14%
QC value within limits for Be 313.107 Recovery = 96.79%								
Ca 315.886†	749057.8	4.930	mg/L	0.0073	4.930	mg/L	0.0073	0.15%
QC value within limits for Ca 315.886 Recovery = 98.59%								
Cd 228.802†	10397.0	0.2452	mg/L	0.00016	0.2452	mg/L	0.00016	0.06%
QC value within limits for Cd 228.802 Recovery = 98.09%								
Co 228.616†	19610.8	0.4881	mg/L	0.00392	0.4881	mg/L	0.00392	0.80%
QC value within limits for Co 228.616 Recovery = 97.63%								
Cr 267.716†	72060.4	0.4868	mg/L	0.00387	0.4868	mg/L	0.00387	0.80%
QC value within limits for Cr 267.716 Recovery = 97.35%								
Cu 324.752†	120405.2	0.4976	mg/L	0.00524	0.4976	mg/L	0.00524	1.05%
QC value within limits for Cu 324.752 Recovery = 99.52%								
Fe 234.349†	126391.8	2.442	mg/L	0.0150	2.442	mg/L	0.0150	0.62%
QC value within limits for Fe 234.349 Recovery = 97.69%								
Fe 238.204†	284423.6	2.452	mg/L	0.0223	2.452	mg/L	0.0223	0.91%
QC value within limits for Fe 238.204 Recovery = 98.10%								
K 766.490†	45070.6	24.47	mg/L	0.002	24.47	mg/L	0.002	0.01%
QC value within limits for K 766.490 Recovery = 97.88%								
Li 670.784†	17516.9	0.4980	mg/L	0.00046	0.4980	mg/L	0.00046	0.09%
QC value within limits for Li 670.784 Recovery = 99.61%								
Mg 279.077†	118423.1	4.853	mg/L	0.0472	4.853	mg/L	0.0472	0.97%
QC value within limits for Mg 279.077 Recovery = 97.07%								
Mn 257.610†	443165.8	0.4981	mg/L	0.00057	0.4981	mg/L	0.00057	0.11%
QC value within limits for Mn 257.610 Recovery = 99.62%								
Mo 202.031†	7190.3	0.4910	mg/L	0.00063	0.4910	mg/L	0.00063	0.13%
QC value within limits for Mo 202.031 Recovery = 98.20%								
Na 589.592	197991.1	24.12	mg/L	0.052	24.12	mg/L	0.052	0.21%
QC value within limits for Na 589.592 Recovery = 96.48%								
Ni 231.604†	15687.4	0.4827	mg/L	0.00030	0.4827	mg/L	0.00030	0.06%
QC value within limits for Ni 231.604 Recovery = 96.55%								
P 214.914†	6838.9	4.801	mg/L	0.0010	4.801	mg/L	0.0010	0.02%
QC value within limits for P 214.914 Recovery = 96.02%								

Pb 220.353†	4224.5	0.4881 mg/L	0.00197	0.4881 mg/L	0.00197	0.40%
QC value within limits for Pb 220.353 Recovery = 97.63%						
Sb 206.836†	1020.4	0.4786 mg/L	0.00116	0.4786 mg/L	0.00116	0.24%
QC value within limits for Sb 206.836 Recovery = 95.71%						
Se 196.026†	825.0	0.9585 mg/L	0.00120	0.9585 mg/L	0.00120	0.12%
QC value within limits for Se 196.026 Recovery = 95.85%						
Sn 189.927†	1890.0	0.4902 mg/L	0.00035	0.4902 mg/L	0.00035	0.07%
QC value within limits for Sn 189.927 Recovery = 98.04%						
Sr 407.771†	1055986.4	0.0503 mg/L	0.00005	0.0503 mg/L	0.00005	0.09%
QC value within limits for Sr 407.771 Recovery = 100.60%						
Ti 337.279†	358259.7	0.4900 mg/L	0.00418	0.4900 mg/L	0.00418	0.85%
QC value within limits for Ti 337.279 Recovery = 98.01%						
Tl 190.801†	626.9	0.4884 mg/L	0.00196	0.4884 mg/L	0.00196	0.40%
QC value within limits for Tl 190.801 Recovery = 97.67%						
V 292.402†	107391.6	0.4943 mg/L	0.00353	0.4943 mg/L	0.00353	0.72%
QC value within limits for V 292.402 Recovery = 98.86%						
Zn 213.857†	39974.9	0.4842 mg/L	0.00253	0.4842 mg/L	0.00253	0.52%
QC value within limits for Zn 213.857 Recovery = 96.84%						

All analyte(s) passed QC.

Sequence No.: 2
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/9/2006 3:03:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	550.6	52.7	0.0309	mg/L	0.0309	mg/L	15:04:40
1	Li 670.784†	224.7	111.7	-0.0013	mg/L	-0.0013	mg/L	15:04:40
1	Na 589.592	2425.2	179.3	-0.2354	mg/L	-0.2354	mg/L	15:04:40
1	Y 371.029	2929250.1	2929250.1	0.946	mg/L			15:04:53
1	Ag 328.068†	-1839.5	63.8	-0.0004	mg/L	-0.0004	mg/L	15:04:58
1	Al 237.313†	-183.8	21.2	0.0011	mg/L	0.0011	mg/L	15:05:18
1	As 188.979†	6.5	-1.4	-0.0061	mg/L	-0.0061	mg/L	15:05:18
1	B 182.528†	-2.3	3.5	0.0039	mg/L	0.0039	mg/L	15:05:18
1	Ba 233.527†	-171.2	5.2	-0.0016	mg/L	-0.0016	mg/L	15:05:18
1	Be 313.107†	98.0	78.1	0.0000	mg/L	0.0000	mg/L	15:04:58
1	Ca 315.886†	2081.3	90.7	-0.0133	mg/L	-0.0133	mg/L	15:04:58
1	Cd 228.802†	121.0	-9.9	-0.0013	mg/L	-0.0013	mg/L	15:05:18
1	Co 228.616†	-173.4	5.4	-0.0021	mg/L	-0.0021	mg/L	15:05:18
1	Cr 267.716†	1809.2	20.6	-0.0017	mg/L	-0.0017	mg/L	15:04:58
1	Cu 324.752†	2519.7	-8.9	-0.0022	mg/L	-0.0022	mg/L	15:04:58
1	Fe 234.349†	1284.7	62.5	-0.0079	mg/L	-0.0079	mg/L	15:05:18
1	Fe 238.204†	910.4	221.2	-0.0105	mg/L	-0.0105	mg/L	15:05:18
1	Mg 279.077†	668.8	73.1	-0.0238	mg/L	-0.0238	mg/L	15:04:58
1	Mn 257.610†	1311.5	91.4	-0.0034	mg/L	-0.0034	mg/L	15:04:58
1	Mo 202.031†	19.9	9.4	-0.0008	mg/L	-0.0008	mg/L	15:05:18
1	Ni 231.604†	21.6	-6.3	-0.0044	mg/L	-0.0044	mg/L	15:05:18
1	P 214.914†	51.3	10.2	0.0066	mg/L	0.0066	mg/L	15:05:18
1	Pb 220.353†	-141.5	12.1	-0.0016	mg/L	-0.0016	mg/L	15:05:18
1	Sb 206.836†	17.4	11.2	0.0033	mg/L	0.0033	mg/L	15:05:18
1	Se 196.026†	-5.4	5.5	-0.0039	mg/L	-0.0039	mg/L	15:05:18
1	Sn 189.927†	97.5	-0.1	-0.0020	mg/L	-0.0020	mg/L	15:05:18
1	Sr 407.771†	5483.1	-52.4	-0.0003	mg/L	-0.0003	mg/L	15:04:53
1	Ti 337.279†	-2241.4	-122.3	-0.0004	mg/L	-0.0004	mg/L	15:04:58
1	Tl 190.801†	3.0	8.2	0.0027	mg/L	0.0027	mg/L	15:05:18
1	V 292.402†	-1860.9	-44.4	-0.0008	mg/L	-0.0008	mg/L	15:04:58
1	Zn 213.857†	667.7	53.5	-0.0009	mg/L	-0.0009	mg/L	15:05:18
2	K 766.490†	542.3	46.7	0.0277	mg/L	0.0277	mg/L	15:04:45
2	Li 670.784†	149.8	33.4	-0.0036	mg/L	-0.0036	mg/L	15:04:45
2	Na 589.592	2461.7	215.9	-0.2309	mg/L	-0.2309	mg/L	15:04:45
2	Y 371.029	2914831.7	2914831.7	0.942	mg/L			15:05:24
2	Ag 328.068†	-1988.4	-104.0	-0.0010	mg/L	-0.0010	mg/L	15:05:29
2	Al 237.313†	-163.1	42.2	0.0037	mg/L	0.0037	mg/L	15:05:50
2	As 188.979†	4.3	-3.7	-0.0092	mg/L	-0.0092	mg/L	15:05:50
2	B 182.528†	-1.5	4.3	0.0054	mg/L	0.0054	mg/L	15:05:50
2	Ba 233.527†	-171.4	4.1	-0.0017	mg/L	-0.0017	mg/L	15:05:50
2	Be 313.107†	8.5	-16.3	-0.0001	mg/L	-0.0001	mg/L	15:05:29
2	Ca 315.886†	2206.8	234.9	-0.0124	mg/L	-0.0124	mg/L	15:05:29
2	Cd 228.802†	125.8	-4.2	-0.0012	mg/L	-0.0012	mg/L	15:05:50
2	Co 228.616†	-185.1	-8.0	-0.0025	mg/L	-0.0025	mg/L	15:05:50
2	Cr 267.716†	1787.9	7.5	-0.0018	mg/L	-0.0018	mg/L	15:05:29
2	Cu 324.752†	2379.8	-144.3	-0.0028	mg/L	-0.0028	mg/L	15:05:29
2	Fe 234.349†	1318.2	104.8	-0.0071	mg/L	-0.0071	mg/L	15:05:50
2	Fe 238.204†	896.2	210.9	-0.0106	mg/L	-0.0106	mg/L	15:05:50
2	Mg 279.077†	720.6	131.6	-0.0214	mg/L	-0.0214	mg/L	15:05:29
2	Mn 257.610†	1363.6	153.6	-0.0033	mg/L	-0.0033	mg/L	15:05:29
2	Mo 202.031†	17.4	6.9	-0.0010	mg/L	-0.0010	mg/L	15:05:50
2	Ni 231.604†	19.5	-8.5	-0.0045	mg/L	-0.0045	mg/L	15:05:50
2	P 214.914†	61.5	21.4	0.0144	mg/L	0.0144	mg/L	15:05:50
2	Pb 220.353†	-150.7	1.6	-0.0028	mg/L	-0.0028	mg/L	15:05:50
2	Sb 206.836†	6.1	-0.6	-0.0024	mg/L	-0.0024	mg/L	15:05:50
2	Se 196.026†	-7.5	3.3	-0.0066	mg/L	-0.0066	mg/L	15:05:50
2	Sn 189.927†	100.9	4.0	-0.0009	mg/L	-0.0009	mg/L	15:05:50
2	Sr 407.771†	5432.0	-77.9	-0.0003	mg/L	-0.0003	mg/L	15:05:24
2	Ti 337.279†	-2107.3	8.3	-0.0002	mg/L	-0.0002	mg/L	15:05:29
2	Tl 190.801†	-8.9	-4.4	-0.0071	mg/L	-0.0071	mg/L	15:05:50
2	V 292.402†	-1798.4	12.3	-0.0005	mg/L	-0.0005	mg/L	15:05:29
2	Zn 213.857†	648.0	36.0	-0.0011	mg/L	-0.0011	mg/L	15:05:50

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD

Y 371.029	2922040.9	0.944 mg/L	0.0033			0.35%
Ag 328.068†	-20.1	-0.0007 mg/L	0.00045	-0.0007 mg/L	0.00045	66.84%
QC value within limits for Ag 328.068 Recovery = Not calculated						
Al 237.313†	31.7	0.0024 mg/L	0.00182	0.0024 mg/L	0.00182	75.62%
QC value within limits for Al 237.313 Recovery = Not calculated						
As 188.979†	-2.5	-0.0076 mg/L	0.00224	-0.0076 mg/L	0.00224	29.35%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	3.9	0.0047 mg/L	0.00110	0.0047 mg/L	0.00110	23.64%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	4.7	-0.0016 mg/L	0.00001	-0.0016 mg/L	0.00001	0.44%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	30.9	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	33.74%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.886†	162.8	-0.0129 mg/L	0.00067	-0.0129 mg/L	0.00067	5.23%
QC value within limits for Ca 315.886 Recovery = Not calculated						
Cd 228.802†	-7.1	-0.0012 mg/L	0.00011	-0.0012 mg/L	0.00011	8.76%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-1.3	-0.0023 mg/L	0.00024	-0.0023 mg/L	0.00024	10.31%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated						
Cr 267.716†	14.0	-0.0017 mg/L	0.00006	-0.0017 mg/L	0.00006	3.65%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-76.6	-0.0025 mg/L	0.00040	-0.0025 mg/L	0.00040	15.72%
QC value less than the lower limit for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	83.7	-0.0075 mg/L	0.00058	-0.0075 mg/L	0.00058	7.76%
QC value within limits for Fe 234.349 Recovery = Not calculated						
Fe 238.204†	216.0	-0.0106 mg/L	0.00006	-0.0106 mg/L	0.00006	0.60%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	49.7	0.0293 mg/L	0.00229	0.0293 mg/L	0.00229	7.81%
QC value within limits for K 766.490 Recovery = Not calculated						
Li 670.784†	72.5	-0.0025 mg/L	0.00159	-0.0025 mg/L	0.00159	64.30%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	102.4	-0.0226 mg/L	0.00170	-0.0226 mg/L	0.00170	7.53%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	122.5	-0.0033 mg/L	0.00005	-0.0033 mg/L	0.00005	1.50%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	8.2	-0.0009 mg/L	0.00012	-0.0009 mg/L	0.00012	13.25%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	197.6	-0.2332 mg/L	0.00318	-0.2332 mg/L	0.00318	1.36%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	-7.4	-0.0044 mg/L	0.00005	-0.0044 mg/L	0.00005	1.08%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated						
P 214.914†	15.8	0.0105 mg/L	0.00554	0.0105 mg/L	0.00554	52.65%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	6.8	-0.0022 mg/L	0.00086	-0.0022 mg/L	0.00086	38.86%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	5.3	0.0005 mg/L	0.00404	0.0005 mg/L	0.00404	839.24%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	4.4	-0.0053 mg/L	0.00190	-0.0053 mg/L	0.00190	35.87%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	1.9	-0.0015 mg/L	0.00075	-0.0015 mg/L	0.00075	51.59%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	-65.1	-0.0003 mg/L	0.00000	-0.0003 mg/L	0.00000	0.29%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	-57.0	-0.0003 mg/L	0.00013	-0.0003 mg/L	0.00013	47.67%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	1.9	-0.0022 mg/L	0.00697	-0.0022 mg/L	0.00697	319.11%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	-16.0	-0.0006 mg/L	0.00018	-0.0006 mg/L	0.00018	28.27%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	44.8	-0.0010 mg/L	0.00015	-0.0010 mg/L	0.00015	15.31%
QC value within limits for Zn 213.857 Recovery = Not calculated						

QC Failed. Continue with analysis.

Sequence No.: 3
Sample ID: BF60804-BLK1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 6/9/2006 3:07:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60804-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	544.1	50.0	0.0295	mg/L	0.0295	mg/L	15:09:00
1	Li 670.784†	189.5	76.0	-0.0024	mg/L	-0.0024	mg/L	15:09:00
1	Na 589.592	2294.1	48.3	-0.2516	mg/L	-0.2516	mg/L	15:09:00
1	Y 371.029	2907715.6	2907715.6	0.940	mg/L			15:09:13
1	Ag 328.068†	-2158.0	-289.6	-0.0017	mg/L	-0.0017	mg/L	15:09:18
1	Al 237.313†	-136.4	70.2	0.0071	mg/L	0.0071	mg/L	15:09:38
1	As 188.979†	6.3	-1.6	-0.0064	mg/L	-0.0064	mg/L	15:09:38
1	B 182.528†	-3.6	2.1	0.0010	mg/L	0.0010	mg/L	15:09:38
1	Ba 233.527†	-167.3	8.1	-0.0016	mg/L	-0.0016	mg/L	15:09:38
1	Be 313.107†	135.1	118.4	0.0000	mg/L	0.0000	mg/L	15:09:18
1	Ca 315.886†	3286.3	1389.6	-0.0048	mg/L	-0.0048	mg/L	15:09:18
1	Cd 228.802†	127.2	-2.4	-0.0011	mg/L	-0.0011	mg/L	15:09:38
1	Co 228.616†	-203.1	-27.6	-0.0030	mg/L	-0.0030	mg/L	15:09:38
1	Cr 267.716†	1847.1	75.1	-0.0013	mg/L	-0.0013	mg/L	15:09:18
1	Cu 324.752†	2407.0	-109.1	-0.0027	mg/L	-0.0027	mg/L	15:09:18
1	Fe 234.349†	1685.9	499.7	0.0006	mg/L	0.0006	mg/L	15:09:38
1	Fe 238.204†	1728.9	1099.5	-0.0029	mg/L	-0.0029	mg/L	15:09:38
1	Mg 279.077†	679.2	89.4	-0.0232	mg/L	-0.0232	mg/L	15:09:18
1	Mn 257.610†	1859.2	684.6	-0.0027	mg/L	-0.0027	mg/L	15:09:18
1	Mo 202.031†	25.6	15.7	-0.0004	mg/L	-0.0004	mg/L	15:09:38
1	Ni 231.604†	24.0	-3.5	-0.0043	mg/L	-0.0043	mg/L	15:09:38
1	P 214.914†	49.5	8.8	0.0056	mg/L	0.0056	mg/L	15:09:38
1	Pb 220.353†	-147.9	4.2	-0.0025	mg/L	-0.0025	mg/L	15:09:38
1	Sb 206.836†	11.8	5.5	0.0005	mg/L	0.0005	mg/L	15:09:38
1	Se 196.026†	-6.4	4.4	-0.0053	mg/L	-0.0053	mg/L	15:09:38
1	Sn 189.927†	85.4	-12.2	-0.0051	mg/L	-0.0051	mg/L	15:09:38
1	Sr 407.771†	5760.7	286.1	-0.0003	mg/L	-0.0003	mg/L	15:09:13
1	Ti 337.279†	-2062.0	51.1	-0.0001	mg/L	-0.0001	mg/L	15:09:18
1	Tl 190.801†	-15.9	-11.9	-0.0129	mg/L	-0.0129	mg/L	15:09:38
1	V 292.402†	-1826.6	-22.4	-0.0007	mg/L	-0.0007	mg/L	15:09:18
1	Zn 213.857†	1031.4	445.9	0.0039	mg/L	0.0039	mg/L	15:09:38
2	K 766.490†	531.7	37.9	0.0229	mg/L	0.0229	mg/L	15:09:05
2	Li 670.784†	187.3	74.0	-0.0024	mg/L	-0.0024	mg/L	15:09:05
2	Na 589.592	2357.5	111.7	-0.2438	mg/L	-0.2438	mg/L	15:09:05
2	Y 371.029	2902261.8	2902261.8	0.938	mg/L			15:09:44
2	Ag 328.068†	-2042.5	-170.8	-0.0012	mg/L	-0.0012	mg/L	15:09:49
2	Al 237.313†	-157.2	47.8	0.0043	mg/L	0.0043	mg/L	15:10:10
2	As 188.979†	5.3	-2.6	-0.0077	mg/L	-0.0077	mg/L	15:10:10
2	B 182.528†	-3.3	2.3	0.0015	mg/L	0.0015	mg/L	15:10:10
2	Ba 233.527†	-149.0	27.2	-0.0014	mg/L	-0.0014	mg/L	15:10:10
2	Be 313.107†	52.5	30.6	0.0000	mg/L	0.0000	mg/L	15:09:49
2	Ca 315.886†	3204.9	1309.3	-0.0053	mg/L	-0.0053	mg/L	15:09:49
2	Cd 228.802†	130.2	1.1	-0.0010	mg/L	-0.0010	mg/L	15:10:10
2	Co 228.616†	-161.4	16.5	-0.0019	mg/L	-0.0019	mg/L	15:10:10
2	Cr 267.716†	1746.8	-28.2	-0.0020	mg/L	-0.0020	mg/L	15:09:49
2	Cu 324.752†	2430.0	-79.9	-0.0025	mg/L	-0.0025	mg/L	15:09:49
2	Fe 234.349†	1709.4	528.0	0.0012	mg/L	0.0012	mg/L	15:10:10
2	Fe 238.204†	1739.8	1114.6	-0.0028	mg/L	-0.0028	mg/L	15:10:10
2	Mg 279.077†	675.1	86.4	-0.0233	mg/L	-0.0233	mg/L	15:09:49
2	Mn 257.610†	1871.1	701.0	-0.0027	mg/L	-0.0027	mg/L	15:09:49
2	Mo 202.031†	26.4	16.6	-0.0004	mg/L	-0.0004	mg/L	15:10:10
2	Ni 231.604†	24.3	-3.2	-0.0043	mg/L	-0.0043	mg/L	15:10:10
2	P 214.914†	64.5	24.8	0.0168	mg/L	0.0168	mg/L	15:10:10
2	Pb 220.353†	-138.5	13.8	-0.0014	mg/L	-0.0014	mg/L	15:10:10
2	Sb 206.836†	4.2	-2.6	-0.0033	mg/L	-0.0033	mg/L	15:10:10
2	Se 196.026†	-9.0	1.7	-0.0085	mg/L	-0.0085	mg/L	15:10:10
2	Sn 189.927†	96.7	0.0	-0.0020	mg/L	-0.0020	mg/L	15:10:10
2	Sr 407.771†	5804.2	343.9	-0.0003	mg/L	-0.0003	mg/L	15:09:44
2	Ti 337.279†	-2058.5	50.7	-0.0001	mg/L	-0.0001	mg/L	15:09:49
2	Tl 190.801†	-6.8	-2.2	-0.0054	mg/L	-0.0054	mg/L	15:10:10
2	V 292.402†	-1920.8	-126.5	-0.0011	mg/L	-0.0011	mg/L	15:09:49
2	Zn 213.857†	1052.3	470.2	0.0042	mg/L	0.0042	mg/L	15:10:10

Mean Data: BF60804-BLK1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2904988.7	0.939	mg/L	0.0012				0.13%
Ag 328.068†	-230.2	-0.0015	mg/L	0.00032	-0.0015	mg/L	0.00032	21.69%
Al 237.313†	59.0	0.0057	mg/L	0.00194	0.0057	mg/L	0.00194	33.98%

As 188.979†	-2.1	-0.0070 mg/L	0.00094	-0.0070 mg/L	0.00094	13.38%
B 182.528†	2.2	0.0012 mg/L	0.00035	0.0012 mg/L	0.00035	28.09%
Ba 233.527†	17.7	-0.0015 mg/L	0.00012	-0.0015 mg/L	0.00012	7.93%
Be 313.107†	74.5	0.0000 mg/L	0.00001	0.0000 mg/L	0.00001	39.83%
Ca 315.886†	1349.4	-0.0050 mg/L	0.00038	-0.0050 mg/L	0.00038	7.46%
Cd 228.802†	-0.6	-0.0011 mg/L	0.00007	-0.0011 mg/L	0.00007	6.23%
Co 228.616†	-5.6	-0.0024 mg/L	0.00078	-0.0024 mg/L	0.00078	32.45%
Cr 267.716†	23.5	-0.0017 mg/L	0.00050	-0.0017 mg/L	0.00050	29.87%
Cu 324.752†	-94.5	-0.0026 mg/L	0.00009	-0.0026 mg/L	0.00009	3.31%
Fe 234.349†	513.8	0.0009 mg/L	0.00039	0.0009 mg/L	0.00039	44.37%
Fe 238.204†	1107.1	-0.0028 mg/L	0.00009	-0.0028 mg/L	0.00009	3.25%
K 766.490†	44.0	0.0262 mg/L	0.00464	0.0262 mg/L	0.00464	17.70%
Li 670.784†	75.0	-0.0024 mg/L	0.00004	-0.0024 mg/L	0.00004	1.71%
Mg 279.077†	87.9	-0.0232 mg/L	0.00009	-0.0232 mg/L	0.00009	0.38%
Mn 257.610†	692.8	-0.0027 mg/L	0.00001	-0.0027 mg/L	0.00001	0.49%
Mo 202.031†	16.2	-0.0004 mg/L	0.00004	-0.0004 mg/L	0.00004	11.52%
Na 589.592	80.0	-0.2477 mg/L	0.00552	-0.2477 mg/L	0.00552	2.23%
Ni 231.604†	-3.4	-0.0043 mg/L	0.00001	-0.0043 mg/L	0.00001	0.18%
P 214.914†	16.8	0.0112 mg/L	0.00796	0.0112 mg/L	0.00796	71.07%
Pb 220.353†	9.0	-0.0020 mg/L	0.00079	-0.0020 mg/L	0.00079	40.36%
Sb 206.836†	1.4	-0.0014 mg/L	0.00275	-0.0014 mg/L	0.00275	196.30%
Se 196.026†	3.0	-0.0069 mg/L	0.00228	-0.0069 mg/L	0.00228	33.07%
Sn 189.927†	-6.1	-0.0035 mg/L	0.00225	-0.0035 mg/L	0.00225	63.39%
Sr 407.771†	315.0	-0.0003 mg/L	0.00000	-0.0003 mg/L	0.00000	0.69%
Ti 337.279†	50.9	-0.0001 mg/L	0.00000	-0.0001 mg/L	0.00000	0.31%
Tl 190.801†	-7.1	-0.0092 mg/L	0.00533	-0.0092 mg/L	0.00533	58.06%
V 292.402†	-74.5	-0.0009 mg/L	0.00033	-0.0009 mg/L	0.00033	37.28%
Zn 213.857†	458.0	0.0041 mg/L	0.00021	0.0041 mg/L	0.00021	5.15%

Sequence No.: 4
Sample ID: BF60904-BS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 10
Date Collected: 6/9/2006 3:11:47 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60904-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	44446.5	47133.6	25.59	mg/L	25.59	mg/L	15:13:23
1	Li 670.784†	17191.2	18309.5	0.5208	mg/L	0.5208	mg/L	15:13:23
1	Na 589.592	207814.2	205568.4	25.05	mg/L	25.05	mg/L	15:13:23
1	Y 371.029	2886078.5	2886078.5	0.933	mg/L			15:13:37
1	Ag 328.068†	62685.6	69228.8	0.2608	mg/L	0.2608	mg/L	15:13:43
1	Al 237.313†	18956.5	20543.5	2.509	mg/L	2.509	mg/L	15:13:43
1	As 188.979†	341.2	357.6	0.4831	mg/L	0.4831	mg/L	15:14:03
1	B 182.528†	219.3	241.1	0.4879	mg/L	0.4879	mg/L	15:14:03
1	Ba 233.527†	52190.4	56153.1	0.5001	mg/L	0.5001	mg/L	15:13:43
1	Be 313.107†	215185.8	230731.5	0.0514	mg/L	0.0514	mg/L	15:13:43
1	Ca 315.886†	729576.9	780261.7	5.135	mg/L	5.135	mg/L	15:13:37
1	Cd 228.802†	10324.2	10933.5	0.2579	mg/L	0.2579	mg/L	15:14:03
1	Co 228.616†	18604.2	20139.0	0.5014	mg/L	0.5014	mg/L	15:13:43
1	Cr 267.716†	71757.4	75058.9	0.5071	mg/L	0.5071	mg/L	15:13:43
1	Cu 324.752†	119938.3	125946.0	0.5206	mg/L	0.5206	mg/L	15:13:43
1	Fe 234.349†	125730.8	133534.0	2.581	mg/L	2.581	mg/L	15:13:43
1	Fe 238.204†	279605.9	299097.9	2.580	mg/L	2.580	mg/L	15:13:43
1	Mg 279.077†	113381.6	120952.5	4.958	mg/L	4.958	mg/L	15:13:43
1	Mn 257.610†	428244.8	457938.8	0.5148	mg/L	0.5148	mg/L	15:13:37
1	Mo 202.031†	6978.5	7471.9	0.5103	mg/L	0.5103	mg/L	15:14:03
1	Ni 231.604†	15469.2	16559.4	0.5098	mg/L	0.5098	mg/L	15:13:43
1	P 214.914†	6663.6	7101.9	4.986	mg/L	4.986	mg/L	15:14:03
1	Pb 220.353†	3942.7	4389.6	0.5073	mg/L	0.5073	mg/L	15:14:03
1	Sb 206.836†	990.5	1055.0	0.4948	mg/L	0.4948	mg/L	15:14:03
1	Se 196.026†	799.7	868.8	1.010	mg/L	1.010	mg/L	15:14:03
1	Sn 189.927†	1932.1	1968.8	0.5107	mg/L	0.5107	mg/L	15:14:03
1	Sr 407.771†	1024687.6	1092989.6	0.0521	mg/L	0.0521	mg/L	15:13:37
1	Ti 337.279†	324010.4	349702.1	0.4783	mg/L	0.4783	mg/L	15:13:43
1	Tl 190.801†	603.8	652.5	0.5086	mg/L	0.5086	mg/L	15:14:03
1	V 292.402†	101459.6	110723.2	0.5098	mg/L	0.5098	mg/L	15:13:43
1	Zn 213.857†	40198.1	42454.9	0.5143	mg/L	0.5143	mg/L	15:13:43
2	K 766.490†	44342.8	47430.3	25.75	mg/L	25.75	mg/L	15:13:28

2	Li 670.784†	17162.6	18436.7	0.5244 mg/L	0.5244 mg/L	15:13:28
2	Na 589.592	209786.2	207540.4	25.30 mg/L	25.30 mg/L	15:13:28
2	Y 371.029	2861533.5	2861533.5	0.925 mg/L		15:14:09
2	Ag 328.068†	62807.2	69937.1	0.2635 mg/L	0.2635 mg/L	15:14:15
2	Al 237.313†	19004.7	20770.0	2.536 mg/L	2.536 mg/L	15:14:15
2	As 188.979†	341.2	360.8	0.4875 mg/L	0.4875 mg/L	15:14:35
2	B 182.528†	224.6	248.8	0.5036 mg/L	0.5036 mg/L	15:14:35
2	Ba 233.527†	52483.5	56950.2	0.5072 mg/L	0.5072 mg/L	15:14:15
2	Be 313.107†	215751.9	233323.1	0.0519 mg/L	0.0519 mg/L	15:14:15
2	Ca 315.886†	724491.8	781472.6	5.143 mg/L	5.143 mg/L	15:14:09
2	Cd 228.802†	10316.9	11020.6	0.2600 mg/L	0.2600 mg/L	15:14:35
2	Co 228.616†	18684.3	20396.7	0.5079 mg/L	0.5079 mg/L	15:14:15
2	Cr 267.716†	71883.2	75855.0	0.5125 mg/L	0.5125 mg/L	15:14:15
2	Cu 324.752†	119631.5	126717.4	0.5238 mg/L	0.5238 mg/L	15:14:15
2	Fe 234.349†	125763.9	134726.3	2.604 mg/L	2.604 mg/L	15:14:15
2	Fe 238.204†	280375.1	302501.7	2.609 mg/L	2.609 mg/L	15:14:15
2	Mg 279.077†	113868.5	122522.0	5.022 mg/L	5.022 mg/L	15:14:15
2	Mn 257.610†	425338.4	458734.4	0.5157 mg/L	0.5157 mg/L	15:14:09
2	Mo 202.031†	6952.7	7508.2	0.5127 mg/L	0.5127 mg/L	15:14:35
2	Ni 231.604†	15543.7	16782.3	0.5167 mg/L	0.5167 mg/L	15:14:15
2	P 214.914†	6632.0	7128.9	5.005 mg/L	5.005 mg/L	15:14:35
2	Pb 220.353†	3910.6	4391.1	0.5075 mg/L	0.5075 mg/L	15:14:35
2	Sb 206.836†	984.6	1057.7	0.4960 mg/L	0.4960 mg/L	15:14:35
2	Se 196.026†	797.3	873.6	1.015 mg/L	1.015 mg/L	15:14:35
2	Sn 189.927†	1941.6	1996.9	0.5180 mg/L	0.5180 mg/L	15:14:35
2	Sr 407.771†	1017003.6	1094104.3	0.0521 mg/L	0.0521 mg/L	15:14:09
2	Ti 337.279†	324601.8	353322.0	0.4833 mg/L	0.4833 mg/L	15:14:15
2	Tl 190.801†	607.2	661.7	0.5157 mg/L	0.5157 mg/L	15:14:35
2	V 292.402†	101645.0	111856.9	0.5149 mg/L	0.5149 mg/L	15:14:15
2	Zn 213.857†	40168.8	42793.0	0.5184 mg/L	0.5184 mg/L	15:14:15

Mean Data: BF60904-BS1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2873806.0	0.929	mg/L	0.0056				0.60%
Ag 328.068†	69583.0	0.2621	mg/L	0.00189	0.2621	mg/L	0.00189	0.72%
Al 237.313†	20656.8	2.523	mg/L	0.0196	2.523	mg/L	0.0196	0.78%
As 188.979†	359.2	0.4853	mg/L	0.00311	0.4853	mg/L	0.00311	0.64%
B 182.528†	244.9	0.4957	mg/L	0.01114	0.4957	mg/L	0.01114	2.25%
Ba 233.527†	56551.6	0.5037	mg/L	0.00504	0.5037	mg/L	0.00504	1.00%
Be 313.107†	232027.3	0.0516	mg/L	0.00041	0.0516	mg/L	0.00041	0.79%
Ca 315.886†	780867.2	5.139	mg/L	0.0057	5.139	mg/L	0.0057	0.11%
Cd 228.802†	10977.0	0.2590	mg/L	0.00147	0.2590	mg/L	0.00147	0.57%
Co 228.616†	20267.9	0.5046	mg/L	0.00456	0.5046	mg/L	0.00456	0.90%
Cr 267.716†	75457.0	0.5098	mg/L	0.00382	0.5098	mg/L	0.00382	0.75%
Cu 324.752†	126331.7	0.5222	mg/L	0.00227	0.5222	mg/L	0.00227	0.43%
Fe 234.349†	134130.2	2.592	mg/L	0.0163	2.592	mg/L	0.0163	0.63%
Fe 238.204†	300799.8	2.594	mg/L	0.0209	2.594	mg/L	0.0209	0.80%
K 766.490†	47282.0	25.67	mg/L	0.114	25.67	mg/L	0.114	0.44%
Li 670.784†	18373.1	0.5226	mg/L	0.00258	0.5226	mg/L	0.00258	0.49%
Mg 279.077†	121737.2	4.990	mg/L	0.0457	4.990	mg/L	0.0457	0.92%
Mn 257.610†	458336.6	0.5153	mg/L	0.00064	0.5153	mg/L	0.00064	0.12%
Mo 202.031†	7490.1	0.5115	mg/L	0.00176	0.5115	mg/L	0.00176	0.34%
Na 589.592	206554.4	25.18	mg/L	0.172	25.18	mg/L	0.172	0.68%
Ni 231.604†	16670.9	0.5132	mg/L	0.00489	0.5132	mg/L	0.00489	0.95%
P 214.914†	7115.4	4.995	mg/L	0.0134	4.995	mg/L	0.0134	0.27%
Pb 220.353†	4390.3	0.5074	mg/L	0.00013	0.5074	mg/L	0.00013	0.03%
Sb 206.836†	1056.3	0.4954	mg/L	0.00085	0.4954	mg/L	0.00085	0.17%
Se 196.026†	871.2	1.013	mg/L	0.0039	1.013	mg/L	0.0039	0.39%
Sn 189.927†	1982.8	0.5143	mg/L	0.00516	0.5143	mg/L	0.00516	1.00%
Sr 407.771†	1093547.0	0.0521	mg/L	0.00004	0.0521	mg/L	0.00004	0.07%
Ti 337.279†	351512.0	0.4808	mg/L	0.00350	0.4808	mg/L	0.00350	0.73%
Tl 190.801†	657.1	0.5121	mg/L	0.00502	0.5121	mg/L	0.00502	0.98%
V 292.402†	111290.1	0.5124	mg/L	0.00366	0.5124	mg/L	0.00366	0.71%
Zn 213.857†	42624.0	0.5164	mg/L	0.00289	0.5164	mg/L	0.00289	0.56%

Matrix Recovery Check: BF60904-BS1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	25.03	25.67	0.114	mg/L	102.6

Li 670.784	0.4976	0.5226	0.003	mg/L	105.0
Na 589.592	24.75	25.18	0.172	mg/L	101.7
Ag 328.068	0.2485	0.2621	0.002	mg/L	105.4
Al 237.313	2.506	2.523	0.020	mg/L	100.7
As 188.979	0.4930	0.4853	0.003	mg/L	98.5
B 182.528	0.5012	0.4957	0.011	mg/L	98.9
Ba 233.527	0.4985	0.5037	0.005	mg/L	101.0
Be 313.107	0.0500	0.0516	0.000	mg/L	103.4
Ca 315.886	4.995	5.139	0.006	mg/L	102.9
Cd 228.802	0.2489	0.2590	0.001	mg/L	104.0
Co 228.616	0.4976	0.5046	0.005	mg/L	101.4
Cr 267.716	0.4983	0.5098	0.004	mg/L	102.3
Cu 324.752	0.4974	0.5222	0.002	mg/L	104.9
Fe 234.349	2.501	2.592	0.016	mg/L	103.7
Fe 238.204	2.497	2.594	0.021	mg/L	103.9
Mg 279.077	4.977	4.990	0.046	mg/L	100.3
Mn 257.610	0.4973	0.5153	0.001	mg/L	103.6
Mo 202.031	0.4996	0.5115	0.002	mg/L	102.4
Ni 231.604	0.4957	0.5132	0.005	mg/L	103.5
P 214.914	5.011	4.995	0.013	mg/L	99.7
Pb 220.353	0.4980	0.5074	0.000	mg/L	101.9
Sb 206.836	0.4986	0.4954	0.001	mg/L	99.4
Se 196.026	0.9931	1.013	0.004	mg/L	102.0
Sn 189.927	0.4965	0.5143	0.005	mg/L	103.6
Sr 407.771	0.0497	0.0521	0.000	mg/L	104.8
Ti 337.279	0.4999	0.4808	0.004	mg/L	96.2
Tl 190.801	0.4908	0.5121	0.005	mg/L	104.3
V 292.402	0.4991	0.5124	0.004	mg/L	102.6
Zn 213.857	0.5041	0.5164	0.003	mg/L	102.5

Sequence No.: 5
Sample ID: BF60904-BSD1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 11
Date Collected: 6/9/2006 3:16:13 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60904-BSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	43968.2	46853.8	25.44	mg/L	25.44	mg/L	15:17:47
1	Li 670.784†	17060.8	18260.1	0.5194	mg/L	0.5194	mg/L	15:17:47
1	Na 589.592	203721.8	201476.0	24.55	mg/L	24.55	mg/L	15:17:47
1	Y 371.029	2871884.5	2871884.5	0.928	mg/L			15:18:01
1	Ag 328.068†	62021.5	68845.5	0.2594	mg/L	0.2594	mg/L	15:18:07
1	Al 237.313†	18785.6	20459.9	2.499	mg/L	2.499	mg/L	15:18:07
1	As 188.979†	338.2	356.2	0.4812	mg/L	0.4812	mg/L	15:18:27
1	B 182.528†	218.3	241.2	0.4882	mg/L	0.4882	mg/L	15:18:27
1	Ba 233.527†	52095.5	56327.4	0.5017	mg/L	0.5017	mg/L	15:18:07
1	Be 313.107†	213817.3	230397.2	0.0513	mg/L	0.0513	mg/L	15:18:07
1	Ca 315.886†	718531.0	772224.7	5.082	mg/L	5.082	mg/L	15:18:01
1	Cd 228.802†	10228.0	10884.6	0.2568	mg/L	0.2568	mg/L	15:18:27
1	Co 228.616†	18512.8	20139.0	0.5014	mg/L	0.5014	mg/L	15:18:07
1	Cr 267.716†	71455.3	75113.7	0.5075	mg/L	0.5075	mg/L	15:18:07
1	Cu 324.752†	118837.6	125395.5	0.5183	mg/L	0.5183	mg/L	15:18:07
1	Fe 234.349†	124460.2	132831.1	2.567	mg/L	2.567	mg/L	15:18:07
1	Fe 238.204†	278155.1	299016.3	2.579	mg/L	2.579	mg/L	15:18:07
1	Mg 279.077†	113024.7	121168.8	4.967	mg/L	4.967	mg/L	15:18:07
1	Mn 257.610†	422895.6	454443.8	0.5109	mg/L	0.5109	mg/L	15:18:01
1	Mo 202.031†	6921.7	7447.7	0.5086	mg/L	0.5086	mg/L	15:18:27
1	Ni 231.604†	15310.8	16470.7	0.5070	mg/L	0.5070	mg/L	15:18:07
1	P 214.914†	6570.0	7036.2	4.940	mg/L	4.940	mg/L	15:18:27
1	Pb 220.353†	3872.6	4334.9	0.5010	mg/L	0.5010	mg/L	15:18:27
1	Sb 206.836†	970.1	1038.2	0.4867	mg/L	0.4867	mg/L	15:18:27
1	Se 196.026†	785.3	857.5	0.9966	mg/L	0.9966	mg/L	15:18:27
1	Sn 189.927†	1921.3	1967.4	0.5103	mg/L	0.5103	mg/L	15:18:27
1	Sr 407.771†	1010035.8	1082630.9	0.0516	mg/L	0.0516	mg/L	15:18:01
1	Ti 337.279†	323416.4	350779.2	0.4798	mg/L	0.4798	mg/L	15:18:07
1	Tl 190.801†	600.6	652.2	0.5082	mg/L	0.5082	mg/L	15:18:27
1	V 292.402†	101037.4	110805.9	0.5101	mg/L	0.5101	mg/L	15:18:07
1	Zn 213.857†	39627.2	42052.7	0.5094	mg/L	0.5094	mg/L	15:18:07

2	K 766.490†	43677.9	46612.2	25.31 mg/L	25.31 mg/L	15:17:52
2	Li 670.784†	16868.1	18080.0	0.5142 mg/L	0.5142 mg/L	15:17:52
2	Na 589.592	202662.8	200417.0	24.42 mg/L	24.42 mg/L	15:17:52
2	Y 371.029	2867536.8	2867536.8	0.927 mg/L		15:18:33
2	Ag 328.068†	61665.1	68562.1	0.2583 mg/L	0.2583 mg/L	15:18:39
2	Al 237.313†	18638.7	20332.1	2.483 mg/L	2.483 mg/L	15:18:39
2	As 188.979†	344.5	363.6	0.4913 mg/L	0.4913 mg/L	15:18:59
2	B 182.528†	222.9	246.4	0.4988 mg/L	0.4988 mg/L	15:18:59
2	Ba 233.527†	51650.6	55932.4	0.4981 mg/L	0.4981 mg/L	15:18:39
2	Be 313.107†	212006.2	228791.9	0.0509 mg/L	0.0509 mg/L	15:18:39
2	Ca 315.886†	719970.6	774952.5	5.100 mg/L	5.100 mg/L	15:18:33
2	Cd 228.802†	10305.2	10984.7	0.2591 mg/L	0.2591 mg/L	15:18:59
2	Co 228.616†	18372.9	20018.3	0.4984 mg/L	0.4984 mg/L	15:18:39
2	Cr 267.716†	70608.1	74316.0	0.5021 mg/L	0.5021 mg/L	15:18:39
2	Cu 324.752†	117651.1	124309.2	0.5138 mg/L	0.5138 mg/L	15:18:39
2	Fe 234.349†	123412.0	131903.1	2.549 mg/L	2.549 mg/L	15:18:39
2	Fe 238.204†	275699.6	296820.6	2.560 mg/L	2.560 mg/L	15:18:39
2	Mg 279.077†	111802.9	120034.8	4.920 mg/L	4.920 mg/L	15:18:39
2	Mn 257.610†	423477.2	455762.5	0.5124 mg/L	0.5124 mg/L	15:18:33
2	Mo 202.031†	6947.7	7487.1	0.5113 mg/L	0.5113 mg/L	15:18:59
2	Ni 231.604†	14969.8	16127.7	0.4964 mg/L	0.4964 mg/L	15:18:39
2	P 214.914†	6618.0	7098.8	4.984 mg/L	4.984 mg/L	15:18:59
2	Pb 220.353†	3908.4	4379.9	0.5062 mg/L	0.5062 mg/L	15:18:59
2	Sb 206.836†	983.7	1054.5	0.4947 mg/L	0.4947 mg/L	15:18:59
2	Se 196.026†	790.9	864.9	1.005 mg/L	1.005 mg/L	15:18:59
2	Sn 189.927†	1929.5	1979.3	0.5134 mg/L	0.5134 mg/L	15:18:59
2	Sr 407.771†	1011073.7	1085401.4	0.0517 mg/L	0.0517 mg/L	15:18:33
2	Ti 337.279†	320228.7	347867.2	0.4758 mg/L	0.4758 mg/L	15:18:39
2	Tl 190.801†	606.7	659.8	0.5143 mg/L	0.5143 mg/L	15:18:59
2	V 292.402†	99747.2	109578.5	0.5046 mg/L	0.5046 mg/L	15:18:39
2	Zn 213.857†	39359.4	41828.4	0.5067 mg/L	0.5067 mg/L	15:18:39

Mean Data: BF60904-BSD1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2869710.7	0.927	mg/L	0.0010				0.11%
Ag 328.068†	68703.8	0.2588	mg/L	0.00076	0.2588	mg/L	0.00076	0.29%
Al 237.313†	20396.0	2.491	mg/L	0.0110	2.491	mg/L	0.0110	0.44%
As 188.979†	359.9	0.4862	mg/L	0.00713	0.4862	mg/L	0.00713	1.47%
B 182.528†	243.8	0.4935	mg/L	0.00755	0.4935	mg/L	0.00755	1.53%
Ba 233.527†	56129.9	0.4999	mg/L	0.00249	0.4999	mg/L	0.00249	0.50%
Be 313.107†	229594.5	0.0511	mg/L	0.00025	0.0511	mg/L	0.00025	0.49%
Ca 315.886†	773588.6	5.091	mg/L	0.0127	5.091	mg/L	0.0127	0.25%
Cd 228.802†	10934.6	0.2579	mg/L	0.00162	0.2579	mg/L	0.00162	0.63%
Co 228.616†	20078.7	0.4999	mg/L	0.00213	0.4999	mg/L	0.00213	0.43%
Cr 267.716†	74714.8	0.5048	mg/L	0.00383	0.5048	mg/L	0.00383	0.76%
Cu 324.752†	124852.3	0.5160	mg/L	0.00319	0.5160	mg/L	0.00319	0.62%
Fe 234.349†	132367.1	2.558	mg/L	0.0127	2.558	mg/L	0.0127	0.50%
Fe 238.204†	297918.4	2.569	mg/L	0.0135	2.569	mg/L	0.0135	0.52%
K 766.490†	46733.0	25.37	mg/L	0.093	25.37	mg/L	0.093	0.37%
Li 670.784†	18170.0	0.5168	mg/L	0.00365	0.5168	mg/L	0.00365	0.71%
Mg 279.077†	120601.8	4.943	mg/L	0.0330	4.943	mg/L	0.0330	0.67%
Mn 257.610†	455103.2	0.5116	mg/L	0.00105	0.5116	mg/L	0.00105	0.21%
Mo 202.031†	7467.4	0.5100	mg/L	0.00190	0.5100	mg/L	0.00190	0.37%
Na 589.592	200946.5	24.48	mg/L	0.092	24.48	mg/L	0.092	0.38%
Ni 231.604†	16299.2	0.5017	mg/L	0.00752	0.5017	mg/L	0.00752	1.50%
P 214.914†	7067.5	4.962	mg/L	0.0311	4.962	mg/L	0.0311	0.63%
Pb 220.353†	4357.4	0.5036	mg/L	0.00369	0.5036	mg/L	0.00369	0.73%
Sb 206.836†	1046.4	0.4907	mg/L	0.00560	0.4907	mg/L	0.00560	1.14%
Se 196.026†	861.2	1.001	mg/L	0.0061	1.001	mg/L	0.0061	0.61%
Sn 189.927†	1973.4	0.5119	mg/L	0.00219	0.5119	mg/L	0.00219	0.43%
Sr 407.771†	1084016.1	0.0516	mg/L	0.00009	0.0516	mg/L	0.00009	0.18%
Ti 337.279†	349323.2	0.4778	mg/L	0.00282	0.4778	mg/L	0.00282	0.59%
Tl 190.801†	656.0	0.5112	mg/L	0.00426	0.5112	mg/L	0.00426	0.83%
V 292.402†	110192.2	0.5073	mg/L	0.00390	0.5073	mg/L	0.00390	0.77%
Zn 213.857†	41940.6	0.5081	mg/L	0.00189	0.5081	mg/L	0.00189	0.37%

Duplicate Check: BF60904-BSD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)

K 766.490	25.67	25.37	0.093	mg/L	1.2
Li 670.784	0.5226	0.5168	0.004	mg/L	1.1
Na 589.592	25.18	24.48	0.092	mg/L	2.8
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.2621	0.2588	0.001	mg/L	1.3
Al 237.313	2.523	2.491	0.011	mg/L	1.3
As 188.979	0.4853	0.4862	0.007	mg/L	0.2
B 182.528	0.4957	0.4935	0.008	mg/L	0.5
Ba 233.527	0.5037	0.4999	0.002	mg/L	0.8
Be 313.107	0.0516	0.0511	0.000	mg/L	1.1
Ca 315.886	5.139	5.091	0.013	mg/L	0.9
Cd 228.802	0.2590	0.2579	0.002	mg/L	0.4
Co 228.616	0.5046	0.4999	0.002	mg/L	0.9
Cr 267.716	0.5098	0.5048	0.004	mg/L	1.0
Cu 324.752	0.5222	0.5160	0.003	mg/L	1.2
Fe 234.349	2.592	2.558	0.013	mg/L	1.3
Fe 238.204	2.594	2.569	0.013	mg/L	1.0
Mg 279.077	4.990	4.943	0.033	mg/L	0.9
Mn 257.610	0.5153	0.5116	0.001	mg/L	0.7
Mo 202.031	0.5115	0.5100	0.002	mg/L	0.3
Ni 231.604	0.5132	0.5017	0.008	mg/L	2.3
P 214.914	4.995	4.962	0.031	mg/L	0.7
Pb 220.353	0.5074	0.5036	0.004	mg/L	0.8
Sb 206.836	0.4954	0.4907	0.006	mg/L	1.0
Se 196.026	1.013	1.001	0.006	mg/L	1.2
Sn 189.927	0.5143	0.5119	0.002	mg/L	0.5
Sr 407.771	0.0521	0.0516	0.000	mg/L	0.9
Ti 337.279	0.4808	0.4778	0.003	mg/L	0.6
Tl 190.801	0.5121	0.5112	0.004	mg/L	0.2
V 292.402	0.5124	0.5073	0.004	mg/L	1.0
Zn 213.857	0.5164	0.5081	0.002	mg/L	1.6

Sequence No.: 6
Sample ID: 0606088-01
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 12
Date Collected: 6/9/2006 3:20:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606088-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	6273.6	6270.0	3.406	mg/L	3.406	mg/L	15:22:11
1	Li 670.784†	225.1	118.3	-0.0012	mg/L	-0.0012	mg/L	15:22:11
1	Na 589.592	235434.2	233188.3	28.45	mg/L	28.45	mg/L	15:22:11
1	Y 371.029	2855708.6	2855708.6	0.923	mg/L			15:22:32
1	Ag 328.068†	-2037.4	-200.8	-0.0013	mg/L	-0.0013	mg/L	15:22:38
1	Al 237.313†	2.6	218.2	0.0165	mg/L	0.0165	mg/L	15:22:38
1	As 188.979†	3.1	-4.9	-0.0108	mg/L	-0.0108	mg/L	15:22:58
1	B 182.528†	56.9	67.6	0.1344	mg/L	0.1344	mg/L	15:22:58
1	Ba 233.527†	1531.3	1845.7	0.0148	mg/L	0.0148	mg/L	15:22:58
1	Be 313.107†	-204.4	-246.9	-0.0001	mg/L	-0.0001	mg/L	15:22:38
1	Ca 315.886†	7251788.9	7857130.5	51.81	mg/L	51.81	mg/L	15:22:26
1	Cd 228.802†	134.5	8.0	-0.0007	mg/L	-0.0007	mg/L	15:22:58
1	Co 228.616†	578.7	815.7	0.0182	mg/L	0.0182	mg/L	15:22:58
1	Cr 267.716†	1985.3	260.7	-0.0016	mg/L	-0.0016	mg/L	15:22:38
1	Cu 324.752†	2488.1	25.4	-0.0020	mg/L	-0.0020	mg/L	15:22:38
1	Fe 234.349†	17422.9	17587.5	0.3327	mg/L	0.3327	mg/L	15:22:38
1	Fe 238.204†	35256.4	37469.0	0.3122	mg/L	0.3122	mg/L	15:22:38
1	Mg 279.077†	256456.9	277305.6	11.42	mg/L	11.42	mg/L	15:22:32
1	Mn 257.610†	2012483.8	2179766.3	2.463	mg/L	2.463	mg/L	15:22:32
1	Mo 202.031†	133.9	133.5	0.0077	mg/L	0.0077	mg/L	15:22:58
1	Ni 231.604†	123.4	104.6	-0.0009	mg/L	-0.0009	mg/L	15:22:58
1	P 214.914†	107.5	72.5	0.0504	mg/L	0.0504	mg/L	15:22:58
1	Pb 220.353†	-42.6	115.4	0.0104	mg/L	0.0104	mg/L	15:22:58
1	Sb 206.836†	-1.5	-8.8	-0.0064	mg/L	-0.0064	mg/L	15:22:58
1	Se 196.026†	-13.0	-2.9	-0.0138	mg/L	-0.0138	mg/L	15:22:58
1	Sn 189.927†	137.9	46.3	0.0101	mg/L	0.0101	mg/L	15:22:58
1	Sr 407.771†	3998587.0	4327685.2	0.2071	mg/L	0.2071	mg/L	15:22:26
1	Ti 337.279†	-1383.5	746.4	0.0008	mg/L	0.0008	mg/L	15:22:38
1	Tl 190.801†	-17.2	-13.7	0.0278	mg/L	0.0278	mg/L	15:22:58

2	Tl 190.801†	-7.0	-2.5	-0.0056 mg/L	-0.0056 mg/L	15:37:06
2	V 292.402†	-1840.8	-44.2	-0.0008 mg/L	-0.0008 mg/L	15:36:46
2	Zn 213.857†	5485.9	5207.1	0.0621 mg/L	0.0621 mg/L	15:37:06

Mean Data: 0606113-18

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2899417.9	0.937	mg/L	0.0008				0.08%
Ag 328.068†	-187.5	-0.0013	mg/L	0.00069	-0.0013	mg/L	0.00069	53.08%
Al 237.313†	85.6	0.0089	mg/L	0.00044	0.0089	mg/L	0.00044	4.93%
As 188.979†	-0.2	-0.0045	mg/L	0.00403	-0.0045	mg/L	0.00403	89.43%
B 182.528†	3.8	0.0044	mg/L	0.00092	0.0044	mg/L	0.00092	21.13%
Ba 233.527†	7.1	-0.0016	mg/L	0.00016	-0.0016	mg/L	0.00016	10.14%
Be 313.107†	41.3	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	58.36%
Ca 315.886†	3738.7	0.0107	mg/L	0.00145	0.0107	mg/L	0.00145	13.57%
Cd 228.802†	-10.7	-0.0013	mg/L	0.00014	-0.0013	mg/L	0.00014	10.18%
Co 228.616†	-6.0	-0.0024	mg/L	0.00016	-0.0024	mg/L	0.00016	6.81%
Cr 267.716†	134.3	-0.0009	mg/L	0.00029	-0.0009	mg/L	0.00029	32.19%
Cu 324.752†	437.2	-0.0004	mg/L	0.00029	-0.0004	mg/L	0.00029	75.33%
Fe 234.349†	1203.1	0.0143	mg/L	0.00098	0.0143	mg/L	0.00098	6.83%
Fe 238.204†	2695.1	0.0109	mg/L	0.00005	0.0109	mg/L	0.00005	0.48%
K 766.490†	409.6	0.2247	mg/L	0.02528	0.2247	mg/L	0.02528	11.25%
Li 670.784†	92.2	-0.0019	mg/L	0.00069	-0.0019	mg/L	0.00069	36.13%
Mg 279.077†	23.2	-0.0259	mg/L	0.00002	-0.0259	mg/L	0.00002	0.08%
Mn 257.610†	2024.7	-0.0012	mg/L	0.00000	-0.0012	mg/L	0.00000	0.09%
Mo 202.031†	13.2	-0.0006	mg/L	0.00021	-0.0006	mg/L	0.00021	35.29%
Na 589.592	3479.8	0.1709	mg/L	0.00458	0.1709	mg/L	0.00458	2.68%
Ni 231.604†	-7.2	-0.0044	mg/L	0.00002	-0.0044	mg/L	0.00002	0.50%
P 214.914†	37.7	0.0259	mg/L	0.00118	0.0259	mg/L	0.00118	4.54%
Pb 220.353†	8.4	-0.0020	mg/L	0.00137	-0.0020	mg/L	0.00137	67.02%
Sb 206.836†	-1.2	-0.0027	mg/L	0.00164	-0.0027	mg/L	0.00164	61.28%
Se 196.026†	6.7	-0.0026	mg/L	0.00363	-0.0026	mg/L	0.00363	141.35%
Sn 189.927†	-25.4	-0.0086	mg/L	0.00059	-0.0086	mg/L	0.00059	6.92%
Sr 407.771†	1289.4	-0.0002	mg/L	0.00000	-0.0002	mg/L	0.00000	0.10%
Ti 337.279†	101.5	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	103.12%
Tl 190.801†	-6.9	-0.0090	mg/L	0.00484	-0.0090	mg/L	0.00484	53.71%
V 292.402†	-4.0	-0.0006	mg/L	0.00026	-0.0006	mg/L	0.00026	44.02%
Zn 213.857†	5237.1	0.0624	mg/L	0.00052	0.0624	mg/L	0.00052	0.83%

Sequence No.: 10
Sample ID: 0606122-01
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 16
Date Collected: 6/9/2006 3:38:44 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606122-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	141708.5	159623.3	86.66	mg/L	86.66	mg/L	15:40:29
1	Li 670.784†	722.4	690.7	0.0153	mg/L	0.0153	mg/L	15:40:29
1	Na 589.592	3592467.3	3590221.5	441.8	mg/L	441.8	mg/L	15:40:23
1	Y 371.029	2738494.7	2738494.7	0.885	mg/L			15:40:59
1	Ag 328.068†	-1986.0	-237.2	-0.0015	mg/L	-0.0015	mg/L	15:41:04
1	Al 237.313†	293.0	546.5	0.0609	mg/L	0.0609	mg/L	15:41:25
1	As 188.979†	6.3	-1.2	-0.0058	mg/L	-0.0058	mg/L	15:41:25
1	B 182.528†	478.9	547.2	1.112	mg/L	1.112	mg/L	15:41:04
1	Ba 233.527†	4446.6	5211.4	0.0449	mg/L	0.0449	mg/L	15:41:25
1	Be 313.107†	-975.7	-1128.1	-0.0003	mg/L	-0.0003	mg/L	15:41:04
1	Ca 315.886†	26438748.3	29877727.4	197.1	mg/L	197.1	mg/L	15:40:53
1	Cd 228.802†	141.9	22.6	-0.0005	mg/L	-0.0005	mg/L	15:41:25
1	Co 228.616†	-63.3	117.0	0.0006	mg/L	0.0006	mg/L	15:41:25
1	Cr 267.716†	2579.7	1024.5	0.0045	mg/L	0.0045	mg/L	15:41:25
1	Cu 324.752†	8638.1	7091.3	0.0273	mg/L	0.0273	mg/L	15:41:04
1	Fe 234.349†	21071.9	22519.6	0.4281	mg/L	0.4281	mg/L	15:41:04
1	Fe 238.204†	42287.4	47050.5	0.3952	mg/L	0.3952	mg/L	15:41:04
1	Mg 279.077†	524498.7	592130.3	24.36	mg/L	24.36	mg/L	15:40:59
1	Mn 257.610†	738932.3	833812.4	0.9401	mg/L	0.9401	mg/L	15:40:59
1	Mo 202.031†	374.6	411.8	0.0267	mg/L	0.0267	mg/L	15:41:25
1	Ni 231.604†	1213.2	1341.9	0.0374	mg/L	0.0374	mg/L	15:41:25

Ni 231.604†	16.3	-0.0037 mg/L	0.00008	-0.0037 mg/L	0.00008	2.28%
P 214.914†	358.4	0.2510 mg/L	0.00013	0.2510 mg/L	0.00013	0.05%
Pb 220.353†	-2.7	-0.0033 mg/L	0.00161	-0.0033 mg/L	0.00161	49.09%
Sb 206.836†	2.6	-0.0015 mg/L	0.00661	-0.0015 mg/L	0.00661	432.83%
Se 196.026†	-2.5	-0.0134 mg/L	0.00143	-0.0134 mg/L	0.00143	10.64%
Sn 189.927†	45.7	0.0099 mg/L	0.00309	0.0099 mg/L	0.00309	31.14%
Sr 407.771†	1746891.9	0.0834 mg/L	0.00004	0.0834 mg/L	0.00004	0.05%
Ti 337.279†	-277.6	-0.0006 mg/L	0.00002	-0.0006 mg/L	0.00002	3.92%
Tl 190.801†	33.9	0.0234 mg/L	0.00021	0.0234 mg/L	0.00021	0.91%
V 292.402†	-178.8	-0.0012 mg/L	0.00019	-0.0012 mg/L	0.00019	15.38%
Zn 213.857†	18525.6	0.2247 mg/L	0.00005	0.2247 mg/L	0.00005	0.02%

Sequence No.: 13
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/9/2006 3:53:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	43716.9	46916.6	25.47	mg/L	25.47	mg/L	15:54:35
1	Li 670.784†	16675.2	17971.8	0.5111	mg/L	0.5111	mg/L	15:54:35
1	Na 589.592	204868.7	202622.9	24.69	mg/L	24.69	mg/L	15:54:35
1	Y 371.029	2851689.7	2851689.7	0.921	mg/L			15:54:49
1	Ag 328.068†	59446.4	66524.1	0.2506	mg/L	0.2506	mg/L	15:54:55
1	Al 237.313†	18461.1	20251.1	2.473	mg/L	2.473	mg/L	15:54:55
1	As 188.979†	335.1	355.5	0.4802	mg/L	0.4802	mg/L	15:55:15
1	B 182.528†	215.8	240.1	0.4859	mg/L	0.4859	mg/L	15:55:15
1	Ba 233.527†	51121.1	55667.5	0.4958	mg/L	0.4958	mg/L	15:54:55
1	Be 313.107†	203568.0	220905.5	0.0491	mg/L	0.0491	mg/L	15:54:55
1	Ca 315.886†	692937.6	749932.0	4.935	mg/L	4.935	mg/L	15:54:49
1	Cd 228.802†	9824.7	10524.9	0.2482	mg/L	0.2482	mg/L	15:55:15
1	Co 228.616†	18040.8	19768.2	0.4921	mg/L	0.4921	mg/L	15:54:55
1	Cr 267.716†	68917.4	72904.6	0.4925	mg/L	0.4925	mg/L	15:54:55
1	Cu 324.752†	114262.0	121336.6	0.5014	mg/L	0.5014	mg/L	15:54:55
1	Fe 234.349†	119298.4	128178.8	2.477	mg/L	2.477	mg/L	15:54:55
1	Fe 238.204†	266212.6	288177.9	2.485	mg/L	2.485	mg/L	15:54:55
1	Mg 279.077†	111307.2	120167.3	4.925	mg/L	4.925	mg/L	15:54:55
1	Mn 257.610†	410583.4	444308.9	0.4994	mg/L	0.4994	mg/L	15:54:49
1	Mo 202.031†	6694.6	7254.0	0.4953	mg/L	0.4953	mg/L	15:55:15
1	Ni 231.604†	14676.7	15899.4	0.4893	mg/L	0.4893	mg/L	15:54:55
1	P 214.914†	6473.6	6981.8	4.901	mg/L	4.901	mg/L	15:55:15
1	Pb 220.353†	3803.9	4289.9	0.4958	mg/L	0.4958	mg/L	15:55:15
1	Sb 206.836†	963.0	1038.0	0.4869	mg/L	0.4869	mg/L	15:55:15
1	Se 196.026†	773.9	851.2	0.9892	mg/L	0.9892	mg/L	15:55:15
1	Sn 189.927†	1847.5	1901.9	0.4933	mg/L	0.4933	mg/L	15:55:15
1	Sr 407.771†	980057.8	1057804.3	0.0504	mg/L	0.0504	mg/L	15:54:49
1	Ti 337.279†	331568.5	362094.8	0.4953	mg/L	0.4953	mg/L	15:54:55
1	Tl 190.801†	582.7	637.4	0.4966	mg/L	0.4966	mg/L	15:55:15
1	V 292.402†	98406.9	108722.1	0.5004	mg/L	0.5004	mg/L	15:54:55
1	Zn 213.857†	37968.0	40554.4	0.4912	mg/L	0.4912	mg/L	15:54:55
2	K 766.490†	43739.4	46692.5	25.35	mg/L	25.35	mg/L	15:54:40
2	Li 670.784†	16613.1	17810.0	0.5065	mg/L	0.5065	mg/L	15:54:40
2	Na 589.592	207683.4	205437.6	25.04	mg/L	25.04	mg/L	15:54:40
2	Y 371.029	2866699.8	2866699.8	0.926	mg/L			15:55:21
2	Ag 328.068†	59138.0	65853.3	0.2481	mg/L	0.2481	mg/L	15:55:27
2	Al 237.313†	18409.9	20090.9	2.454	mg/L	2.454	mg/L	15:55:27
2	As 188.979†	335.5	354.0	0.4781	mg/L	0.4781	mg/L	15:55:47
2	B 182.528†	215.1	238.2	0.4820	mg/L	0.4820	mg/L	15:55:47
2	Ba 233.527†	50840.2	55073.8	0.4905	mg/L	0.4905	mg/L	15:55:27
2	Be 313.107†	201987.4	218042.3	0.0485	mg/L	0.0485	mg/L	15:55:27
2	Ca 315.886†	698348.6	751836.0	4.948	mg/L	4.948	mg/L	15:55:21
2	Cd 228.802†	9883.5	10532.5	0.2484	mg/L	0.2484	mg/L	15:55:47
2	Co 228.616†	18031.0	19655.0	0.4893	mg/L	0.4893	mg/L	15:55:27
2	Cr 267.716†	68576.6	72145.1	0.4873	mg/L	0.4873	mg/L	15:55:27
2	Cu 324.752†	114067.5	120477.3	0.4979	mg/L	0.4979	mg/L	15:55:27
2	Fe 234.349†	118546.5	126689.2	2.448	mg/L	2.448	mg/L	15:55:27
2	Fe 238.204†	265021.0	285378.7	2.461	mg/L	2.461	mg/L	15:55:27
2	Mg 279.077†	110736.9	118919.2	4.874	mg/L	4.874	mg/L	15:55:27

2	Mn 257.610†	413110.1	444703.6	0.4998 mg/L	0.4998 mg/L	15:55:21
2	Mo 202.031†	6782.4	7310.8	0.4992 mg/L	0.4992 mg/L	15:55:47
2	Ni 231.604†	14625.5	15760.7	0.4850 mg/L	0.4850 mg/L	15:55:27
2	P 214.914†	6536.1	7012.5	4.923 mg/L	4.923 mg/L	15:55:47
2	Pb 220.353†	3831.7	4298.3	0.4967 mg/L	0.4967 mg/L	15:55:47
2	Sb 206.836†	959.3	1028.5	0.4824 mg/L	0.4824 mg/L	15:55:47
2	Se 196.026†	783.7	857.4	0.9964 mg/L	0.9964 mg/L	15:55:47
2	Sn 189.927†	1861.1	1906.1	0.4944 mg/L	0.4944 mg/L	15:55:47
2	Sr 407.771†	981978.7	1054308.8	0.0502 mg/L	0.0502 mg/L	15:55:21
2	Ti 337.279†	329222.8	357678.2	0.4892 mg/L	0.4892 mg/L	15:55:27
2	Tl 190.801†	589.1	641.0	0.4994 mg/L	0.4994 mg/L	15:55:47
2	V 292.402†	97740.4	107443.4	0.4947 mg/L	0.4947 mg/L	15:55:27
2	Zn 213.857†	37825.2	40184.5	0.4867 mg/L	0.4867 mg/L	15:55:27

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2859194.7	0.924	mg/L	0.0034				0.37%
Ag 328.068†	66188.7	0.2493	mg/L	0.00179	0.2493	mg/L	0.00179	0.72%
QC value within limits for Ag 328.068 Recovery = 99.73%								
Al 237.313†	20171.0	2.464	mg/L	0.0138	2.464	mg/L	0.0138	0.56%
QC value within limits for Al 237.313 Recovery = 98.54%								
As 188.979†	354.7	0.4792	mg/L	0.00146	0.4792	mg/L	0.00146	0.30%
QC value within limits for As 188.979 Recovery = 95.84%								
B 182.528†	239.1	0.4839	mg/L	0.00279	0.4839	mg/L	0.00279	0.58%
QC value within limits for B 182.528 Recovery = 96.79%								
Ba 233.527†	55370.6	0.4931	mg/L	0.00375	0.4931	mg/L	0.00375	0.76%
QC value within limits for Ba 233.527 Recovery = 98.62%								
Be 313.107†	219473.9	0.0488	mg/L	0.00045	0.0488	mg/L	0.00045	0.92%
QC value within limits for Be 313.107 Recovery = 97.62%								
Ca 315.886†	750884.0	4.942	mg/L	0.0089	4.942	mg/L	0.0089	0.18%
QC value within limits for Ca 315.886 Recovery = 98.83%								
Cd 228.802†	10528.7	0.2483	mg/L	0.00013	0.2483	mg/L	0.00013	0.05%
QC value within limits for Cd 228.802 Recovery = 99.32%								
Co 228.616†	19711.6	0.4907	mg/L	0.00199	0.4907	mg/L	0.00199	0.41%
QC value within limits for Co 228.616 Recovery = 98.13%								
Cr 267.716†	72524.9	0.4899	mg/L	0.00365	0.4899	mg/L	0.00365	0.74%
QC value within limits for Cr 267.716 Recovery = 97.98%								
Cu 324.752†	120907.0	0.4997	mg/L	0.00253	0.4997	mg/L	0.00253	0.51%
QC value within limits for Cu 324.752 Recovery = 99.93%								
Fe 234.349†	127434.0	2.462	mg/L	0.0204	2.462	mg/L	0.0204	0.83%
QC value within limits for Fe 234.349 Recovery = 98.50%								
Fe 238.204†	286778.3	2.473	mg/L	0.0172	2.473	mg/L	0.0172	0.69%
QC value within limits for Fe 238.204 Recovery = 98.91%								
K 766.490†	46804.5	25.41	mg/L	0.086	25.41	mg/L	0.086	0.34%
QC value within limits for K 766.490 Recovery = 101.65%								
Li 670.784†	17890.9	0.5088	mg/L	0.00328	0.5088	mg/L	0.00328	0.65%
QC value within limits for Li 670.784 Recovery = 101.75%								
Mg 279.077†	119543.3	4.900	mg/L	0.0363	4.900	mg/L	0.0363	0.74%
QC value within limits for Mg 279.077 Recovery = 97.99%								
Mn 257.610†	444506.3	0.4996	mg/L	0.00032	0.4996	mg/L	0.00032	0.06%
QC value within limits for Mn 257.610 Recovery = 99.92%								
Mo 202.031†	7282.4	0.4973	mg/L	0.00275	0.4973	mg/L	0.00275	0.55%
QC value within limits for Mo 202.031 Recovery = 99.46%								
Na 589.592	204030.2	24.86	mg/L	0.245	24.86	mg/L	0.245	0.99%
QC value within limits for Na 589.592 Recovery = 99.46%								
Ni 231.604†	15830.1	0.4872	mg/L	0.00304	0.4872	mg/L	0.00304	0.62%
QC value within limits for Ni 231.604 Recovery = 97.43%								
P 214.914†	6997.1	4.912	mg/L	0.0152	4.912	mg/L	0.0152	0.31%
QC value within limits for P 214.914 Recovery = 98.24%								
Pb 220.353†	4294.1	0.4962	mg/L	0.00070	0.4962	mg/L	0.00070	0.14%
QC value within limits for Pb 220.353 Recovery = 99.25%								
Sb 206.836†	1033.2	0.4847	mg/L	0.00318	0.4847	mg/L	0.00318	0.66%
QC value within limits for Sb 206.836 Recovery = 96.93%								
Se 196.026†	854.3	0.9928	mg/L	0.00515	0.9928	mg/L	0.00515	0.52%
QC value within limits for Se 196.026 Recovery = 99.28%								
Sn 189.927†	1904.0	0.4938	mg/L	0.00077	0.4938	mg/L	0.00077	0.16%
QC value within limits for Sn 189.927 Recovery = 98.77%								
Sr 407.771†	1056056.5	0.0503	mg/L	0.00012	0.0503	mg/L	0.00012	0.24%
QC value within limits for Sr 407.771 Recovery = 100.61%								
Ti 337.279†	359886.5	0.4923	mg/L	0.00427	0.4923	mg/L	0.00427	0.87%

QC value within limits for Ti 337.279 Recovery = 98.45%

Tl 190.801†	639.2	0.4980 mg/L	0.00204	0.4980 mg/L	0.00204	0.41%

QC value within limits for Tl 190.801 Recovery = 99.60%

V 292.402†	108082.8	0.4976 mg/L	0.00405	0.4976 mg/L	0.00405	0.81%

QC value within limits for V 292.402 Recovery = 99.51%

Zn 213.857†	40369.5	0.4890 mg/L	0.00318	0.4890 mg/L	0.00318	0.65%

QC value within limits for Zn 213.857 Recovery = 97.80%

All analyte(s) passed QC.

Sequence No.: 14
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/9/2006 3:57:26 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	854.6	386.0	0.2119	mg/L	0.2119	mg/L	15:59:01
1	Li 670.784†	150.6	35.6	-0.0035	mg/L	-0.0035	mg/L	15:59:01
1	Na 589.592	7657.1	5411.3	0.4088	mg/L	0.4088	mg/L	15:59:01
1	Y 371.029	2890696.8	2890696.8	0.934	mg/L			15:59:15
1	Ag 328.068†	-1960.3	-91.5	-0.0009	mg/L	-0.0009	mg/L	15:59:20
1	Al 237.313†	-151.1	53.6	0.0051	mg/L	0.0051	mg/L	15:59:40
1	As 188.979†	3.4	-4.6	-0.0105	mg/L	-0.0105	mg/L	15:59:40
1	B 182.528†	0.7	6.6	0.0102	mg/L	0.0102	mg/L	15:59:40
1	Ba 233.527†	-165.6	8.9	-0.0016	mg/L	-0.0016	mg/L	15:59:40
1	Be 313.107†	77.9	58.0	0.0000	mg/L	0.0000	mg/L	15:59:20
1	Ca 315.886†	2407.2	469.0	-0.0109	mg/L	-0.0109	mg/L	15:59:20
1	Cd 228.802†	129.2	0.6	-0.0010	mg/L	-0.0010	mg/L	15:59:40
1	Co 228.616†	-187.6	-12.3	-0.0026	mg/L	-0.0026	mg/L	15:59:40
1	Cr 267.716†	1764.6	-1.6	-0.0018	mg/L	-0.0018	mg/L	15:59:20
1	Cu 324.752†	2320.7	-186.5	-0.0030	mg/L	-0.0030	mg/L	15:59:20
1	Fe 234.349†	1333.8	133.2	-0.0065	mg/L	-0.0065	mg/L	15:59:40
1	Fe 238.204†	1016.8	347.9	-0.0094	mg/L	-0.0094	mg/L	15:59:40
1	Mg 279.077†	621.9	32.3	-0.0255	mg/L	-0.0255	mg/L	15:59:20
1	Mn 257.610†	1457.5	266.2	-0.0032	mg/L	-0.0032	mg/L	15:59:20
1	Mo 202.031†	27.1	17.4	-0.0003	mg/L	-0.0003	mg/L	15:59:40
1	Ni 231.604†	29.3	2.3	-0.0041	mg/L	-0.0041	mg/L	15:59:40
1	P 214.914†	72.0	33.1	0.0227	mg/L	0.0227	mg/L	15:59:40
1	Pb 220.353†	-135.4	16.5	-0.0011	mg/L	-0.0011	mg/L	15:59:40
1	Sb 206.836†	13.8	7.6	0.0016	mg/L	0.0016	mg/L	15:59:40
1	Se 196.026†	-1.9	9.2	0.0004	mg/L	0.0004	mg/L	15:59:40
1	Sn 189.927†	79.0	-18.6	-0.0068	mg/L	-0.0068	mg/L	15:59:40
1	Sr 407.771†	5810.7	375.7	-0.0003	mg/L	-0.0003	mg/L	15:59:15
1	Ti 337.279†	-2019.2	84.0	-0.0001	mg/L	-0.0001	mg/L	15:59:20
1	Tl 190.801†	-4.0	0.7	-0.0031	mg/L	-0.0031	mg/L	15:59:40
1	V 292.402†	-1742.8	55.9	-0.0003	mg/L	-0.0003	mg/L	15:59:20
1	Zn 213.857†	626.9	19.2	-0.0013	mg/L	-0.0013	mg/L	15:59:40
2	K 766.490†	879.2	415.8	0.2280	mg/L	0.2280	mg/L	15:59:07
2	Li 670.784†	213.7	103.9	-0.0016	mg/L	-0.0016	mg/L	15:59:07
2	Na 589.592	7783.5	5537.7	0.4243	mg/L	0.4243	mg/L	15:59:07
2	Y 371.029	2879947.3	2879947.3	0.931	mg/L			15:59:46
2	Ag 328.068†	-2079.7	-227.6	-0.0015	mg/L	-0.0015	mg/L	15:59:51
2	Al 237.313†	-143.8	60.9	0.0060	mg/L	0.0060	mg/L	16:00:12
2	As 188.979†	6.1	-1.7	-0.0065	mg/L	-0.0065	mg/L	16:00:12
2	B 182.528†	-0.7	5.2	0.0073	mg/L	0.0073	mg/L	16:00:12
2	Ba 233.527†	-168.3	5.2	-0.0016	mg/L	-0.0016	mg/L	16:00:12
2	Be 313.107†	94.1	75.8	0.0000	mg/L	0.0000	mg/L	15:59:51
2	Ca 315.886†	2411.7	483.5	-0.0108	mg/L	-0.0108	mg/L	15:59:51
2	Cd 228.802†	118.2	-10.7	-0.0013	mg/L	-0.0013	mg/L	16:00:12
2	Co 228.616†	-201.4	-27.9	-0.0030	mg/L	-0.0030	mg/L	16:00:12
2	Cr 267.716†	1798.5	41.8	-0.0015	mg/L	-0.0015	mg/L	15:59:51
2	Cu 324.752†	2373.1	-120.9	-0.0027	mg/L	-0.0027	mg/L	15:59:51
2	Fe 234.349†	1342.0	147.3	-0.0062	mg/L	-0.0062	mg/L	16:00:12
2	Fe 238.204†	1000.8	334.8	-0.0095	mg/L	-0.0095	mg/L	16:00:12
2	Mg 279.077†	669.3	85.7	-0.0233	mg/L	-0.0233	mg/L	15:59:51
2	Mn 257.610†	1434.8	247.6	-0.0032	mg/L	-0.0032	mg/L	15:59:51
2	Mo 202.031†	25.5	15.9	-0.0004	mg/L	-0.0004	mg/L	16:00:12
2	Ni 231.604†	30.6	3.7	-0.0041	mg/L	-0.0041	mg/L	16:00:12

2	P 214.914†	60.9	21.5	0.0145 mg/L	0.0145 mg/L	16:00:12
2	Pb 220.353†	-144.4	6.4	-0.0023 mg/L	-0.0023 mg/L	16:00:12
2	Sb 206.836†	7.3	0.7	-0.0017 mg/L	-0.0017 mg/L	16:00:12
2	Se 196.026†	-4.4	6.5	-0.0028 mg/L	-0.0028 mg/L	16:00:12
2	Sn 189.927†	63.0	-35.5	-0.0112 mg/L	-0.0112 mg/L	16:00:12
2	Sr 407.771†	5729.3	311.4	-0.0003 mg/L	-0.0003 mg/L	15:59:46
2	Ti 337.279†	-2036.2	57.7	-0.0001 mg/L	-0.0001 mg/L	15:59:51
2	Tl 190.801†	-2.9	1.9	-0.0022 mg/L	-0.0022 mg/L	16:00:12
2	V 292.402†	-1800.4	-13.0	-0.0006 mg/L	-0.0006 mg/L	15:59:51
2	Zn 213.857†	638.2	33.8	-0.0011 mg/L	-0.0011 mg/L	16:00:12

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2885322.0	0.932	mg/L	0.0025				0.26%
Ag 328.068†	-159.6	-0.0012	mg/L	0.00036	-0.0012	mg/L	0.00036	30.39%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	57.2	0.0055	mg/L	0.00063	0.0055	mg/L	0.00063	11.43%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	-3.2	-0.0085	mg/L	0.00278	-0.0085	mg/L	0.00278	32.66%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	5.9	0.0087	mg/L	0.00203	0.0087	mg/L	0.00203	23.22%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	7.0	-0.0016	mg/L	0.00002	-0.0016	mg/L	0.00002	1.40%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	66.9	0.0000	mg/L	0.00000	0.0000	mg/L	0.00000	7.89%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	476.2	-0.0108	mg/L	0.00007	-0.0108	mg/L	0.00007	0.61%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	-5.0	-0.0012	mg/L	0.00021	-0.0012	mg/L	0.00021	17.63%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-20.1	-0.0028	mg/L	0.00027	-0.0028	mg/L	0.00027	9.91%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated								
Cr 267.716†	20.1	-0.0017	mg/L	0.00021	-0.0017	mg/L	0.00021	12.39%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-153.7	-0.0028	mg/L	0.00019	-0.0028	mg/L	0.00019	6.77%
QC value less than the lower limit for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	140.3	-0.0064	mg/L	0.00019	-0.0064	mg/L	0.00019	3.02%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Fe 238.204†	341.4	-0.0095	mg/L	0.00008	-0.0095	mg/L	0.00008	0.85%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	400.9	0.2200	mg/L	0.01145	0.2200	mg/L	0.01145	5.21%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated								
Li 670.784†	69.7	-0.0026	mg/L	0.00139	-0.0026	mg/L	0.00139	54.35%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	59.0	-0.0244	mg/L	0.00156	-0.0244	mg/L	0.00156	6.37%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	256.9	-0.0032	mg/L	0.00001	-0.0032	mg/L	0.00001	0.47%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	16.7	-0.0003	mg/L	0.00008	-0.0003	mg/L	0.00008	21.60%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	5474.5	0.4165	mg/L	0.01100	0.4165	mg/L	0.01100	2.64%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	3.0	-0.0041	mg/L	0.00003	-0.0041	mg/L	0.00003	0.77%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated								
P 214.914†	27.3	0.0186	mg/L	0.00574	0.0186	mg/L	0.00574	30.88%
QC value within limits for P 214.914 Recovery = Not calculated								
Pb 220.353†	11.5	-0.0017	mg/L	0.00084	-0.0017	mg/L	0.00084	49.82%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	4.1	-0.0001	mg/L	0.00235	-0.0001	mg/L	0.00235	>999.9%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	7.9	-0.0012	mg/L	0.00221	-0.0012	mg/L	0.00221	182.19%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	-27.0	-0.0090	mg/L	0.00310	-0.0090	mg/L	0.00310	34.48%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 407.771†	343.5	-0.0003	mg/L	0.00000	-0.0003	mg/L	0.00000	0.77%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Ti 337.279†	70.9	-0.0001	mg/L	0.00003	-0.0001	mg/L	0.00003	28.22%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801†	1.3	-0.0026	mg/L	0.00067	-0.0026	mg/L	0.00067	25.42%
QC value within limits for Tl 190.801 Recovery = Not calculated								

V 292.402†	21.4	-0.0005 mg/L	0.00022	-0.0005 mg/L	0.00022	48.77%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	26.5	-0.0012 mg/L	0.00013	-0.0012 mg/L	0.00013	10.42%
QC value within limits for Zn 213.857 Recovery = Not calculated						

QC Failed. Continue with analysis.

Sequence No.: 15
Sample ID: 0606132-02
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 6/9/2006 4:01:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606132-02

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	8121.9	8302.5	4.510	mg/L	4.510	mg/L	16:03:26
1	Li 670.784†	274.1	172.4	0.0004	mg/L	0.0004	mg/L	16:03:26
1	Na 589.592	273732.1	271486.3	33.17	mg/L	33.17	mg/L	16:03:26
1	Y 371.029	2846220.1	2846220.1	0.920	mg/L			16:03:40
1	Ag 328.068†	-2028.3	-198.3	-0.0013	mg/L	-0.0013	mg/L	16:03:46
1	Al 237.313†	-142.7	60.2	0.0035	mg/L	0.0035	mg/L	16:03:46
1	As 188.979†	2.8	-5.2	-0.0113	mg/L	-0.0113	mg/L	16:04:06
1	B 182.528†	24.8	32.9	0.0638	mg/L	0.0638	mg/L	16:04:06
1	Ba 233.527†	140.1	338.5	0.0013	mg/L	0.0013	mg/L	16:04:06
1	Be 313.107†	-152.8	-191.6	-0.0001	mg/L	-0.0001	mg/L	16:03:46
1	Ca 315.886†	4649792.2	5053975.9	33.32	mg/L	33.32	mg/L	16:03:40
1	Cd 228.802†	124.1	-2.8	-0.0011	mg/L	-0.0011	mg/L	16:04:06
1	Co 228.616†	-190.2	-18.2	-0.0027	mg/L	-0.0027	mg/L	16:04:06
1	Cr 267.716†	2121.0	415.4	0.0009	mg/L	0.0009	mg/L	16:03:46
1	Cu 324.752†	3231.5	842.7	0.0014	mg/L	0.0014	mg/L	16:03:46
1	Fe 234.349†	22926.1	23634.5	0.4502	mg/L	0.4502	mg/L	16:03:46
1	Fe 238.204†	48279.4	51757.3	0.4360	mg/L	0.4360	mg/L	16:03:46
1	Mg 279.077†	92449.7	99894.3	4.088	mg/L	4.088	mg/L	16:03:46
1	Mn 257.610†	122759.6	132191.8	0.1461	mg/L	0.1461	mg/L	16:03:46
1	Mo 202.031†	97.9	94.9	0.0050	mg/L	0.0050	mg/L	16:04:06
1	Ni 231.604†	74.3	51.7	-0.0026	mg/L	-0.0026	mg/L	16:04:06
1	P 214.914†	67.4	29.4	0.0201	mg/L	0.0201	mg/L	16:04:06
1	Pb 220.353†	-139.6	9.8	-0.0019	mg/L	-0.0019	mg/L	16:04:06
1	Sb 206.836†	4.7	-2.0	-0.0031	mg/L	-0.0031	mg/L	16:04:06
1	Se 196.026†	-11.4	-1.2	-0.0119	mg/L	-0.0119	mg/L	16:04:06
1	Sn 189.927†	125.1	33.0	0.0066	mg/L	0.0066	mg/L	16:04:06
1	Sr 407.771†	2584421.5	2804398.8	0.1341	mg/L	0.1341	mg/L	16:03:40
1	Ti 337.279†	-1988.4	83.7	-0.0001	mg/L	-0.0001	mg/L	16:03:46
1	Tl 190.801†	12.2	18.3	0.0131	mg/L	0.0131	mg/L	16:04:06
1	V 292.402†	-1840.9	-80.0	-0.0009	mg/L	-0.0009	mg/L	16:03:46
1	Zn 213.857†	43406.1	46546.9	0.5668	mg/L	0.5668	mg/L	16:03:46
2	K 766.490†	8188.7	8500.6	4.617	mg/L	4.617	mg/L	16:03:31
2	Li 670.784†	255.1	155.7	-0.0001	mg/L	-0.0001	mg/L	16:03:31
2	Na 589.592	274600.7	272354.9	33.28	mg/L	33.28	mg/L	16:03:31
2	Y 371.029	2806683.2	2806683.2	0.907	mg/L			16:04:13
2	Ag 328.068†	-2083.9	-290.6	-0.0017	mg/L	-0.0017	mg/L	16:04:18
2	Al 237.313†	-137.9	63.3	0.0038	mg/L	0.0038	mg/L	16:04:18
2	As 188.979†	4.8	-3.0	-0.0082	mg/L	-0.0082	mg/L	16:04:39
2	B 182.528†	23.9	32.3	0.0625	mg/L	0.0625	mg/L	16:04:39
2	Ba 233.527†	115.8	313.8	0.0011	mg/L	0.0011	mg/L	16:04:39
2	Be 313.107†	-318.8	-376.9	-0.0001	mg/L	-0.0001	mg/L	16:04:18
2	Ca 315.886†	4584221.2	5052894.5	33.32	mg/L	33.32	mg/L	16:04:13
2	Cd 228.802†	129.0	4.5	-0.0009	mg/L	-0.0009	mg/L	16:04:39
2	Co 228.616†	-174.9	-4.3	-0.0024	mg/L	-0.0024	mg/L	16:04:39
2	Cr 267.716†	2195.8	530.4	0.0017	mg/L	0.0017	mg/L	16:04:18
2	Cu 324.752†	3260.9	924.7	0.0017	mg/L	0.0017	mg/L	16:04:18
2	Fe 234.349†	23077.7	24152.9	0.4603	mg/L	0.4603	mg/L	16:04:18
2	Fe 238.204†	48622.8	52875.5	0.4457	mg/L	0.4457	mg/L	16:04:18
2	Mg 279.077†	92823.2	101722.2	4.163	mg/L	4.163	mg/L	16:04:18
2	Mn 257.610†	123385.6	134762.5	0.1490	mg/L	0.1490	mg/L	16:04:18
2	Mo 202.031†	106.9	106.3	0.0058	mg/L	0.0058	mg/L	16:04:39
2	Ni 231.604†	97.8	78.7	-0.0017	mg/L	-0.0017	mg/L	16:04:39
2	P 214.914†	52.1	13.5	0.0089	mg/L	0.0089	mg/L	16:04:39
2	Pb 220.353†	-142.3	4.7	-0.0025	mg/L	-0.0025	mg/L	16:04:39
2	Sb 206.836†	2.2	-4.7	-0.0044	mg/L	-0.0044	mg/L	16:04:39

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	43249.2	46215.5	25.09	mg/L	25.09	mg/L	16:48:57
1	Li 670.784†	16610.4	17827.2	0.5069	mg/L	0.5069	mg/L	16:48:57
1	Na 589.592	208700.7	206454.9	25.16	mg/L	25.16	mg/L	16:48:57
1	Y 371.029	2863493.3	2863493.3	0.925	mg/L			16:49:11
1	Ag 328.068†	60038.8	66898.4	0.2520	mg/L	0.2520	mg/L	16:49:17
1	Al 237.313†	18753.6	20484.6	2.502	mg/L	2.502	mg/L	16:49:17
1	As 188.979†	331.1	349.6	0.4722	mg/L	0.4722	mg/L	16:49:37
1	B 182.528†	215.8	239.2	0.4840	mg/L	0.4840	mg/L	16:49:37
1	Ba 233.527†	51835.6	56211.1	0.5006	mg/L	0.5006	mg/L	16:49:17
1	Be 313.107†	205933.0	222550.9	0.0495	mg/L	0.0495	mg/L	16:49:17
1	Ca 315.886†	694516.9	748538.9	4.926	mg/L	4.926	mg/L	16:49:11
1	Cd 228.802†	9871.0	10531.1	0.2484	mg/L	0.2484	mg/L	16:49:37
1	Co 228.616†	18364.2	20037.0	0.4988	mg/L	0.4988	mg/L	16:49:17
1	Cr 267.716†	69715.9	73459.4	0.4963	mg/L	0.4963	mg/L	16:49:17
1	Cu 324.752†	115687.4	122366.0	0.5057	mg/L	0.5057	mg/L	16:49:17
1	Fe 234.349†	120883.3	129358.2	2.500	mg/L	2.500	mg/L	16:49:17
1	Fe 238.204†	269798.9	290863.1	2.508	mg/L	2.508	mg/L	16:49:17
1	Mg 279.077†	112488.5	120946.1	4.957	mg/L	4.957	mg/L	16:49:17
1	Mn 257.610†	412354.2	444386.1	0.4995	mg/L	0.4995	mg/L	16:49:11
1	Mo 202.031†	6729.3	7261.6	0.4959	mg/L	0.4959	mg/L	16:49:37
1	Ni 231.604†	14801.3	15968.4	0.4914	mg/L	0.4914	mg/L	16:49:17
1	P 214.914†	6517.2	6999.9	4.914	mg/L	4.914	mg/L	16:49:37
1	Pb 220.353†	3821.8	4292.2	0.4960	mg/L	0.4960	mg/L	16:49:37
1	Sb 206.836†	969.9	1041.2	0.4884	mg/L	0.4884	mg/L	16:49:37
1	Se 196.026†	763.4	836.4	0.9718	mg/L	0.9718	mg/L	16:49:37
1	Sn 189.927†	1850.3	1896.7	0.4919	mg/L	0.4919	mg/L	16:49:37
1	Sr 407.771†	979375.4	1052682.2	0.0501	mg/L	0.0501	mg/L	16:49:11
1	Ti 337.279†	334801.3	364105.5	0.4980	mg/L	0.4980	mg/L	16:49:17
1	Tl 190.801†	582.7	634.9	0.4945	mg/L	0.4945	mg/L	16:49:37
1	V 292.402†	99172.8	109109.6	0.5022	mg/L	0.5022	mg/L	16:49:17
1	Zn 213.857†	38432.0	40886.0	0.4953	mg/L	0.4953	mg/L	16:49:17
2	K 766.490†	43682.9	46483.6	25.24	mg/L	25.24	mg/L	16:49:02
2	Li 670.784†	16731.2	17880.9	0.5085	mg/L	0.5085	mg/L	16:49:02
2	Na 589.592	208964.6	206718.8	25.20	mg/L	25.20	mg/L	16:49:02
2	Y 371.029	2875711.9	2875711.9	0.929	mg/L			16:49:43
2	Ag 328.068†	59498.3	66041.0	0.2488	mg/L	0.2488	mg/L	16:49:49
2	Al 237.313†	18347.7	19961.6	2.438	mg/L	2.438	mg/L	16:49:49
2	As 188.979†	326.7	343.4	0.4637	mg/L	0.4637	mg/L	16:50:09
2	B 182.528†	215.1	237.4	0.4804	mg/L	0.4804	mg/L	16:50:09
2	Ba 233.527†	50798.8	54857.1	0.4885	mg/L	0.4885	mg/L	16:49:49
2	Be 313.107†	202536.4	217949.8	0.0485	mg/L	0.0485	mg/L	16:49:49
2	Ca 315.886†	697017.6	748040.8	4.923	mg/L	4.923	mg/L	16:49:43
2	Cd 228.802†	9898.5	10515.3	0.2480	mg/L	0.2480	mg/L	16:50:09
2	Co 228.616†	17932.9	19488.4	0.4851	mg/L	0.4851	mg/L	16:49:49
2	Cr 267.716†	68343.1	71661.7	0.4841	mg/L	0.4841	mg/L	16:49:49
2	Cu 324.752†	114586.7	120650.1	0.4986	mg/L	0.4986	mg/L	16:49:49
2	Fe 234.349†	118401.3	126131.8	2.437	mg/L	2.437	mg/L	16:49:49
2	Fe 238.204†	264561.9	283988.0	2.449	mg/L	2.449	mg/L	16:49:49
2	Mg 279.077†	110224.9	117993.5	4.836	mg/L	4.836	mg/L	16:49:49
2	Mn 257.610†	413524.8	443752.2	0.4988	mg/L	0.4988	mg/L	16:49:43
2	Mo 202.031†	6770.2	7274.7	0.4968	mg/L	0.4968	mg/L	16:50:09
2	Ni 231.604†	14552.0	15632.1	0.4810	mg/L	0.4810	mg/L	16:49:49
2	P 214.914†	6540.6	6995.2	4.911	mg/L	4.911	mg/L	16:50:09
2	Pb 220.353†	3825.3	4278.4	0.4944	mg/L	0.4944	mg/L	16:50:09
2	Sb 206.836†	974.6	1041.7	0.4889	mg/L	0.4889	mg/L	16:50:09
2	Se 196.026†	769.2	839.1	0.9749	mg/L	0.9749	mg/L	16:50:09
2	Sn 189.927†	1850.3	1888.2	0.4897	mg/L	0.4897	mg/L	16:50:09
2	Sr 407.771†	982011.5	1051021.7	0.0501	mg/L	0.0501	mg/L	16:49:43
2	Ti 337.279†	329302.1	356649.7	0.4878	mg/L	0.4878	mg/L	16:49:49
2	Tl 190.801†	586.7	636.5	0.4959	mg/L	0.4959	mg/L	16:50:09
2	V 292.402†	97669.1	107035.9	0.4928	mg/L	0.4928	mg/L	16:49:49
2	Zn 213.857†	37633.8	39850.5	0.4827	mg/L	0.4827	mg/L	16:49:49

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2869602.6	0.927	mg/L	0.0028				0.30%
Ag 328.068†	66469.7	0.2504	mg/L	0.00229	0.2504	mg/L	0.00229	0.91%

QC value within limits for Ag 328.068 Recovery = 100.16%						
Al 237.313†	20223.1	2.470 mg/L	0.0452	2.470 mg/L	0.0452	1.83%
QC value within limits for Al 237.313 Recovery = 98.80%						
As 188.979†	346.5	0.4679 mg/L	0.00601	0.4679 mg/L	0.00601	1.28%
QC value within limits for As 188.979 Recovery = 93.58%						
B 182.528†	238.3	0.4822 mg/L	0.00259	0.4822 mg/L	0.00259	0.54%
QC value within limits for B 182.528 Recovery = 96.44%						
Ba 233.527†	55534.1	0.4946 mg/L	0.00855	0.4946 mg/L	0.00855	1.73%
QC value within limits for Ba 233.527 Recovery = 98.91%						
Be 313.107†	220250.3	0.0490 mg/L	0.00072	0.0490 mg/L	0.00072	1.48%
QC value within limits for Be 313.107 Recovery = 97.96%						
Ca 315.886†	748289.9	4.925 mg/L	0.0024	4.925 mg/L	0.0024	0.05%
QC value within limits for Ca 315.886 Recovery = 98.49%						
Cd 228.802†	10523.2	0.2482 mg/L	0.00028	0.2482 mg/L	0.00028	0.11%
QC value within limits for Cd 228.802 Recovery = 99.30%						
Co 228.616†	19762.7	0.4919 mg/L	0.00971	0.4919 mg/L	0.00971	1.97%
QC value within limits for Co 228.616 Recovery = 98.39%						
Cr 267.716†	72560.5	0.4902 mg/L	0.00863	0.4902 mg/L	0.00863	1.76%
QC value within limits for Cr 267.716 Recovery = 98.03%						
Cu 324.752†	121508.0	0.5022 mg/L	0.00504	0.5022 mg/L	0.00504	1.00%
QC value within limits for Cu 324.752 Recovery = 100.43%						
Fe 234.349†	127745.0	2.468 mg/L	0.0443	2.468 mg/L	0.0443	1.79%
QC value within limits for Fe 234.349 Recovery = 98.74%						
Fe 238.204†	287425.6	2.478 mg/L	0.0421	2.478 mg/L	0.0421	1.70%
QC value within limits for Fe 238.204 Recovery = 99.14%						
K 766.490†	46349.6	25.17 mg/L	0.103	25.17 mg/L	0.103	0.41%
QC value within limits for K 766.490 Recovery = 100.66%						
Li 670.784†	17854.0	0.5077 mg/L	0.00109	0.5077 mg/L	0.00109	0.21%
QC value within limits for Li 670.784 Recovery = 101.54%						
Mg 279.077†	119469.8	4.897 mg/L	0.0860	4.897 mg/L	0.0860	1.76%
QC value within limits for Mg 279.077 Recovery = 97.93%						
Mn 257.610†	444069.1	0.4991 mg/L	0.00051	0.4991 mg/L	0.00051	0.10%
QC value within limits for Mn 257.610 Recovery = 99.83%						
Mo 202.031†	7268.1	0.4963 mg/L	0.00063	0.4963 mg/L	0.00063	0.13%
QC value within limits for Mo 202.031 Recovery = 99.26%						
Na 589.592	206586.8	25.18 mg/L	0.023	25.18 mg/L	0.023	0.09%
QC value within limits for Na 589.592 Recovery = 100.72%						
Ni 231.604†	15800.3	0.4862 mg/L	0.00738	0.4862 mg/L	0.00738	1.52%
QC value within limits for Ni 231.604 Recovery = 97.25%						
P 214.914†	6997.5	4.913 mg/L	0.0024	4.913 mg/L	0.0024	0.05%
QC value within limits for P 214.914 Recovery = 98.25%						
Pb 220.353†	4285.3	0.4952 mg/L	0.00113	0.4952 mg/L	0.00113	0.23%
QC value within limits for Pb 220.353 Recovery = 99.04%						
Sb 206.836†	1041.5	0.4886 mg/L	0.00035	0.4886 mg/L	0.00035	0.07%
QC value within limits for Sb 206.836 Recovery = 97.72%						
Se 196.026†	837.7	0.9734 mg/L	0.00222	0.9734 mg/L	0.00222	0.23%
QC value within limits for Se 196.026 Recovery = 97.34%						
Sn 189.927†	1892.5	0.4908 mg/L	0.00156	0.4908 mg/L	0.00156	0.32%
QC value within limits for Sn 189.927 Recovery = 98.16%						
Sr 407.771†	1051851.9	0.0501 mg/L	0.00006	0.0501 mg/L	0.00006	0.11%
QC value within limits for Sr 407.771 Recovery = 100.20%						
Ti 337.279†	360377.6	0.4929 mg/L	0.00721	0.4929 mg/L	0.00721	1.46%
QC value within limits for Ti 337.279 Recovery = 98.59%						
Tl 190.801†	635.7	0.4952 mg/L	0.00098	0.4952 mg/L	0.00098	0.20%
QC value within limits for Tl 190.801 Recovery = 99.04%						
V 292.402†	108072.8	0.4975 mg/L	0.00663	0.4975 mg/L	0.00663	1.33%
QC value within limits for V 292.402 Recovery = 99.50%						
Zn 213.857†	40368.3	0.4890 mg/L	0.00890	0.4890 mg/L	0.00890	1.82%
QC value within limits for Zn 213.857 Recovery = 97.80%						

All analyte(s) passed QC.

Sequence No.: 26
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/9/2006 4:51:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time

1	K 766.490†	981.4	521.6	0.2855 mg/L	0.2855 mg/L	16:53:21
1	Li 670.784†	211.2	100.4	-0.0017 mg/L	-0.0017 mg/L	16:53:21
1	Na 589.592	8672.8	6427.0	0.5338 mg/L	0.5338 mg/L	16:53:21
1	Y 371.029	2890816.5	2890816.5	0.934 mg/L		16:53:34
1	Ag 328.068†	-2126.3	-269.1	-0.0016 mg/L	-0.0016 mg/L	16:53:39
1	Al 237.313†	-176.7	26.2	0.0017 mg/L	0.0017 mg/L	16:54:00
1	As 188.979†	6.5	-1.3	-0.0059 mg/L	-0.0059 mg/L	16:54:00
1	B 182.528†	0.0	5.9	0.0088 mg/L	0.0088 mg/L	16:54:00
1	Ba 233.527†	-166.8	7.5	-0.0016 mg/L	-0.0016 mg/L	16:54:00
1	Be 313.107†	217.5	207.5	0.0000 mg/L	0.0000 mg/L	16:53:39
1	Ca 315.886†	2518.0	587.5	-0.0101 mg/L	-0.0101 mg/L	16:53:39
1	Cd 228.802†	113.9	-15.8	-0.0014 mg/L	-0.0014 mg/L	16:54:00
1	Co 228.616†	-199.8	-25.3	-0.0029 mg/L	-0.0029 mg/L	16:54:00
1	Cr 267.716†	1735.9	-32.5	-0.0020 mg/L	-0.0020 mg/L	16:53:39
1	Cu 324.752†	2151.6	-367.7	-0.0037 mg/L	-0.0037 mg/L	16:53:39
1	Fe 234.349†	1324.7	123.4	-0.0067 mg/L	-0.0067 mg/L	16:54:00
1	Fe 238.204†	1049.4	382.8	-0.0091 mg/L	-0.0091 mg/L	16:54:00
1	Mg 279.077†	734.0	152.3	-0.0206 mg/L	-0.0206 mg/L	16:53:39
1	Mn 257.610†	1426.6	232.9	-0.0032 mg/L	-0.0032 mg/L	16:53:39
1	Mo 202.031†	23.2	13.2	-0.0006 mg/L	-0.0006 mg/L	16:54:00
1	Ni 231.604†	34.1	7.3	-0.0040 mg/L	-0.0040 mg/L	16:54:00
1	P 214.914†	68.0	28.8	0.0196 mg/L	0.0196 mg/L	16:54:00
1	Pb 220.353†	-150.9	0.1	-0.0030 mg/L	-0.0030 mg/L	16:54:00
1	Sb 206.836†	4.9	-1.9	-0.0030 mg/L	-0.0030 mg/L	16:54:00
1	Se 196.026†	-5.1	5.8	-0.0036 mg/L	-0.0036 mg/L	16:54:00
1	Sn 189.927†	66.5	-32.0	-0.0103 mg/L	-0.0103 mg/L	16:54:00
1	Sr 407.771†	5593.3	142.6	-0.0003 mg/L	-0.0003 mg/L	16:53:34
1	Ti 337.279†	-2086.0	12.6	-0.0002 mg/L	-0.0002 mg/L	16:53:39
1	Tl 190.801†	-7.2	-2.7	-0.0058 mg/L	-0.0058 mg/L	16:54:00
1	V 292.402†	-1813.5	-19.7	-0.0006 mg/L	-0.0006 mg/L	16:53:39
1	Zn 213.857†	621.6	13.6	-0.0014 mg/L	-0.0014 mg/L	16:54:00
2	K 766.490†	848.8	377.7	0.2074 mg/L	0.2074 mg/L	16:53:26
2	Li 670.784†	220.9	110.3	-0.0014 mg/L	-0.0014 mg/L	16:53:26
2	Na 589.592	8744.4	6498.5	0.5426 mg/L	0.5426 mg/L	16:53:26
2	Y 371.029	2897070.5	2897070.5	0.936 mg/L		16:54:05
2	Ag 328.068†	-2153.7	-293.5	-0.0017 mg/L	-0.0017 mg/L	16:54:11
2	Al 237.313†	-166.4	37.6	0.0031 mg/L	0.0031 mg/L	16:54:31
2	As 188.979†	6.0	-1.8	-0.0066 mg/L	-0.0066 mg/L	16:54:31
2	B 182.528†	2.0	8.0	0.0130 mg/L	0.0130 mg/L	16:54:31
2	Ba 233.527†	-179.9	-6.0	-0.0017 mg/L	-0.0017 mg/L	16:54:31
2	Be 313.107†	11.6	-13.0	-0.0001 mg/L	-0.0001 mg/L	16:54:11
2	Ca 315.886†	2490.4	552.2	-0.0103 mg/L	-0.0103 mg/L	16:54:11
2	Cd 228.802†	121.0	-8.5	-0.0013 mg/L	-0.0013 mg/L	16:54:31
2	Co 228.616†	-179.4	-3.1	-0.0023 mg/L	-0.0023 mg/L	16:54:31
2	Cr 267.716†	1814.4	47.4	-0.0015 mg/L	-0.0015 mg/L	16:54:11
2	Cu 324.752†	2188.3	-333.4	-0.0036 mg/L	-0.0036 mg/L	16:54:11
2	Fe 234.349†	1320.5	115.8	-0.0069 mg/L	-0.0069 mg/L	16:54:31
2	Fe 238.204†	1008.8	337.0	-0.0095 mg/L	-0.0095 mg/L	16:54:31
2	Mg 279.077†	640.6	50.8	-0.0248 mg/L	-0.0248 mg/L	16:54:11
2	Mn 257.610†	1324.9	121.1	-0.0033 mg/L	-0.0033 mg/L	16:54:11
2	Mo 202.031†	48.2	39.9	0.0012 mg/L	0.0012 mg/L	16:54:31
2	Ni 231.604†	32.4	5.5	-0.0040 mg/L	-0.0040 mg/L	16:54:31
2	P 214.914†	60.8	21.0	0.0141 mg/L	0.0141 mg/L	16:54:31
2	Pb 220.353†	-146.5	5.1	-0.0024 mg/L	-0.0024 mg/L	16:54:31
2	Sb 206.836†	8.1	1.5	-0.0014 mg/L	-0.0014 mg/L	16:54:31
2	Se 196.026†	-8.7	1.9	-0.0082 mg/L	-0.0082 mg/L	16:54:31
2	Sn 189.927†	52.2	-47.3	-0.0143 mg/L	-0.0143 mg/L	16:54:31
2	Sr 407.771†	5759.5	307.2	-0.0003 mg/L	-0.0003 mg/L	16:54:05
2	Ti 337.279†	-2045.2	61.0	-0.0001 mg/L	-0.0001 mg/L	16:54:11
2	Tl 190.801†	-10.5	-6.2	-0.0085 mg/L	-0.0085 mg/L	16:54:31
2	V 292.402†	-1691.3	115.0	0.0000 mg/L	0.0000 mg/L	16:54:11
2	Zn 213.857†	621.0	11.4	-0.0014 mg/L	-0.0014 mg/L	16:54:31

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2893943.5	0.935	mg/L	0.0014				0.15%
Ag 328.068†	-281.3	-0.0017	mg/L	0.00006	-0.0017	mg/L	0.00006	3.88%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	31.9	0.0024	mg/L	0.00099	0.0024	mg/L	0.00099	40.65%
QC value within limits for Al 237.313 Recovery = Not calculated								

As 188.979†	-1.5	-0.0063 mg/L	0.00050	-0.0063 mg/L	0.00050	8.01%
QC value within limits for As 188.979 Recovery = Not calculated						
B 182.528†	7.0	0.0109 mg/L	0.00296	0.0109 mg/L	0.00296	27.18%
QC value within limits for B 182.528 Recovery = Not calculated						
Ba 233.527†	0.8	-0.0017 mg/L	0.00009	-0.0017 mg/L	0.00009	5.07%
QC value within limits for Ba 233.527 Recovery = Not calculated						
Be 313.107†	97.2	0.0000 mg/L	0.00004	0.0000 mg/L	0.00004	115.74%
QC value within limits for Be 313.107 Recovery = Not calculated						
Ca 315.886†	569.9	-0.0102 mg/L	0.00016	-0.0102 mg/L	0.00016	1.60%
QC value within limits for Ca 315.886 Recovery = Not calculated						
Cd 228.802†	-12.2	-0.0014 mg/L	0.00013	-0.0014 mg/L	0.00013	9.40%
QC value within limits for Cd 228.802 Recovery = Not calculated						
Co 228.616†	-14.2	-0.0026 mg/L	0.00039	-0.0026 mg/L	0.00039	15.01%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated						
Cr 267.716†	7.5	-0.0018 mg/L	0.00038	-0.0018 mg/L	0.00038	21.67%
QC value within limits for Cr 267.716 Recovery = Not calculated						
Cu 324.752†	-350.5	-0.0037 mg/L	0.00010	-0.0037 mg/L	0.00010	2.74%
QC value less than the lower limit for Cu 324.752 Recovery = Not calculated						
Fe 234.349†	119.6	-0.0068 mg/L	0.00010	-0.0068 mg/L	0.00010	1.53%
QC value within limits for Fe 234.349 Recovery = Not calculated						
Fe 238.204†	359.9	-0.0093 mg/L	0.00028	-0.0093 mg/L	0.00028	3.01%
QC value within limits for Fe 238.204 Recovery = Not calculated						
K 766.490†	449.6	0.2464 mg/L	0.05524	0.2464 mg/L	0.05524	22.42%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated						
Li 670.784†	105.3	-0.0015 mg/L	0.00020	-0.0015 mg/L	0.00020	13.12%
QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	101.5	-0.0227 mg/L	0.00296	-0.0227 mg/L	0.00296	13.04%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	177.0	-0.0033 mg/L	0.00009	-0.0033 mg/L	0.00009	2.74%
QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	26.6	0.0003 mg/L	0.00129	0.0003 mg/L	0.00129	392.96%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	6462.8	0.5382 mg/L	0.00623	0.5382 mg/L	0.00623	1.16%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	6.4	-0.0040 mg/L	0.00004	-0.0040 mg/L	0.00004	0.98%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated						
P 214.914†	24.9	0.0169 mg/L	0.00389	0.0169 mg/L	0.00389	23.02%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	2.6	-0.0027 mg/L	0.00041	-0.0027 mg/L	0.00041	15.26%
QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	-0.2	-0.0022 mg/L	0.00116	-0.0022 mg/L	0.00116	53.05%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	3.9	-0.0059 mg/L	0.00323	-0.0059 mg/L	0.00323	54.71%
QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-39.7	-0.0123 mg/L	0.00282	-0.0123 mg/L	0.00282	22.98%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	224.9	-0.0003 mg/L	0.00001	-0.0003 mg/L	0.00001	1.93%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	36.8	-0.0001 mg/L	0.00005	-0.0001 mg/L	0.00005	34.23%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	-4.4	-0.0071 mg/L	0.00193	-0.0071 mg/L	0.00193	27.09%
QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	47.6	-0.0003 mg/L	0.00045	-0.0003 mg/L	0.00045	139.33%
QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	12.5	-0.0014 mg/L	0.00002	-0.0014 mg/L	0.00002	1.26%
QC value within limits for Zn 213.857 Recovery = Not calculated						

QC Failed. Continue with analysis.

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Sequence No.: 27
Sample ID: BF60904-MS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 29
Date Collected: 6/9/2006 4:56:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60904-MS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	110061.0	126938.0	68.92	mg/L	68.92	mg/L	16:57:50
1	Li 670.784†	16372.1	18835.7	0.5359	mg/L	0.5359	mg/L	16:57:50
1	Na 589.592	1140329.9	1138084.1	139.9	mg/L	139.9	mg/L	16:57:45

B 182.528†	15.1	0.0274 mg/L	0.00577	0.0274 mg/L	0.00577	21.05%
Ba 233.527†	224.6	0.0003 mg/L	0.00016	0.0003 mg/L	0.00016	50.40%
Be 313.107†	101.2	0.0000 mg/L	0.00002	0.0000 mg/L	0.00002	67.25%
Ca 315.886†	120119.7	0.7784 mg/L	0.00694	0.7784 mg/L	0.00694	0.89%
Cd 228.802†	-6.1	-0.0012 mg/L	0.00021	-0.0012 mg/L	0.00021	17.60%
Co 228.616†	32.3	-0.0015 mg/L	0.00008	-0.0015 mg/L	0.00008	5.14%
Cr 267.716†	143.2	-0.0009 mg/L	0.00034	-0.0009 mg/L	0.00034	37.36%
Cu 324.752†	752.8	0.0010 mg/L	0.00027	0.0010 mg/L	0.00027	25.65%
Fe 234.349†	36911.0	0.7083 mg/L	0.00676	0.7083 mg/L	0.00676	0.95%
Fe 238.204†	83512.4	0.7111 mg/L	0.00742	0.7111 mg/L	0.00742	1.04%
K 766.490†	7875.4	4.278 mg/L	0.0021	4.278 mg/L	0.0021	0.05%
Li 670.784†	106.4	-0.0015 mg/L	0.00026	-0.0015 mg/L	0.00026	17.03%
Mg 279.077†	3832.3	0.1324 mg/L	0.00294	0.1324 mg/L	0.00294	2.22%
Mn 257.610†	152988.1	0.1697 mg/L	0.00140	0.1697 mg/L	0.00140	0.83%
Mo 202.031†	108.1	0.0059 mg/L	0.00053	0.0059 mg/L	0.00053	9.04%
Na 589.592	83176.7	9.984 mg/L	0.0117	9.984 mg/L	0.0117	0.12%
Ni 231.604†	106.4	-0.0009 mg/L	0.00042	-0.0009 mg/L	0.00042	47.53%
P 214.914†	75.1	0.0522 mg/L	0.00238	0.0522 mg/L	0.00238	4.56%
Pb 220.353†	700.3	0.0782 mg/L	0.00191	0.0782 mg/L	0.00191	2.44%
Sb 206.836†	7.5	0.0015 mg/L	0.00161	0.0015 mg/L	0.00161	107.63%
Se 196.026†	3.8	-0.0059 mg/L	0.00127	-0.0059 mg/L	0.00127	21.40%
Sn 189.927†	-38.0	-0.0118 mg/L	0.00063	-0.0118 mg/L	0.00063	5.33%
Sr 407.771†	94226.5	0.0042 mg/L	0.00000	0.0042 mg/L	0.00000	0.10%
Ti 337.279†	443.8	0.0004 mg/L	0.00003	0.0004 mg/L	0.00003	7.01%
Tl 190.801†	1.0	0.0001 mg/L	0.00191	0.0001 mg/L	0.00191	>999.9%
V 292.402†	-5.2	-0.0006 mg/L	0.00012	-0.0006 mg/L	0.00012	20.72%
Zn 213.857†	8896.6	0.1070 mg/L	0.00132	0.1070 mg/L	0.00132	1.23%

Sequence No.: 31
Sample ID: BF60914-BLK1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 33
Date Collected: 6/9/2006 5:14:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60914-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	864.3	400.1	0.2196	mg/L	0.2196	mg/L	17:15:53
1	Li 670.784†	175.3	62.8	-0.0027	mg/L	-0.0027	mg/L	17:15:53
1	Na 589.592	18955.7	16709.9	1.800	mg/L	1.800	mg/L	17:15:53
1	Y 371.029	2878644.7	2878644.7	0.930	mg/L			17:16:06
1	Ag 328.068†	-2021.1	-165.7	-0.0012	mg/L	-0.0012	mg/L	17:16:11
1	Al 237.313†	-152.5	51.4	0.0047	mg/L	0.0047	mg/L	17:16:32
1	As 188.979†	5.2	-2.7	-0.0079	mg/L	-0.0079	mg/L	17:16:32
1	B 182.528†	-1.2	4.6	0.0061	mg/L	0.0061	mg/L	17:16:32
1	Ba 233.527†	-168.9	4.5	-0.0016	mg/L	-0.0016	mg/L	17:16:32
1	Be 313.107†	162.7	149.6	0.0000	mg/L	0.0000	mg/L	17:16:11
1	Ca 315.886†	11847.7	10629.5	0.0562	mg/L	0.0562	mg/L	17:16:11
1	Cd 228.802†	123.4	-5.0	-0.0012	mg/L	-0.0012	mg/L	17:16:32
1	Co 228.616†	-184.3	-9.6	-0.0025	mg/L	-0.0025	mg/L	17:16:32
1	Cr 267.716†	2572.4	874.7	0.0041	mg/L	0.0041	mg/L	17:16:11
1	Cu 324.752†	2631.6	158.1	-0.0015	mg/L	-0.0015	mg/L	17:16:11
1	Fe 234.349†	2205.9	1076.8	0.0118	mg/L	0.0118	mg/L	17:16:11
1	Fe 238.204†	2813.8	2284.5	0.0074	mg/L	0.0074	mg/L	17:16:32
1	Mg 279.077†	695.5	114.2	-0.0221	mg/L	-0.0221	mg/L	17:16:11
1	Mn 257.610†	4289.6	3317.6	0.0003	mg/L	0.0003	mg/L	17:16:11
1	Mo 202.031†	39.2	30.6	0.0006	mg/L	0.0006	mg/L	17:16:32
1	Ni 231.604†	105.0	83.8	-0.0016	mg/L	-0.0016	mg/L	17:16:32
1	P 214.914†	1293.8	1347.1	0.9452	mg/L	0.9452	mg/L	17:16:32
1	Pb 220.353†	-168.2	-19.2	-0.0052	mg/L	-0.0052	mg/L	17:16:32
1	Sb 206.836†	12.7	6.5	0.0009	mg/L	0.0009	mg/L	17:16:32
1	Se 196.026†	-6.9	3.8	-0.0060	mg/L	-0.0060	mg/L	17:16:32
1	Sn 189.927†	95.4	-0.6	-0.0021	mg/L	-0.0021	mg/L	17:16:32
1	Sr 407.771†	6188.6	808.0	-0.0003	mg/L	-0.0003	mg/L	17:16:06
1	Ti 337.279†	-1767.2	345.9	0.0003	mg/L	0.0003	mg/L	17:16:11
1	Tl 190.801†	3.3	8.5	0.0031	mg/L	0.0031	mg/L	17:16:32
1	V 292.402†	-1898.5	-119.3	-0.0011	mg/L	-0.0011	mg/L	17:16:11
1	Zn 213.857†	822.8	232.7	0.0013	mg/L	0.0013	mg/L	17:16:32
2	K 766.490†	864.6	412.8	0.2264	mg/L	0.2264	mg/L	17:15:58
2	Li 670.784†	190.0	81.3	-0.0022	mg/L	-0.0022	mg/L	17:15:58

2	Na 589.592	18881.9	16636.1	1.791 mg/L	1.791 mg/L	17:15:58
2	Y 371.029	2841107.1	2841107.1	0.918 mg/L		17:16:37
2	Ag 328.068†	-2105.0	-285.8	-0.0017 mg/L	-0.0017 mg/L	17:16:43
2	Al 237.313†	-178.9	20.5	0.0010 mg/L	0.0010 mg/L	17:17:03
2	As 188.979†	9.3	1.9	-0.0016 mg/L	-0.0016 mg/L	17:17:03
2	B 182.528†	2.0	8.1	0.0131 mg/L	0.0131 mg/L	17:17:03
2	Ba 233.527†	-182.5	-12.7	-0.0018 mg/L	-0.0018 mg/L	17:17:03
2	Be 313.107†	63.0	43.2	0.0000 mg/L	0.0000 mg/L	17:16:43
2	Ca 315.886†	11747.3	10688.5	0.0566 mg/L	0.0566 mg/L	17:16:43
2	Cd 228.802†	125.5	-1.1	-0.0011 mg/L	-0.0011 mg/L	17:17:03
2	Co 228.616†	-202.5	-32.0	-0.0031 mg/L	-0.0031 mg/L	17:17:03
2	Cr 267.716†	2561.8	899.7	0.0043 mg/L	0.0043 mg/L	17:16:43
2	Cu 324.752†	2598.2	159.2	-0.0015 mg/L	-0.0015 mg/L	17:16:43
2	Fe 234.349†	2180.8	1080.7	0.0119 mg/L	0.0119 mg/L	17:16:43
2	Fe 238.204†	2817.0	2327.9	0.0077 mg/L	0.0077 mg/L	17:17:03
2	Mg 279.077†	717.9	148.4	-0.0207 mg/L	-0.0207 mg/L	17:16:43
2	Mn 257.610†	4150.1	3226.5	0.0002 mg/L	0.0002 mg/L	17:16:43
2	Mo 202.031†	33.2	24.7	0.0002 mg/L	0.0002 mg/L	17:17:03
2	Ni 231.604†	96.1	75.6	-0.0018 mg/L	-0.0018 mg/L	17:17:03
2	P 214.914†	1312.8	1386.1	0.9726 mg/L	0.9726 mg/L	17:17:03
2	Pb 220.353†	-162.9	-15.9	-0.0048 mg/L	-0.0048 mg/L	17:17:03
2	Sb 206.836†	13.9	8.0	0.0016 mg/L	0.0016 mg/L	17:17:03
2	Se 196.026†	-6.2	4.5	-0.0052 mg/L	-0.0052 mg/L	17:17:03
2	Sn 189.927†	87.3	-8.0	-0.0040 mg/L	-0.0040 mg/L	17:17:03
2	Sr 407.771†	6174.3	880.3	-0.0003 mg/L	-0.0003 mg/L	17:16:37
2	Ti 337.279†	-1649.0	449.5	0.0004 mg/L	0.0004 mg/L	17:16:43
2	Tl 190.801†	-3.7	1.0	-0.0028 mg/L	-0.0028 mg/L	17:17:03
2	V 292.402†	-1842.5	-85.3	-0.0009 mg/L	-0.0009 mg/L	17:16:43
2	Zn 213.857†	822.0	243.4	0.0014 mg/L	0.0014 mg/L	17:17:03

Mean Data: BF60914-BLK1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2859875.9	0.924	mg/L	0.0086				0.93%
Ag 328.068†	-225.7	-0.0014	mg/L	0.00032	-0.0014	mg/L	0.00032	22.19%
Al 237.313†	35.9	0.0028	mg/L	0.00268	0.0028	mg/L	0.00268	94.17%
As 188.979†	-0.4	-0.0047	mg/L	0.00443	-0.0047	mg/L	0.00443	93.61%
B 182.528†	6.3	0.0096	mg/L	0.00499	0.0096	mg/L	0.00499	51.95%
Ba 233.527†	-4.1	-0.0017	mg/L	0.00011	-0.0017	mg/L	0.00011	6.33%
Be 313.107†	96.4	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	58.02%
Ca 315.886†	10659.0	0.0564	mg/L	0.00028	0.0564	mg/L	0.00028	0.49%
Cd 228.802†	-3.1	-0.0012	mg/L	0.00004	-0.0012	mg/L	0.00004	3.42%
Co 228.616†	-20.8	-0.0028	mg/L	0.00040	-0.0028	mg/L	0.00040	14.24%
Cr 267.716†	887.2	0.0042	mg/L	0.00012	0.0042	mg/L	0.00012	2.86%
Cu 324.752†	158.6	-0.0015	mg/L	0.00000	-0.0015	mg/L	0.00000	0.20%
Fe 234.349†	1078.8	0.0118	mg/L	0.00006	0.0118	mg/L	0.00006	0.48%
Fe 238.204†	2306.2	0.0076	mg/L	0.00027	0.0076	mg/L	0.00027	3.52%
K 766.490†	406.5	0.2230	mg/L	0.00487	0.2230	mg/L	0.00487	2.18%
Li 670.784†	72.1	-0.0025	mg/L	0.00038	-0.0025	mg/L	0.00038	15.11%
Mg 279.077†	131.3	-0.0214	mg/L	0.00099	-0.0214	mg/L	0.00099	4.65%
Mn 257.610†	3272.0	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	30.51%
Mo 202.031†	27.6	0.0004	mg/L	0.00029	0.0004	mg/L	0.00029	71.74%
Na 589.592	16673.0	1.795	mg/L	0.0064	1.795	mg/L	0.0064	0.36%
Ni 231.604†	79.7	-0.0017	mg/L	0.00018	-0.0017	mg/L	0.00018	10.53%
P 214.914†	1366.6	0.9589	mg/L	0.01938	0.9589	mg/L	0.01938	2.02%
Pb 220.353†	-17.5	-0.0050	mg/L	0.00028	-0.0050	mg/L	0.00028	5.46%
Sb 206.836†	7.3	0.0013	mg/L	0.00051	0.0013	mg/L	0.00051	39.33%
Se 196.026†	4.1	-0.0056	mg/L	0.00058	-0.0056	mg/L	0.00058	10.35%
Sn 189.927†	-4.3	-0.0031	mg/L	0.00136	-0.0031	mg/L	0.00136	44.14%
Sr 407.771†	844.1	-0.0003	mg/L	0.00000	-0.0003	mg/L	0.00000	0.94%
Ti 337.279†	397.7	0.0004	mg/L	0.00010	0.0004	mg/L	0.00010	28.07%
Tl 190.801†	4.8	0.0001	mg/L	0.00414	0.0001	mg/L	0.00414	>999.9%
V 292.402†	-102.3	-0.0010	mg/L	0.00010	-0.0010	mg/L	0.00010	10.25%
Zn 213.857†	238.0	0.0014	mg/L	0.00009	0.0014	mg/L	0.00009	6.95%

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Sequence No.: 32
Sample ID: BF60914-BS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 34
Date Collected: 6/9/2006 5:18:41 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60914-BS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	40708.9	44511.1	24.17	mg/L	24.17	mg/L	17:20:17
1	Li 670.784†	15563.9	17094.2	0.4859	mg/L	0.4859	mg/L	17:20:17
1	Na 589.592	190780.0	188534.2	22.96	mg/L	22.96	mg/L	17:20:17
1	Y 371.029	2797296.9	2797296.9	0.904	mg/L			17:20:31
1	Ag 328.068†	55445.0	63351.5	0.2386	mg/L	0.2386	mg/L	17:20:37
1	Al 237.313†	17122.7	19159.9	2.340	mg/L	2.340	mg/L	17:20:37
1	As 188.979†	292.1	314.9	0.4248	mg/L	0.4248	mg/L	17:20:57
1	B 182.528†	184.8	210.3	0.4252	mg/L	0.4252	mg/L	17:20:57
1	Ba 233.527†	47984.5	53276.0	0.4744	mg/L	0.4744	mg/L	17:20:37
1	Be 313.107†	190506.1	210749.8	0.0469	mg/L	0.0469	mg/L	17:20:37
1	Ca 315.886†	673338.3	742870.6	4.889	mg/L	4.889	mg/L	17:20:31
1	Cd 228.802†	9067.6	9894.6	0.2335	mg/L	0.2335	mg/L	17:20:57
1	Co 228.616†	17067.3	19071.8	0.4747	mg/L	0.4747	mg/L	17:20:37
1	Cr 267.716†	65761.4	70867.2	0.4787	mg/L	0.4787	mg/L	17:20:37
1	Cu 324.752†	109589.7	118578.4	0.4900	mg/L	0.4900	mg/L	17:20:37
1	Fe 234.349†	114881.7	125809.9	2.431	mg/L	2.431	mg/L	17:20:37
1	Fe 238.204†	256695.2	283265.9	2.442	mg/L	2.442	mg/L	17:20:37
1	Mg 279.077†	102536.4	112812.4	4.622	mg/L	4.622	mg/L	17:20:37
1	Mn 257.610†	395266.8	436027.3	0.4900	mg/L	0.4900	mg/L	17:20:31
1	Mo 202.031†	6473.9	7151.1	0.4883	mg/L	0.4883	mg/L	17:20:57
1	Ni 231.604†	13561.5	14975.2	0.4606	mg/L	0.4606	mg/L	17:20:37
1	P 214.914†	5869.4	6449.9	4.528	mg/L	4.528	mg/L	17:20:57
1	Pb 220.353†	3525.1	4061.8	0.4693	mg/L	0.4693	mg/L	17:20:57
1	Sb 206.836†	890.6	978.2	0.4584	mg/L	0.4584	mg/L	17:20:57
1	Se 196.026†	655.1	736.0	0.8539	mg/L	0.8539	mg/L	17:20:57
1	Sn 189.927†	1800.6	1889.1	0.4899	mg/L	0.4899	mg/L	17:20:57
1	Sr 407.771†	933080.8	1026511.4	0.0489	mg/L	0.0489	mg/L	17:20:31
1	Ti 337.279†	298662.6	332685.0	0.4550	mg/L	0.4550	mg/L	17:20:37
1	Tl 190.801†	518.6	578.8	0.4509	mg/L	0.4509	mg/L	17:20:57
1	V 292.402†	92179.4	103908.8	0.4785	mg/L	0.4785	mg/L	17:20:37
1	Zn 213.857†	34932.0	37996.7	0.4601	mg/L	0.4601	mg/L	17:20:37
2	K 766.490†	40013.6	43546.1	23.64	mg/L	23.64	mg/L	17:20:22
2	Li 670.784†	15311.2	16739.7	0.4757	mg/L	0.4757	mg/L	17:20:22
2	Na 589.592	191352.2	189106.4	23.03	mg/L	23.03	mg/L	17:20:22
2	Y 371.029	2809716.2	2809716.2	0.908	mg/L			17:21:03
2	Ag 328.068†	55746.1	63411.9	0.2389	mg/L	0.2389	mg/L	17:21:09
2	Al 237.313†	17179.4	19138.6	2.337	mg/L	2.337	mg/L	17:21:09
2	As 188.979†	293.4	314.9	0.4248	mg/L	0.4248	mg/L	17:21:29
2	B 182.528†	187.6	212.5	0.4297	mg/L	0.4297	mg/L	17:21:29
2	Ba 233.527†	48207.2	53286.6	0.4745	mg/L	0.4745	mg/L	17:21:09
2	Be 313.107†	191535.6	210952.2	0.0469	mg/L	0.0469	mg/L	17:21:09
2	Ca 315.886†	675323.5	741764.5	4.881	mg/L	4.881	mg/L	17:21:03
2	Cd 228.802†	9083.1	9867.4	0.2328	mg/L	0.2328	mg/L	17:21:29
2	Co 228.616†	17087.5	19010.5	0.4732	mg/L	0.4732	mg/L	17:21:09
2	Cr 267.716†	66183.0	71010.0	0.4796	mg/L	0.4796	mg/L	17:21:09
2	Cu 324.752†	110408.0	118943.9	0.4915	mg/L	0.4915	mg/L	17:21:09
2	Fe 234.349†	115267.2	125672.6	2.428	mg/L	2.428	mg/L	17:21:09
2	Fe 238.204†	257624.9	283034.6	2.440	mg/L	2.440	mg/L	17:21:09
2	Mg 279.077†	103201.8	113043.9	4.632	mg/L	4.632	mg/L	17:21:09
2	Mn 257.610†	396200.0	435122.2	0.4890	mg/L	0.4890	mg/L	17:21:03
2	Mo 202.031†	6465.4	7110.2	0.4855	mg/L	0.4855	mg/L	17:21:29
2	Ni 231.604†	13784.5	15154.6	0.4662	mg/L	0.4662	mg/L	17:21:09
2	P 214.914†	5848.2	6397.8	4.491	mg/L	4.491	mg/L	17:21:29
2	Pb 220.353†	3523.5	4042.7	0.4670	mg/L	0.4670	mg/L	17:21:29
2	Sb 206.836†	884.4	967.0	0.4530	mg/L	0.4530	mg/L	17:21:29
2	Se 196.026†	662.4	740.9	0.8597	mg/L	0.8597	mg/L	17:21:29
2	Sn 189.927†	1793.6	1872.5	0.4856	mg/L	0.4856	mg/L	17:21:29
2	Sr 407.771†	935847.6	1024995.9	0.0488	mg/L	0.0488	mg/L	17:21:03
2	Ti 337.279†	300645.3	333408.4	0.4560	mg/L	0.4560	mg/L	17:21:09
2	Tl 190.801†	534.6	593.9	0.4627	mg/L	0.4627	mg/L	17:21:29
2	V 292.402†	93205.8	104588.5	0.4815	mg/L	0.4815	mg/L	17:21:09
2	Zn 213.857†	35166.3	38083.8	0.4612	mg/L	0.4612	mg/L	17:21:09

Mean Data: BF60914-BS1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD

Y 371.029	2803506.6	0.906 mg/L	0.0028			0.31%
Ag 328.068†	63381.7	0.2387 mg/L	0.00016	0.2387 mg/L	0.00016	0.07%
Al 237.313†	19149.2	2.338 mg/L	0.0018	2.338 mg/L	0.0018	0.08%
As 188.979†	314.9	0.4248 mg/L	0.00001	0.4248 mg/L	0.00001	0.00%
B 182.528†	211.4	0.4275 mg/L	0.00319	0.4275 mg/L	0.00319	0.75%
Ba 233.527†	53281.3	0.4744 mg/L	0.00006	0.4744 mg/L	0.00006	0.01%
Be 313.107†	210851.0	0.0469 mg/L	0.00003	0.0469 mg/L	0.00003	0.07%
Ca 315.886†	742317.6	4.885 mg/L	0.0051	4.885 mg/L	0.0051	0.11%
Cd 228.802†	9881.0	0.2332 mg/L	0.00046	0.2332 mg/L	0.00046	0.20%
Co 228.616†	19041.1	0.4739 mg/L	0.00109	0.4739 mg/L	0.00109	0.23%
Cr 267.716†	70938.6	0.4792 mg/L	0.00069	0.4792 mg/L	0.00069	0.14%
Cu 324.752†	118761.2	0.4907 mg/L	0.00107	0.4907 mg/L	0.00107	0.22%
Fe 234.349†	125741.3	2.430 mg/L	0.0019	2.430 mg/L	0.0019	0.08%
Fe 238.204†	283150.2	2.441 mg/L	0.0014	2.441 mg/L	0.0014	0.06%
K 766.490†	44028.6	23.91 mg/L	0.370	23.91 mg/L	0.370	1.55%
Li 670.784†	16916.9	0.4808 mg/L	0.00719	0.4808 mg/L	0.00719	1.50%
Mg 279.077†	112928.1	4.627 mg/L	0.0067	4.627 mg/L	0.0067	0.15%
Mn 257.610†	435574.8	0.4895 mg/L	0.00072	0.4895 mg/L	0.00072	0.15%
Mo 202.031†	7130.6	0.4869 mg/L	0.00198	0.4869 mg/L	0.00198	0.41%
Na 589.592	188820.3	22.99 mg/L	0.050	22.99 mg/L	0.050	0.22%
Ni 231.604†	15064.9	0.4634 mg/L	0.00393	0.4634 mg/L	0.00393	0.85%
P 214.914†	6423.9	4.510 mg/L	0.0258	4.510 mg/L	0.0258	0.57%
Pb 220.353†	4052.3	0.4682 mg/L	0.00157	0.4682 mg/L	0.00157	0.33%
Sb 206.836†	972.6	0.4557 mg/L	0.00380	0.4557 mg/L	0.00380	0.83%
Se 196.026†	738.5	0.8568 mg/L	0.00405	0.8568 mg/L	0.00405	0.47%
Sn 189.927†	1880.8	0.4877 mg/L	0.00304	0.4877 mg/L	0.00304	0.62%
Sr 407.771†	1025753.7	0.0489 mg/L	0.00005	0.0489 mg/L	0.00005	0.11%
Ti 337.279†	333046.7	0.4555 mg/L	0.00070	0.4555 mg/L	0.00070	0.15%
Tl 190.801†	586.4	0.4568 mg/L	0.00830	0.4568 mg/L	0.00830	1.82%
V 292.402†	104248.6	0.4800 mg/L	0.00215	0.4800 mg/L	0.00215	0.45%
Zn 213.857†	38040.3	0.4607 mg/L	0.00073	0.4607 mg/L	0.00073	0.16%

Matrix Recovery Check: BF60914-BS1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	25.22	23.91	0.370	mg/L	94.7
Li 670.784	0.4975	0.4808	0.007	mg/L	96.7
Na 589.592	26.80	22.99	0.050	mg/L	84.8
Ag 328.068	0.2486	0.2387	0.000	mg/L	96.1
Al 237.313	2.503	2.338	0.002	mg/L	93.4
As 188.979	0.4953	0.4248	0.000	mg/L	85.9
B 182.528	0.5096	0.4275	0.003	mg/L	83.6
Ba 233.527	0.4983	0.4744	0.000	mg/L	95.2
Be 313.107	0.0500	0.0469	0.000	mg/L	93.9
Ca 315.886	5.056	4.885	0.005	mg/L	96.6
Cd 228.802	0.2488	0.2332	0.000	mg/L	93.7
Co 228.616	0.4972	0.4739	0.001	mg/L	95.3
Cr 267.716	0.5042	0.4792	0.001	mg/L	95.0
Cu 324.752	0.4985	0.4907	0.001	mg/L	98.5
Fe 234.349	2.512	2.430	0.002	mg/L	96.7
Fe 238.204	2.508	2.441	0.001	mg/L	97.4
Mg 279.077	4.979	4.627	0.007	mg/L	93.0
Mn 257.610	0.5002	0.4895	0.001	mg/L	97.9
Mo 202.031	0.5004	0.4869	0.002	mg/L	97.3
Ni 231.604	0.4983	0.4634	0.004	mg/L	93.0
P 214.914	5.959	4.510	0.026	mg/L	71.0
Pb 220.353	0.4950	0.4682	0.002	mg/L	94.6
Sb 206.836	0.5013	0.4557	0.004	mg/L	90.9
Se 196.026	0.9944	0.8568	0.004	mg/L	86.2
Sn 189.927	0.4969	0.4877	0.003	mg/L	98.2
Sr 407.771	0.0497	0.0489	0.000	mg/L	98.2
Ti 337.279	0.5004	0.4555	0.001	mg/L	91.0
Tl 190.801	0.5001	0.4568	0.008	mg/L	91.3
V 292.402	0.4990	0.4800	0.002	mg/L	96.2
Zn 213.857	0.5014	0.4607	0.001	mg/L	91.9

Sequence No.: 33
Sample ID: BF60914-BSD1
Analyst:
Initial Sample Wt:

Autosampler Location: 35
Date Collected: 6/9/2006 5:23:08 PM
Data Type: Original
Initial Sample Vol:

Dilution: Sample Prep Vol:

Replicate Data: BF60914-BSD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	40732.9	44731.8	24.29	mg/L	24.29	mg/L	17:24:44
1	Li 670.784†	15598.1	17206.3	0.4891	mg/L	0.4891	mg/L	17:24:44
1	Na 589.592	190726.6	188480.8	22.95	mg/L	22.95	mg/L	17:24:44
1	Y 371.029	2785303.0	2785303.0	0.900	mg/L			17:24:58
1	Ag 328.068†	56032.2	64268.1	0.2421	mg/L	0.2421	mg/L	17:25:04
1	Al 237.313†	17222.9	19352.7	2.363	mg/L	2.363	mg/L	17:25:04
1	As 188.979†	288.4	312.2	0.4212	mg/L	0.4212	mg/L	17:25:24
1	B 182.528†	185.2	211.6	0.4280	mg/L	0.4280	mg/L	17:25:24
1	Ba 233.527†	48397.7	53963.8	0.4805	mg/L	0.4805	mg/L	17:25:04
1	Be 313.107†	191965.9	213279.5	0.0475	mg/L	0.0475	mg/L	17:25:04
1	Ca 315.886†	672950.1	745647.2	4.907	mg/L	4.907	mg/L	17:24:58
1	Cd 228.802†	9078.8	9950.3	0.2349	mg/L	0.2349	mg/L	17:25:24
1	Co 228.616†	17096.8	19185.8	0.4776	mg/L	0.4776	mg/L	17:25:04
1	Cr 267.716†	66377.7	71865.4	0.4854	mg/L	0.4854	mg/L	17:25:04
1	Cu 324.752†	111093.3	120771.3	0.4991	mg/L	0.4991	mg/L	17:25:04
1	Fe 234.349†	114883.4	126359.0	2.442	mg/L	2.442	mg/L	17:25:04
1	Fe 238.204†	257619.2	285515.6	2.462	mg/L	2.462	mg/L	17:25:04
1	Mg 279.077†	103273.1	114119.5	4.676	mg/L	4.676	mg/L	17:25:04
1	Mn 257.610†	393806.1	436287.4	0.4903	mg/L	0.4903	mg/L	17:24:58
1	Mo 202.031†	6470.1	7177.8	0.4901	mg/L	0.4901	mg/L	17:25:24
1	Ni 231.604†	13848.0	15358.2	0.4725	mg/L	0.4725	mg/L	17:25:04
1	P 214.914†	5853.0	6459.7	4.535	mg/L	4.535	mg/L	17:25:24
1	Pb 220.353†	3524.3	4077.6	0.4711	mg/L	0.4711	mg/L	17:25:24
1	Sb 206.836†	885.3	976.5	0.4575	mg/L	0.4575	mg/L	17:25:24
1	Se 196.026†	647.4	730.6	0.8475	mg/L	0.8475	mg/L	17:25:24
1	Sn 189.927†	1779.1	1873.8	0.4859	mg/L	0.4859	mg/L	17:25:24
1	Sr 407.771†	936589.2	1034855.3	0.0493	mg/L	0.0493	mg/L	17:24:58
1	Ti 337.279†	300724.2	336398.7	0.4601	mg/L	0.4601	mg/L	17:25:04
1	Tl 190.801†	526.4	589.9	0.4595	mg/L	0.4595	mg/L	17:25:24
1	V 292.402†	93422.6	105729.3	0.4868	mg/L	0.4868	mg/L	17:25:04
1	Zn 213.857†	34959.9	38194.1	0.4625	mg/L	0.4625	mg/L	17:25:04
2	K 766.490†	40325.5	44403.1	24.11	mg/L	24.11	mg/L	17:24:49
2	Li 670.784†	15423.1	17059.3	0.4849	mg/L	0.4849	mg/L	17:24:49
2	Na 589.592	187778.7	185532.9	22.59	mg/L	22.59	mg/L	17:24:49
2	Y 371.029	2777610.2	2777610.2	0.897	mg/L			17:25:31
2	Ag 328.068†	55481.4	63826.7	0.2404	mg/L	0.2404	mg/L	17:25:36
2	Al 237.313†	17116.0	19286.7	2.355	mg/L	2.355	mg/L	17:25:36
2	As 188.979†	299.1	325.1	0.4387	mg/L	0.4387	mg/L	17:25:56
2	B 182.528†	192.2	220.1	0.4451	mg/L	0.4451	mg/L	17:25:56
2	Ba 233.527†	48000.1	53669.6	0.4779	mg/L	0.4779	mg/L	17:25:36
2	Be 313.107†	190067.0	211754.4	0.0471	mg/L	0.0471	mg/L	17:25:36
2	Ca 315.886†	670250.4	744710.1	4.901	mg/L	4.901	mg/L	17:25:31
2	Cd 228.802†	9084.2	9984.2	0.2355	mg/L	0.2355	mg/L	17:25:56
2	Co 228.616†	17003.8	19134.9	0.4763	mg/L	0.4763	mg/L	17:25:36
2	Cr 267.716†	65814.5	71442.1	0.4826	mg/L	0.4826	mg/L	17:25:36
2	Cu 324.752†	110396.8	120337.1	0.4973	mg/L	0.4973	mg/L	17:25:36
2	Fe 234.349†	114068.5	125804.6	2.431	mg/L	2.431	mg/L	17:25:36
2	Fe 238.204†	255829.6	284314.3	2.451	mg/L	2.451	mg/L	17:25:36
2	Mg 279.077†	102385.6	113448.4	4.649	mg/L	4.649	mg/L	17:25:36
2	Mn 257.610†	392668.0	436231.3	0.4903	mg/L	0.4903	mg/L	17:25:31
2	Mo 202.031†	6444.4	7169.1	0.4895	mg/L	0.4895	mg/L	17:25:56
2	Ni 231.604†	13641.5	15170.8	0.4667	mg/L	0.4667	mg/L	17:25:36
2	P 214.914†	5847.8	6471.9	4.543	mg/L	4.543	mg/L	17:25:56
2	Pb 220.353†	3505.9	4067.9	0.4700	mg/L	0.4700	mg/L	17:25:56
2	Sb 206.836†	879.4	972.7	0.4557	mg/L	0.4557	mg/L	17:25:56
2	Se 196.026†	662.0	748.8	0.8690	mg/L	0.8690	mg/L	17:25:56
2	Sn 189.927†	1787.7	1888.8	0.4898	mg/L	0.4898	mg/L	17:25:56
2	Sr 407.771†	933741.5	1034564.6	0.0493	mg/L	0.0493	mg/L	17:25:31
2	Ti 337.279†	298155.2	334461.7	0.4575	mg/L	0.4575	mg/L	17:25:36
2	Tl 190.801†	537.9	604.3	0.4708	mg/L	0.4708	mg/L	17:25:56
2	V 292.402†	92648.9	105154.7	0.4842	mg/L	0.4842	mg/L	17:25:36
2	Zn 213.857†	34699.9	38012.0	0.4603	mg/L	0.4603	mg/L	17:25:36

Mean Data: BF60914-BSD1

Mean Corrected	Calib	Sample

Analyte	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	Std.Dev.	RSD
Y 371.029	2781456.6	0.899	mg/L	0.0018				0.20%
Ag 328.068†	64047.4	0.2413	mg/L	0.00118	0.2413	mg/L	0.00118	0.49%
Al 237.313†	19319.7	2.359	mg/L	0.0057	2.359	mg/L	0.0057	0.24%
As 188.979†	318.6	0.4299	mg/L	0.01242	0.4299	mg/L	0.01242	2.89%
B 182.528†	215.9	0.4365	mg/L	0.01212	0.4365	mg/L	0.01212	2.78%
Ba 233.527†	53816.7	0.4792	mg/L	0.00186	0.4792	mg/L	0.00186	0.39%
Be 313.107†	212517.0	0.0473	mg/L	0.00024	0.0473	mg/L	0.00024	0.51%
Ca 315.886†	745178.7	4.904	mg/L	0.0044	4.904	mg/L	0.0044	0.09%
Cd 228.802†	9967.2	0.2352	mg/L	0.00049	0.2352	mg/L	0.00049	0.21%
Co 228.616†	19160.4	0.4769	mg/L	0.00090	0.4769	mg/L	0.00090	0.19%
Cr 267.716†	71653.7	0.4840	mg/L	0.00203	0.4840	mg/L	0.00203	0.42%
Cu 324.752†	120554.2	0.4982	mg/L	0.00128	0.4982	mg/L	0.00128	0.26%
Fe 234.349†	126081.8	2.436	mg/L	0.0076	2.436	mg/L	0.0076	0.31%
Fe 238.204†	284915.0	2.457	mg/L	0.0074	2.457	mg/L	0.0074	0.30%
K 766.490†	44567.4	24.20	mg/L	0.126	24.20	mg/L	0.126	0.52%
Li 670.784†	17132.8	0.4870	mg/L	0.00298	0.4870	mg/L	0.00298	0.61%
Mg 279.077†	113783.9	4.662	mg/L	0.0195	4.662	mg/L	0.0195	0.42%
Mn 257.610†	436259.4	0.4903	mg/L	0.00005	0.4903	mg/L	0.00005	0.01%
Mo 202.031†	7173.4	0.4898	mg/L	0.00042	0.4898	mg/L	0.00042	0.09%
Na 589.592	187006.8	22.77	mg/L	0.257	22.77	mg/L	0.257	1.13%
Ni 231.604†	15264.5	0.4696	mg/L	0.00411	0.4696	mg/L	0.00411	0.88%
P 214.914†	6465.8	4.539	mg/L	0.0061	4.539	mg/L	0.0061	0.13%
Pb 220.353†	4072.8	0.4705	mg/L	0.00080	0.4705	mg/L	0.00080	0.17%
Sb 206.836†	974.6	0.4566	mg/L	0.00125	0.4566	mg/L	0.00125	0.27%
Se 196.026†	739.7	0.8582	mg/L	0.01517	0.8582	mg/L	0.01517	1.77%
Sn 189.927†	1881.3	0.4879	mg/L	0.00276	0.4879	mg/L	0.00276	0.57%
Sr 407.771†	1034710.0	0.0493	mg/L	0.00001	0.0493	mg/L	0.00001	0.02%
Ti 337.279†	335430.2	0.4588	mg/L	0.00187	0.4588	mg/L	0.00187	0.41%
Tl 190.801†	597.1	0.4652	mg/L	0.00797	0.4652	mg/L	0.00797	1.71%
V 292.402†	105442.0	0.4855	mg/L	0.00185	0.4855	mg/L	0.00185	0.38%
Zn 213.857†	38103.0	0.4614	mg/L	0.00155	0.4614	mg/L	0.00155	0.34%

Duplicate Check: BF60914-BSD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	23.91	24.20	0.126	mg/L	1.2
Li 670.784	0.4808	0.4870	0.003	mg/L	1.3
Na 589.592	22.99	22.77	0.257	mg/L	1.0
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.2387	0.2413	0.001	mg/L	1.0
Al 237.313	2.338	2.359	0.006	mg/L	0.9
As 188.979	0.4248	0.4299	0.012	mg/L	1.2
B 182.528	0.4275	0.4365	0.012	mg/L	2.1
Ba 233.527	0.4744	0.4792	0.002	mg/L	1.0
Be 313.107	0.0469	0.0473	0.000	mg/L	0.8
Ca 315.886	4.885	4.904	0.004	mg/L	0.4
Cd 228.802	0.2332	0.2352	0.000	mg/L	0.9
Co 228.616	0.4739	0.4769	0.001	mg/L	0.6
Cr 267.716	0.4792	0.4840	0.002	mg/L	1.0
Cu 324.752	0.4907	0.4982	0.001	mg/L	1.5
Fe 234.349	2.430	2.436	0.008	mg/L	0.3
Fe 238.204	2.441	2.457	0.007	mg/L	0.6
Mg 279.077	4.627	4.662	0.020	mg/L	0.8
Mn 257.610	0.4895	0.4903	0.000	mg/L	0.2
Mo 202.031	0.4869	0.4898	0.000	mg/L	0.6
Ni 231.604	0.4634	0.4696	0.004	mg/L	1.3
P 214.914	4.510	4.539	0.006	mg/L	0.7
Pb 220.353	0.4682	0.4705	0.001	mg/L	0.5
Sb 206.836	0.4557	0.4566	0.001	mg/L	0.2
Se 196.026	0.8568	0.8582	0.015	mg/L	0.2
Sn 189.927	0.4877	0.4879	0.003	mg/L	0.0
Sr 407.771	0.0489	0.0493	0.000	mg/L	0.9
Ti 337.279	0.4555	0.4588	0.002	mg/L	0.7
Tl 190.801	0.4568	0.4652	0.008	mg/L	1.8
V 292.402	0.4800	0.4855	0.002	mg/L	1.1
Zn 213.857	0.4607	0.4614	0.002	mg/L	0.2

Sequence No.: 34
Sample ID: BF60914-SRM1

Autosampler Location: 36
Date Collected: 6/9/2006 5:27:36 PM

Analyst:
Initial Sample Wt:
Dilution:

Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60914-SRM1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	36104.7	37750.4	20.50	mg/L	20.50	mg/L	17:29:12
1	Li 670.784†	1975.3	1968.6	0.0519	mg/L	0.0519	mg/L	17:29:12
1	Na 589.592	95912.8	93666.9	11.28	mg/L	11.28	mg/L	17:29:12
1	Y 371.029	2919085.4	2919085.4	0.943	mg/L			17:29:36
1	Ag 328.068†	223362.5	238824.2	0.9035	mg/L	0.9035	mg/L	17:29:42
1	Al 237.313†	370441.3	392970.5	47.80	mg/L	47.80	mg/L	17:29:42
1	As 188.979†	886.7	931.8	1.265	mg/L	1.265	mg/L	17:30:02
1	B 182.528†	378.6	407.3	0.8266	mg/L	0.8266	mg/L	17:30:02
1	Ba 233.527†	343203.0	364062.2	3.251	mg/L	3.251	mg/L	17:29:42
1	Be 313.107†	2479610.5	2628946.2	0.5895	mg/L	0.5895	mg/L	17:29:36
1	Ca 315.886†	5212949.6	5524847.0	36.44	mg/L	36.44	mg/L	17:29:30
1	Cd 228.802†	33614.3	35501.3	0.8365	mg/L	0.8365	mg/L	17:29:42
1	Co 228.616†	20164.7	21567.9	0.5346	mg/L	0.5346	mg/L	17:29:42
1	Cr 267.716†	228935.1	240834.3	1.636	mg/L	1.636	mg/L	17:29:42
1	Cu 324.752†	152578.7	159098.3	0.6746	mg/L	0.6746	mg/L	17:29:42
1	Fe 234.349†	4328101.3	4587512.7	89.15	mg/L	89.15	mg/L	17:29:30
1	Fe 238.204†	9344989.0	9907150.4	85.82	mg/L	85.82	mg/L	17:29:30
1	Mg 279.077†	405050.6	428815.5	17.61	mg/L	17.61	mg/L	17:29:36
1	Mn 257.610†	1567075.8	1660175.5	1.875	mg/L	1.875	mg/L	17:29:36
1	Mo 202.031†	3574.9	3778.7	0.2573	mg/L	0.2573	mg/L	17:30:02
1	Ni 231.604†	23372.6	24751.4	0.7637	mg/L	0.7637	mg/L	17:29:42
1	P 214.914†	12482.3	13190.2	9.261	mg/L	9.261	mg/L	17:30:02
1	Pb 220.353†	4843.3	5296.6	0.6172	mg/L	0.6172	mg/L	17:30:02
1	Sb 206.836†	1529.9	1614.9	0.7445	mg/L	0.7445	mg/L	17:30:02
1	Se 196.026†	512.7	554.8	0.6411	mg/L	0.6411	mg/L	17:30:02
1	Sn 189.927†	3388.6	3489.5	0.9109	mg/L	0.9109	mg/L	17:30:02
1	Sr 407.771†	6031596.6	6389068.6	0.3058	mg/L	0.3058	mg/L	17:29:30
1	Ti 337.279†	1146983.3	1218318.5	1.667	mg/L	1.667	mg/L	17:29:36
1	Tl 190.801†	864.8	921.9	0.7365	mg/L	0.7365	mg/L	17:30:02
1	V 292.402†	268551.2	286649.4	1.291	mg/L	1.291	mg/L	17:29:42
1	Zn 213.857†	282330.7	298685.1	3.636	mg/L	3.636	mg/L	17:29:42
2	K 766.490†	36030.5	37350.6	20.28	mg/L	20.28	mg/L	17:29:17
2	Li 670.784†	1924.0	1897.1	0.0499	mg/L	0.0499	mg/L	17:29:17
2	Na 589.592	95256.4	93010.6	11.19	mg/L	11.19	mg/L	17:29:17
2	Y 371.029	2943837.8	2943837.8	0.951	mg/L			17:30:18
2	Ag 328.068†	222121.1	235527.9	0.8911	mg/L	0.8911	mg/L	17:30:24
2	Al 237.313†	369872.2	389069.7	47.33	mg/L	47.33	mg/L	17:30:24
2	As 188.979†	899.4	937.3	1.273	mg/L	1.273	mg/L	17:30:44
2	B 182.528†	392.4	418.4	0.8492	mg/L	0.8492	mg/L	17:30:44
2	Ba 233.527†	341842.3	359572.1	3.211	mg/L	3.211	mg/L	17:30:24
2	Be 313.107†	2502234.1	2630625.8	0.5898	mg/L	0.5898	mg/L	17:30:18
2	Ca 315.886†	5196592.4	5461178.4	36.02	mg/L	36.02	mg/L	17:30:12
2	Cd 228.802†	33343.9	34917.4	0.8226	mg/L	0.8226	mg/L	17:30:24
2	Co 228.616†	20041.3	21258.4	0.5269	mg/L	0.5269	mg/L	17:30:24
2	Cr 267.716†	228511.0	238347.5	1.619	mg/L	1.619	mg/L	17:30:24
2	Cu 324.752†	151492.3	156595.9	0.6641	mg/L	0.6641	mg/L	17:30:24
2	Fe 234.349†	4326302.0	4547037.3	88.36	mg/L	88.36	mg/L	17:30:12
2	Fe 238.204†	9333590.4	9811858.9	85.00	mg/L	85.00	mg/L	17:30:12
2	Mg 279.077†	407832.7	428129.6	17.59	mg/L	17.59	mg/L	17:30:18
2	Mn 257.610†	1576266.3	1655867.5	1.871	mg/L	1.871	mg/L	17:30:18
2	Mo 202.031†	3556.8	3727.7	0.2538	mg/L	0.2538	mg/L	17:30:44
2	Ni 231.604†	23213.9	24376.2	0.7520	mg/L	0.7520	mg/L	17:30:24
2	P 214.914†	12514.7	13113.0	9.206	mg/L	9.206	mg/L	17:30:44
2	Pb 220.353†	4843.2	5253.4	0.6122	mg/L	0.6122	mg/L	17:30:44
2	Sb 206.836†	1519.5	1590.3	0.7330	mg/L	0.7330	mg/L	17:30:44
2	Se 196.026†	522.8	560.9	0.6483	mg/L	0.6483	mg/L	17:30:44
2	Sn 189.927†	3398.8	3470.1	0.9058	mg/L	0.9058	mg/L	17:30:44
2	Sr 407.771†	6028052.1	6331572.3	0.3031	mg/L	0.3031	mg/L	17:30:12
2	Ti 337.279†	1157353.5	1218995.9	1.668	mg/L	1.668	mg/L	17:30:18
2	Tl 190.801†	875.5	925.4	0.7393	mg/L	0.7393	mg/L	17:30:44
2	V 292.402†	268180.7	283865.8	1.278	mg/L	1.278	mg/L	17:30:24
2	Zn 213.857†	282483.2	296328.5	3.607	mg/L	3.607	mg/L	17:30:24

Mean Data: BF60914-SRM1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2931461.6	0.947	mg/L	0.0057				0.60%
Ag 328.068†	237176.1	0.8973	mg/L	0.00881	0.8973	mg/L	0.00881	0.98%
Al 237.313†	391020.1	47.57	mg/L	0.336	47.57	mg/L	0.336	0.71%
As 188.979†	934.6	1.269	mg/L	0.0053	1.269	mg/L	0.0053	0.42%
B 182.528†	412.9	0.8379	mg/L	0.01595	0.8379	mg/L	0.01595	1.90%
Ba 233.527†	361817.2	3.231	mg/L	0.0284	3.231	mg/L	0.0284	0.88%
Be 313.107†	2629786.0	0.5897	mg/L	0.00026	0.5897	mg/L	0.00026	0.04%
Ca 315.886†	5493012.7	36.23	mg/L	0.297	36.23	mg/L	0.297	0.82%
Cd 228.802†	35209.4	0.8295	mg/L	0.00985	0.8295	mg/L	0.00985	1.19%
Co 228.616†	21413.2	0.5308	mg/L	0.00548	0.5308	mg/L	0.00548	1.03%
Cr 267.716†	239590.9	1.628	mg/L	0.0120	1.628	mg/L	0.0120	0.73%
Cu 324.752†	157847.1	0.6694	mg/L	0.00743	0.6694	mg/L	0.00743	1.11%
Fe 234.349†	4567275.0	88.76	mg/L	0.556	88.76	mg/L	0.556	0.63%
Fe 238.204†	9859504.7	85.41	mg/L	0.584	85.41	mg/L	0.584	0.68%
K 766.490†	37550.5	20.39	mg/L	0.154	20.39	mg/L	0.154	0.75%
Li 670.784†	1932.8	0.0509	mg/L	0.00145	0.0509	mg/L	0.00145	2.85%
Mg 279.077†	428472.6	17.60	mg/L	0.020	17.60	mg/L	0.020	0.11%
Mn 257.610†	1658021.5	1.873	mg/L	0.0034	1.873	mg/L	0.0034	0.18%
Mo 202.031†	3753.2	0.2556	mg/L	0.00247	0.2556	mg/L	0.00247	0.97%
Na 589.592	93338.8	11.24	mg/L	0.057	11.24	mg/L	0.057	0.51%
Ni 231.604†	24563.8	0.7578	mg/L	0.00823	0.7578	mg/L	0.00823	1.09%
P 214.914†	13151.6	9.233	mg/L	0.0383	9.233	mg/L	0.0383	0.42%
Pb 220.353†	5275.0	0.6147	mg/L	0.00359	0.6147	mg/L	0.00359	0.58%
Sb 206.836†	1602.6	0.7388	mg/L	0.00814	0.7388	mg/L	0.00814	1.10%
Se 196.026†	557.8	0.6447	mg/L	0.00508	0.6447	mg/L	0.00508	0.79%
Sn 189.927†	3479.8	0.9083	mg/L	0.00360	0.9083	mg/L	0.00360	0.40%
Sr 407.771†	6360320.4	0.3045	mg/L	0.00195	0.3045	mg/L	0.00195	0.64%
Ti 337.279†	1218657.2	1.667	mg/L	0.0007	1.667	mg/L	0.0007	0.04%
Tl 190.801†	923.7	0.7379	mg/L	0.00197	0.7379	mg/L	0.00197	0.27%
V 292.402†	285257.6	1.285	mg/L	0.0089	1.285	mg/L	0.0089	0.69%
Zn 213.857†	297506.8	3.621	mg/L	0.0203	3.621	mg/L	0.0203	0.56%

Sequence No.: 35
Sample ID: 0606113-01
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 37
Date Collected: 6/9/2006 5:32:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606113-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	14826.2	15214.4	8.262	mg/L	8.262	mg/L	17:34:02
1	Li 670.784†	4520.9	4674.9	0.1296	mg/L	0.1296	mg/L	17:34:02
1	Na 589.592	55053.4	52807.5	6.245	mg/L	6.245	mg/L	17:34:02
1	Y 371.029	2914584.5	2914584.5	0.942	mg/L			17:34:31
1	Ag 328.068†	93806.3	101617.7	0.3876	mg/L	0.3876	mg/L	17:34:37
1	Al 237.313†	531229.7	564313.8	68.64	mg/L	68.64	mg/L	17:34:31
1	As 188.979†	57.3	52.6	0.0646	mg/L	0.0646	mg/L	17:34:57
1	B 182.528†	24.4	31.8	0.0615	mg/L	0.0615	mg/L	17:34:57
1	Ba 233.527†	107434.9	114268.4	1.019	mg/L	1.019	mg/L	17:34:37
1	Be 313.107†	22922.1	24314.9	0.0028	mg/L	0.0028	mg/L	17:34:37
1	Ca 315.886†	5578904.3	5921979.6	39.05	mg/L	39.05	mg/L	17:34:31
1	Cd 228.802†	323.5	205.8	0.0046	mg/L	0.0046	mg/L	17:34:57
1	Co 228.616†	2416.2	2754.3	0.0602	mg/L	0.0602	mg/L	17:34:57
1	Cr 267.716†	22498.3	21999.4	0.1533	mg/L	0.1533	mg/L	17:34:37
1	Cu 324.752†	468698.8	495027.4	2.075	mg/L	2.075	mg/L	17:34:31
1	Fe 234.349†	6172657.3	6553283.3	127.4	mg/L	127.4	mg/L	17:34:31
1	Fe 238.204†	13039138.0	13845167.8	119.9	mg/L	119.9	mg/L	17:34:22
1	Mg 279.077†	578830.7	614011.1	25.23	mg/L	25.23	mg/L	17:34:31
1	Mn 257.610†	2284926.1	2425007.0	2.741	mg/L	2.741	mg/L	17:34:31
1	Mo 202.031†	215.6	217.4	0.0134	mg/L	0.0134	mg/L	17:34:57
1	Ni 231.604†	5783.5	6112.2	0.1854	mg/L	0.1854	mg/L	17:34:37
1	P 214.914†	9528.5	10074.1	7.073	mg/L	7.073	mg/L	17:34:57
1	Pb 220.353†	25064.5	26776.9	3.110	mg/L	3.110	mg/L	17:34:37
1	Sb 206.836†	34.2	29.1	0.0064	mg/L	0.0064	mg/L	17:34:57
1	Se 196.026†	-2.1	9.0	0.0001	mg/L	0.0001	mg/L	17:34:57
1	Sn 189.927†	336.2	253.8	0.0723	mg/L	0.0723	mg/L	17:34:57

1	Sr 407.771†	7910825.2	8394446.1	0.4019 mg/L	0.4019 mg/L	17:34:22
1	Ti 337.279†	2092157.2	2223851.1	3.043 mg/L	3.043 mg/L	17:34:31
1	Tl 190.801†	-34.2	-31.3	0.0123 mg/L	0.0123 mg/L	17:34:57
1	V 292.402†	45636.9	50382.4	0.2080 mg/L	0.2080 mg/L	17:34:37
1	Zn 213.857†	131069.8	138527.5	1.679 mg/L	1.679 mg/L	17:34:37
2	K 766.490†	14566.1	14835.2	8.056 mg/L	8.056 mg/L	17:34:07
2	Li 670.784†	4454.5	4572.9	0.1267 mg/L	0.1267 mg/L	17:34:07
2	Na 589.592	55436.9	53191.1	6.292 mg/L	6.292 mg/L	17:34:07
2	Y 371.029	2934127.4	2934127.4	0.948 mg/L		17:35:18
2	Ag 328.068†	95338.2	102570.0	0.3912 mg/L	0.3912 mg/L	17:35:23
2	Al 237.313†	534916.8	564445.8	68.66 mg/L	68.66 mg/L	17:35:18
2	As 188.979†	56.6	51.5	0.0630 mg/L	0.0630 mg/L	17:35:44
2	B 182.528†	23.2	30.4	0.0586 mg/L	0.0586 mg/L	17:35:44
2	Ba 233.527†	109733.5	115933.1	1.034 mg/L	1.034 mg/L	17:35:23
2	Be 313.107†	23231.4	24479.1	0.0029 mg/L	0.0029 mg/L	17:35:23
2	Ca 315.886†	5617878.3	5923631.7	39.06 mg/L	39.06 mg/L	17:35:18
2	Cd 228.802†	345.2	226.4	0.0051 mg/L	0.0051 mg/L	17:35:44
2	Co 228.616†	2394.8	2714.6	0.0592 mg/L	0.0592 mg/L	17:35:44
2	Cr 267.716†	22982.9	22351.5	0.1556 mg/L	0.1556 mg/L	17:35:23
2	Cu 324.752†	472056.0	495253.6	2.076 mg/L	2.076 mg/L	17:35:18
2	Fe 234.349†	6216087.1	6555436.1	127.4 mg/L	127.4 mg/L	17:35:18
2	Fe 238.204†	13042658.9	13756660.4	119.2 mg/L	119.2 mg/L	17:35:09
2	Mg 279.077†	583189.3	614514.7	25.25 mg/L	25.25 mg/L	17:35:18
2	Mn 257.610†	2301079.8	2425885.4	2.742 mg/L	2.742 mg/L	17:35:18
2	Mo 202.031†	205.2	204.9	0.0125 mg/L	0.0125 mg/L	17:35:44
2	Ni 231.604†	5964.8	6262.5	0.1900 mg/L	0.1900 mg/L	17:35:23
2	P 214.914†	9472.4	9947.5	6.984 mg/L	6.984 mg/L	17:35:44
2	Pb 220.353†	25581.6	27145.1	3.152 mg/L	3.152 mg/L	17:35:23
2	Sb 206.836†	26.9	21.2	0.0026 mg/L	0.0026 mg/L	17:35:44
2	Se 196.026†	-2.0	9.2	0.0003 mg/L	0.0003 mg/L	17:35:44
2	Sn 189.927†	320.1	234.5	0.0673 mg/L	0.0673 mg/L	17:35:44
2	Sr 407.771†	7900572.7	8327681.3	0.3987 mg/L	0.3987 mg/L	17:35:09
2	Ti 337.279†	2106515.0	2224198.6	3.043 mg/L	3.043 mg/L	17:35:18
2	Tl 190.801†	-34.2	-31.1	0.0125 mg/L	0.0125 mg/L	17:35:44
2	V 292.402†	46566.0	51039.6	0.2110 mg/L	0.2110 mg/L	17:35:23
2	Zn 213.857†	133999.2	140690.4	1.705 mg/L	1.705 mg/L	17:35:23

Mean Data: 0606113-01

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2924355.9	0.945	mg/L	0.0045				0.47%
Ag 328.068†	102093.9	0.3894	mg/L	0.00254	0.3894	mg/L	0.00254	0.65%
Al 237.313†	564379.8	68.65	mg/L	0.011	68.65	mg/L	0.011	0.02%
As 188.979†	52.1	0.0638	mg/L	0.00109	0.0638	mg/L	0.00109	1.71%
B 182.528†	31.1	0.0601	mg/L	0.00201	0.0601	mg/L	0.00201	3.35%
Ba 233.527†	115100.7	1.027	mg/L	0.0105	1.027	mg/L	0.0105	1.02%
Be 313.107†	24397.0	0.0028	mg/L	0.00003	0.0028	mg/L	0.00003	0.92%
Ca 315.886†	5922805.6	39.06	mg/L	0.008	39.06	mg/L	0.008	0.02%
Cd 228.802†	216.1	0.0049	mg/L	0.00035	0.0049	mg/L	0.00035	7.14%
Co 228.616†	2734.4	0.0597	mg/L	0.00070	0.0597	mg/L	0.00070	1.18%
Cr 267.716†	22175.5	0.1545	mg/L	0.00169	0.1545	mg/L	0.00169	1.09%
Cu 324.752†	495140.5	2.076	mg/L	0.0007	2.076	mg/L	0.0007	0.03%
Fe 234.349†	6554359.7	127.4	mg/L	0.03	127.4	mg/L	0.03	0.02%
Fe 238.204†	13800914.1	119.6	mg/L	0.54	119.6	mg/L	0.54	0.45%
K 766.490†	15024.8	8.159	mg/L	0.1456	8.159	mg/L	0.1456	1.78%
Li 670.784†	4623.9	0.1281	mg/L	0.00207	0.1281	mg/L	0.00207	1.61%
Mg 279.077†	614262.9	25.24	mg/L	0.015	25.24	mg/L	0.015	0.06%
Mn 257.610†	2425446.2	2.741	mg/L	0.0007	2.741	mg/L	0.0007	0.03%
Mo 202.031†	211.2	0.0130	mg/L	0.00060	0.0130	mg/L	0.00060	4.65%
Na 589.592	52999.3	6.268	mg/L	0.0334	6.268	mg/L	0.0334	0.53%
Ni 231.604†	6187.4	0.1877	mg/L	0.00329	0.1877	mg/L	0.00329	1.76%
P 214.914†	10010.8	7.028	mg/L	0.0628	7.028	mg/L	0.0628	0.89%
Pb 220.353†	26961.0	3.131	mg/L	0.0302	3.131	mg/L	0.0302	0.96%
Sb 206.836†	25.2	0.0045	mg/L	0.00271	0.0045	mg/L	0.00271	60.47%
Se 196.026†	9.1	0.0002	mg/L	0.00015	0.0002	mg/L	0.00015	71.23%
Sn 189.927†	244.2	0.0698	mg/L	0.00355	0.0698	mg/L	0.00355	5.08%
Sr 407.771†	8361063.7	0.4003	mg/L	0.00226	0.4003	mg/L	0.00226	0.57%
Ti 337.279†	2224024.8	3.043	mg/L	0.0003	3.043	mg/L	0.0003	0.01%
Tl 190.801†	-31.2	0.0124	mg/L	0.00011	0.0124	mg/L	0.00011	0.91%
V 292.402†	50711.0	0.2095	mg/L	0.00210	0.2095	mg/L	0.00210	1.00%
Zn 213.857†	139609.0	1.692	mg/L	0.0187	1.692	mg/L	0.0187	1.10%

Sequence No.: 36
Sample ID: 0606113-03
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 38
Date Collected: 6/9/2006 5:37:23 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606113-03

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	7223.0	7090.5	3.852	mg/L	3.852	mg/L	17:38:59
1	Li 670.784†	1314.1	1260.5	0.0316	mg/L	0.0316	mg/L	17:38:59
1	Na 589.592	46176.9	43931.1	5.152	mg/L	5.152	mg/L	17:38:59
1	Y 371.029	2933857.9	2933857.9	0.948	mg/L			17:39:17
1	Ag 328.068†	19190.7	22251.5	0.0862	mg/L	0.0862	mg/L	17:39:22
1	Al 237.313†	219750.2	232029.2	28.14	mg/L	28.14	mg/L	17:39:22
1	As 188.979†	29.1	22.4	0.0244	mg/L	0.0244	mg/L	17:39:43
1	B 182.528†	5.6	11.8	0.0208	mg/L	0.0208	mg/L	17:39:43
1	Ba 233.527†	33076.5	35078.5	0.3117	mg/L	0.3117	mg/L	17:39:22
1	Be 313.107†	9109.8	9584.5	0.0003	mg/L	0.0003	mg/L	17:39:22
1	Ca 315.886†	4077620.5	4299362.2	28.35	mg/L	28.35	mg/L	17:39:17
1	Cd 228.802†	267.5	144.4	0.0028	mg/L	0.0028	mg/L	17:39:43
1	Co 228.616†	819.6	1053.2	0.0199	mg/L	0.0199	mg/L	17:39:43
1	Cr 267.716†	13506.6	12357.1	0.0854	mg/L	0.0854	mg/L	17:39:22
1	Cu 324.752†	236091.7	246381.3	1.034	mg/L	1.034	mg/L	17:39:17
1	Fe 234.349†	3496958.8	3687637.3	71.67	mg/L	71.67	mg/L	17:39:17
1	Fe 238.204†	7653349.3	8072756.2	69.93	mg/L	69.93	mg/L	17:39:17
1	Mg 279.077†	193298.9	203276.9	8.329	mg/L	8.329	mg/L	17:39:22
1	Mn 257.610†	1164648.2	1227289.9	1.385	mg/L	1.385	mg/L	17:39:17
1	Mo 202.031†	183.4	181.9	0.0110	mg/L	0.0110	mg/L	17:39:43
1	Ni 231.604†	3580.7	3748.1	0.1120	mg/L	0.1120	mg/L	17:39:43
1	P 214.914†	9781.5	10274.5	7.213	mg/L	7.213	mg/L	17:39:43
1	Pb 220.353†	9018.9	9675.6	1.121	mg/L	1.121	mg/L	17:39:43
1	Sb 206.836†	30.0	24.5	0.0066	mg/L	0.0066	mg/L	17:39:43
1	Se 196.026†	-5.6	5.3	-0.0042	mg/L	-0.0042	mg/L	17:39:43
1	Sn 189.927†	327.9	242.8	0.0661	mg/L	0.0661	mg/L	17:39:43
1	Sr 407.771†	3247418.2	3419846.9	0.1636	mg/L	0.1636	mg/L	17:39:17
1	Ti 337.279†	1371360.3	1448890.0	1.982	mg/L	1.982	mg/L	17:39:17
1	Tl 190.801†	-11.2	-6.8	0.0103	mg/L	0.0103	mg/L	17:39:43
1	V 292.402†	43736.3	48059.1	0.2061	mg/L	0.2061	mg/L	17:39:22
1	Zn 213.857†	76386.7	79928.1	0.9684	mg/L	0.9684	mg/L	17:39:22
2	K 766.490†	7278.0	7186.2	3.904	mg/L	3.904	mg/L	17:39:05
2	Li 670.784†	1386.1	1343.6	0.0340	mg/L	0.0340	mg/L	17:39:05
2	Na 589.592	46473.9	44228.1	5.188	mg/L	5.188	mg/L	17:39:05
2	Y 371.029	2919514.2	2919514.2	0.943	mg/L			17:39:52
2	Ag 328.068†	19313.7	22481.4	0.0871	mg/L	0.0871	mg/L	17:39:57
2	Al 237.313†	222092.2	235650.9	28.58	mg/L	28.58	mg/L	17:39:57
2	As 188.979†	19.6	12.5	0.0108	mg/L	0.0108	mg/L	17:40:18
2	B 182.528†	6.4	12.7	0.0226	mg/L	0.0226	mg/L	17:40:18
2	Ba 233.527†	33544.8	35746.3	0.3176	mg/L	0.3176	mg/L	17:39:57
2	Be 313.107†	9156.3	9681.0	0.0004	mg/L	0.0004	mg/L	17:39:57
2	Ca 315.886†	4054902.6	4296412.9	28.33	mg/L	28.33	mg/L	17:39:52
2	Cd 228.802†	265.6	143.8	0.0029	mg/L	0.0029	mg/L	17:40:18
2	Co 228.616†	817.1	1054.8	0.0199	mg/L	0.0199	mg/L	17:40:18
2	Cr 267.716†	13650.3	12579.5	0.0869	mg/L	0.0869	mg/L	17:39:57
2	Cu 324.752†	234353.4	245762.1	1.031	mg/L	1.031	mg/L	17:39:52
2	Fe 234.349†	3474687.1	3682151.5	71.56	mg/L	71.56	mg/L	17:39:52
2	Fe 238.204†	7617224.1	8074126.2	69.94	mg/L	69.94	mg/L	17:39:52
2	Mg 279.077†	195772.4	206900.8	8.479	mg/L	8.479	mg/L	17:39:57
2	Mn 257.610†	1158836.4	1227164.9	1.385	mg/L	1.385	mg/L	17:39:52
2	Mo 202.031†	184.7	184.3	0.0111	mg/L	0.0111	mg/L	17:40:18
2	Ni 231.604†	3582.1	3768.2	0.1127	mg/L	0.1127	mg/L	17:40:18
2	P 214.914†	9764.0	10306.7	7.236	mg/L	7.236	mg/L	17:40:18
2	Pb 220.353†	8986.9	9688.4	1.123	mg/L	1.123	mg/L	17:40:18
2	Sb 206.836†	28.9	23.5	0.0061	mg/L	0.0061	mg/L	17:40:18
2	Se 196.026†	-5.6	5.4	-0.0042	mg/L	-0.0042	mg/L	17:40:18
2	Sn 189.927†	327.0	243.5	0.0663	mg/L	0.0663	mg/L	17:40:18
2	Sr 407.771†	3232967.2	3421358.3	0.1636	mg/L	0.1636	mg/L	17:39:52
2	Ti 337.279†	1365605.3	1449896.7	1.984	mg/L	1.984	mg/L	17:39:52
2	Tl 190.801†	-11.5	-7.1	0.0100	mg/L	0.0100	mg/L	17:40:18

2	V 292.402†	44236.1	48815.6	0.2095 mg/L	0.2095 mg/L	17:39:57
2	Zn 213.857†	77066.3	81044.5	0.9820 mg/L	0.9820 mg/L	17:39:57

Mean Data: 0606113-03

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2926686.0	0.946	mg/L	0.0033				0.35%
Ag 328.068†	22366.4	0.0866	mg/L	0.00061	0.0866	mg/L	0.00061	0.70%
Al 237.313†	233840.0	28.36	mg/L	0.314	28.36	mg/L	0.314	1.11%
As 188.979†	17.5	0.0176	mg/L	0.00958	0.0176	mg/L	0.00958	54.47%
B 182.528†	12.3	0.0217	mg/L	0.00122	0.0217	mg/L	0.00122	5.64%
Ba 233.527†	35412.4	0.3147	mg/L	0.00422	0.3147	mg/L	0.00422	1.34%
Be 313.107†	9632.8	0.0003	mg/L	0.00001	0.0003	mg/L	0.00001	4.01%
Ca 315.886†	4297887.5	28.34	mg/L	0.014	28.34	mg/L	0.014	0.05%
Cd 228.802†	144.1	0.0028	mg/L	0.00004	0.0028	mg/L	0.00004	1.53%
Co 228.616†	1054.0	0.0199	mg/L	0.00003	0.0199	mg/L	0.00003	0.13%
Cr 267.716†	12468.3	0.0861	mg/L	0.00106	0.0861	mg/L	0.00106	1.23%
Cu 324.752†	246071.7	1.032	mg/L	0.0018	1.032	mg/L	0.0018	0.18%
Fe 234.349†	3684894.4	71.61	mg/L	0.075	71.61	mg/L	0.075	0.11%
Fe 238.204†	8073441.2	69.94	mg/L	0.008	69.94	mg/L	0.008	0.01%
K 766.490†	7138.3	3.878	mg/L	0.0367	3.878	mg/L	0.0367	0.95%
Li 670.784†	1302.1	0.0328	mg/L	0.00169	0.0328	mg/L	0.00169	5.14%
Mg 279.077†	205088.9	8.404	mg/L	0.1055	8.404	mg/L	0.1055	1.26%
Mn 257.610†	1227227.4	1.385	mg/L	0.0001	1.385	mg/L	0.0001	0.01%
Mo 202.031†	183.1	0.0110	mg/L	0.00012	0.0110	mg/L	0.00012	1.06%
Na 589.592	44079.6	5.170	mg/L	0.0259	5.170	mg/L	0.0259	0.50%
Ni 231.604†	3758.2	0.1123	mg/L	0.00044	0.1123	mg/L	0.00044	0.39%
P 214.914†	10290.6	7.225	mg/L	0.0160	7.225	mg/L	0.0160	0.22%
Pb 220.353†	9682.0	1.122	mg/L	0.0011	1.122	mg/L	0.0011	0.10%
Sb 206.836†	24.0	0.0064	mg/L	0.00034	0.0064	mg/L	0.00034	5.27%
Se 196.026†	5.3	-0.0042	mg/L	0.00003	-0.0042	mg/L	0.00003	0.60%
Sn 189.927†	243.2	0.0662	mg/L	0.00013	0.0662	mg/L	0.00013	0.20%
Sr 407.771†	3420602.6	0.1636	mg/L	0.00005	0.1636	mg/L	0.00005	0.03%
Ti 337.279†	1449393.3	1.983	mg/L	0.0010	1.983	mg/L	0.0010	0.05%
Tl 190.801†	-7.0	0.0102	mg/L	0.00020	0.0102	mg/L	0.00020	2.01%
V 292.402†	48437.3	0.2078	mg/L	0.00244	0.2078	mg/L	0.00244	1.17%
Zn 213.857†	80486.3	0.9752	mg/L	0.00965	0.9752	mg/L	0.00965	0.99%

Sequence No.: 37
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/9/2006 5:41:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	42818.4	45776.7	24.85	mg/L	24.85	mg/L	17:43:36
1	Li 670.784†	16519.5	17739.2	0.5044	mg/L	0.5044	mg/L	17:43:36
1	Na 589.592	201567.5	199321.7	24.28	mg/L	24.28	mg/L	17:43:36
1	Y 371.029	2861833.5	2861833.5	0.925	mg/L			17:43:50
1	Ag 328.068†	59547.9	66405.2	0.2502	mg/L	0.2502	mg/L	17:43:56
1	Al 237.313†	18503.4	20225.8	2.470	mg/L	2.470	mg/L	17:43:56
1	As 188.979†	324.1	342.3	0.4622	mg/L	0.4622	mg/L	17:44:16
1	B 182.528†	207.2	230.0	0.4653	mg/L	0.4653	mg/L	17:44:16
1	Ba 233.527†	50980.3	55318.6	0.4926	mg/L	0.4926	mg/L	17:43:56
1	Be 313.107†	202920.0	219421.6	0.0488	mg/L	0.0488	mg/L	17:43:56
1	Ca 315.886†	698262.9	753025.4	4.956	mg/L	4.956	mg/L	17:43:50
1	Cd 228.802†	9855.1	10520.0	0.2482	mg/L	0.2482	mg/L	17:44:16
1	Co 228.616†	18114.4	19778.3	0.4923	mg/L	0.4923	mg/L	17:43:56
1	Cr 267.716†	68584.4	72279.4	0.4882	mg/L	0.4882	mg/L	17:43:56
1	Cu 324.752†	114862.3	121546.2	0.5023	mg/L	0.5023	mg/L	17:43:56
1	Fe 234.349†	119106.7	127512.6	2.464	mg/L	2.464	mg/L	17:43:56
1	Fe 238.204†	266030.9	286957.4	2.474	mg/L	2.474	mg/L	17:43:56
1	Mg 279.077†	110532.5	118901.3	4.873	mg/L	4.873	mg/L	17:43:56
1	Mn 257.610†	414698.9	447180.2	0.5026	mg/L	0.5026	mg/L	17:43:50
1	Mo 202.031†	6741.7	7279.2	0.4971	mg/L	0.4971	mg/L	17:44:16
1	Ni 231.604†	14539.3	15694.3	0.4829	mg/L	0.4829	mg/L	17:43:56
1	P 214.914†	6488.9	6973.4	4.896	mg/L	4.896	mg/L	17:44:16

1	Pb 220.353†	3845.3	4320.0	0.4992 mg/L	0.4992 mg/L	17:44:16
1	Sb 206.836†	968.3	1040.0	0.4880 mg/L	0.4880 mg/L	17:44:16
1	Se 196.026†	761.0	834.3	0.9693 mg/L	0.9693 mg/L	17:44:16
1	Sn 189.927†	1842.5	1889.4	0.4900 mg/L	0.4900 mg/L	17:44:16
1	Sr 407.771†	981491.0	1055584.0	0.0503 mg/L	0.0503 mg/L	17:43:50
1	Ti 337.279†	329823.3	358932.0	0.4910 mg/L	0.4910 mg/L	17:43:56
1	Tl 190.801†	583.2	635.7	0.4953 mg/L	0.4953 mg/L	17:44:16
1	V 292.402†	97835.5	107725.6	0.4959 mg/L	0.4959 mg/L	17:43:56
1	Zn 213.857†	37943.6	40381.9	0.4892 mg/L	0.4892 mg/L	17:43:56
2	K 766.490†	42640.4	45439.6	24.67 mg/L	24.67 mg/L	17:43:41
2	Li 670.784†	16517.6	17681.1	0.5028 mg/L	0.5028 mg/L	17:43:41
2	Na 589.592	200557.0	198311.2	24.16 mg/L	24.16 mg/L	17:43:41
2	Y 371.029	2870839.9	2870839.9	0.928 mg/L		17:44:22
2	Ag 328.068†	59618.2	66278.9	0.2497 mg/L	0.2497 mg/L	17:44:28
2	Al 237.313†	18446.2	20101.3	2.455 mg/L	2.455 mg/L	17:44:28
2	As 188.979†	325.6	342.8	0.4629 mg/L	0.4629 mg/L	17:44:48
2	B 182.528†	208.0	230.2	0.4657 mg/L	0.4657 mg/L	17:44:48
2	Ba 233.527†	51138.9	55316.6	0.4926 mg/L	0.4926 mg/L	17:44:28
2	Be 313.107†	203112.7	218941.0	0.0487 mg/L	0.0487 mg/L	17:44:28
2	Ca 315.886†	700684.5	753267.0	4.957 mg/L	4.957 mg/L	17:44:22
2	Cd 228.802†	9873.2	10506.1	0.2478 mg/L	0.2478 mg/L	17:44:48
2	Co 228.616†	18067.9	19666.7	0.4895 mg/L	0.4895 mg/L	17:44:28
2	Cr 267.716†	68644.2	72111.2	0.4871 mg/L	0.4871 mg/L	17:44:28
2	Cu 324.752†	114541.5	120810.7	0.4993 mg/L	0.4993 mg/L	17:44:28
2	Fe 234.349†	119004.1	126997.9	2.454 mg/L	2.454 mg/L	17:44:28
2	Fe 238.204†	266506.8	286567.9	2.471 mg/L	2.471 mg/L	17:44:28
2	Mg 279.077†	110960.7	118988.0	4.877 mg/L	4.877 mg/L	17:44:28
2	Mn 257.610†	415329.1	446452.6	0.5018 mg/L	0.5018 mg/L	17:44:22
2	Mo 202.031†	6781.5	7299.2	0.4984 mg/L	0.4984 mg/L	17:44:48
2	Ni 231.604†	14403.8	15498.9	0.4769 mg/L	0.4769 mg/L	17:44:28
2	P 214.914†	6513.6	6978.0	4.899 mg/L	4.899 mg/L	17:44:48
2	Pb 220.353†	3834.7	4295.5	0.4964 mg/L	0.4964 mg/L	17:44:48
2	Sb 206.836†	981.9	1051.4	0.4935 mg/L	0.4935 mg/L	17:44:48
2	Se 196.026†	757.4	827.8	0.9617 mg/L	0.9617 mg/L	17:44:48
2	Sn 189.927†	1832.2	1872.1	0.4855 mg/L	0.4855 mg/L	17:44:48
2	Sr 407.771†	984206.4	1055181.4	0.0503 mg/L	0.0503 mg/L	17:44:22
2	Ti 337.279†	329974.9	357976.4	0.4896 mg/L	0.4896 mg/L	17:44:28
2	Tl 190.801†	581.1	631.5	0.4921 mg/L	0.4921 mg/L	17:44:48
2	V 292.402†	97640.1	107183.0	0.4935 mg/L	0.4935 mg/L	17:44:28
2	Zn 213.857†	37843.0	40144.8	0.4863 mg/L	0.4863 mg/L	17:44:28

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
Y 371.029	2866336.7	0.926 mg/L	0.0021			0.22%
Ag 328.068†	66342.0	0.2499 mg/L	0.00034	0.2499 mg/L	0.00034	0.13%
QC value within limits for Ag 328.068 Recovery = 99.97%						
Al 237.313†	20163.5	2.463 mg/L	0.0108	2.463 mg/L	0.0108	0.44%
QC value within limits for Al 237.313 Recovery = 98.50%						
As 188.979†	342.5	0.4625 mg/L	0.00049	0.4625 mg/L	0.00049	0.11%
QC value within limits for As 188.979 Recovery = 92.51%						
B 182.528†	230.1	0.4655 mg/L	0.00029	0.4655 mg/L	0.00029	0.06%
QC value within limits for B 182.528 Recovery = 93.10%						
Ba 233.527†	55317.6	0.4926 mg/L	0.00001	0.4926 mg/L	0.00001	0.00%
QC value within limits for Ba 233.527 Recovery = 98.53%						
Be 313.107†	219181.3	0.0487 mg/L	0.00008	0.0487 mg/L	0.00008	0.15%
QC value within limits for Be 313.107 Recovery = 97.49%						
Ca 315.886†	753146.2	4.957 mg/L	0.0011	4.957 mg/L	0.0011	0.02%
QC value within limits for Ca 315.886 Recovery = 99.13%						
Cd 228.802†	10513.0	0.2480 mg/L	0.00025	0.2480 mg/L	0.00025	0.10%
QC value within limits for Cd 228.802 Recovery = 99.21%						
Co 228.616†	19722.5	0.4909 mg/L	0.00198	0.4909 mg/L	0.00198	0.40%
QC value within limits for Co 228.616 Recovery = 98.19%						
Cr 267.716†	72195.3	0.4877 mg/L	0.00081	0.4877 mg/L	0.00081	0.17%
QC value within limits for Cr 267.716 Recovery = 97.53%						
Cu 324.752†	121178.5	0.5008 mg/L	0.00216	0.5008 mg/L	0.00216	0.43%
QC value within limits for Cu 324.752 Recovery = 100.16%						
Fe 234.349†	127255.3	2.459 mg/L	0.0070	2.459 mg/L	0.0070	0.29%
QC value within limits for Fe 234.349 Recovery = 98.36%						
Fe 238.204†	286762.6	2.473 mg/L	0.0024	2.473 mg/L	0.0024	0.10%
QC value within limits for Fe 238.204 Recovery = 98.91%						

K 766.490†	45608.2	24.76 mg/L	0.129	24.76 mg/L	0.129	0.52%
QC value within limits for K 766.490 Recovery = 99.05%						
Li 670.784†	17710.2	0.5036 mg/L	0.00118	0.5036 mg/L	0.00118	0.23%
QC value within limits for Li 670.784 Recovery = 100.72%						
Mg 279.077†	118944.7	4.875 mg/L	0.0025	4.875 mg/L	0.0025	0.05%
QC value within limits for Mg 279.077 Recovery = 97.50%						
Mn 257.610†	446816.4	0.5022 mg/L	0.00058	0.5022 mg/L	0.00058	0.12%
QC value within limits for Mn 257.610 Recovery = 100.45%						
Mo 202.031†	7289.2	0.4977 mg/L	0.00097	0.4977 mg/L	0.00097	0.20%
QC value within limits for Mo 202.031 Recovery = 99.55%						
Na 589.592	198816.4	24.22 mg/L	0.088	24.22 mg/L	0.088	0.36%
QC value within limits for Na 589.592 Recovery = 96.89%						
Ni 231.604†	15596.6	0.4799 mg/L	0.00428	0.4799 mg/L	0.00428	0.89%
QC value within limits for Ni 231.604 Recovery = 95.98%						
P 214.914†	6975.7	4.897 mg/L	0.0023	4.897 mg/L	0.0023	0.05%
QC value within limits for P 214.914 Recovery = 97.94%						
Pb 220.353†	4307.8	0.4978 mg/L	0.00201	0.4978 mg/L	0.00201	0.40%
QC value within limits for Pb 220.353 Recovery = 99.57%						
Sb 206.836†	1045.7	0.4907 mg/L	0.00388	0.4907 mg/L	0.00388	0.79%
QC value within limits for Sb 206.836 Recovery = 98.14%						
Se 196.026†	831.0	0.9655 mg/L	0.00536	0.9655 mg/L	0.00536	0.56%
QC value within limits for Se 196.026 Recovery = 96.55%						
Sn 189.927†	1880.8	0.4878 mg/L	0.00318	0.4878 mg/L	0.00318	0.65%
QC value within limits for Sn 189.927 Recovery = 97.56%						
Sr 407.771†	1055382.7	0.0503 mg/L	0.00001	0.0503 mg/L	0.00001	0.03%
QC value within limits for Sr 407.771 Recovery = 100.54%						
Ti 337.279†	358454.2	0.4903 mg/L	0.00092	0.4903 mg/L	0.00092	0.19%
QC value within limits for Ti 337.279 Recovery = 98.06%						
Tl 190.801†	633.6	0.4937 mg/L	0.00232	0.4937 mg/L	0.00232	0.47%
QC value within limits for Tl 190.801 Recovery = 98.74%						
V 292.402†	107454.3	0.4947 mg/L	0.00172	0.4947 mg/L	0.00172	0.35%
QC value within limits for V 292.402 Recovery = 98.94%						
Zn 213.857†	40263.4	0.4877 mg/L	0.00202	0.4877 mg/L	0.00202	0.41%
QC value within limits for Zn 213.857 Recovery = 97.55%						

All analyte(s) passed QC.

Sequence No.: 38
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/9/2006 5:46:27 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	698.5	218.6	0.1210	mg/L	0.1210	mg/L	17:48:00
1	Li 670.784†	173.5	60.0	-0.0028	mg/L	-0.0028	mg/L	17:48:00
1	Na 589.592	4552.8	2307.0	0.0265	mg/L	0.0265	mg/L	17:48:00
1	Y 371.029	2891480.6	2891480.6	0.934	mg/L			17:48:14
1	Ag 328.068†	-1945.1	-74.7	-0.0009	mg/L	-0.0009	mg/L	17:48:19
1	Al 237.313†	-151.9	52.8	0.0050	mg/L	0.0050	mg/L	17:48:39
1	As 188.979†	8.2	0.5	-0.0035	mg/L	-0.0035	mg/L	17:48:39
1	B 182.528†	0.4	6.3	0.0097	mg/L	0.0097	mg/L	17:48:39
1	Ba 233.527†	-172.3	1.7	-0.0017	mg/L	-0.0017	mg/L	17:48:39
1	Be 313.107†	85.3	65.9	0.0000	mg/L	0.0000	mg/L	17:48:19
1	Ca 315.886†	2323.1	378.3	-0.0115	mg/L	-0.0115	mg/L	17:48:19
1	Cd 228.802†	110.9	-19.1	-0.0015	mg/L	-0.0015	mg/L	17:48:39
1	Co 228.616†	-171.7	4.8	-0.0021	mg/L	-0.0021	mg/L	17:48:39
1	Cr 267.716†	1801.7	37.5	-0.0016	mg/L	-0.0016	mg/L	17:48:19
1	Cu 324.752†	2414.1	-87.2	-0.0026	mg/L	-0.0026	mg/L	17:48:19
1	Fe 234.349†	1333.2	132.2	-0.0065	mg/L	-0.0065	mg/L	17:48:39
1	Fe 238.204†	1021.0	352.1	-0.0094	mg/L	-0.0094	mg/L	17:48:39
1	Mg 279.077†	653.2	65.6	-0.0242	mg/L	-0.0242	mg/L	17:48:19
1	Mn 257.610†	1335.3	134.9	-0.0033	mg/L	-0.0033	mg/L	17:48:19
1	Mo 202.031†	29.4	20.0	-0.0001	mg/L	-0.0001	mg/L	17:48:39
1	Ni 231.604†	23.9	-3.6	-0.0043	mg/L	-0.0043	mg/L	17:48:39
1	P 214.914†	56.3	16.3	0.0109	mg/L	0.0109	mg/L	17:48:39
1	Pb 220.353†	-131.7	20.6	-0.0006	mg/L	-0.0006	mg/L	17:48:39
1	Sb 206.836†	8.6	2.1	-0.0011	mg/L	-0.0011	mg/L	17:48:39
1	Se 196.026†	-6.4	4.4	-0.0053	mg/L	-0.0053	mg/L	17:48:39

1	Sn 189.927†	63.4	-35.3	-0.0111 mg/L	-0.0111 mg/L	17:48:39
1	Sr 407.771†	5657.2	209.7	-0.0003 mg/L	-0.0003 mg/L	17:48:14
1	Ti 337.279†	-2077.0	22.7	-0.0002 mg/L	-0.0002 mg/L	17:48:19
1	Tl 190.801†	5.1	10.5	0.0045 mg/L	0.0045 mg/L	17:48:39
1	V 292.402†	-1787.8	8.2	-0.0005 mg/L	-0.0005 mg/L	17:48:19
1	Zn 213.857†	648.0	41.6	-0.0010 mg/L	-0.0010 mg/L	17:48:39
2	K 766.490†	769.6	295.2	0.1626 mg/L	0.1626 mg/L	17:48:06
2	Li 670.784†	167.4	53.6	-0.0030 mg/L	-0.0030 mg/L	17:48:06
2	Na 589.592	4592.6	2346.8	0.0314 mg/L	0.0314 mg/L	17:48:06
2	Y 371.029	2889667.4	2889667.4	0.934 mg/L		17:48:45
2	Ag 328.068†	-1968.2	-100.8	-0.0010 mg/L	-0.0010 mg/L	17:48:50
2	Al 237.313†	-156.4	47.8	0.0044 mg/L	0.0044 mg/L	17:49:11
2	As 188.979†	5.4	-2.5	-0.0076 mg/L	-0.0076 mg/L	17:49:11
2	B 182.528†	-0.7	5.1	0.0071 mg/L	0.0071 mg/L	17:49:11
2	Ba 233.527†	-161.0	13.7	-0.0016 mg/L	-0.0016 mg/L	17:49:11
2	Be 313.107†	180.6	168.0	0.0000 mg/L	0.0000 mg/L	17:48:50
2	Ca 315.886†	2147.2	191.4	-0.0127 mg/L	-0.0127 mg/L	17:48:50
2	Cd 228.802†	119.4	-9.8	-0.0013 mg/L	-0.0013 mg/L	17:49:11
2	Co 228.616†	-193.9	-19.1	-0.0027 mg/L	-0.0027 mg/L	17:49:11
2	Cr 267.716†	1849.3	89.7	-0.0012 mg/L	-0.0012 mg/L	17:48:50
2	Cu 324.752†	2351.5	-152.6	-0.0028 mg/L	-0.0028 mg/L	17:48:50
2	Fe 234.349†	1335.9	136.0	-0.0065 mg/L	-0.0065 mg/L	17:49:11
2	Fe 238.204†	991.1	320.8	-0.0096 mg/L	-0.0096 mg/L	17:49:11
2	Mg 279.077†	742.8	162.0	-0.0202 mg/L	-0.0202 mg/L	17:48:50
2	Mn 257.610†	1336.7	137.3	-0.0033 mg/L	-0.0033 mg/L	17:48:50
2	Mo 202.031†	25.1	15.3	-0.0004 mg/L	-0.0004 mg/L	17:49:11
2	Ni 231.604†	33.5	6.7	-0.0040 mg/L	-0.0040 mg/L	17:49:11
2	P 214.914†	62.9	23.5	0.0159 mg/L	0.0159 mg/L	17:49:11
2	Pb 220.353†	-149.7	1.2	-0.0029 mg/L	-0.0029 mg/L	17:49:11
2	Sb 206.836†	6.9	0.3	-0.0020 mg/L	-0.0020 mg/L	17:49:11
2	Se 196.026†	-9.2	1.3	-0.0089 mg/L	-0.0089 mg/L	17:49:11
2	Sn 189.927†	61.4	-37.4	-0.0117 mg/L	-0.0117 mg/L	17:49:11
2	Sr 407.771†	5568.8	118.8	-0.0003 mg/L	-0.0003 mg/L	17:48:45
2	Ti 337.279†	-2068.1	30.8	-0.0001 mg/L	-0.0001 mg/L	17:48:50
2	Tl 190.801†	-1.2	3.8	-0.0007 mg/L	-0.0007 mg/L	17:49:11
2	V 292.402†	-1763.7	32.9	-0.0004 mg/L	-0.0004 mg/L	17:48:50
2	Zn 213.857†	632.8	25.7	-0.0012 mg/L	-0.0012 mg/L	17:49:11

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2890574.0	0.934	mg/L	0.0004				0.04%
Ag 328.068†	-87.7	-0.0009	mg/L	0.00007	-0.0009	mg/L	0.00007	7.53%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	50.3	0.0047	mg/L	0.00043	0.0047	mg/L	0.00043	9.27%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	-1.0	-0.0055	mg/L	0.00293	-0.0055	mg/L	0.00293	53.05%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	5.7	0.0084	mg/L	0.00178	0.0084	mg/L	0.00178	21.20%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	7.7	-0.0016	mg/L	0.00008	-0.0016	mg/L	0.00008	4.69%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	116.9	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	63.32%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	284.8	-0.0121	mg/L	0.00087	-0.0121	mg/L	0.00087	7.22%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	-14.4	-0.0014	mg/L	0.00017	-0.0014	mg/L	0.00017	12.01%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-7.1	-0.0024	mg/L	0.00042	-0.0024	mg/L	0.00042	17.31%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated								
Cr 267.716†	63.6	-0.0014	mg/L	0.00025	-0.0014	mg/L	0.00025	18.07%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-119.9	-0.0027	mg/L	0.00019	-0.0027	mg/L	0.00019	7.10%
QC value less than the lower limit for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	134.1	-0.0065	mg/L	0.00005	-0.0065	mg/L	0.00005	0.76%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Fe 238.204†	336.4	-0.0095	mg/L	0.00019	-0.0095	mg/L	0.00019	2.02%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	256.9	0.1418	mg/L	0.02944	0.1418	mg/L	0.02944	20.76%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated								
Li 670.784†	56.8	-0.0029	mg/L	0.00013	-0.0029	mg/L	0.00013	4.41%

	QC value within limits for Li 670.784 Recovery = Not calculated						
Mg 279.077†	113.8	-0.0222 mg/L	0.00281	-0.0222 mg/L	0.00281	12.67%	
	QC value less than the lower limit for Mg 279.077 Recovery = Not calculated						
Mn 257.610†	136.1	-0.0033 mg/L	0.00000	-0.0033 mg/L	0.00000	0.06%	
	QC value within limits for Mn 257.610 Recovery = Not calculated						
Mo 202.031†	17.7	-0.0003 mg/L	0.00022	-0.0003 mg/L	0.00022	79.23%	
	QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	2326.9	0.0290 mg/L	0.00347	0.0290 mg/L	0.00347	11.96%	
	QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	1.6	-0.0041 mg/L	0.00022	-0.0041 mg/L	0.00022	5.42%	
	QC value less than the lower limit for Ni 231.604 Recovery = Not calculated						
P 214.914†	19.9	0.0134 mg/L	0.00355	0.0134 mg/L	0.00355	26.56%	
	QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	10.9	-0.0017 mg/L	0.00159	-0.0017 mg/L	0.00159	91.14%	
	QC value within limits for Pb 220.353 Recovery = Not calculated						
Sb 206.836†	1.2	-0.0015 mg/L	0.00063	-0.0015 mg/L	0.00063	41.32%	
	QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	2.9	-0.0071 mg/L	0.00254	-0.0071 mg/L	0.00254	35.99%	
	QC value within limits for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-36.4	-0.0114 mg/L	0.00038	-0.0114 mg/L	0.00038	3.34%	
	QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	164.3	-0.0003 mg/L	0.00000	-0.0003 mg/L	0.00000	1.05%	
	QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	26.8	-0.0002 mg/L	0.00001	-0.0002 mg/L	0.00001	5.22%	
	QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	7.1	0.0019 mg/L	0.00374	0.0019 mg/L	0.00374	196.43%	
	QC value within limits for Tl 190.801 Recovery = Not calculated						
V 292.402†	20.5	-0.0005 mg/L	0.00008	-0.0005 mg/L	0.00008	16.35%	
	QC value within limits for V 292.402 Recovery = Not calculated						
Zn 213.857†	33.7	-0.0011 mg/L	0.00014	-0.0011 mg/L	0.00014	12.42%	
	QC value within limits for Zn 213.857 Recovery = Not calculated						
QC Failed. Continue with analysis.							

Sequence No.: 39
Sample ID: 0606113-04
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 39
Date Collected: 6/9/2006 5:50:48 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606113-04

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	5211.0	5127.2	2.786	mg/L	2.786	mg/L	17:52:24
1	Li 670.784†	2336.4	2410.3	0.0646	mg/L	0.0646	mg/L	17:52:24
1	Na 589.592	51118.2	48872.4	5.760	mg/L	5.760	mg/L	17:52:24
1	Y 371.029	2851317.9	2851317.9	0.921	mg/L			17:52:47
1	Ag 328.068†	24133.8	28202.9	0.1096	mg/L	0.1096	mg/L	17:52:52
1	Al 237.313†	701406.3	761545.9	92.97	mg/L	92.97	mg/L	17:52:47
1	As 188.979†	320.8	339.9	0.4563	mg/L	0.4563	mg/L	17:53:12
1	B 182.528†	7.6	14.2	0.0256	mg/L	0.0256	mg/L	17:53:12
1	Ba 233.527†	44619.8	48618.0	0.4327	mg/L	0.4327	mg/L	17:52:52
1	Be 313.107†	22187.6	24057.8	0.0018	mg/L	0.0018	mg/L	17:52:52
1	Ca 315.886†	935857.4	1013703.5	6.674	mg/L	6.674	mg/L	17:52:47
1	Cd 228.802†	848.5	783.2	0.0157	mg/L	0.0157	mg/L	17:53:12
1	Co 228.616†	954.1	1224.1	0.0204	mg/L	0.0204	mg/L	17:53:12
1	Cr 267.716†	40775.6	42368.4	0.2906	mg/L	0.2906	mg/L	17:52:52
1	Cu 324.752†	109306.7	115974.1	0.4990	mg/L	0.4990	mg/L	17:52:52
1	Fe 234.349†	4573121.4	4962528.5	96.45	mg/L	96.45	mg/L	17:52:40
1	Fe 238.204†	9853769.8	10694880.0	92.65	mg/L	92.65	mg/L	17:52:40
1	Mg 279.077†	217388.0	235326.9	9.638	mg/L	9.638	mg/L	17:52:52
1	Mn 257.610†	1037884.6	1125261.3	1.270	mg/L	1.270	mg/L	17:52:47
1	Mo 202.031†	160.4	162.5	0.0096	mg/L	0.0096	mg/L	17:53:12
1	Ni 231.604†	2872.5	3088.8	0.0916	mg/L	0.0916	mg/L	17:53:12
1	P 214.914†	15740.9	17041.8	11.96	mg/L	11.96	mg/L	17:52:52
1	Pb 220.353†	12021.7	13210.3	1.543	mg/L	1.543	mg/L	17:53:12
1	Sb 206.836†	70.5	69.4	0.0223	mg/L	0.0223	mg/L	17:53:12
1	Se 196.026†	-2.3	8.7	-0.0002	mg/L	-0.0002	mg/L	17:53:12
1	Sn 189.927†	161.8	72.5	0.0246	mg/L	0.0246	mg/L	17:53:12
1	Sr 407.771†	945422.5	1020348.5	0.0486	mg/L	0.0486	mg/L	17:52:47
1	Ti 337.279†	2512072.1	2728935.3	3.734	mg/L	3.734	mg/L	17:52:47

1	Tl 190.801†	-13.9	-10.0	0.0026 mg/L	0.0026 mg/L	17:53:12
1	V 292.402†	49400.9	55543.2	0.2344 mg/L	0.2344 mg/L	17:52:52
1	Zn 213.857†	35306.1	37670.4	0.4510 mg/L	0.4510 mg/L	17:52:52
2	K 766.490†	5089.0	4881.3	2.652 mg/L	2.652 mg/L	17:52:29
2	Li 670.784†	2363.4	2387.0	0.0639 mg/L	0.0639 mg/L	17:52:29
2	Na 589.592	50337.9	48092.1	5.664 mg/L	5.664 mg/L	17:52:29
2	Y 371.029	2911103.2	2911103.2	0.941 mg/L		17:53:27
2	Ag 328.068†	24003.2	27526.1	0.1070 mg/L	0.1070 mg/L	17:53:32
2	Al 237.313†	710694.6	755785.3	92.28 mg/L	92.28 mg/L	17:53:27
2	As 188.979†	315.2	326.9	0.4385 mg/L	0.4385 mg/L	17:53:52
2	B 182.528†	11.4	18.0	0.0334 mg/L	0.0334 mg/L	17:53:52
2	Ba 233.527†	44356.0	47342.9	0.4213 mg/L	0.4213 mg/L	17:53:32
2	Be 313.107†	22211.5	23588.6	0.0018 mg/L	0.0018 mg/L	17:53:32
2	Ca 315.886†	950863.0	1008794.9	6.642 mg/L	6.642 mg/L	17:53:27
2	Cd 228.802†	869.5	786.7	0.0158 mg/L	0.0158 mg/L	17:53:52
2	Co 228.616†	962.8	1212.1	0.0202 mg/L	0.0202 mg/L	17:53:52
2	Cr 267.716†	40495.7	41161.8	0.2823 mg/L	0.2823 mg/L	17:53:32
2	Cu 324.752†	108245.9	112409.6	0.4839 mg/L	0.4839 mg/L	17:53:32
2	Fe 234.349†	4586243.4	4874537.0	94.73 mg/L	94.73 mg/L	17:53:20
2	Fe 238.204†	9927559.1	10553672.8	91.42 mg/L	91.42 mg/L	17:53:20
2	Mg 279.077†	216550.2	229590.2	9.403 mg/L	9.403 mg/L	17:53:32
2	Mn 257.610†	1052720.8	1117898.2	1.262 mg/L	1.262 mg/L	17:53:27
2	Mo 202.031†	188.6	188.9	0.0114 mg/L	0.0114 mg/L	17:53:52
2	Ni 231.604†	2894.8	3048.4	0.0903 mg/L	0.0903 mg/L	17:53:52
2	P 214.914†	15651.2	16595.6	11.65 mg/L	11.65 mg/L	17:53:32
2	Pb 220.353†	12159.6	13089.0	1.529 mg/L	1.529 mg/L	17:53:52
2	Sb 206.836†	64.8	61.8	0.0188 mg/L	0.0188 mg/L	17:53:52
2	Se 196.026†	1.3	12.6	0.0044 mg/L	0.0044 mg/L	17:53:52
2	Sn 189.927†	163.9	71.2	0.0242 mg/L	0.0242 mg/L	17:53:52
2	Sr 407.771†	955173.6	1009640.4	0.0481 mg/L	0.0481 mg/L	17:53:27
2	Ti 337.279†	2545259.8	2708220.6	3.706 mg/L	3.706 mg/L	17:53:27
2	Tl 190.801†	-17.3	-13.3	0.0000 mg/L	0.0000 mg/L	17:53:52
2	V 292.402†	49131.9	54156.1	0.2284 mg/L	0.2284 mg/L	17:53:32
2	Zn 213.857†	35027.4	36587.1	0.4379 mg/L	0.4379 mg/L	17:53:32

Mean Data: 0606113-04

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Calib Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
Y 371.029	2881210.6	0.931	mg/L	0.0137				1.47%
Ag 328.068†	27864.5	0.1083	mg/L	0.00185	0.1083	mg/L	0.00185	1.71%
Al 237.313†	758665.6	92.63	mg/L	0.494	92.63	mg/L	0.494	0.53%
As 188.979†	333.4	0.4474	mg/L	0.01258	0.4474	mg/L	0.01258	2.81%
B 182.528†	16.1	0.0295	mg/L	0.00552	0.0295	mg/L	0.00552	18.70%
Ba 233.527†	47980.5	0.4270	mg/L	0.00805	0.4270	mg/L	0.00805	1.89%
Be 313.107†	23823.2	0.0018	mg/L	0.00006	0.0018	mg/L	0.00006	3.37%
Ca 315.886†	1011249.2	6.658	mg/L	0.0229	6.658	mg/L	0.0229	0.34%
Cd 228.802†	785.0	0.0157	mg/L	0.00012	0.0157	mg/L	0.00012	0.76%
Co 228.616†	1218.1	0.0203	mg/L	0.00017	0.0203	mg/L	0.00017	0.84%
Cr 267.716†	41765.1	0.2864	mg/L	0.00586	0.2864	mg/L	0.00586	2.04%
Cu 324.752†	114191.9	0.4915	mg/L	0.01068	0.4915	mg/L	0.01068	2.17%
Fe 234.349†	4918532.7	95.59	mg/L	1.209	95.59	mg/L	1.209	1.27%
Fe 238.204†	10624276.4	92.04	mg/L	0.865	92.04	mg/L	0.865	0.94%
K 766.490†	5004.2	2.719	mg/L	0.0944	2.719	mg/L	0.0944	3.47%
Li 670.784†	2398.6	0.0643	mg/L	0.00047	0.0643	mg/L	0.00047	0.74%
Mg 279.077†	232458.5	9.521	mg/L	0.1666	9.521	mg/L	0.1666	1.75%
Mn 257.610†	1121579.8	1.266	mg/L	0.0059	1.266	mg/L	0.0059	0.47%
Mo 202.031†	175.7	0.0105	mg/L	0.00128	0.0105	mg/L	0.00128	12.13%
Na 589.592	48482.2	5.712	mg/L	0.0679	5.712	mg/L	0.0679	1.19%
Ni 231.604†	3068.6	0.0910	mg/L	0.00089	0.0910	mg/L	0.00089	0.97%
P 214.914†	16818.7	11.81	mg/L	0.222	11.81	mg/L	0.222	1.88%
Pb 220.353†	13149.6	1.536	mg/L	0.0100	1.536	mg/L	0.0100	0.65%
Sb 206.836†	65.6	0.0206	mg/L	0.00249	0.0206	mg/L	0.00249	12.09%
Se 196.026†	10.7	0.0021	mg/L	0.00322	0.0021	mg/L	0.00322	155.07%
Sn 189.927†	71.8	0.0244	mg/L	0.00032	0.0244	mg/L	0.00032	1.31%
Sr 407.771†	1014994.5	0.0483	mg/L	0.00036	0.0483	mg/L	0.00036	0.75%
Ti 337.279†	2718577.9	3.720	mg/L	0.0200	3.720	mg/L	0.0200	0.54%
Tl 190.801†	-11.7	0.0013	mg/L	0.00186	0.0013	mg/L	0.00186	143.76%
V 292.402†	54849.6	0.2314	mg/L	0.00425	0.2314	mg/L	0.00425	1.84%
Zn 213.857†	37128.8	0.4445	mg/L	0.00926	0.4445	mg/L	0.00926	2.08%

Sequence No.: 40
Sample ID: 0606113-05
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 40
Date Collected: 6/9/2006 5:55:33 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606113-05

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	10363.6	10561.5	5.736	mg/L	5.736	mg/L	17:57:07
1	Li 670.784†	1510.9	1491.2	0.0382	mg/L	0.0382	mg/L	17:57:07
1	Na 589.592	45912.0	43666.2	5.119	mg/L	5.119	mg/L	17:57:07
1	Y 371.029	2892066.9	2892066.9	0.934	mg/L			17:57:24
1	Ag 328.068†	7524.1	10059.2	0.0401	mg/L	0.0401	mg/L	17:57:29
1	Al 237.313†	231697.9	248164.7	30.13	mg/L	30.13	mg/L	17:57:29
1	As 188.979†	22.2	15.5	0.0148	mg/L	0.0148	mg/L	17:57:50
1	B 182.528†	6.0	12.3	0.0218	mg/L	0.0218	mg/L	17:57:50
1	Ba 233.527†	23296.1	25116.2	0.2227	mg/L	0.2227	mg/L	17:57:29
1	Be 313.107†	16872.4	18030.5	0.0021	mg/L	0.0021	mg/L	17:57:29
1	Ca 315.886†	2496669.3	2669679.2	17.60	mg/L	17.60	mg/L	17:57:24
1	Cd 228.802†	209.6	86.5	0.0015	mg/L	0.0015	mg/L	17:57:50
1	Co 228.616†	908.1	1160.4	0.0224	mg/L	0.0224	mg/L	17:57:50
1	Cr 267.716†	11479.2	10393.4	0.0716	mg/L	0.0716	mg/L	17:57:29
1	Cu 324.752†	50301.4	51158.4	0.2238	mg/L	0.2238	mg/L	17:57:29
1	Fe 234.349†	3267678.4	3495580.9	67.93	mg/L	67.93	mg/L	17:57:24
1	Fe 238.204†	7157320.4	7658599.4	66.34	mg/L	66.34	mg/L	17:57:24
1	Mg 279.077†	221983.1	236919.6	9.720	mg/L	9.720	mg/L	17:57:29
1	Mn 257.610†	1468043.7	1569719.0	1.773	mg/L	1.773	mg/L	17:57:24
1	Mo 202.031†	175.7	176.5	0.0106	mg/L	0.0106	mg/L	17:57:50
1	Ni 231.604†	2282.5	2413.5	0.0707	mg/L	0.0707	mg/L	17:57:50
1	P 214.914†	8306.2	8844.8	6.210	mg/L	6.210	mg/L	17:57:50
1	Pb 220.353†	4765.5	5261.3	0.6099	mg/L	0.6099	mg/L	17:57:50
1	Sb 206.836†	19.5	13.7	0.0015	mg/L	0.0015	mg/L	17:57:50
1	Se 196.026†	-5.2	5.7	-0.0037	mg/L	-0.0037	mg/L	17:57:50
1	Sn 189.927†	177.4	86.7	0.0255	mg/L	0.0255	mg/L	17:57:50
1	Sr 407.771†	1841991.9	1965345.0	0.0939	mg/L	0.0939	mg/L	17:57:24
1	Ti 337.279†	1418746.1	1520503.8	2.080	mg/L	2.080	mg/L	17:57:24
1	Tl 190.801†	-33.2	-30.6	-0.0017	mg/L	-0.0017	mg/L	17:57:50
1	V 292.402†	37095.5	41619.2	0.1772	mg/L	0.1772	mg/L	17:57:29
1	Zn 213.857†	55067.7	58278.2	0.7046	mg/L	0.7046	mg/L	17:57:29
2	K 766.490†	10408.4	10445.2	5.673	mg/L	5.673	mg/L	17:57:12
2	Li 670.784†	1452.7	1406.0	0.0358	mg/L	0.0358	mg/L	17:57:12
2	Na 589.592	45767.1	43521.3	5.101	mg/L	5.101	mg/L	17:57:12
2	Y 371.029	2935312.3	2935312.3	0.948	mg/L			17:57:59
2	Ag 328.068†	7452.8	9865.3	0.0393	mg/L	0.0393	mg/L	17:58:04
2	Al 237.313†	229671.5	242375.1	29.42	mg/L	29.42	mg/L	17:58:04
2	As 188.979†	21.6	14.5	0.0134	mg/L	0.0134	mg/L	17:58:24
2	B 182.528†	7.6	14.0	0.0252	mg/L	0.0252	mg/L	17:58:24
2	Ba 233.527†	23076.6	24517.5	0.2173	mg/L	0.2173	mg/L	17:58:04
2	Be 313.107†	16647.9	17527.7	0.0020	mg/L	0.0020	mg/L	17:58:04
2	Ca 315.886†	2534129.7	2669813.6	17.60	mg/L	17.60	mg/L	17:57:59
2	Cd 228.802†	217.2	91.3	0.0016	mg/L	0.0016	mg/L	17:58:24
2	Co 228.616†	885.8	1122.5	0.0214	mg/L	0.0214	mg/L	17:58:24
2	Cr 267.716†	11282.3	10004.9	0.0689	mg/L	0.0689	mg/L	17:58:04
2	Cu 324.752†	50131.9	50186.6	0.2197	mg/L	0.2197	mg/L	17:58:04
2	Fe 234.349†	3299084.5	3477176.0	67.57	mg/L	67.57	mg/L	17:57:59
2	Fe 238.204†	7251985.2	7645568.0	66.23	mg/L	66.23	mg/L	17:57:59
2	Mg 279.077†	220652.0	232016.3	9.518	mg/L	9.518	mg/L	17:58:04
2	Mn 257.610†	1489145.6	1568822.9	1.772	mg/L	1.772	mg/L	17:57:59
2	Mo 202.031†	164.4	161.8	0.0096	mg/L	0.0096	mg/L	17:58:24
2	Ni 231.604†	2310.8	2407.4	0.0705	mg/L	0.0705	mg/L	17:58:24
2	P 214.914†	8408.1	8821.4	6.193	mg/L	6.193	mg/L	17:58:24
2	Pb 220.353†	4807.2	5230.2	0.6062	mg/L	0.6062	mg/L	17:58:24
2	Sb 206.836†	17.6	11.4	0.0004	mg/L	0.0004	mg/L	17:58:24
2	Se 196.026†	-4.2	6.9	-0.0024	mg/L	-0.0024	mg/L	17:58:24
2	Sn 189.927†	190.5	97.7	0.0283	mg/L	0.0283	mg/L	17:58:24
2	Sr 407.771†	1864681.7	1960227.4	0.0936	mg/L	0.0936	mg/L	17:57:59
2	Ti 337.279†	1440149.5	1520702.9	2.081	mg/L	2.081	mg/L	17:57:59
2	Tl 190.801†	-22.5	-18.7	0.0076	mg/L	0.0076	mg/L	17:58:24
2	V 292.402†	36894.3	40822.3	0.1736	mg/L	0.1736	mg/L	17:58:04
2	Zn 213.857†	54327.3	56629.3	0.6845	mg/L	0.6845	mg/L	17:58:04

Mean Data: 0606113-05

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2913689.6	0.941	mg/L	0.0099				1.05%
Ag 328.068†	9962.2	0.0397	mg/L	0.00053	0.0397	mg/L	0.00053	1.33%
Al 237.313†	245269.9	29.78	mg/L	0.501	29.78	mg/L	0.501	1.68%
As 188.979†	15.0	0.0141	mg/L	0.00096	0.0141	mg/L	0.00096	6.78%
B 182.528†	13.1	0.0235	mg/L	0.00240	0.0235	mg/L	0.00240	10.22%
Ba 233.527†	24816.9	0.2200	mg/L	0.00378	0.2200	mg/L	0.00378	1.72%
Be 313.107†	17779.1	0.0020	mg/L	0.00008	0.0020	mg/L	0.00008	4.01%
Ca 315.886†	2669746.4	17.60	mg/L	0.001	17.60	mg/L	0.001	0.00%
Cd 228.802†	88.9	0.0015	mg/L	0.00008	0.0015	mg/L	0.00008	5.30%
Co 228.616†	1141.5	0.0219	mg/L	0.00067	0.0219	mg/L	0.00067	3.07%
Cr 267.716†	10199.2	0.0702	mg/L	0.00188	0.0702	mg/L	0.00188	2.67%
Cu 324.752†	50672.5	0.2218	mg/L	0.00289	0.2218	mg/L	0.00289	1.30%
Fe 234.349†	3486378.4	67.75	mg/L	0.253	67.75	mg/L	0.253	0.37%
Fe 238.204†	7652083.7	66.29	mg/L	0.080	66.29	mg/L	0.080	0.12%
K 766.490†	10503.4	5.705	mg/L	0.0446	5.705	mg/L	0.0446	0.78%
Li 670.784†	1448.6	0.0370	mg/L	0.00173	0.0370	mg/L	0.00173	4.67%
Mg 279.077†	234468.0	9.619	mg/L	0.1427	9.619	mg/L	0.1427	1.48%
Mn 257.610†	1569271.0	1.772	mg/L	0.0007	1.772	mg/L	0.0007	0.04%
Mo 202.031†	169.1	0.0101	mg/L	0.00071	0.0101	mg/L	0.00071	7.05%
Na 589.592	43593.7	5.110	mg/L	0.0126	5.110	mg/L	0.0126	0.25%
Ni 231.604†	2410.4	0.0706	mg/L	0.00014	0.0706	mg/L	0.00014	0.19%
P 214.914†	8833.1	6.201	mg/L	0.0117	6.201	mg/L	0.0117	0.19%
Pb 220.353†	5245.8	0.6080	mg/L	0.00264	0.6080	mg/L	0.00264	0.43%
Sb 206.836†	12.6	0.0010	mg/L	0.00074	0.0010	mg/L	0.00074	77.62%
Se 196.026†	6.3	-0.0031	mg/L	0.00095	-0.0031	mg/L	0.00095	30.89%
Sn 189.927†	92.2	0.0269	mg/L	0.00201	0.0269	mg/L	0.00201	7.47%
Sr 407.771†	1962786.2	0.0938	mg/L	0.00017	0.0938	mg/L	0.00017	0.18%
Ti 337.279†	1520603.3	2.081	mg/L	0.0002	2.081	mg/L	0.0002	0.01%
Tl 190.801†	-24.6	0.0030	mg/L	0.00653	0.0030	mg/L	0.00653	220.50%
V 292.402†	41220.8	0.1754	mg/L	0.00254	0.1754	mg/L	0.00254	1.45%
Zn 213.857†	57453.8	0.6946	mg/L	0.01422	0.6946	mg/L	0.01422	2.05%

Sequence No.: 41
Sample ID: 0606113-06
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 41
Date Collected: 6/9/2006 6:00:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606113-06

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	7932.4	7896.6	4.289	mg/L	4.289	mg/L	18:01:33
1	Li 670.784†	1898.6	1891.0	0.0497	mg/L	0.0497	mg/L	18:01:33
1	Na 589.592	44092.3	41846.5	4.895	mg/L	4.895	mg/L	18:01:33
1	Y 371.029	2913740.1	2913740.1	0.941	mg/L			18:01:50
1	Ag 328.068†	785.6	2841.7	0.0131	mg/L	0.0131	mg/L	18:01:56
1	Al 237.313†	546317.9	580503.7	70.87	mg/L	70.87	mg/L	18:01:50
1	As 188.979†	39.5	33.7	0.0387	mg/L	0.0387	mg/L	18:02:16
1	B 182.528†	1.6	7.6	0.0121	mg/L	0.0121	mg/L	18:02:16
1	Ba 233.527†	22095.3	23655.3	0.2097	mg/L	0.2097	mg/L	18:01:56
1	Be 313.107†	16092.9	17068.2	0.0007	mg/L	0.0007	mg/L	18:01:56
1	Ca 315.886†	870896.3	922940.9	6.075	mg/L	6.075	mg/L	18:01:50
1	Cd 228.802†	162.7	35.1	0.0002	mg/L	0.0002	mg/L	18:02:16
1	Co 228.616†	1102.2	1359.2	0.0251	mg/L	0.0251	mg/L	18:02:16
1	Cr 267.716†	18459.8	17716.7	0.1220	mg/L	0.1220	mg/L	18:01:56
1	Cu 324.752†	30983.6	30239.0	0.1393	mg/L	0.1393	mg/L	18:01:56
1	Fe 234.349†	3619017.7	3842756.0	74.68	mg/L	74.68	mg/L	18:01:50
1	Fe 238.204†	7912368.4	8403624.5	72.80	mg/L	72.80	mg/L	18:01:50
1	Mg 279.077†	228355.4	241921.1	9.919	mg/L	9.919	mg/L	18:01:56
1	Mn 257.610†	1116175.2	1184285.4	1.337	mg/L	1.337	mg/L	18:01:50
1	Mo 202.031†	100.5	95.2	0.0050	mg/L	0.0050	mg/L	18:02:16
1	Ni 231.604†	1782.7	1864.4	0.0536	mg/L	0.0536	mg/L	18:01:56
1	P 214.914†	9257.0	9788.7	6.872	mg/L	6.872	mg/L	18:01:56
1	Pb 220.353†	1849.2	2125.7	0.2541	mg/L	0.2541	mg/L	18:02:16
1	Sb 206.836†	28.4	23.0	0.0035	mg/L	0.0035	mg/L	18:02:16

1	Se 196.026†	-4.2	6.8	-0.0025 mg/L	-0.0025 mg/L	18:02:16
1	Sn 189.927†	85.0	-12.9	0.0010 mg/L	0.0010 mg/L	18:02:16
1	Sr 407.771†	686039.2	722852.0	0.0343 mg/L	0.0343 mg/L	18:01:50
1	Ti 337.279†	2173114.9	2310486.6	3.161 mg/L	3.161 mg/L	18:01:50
1	Tl 190.801†	-17.2	-13.2	0.0028 mg/L	0.0028 mg/L	18:02:16
1	V 292.402†	21898.9	25182.4	0.1001 mg/L	0.1001 mg/L	18:01:56
1	Zn 213.857†	21767.8	22469.4	0.2671 mg/L	0.2671 mg/L	18:01:56
2	K 766.490†	7846.5	7804.1	4.239 mg/L	4.239 mg/L	18:01:38
2	Li 670.784†	1877.2	1867.9	0.0490 mg/L	0.0490 mg/L	18:01:38
2	Na 589.592	44490.9	42245.1	4.944 mg/L	4.944 mg/L	18:01:38
2	Y 371.029	2914174.6	2914174.6	0.942 mg/L		18:02:25
2	Ag 328.068†	879.4	2941.2	0.0135 mg/L	0.0135 mg/L	18:02:31
2	Al 237.313†	546531.4	580643.9	70.88 mg/L	70.88 mg/L	18:02:25
2	As 188.979†	40.6	34.9	0.0404 mg/L	0.0404 mg/L	18:02:51
2	B 182.528†	4.2	10.4	0.0179 mg/L	0.0179 mg/L	18:02:51
2	Ba 233.527†	22028.1	23580.4	0.2090 mg/L	0.2090 mg/L	18:02:31
2	Be 313.107†	16076.0	17047.6	0.0007 mg/L	0.0007 mg/L	18:02:31
2	Ca 315.886†	871279.2	923209.7	6.076 mg/L	6.076 mg/L	18:02:25
2	Cd 228.802†	166.9	39.5	0.0003 mg/L	0.0003 mg/L	18:02:51
2	Co 228.616†	1094.1	1350.5	0.0248 mg/L	0.0248 mg/L	18:02:51
2	Cr 267.716†	18417.6	17669.0	0.1217 mg/L	0.1217 mg/L	18:02:31
2	Cu 324.752†	30847.5	30089.6	0.1387 mg/L	0.1387 mg/L	18:02:31
2	Fe 234.349†	3624655.9	3848170.7	74.79 mg/L	74.79 mg/L	18:02:25
2	Fe 238.204†	7919561.5	8410010.6	72.85 mg/L	72.85 mg/L	18:02:25
2	Mg 279.077†	228041.2	241551.3	9.904 mg/L	9.904 mg/L	18:02:31
2	Mn 257.610†	1116930.3	1184910.6	1.337 mg/L	1.337 mg/L	18:02:25
2	Mo 202.031†	122.0	118.0	0.0066 mg/L	0.0066 mg/L	18:02:51
2	Ni 231.604†	1795.4	1877.6	0.0540 mg/L	0.0540 mg/L	18:02:31
2	P 214.914†	9217.4	9745.2	6.842 mg/L	6.842 mg/L	18:02:31
2	Pb 220.353†	1849.9	2126.2	0.2541 mg/L	0.2541 mg/L	18:02:51
2	Sb 206.836†	26.7	21.2	0.0026 mg/L	0.0026 mg/L	18:02:51
2	Se 196.026†	-13.4	-3.0	-0.0140 mg/L	-0.0140 mg/L	18:02:51
2	Sn 189.927†	86.2	-11.6	0.0013 mg/L	0.0013 mg/L	18:02:51
2	Sr 407.771†	686243.4	722960.3	0.0343 mg/L	0.0343 mg/L	18:02:25
2	Ti 337.279†	2172525.6	2309516.6	3.160 mg/L	3.160 mg/L	18:02:25
2	Tl 190.801†	-21.9	-18.2	-0.0011 mg/L	-0.0011 mg/L	18:02:51
2	V 292.402†	21849.1	25126.0	0.0999 mg/L	0.0999 mg/L	18:02:31
2	Zn 213.857†	21593.5	22280.8	0.2648 mg/L	0.2648 mg/L	18:02:31

Mean Data: 0606113-06

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2913957.3	0.942	mg/L	0.0001				0.01%
Ag 328.068†	2891.5	0.0133	mg/L	0.00027	0.0133	mg/L	0.00027	2.02%
Al 237.313†	580573.8	70.87	mg/L	0.012	70.87	mg/L	0.012	0.02%
As 188.979†	34.3	0.0396	mg/L	0.00116	0.0396	mg/L	0.00116	2.94%
B 182.528†	9.0	0.0150	mg/L	0.00407	0.0150	mg/L	0.00407	27.15%
Ba 233.527†	23617.9	0.2093	mg/L	0.00047	0.2093	mg/L	0.00047	0.23%
Be 313.107†	17057.9	0.0007	mg/L	0.00000	0.0007	mg/L	0.00000	0.25%
Ca 315.886†	923075.3	6.076	mg/L	0.0013	6.076	mg/L	0.0013	0.02%
Cd 228.802†	37.3	0.0002	mg/L	0.00007	0.0002	mg/L	0.00007	29.30%
Co 228.616†	1354.9	0.0249	mg/L	0.00015	0.0249	mg/L	0.00015	0.61%
Cr 267.716†	17692.8	0.1218	mg/L	0.00023	0.1218	mg/L	0.00023	0.18%
Cu 324.752†	30164.3	0.1390	mg/L	0.00043	0.1390	mg/L	0.00043	0.31%
Fe 234.349†	3845463.4	74.73	mg/L	0.074	74.73	mg/L	0.074	0.10%
Fe 238.204†	8406817.6	72.82	mg/L	0.039	72.82	mg/L	0.039	0.05%
K 766.490†	7850.4	4.264	mg/L	0.0355	4.264	mg/L	0.0355	0.83%
Li 670.784†	1879.4	0.0494	mg/L	0.00047	0.0494	mg/L	0.00047	0.95%
Mg 279.077†	241736.2	9.911	mg/L	0.0108	9.911	mg/L	0.0108	0.11%
Mn 257.610†	1184598.0	1.337	mg/L	0.0005	1.337	mg/L	0.0005	0.04%
Mo 202.031†	106.6	0.0058	mg/L	0.00111	0.0058	mg/L	0.00111	19.04%
Na 589.592	42045.8	4.919	mg/L	0.0347	4.919	mg/L	0.0347	0.71%
Ni 231.604†	1871.0	0.0538	mg/L	0.00029	0.0538	mg/L	0.00029	0.54%
P 214.914†	9766.9	6.857	mg/L	0.0216	6.857	mg/L	0.0216	0.32%
Pb 220.353†	2125.9	0.2541	mg/L	0.00004	0.2541	mg/L	0.00004	0.02%
Sb 206.836†	22.1	0.0031	mg/L	0.00062	0.0031	mg/L	0.00062	20.24%
Se 196.026†	1.9	-0.0082	mg/L	0.00812	-0.0082	mg/L	0.00812	98.58%
Sn 189.927†	-12.2	0.0011	mg/L	0.00024	0.0011	mg/L	0.00024	21.58%
Sr 407.771†	722906.2	0.0343	mg/L	0.00000	0.0343	mg/L	0.00000	0.01%
Ti 337.279†	2310001.6	3.161	mg/L	0.0009	3.161	mg/L	0.0009	0.03%
Tl 190.801†	-15.7	0.0009	mg/L	0.00276	0.0009	mg/L	0.00276	316.20%

V 292.402†	25154.2	0.1000 mg/L	0.00017	0.1000 mg/L	0.00017	0.17%
Zn 213.857†	22375.1	0.2660 mg/L	0.00164	0.2660 mg/L	0.00164	0.62%

Sequence No.: 42
Sample ID: 0606113-07
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 42
Date Collected: 6/9/2006 6:04:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606113-07

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	56783.1	58755.9	31.90	mg/L	31.90	mg/L	18:06:03
1	Li 670.784†	4873.2	4962.2	0.1378	mg/L	0.1378	mg/L	18:06:03
1	Na 589.592	44833.4	42587.6	4.986	mg/L	4.986	mg/L	18:06:03
1	Y 371.029	2964313.6	2964313.6	0.958	mg/L			18:06:32
1	Ag 328.068†	-2673.3	-783.7	0.0036	mg/L	0.0036	mg/L	18:06:37
1	Al 237.313†	791114.7	826185.8	100.5	mg/L	100.5	mg/L	18:06:32
1	As 188.979†	39.6	33.1	0.0318	mg/L	0.0318	mg/L	18:06:57
1	B 182.528†	18.6	25.3	0.0482	mg/L	0.0482	mg/L	18:06:57
1	Ba 233.527†	96492.8	100930.4	0.9002	mg/L	0.9002	mg/L	18:06:37
1	Be 313.107†	26914.3	28074.7	-0.0032	mg/L	-0.0032	mg/L	18:06:37
1	Ca 315.886†	2015995.3	2102709.9	13.86	mg/L	13.86	mg/L	18:06:32
1	Cd 228.802†	124.6	-7.7	0.0003	mg/L	0.0003	mg/L	18:06:57
1	Co 228.616†	4045.3	4412.1	0.0880	mg/L	0.0880	mg/L	18:06:57
1	Cr 267.716†	25985.5	25239.5	0.1770	mg/L	0.1770	mg/L	18:06:37
1	Cu 324.752†	93280.8	94719.5	0.4302	mg/L	0.4302	mg/L	18:06:37
1	Fe 234.349†	8677033.0	9058040.3	176.0	mg/L	176.0	mg/L	18:06:23
1	Fe 238.204†	17857982.5	18644048.3	161.5	mg/L	161.5	mg/L	18:06:23
1	Mg 279.077†	1099977.9	1147808.3	47.21	mg/L	47.21	mg/L	18:06:32
1	Mn 257.610†	3808873.2	3975394.4	4.495	mg/L	4.495	mg/L	18:06:32
1	Mo 202.031†	64.4	55.7	0.0023	mg/L	0.0023	mg/L	18:06:37
1	Ni 231.604†	5815.4	6042.5	0.1832	mg/L	0.1832	mg/L	18:06:37
1	P 214.914†	11816.1	12292.7	8.630	mg/L	8.630	mg/L	18:06:57
1	Pb 220.353†	927.0	1129.4	0.1393	mg/L	0.1393	mg/L	18:06:57
1	Sb 206.836†	59.5	55.0	0.0112	mg/L	0.0112	mg/L	18:06:57
1	Se 196.026†	4.1	15.5	0.0078	mg/L	0.0078	mg/L	18:06:57
1	Sn 189.927†	-53.2	-158.7	-0.0263	mg/L	-0.0263	mg/L	18:06:57
1	Sr 407.771†	932047.4	967267.0	0.0460	mg/L	0.0460	mg/L	18:06:32
1	Ti 337.279†	6673977.0	6970272.3	9.538	mg/L	9.538	mg/L	18:06:32
1	Tl 190.801†	-64.1	-61.9	0.0069	mg/L	0.0069	mg/L	18:06:57
1	V 292.402†	49199.2	53288.7	0.2064	mg/L	0.2064	mg/L	18:06:37
1	Zn 213.857†	39504.0	40592.5	0.4810	mg/L	0.4810	mg/L	18:06:37
2	K 766.490†	56151.3	57910.2	31.44	mg/L	31.44	mg/L	18:06:09
2	Li 670.784†	4826.6	4897.6	0.1360	mg/L	0.1360	mg/L	18:06:09
2	Na 589.592	43914.5	41668.7	4.873	mg/L	4.873	mg/L	18:06:09
2	Y 371.029	2973748.2	2973748.2	0.961	mg/L			18:07:17
2	Ag 328.068†	-2761.6	-866.8	0.0032	mg/L	0.0032	mg/L	18:07:23
2	Al 237.313†	795052.3	827663.4	100.7	mg/L	100.7	mg/L	18:07:17
2	As 188.979†	38.2	31.5	0.0296	mg/L	0.0296	mg/L	18:07:43
2	B 182.528†	18.0	24.7	0.0470	mg/L	0.0470	mg/L	18:07:43
2	Ba 233.527†	95514.6	99592.6	0.8883	mg/L	0.8883	mg/L	18:07:23
2	Be 313.107†	26613.9	27673.0	-0.0034	mg/L	-0.0034	mg/L	18:07:23
2	Ca 315.886†	2023617.4	2103964.8	13.87	mg/L	13.87	mg/L	18:07:17
2	Cd 228.802†	117.5	-15.4	0.0001	mg/L	0.0001	mg/L	18:07:43
2	Co 228.616†	4038.6	4391.7	0.0875	mg/L	0.0875	mg/L	18:07:43
2	Cr 267.716†	25679.3	24834.7	0.1742	mg/L	0.1742	mg/L	18:07:23
2	Cu 324.752†	92897.6	94011.7	0.4269	mg/L	0.4269	mg/L	18:07:23
2	Fe 234.349†	8610624.5	8960184.1	174.1	mg/L	174.1	mg/L	18:07:09
2	Fe 238.204†	17722053.8	18443428.1	159.8	mg/L	159.8	mg/L	18:07:09
2	Mg 279.077†	1103123.3	1147438.4	47.20	mg/L	47.20	mg/L	18:07:17
2	Mn 257.610†	3825608.0	3980194.6	4.501	mg/L	4.501	mg/L	18:07:17
2	Mo 202.031†	106.6	99.4	0.0053	mg/L	0.0053	mg/L	18:07:23
2	Ni 231.604†	5666.0	5867.8	0.1778	mg/L	0.1778	mg/L	18:07:23
2	P 214.914†	11815.4	12252.9	8.602	mg/L	8.602	mg/L	18:07:43
2	Pb 220.353†	919.4	1118.4	0.1382	mg/L	0.1382	mg/L	18:07:43
2	Sb 206.836†	64.0	59.4	0.0134	mg/L	0.0134	mg/L	18:07:43
2	Se 196.026†	-1.7	9.4	0.0006	mg/L	0.0006	mg/L	18:07:43
2	Sn 189.927†	-73.6	-179.7	-0.0318	mg/L	-0.0318	mg/L	18:07:43
2	Sr 407.771†	935937.9	968228.7	0.0461	mg/L	0.0461	mg/L	18:07:17

2	Ti 337.279†	6697222.2	6972357.6	9.540 mg/L	9.540 mg/L	18:07:17
2	Tl 190.801†	-46.2	-43.1	0.0217 mg/L	0.0217 mg/L	18:07:43
2	V 292.402†	48974.8	52892.2	0.2049 mg/L	0.2049 mg/L	18:07:23
2	Zn 213.857†	39261.7	40209.6	0.4766 mg/L	0.4766 mg/L	18:07:23

Mean Data: 0606113-07

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2969030.9	0.959	mg/L	0.0022				0.22%
Ag 328.068†	-825.3	0.0034	mg/L	0.00027	0.0034	mg/L	0.00027	8.18%
Al 237.313†	826924.6	100.6	mg/L	0.13	100.6	mg/L	0.13	0.13%
As 188.979†	32.3	0.0307	mg/L	0.00155	0.0307	mg/L	0.00155	5.05%
B 182.528†	25.0	0.0476	mg/L	0.00090	0.0476	mg/L	0.00090	1.89%
Ba 233.527†	100261.5	0.8942	mg/L	0.00845	0.8942	mg/L	0.00845	0.95%
Be 313.107†	27873.8	-0.0033	mg/L	0.00007	-0.0033	mg/L	0.00007	2.26%
Ca 315.886†	2103337.3	13.86	mg/L	0.006	13.86	mg/L	0.006	0.04%
Cd 228.802†	-11.5	0.0002	mg/L	0.00013	0.0002	mg/L	0.00013	67.77%
Co 228.616†	4401.9	0.0877	mg/L	0.00036	0.0877	mg/L	0.00036	0.41%
Cr 267.716†	25037.1	0.1756	mg/L	0.00203	0.1756	mg/L	0.00203	1.15%
Cu 324.752†	94365.6	0.4286	mg/L	0.00232	0.4286	mg/L	0.00232	0.54%
Fe 234.349†	9009112.2	175.1	mg/L	1.34	175.1	mg/L	1.34	0.77%
Fe 238.204†	18543738.2	160.7	mg/L	1.23	160.7	mg/L	1.23	0.77%
K 766.490†	58333.1	31.67	mg/L	0.325	31.67	mg/L	0.325	1.02%
Li 670.784†	4929.9	0.1369	mg/L	0.00131	0.1369	mg/L	0.00131	0.96%
Mg 279.077†	1147623.4	47.21	mg/L	0.010	47.21	mg/L	0.010	0.02%
Mn 257.610†	3977794.5	4.498	mg/L	0.0038	4.498	mg/L	0.0038	0.09%
Mo 202.031†	77.5	0.0038	mg/L	0.00211	0.0038	mg/L	0.00211	55.33%
Na 589.592	42128.1	4.930	mg/L	0.0800	4.930	mg/L	0.0800	1.62%
Ni 231.604†	5955.1	0.1805	mg/L	0.00383	0.1805	mg/L	0.00383	2.12%
P 214.914†	12272.8	8.616	mg/L	0.0198	8.616	mg/L	0.0198	0.23%
Pb 220.353†	1123.9	0.1387	mg/L	0.00080	0.1387	mg/L	0.00080	0.58%
Sb 206.836†	57.2	0.0123	mg/L	0.00155	0.0123	mg/L	0.00155	12.56%
Se 196.026†	12.5	0.0042	mg/L	0.00503	0.0042	mg/L	0.00503	119.80%
Sn 189.927†	-169.2	-0.0290	mg/L	0.00393	-0.0290	mg/L	0.00393	13.53%
Sr 407.771†	967747.9	0.0461	mg/L	0.00003	0.0461	mg/L	0.00003	0.07%
Ti 337.279†	6971315.0	9.539	mg/L	0.0020	9.539	mg/L	0.0020	0.02%
Tl 190.801†	-52.5	0.0143	mg/L	0.01044	0.0143	mg/L	0.01044	73.08%
V 292.402†	53090.5	0.2056	mg/L	0.00106	0.2056	mg/L	0.00106	0.52%
Zn 213.857†	40401.0	0.4788	mg/L	0.00316	0.4788	mg/L	0.00316	0.66%

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Sequence No.: 43
Sample ID: 0606113-08
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 43
Date Collected: 6/9/2006 6:09:20 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606113-08

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	33504.0	34705.5	18.84	mg/L	18.84	mg/L	18:10:53
1	Li 670.784†	3397.1	3446.9	0.0943	mg/L	0.0943	mg/L	18:10:53
1	Na 589.592	44111.3	41865.5	4.897	mg/L	4.897	mg/L	18:10:53
1	Y 371.029	2942905.1	2942905.1	0.951	mg/L			18:11:18
1	Ag 328.068†	-2611.7	-739.3	0.0015	mg/L	0.0015	mg/L	18:11:23
1	Al 237.313†	553914.7	582742.1	70.93	mg/L	70.93	mg/L	18:11:18
1	As 188.979†	37.5	31.2	0.0330	mg/L	0.0330	mg/L	18:11:44
1	B 182.528†	15.2	21.9	0.0413	mg/L	0.0413	mg/L	18:11:44
1	Ba 233.527†	63825.7	67308.7	0.5997	mg/L	0.5997	mg/L	18:11:23
1	Be 313.107†	19524.6	20507.7	-0.0009	mg/L	-0.0009	mg/L	18:11:23
1	Ca 315.886†	1931943.2	2029627.9	13.38	mg/L	13.38	mg/L	18:11:18
1	Cd 228.802†	243.6	118.4	0.0028	mg/L	0.0028	mg/L	18:11:44
1	Co 228.616†	3453.4	3820.3	0.0815	mg/L	0.0815	mg/L	18:11:44
1	Cr 267.716†	24196.8	23555.8	0.1620	mg/L	0.1620	mg/L	18:11:23
1	Cu 324.752†	83683.9	85335.4	0.3780	mg/L	0.3780	mg/L	18:11:23
1	Fe 234.349†	5906451.3	6210249.6	120.7	mg/L	120.7	mg/L	18:11:12
1	Fe 238.204†	12561121.8	13209216.1	114.4	mg/L	114.4	mg/L	18:11:12
1	Mg 279.077†	836941.1	879539.1	36.19	mg/L	36.19	mg/L	18:11:18
1	Mn 257.610†	4139083.0	4351589.8	4.921	mg/L	4.921	mg/L	18:11:12
1	Mo 202.031†	143.3	139.1	0.0080	mg/L	0.0080	mg/L	18:11:44

1	Ni 231.604†	4865.8	5088.0	0.1536 mg/L	0.1536 mg/L	18:11:44
1	P 214.914†	10836.9	11352.7	7.970 mg/L	7.970 mg/L	18:11:44
1	Pb 220.353†	1070.5	1287.4	0.1544 mg/L	0.1544 mg/L	18:11:44
1	Sb 206.836†	32.7	27.2	0.0023 mg/L	0.0023 mg/L	18:11:44
1	Se 196.026†	-3.1	8.0	-0.0011 mg/L	-0.0011 mg/L	18:11:44
1	Sn 189.927†	-19.5	-123.7	-0.0234 mg/L	-0.0234 mg/L	18:11:44
1	Sr 407.771†	1088484.6	1138863.9	0.0543 mg/L	0.0543 mg/L	18:11:18
1	Ti 337.279†	3908904.4	4113061.6	5.628 mg/L	5.628 mg/L	18:11:12
1	Tl 190.801†	-71.0	-69.7	0.0151 mg/L	0.0151 mg/L	18:11:44
1	V 292.402†	42479.0	46595.0	0.1883 mg/L	0.1883 mg/L	18:11:23
1	Zn 213.857†	36706.1	37950.2	0.4524 mg/L	0.4524 mg/L	18:11:23
2	K 766.490†	33546.2	35212.4	19.12 mg/L	19.12 mg/L	18:10:59
2	Li 670.784†	3358.9	3453.1	0.0945 mg/L	0.0945 mg/L	18:10:59
2	Na 589.592	43827.7	41581.9	4.862 mg/L	4.862 mg/L	18:10:59
2	Y 371.029	2904826.0	2904826.0	0.939 mg/L		18:12:00
2	Ag 328.068†	-2607.3	-770.7	0.0015 mg/L	0.0015 mg/L	18:12:05
2	Al 237.313†	546125.6	582079.6	70.83 mg/L	70.83 mg/L	18:12:00
2	As 188.979†	37.0	31.1	0.0327 mg/L	0.0327 mg/L	18:12:26
2	B 182.528†	11.7	18.3	0.0341 mg/L	0.0341 mg/L	18:12:26
2	Ba 233.527†	63830.3	68193.6	0.6077 mg/L	0.6077 mg/L	18:12:05
2	Be 313.107†	19385.0	20628.2	-0.0010 mg/L	-0.0010 mg/L	18:12:05
2	Ca 315.886†	1899688.5	2021896.3	13.32 mg/L	13.32 mg/L	18:12:00
2	Cd 228.802†	249.4	128.0	0.0031 mg/L	0.0031 mg/L	18:12:26
2	Co 228.616†	3459.6	3874.5	0.0825 mg/L	0.0825 mg/L	18:12:26
2	Cr 267.716†	24235.5	23930.6	0.1647 mg/L	0.1647 mg/L	18:12:05
2	Cu 324.752†	83867.3	86684.5	0.3843 mg/L	0.3843 mg/L	18:12:05
2	Fe 234.349†	5984677.9	6375021.9	123.9 mg/L	123.9 mg/L	18:11:54
2	Fe 238.204†	12715509.5	13546874.9	117.4 mg/L	117.4 mg/L	18:11:54
2	Mg 279.077†	822256.0	875431.1	36.02 mg/L	36.02 mg/L	18:12:00
2	Mn 257.610†	4187868.5	4460629.3	5.044 mg/L	5.044 mg/L	18:11:54
2	Mo 202.031†	144.0	141.9	0.0082 mg/L	0.0082 mg/L	18:12:26
2	Ni 231.604†	4902.3	5193.9	0.1569 mg/L	0.1569 mg/L	18:12:26
2	P 214.914†	10870.6	11538.0	8.100 mg/L	8.100 mg/L	18:12:26
2	Pb 220.353†	1083.5	1316.0	0.1576 mg/L	0.1576 mg/L	18:12:26
2	Sb 206.836†	35.1	30.3	0.0036 mg/L	0.0036 mg/L	18:12:26
2	Se 196.026†	-2.6	8.5	-0.0005 mg/L	-0.0005 mg/L	18:12:26
2	Sn 189.927†	-17.9	-122.2	-0.0228 mg/L	-0.0228 mg/L	18:12:26
2	Sr 407.771†	1074444.1	1138910.5	0.0543 mg/L	0.0543 mg/L	18:12:00
2	Ti 337.279†	3952333.3	4213220.8	5.765 mg/L	5.765 mg/L	18:11:54
2	Tl 190.801†	-83.9	-84.3	0.0055 mg/L	0.0055 mg/L	18:12:26
2	V 292.402†	42626.8	47338.1	0.1910 mg/L	0.1910 mg/L	18:12:05
2	Zn 213.857†	36819.2	38576.7	0.4598 mg/L	0.4598 mg/L	18:12:05

Mean Data: 0606113-08

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2923865.6	0.945	mg/L	0.0087				0.92%
Ag 328.068†	-755.0	0.0015	mg/L	0.00001	0.0015	mg/L	0.00001	0.50%
Al 237.313†	582410.8	70.88	mg/L	0.068	70.88	mg/L	0.068	0.10%
As 188.979†	31.2	0.0328	mg/L	0.00021	0.0328	mg/L	0.00021	0.63%
B 182.528†	20.1	0.0377	mg/L	0.00513	0.0377	mg/L	0.00513	13.62%
Ba 233.527†	67751.1	0.6037	mg/L	0.00559	0.6037	mg/L	0.00559	0.93%
Be 313.107†	20568.0	-0.0010	mg/L	0.00007	-0.0010	mg/L	0.00007	7.50%
Ca 315.886†	2025762.1	13.35	mg/L	0.036	13.35	mg/L	0.036	0.27%
Cd 228.802†	123.2	0.0030	mg/L	0.00018	0.0030	mg/L	0.00018	6.17%
Co 228.616†	3847.4	0.0820	mg/L	0.00075	0.0820	mg/L	0.00075	0.92%
Cr 267.716†	23743.2	0.1633	mg/L	0.00188	0.1633	mg/L	0.00188	1.15%
Cu 324.752†	86009.9	0.3811	mg/L	0.00444	0.3811	mg/L	0.00444	1.17%
Fe 234.349†	6292635.7	122.3	mg/L	2.26	122.3	mg/L	2.26	1.85%
Fe 238.204†	13378045.5	115.9	mg/L	2.07	115.9	mg/L	2.07	1.78%
K 766.490†	34959.0	18.98	mg/L	0.195	18.98	mg/L	0.195	1.03%
Li 670.784†	3450.0	0.0944	mg/L	0.00013	0.0944	mg/L	0.00013	0.13%
Mg 279.077†	877485.1	36.11	mg/L	0.120	36.11	mg/L	0.120	0.33%
Mn 257.610†	4406109.5	4.982	mg/L	0.0872	4.982	mg/L	0.0872	1.75%
Mo 202.031†	140.5	0.0081	mg/L	0.00013	0.0081	mg/L	0.00013	1.66%
Na 589.592	41723.7	4.880	mg/L	0.0247	4.880	mg/L	0.0247	0.51%
Ni 231.604†	5141.0	0.1553	mg/L	0.00232	0.1553	mg/L	0.00232	1.50%
P 214.914†	11445.4	8.035	mg/L	0.0920	8.035	mg/L	0.0920	1.14%
Pb 220.353†	1301.7	0.1560	mg/L	0.00222	0.1560	mg/L	0.00222	1.42%
Sb 206.836†	28.7	0.0030	mg/L	0.00091	0.0030	mg/L	0.00091	30.81%
Se 196.026†	8.2	-0.0008	mg/L	0.00040	-0.0008	mg/L	0.00040	51.87%

Sn 189.927†	-122.9	-0.0231 mg/L	0.00046	-0.0231 mg/L	0.00046	1.98%
Sr 407.771†	1138887.2	0.0543 mg/L	0.00000	0.0543 mg/L	0.00000	0.00%
Ti 337.279†	4163141.2	5.696 mg/L	0.0969	5.696 mg/L	0.0969	1.70%
Tl 190.801†	-77.0	0.0103 mg/L	0.00677	0.0103 mg/L	0.00677	65.65%
V 292.402†	46966.5	0.1896 mg/L	0.00197	0.1896 mg/L	0.00197	1.04%
Zn 213.857†	38263.4	0.4561 mg/L	0.00523	0.4561 mg/L	0.00523	1.15%

Sequence No.: 44
Sample ID: 0606113-09
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 44
Date Collected: 6/9/2006 6:14:03 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606113-09

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	11405.7	11246.8	6.108	mg/L	6.108	mg/L	18:15:40
1	Li 670.784†	5515.7	5569.0	0.1552	mg/L	0.1552	mg/L	18:15:40
1	Na 589.592	46705.6	44459.8	5.217	mg/L	5.217	mg/L	18:15:40
1	Y 371.029	2997651.9	2997651.9	0.969	mg/L			18:16:04
1	Ag 328.068†	46783.9	50309.3	0.1948	mg/L	0.1948	mg/L	18:16:10
1	Al 237.313†	662591.9	684306.8	83.29	mg/L	83.29	mg/L	18:16:04
1	As 188.979†	45.6	38.8	0.0459	mg/L	0.0459	mg/L	18:16:30
1	B 182.528†	13.5	19.9	0.0372	mg/L	0.0372	mg/L	18:16:30
1	Ba 233.527†	72867.1	75417.6	0.6722	mg/L	0.6722	mg/L	18:16:10
1	Be 313.107†	21757.7	22438.3	0.0027	mg/L	0.0027	mg/L	18:16:10
1	Ca 315.886†	10110010.9	10435948.4	68.83	mg/L	68.83	mg/L	18:15:58
1	Cd 228.802†	282.7	154.1	0.0037	mg/L	0.0037	mg/L	18:16:30
1	Co 228.616†	2708.0	2984.4	0.0664	mg/L	0.0664	mg/L	18:16:30
1	Cr 267.716†	27365.7	26362.8	0.1838	mg/L	0.1838	mg/L	18:16:10
1	Cu 324.752†	140656.7	142549.5	0.6170	mg/L	0.6170	mg/L	18:16:10
1	Fe 234.349†	7180061.1	7411742.1	144.0	mg/L	144.0	mg/L	18:15:58
1	Fe 238.204†	15046563.6	15534048.0	134.6	mg/L	134.6	mg/L	18:15:58
1	Mg 279.077†	736182.9	759436.8	31.22	mg/L	31.22	mg/L	18:16:04
1	Mn 257.610†	2454540.7	2532890.4	2.863	mg/L	2.863	mg/L	18:16:04
1	Mo 202.031†	259.6	256.5	0.0161	mg/L	0.0161	mg/L	18:16:30
1	Ni 231.604†	5252.2	5393.5	0.1631	mg/L	0.1631	mg/L	18:16:30
1	P 214.914†	8758.5	8998.8	6.318	mg/L	6.318	mg/L	18:16:30
1	Pb 220.353†	7158.8	7552.7	0.8824	mg/L	0.8824	mg/L	18:16:30
1	Sb 206.836†	23.7	17.3	0.0003	mg/L	0.0003	mg/L	18:16:30
1	Se 196.026†	-10.8	0.1	-0.0103	mg/L	-0.0103	mg/L	18:16:30
1	Sn 189.927†	203.3	106.8	0.0345	mg/L	0.0345	mg/L	18:16:30
1	Sr 407.771†	5863496.6	6047907.6	0.2895	mg/L	0.2895	mg/L	18:15:58
1	Ti 337.279†	2015355.6	2082995.0	2.850	mg/L	2.850	mg/L	18:16:04
1	Tl 190.801†	-31.9	-27.9	0.0173	mg/L	0.0173	mg/L	18:16:30
1	V 292.402†	45713.0	49118.1	0.2004	mg/L	0.2004	mg/L	18:16:10
1	Zn 213.857†	88530.8	90751.4	1.094	mg/L	1.094	mg/L	18:16:10
2	K 766.490†	11440.1	11307.2	6.141	mg/L	6.141	mg/L	18:15:45
2	Li 670.784†	5470.0	5533.7	0.1542	mg/L	0.1542	mg/L	18:15:45
2	Na 589.592	46604.0	44358.2	5.204	mg/L	5.204	mg/L	18:15:45
2	Y 371.029	2991335.6	2991335.6	0.967	mg/L			18:16:46
2	Ag 328.068†	46895.7	50526.9	0.1956	mg/L	0.1956	mg/L	18:16:51
2	Al 237.313†	661343.7	684459.9	83.31	mg/L	83.31	mg/L	18:16:46
2	As 188.979†	45.5	38.8	0.0459	mg/L	0.0459	mg/L	18:17:11
2	B 182.528†	6.6	12.7	0.0226	mg/L	0.0226	mg/L	18:17:11
2	Ba 233.527†	73134.2	75852.8	0.6761	mg/L	0.6761	mg/L	18:16:51
2	Be 313.107†	21873.6	22605.7	0.0028	mg/L	0.0028	mg/L	18:16:51
2	Ca 315.886†	10020031.9	10364893.9	68.36	mg/L	68.36	mg/L	18:16:39
2	Cd 228.802†	289.6	161.9	0.0039	mg/L	0.0039	mg/L	18:17:11
2	Co 228.616†	2705.2	2987.5	0.0665	mg/L	0.0665	mg/L	18:17:11
2	Cr 267.716†	27610.6	26675.8	0.1859	mg/L	0.1859	mg/L	18:16:51
2	Cu 324.752†	140711.0	142912.3	0.6183	mg/L	0.6183	mg/L	18:16:51
2	Fe 234.349†	7123238.9	7368605.2	143.2	mg/L	143.2	mg/L	18:16:39
2	Fe 238.204†	14943178.2	15459884.9	133.9	mg/L	133.9	mg/L	18:16:39
2	Mg 279.077†	733268.4	758026.2	31.16	mg/L	31.16	mg/L	18:16:46
2	Mn 257.610†	2450188.9	2533738.8	2.864	mg/L	2.864	mg/L	18:16:46
2	Mo 202.031†	259.3	256.7	0.0161	mg/L	0.0161	mg/L	18:17:11
2	Ni 231.604†	5251.9	5404.6	0.1634	mg/L	0.1634	mg/L	18:17:11
2	P 214.914†	8713.7	8971.5	6.298	mg/L	6.298	mg/L	18:17:11
2	Pb 220.353†	7190.2	7600.7	0.8881	mg/L	0.8881	mg/L	18:17:11

2	Sb 206.836†	17.3	10.7	-0.0029 mg/L	-0.0029 mg/L	18:17:11
2	Se 196.026†	-12.8	-2.0	-0.0127 mg/L	-0.0127 mg/L	18:17:11
2	Sn 189.927†	214.3	118.6	0.0376 mg/L	0.0376 mg/L	18:17:11
2	Sr 407.771†	5828688.2	6024676.5	0.2884 mg/L	0.2884 mg/L	18:16:39
2	Ti 337.279†	2008442.2	2080235.7	2.846 mg/L	2.846 mg/L	18:16:46
2	Tl 190.801†	-23.1	-18.9	0.0244 mg/L	0.0244 mg/L	18:17:11
2	V 292.402†	45751.3	49257.4	0.2011 mg/L	0.2011 mg/L	18:16:51
2	Zn 213.857†	88626.3	91043.3	1.098 mg/L	1.098 mg/L	18:16:51

Mean Data: 0606113-09

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2994493.8	0.968	mg/L	0.0014				0.15%
Ag 328.068†	50418.1	0.1952	mg/L	0.00056	0.1952	mg/L	0.00056	0.28%
Al 237.313†	684383.3	83.30	mg/L	0.016	83.30	mg/L	0.016	0.02%
As 188.979†	38.8	0.0459	mg/L	0.00003	0.0459	mg/L	0.00003	0.06%
B 182.528†	16.3	0.0299	mg/L	0.01031	0.0299	mg/L	0.01031	34.45%
Ba 233.527†	75635.2	0.6742	mg/L	0.00275	0.6742	mg/L	0.00275	0.41%
Be 313.107†	22522.0	0.0027	mg/L	0.00003	0.0027	mg/L	0.00003	0.96%
Ca 315.886†	10400421.2	68.59	mg/L	0.331	68.59	mg/L	0.331	0.48%
Cd 228.802†	158.0	0.0038	mg/L	0.00013	0.0038	mg/L	0.00013	3.37%
Co 228.616†	2985.9	0.0665	mg/L	0.00006	0.0665	mg/L	0.00006	0.09%
Cr 267.716†	26519.3	0.1848	mg/L	0.00147	0.1848	mg/L	0.00147	0.79%
Cu 324.752†	142730.9	0.6177	mg/L	0.00095	0.6177	mg/L	0.00095	0.15%
Fe 234.349†	7390173.7	143.6	mg/L	0.59	143.6	mg/L	0.59	0.41%
Fe 238.204†	15496966.5	134.3	mg/L	0.45	134.3	mg/L	0.45	0.34%
K 766.490†	11277.0	6.125	mg/L	0.0232	6.125	mg/L	0.0232	0.38%
Li 670.784†	5551.3	0.1547	mg/L	0.00072	0.1547	mg/L	0.00072	0.46%
Mg 279.077†	758731.5	31.19	mg/L	0.041	31.19	mg/L	0.041	0.13%
Mn 257.610†	2533314.6	2.863	mg/L	0.0007	2.863	mg/L	0.0007	0.02%
Mo 202.031†	256.6	0.0161	mg/L	0.00001	0.0161	mg/L	0.00001	0.06%
Na 589.592	44409.0	5.210	mg/L	0.0088	5.210	mg/L	0.0088	0.17%
Ni 231.604†	5399.0	0.1633	mg/L	0.00024	0.1633	mg/L	0.00024	0.15%
P 214.914†	8985.1	6.308	mg/L	0.0136	6.308	mg/L	0.0136	0.22%
Pb 220.353†	7576.7	0.8853	mg/L	0.00397	0.8853	mg/L	0.00397	0.45%
Sb 206.836†	14.0	-0.0013	mg/L	0.00227	-0.0013	mg/L	0.00227	173.01%
Se 196.026†	-0.9	-0.0115	mg/L	0.00169	-0.0115	mg/L	0.00169	14.67%
Sn 189.927†	112.7	0.0361	mg/L	0.00213	0.0361	mg/L	0.00213	5.92%
Sr 407.771†	6036292.0	0.2889	mg/L	0.00079	0.2889	mg/L	0.00079	0.27%
Ti 337.279†	2081615.3	2.848	mg/L	0.0027	2.848	mg/L	0.0027	0.09%
Tl 190.801†	-23.4	0.0209	mg/L	0.00503	0.0209	mg/L	0.00503	24.13%
V 292.402†	49187.7	0.2007	mg/L	0.00053	0.2007	mg/L	0.00053	0.26%
Zn 213.857†	90897.3	1.096	mg/L	0.0026	1.096	mg/L	0.0026	0.23%

Sequence No.: 45
Sample ID: 0606113-10
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 45
Date Collected: 6/9/2006 6:18:49 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606113-10

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	23999.5	24546.2	13.33	mg/L	13.33	mg/L	18:20:26
1	Li 670.784†	3773.0	3816.4	0.1049	mg/L	0.1049	mg/L	18:20:26
1	Na 589.592	44556.1	42310.3	4.952	mg/L	4.952	mg/L	18:20:26
1	Y 371.029	2962141.2	2962141.2	0.957	mg/L			18:20:49
1	Ag 328.068†	-1107.0	850.7	0.0077	mg/L	0.0077	mg/L	18:20:54
1	Al 237.313†	556285.4	581436.1	70.75	mg/L	70.75	mg/L	18:20:49
1	As 188.979†	32.4	25.6	0.0257	mg/L	0.0257	mg/L	18:21:14
1	B 182.528†	14.1	20.6	0.0387	mg/L	0.0387	mg/L	18:21:14
1	Ba 233.527†	47601.1	49920.9	0.4444	mg/L	0.4444	mg/L	18:20:54
1	Be 313.107†	17675.6	18442.5	-0.0009	mg/L	-0.0009	mg/L	18:20:54
1	Ca 315.886†	1332820.1	1390455.2	9.159	mg/L	9.159	mg/L	18:20:49
1	Cd 228.802†	130.9	-1.0	0.0000	mg/L	0.0000	mg/L	18:21:14
1	Co 228.616†	3012.9	3336.5	0.0703	mg/L	0.0703	mg/L	18:21:14
1	Cr 267.716†	22672.5	21797.8	0.1515	mg/L	0.1515	mg/L	18:20:54
1	Cu 324.752†	95674.4	97291.8	0.4282	mg/L	0.4282	mg/L	18:20:54
1	Fe 234.349†	6219622.5	6497121.0	126.3	mg/L	126.3	mg/L	18:20:42

1	Fe 238.204†	13174613.2	13764421.9	119.2 mg/L	119.2 mg/L	18:20:42
1	Mg 279.077†	756263.0	789528.7	32.47 mg/L	32.47 mg/L	18:20:49
1	Mn 257.610†	2816023.5	2940956.9	3.325 mg/L	3.325 mg/L	18:20:49
1	Mo 202.031†	139.2	133.9	0.0077 mg/L	0.0077 mg/L	18:21:14
1	Ni 231.604†	4673.7	4854.1	0.1464 mg/L	0.1464 mg/L	18:21:14
1	P 214.914†	9646.9	10035.4	7.045 mg/L	7.045 mg/L	18:21:14
1	Pb 220.353†	1173.3	1387.5	0.1657 mg/L	0.1657 mg/L	18:21:14
1	Sb 206.836†	36.2	30.7	0.0046 mg/L	0.0046 mg/L	18:21:14
1	Se 196.026†	-6.6	4.4	-0.0053 mg/L	-0.0053 mg/L	18:21:14
1	Sn 189.927†	-8.0	-111.5	-0.0205 mg/L	-0.0205 mg/L	18:21:14
1	Sr 407.771†	930790.9	966667.9	0.0460 mg/L	0.0460 mg/L	18:20:49
1	Ti 337.279†	3626013.6	3790794.7	5.187 mg/L	5.187 mg/L	18:20:49
1	Tl 190.801†	-54.2	-51.7	0.0028 mg/L	0.0028 mg/L	18:21:14
1	V 292.402†	37774.0	41389.0	0.1644 mg/L	0.1644 mg/L	18:20:54
1	Zn 213.857†	32305.7	33101.8	0.3926 mg/L	0.3926 mg/L	18:20:54
2	K 766.490†	23699.9	24415.6	13.26 mg/L	13.26 mg/L	18:20:31
2	Li 670.784†	3763.3	3835.3	0.1055 mg/L	0.1055 mg/L	18:20:31
2	Na 589.592	44715.1	42469.2	4.972 mg/L	4.972 mg/L	18:20:31
2	Y 371.029	2940474.4	2940474.4	0.950 mg/L		18:21:29
2	Ag 328.068†	-1057.0	894.8	0.0079 mg/L	0.0079 mg/L	18:21:34
2	Al 237.313†	551719.9	580913.5	70.68 mg/L	70.68 mg/L	18:21:29
2	As 188.979†	31.6	25.1	0.0250 mg/L	0.0250 mg/L	18:21:55
2	B 182.528†	12.9	19.5	0.0364 mg/L	0.0364 mg/L	18:21:55
2	Ba 233.527†	47397.9	50073.6	0.4457 mg/L	0.4457 mg/L	18:21:34
2	Be 313.107†	17646.0	18547.4	-0.0009 mg/L	-0.0009 mg/L	18:21:34
2	Ca 315.886†	1320883.4	1388152.6	9.144 mg/L	9.144 mg/L	18:21:29
2	Cd 228.802†	126.7	-4.4	0.0000 mg/L	0.0000 mg/L	18:21:55
2	Co 228.616†	2998.6	3344.6	0.0705 mg/L	0.0705 mg/L	18:21:55
2	Cr 267.716†	22640.0	21938.2	0.1525 mg/L	0.1525 mg/L	18:21:34
2	Cu 324.752†	95062.3	97384.2	0.4288 mg/L	0.4288 mg/L	18:21:34
2	Fe 234.349†	6240971.6	6567474.8	127.6 mg/L	127.6 mg/L	18:21:22
2	Fe 238.204†	13225530.1	13919441.3	120.6 mg/L	120.6 mg/L	18:21:22
2	Mg 279.077†	750159.3	788926.8	32.44 mg/L	32.44 mg/L	18:21:29
2	Mn 257.610†	2793462.7	2938891.0	3.322 mg/L	3.322 mg/L	18:21:29
2	Mo 202.031†	127.6	122.8	0.0069 mg/L	0.0069 mg/L	18:21:55
2	Ni 231.604†	4704.5	4922.5	0.1485 mg/L	0.1485 mg/L	18:21:55
2	P 214.914†	9614.6	10075.6	7.074 mg/L	7.074 mg/L	18:21:55
2	Pb 220.353†	1174.3	1397.5	0.1668 mg/L	0.1668 mg/L	18:21:55
2	Sb 206.836†	45.1	40.3	0.0092 mg/L	0.0092 mg/L	18:21:55
2	Se 196.026†	-10.5	0.2	-0.0103 mg/L	-0.0103 mg/L	18:21:55
2	Sn 189.927†	-20.0	-124.2	-0.0238 mg/L	-0.0238 mg/L	18:21:55
2	Sr 407.771†	922702.2	965320.3	0.0460 mg/L	0.0460 mg/L	18:21:29
2	Ti 337.279†	3601072.3	3792459.2	5.189 mg/L	5.189 mg/L	18:21:29
2	Tl 190.801†	-47.0	-44.5	0.0083 mg/L	0.0083 mg/L	18:21:55
2	V 292.402†	37423.3	41310.7	0.1639 mg/L	0.1639 mg/L	18:21:34
2	Zn 213.857†	32244.7	33286.3	0.3947 mg/L	0.3947 mg/L	18:21:34

Mean Data: 0606113-10

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2951307.8	0.954	mg/L	0.0050				0.52%
Ag 328.068†	872.7	0.0078	mg/L	0.00016	0.0078	mg/L	0.00016	2.00%
Al 237.313†	581174.8	70.71	mg/L	0.050	70.71	mg/L	0.050	0.07%
As 188.979†	25.3	0.0253	mg/L	0.00049	0.0253	mg/L	0.00049	1.93%
B 182.528†	20.0	0.0375	mg/L	0.00162	0.0375	mg/L	0.00162	4.31%
Ba 233.527†	49997.2	0.4450	mg/L	0.00096	0.4450	mg/L	0.00096	0.22%
Be 313.107†	18495.0	-0.0009	mg/L	0.00002	-0.0009	mg/L	0.00002	2.40%
Ca 315.886†	1389303.9	9.151	mg/L	0.0107	9.151	mg/L	0.0107	0.12%
Cd 228.802†	-2.7	0.0000	mg/L	0.00005	0.0000	mg/L	0.00005	366.24%
Co 228.616†	3340.6	0.0704	mg/L	0.00014	0.0704	mg/L	0.00014	0.20%
Cr 267.716†	21868.0	0.1520	mg/L	0.00073	0.1520	mg/L	0.00073	0.48%
Cu 324.752†	97338.0	0.4285	mg/L	0.00045	0.4285	mg/L	0.00045	0.10%
Fe 234.349†	6532297.9	127.0	mg/L	0.97	127.0	mg/L	0.97	0.76%
Fe 238.204†	13841931.6	119.9	mg/L	0.95	119.9	mg/L	0.95	0.79%
K 766.490†	24480.9	13.29	mg/L	0.050	13.29	mg/L	0.050	0.38%
Li 670.784†	3825.9	0.1052	mg/L	0.00038	0.1052	mg/L	0.00038	0.36%
Mg 279.077†	789227.8	32.45	mg/L	0.018	32.45	mg/L	0.018	0.06%
Mn 257.610†	2939923.9	3.323	mg/L	0.0017	3.323	mg/L	0.0017	0.05%
Mo 202.031†	128.3	0.0073	mg/L	0.00054	0.0073	mg/L	0.00054	7.39%
Na 589.592	42389.8	4.962	mg/L	0.0138	4.962	mg/L	0.0138	0.28%
Ni 231.604†	4888.3	0.1474	mg/L	0.00150	0.1474	mg/L	0.00150	1.02%

P 214.914†	10055.5	7.060	mg/L	0.0200	7.060	mg/L	0.0200 0.28%
Pb 220.353†	1392.5	0.1663	mg/L	0.00077	0.1663	mg/L	0.00077 0.46%
Sb 206.836†	35.5	0.0069	mg/L	0.00326	0.0069	mg/L	0.00326 47.05%
Se 196.026†	2.3	-0.0078	mg/L	0.00349	-0.0078	mg/L	0.00349 44.72%
Sn 189.927†	-117.8	-0.0221	mg/L	0.00229	-0.0221	mg/L	0.00229 10.34%
Sr 407.771†	965994.1	0.0460	mg/L	0.00005	0.0460	mg/L	0.00005 0.10%
Ti 337.279†	3791627.0	5.188	mg/L	0.0016	5.188	mg/L	0.0016 0.03%
Tl 190.801†	-48.1	0.0055	mg/L	0.00394	0.0055	mg/L	0.00394 71.17%
V 292.402†	41349.9	0.1642	mg/L	0.00039	0.1642	mg/L	0.00039 0.24%
Zn 213.857†	33194.1	0.3936	mg/L	0.00150	0.3936	mg/L	0.00150 0.38%

Sequence No.: 46 **Autosampler Location: 46**
Sample ID: 0606113-11 **Date Collected: 6/9/2006 6:23:32 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: 0606113-11

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	15102.1	15256.9	8.285	mg/L	8.285	mg/L	18:25:07
1	Li 670.784†	5240.5	5352.2	0.1490	mg/L	0.1490	mg/L	18:25:07
1	Na 589.592	52109.0	49863.2	5.882	mg/L	5.882	mg/L	18:25:07
1	Y 371.029	2960837.3	2960837.3	0.957	mg/L			18:25:30
1	Ag 328.068†	54013.3	58466.6	0.2256	mg/L	0.2256	mg/L	18:25:36
1	Al 237.313†	701638.6	733627.6	89.34	mg/L	89.34	mg/L	18:25:30
1	As 188.979†	51.6	45.7	0.0547	mg/L	0.0547	mg/L	18:25:56
1	B 182.528†	9.9	16.3	0.0299	mg/L	0.0299	mg/L	18:25:56
1	Ba 233.527†	79186.4	82958.5	0.7396	mg/L	0.7396	mg/L	18:25:36
1	Be 313.107†	21836.8	22800.3	0.0021	mg/L	0.0021	mg/L	18:25:36
1	Ca 315.886†	14437925.4	15089637.1	99.52	mg/L	99.52	mg/L	18:25:24
1	Cd 228.802†	388.6	268.5	0.0064	mg/L	0.0064	mg/L	18:25:56
1	Co 228.616†	2993.1	3317.2	0.0735	mg/L	0.0735	mg/L	18:25:56
1	Cr 267.716†	29704.4	29158.6	0.2029	mg/L	0.2029	mg/L	18:25:36
1	Cu 324.752†	229824.0	237560.4	1.011	mg/L	1.011	mg/L	18:25:36
1	Fe 234.349†	7061053.2	7379517.4	143.4	mg/L	143.4	mg/L	18:25:24
1	Fe 238.204†	14795956.2	15465248.9	134.0	mg/L	134.0	mg/L	18:25:24
1	Mg 279.077†	746554.0	779728.1	32.05	mg/L	32.05	mg/L	18:25:30
1	Mn 257.610†	2240304.3	2340461.9	2.645	mg/L	2.645	mg/L	18:25:30
1	Mo 202.031†	290.3	291.9	0.0185	mg/L	0.0185	mg/L	18:25:56
1	Ni 231.604†	5831.9	6066.9	0.1840	mg/L	0.1840	mg/L	18:25:36
1	P 214.914†	10033.3	10443.7	7.332	mg/L	7.332	mg/L	18:25:56
1	Pb 220.353†	13512.2	14285.6	1.665	mg/L	1.665	mg/L	18:25:36
1	Sb 206.836†	23.2	17.1	-0.0007	mg/L	-0.0007	mg/L	18:25:56
1	Se 196.026†	-7.7	3.2	-0.0067	mg/L	-0.0067	mg/L	18:25:56
1	Sn 189.927†	421.5	337.4	0.0951	mg/L	0.0951	mg/L	18:25:56
1	Sr 407.771†	Saturated2	Saturated2					18:25:56
Saturated in preshot (code 2)								
1	Ti 337.279†	2406956.3	2518200.9	3.446	mg/L	3.446	mg/L	18:25:30
1	Tl 190.801†	-17.1	-12.9	0.0241	mg/L	0.0241	mg/L	18:25:56
1	V 292.402†	51405.8	55655.5	0.2294	mg/L	0.2294	mg/L	18:25:36
1	Zn 213.857†	129309.4	134513.1	1.629	mg/L	1.629	mg/L	18:25:36
2	K 766.490†	15125.5	15266.9	8.291	mg/L	8.291	mg/L	18:25:12
2	Li 670.784†	5186.1	5290.3	0.1472	mg/L	0.1472	mg/L	18:25:12
2	Na 589.592	52003.1	49757.3	5.869	mg/L	5.869	mg/L	18:25:12
2	Y 371.029	2963550.8	2963550.8	0.958	mg/L			18:26:11
2	Ag 328.068†	53762.5	58152.9	0.2244	mg/L	0.2244	mg/L	18:26:16
2	Al 237.313†	700495.2	731762.0	89.11	mg/L	89.11	mg/L	18:26:11
2	As 188.979†	57.1	51.4	0.0625	mg/L	0.0625	mg/L	18:26:36
2	B 182.528†	15.4	22.0	0.0416	mg/L	0.0416	mg/L	18:26:36
2	Ba 233.527†	78898.2	82581.7	0.7362	mg/L	0.7362	mg/L	18:26:16
2	Be 313.107†	21736.2	22674.3	0.0021	mg/L	0.0021	mg/L	18:26:16
2	Ca 315.886†	14468187.0	15107421.7	99.64	mg/L	99.64	mg/L	18:26:04
2	Cd 228.802†	395.0	274.8	0.0065	mg/L	0.0065	mg/L	18:26:36
2	Co 228.616†	2967.0	3287.1	0.0728	mg/L	0.0728	mg/L	18:26:36
2	Cr 267.716†	29632.6	29055.3	0.2022	mg/L	0.2022	mg/L	18:26:16
2	Cu 324.752†	230029.2	237554.7	1.011	mg/L	1.011	mg/L	18:26:16
2	Fe 234.349†	7063956.6	7375791.5	143.4	mg/L	143.4	mg/L	18:26:04
2	Fe 238.204†	14813008.7	15468896.2	134.0	mg/L	134.0	mg/L	18:26:04
2	Mg 279.077†	746778.5	779248.0	32.03	mg/L	32.03	mg/L	18:26:11

2	Mn 257.610†	2237751.0	2335651.2	2.640 mg/L	2.640 mg/L	18:26:11
2	Mo 202.031†	278.5	279.3	0.0176 mg/L	0.0176 mg/L	18:26:36
2	Ni 231.604†	5806.5	6034.8	0.1830 mg/L	0.1830 mg/L	18:26:16
2	P 214.914†	9921.2	10317.1	7.243 mg/L	7.243 mg/L	18:26:36
2	Pb 220.353†	13504.4	14264.6	1.662 mg/L	1.662 mg/L	18:26:16
2	Sb 206.836†	31.1	25.3	0.0032 mg/L	0.0032 mg/L	18:26:36
2	Se 196.026†	-5.7	5.2	-0.0043 mg/L	-0.0043 mg/L	18:26:36
2	Sn 189.927†	421.5	337.0	0.0950 mg/L	0.0950 mg/L	18:26:36
2	Sr 407.771†	Saturated2	Saturated2			18:26:36
Saturated in preshot (code 2)						
2	Ti 337.279†	2406302.0	2515214.0	3.441 mg/L	3.441 mg/L	18:26:11
2	Tl 190.801†	-9.4	-4.8	0.0304 mg/L	0.0304 mg/L	18:26:36
2	V 292.402†	51314.9	55511.4	0.2288 mg/L	0.2288 mg/L	18:26:16
2	Zn 213.857†	129014.4	134081.4	1.623 mg/L	1.623 mg/L	18:26:16

Mean Data: 0606113-11

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2962194.1	0.957	mg/L	0.0006				0.06%
Ag 328.068†	58309.7	0.2250	mg/L	0.00084	0.2250	mg/L	0.00084	0.37%
Al 237.313†	732694.8	89.23	mg/L	0.162	89.23	mg/L	0.162	0.18%
As 188.979†	48.5	0.0586	mg/L	0.00546	0.0586	mg/L	0.00546	9.31%
B 182.528†	19.1	0.0357	mg/L	0.00826	0.0357	mg/L	0.00826	23.12%
Ba 233.527†	82770.1	0.7379	mg/L	0.00238	0.7379	mg/L	0.00238	0.32%
Be 313.107†	22737.3	0.0021	mg/L	0.00002	0.0021	mg/L	0.00002	0.81%
Ca 315.886†	15098529.4	99.58	mg/L	0.083	99.58	mg/L	0.083	0.08%
Cd 228.802†	271.6	0.0064	mg/L	0.00007	0.0064	mg/L	0.00007	1.11%
Co 228.616†	3302.1	0.0731	mg/L	0.00053	0.0731	mg/L	0.00053	0.72%
Cr 267.716†	29106.9	0.2025	mg/L	0.00050	0.2025	mg/L	0.00050	0.25%
Cu 324.752†	237557.6	1.011	mg/L	0.0000	1.011	mg/L	0.0000	0.00%
Fe 234.349†	7377654.5	143.4	mg/L	0.05	143.4	mg/L	0.05	0.04%
Fe 238.204†	15467072.6	134.0	mg/L	0.02	134.0	mg/L	0.02	0.02%
K 766.490†	15261.9	8.288	mg/L	0.0038	8.288	mg/L	0.0038	0.05%
Li 670.784†	5321.2	0.1481	mg/L	0.00125	0.1481	mg/L	0.00125	0.85%
Mg 279.077†	779488.1	32.04	mg/L	0.014	32.04	mg/L	0.014	0.04%
Mn 257.610†	2338056.6	2.642	mg/L	0.0038	2.642	mg/L	0.0038	0.15%
Mo 202.031†	285.6	0.0181	mg/L	0.00061	0.0181	mg/L	0.00061	3.38%
Na 589.592	49810.2	5.875	mg/L	0.0092	5.875	mg/L	0.0092	0.16%
Ni 231.604†	6050.8	0.1835	mg/L	0.00071	0.1835	mg/L	0.00071	0.38%
P 214.914†	10380.4	7.288	mg/L	0.0629	7.288	mg/L	0.0629	0.86%
Pb 220.353†	14275.1	1.663	mg/L	0.0018	1.663	mg/L	0.0018	0.11%
Sb 206.836†	21.2	0.0012	mg/L	0.00280	0.0012	mg/L	0.00280	226.65%
Se 196.026†	4.2	-0.0055	mg/L	0.00170	-0.0055	mg/L	0.00170	30.88%
Sn 189.927†	337.2	0.0951	mg/L	0.00008	0.0951	mg/L	0.00008	0.08%
Sr 407.771†	Saturated2							
Ti 337.279†	2516707.5	3.444	mg/L	0.0029	3.444	mg/L	0.0029	0.08%
Tl 190.801†	-8.8	0.0272	mg/L	0.00442	0.0272	mg/L	0.00442	16.21%
V 292.402†	55583.5	0.2291	mg/L	0.00046	0.2291	mg/L	0.00046	0.20%
Zn 213.857†	134297.2	1.626	mg/L	0.0037	1.626	mg/L	0.0037	0.23%

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Sequence No.: 47
Sample ID: BF60914-DUP1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 47
Date Collected: 6/9/2006 6:28:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60914-DUP1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	15055.3	15148.9	8.227	mg/L	8.227	mg/L	18:29:52
1	Li 670.784†	5471.6	5572.2	0.1553	mg/L	0.1553	mg/L	18:29:52
1	Na 589.592	50843.9	48598.1	5.726	mg/L	5.726	mg/L	18:29:52
1	Y 371.029	2972005.7	2972005.7	0.960	mg/L			18:30:15
1	Ag 328.068†	68516.0	73356.9	0.2819	mg/L	0.2819	mg/L	18:30:21
1	Al 237.313†	715780.6	745598.4	90.78	mg/L	90.78	mg/L	18:30:15
1	As 188.979†	58.1	52.3	0.0635	mg/L	0.0635	mg/L	18:30:41
1	B 182.528†	14.8	21.3	0.0401	mg/L	0.0401	mg/L	18:30:41
1	Ba 233.527†	78334.3	81760.1	0.7289	mg/L	0.7289	mg/L	18:30:21
1	Be 313.107†	22978.4	23903.3	0.0022	mg/L	0.0022	mg/L	18:30:21

1	Ca 315.886†	13556219.7	14114754.5	93.09 mg/L	93.09 mg/L	18:30:09
1	Cd 228.802†	367.9	245.4	0.0058 mg/L	0.0058 mg/L	18:30:41
1	Co 228.616†	3075.8	3391.6	0.0748 mg/L	0.0748 mg/L	18:30:41
1	Cr 267.716†	28951.6	28258.0	0.1970 mg/L	0.1970 mg/L	18:30:21
1	Cu 324.752†	383726.5	396925.1	1.673 mg/L	1.673 mg/L	18:30:15
1	Fe 234.349†	7389884.8	7694212.6	149.5 mg/L	149.5 mg/L	18:30:09
1	Fe 238.204†	15460856.4	16099528.6	139.5 mg/L	139.5 mg/L	18:30:09
1	Mg 279.077†	746802.1	777053.9	31.94 mg/L	31.94 mg/L	18:30:15
1	Mn 257.610†	2432420.2	2531723.3	2.861 mg/L	2.861 mg/L	18:30:15
1	Mo 202.031†	275.7	275.5	0.0174 mg/L	0.0174 mg/L	18:30:41
1	Ni 231.604†	5943.2	6159.9	0.1868 mg/L	0.1868 mg/L	18:30:21
1	P 214.914†	9655.6	10011.0	7.028 mg/L	7.028 mg/L	18:30:41
1	Pb 220.353†	11637.2	12280.1	1.432 mg/L	1.432 mg/L	18:30:41
1	Sb 206.836†	29.7	23.8	0.0024 mg/L	0.0024 mg/L	18:30:41
1	Se 196.026†	-5.8	5.2	-0.0043 mg/L	-0.0043 mg/L	18:30:41
1	Sn 189.927†	885.1	818.5	0.2207 mg/L	0.2207 mg/L	18:30:41
1	Sr 407.771†	Saturated2	Saturated2			18:30:41
Saturated in preshot (code 2)						
1	Ti 337.279†	2584780.0	2693924.3	3.686 mg/L	3.686 mg/L	18:30:15
1	Tl 190.801†	-26.2	-22.3	0.0200 mg/L	0.0200 mg/L	18:30:41
1	V 292.402†	54631.2	58812.4	0.2426 mg/L	0.2426 mg/L	18:30:21
1	Zn 213.857†	126400.6	130976.2	1.585 mg/L	1.585 mg/L	18:30:21
2	K 766.490†	14983.5	15076.2	8.187 mg/L	8.187 mg/L	18:29:57
2	Li 670.784†	5439.7	5539.7	0.1544 mg/L	0.1544 mg/L	18:29:57
2	Na 589.592	50638.6	48392.8	5.701 mg/L	5.701 mg/L	18:29:57
2	Y 371.029	2971611.2	2971611.2	0.960 mg/L		18:30:56
2	Ag 328.068†	68893.2	73759.2	0.2834 mg/L	0.2834 mg/L	18:31:02
2	Al 237.313†	715363.2	745262.7	90.75 mg/L	90.75 mg/L	18:30:56
2	As 188.979†	51.0	44.9	0.0534 mg/L	0.0534 mg/L	18:31:22
2	B 182.528†	15.4	21.9	0.0414 mg/L	0.0414 mg/L	18:31:22
2	Ba 233.527†	79027.2	82492.6	0.7354 mg/L	0.7354 mg/L	18:31:02
2	Be 313.107†	23138.4	24073.2	0.0022 mg/L	0.0022 mg/L	18:31:02
2	Ca 315.886†	13404474.6	13958586.4	92.06 mg/L	92.06 mg/L	18:30:49
2	Cd 228.802†	366.7	244.2	0.0058 mg/L	0.0058 mg/L	18:31:22
2	Co 228.616†	3083.3	3399.8	0.0751 mg/L	0.0751 mg/L	18:31:22
2	Cr 267.716†	29140.5	28458.7	0.1983 mg/L	0.1983 mg/L	18:31:02
2	Cu 324.752†	383339.7	396575.3	1.671 mg/L	1.671 mg/L	18:30:56
2	Fe 234.349†	7324471.7	7627106.6	148.2 mg/L	148.2 mg/L	18:30:49
2	Fe 238.204†	15329703.3	15965070.2	138.3 mg/L	138.3 mg/L	18:30:49
2	Mg 279.077†	746502.6	776845.2	31.93 mg/L	31.93 mg/L	18:30:56
2	Mn 257.610†	2430725.8	2530294.6	2.860 mg/L	2.860 mg/L	18:30:56
2	Mo 202.031†	266.6	266.1	0.0167 mg/L	0.0167 mg/L	18:31:22
2	Ni 231.604†	5941.0	6158.4	0.1868 mg/L	0.1868 mg/L	18:31:02
2	P 214.914†	9700.6	10059.1	7.062 mg/L	7.062 mg/L	18:31:22
2	Pb 220.353†	11641.2	12285.8	1.432 mg/L	1.432 mg/L	18:31:22
2	Sb 206.836†	18.0	11.7	-0.0035 mg/L	-0.0035 mg/L	18:31:22
2	Se 196.026†	-5.5	5.5	-0.0040 mg/L	-0.0040 mg/L	18:31:22
2	Sn 189.927†	868.2	801.1	0.2161 mg/L	0.2161 mg/L	18:31:22
2	Sr 407.771†	Saturated2	Saturated2			18:31:22
Saturated in preshot (code 2)						
2	Ti 337.279†	2578964.7	2688225.0	3.678 mg/L	3.678 mg/L	18:30:56
2	Tl 190.801†	-26.7	-22.8	0.0196 mg/L	0.0196 mg/L	18:31:22
2	V 292.402†	54907.8	59108.0	0.2441 mg/L	0.2441 mg/L	18:31:02
2	Zn 213.857†	127863.6	132517.3	1.604 mg/L	1.604 mg/L	18:31:02

Mean Data: BF60914-DUP1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2971808.4	0.960	mg/L	0.0001				0.01%
Ag 328.068†	73558.0	0.2827	mg/L	0.00104	0.2827	mg/L	0.00104	0.37%
Al 237.313†	745430.5	90.76	mg/L	0.025	90.76	mg/L	0.025	0.03%
As 188.979†	48.6	0.0584	mg/L	0.00714	0.0584	mg/L	0.00714	12.23%
B 182.528†	21.6	0.0407	mg/L	0.00091	0.0407	mg/L	0.00091	2.24%
Ba 233.527†	82126.3	0.7321	mg/L	0.00463	0.7321	mg/L	0.00463	0.63%
Be 313.107†	23988.3	0.0022	mg/L	0.00003	0.0022	mg/L	0.00003	1.28%
Ca 315.886†	14036670.4	92.58	mg/L	0.728	92.58	mg/L	0.728	0.79%
Cd 228.802†	244.8	0.0058	mg/L	0.00001	0.0058	mg/L	0.00001	0.25%
Co 228.616†	3395.7	0.0750	mg/L	0.00016	0.0750	mg/L	0.00016	0.21%
Cr 267.716†	28358.4	0.1976	mg/L	0.00091	0.1976	mg/L	0.00091	0.46%
Cu 324.752†	396750.2	1.672	mg/L	0.0012	1.672	mg/L	0.0012	0.07%
Fe 234.349†	7660659.6	148.9	mg/L	0.92	148.9	mg/L	0.92	0.62%

Fe 238.204†	16032299.4	138.9	mg/L	0.82	138.9	mg/L	0.82 0.59%
K 766.490†	15112.5	8.207	mg/L	0.0279	8.207	mg/L	0.0279 0.34%
Li 670.784†	5555.9	0.1549	mg/L	0.00066	0.1549	mg/L	O.00066 0.43%
Mg 279.077†	776949.6	31.94	mg/L	0.006	31.94	mg/L	0.006 0.02%
Mn 257.610†	2531009.0	2.861	mg/L	0.0011	2.861	mg/L	0.0011 0.04%
Mo 202.031†	270.8	0.0171	mg/L	0.00045	0.0171	mg/L	O.00045 2.66%
Na 589.592	48495.5	5.714	mg/L	0.0179	5.714	mg/L	0.0179 0.31%
Ni 231.604†	6159.1	0.1868	mg/L	0.00003	0.1868	mg/L	O.00003 0.02%
P 214.914†	10035.1	7.045	mg/L	0.0239	7.045	mg/L	0.0239 0.34%
Pb 220.353†	12282.9	1.432	mg/L	0.0005	1.432	mg/L	0.0005 0.04%
Sb 206.836†	17.7	-0.0005	mg/L	0.00415	-0.0005	mg/L	O.00415 783.74%
Se 196.026†	5.4	-0.0042	mg/L	0.00021	-0.0042	mg/L	O.00021 5.03%
Sn 189.927†	809.8	0.2184	mg/L	0.00326	0.2184	mg/L	O.00326 1.49%
Sr 407.771†	Saturated2						
Ti 337.279†	2691074.6	3.682	mg/L	0.0055	3.682	mg/L	0.0055 0.15%
Tl 190.801†	-22.5	0.0198	mg/L	0.00030	0.0198	mg/L	O.00030 1.50%
V 292.402†	58960.2	0.2434	mg/L	0.00107	0.2434	mg/L	O.00107 0.44%
Zn 213.857†	131746.7	1.594	mg/L	0.0134	1.594	mg/L	0.0134 0.84%

Duplicate Check: BF60914-DUP1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	8.288	8.207	0.028	mg/L	1.0
Li 670.784	0.1481	0.1549	0.001	mg/L	4.4
Na 589.592	5.875	5.714	0.018	mg/L	2.8
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.2250	0.2827	0.001	mg/L	22.7
Al 237.313	89.23	90.76	0.025	mg/L	1.7
As 188.979	0.0586	0.0584	0.007	mg/L	0.3
B 182.528	0.0357	0.0407	0.001	mg/L	13.2
Ba 233.527	0.7379	0.7321	0.005	mg/L	0.8
Be 313.107	0.0021	0.0022	0.000	mg/L	2.2
Ca 315.886	99.58	92.58	0.728	mg/L	7.3
Cd 228.802	0.0064	0.0058	0.000	mg/L	9.6
Co 228.616	0.0731	0.0750	0.000	mg/L	2.5
Cr 267.716	0.2025	0.1976	0.001	mg/L	2.4
Cu 324.752	1.011	1.672	0.001	mg/L	49.3
Fe 234.349	143.4	148.9	0.922	mg/L	3.8
Fe 238.204	134.0	138.9	0.824	mg/L	3.6
Mg 279.077	32.04	31.94	0.006	mg/L	0.3
Mn 257.610	2.642	2.861	0.001	mg/L	7.9
Mo 202.031	0.0181	0.0171	0.000	mg/L	5.8
Ni 231.604	0.1835	0.1868	0.000	mg/L	1.8
P 214.914	7.288	7.045	0.024	mg/L	3.4
Pb 220.353	1.663	1.432	0.001	mg/L	14.9
Sb 206.836	0.0012	-0.0005	0.004	mg/L	500.4
Se 196.026	-0.0055	-0.0042	0.000	mg/L	-27.6
Sn 189.927	0.0951	0.2184	0.003	mg/L	78.7
Sr 407.771			0.000	mg/L	Not calculated
Ti 337.279	3.444	3.682	0.006	mg/L	6.7
Tl 190.801	0.0272	0.0198	0.000	mg/L	31.5
V 292.402	0.2291	0.2434	0.001	mg/L	6.1
Zn 213.857	1.626	1.594	0.013	mg/L	2.0

Sequence No.: 48
Sample ID: BF60914-MS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 48
Date Collected: 6/9/2006 6:33:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60914-MS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	51826.6	53579.9	29.09	mg/L	29.09	mg/L	18:34:37
1	Li 670.784†	19794.8	20540.9	0.5848	mg/L	0.5848	mg/L	18:34:37
1	Na 589.592	220663.9	218418.1	26.64	mg/L	26.64	mg/L	18:34:37
1	Y 371.029	2964372.6	2964372.6	0.958	mg/L			18:35:02
1	Ag 328.068†	97900.6	104219.3	0.3987	mg/L	0.3987	mg/L	18:35:02
1	Al 237.313†	736878.2	769544.4	93.70	mg/L	93.70	mg/L	18:35:02

1	As 188.979†	304.5	309.7	0.4142 mg/L	0.4142 mg/L	18:35:23
1	B 182.528†	187.6	201.8	0.4079 mg/L	0.4079 mg/L	18:35:23
1	Ba 233.527†	112366.5	117501.1	1.048 mg/L	1.048 mg/L	18:35:02
1	Be 313.107†	195896.7	204498.3	0.0425 mg/L	0.0425 mg/L	18:35:02
1	Ca 315.886†	10953663.2	11433935.6	75.41 mg/L	75.41 mg/L	18:34:54
1	Cd 228.802†	8492.0	8728.2	0.2070 mg/L	0.2070 mg/L	18:35:23
1	Co 228.616†	18283.2	19276.9	0.4723 mg/L	0.4723 mg/L	18:35:23
1	Cr 267.716†	84882.3	86729.5	0.5936 mg/L	0.5936 mg/L	18:35:02
1	Cu 324.752†	366558.8	380030.3	1.604 mg/L	1.604 mg/L	18:35:02
1	Fe 234.349†	7583082.5	7915733.7	153.8 mg/L	153.8 mg/L	18:34:54
1	Fe 238.204†	15821058.4	16517050.3	143.1 mg/L	143.1 mg/L	18:34:54
1	Mg 279.077†	825320.6	861032.8	35.40 mg/L	35.40 mg/L	18:35:02
1	Mn 257.610†	2658781.5	2774575.4	3.136 mg/L	3.136 mg/L	18:35:02
1	Mo 202.031†	5883.8	6131.4	0.4184 mg/L	0.4184 mg/L	18:35:23
1	Ni 231.604†	17514.4	18256.6	0.5623 mg/L	0.5623 mg/L	18:35:23
1	P 214.914†	14664.0	15265.8	10.72 mg/L	10.72 mg/L	18:35:23
1	Pb 220.353†	13404.5	14156.4	1.650 mg/L	1.650 mg/L	18:35:23
1	Sb 206.836†	502.8	517.8	0.2317 mg/L	0.2317 mg/L	18:35:23
1	Se 196.026†	611.4	649.6	0.7524 mg/L	0.7524 mg/L	18:35:23
1	Sn 189.927†	2079.0	2067.5	0.5460 mg/L	0.5460 mg/L	18:35:23
1	Sr 407.771†	Saturated2	Saturated2			18:35:23
Saturated in preshot (code 2)						
1	Ti 337.279†	2784330.0	2909193.0	3.981 mg/L	3.981 mg/L	18:35:02
1	Tl 190.801†	445.0	469.6	0.4041 mg/L	0.4041 mg/L	18:35:23
1	V 292.402†	134655.7	142507.5	0.6284 mg/L	0.6284 mg/L	18:35:02
1	Zn 213.857†	146376.2	152170.4	1.842 mg/L	1.842 mg/L	18:35:02
2	K 766.490†	52261.3	53660.3	29.13 mg/L	29.13 mg/L	18:34:42
2	Li 670.784†	19884.2	20492.1	0.5834 mg/L	0.5834 mg/L	18:34:42
2	Na 589.592	220399.3	218153.5	26.60 mg/L	26.60 mg/L	18:34:42
2	Y 371.029	2984802.1	2984802.1	0.964 mg/L		18:35:39
2	Ag 328.068†	98654.0	104300.9	0.3990 mg/L	0.3990 mg/L	18:35:39
2	Al 237.313†	740695.2	768236.6	93.55 mg/L	93.55 mg/L	18:35:39
2	As 188.979†	305.5	308.5	0.4127 mg/L	0.4127 mg/L	18:36:00
2	B 182.528†	189.2	202.0	0.4084 mg/L	0.4084 mg/L	18:36:00
2	Ba 233.527†	112786.4	117133.5	1.045 mg/L	1.045 mg/L	18:35:39
2	Be 313.107†	196979.6	204221.3	0.0424 mg/L	0.0424 mg/L	18:35:39
2	Ca 315.886†	10892379.4	11292117.1	74.47 mg/L	74.47 mg/L	18:35:31
2	Cd 228.802†	8494.0	8669.6	0.2056 mg/L	0.2056 mg/L	18:36:00
2	Co 228.616†	18268.3	19130.9	0.4687 mg/L	0.4687 mg/L	18:36:00
2	Cr 267.716†	85366.6	86625.1	0.5928 mg/L	0.5928 mg/L	18:35:39
2	Cu 324.752†	368716.8	379648.4	1.602 mg/L	1.602 mg/L	18:35:39
2	Fe 234.349†	7551145.7	7828430.8	152.1 mg/L	152.1 mg/L	18:35:31
2	Fe 238.204†	15740013.0	16319959.2	141.4 mg/L	141.4 mg/L	18:35:31
2	Mg 279.077†	830321.8	860320.8	35.37 mg/L	35.37 mg/L	18:35:39
2	Mn 257.610†	2673000.3	2770319.3	3.132 mg/L	3.132 mg/L	18:35:39
2	Mo 202.031†	5856.5	6061.0	0.4136 mg/L	0.4136 mg/L	18:36:00
2	Ni 231.604†	17585.0	18204.6	0.5607 mg/L	0.5607 mg/L	18:36:00
2	P 214.914†	14629.9	15125.6	10.62 mg/L	10.62 mg/L	18:36:00
2	Pb 220.353†	13373.3	14028.2	1.636 mg/L	1.636 mg/L	18:36:00
2	Sb 206.836†	503.4	514.8	0.2303 mg/L	0.2303 mg/L	18:36:00
2	Se 196.026†	606.7	640.3	0.7416 mg/L	0.7416 mg/L	18:36:00
2	Sn 189.927†	2075.0	2048.4	0.5410 mg/L	0.5410 mg/L	18:36:00
2	Sr 407.771†	Saturated2	Saturated2			18:36:00
Saturated in preshot (code 2)						
2	Ti 337.279†	2801726.3	2907334.5	3.978 mg/L	3.978 mg/L	18:35:39
2	Tl 190.801†	440.1	461.3	0.3976 mg/L	0.3976 mg/L	18:36:00
2	V 292.402†	135437.0	142355.4	0.6279 mg/L	0.6279 mg/L	18:35:39
2	Zn 213.857†	147173.3	151950.8	1.839 mg/L	1.839 mg/L	18:35:39

Mean Data: BF60914-MS1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2974587.3	0.961	mg/L	0.0047				0.49%
Ag 328.068†	104260.1	0.3988	mg/L	0.00017	0.3988	mg/L	0.00017	0.04%
Al 237.313†	768890.5	93.63	mg/L	0.108	93.63	mg/L	0.108	0.12%
As 188.979†	309.1	0.4134	mg/L	0.00109	0.4134	mg/L	0.00109	0.26%
B 182.528†	201.9	0.4081	mg/L	0.00032	0.4081	mg/L	0.00032	0.08%
Ba 233.527†	117317.3	1.047	mg/L	0.0023	1.047	mg/L	0.0023	0.22%
Be 313.107†	204359.8	0.0425	mg/L	0.00005	0.0425	mg/L	0.00005	0.12%
Ca 315.886†	11363026.4	74.94	mg/L	0.661	74.94	mg/L	0.661	0.88%
Cd 228.802†	8698.9	0.2063	mg/L	0.00100	0.2063	mg/L	0.00100	0.48%

Co 228.616†	19203.9	0.4705	mg/L	0.00258	0.4705	mg/L	0.00258	0.55%
Cr 267.716†	86677.3	0.5932	mg/L	0.00057	0.5932	mg/L	0.00057	0.10%
Cu 324.752†	379839.4	1.603	mg/L	0.0013	1.603	mg/L	0.0013	0.08%
Fe 234.349†	7872082.2	153.0	mg/L	1.20	153.0	mg/L	1.20	0.78%
Fe 238.204†	16418504.7	142.2	mg/L	1.21	142.2	mg/L	1.21	0.85%
K 766.490†	53620.1	29.11	mg/L	0.031	29.11	mg/L	0.031	0.11%
Li 670.784†	20516.5	0.5841	mg/L	0.00099	0.5841	mg/L	0.00099	0.17%
Mg 279.077†	860676.8	35.38	mg/L	0.020	35.38	mg/L	0.020	0.06%
Mn 257.610†	2772447.4	3.134	mg/L	0.0034	3.134	mg/L	0.0034	0.11%
Mo 202.031†	6096.2	0.4160	mg/L	0.00341	0.4160	mg/L	0.00341	0.82%
Na 589.592	218285.8	26.62	mg/L	0.023	26.62	mg/L	0.023	0.09%
Ni 231.604†	18230.6	0.5615	mg/L	0.00114	0.5615	mg/L	0.00114	0.20%
P 214.914†	15195.7	10.67	mg/L	0.070	10.67	mg/L	0.070	0.65%
Pb 220.353†	14092.3	1.643	mg/L	0.0105	1.643	mg/L	0.0105	0.64%
Sb 206.836†	516.3	0.2310	mg/L	0.00100	0.2310	mg/L	0.00100	0.43%
Se 196.026†	645.0	0.7470	mg/L	0.00766	0.7470	mg/L	0.00766	1.03%
Sn 189.927†	2057.9	0.5435	mg/L	0.00356	0.5435	mg/L	0.00356	0.65%
Sr 407.771†	Saturated2							
Ti 337.279†	2908263.8	3.979	mg/L	0.0018	3.979	mg/L	0.0018	0.05%
Tl 190.801†	465.5	0.4009	mg/L	0.00461	0.4009	mg/L	0.00461	1.15%
V 292.402†	142431.4	0.6281	mg/L	0.00039	0.6281	mg/L	0.00039	0.06%
Zn 213.857†	152060.6	1.840	mg/L	0.0018	1.840	mg/L	0.0018	0.10%

Matrix Recovery Check: BF60914-MS1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	33.29	29.11	0.031	mg/L	83.3
Li 670.784	0.6481	0.5841	0.001	mg/L	87.2
Na 589.592	30.88	26.62	0.023	mg/L	83.0
Ag 328.068	0.4750	0.3988	0.000	mg/L	69.5
Al 237.313	91.73	93.63	0.108	mg/L	175.9
As 188.979	0.5586	0.4134	0.001	mg/L	71.0
B 182.528	0.5357	0.4081	0.000	mg/L	74.5
Ba 233.527	1.238	1.047	0.002	mg/L	61.7
Be 313.107	0.0521	0.0425	0.000	mg/L	80.7
Ca 315.886	104.6	74.94	0.661	mg/L	-492.8
Cd 228.802	0.2564	0.2063	0.001	mg/L	79.9
Co 228.616	0.5731	0.4705	0.003	mg/L	79.5
Cr 267.716	0.7025	0.5932	0.001	mg/L	78.1
Cu 324.752	1.511	1.603	0.001	mg/L	118.4
Fe 234.349	145.9	153.0	1.200	mg/L	384.2
Fe 238.204	136.5	142.2	1.207	mg/L	329.7
Mg 279.077	37.04	35.38	0.020	mg/L	66.9
Mn 257.610	3.142	3.134	0.003	mg/L	98.3
Mo 202.031	0.5181	0.4160	0.003	mg/L	79.6
Ni 231.604	0.6835	0.5615	0.001	mg/L	75.6
P 214.914	12.29	10.67	0.070	mg/L	67.6
Pb 220.353	2.163	1.643	0.010	mg/L	-4.1
Sb 206.836	0.5012	0.2310	0.001	mg/L	46.0
Se 196.026	0.9945	0.7470	0.008	mg/L	75.2
Sn 189.927	0.5951	0.5435	0.004	mg/L	89.7
Ti 337.279	3.944	3.979	0.002	mg/L	107.2
Tl 190.801	0.5272	0.4009	0.005	mg/L	74.7
V 292.402	0.7291	0.6281	0.000	mg/L	79.8
Zn 213.857	2.126	1.840	0.002	mg/L	42.9

Sequence No.: 49
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/9/2006 6:37:38 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	42219.0	45501.2	24.70	mg/L	24.70	mg/L	18:39:13
1	Li 670.784†	16285.2	17629.6	0.5013	mg/L	0.5013	mg/L	18:39:13
1	Na 589.592	198860.5	196614.7	23.95	mg/L	23.95	mg/L	18:39:13
1	Y 371.029	2838664.0	2838664.0	0.917	mg/L			18:39:27

1	Ag 328.068†	60133.2	67568.9	0.2545 mg/L	0.2545 mg/L	18:39:33
1	Al 237.313†	18544.4	20433.9	2.496 mg/L	2.496 mg/L	18:39:33
1	As 188.979†	319.8	340.4	0.4596 mg/L	0.4596 mg/L	18:39:53
1	B 182.528†	203.5	227.8	0.4609 mg/L	0.4609 mg/L	18:39:53
1	Ba 233.527†	51331.4	56151.4	0.5001 mg/L	0.5001 mg/L	18:39:33
1	Be 313.107†	204315.7	222734.5	0.0495 mg/L	0.0495 mg/L	18:39:33
1	Ca 315.886†	689155.9	749259.7	4.931 mg/L	4.931 mg/L	18:39:27
1	Cd 228.802†	9793.4	10539.7	0.2487 mg/L	0.2487 mg/L	18:39:53
1	Co 228.616†	18185.7	20015.9	0.4983 mg/L	0.4983 mg/L	18:39:33
1	Cr 267.716†	69072.7	73417.2	0.4960 mg/L	0.4960 mg/L	18:39:33
1	Cu 324.752†	115461.6	123213.5	0.5092 mg/L	0.5092 mg/L	18:39:33
1	Fe 234.349†	119715.0	129227.2	2.497 mg/L	2.497 mg/L	18:39:33
1	Fe 238.204†	267756.6	291187.0	2.511 mg/L	2.511 mg/L	18:39:33
1	Mg 279.077†	111380.2	120801.3	4.951 mg/L	4.951 mg/L	18:39:33
1	Mn 257.610†	409552.7	445229.9	0.5004 mg/L	0.5004 mg/L	18:39:27
1	Mo 202.031†	6684.8	7276.7	0.4969 mg/L	0.4969 mg/L	18:39:53
1	Ni 231.604†	14516.2	15797.5	0.4861 mg/L	0.4861 mg/L	18:39:33
1	P 214.914†	6442.2	6979.9	4.900 mg/L	4.900 mg/L	18:39:53
1	Pb 220.353†	3797.7	4302.1	0.4972 mg/L	0.4972 mg/L	18:39:53
1	Sb 206.836†	965.1	1045.1	0.4903 mg/L	0.4903 mg/L	18:39:53
1	Se 196.026†	749.6	828.5	0.9625 mg/L	0.9625 mg/L	18:39:53
1	Sn 189.927†	1788.8	1847.2	0.4791 mg/L	0.4791 mg/L	18:39:53
1	Sr 407.771†	971247.9	1053079.7	0.0502 mg/L	0.0502 mg/L	18:39:27
1	Ti 337.279†	331861.4	364065.4	0.4980 mg/L	0.4980 mg/L	18:39:33
1	Tl 190.801†	581.2	638.7	0.4975 mg/L	0.4975 mg/L	18:39:53
1	V 292.402†	98405.3	109210.4	0.5027 mg/L	0.5027 mg/L	18:39:33
1	Zn 213.857†	37951.1	40725.1	0.4933 mg/L	0.4933 mg/L	18:39:33
2	K 766.490†	42413.0	45785.7	24.86 mg/L	24.86 mg/L	18:39:18
2	Li 670.784†	16485.1	17876.0	0.5083 mg/L	0.5083 mg/L	18:39:18
2	Na 589.592	198330.2	196084.4	23.89 mg/L	23.89 mg/L	18:39:18
2	Y 371.029	2834185.6	2834185.6	0.916 mg/L		18:39:59
2	Ag 328.068†	60243.2	67792.7	0.2554 mg/L	0.2554 mg/L	18:40:05
2	Al 237.313†	18649.0	20580.0	2.514 mg/L	2.514 mg/L	18:40:05
2	As 188.979†	324.6	346.2	0.4675 mg/L	0.4675 mg/L	18:40:25
2	B 182.528†	206.1	231.0	0.4673 mg/L	0.4673 mg/L	18:40:25
2	Ba 233.527†	51589.6	56521.8	0.5034 mg/L	0.5034 mg/L	18:40:05
2	Be 313.107†	204917.8	223744.0	0.0498 mg/L	0.0498 mg/L	18:40:05
2	Ca 315.886†	686985.0	748076.4	4.923 mg/L	4.923 mg/L	18:39:59
2	Cd 228.802†	9789.3	10552.2	0.2490 mg/L	0.2490 mg/L	18:40:25
2	Co 228.616†	18288.1	20159.1	0.5019 mg/L	0.5019 mg/L	18:40:05
2	Cr 267.716†	69200.5	73675.7	0.4977 mg/L	0.4977 mg/L	18:40:05
2	Cu 324.752†	115259.0	123191.1	0.5091 mg/L	0.5091 mg/L	18:40:05
2	Fe 234.349†	120406.7	130188.8	2.516 mg/L	2.516 mg/L	18:40:05
2	Fe 238.204†	269697.3	293767.6	2.533 mg/L	2.533 mg/L	18:40:05
2	Mg 279.077†	111913.5	121575.5	4.983 mg/L	4.983 mg/L	18:40:05
2	Mn 257.610†	408223.4	444483.9	0.4996 mg/L	0.4996 mg/L	18:39:59
2	Mo 202.031†	6711.9	7317.8	0.4997 mg/L	0.4997 mg/L	18:40:25
2	Ni 231.604†	14426.6	15724.7	0.4839 mg/L	0.4839 mg/L	18:40:05
2	P 214.914†	6419.9	6966.6	4.891 mg/L	4.891 mg/L	18:40:25
2	Pb 220.353†	3798.3	4309.3	0.4980 mg/L	0.4980 mg/L	18:40:25
2	Sb 206.836†	963.2	1044.6	0.4900 mg/L	0.4900 mg/L	18:40:25
2	Se 196.026†	744.6	824.4	0.9577 mg/L	0.9577 mg/L	18:40:25
2	Sn 189.927†	1785.9	1847.1	0.4790 mg/L	0.4790 mg/L	18:40:25
2	Sr 407.771†	967276.3	1050416.0	0.0500 mg/L	0.0500 mg/L	18:39:59
2	Ti 337.279†	332611.0	365455.6	0.4999 mg/L	0.4999 mg/L	18:40:05
2	Tl 190.801†	583.4	642.1	0.5001 mg/L	0.5001 mg/L	18:40:25
2	V 292.402†	98380.3	109352.7	0.5033 mg/L	0.5033 mg/L	18:40:05
2	Zn 213.857†	38168.9	41028.3	0.4971 mg/L	0.4971 mg/L	18:40:05

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2836424.8	0.916	mg/L	0.0010				0.11%
Ag 328.068†	67680.8	0.2550	mg/L	0.00060	0.2550	mg/L	0.00060	0.23%
QC value within limits for Ag 328.068 Recovery = 101.99%								
Al 237.313†	20506.9	2.505	mg/L	0.0126	2.505	mg/L	0.0126	0.50%
QC value within limits for Al 237.313 Recovery = 100.18%								
As 188.979†	343.3	0.4636	mg/L	0.00564	0.4636	mg/L	0.00564	1.22%
QC value within limits for As 188.979 Recovery = 92.71%								
B 182.528†	229.4	0.4641	mg/L	0.00453	0.4641	mg/L	0.00453	0.98%
QC value within limits for B 182.528 Recovery = 92.82%								

Ba 233.527†	56336.6	0.5017 mg/L	0.00234	0.5017 mg/L	0.00234	0.47%
QC value within limits for Ba 233.527 Recovery = 100.35%						
Be 313.107†	223239.2	0.0496 mg/L	0.00016	0.0496 mg/L	0.00016	0.32%
QC value within limits for Be 313.107 Recovery = 99.30%						
Ca 315.886†	748668.0	4.927 mg/L	0.0055	4.927 mg/L	0.0055	0.11%
QC value within limits for Ca 315.886 Recovery = 98.54%						
Cd 228.802†	10545.9	0.2488 mg/L	0.00019	0.2488 mg/L	0.00019	0.08%
QC value within limits for Cd 228.802 Recovery = 99.54%						
Co 228.616†	20087.5	0.5001 mg/L	0.00254	0.5001 mg/L	0.00254	0.51%
QC value within limits for Co 228.616 Recovery = 100.01%						
Cr 267.716†	73546.5	0.4968 mg/L	0.00124	0.4968 mg/L	0.00124	0.25%
QC value within limits for Cr 267.716 Recovery = 99.37%						
Cu 324.752†	123202.3	0.5092 mg/L	0.00006	0.5092 mg/L	0.00006	0.01%
QC value within limits for Cu 324.752 Recovery = 101.84%						
Fe 234.349†	129708.0	2.507 mg/L	0.0132	2.507 mg/L	0.0132	0.53%
QC value within limits for Fe 234.349 Recovery = 100.26%						
Fe 238.204†	292477.3	2.522 mg/L	0.0158	2.522 mg/L	0.0158	0.63%
QC value within limits for Fe 238.204 Recovery = 100.89%						
K 766.490†	45643.4	24.78 mg/L	0.109	24.78 mg/L	0.109	0.44%
QC value within limits for K 766.490 Recovery = 99.13%						
Li 670.784†	17752.8	0.5048 mg/L	0.00500	0.5048 mg/L	0.00500	0.99%
QC value within limits for Li 670.784 Recovery = 100.96%						
Mg 279.077†	121188.4	4.967 mg/L	0.0225	4.967 mg/L	0.0225	0.45%
QC value within limits for Mg 279.077 Recovery = 99.35%						
Mn 257.610†	444856.9	0.5000 mg/L	0.00060	0.5000 mg/L	0.00060	0.12%
QC value within limits for Mn 257.610 Recovery = 100.00%						
Mo 202.031†	7297.2	0.4983 mg/L	0.00199	0.4983 mg/L	0.00199	0.40%
QC value within limits for Mo 202.031 Recovery = 99.66%						
Na 589.592	196349.5	23.92 mg/L	0.046	23.92 mg/L	0.046	0.19%
QC value within limits for Na 589.592 Recovery = 95.67%						
Ni 231.604†	15761.1	0.4850 mg/L	0.00159	0.4850 mg/L	0.00159	0.33%
QC value within limits for Ni 231.604 Recovery = 97.00%						
P 214.914†	6973.2	4.895 mg/L	0.0066	4.895 mg/L	0.0066	0.13%
QC value within limits for P 214.914 Recovery = 97.91%						
Pb 220.353†	4305.7	0.4976 mg/L	0.00060	0.4976 mg/L	0.00060	0.12%
QC value within limits for Pb 220.353 Recovery = 99.52%						
Sb 206.836†	1044.9	0.4901 mg/L	0.00019	0.4901 mg/L	0.00019	0.04%
QC value within limits for Sb 206.836 Recovery = 98.03%						
Se 196.026†	826.4	0.9601 mg/L	0.00338	0.9601 mg/L	0.00338	0.35%
QC value within limits for Se 196.026 Recovery = 96.01%						
Sn 189.927†	1847.1	0.4790 mg/L	0.00001	0.4790 mg/L	0.00001	0.00%
QC value within limits for Sn 189.927 Recovery = 95.81%						
Sr 407.771†	1051747.9	0.0501 mg/L	0.00009	0.0501 mg/L	0.00009	0.18%
QC value within limits for Sr 407.771 Recovery = 100.19%						
Ti 337.279†	364760.5	0.4989 mg/L	0.00135	0.4989 mg/L	0.00135	0.27%
QC value within limits for Ti 337.279 Recovery = 99.79%						
Tl 190.801†	640.4	0.4988 mg/L	0.00181	0.4988 mg/L	0.00181	0.36%
QC value within limits for Tl 190.801 Recovery = 99.76%						
V 292.402†	109281.5	0.5030 mg/L	0.00049	0.5030 mg/L	0.00049	0.10%
QC value within limits for V 292.402 Recovery = 100.60%						
Zn 213.857†	40876.7	0.4952 mg/L	0.00263	0.4952 mg/L	0.00263	0.53%
QC value within limits for Zn 213.857 Recovery = 99.04%						

All analyte(s) passed QC.

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Sequence No.: 50
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/9/2006 6:42:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	601.0	113.2	0.0638	mg/L	0.0638	mg/L	18:43:40
1	Li 670.784†	177.1	63.6	-0.0027	mg/L	-0.0027	mg/L	18:43:40
1	Na 589.592	2411.0	165.2	-0.2372	mg/L	-0.2372	mg/L	18:43:40
1	Y 371.029	2895910.1	2895910.1	0.936	mg/L			18:43:54
1	Ag 328.068†	-2169.1	-310.9	-0.0018	mg/L	-0.0018	mg/L	18:43:59
1	Al 237.313†	-148.5	56.7	0.0055	mg/L	0.0055	mg/L	18:44:19
1	As 188.979†	9.1	1.5	-0.0021	mg/L	-0.0021	mg/L	18:44:19

1	B 182.528†	-3.2	2.5	0.0017 mg/L	0.0017 mg/L	18:44:19
1	Ba 233.527†	-166.7	8.0	-0.0016 mg/L	-0.0016 mg/L	18:44:19
1	Be 313.107†	-8.1	-34.1	-0.0001 mg/L	-0.0001 mg/L	18:43:59
1	Ca 315.886†	2578.6	647.5	-0.0097 mg/L	-0.0097 mg/L	18:43:59
1	Cd 228.802†	120.5	-9.0	-0.0013 mg/L	-0.0013 mg/L	18:44:19
1	Co 228.616†	-194.1	-18.9	-0.0027 mg/L	-0.0027 mg/L	18:44:19
1	Cr 267.716†	1783.7	15.3	-0.0017 mg/L	-0.0017 mg/L	18:43:59
1	Cu 324.752†	2429.6	-74.6	-0.0025 mg/L	-0.0025 mg/L	18:43:59
1	Fe 234.349†	1341.6	139.0	-0.0064 mg/L	-0.0064 mg/L	18:44:19
1	Fe 238.204†	1094.0	428.5	-0.0087 mg/L	-0.0087 mg/L	18:44:19
1	Mg 279.077†	645.9	56.7	-0.0245 mg/L	-0.0245 mg/L	18:43:59
1	Mn 257.610†	1367.9	167.5	-0.0033 mg/L	-0.0033 mg/L	18:43:59
1	Mo 202.031†	25.8	16.0	-0.0004 mg/L	-0.0004 mg/L	18:44:19
1	Ni 231.604†	22.5	-5.1	-0.0044 mg/L	-0.0044 mg/L	18:44:19
1	P 214.914†	56.5	16.4	0.0109 mg/L	0.0109 mg/L	18:44:19
1	Pb 220.353†	-132.2	20.3	-0.0007 mg/L	-0.0007 mg/L	18:44:19
1	Sb 206.836†	10.3	3.8	-0.0002 mg/L	-0.0002 mg/L	18:44:19
1	Se 196.026†	-3.4	7.6	-0.0015 mg/L	-0.0015 mg/L	18:44:19
1	Sn 189.927†	56.9	-42.3	-0.0130 mg/L	-0.0130 mg/L	18:44:19
1	Sr 407.771†	5714.7	261.8	-0.0003 mg/L	-0.0003 mg/L	18:43:54
1	Ti 337.279†	-1888.2	227.9	0.0001 mg/L	0.0001 mg/L	18:43:59
1	Tl 190.801†	5.6	11.0	0.0049 mg/L	0.0049 mg/L	18:44:19
1	V 292.402†	-1762.1	38.6	-0.0004 mg/L	-0.0004 mg/L	18:43:59
1	Zn 213.857†	647.9	40.5	-0.0010 mg/L	-0.0010 mg/L	18:44:19
2	K 766.490†	665.8	185.4	0.1030 mg/L	0.1030 mg/L	18:43:46
2	Li 670.784†	171.3	58.2	-0.0029 mg/L	-0.0029 mg/L	18:43:46
2	Na 589.592	2378.1	132.3	-0.2412 mg/L	-0.2412 mg/L	18:43:46
2	Y 371.029	2884217.7	2884217.7	0.932 mg/L		18:44:25
2	Ag 328.068†	-2158.5	-308.9	-0.0018 mg/L	-0.0018 mg/L	18:44:30
2	Al 237.313†	-111.0	96.3	0.0103 mg/L	0.0103 mg/L	18:44:51
2	As 188.979†	7.1	-0.6	-0.0050 mg/L	-0.0050 mg/L	18:44:51
2	B 182.528†	-1.2	4.6	0.0061 mg/L	0.0061 mg/L	18:44:51
2	Ba 233.527†	-181.8	-8.9	-0.0018 mg/L	-0.0018 mg/L	18:44:51
2	Be 313.107†	83.7	64.4	0.0000 mg/L	0.0000 mg/L	18:44:30
2	Ca 315.886†	2793.2	889.0	-0.0081 mg/L	-0.0081 mg/L	18:44:30
2	Cd 228.802†	119.2	-9.8	-0.0013 mg/L	-0.0013 mg/L	18:44:51
2	Co 228.616†	-202.0	-28.2	-0.0030 mg/L	-0.0030 mg/L	18:44:51
2	Cr 267.716†	1823.7	66.0	-0.0014 mg/L	-0.0014 mg/L	18:44:30
2	Cu 324.752†	2431.7	-61.8	-0.0025 mg/L	-0.0025 mg/L	18:44:30
2	Fe 234.349†	1311.9	112.9	-0.0069 mg/L	-0.0069 mg/L	18:44:51
2	Fe 238.204†	1086.2	424.8	-0.0087 mg/L	-0.0087 mg/L	18:44:51
2	Mg 279.077†	700.8	118.5	-0.0220 mg/L	-0.0220 mg/L	18:44:30
2	Mn 257.610†	1319.5	121.6	-0.0033 mg/L	-0.0033 mg/L	18:44:30
2	Mo 202.031†	30.1	20.7	-0.0001 mg/L	-0.0001 mg/L	18:44:51
2	Ni 231.604†	23.3	-4.1	-0.0043 mg/L	-0.0043 mg/L	18:44:51
2	P 214.914†	63.5	24.2	0.0164 mg/L	0.0164 mg/L	18:44:51
2	Pb 220.353†	-143.6	7.5	-0.0021 mg/L	-0.0021 mg/L	18:44:51
2	Sb 206.836†	19.7	13.9	0.0046 mg/L	0.0046 mg/L	18:44:51
2	Se 196.026†	-11.3	-0.8	-0.0114 mg/L	-0.0114 mg/L	18:44:51
2	Sn 189.927†	56.1	-42.9	-0.0131 mg/L	-0.0131 mg/L	18:44:51
2	Sr 407.771†	5763.7	339.2	-0.0003 mg/L	-0.0003 mg/L	18:44:25
2	Ti 337.279†	-1901.7	205.2	0.0001 mg/L	0.0001 mg/L	18:44:30
2	Tl 190.801†	-11.9	-7.7	-0.0097 mg/L	-0.0097 mg/L	18:44:51
2	V 292.402†	-1719.0	77.2	-0.0002 mg/L	-0.0002 mg/L	18:44:30
2	Zn 213.857†	663.9	60.4	-0.0008 mg/L	-0.0008 mg/L	18:44:51

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2890063.9	0.934	mg/L	0.0027				0.29%
Ag 328.068†	-309.9	-0.0018	mg/L	0.00001	-0.0018	mg/L	0.00001	0.31%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	76.5	0.0079	mg/L	0.00343	0.0079	mg/L	0.00343	43.45%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	0.5	-0.0035	mg/L	0.00203	-0.0035	mg/L	0.00203	57.32%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	3.5	0.0039	mg/L	0.00311	0.0039	mg/L	0.00311	79.48%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	-0.5	-0.0017	mg/L	0.00011	-0.0017	mg/L	0.00011	6.32%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	15.2	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	32.17%

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   QC value within limits for Be 313.107  Recovery = Not calculated
Ca 315.886†          768.3     -0.0089 mg/L       0.00113     -0.0089 mg/L       0.00113  12.69%
   QC value within limits for Ca 315.886  Recovery = Not calculated
Cd 228.802†           -9.4     -0.0013 mg/L       0.00000     -0.0013 mg/L       0.00000   0.27%
   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†          -23.6     -0.0029 mg/L       0.00017     -0.0029 mg/L       0.00017   5.77%
   QC value less than the lower limit for Co 228.616  Recovery = Not calculated
Cr 267.716†           40.7     -0.0015 mg/L       0.00024     -0.0015 mg/L       0.00024  15.76%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†          -68.2     -0.0025 mg/L       0.00004     -0.0025 mg/L       0.00004   1.51%
   QC value less than the lower limit for Cu 324.752  Recovery = Not calculated
Fe 234.349†          126.0     -0.0067 mg/L       0.00036     -0.0067 mg/L       0.00036   5.39%
   QC value within limits for Fe 234.349  Recovery = Not calculated
Fe 238.204†          426.7     -0.0087 mg/L       0.00002     -0.0087 mg/L       0.00002   0.25%
   QC value within limits for Fe 238.204  Recovery = Not calculated
K 766.490†           149.3      0.0834 mg/L       0.02771      0.0834 mg/L       0.02771  33.24%
   QC value greater than the upper limit for K 766.490  Recovery = Not calculated
Li 670.784†           60.9     -0.0028 mg/L       0.00011     -0.0028 mg/L       0.00011   3.91%
   QC value within limits for Li 670.784  Recovery = Not calculated
Mg 279.077†           87.6     -0.0232 mg/L       0.00180     -0.0232 mg/L       0.00180   7.74%
   QC value less than the lower limit for Mg 279.077  Recovery = Not calculated
Mn 257.610†          144.6     -0.0033 mg/L       0.00004     -0.0033 mg/L       0.00004   1.11%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†           18.4     -0.0002 mg/L       0.00023     -0.0002 mg/L       0.00023  98.83%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592           148.7     -0.2392 mg/L       0.00286     -0.2392 mg/L       0.00286   1.20%
   QC value within limits for Na 589.592  Recovery = Not calculated
Ni 231.604†           -4.6     -0.0043 mg/L       0.00002     -0.0043 mg/L       0.00002   0.53%
   QC value less than the lower limit for Ni 231.604  Recovery = Not calculated
P 214.914†            20.3      0.0137 mg/L       0.00389      0.0137 mg/L       0.00389  28.46%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†           13.9     -0.0014 mg/L       0.00105     -0.0014 mg/L       0.00105  75.42%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†            8.9      0.0022 mg/L       0.00344      0.0022 mg/L       0.00344 156.58%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†            3.4     -0.0065 mg/L       0.00700     -0.0065 mg/L       0.00700 107.81%
   QC value within limits for Se 196.026  Recovery = Not calculated
Sn 189.927†          -42.6     -0.0130 mg/L       0.00011     -0.0130 mg/L       0.00011   0.82%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 407.771†          300.5     -0.0003 mg/L       0.00000     -0.0003 mg/L       0.00000   0.92%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Ti 337.279†          216.5      0.0001 mg/L       0.00002      0.0001 mg/L       0.00002  20.06%
   QC value within limits for Ti 337.279  Recovery = Not calculated
Tl 190.801†            1.6     -0.0024 mg/L       0.01033     -0.0024 mg/L       0.01033 433.02%
   QC value within limits for Tl 190.801  Recovery = Not calculated
V 292.402†            57.9     -0.0003 mg/L       0.00013     -0.0003 mg/L       0.00013  44.08%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†           50.4     -0.0009 mg/L       0.00017     -0.0009 mg/L       0.00017  18.84%
   QC value within limits for Zn 213.857  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

Sequence No.: 51
Sample ID: BF60914-SD1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 49
Date Collected: 6/9/2006 6:46:28 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60914-SD1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	3604.6	3312.7	1.801	mg/L	1.801	mg/L	18:48:03
1	Li 670.784†	1267.6	1225.2	0.0306	mg/L	0.0306	mg/L	18:48:03
1	Na 589.592	12259.4	10013.6	0.9754	mg/L	0.9754	mg/L	18:48:03
1	Y 371.029	2903927.3	2903927.3	0.938	mg/L			18:48:21
1	Ag 328.068†	9597.1	12235.6	0.0468	mg/L	0.0468	mg/L	18:48:26
1	Al 237.313†	148411.4	158387.8	19.28	mg/L	19.28	mg/L	18:48:26
1	As 188.979†	13.4	6.0	0.0033	mg/L	0.0033	mg/L	18:48:46
1	B 182.528†	1.7	7.7	0.0125	mg/L	0.0125	mg/L	18:48:46
1	Ba 233.527†	16663.0	17945.0	0.1587	mg/L	0.1587	mg/L	18:48:26
1	Be 313.107†	4604.0	4881.4	0.0004	mg/L	0.0004	mg/L	18:48:26

1	Ca 315.886†	3082161.3	3282766.7	21.64 mg/L	21.64 mg/L	18:48:21
1	Cd 228.802†	168.2	41.6	0.0002 mg/L	0.0002 mg/L	18:48:46
1	Co 228.616†	505.2	727.0	0.0144 mg/L	0.0144 mg/L	18:48:46
1	Cr 267.716†	8022.7	6659.5	0.0449 mg/L	0.0449 mg/L	18:48:26
1	Cu 324.752†	49399.9	49977.8	0.2114 mg/L	0.2114 mg/L	18:48:26
1	Fe 234.349†	1572058.3	1674157.8	32.53 mg/L	32.53 mg/L	18:48:21
1	Fe 238.204†	3503416.1	3733095.0	32.33 mg/L	32.33 mg/L	18:48:21
1	Mg 279.077†	165384.3	175628.1	7.198 mg/L	7.198 mg/L	18:48:26
1	Mn 257.610†	480409.8	510712.0	0.5745 mg/L	0.5745 mg/L	18:48:21
1	Mo 202.031†	100.1	95.1	0.0050 mg/L	0.0050 mg/L	18:48:46
1	Ni 231.604†	1291.8	1347.7	0.0376 mg/L	0.0376 mg/L	18:48:26
1	P 214.914†	2185.6	2285.4	1.604 mg/L	1.604 mg/L	18:48:46
1	Pb 220.353†	2855.8	3205.2	0.3710 mg/L	0.3710 mg/L	18:48:46
1	Sb 206.836†	13.9	7.7	0.0001 mg/L	0.0001 mg/L	18:48:46
1	Se 196.026†	-8.3	2.4	-0.0076 mg/L	-0.0076 mg/L	18:48:46
1	Sn 189.927†	142.7	49.0	0.0128 mg/L	0.0128 mg/L	18:48:46
1	Sr 407.771†	2116940.1	2250325.7	0.1075 mg/L	0.1075 mg/L	18:48:21
1	Ti 337.279†	497277.1	532228.8	0.7281 mg/L	0.7281 mg/L	18:48:21
1	Tl 190.801†	-3.1	1.7	0.0060 mg/L	0.0060 mg/L	18:48:46
1	V 292.402†	9327.2	11862.4	0.0482 mg/L	0.0482 mg/L	18:48:26
1	Zn 213.857†	28377.1	29591.5	0.3570 mg/L	0.3570 mg/L	18:48:26
2	K 766.490†	3688.8	3401.3	1.849 mg/L	1.849 mg/L	18:48:09
2	Li 670.784†	1291.2	1250.1	0.0313 mg/L	0.0313 mg/L	18:48:09
2	Na 589.592	12481.7	10235.9	1.003 mg/L	1.003 mg/L	18:48:09
2	Y 371.029	2904691.1	2904691.1	0.939 mg/L		18:48:55
2	Ag 328.068†	9667.3	12307.8	0.0471 mg/L	0.0471 mg/L	18:49:01
2	Al 237.313†	148077.9	157990.8	19.23 mg/L	19.23 mg/L	18:49:01
2	As 188.979†	14.0	6.7	0.0042 mg/L	0.0042 mg/L	18:49:21
2	B 182.528†	-0.5	5.4	0.0076 mg/L	0.0076 mg/L	18:49:21
2	Ba 233.527†	16679.0	17957.5	0.1588 mg/L	0.1588 mg/L	18:49:01
2	Be 313.107†	4617.8	4894.8	0.0004 mg/L	0.0004 mg/L	18:49:01
2	Ca 315.886†	3081174.0	3280851.0	21.63 mg/L	21.63 mg/L	18:48:55
2	Cd 228.802†	183.8	58.1	0.0006 mg/L	0.0006 mg/L	18:49:21
2	Co 228.616†	515.8	738.1	0.0147 mg/L	0.0147 mg/L	18:49:21
2	Cr 267.716†	7905.9	6532.7	0.0441 mg/L	0.0441 mg/L	18:49:01
2	Cu 324.752†	49414.0	49979.0	0.2114 mg/L	0.2114 mg/L	18:49:01
2	Fe 234.349†	1573740.8	1675509.8	32.56 mg/L	32.56 mg/L	18:48:55
2	Fe 238.204†	3503161.4	3731841.8	32.32 mg/L	32.32 mg/L	18:48:55
2	Mg 279.077†	164555.7	174698.9	7.160 mg/L	7.160 mg/L	18:49:01
2	Mn 257.610†	480371.5	510536.5	0.5743 mg/L	0.5743 mg/L	18:48:55
2	Mo 202.031†	114.1	110.1	0.0060 mg/L	0.0060 mg/L	18:49:21
2	Ni 231.604†	1286.2	1341.3	0.0374 mg/L	0.0374 mg/L	18:49:01
2	P 214.914†	2178.0	2276.7	1.598 mg/L	1.598 mg/L	18:49:21
2	Pb 220.353†	2851.5	3199.8	0.3703 mg/L	0.3703 mg/L	18:49:21
2	Sb 206.836†	18.9	13.0	0.0027 mg/L	0.0027 mg/L	18:49:21
2	Se 196.026†	-8.8	1.9	-0.0082 mg/L	-0.0082 mg/L	18:49:21
2	Sn 189.927†	148.7	55.3	0.0145 mg/L	0.0145 mg/L	18:49:21
2	Sr 407.771†	2120826.2	2253873.0	0.1077 mg/L	0.1077 mg/L	18:48:55
2	Ti 337.279†	497128.0	531930.7	0.7277 mg/L	0.7277 mg/L	18:48:55
2	Tl 190.801†	-6.6	-2.1	0.0030 mg/L	0.0030 mg/L	18:49:21
2	V 292.402†	9306.4	11837.6	0.0481 mg/L	0.0481 mg/L	18:49:01
2	Zn 213.857†	28319.1	29521.7	0.3561 mg/L	0.3561 mg/L	18:49:01

Mean Data: BF60914-SD1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2904309.2	0.938	mg/L	0.0002				0.02%
Ag 328.068†	12271.7	0.0470	mg/L	0.00019	0.0470	mg/L	0.00019	0.41%
Al 237.313†	158189.3	19.26	mg/L	0.035	19.26	mg/L	0.035	0.18%
As 188.979†	6.3	0.0037	mg/L	0.00067	0.0037	mg/L	0.00067	17.85%
B 182.528†	6.5	0.0101	mg/L	0.00340	0.0101	mg/L	0.00340	33.87%
Ba 233.527†	17951.3	0.1587	mg/L	0.00008	0.1587	mg/L	0.00008	0.05%
Be 313.107†	4888.1	0.0004	mg/L	0.00000	0.0004	mg/L	0.00000	0.54%
Ca 315.886†	3281808.9	21.63	mg/L	0.009	21.63	mg/L	0.009	0.04%
Cd 228.802†	49.8	0.0004	mg/L	0.00027	0.0004	mg/L	0.00027	72.90%
Co 228.616†	732.6	0.0145	mg/L	0.00020	0.0145	mg/L	0.00020	1.36%
Cr 267.716†	6596.1	0.0445	mg/L	0.00061	0.0445	mg/L	0.00061	1.36%
Cu 324.752†	49978.4	0.2114	mg/L	0.00001	0.2114	mg/L	0.00001	0.00%
Fe 234.349†	1674833.8	32.54	mg/L	0.019	32.54	mg/L	0.019	0.06%
Fe 238.204†	3732468.4	32.33	mg/L	0.008	32.33	mg/L	0.008	0.02%
K 766.490†	3357.0	1.825	mg/L	0.0340	1.825	mg/L	0.0340	1.86%

Li 670.784†	1237.7	0.0310 mg/L	0.00050	0.0310 mg/L	0.00050	1.63%
Mg 279.077†	175163.5	7.179 mg/L	0.0271	7.179 mg/L	0.0271	0.38%
Mn 257.610†	510624.3	0.5744 mg/L	0.00014	0.5744 mg/L	0.00014	0.02%
Mo 202.031†	102.6	0.0055 mg/L	0.00072	0.0055 mg/L	0.00072	13.05%
Na 589.592	10124.8	0.9891 mg/L	0.01936	0.9891 mg/L	0.01936	1.96%
Ni 231.604†	1344.5	0.0375 mg/L	0.00014	0.0375 mg/L	0.00014	0.37%
P 214.914†	2281.0	1.601 mg/L	0.0043	1.601 mg/L	0.0043	0.27%
Pb 220.353†	3202.5	0.3706 mg/L	0.00045	0.3706 mg/L	0.00045	0.12%
Sb 206.836†	10.3	0.0014 mg/L	0.00182	0.0014 mg/L	0.00182	133.05%
Se 196.026†	2.1	-0.0079 mg/L	0.00043	-0.0079 mg/L	0.00043	5.45%
Sn 189.927†	52.2	0.0137 mg/L	0.00117	0.0137 mg/L	0.00117	8.57%
Sr 407.771†	2252099.3	0.1076 mg/L	0.00012	0.1076 mg/L	0.00012	0.11%
Ti 337.279†	532079.7	0.7279 mg/L	0.00029	0.7279 mg/L	0.00029	0.04%
Tl 190.801†	-0.2	0.0045 mg/L	0.00210	0.0045 mg/L	0.00210	46.54%
V 292.402†	11850.0	0.0482 mg/L	0.00007	0.0482 mg/L	0.00007	0.14%
Zn 213.857†	29556.6	0.3565 mg/L	0.00060	0.3565 mg/L	0.00060	0.17%

Dilution Check: BF60914-SD1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	1.658	1.825	0.034	mg/L	10.1
Li 670.784	0.0296	0.0310	0.001	mg/L	4.5
Na 589.592	1.175	0.9891	0.019	mg/L	15.8
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.0450	0.0470	0.000	mg/L	4.4
Al 237.313	17.85	19.26	0.035	mg/L	7.9
As 188.979	0.0117	0.0037	0.001	mg/L	68.1
B 182.528	0.0071	0.0101	0.003	mg/L	40.7
Ba 233.527	0.1476	0.1587	0.000	mg/L	7.5
Be 313.107	0.0004	0.0004	0.000	mg/L	3.7
Ca 315.886	19.92	21.63	0.009	mg/L	8.6
Cd 228.802	0.0013	0.0004	0.000	mg/L	70.7
Co 228.616	0.0146	0.0145	0.000	mg/L	0.6
Cr 267.716	0.0405	0.0445	0.001	mg/L	9.9
Cu 324.752	0.2022	0.2114	0.000	mg/L	4.5
Fe 234.349	28.68	32.54	0.019	mg/L	13.5
Fe 238.204	26.80	32.33	0.008	mg/L	20.6
Mg 279.077	6.408	7.179	0.027	mg/L	12.0
Mn 257.610	0.5285	0.5744	0.000	mg/L	8.7
Mo 202.031	0.0036	0.0055	0.001	mg/L	53.2
Ni 231.604	0.0367	0.0375	0.000	mg/L	2.2
P 214.914	1.458	1.601	0.004	mg/L	9.8
Pb 220.353	0.3327	0.3706	0.000	mg/L	11.4
Sb 206.836	0.0002	0.0014	0.002	mg/L	455.3
Se 196.026	-0.0011	-0.0079	0.000	mg/L	-622.2
Sn 189.927	0.0190	0.0137	0.001	mg/L	28.1
Sr 407.771		0.1076	0.000	mg/L	Not calculated
Ti 337.279	0.6887	0.7279	0.000	mg/L	5.7
Tl 190.801	0.0054	0.0045	0.002	mg/L	17.2
V 292.402	0.0458	0.0482	0.000	mg/L	5.2
Zn 213.857	0.3252	0.3565	0.001	mg/L	9.6

Sequence No.: 52
Sample ID: BF60914-PDS1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 50
Date Collected: 6/9/2006 6:50:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60914-PDS1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	55802.4	58280.7	31.64	mg/L	31.64	mg/L	18:52:34
1	Li 670.784†	20398.9	21372.6	0.6087	mg/L	0.6087	mg/L	18:52:34
1	Na 589.592	235477.7	233231.9	28.46	mg/L	28.46	mg/L	18:52:34
1	Y 371.029	2936654.9	2936654.9	0.949	mg/L			18:53:00
1	Ag 328.068†	109046.2	116930.3	0.4463	mg/L	0.4463	mg/L	18:53:00
1	Al 237.313†	709337.7	747781.1	91.07	mg/L	91.07	mg/L	18:53:00
1	As 188.979†	339.1	349.1	0.4681	mg/L	0.4681	mg/L	18:53:20
1	B 182.528†	203.2	220.1	0.4451	mg/L	0.4451	mg/L	18:53:20

1	Ba 233.527†	123548.5	130393.0	1.163 mg/L	1.163 mg/L	18:53:00
1	Be 313.107†	211637.0	223017.3	0.0468 mg/L	0.0468 mg/L	18:53:00
1	Ca 315.886†	14874930.1	15674469.1	103.4 mg/L	103.4 mg/L	18:52:51
1	Cd 228.802†	9255.3	9616.4	0.2278 mg/L	0.2278 mg/L	18:53:20
1	Co 228.616†	19402.6	20636.8	0.5067 mg/L	0.5067 mg/L	18:53:20
1	Cr 267.716†	90761.6	93762.1	0.6408 mg/L	0.6408 mg/L	18:53:00
1	Cu 324.752†	325382.6	340247.1	1.437 mg/L	1.437 mg/L	18:53:00
1	Fe 234.349†	7066769.0	7446320.1	144.7 mg/L	144.7 mg/L	18:52:51
1	Fe 238.204†	14794098.4	15590648.8	135.1 mg/L	135.1 mg/L	18:52:51
1	Mg 279.077†	827865.5	871847.7	35.85 mg/L	35.85 mg/L	18:53:00
1	Mn 257.610†	2575289.9	2712784.4	3.066 mg/L	3.066 mg/L	18:53:00
1	Mo 202.031†	6542.4	6883.4	0.4700 mg/L	0.4700 mg/L	18:53:20
1	Ni 231.604†	18739.4	19720.2	0.6078 mg/L	0.6078 mg/L	18:53:20
1	P 214.914†	15687.4	16488.9	11.58 mg/L	11.58 mg/L	18:53:20
1	Pb 220.353†	16776.2	17841.9	2.078 mg/L	2.078 mg/L	18:53:20
1	Sb 206.836†	894.0	935.0	0.4316 mg/L	0.4316 mg/L	18:53:20
1	Se 196.026†	678.6	726.4	0.8426 mg/L	0.8426 mg/L	18:53:20
1	Sn 189.927†	2126.2	2137.6	0.5638 mg/L	0.5638 mg/L	18:53:20
1	Sr 407.771†	Saturated2	Saturated2			18:53:20
Saturated in preshot (code 2)						
1	Ti 337.279†	2667657.5	2813670.1	3.850 mg/L	3.850 mg/L	18:53:00
1	Tl 190.801†	497.9	529.8	0.4498 mg/L	0.4498 mg/L	18:53:20
1	V 292.402†	141564.8	151115.9	0.6697 mg/L	0.6697 mg/L	18:53:00
1	Zn 213.857†	158830.3	166738.1	2.020 mg/L	2.020 mg/L	18:53:00
2	K 766.490†	55219.6	57123.2	31.01 mg/L	31.01 mg/L	18:52:40
2	Li 670.784†	20366.3	21137.9	0.6019 mg/L	0.6019 mg/L	18:52:40
2	Na 589.592	234521.8	232276.0	28.34 mg/L	28.34 mg/L	18:52:40
2	Y 371.029	2964327.4	2964327.4	0.958 mg/L		18:53:37
2	Ag 328.068†	110569.7	117448.0	0.4481 mg/L	0.4481 mg/L	18:53:37
2	Al 237.313†	716011.5	747770.2	91.08 mg/L	91.08 mg/L	18:53:37
2	As 188.979†	342.5	349.3	0.4684 mg/L	0.4684 mg/L	18:53:57
2	B 182.528†	209.0	224.1	0.4534 mg/L	0.4534 mg/L	18:53:57
2	Ba 233.527†	124577.7	130252.0	1.162 mg/L	1.162 mg/L	18:53:37
2	Be 313.107†	213931.6	223330.8	0.0468 mg/L	0.0468 mg/L	18:53:37
2	Ca 315.886†	14728130.2	15374858.1	101.4 mg/L	101.4 mg/L	18:53:29
2	Cd 228.802†	9247.4	9517.0	0.2254 mg/L	0.2254 mg/L	18:53:57
2	Co 228.616†	19302.7	20341.6	0.4993 mg/L	0.4993 mg/L	18:53:57
2	Cr 267.716†	91411.3	93547.4	0.6392 mg/L	0.6392 mg/L	18:53:37
2	Cu 324.752†	329542.5	341389.1	1.441 mg/L	1.441 mg/L	18:53:37
2	Fe 234.349†	6986857.3	7293363.0	141.7 mg/L	141.7 mg/L	18:53:29
2	Fe 238.204†	14639874.7	15284082.2	132.4 mg/L	132.4 mg/L	18:53:29
2	Mg 279.077†	835127.4	871284.7	35.83 mg/L	35.83 mg/L	18:53:37
2	Mn 257.610†	2600302.2	2713562.1	3.067 mg/L	3.067 mg/L	18:53:37
2	Mo 202.031†	6504.4	6779.4	0.4628 mg/L	0.4628 mg/L	18:53:57
2	Ni 231.604†	18768.1	19565.8	0.6030 mg/L	0.6030 mg/L	18:53:57
2	P 214.914†	15556.1	16197.5	11.37 mg/L	11.37 mg/L	18:53:57
2	Pb 220.353†	16674.7	17570.9	2.047 mg/L	2.047 mg/L	18:53:57
2	Sb 206.836†	886.9	918.8	0.4239 mg/L	0.4239 mg/L	18:53:57
2	Se 196.026†	664.0	704.4	0.8168 mg/L	0.8168 mg/L	18:53:57
2	Sn 189.927†	2097.2	2086.5	0.5503 mg/L	0.5503 mg/L	18:53:57
2	Sr 407.771†	Saturated2	Saturated2			18:53:57
Saturated in preshot (code 2)						
2	Ti 337.279†	2693259.9	2814155.2	3.851 mg/L	3.851 mg/L	18:53:37
2	Tl 190.801†	487.1	513.6	0.4372 mg/L	0.4372 mg/L	18:53:57
2	V 292.402†	142799.6	151012.3	0.6695 mg/L	0.6695 mg/L	18:53:37
2	Zn 213.857†	160271.0	166679.6	2.020 mg/L	2.020 mg/L	18:53:37

Mean Data: BF60914-PDS1

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2950491.1	0.953	mg/L	0.0063				0.66%
Ag 328.068†	117189.2	0.4472	mg/L	0.00129	0.4472	mg/L	0.00129	0.29%
Al 237.313†	747775.6	91.08	mg/L	0.008	91.08	mg/L	0.008	0.01%
As 188.979†	349.2	0.4683	mg/L	0.00024	0.4683	mg/L	0.00024	0.05%
B 182.528†	222.1	0.4492	mg/L	0.00587	0.4492	mg/L	0.00587	1.31%
Ba 233.527†	130322.5	1.163	mg/L	0.0009	1.163	mg/L	0.0009	0.08%
Be 313.107†	223174.1	0.0468	mg/L	0.00004	0.0468	mg/L	0.00004	0.08%
Ca 315.886†	15524663.6	102.4	mg/L	1.40	102.4	mg/L	1.40	1.36%
Cd 228.802†	9566.7	0.2266	mg/L	0.00171	0.2266	mg/L	0.00171	0.75%
Co 228.616†	20489.2	0.5030	mg/L	0.00523	0.5030	mg/L	0.00523	1.04%
Cr 267.716†	93654.7	0.6400	mg/L	0.00116	0.6400	mg/L	0.00116	0.18%

Cu 324.752†	340818.1	1.439 mg/L	0.0030	1.439 mg/L	0.0030	0.21%
Fe 234.349†	7369841.5	143.2 mg/L	2.10	143.2 mg/L	2.10	1.47%
Fe 238.204†	15437365.5	133.7 mg/L	1.88	133.7 mg/L	1.88	1.40%
K 766.490†	57702.0	31.33 mg/L	0.444	31.33 mg/L	0.444	1.42%
Li 670.784†	21255.2	0.6053 mg/L	0.00476	0.6053 mg/L	0.00476	0.79%
Mg 279.077†	871566.2	35.84 mg/L	0.016	35.84 mg/L	0.016	0.04%
Mn 257.610†	2713173.2	3.067 mg/L	0.0006	3.067 mg/L	0.0006	0.02%
Mo 202.031†	6831.4	0.4664 mg/L	0.00504	0.4664 mg/L	0.00504	1.08%
Na 589.592	232753.9	28.40 mg/L	0.083	28.40 mg/L	0.083	0.29%
Ni 231.604†	19643.0	0.6054 mg/L	0.00339	0.6054 mg/L	0.00339	0.56%
P 214.914†	16343.2	11.47 mg/L	0.145	11.47 mg/L	0.145	1.26%
Pb 220.353†	17706.4	2.062 mg/L	0.0221	2.062 mg/L	0.0221	1.07%
Sb 206.836†	926.9	0.4278 mg/L	0.00547	0.4278 mg/L	0.00547	1.28%
Se 196.026†	715.4	0.8297 mg/L	0.01821	0.8297 mg/L	0.01821	2.19%
Sn 189.927†	2112.0	0.5571 mg/L	0.00949	0.5571 mg/L	0.00949	1.70%
Sr 407.771†	Saturated2					
Ti 337.279†	2813912.6	3.850 mg/L	0.0005	3.850 mg/L	0.0005	0.01%
Tl 190.801†	521.7	0.4435 mg/L	0.00891	0.4435 mg/L	0.00891	2.01%
V 292.402†	151064.1	0.6696 mg/L	0.00014	0.6696 mg/L	0.00014	0.02%
Zn 213.857†	166708.8	2.020 mg/L	0.0003	2.020 mg/L	0.0003	0.01%

Matrix Recovery Check: BF60914-PDS1

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Recovery (%)
K 766.490	33.29	31.33	0.444	mg/L	92.2
Li 670.784	0.6481	0.6053	0.005	mg/L	91.4
Na 589.592	30.88	28.40	0.083	mg/L	90.1
Ag 328.068	0.4750	0.4472	0.001	mg/L	88.9
Al 237.313	91.73	91.08	0.008	mg/L	74.1
As 188.979	0.5586	0.4683	0.000	mg/L	81.9
B 182.528	0.5357	0.4492	0.006	mg/L	82.7
Ba 233.527	1.238	1.163	0.001	mg/L	85.0
Be 313.107	0.0521	0.0468	0.000	mg/L	89.3
Ca 315.886	104.6	102.4	1.397	mg/L	56.3
Cd 228.802	0.2564	0.2266	0.002	mg/L	88.1
Co 228.616	0.5731	0.5030	0.005	mg/L	86.0
Cr 267.716	0.7025	0.6400	0.001	mg/L	87.5
Cu 324.752	1.511	1.439	0.003	mg/L	85.6
Fe 234.349	145.9	143.2	2.102	mg/L	-6.3
Fe 238.204	136.5	133.7	1.878	mg/L	-10.3
Mg 279.077	37.04	35.84	0.016	mg/L	75.9
Mn 257.610	3.142	3.067	0.001	mg/L	84.9
Mo 202.031	0.5181	0.4664	0.005	mg/L	89.7
Ni 231.604	0.6835	0.6054	0.003	mg/L	84.4
P 214.914	12.29	11.47	0.145	mg/L	83.7
Pb 220.353	2.163	2.062	0.022	mg/L	79.8
Sb 206.836	0.5012	0.4278	0.005	mg/L	85.3
Se 196.026	0.9945	0.8297	0.018	mg/L	83.5
Sn 189.927	0.5951	0.5571	0.009	mg/L	92.4
Ti 337.279	3.944	3.850	0.000	mg/L	81.3
Tl 190.801	0.5272	0.4435	0.009	mg/L	83.3
V 292.402	0.7291	0.6696	0.000	mg/L	88.1
Zn 213.857	2.126	2.020	0.000	mg/L	78.8

Sequence No.: 53
Sample ID: 0606113-12
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 51
Date Collected: 6/9/2006 6:55:37 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606113-12

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	37738.0	38574.8	20.94	mg/L	20.94	mg/L	18:57:12
1	Li 670.784†	3998.3	4017.3	0.1107	mg/L	0.1107	mg/L	18:57:12
1	Na 589.592	42682.1	40436.3	4.721	mg/L	4.721	mg/L	18:57:12
1	Y 371.029	2986820.4	2986820.4	0.965	mg/L			18:57:35
1	Ag 328.068†	-2428.6	-509.2	0.0030	mg/L	0.0030	mg/L	18:57:41
1	Al 237.313†	607911.1	630127.8	76.67	mg/L	76.67	mg/L	18:57:35

1	As 188.979†	37.2	30.3	0.0312 mg/L	0.0312 mg/L	18:58:01
1	B 182.528†	18.3	24.8	0.0473 mg/L	0.0473 mg/L	18:58:01
1	Ba 233.527†	52299.7	54378.6	0.4842 mg/L	0.4842 mg/L	18:57:41
1	Be 313.107†	21546.6	22301.0	-0.0010 mg/L	-0.0010 mg/L	18:57:41
1	Ca 315.886†	1935043.6	2002967.9	13.20 mg/L	13.20 mg/L	18:57:35
1	Cd 228.802†	139.2	6.5	0.0003 mg/L	0.0003 mg/L	18:58:01
1	Co 228.616†	3827.4	4154.5	0.0887 mg/L	0.0887 mg/L	18:58:01
1	Cr 267.716†	28904.3	28059.4	0.1942 mg/L	0.1942 mg/L	18:57:41
1	Cu 324.752†	104197.8	105297.7	0.4640 mg/L	0.4640 mg/L	18:57:41
1	Fe 234.349†	6777408.7	7021399.8	136.5 mg/L	136.5 mg/L	18:57:29
1	Fe 238.204†	14283362.1	14799560.7	128.2 mg/L	128.2 mg/L	18:57:29
1	Mg 279.077†	940077.4	973466.9	40.04 mg/L	40.04 mg/L	18:57:35
1	Mn 257.610†	3330224.3	3449456.5	3.900 mg/L	3.900 mg/L	18:57:35
1	Mo 202.031†	150.3	144.2	0.0084 mg/L	0.0084 mg/L	18:58:01
1	Ni 231.604†	5474.2	5643.2	0.1708 mg/L	0.1708 mg/L	18:57:41
1	P 214.914†	9861.3	10174.3	7.143 mg/L	7.143 mg/L	18:58:01
1	Pb 220.353†	735.7	923.9	0.1126 mg/L	0.1126 mg/L	18:58:01
1	Sb 206.836†	38.1	32.3	0.0035 mg/L	0.0035 mg/L	18:58:01
1	Se 196.026†	-2.2	9.0	0.0001 mg/L	0.0001 mg/L	18:58:01
1	Sn 189.927†	-29.6	-133.8	-0.0249 mg/L	-0.0249 mg/L	18:58:01
1	Sr 407.771†	1277094.7	1317469.4	0.0628 mg/L	0.0628 mg/L	18:57:35
1	Ti 337.279†	4345762.2	4505288.6	6.165 mg/L	6.165 mg/L	18:57:29
1	Tl 190.801†	-39.9	-36.4	0.0226 mg/L	0.0226 mg/L	18:58:01
1	V 292.402†	42810.7	46281.9	0.1841 mg/L	0.1841 mg/L	18:57:41
1	Zn 213.857†	35702.2	36342.4	0.4315 mg/L	0.4315 mg/L	18:57:41
2	K 766.490†	38666.2	39835.1	21.63 mg/L	21.63 mg/L	18:57:17
2	Li 670.784†	4079.2	4132.7	0.1140 mg/L	0.1140 mg/L	18:57:17
2	Na 589.592	43179.9	40934.1	4.783 mg/L	4.783 mg/L	18:57:17
2	Y 371.029	2964727.0	2964727.0	0.958 mg/L		18:58:16
2	Ag 328.068†	-2282.7	-375.6	0.0036 mg/L	0.0036 mg/L	18:58:22
2	Al 237.313†	603651.2	630375.0	76.69 mg/L	76.69 mg/L	18:58:16
2	As 188.979†	40.4	33.9	0.0361 mg/L	0.0361 mg/L	18:58:42
2	B 182.528†	14.2	20.7	0.0390 mg/L	0.0390 mg/L	18:58:42
2	Ba 233.527†	52427.3	54915.7	0.4890 mg/L	0.4890 mg/L	18:58:22
2	Be 313.107†	21501.6	22420.4	-0.0011 mg/L	-0.0011 mg/L	18:58:22
2	Ca 315.886†	1920644.1	2002878.0	13.20 mg/L	13.20 mg/L	18:58:16
2	Cd 228.802†	139.5	7.9	0.0004 mg/L	0.0004 mg/L	18:58:42
2	Co 228.616†	3811.3	4167.2	0.0889 mg/L	0.0889 mg/L	18:58:42
2	Cr 267.716†	28998.7	28381.2	0.1965 mg/L	0.1965 mg/L	18:58:22
2	Cu 324.752†	104139.9	106041.9	0.4676 mg/L	0.4676 mg/L	18:58:22
2	Fe 234.349†	6841084.5	7140205.6	138.8 mg/L	138.8 mg/L	18:58:09
2	Fe 238.204†	14394228.1	15025588.2	130.2 mg/L	130.2 mg/L	18:58:09
2	Mg 279.077†	932402.1	972713.6	40.01 mg/L	40.01 mg/L	18:58:16
2	Mn 257.610†	3301896.8	3445600.3	3.896 mg/L	3.896 mg/L	18:58:16
2	Mo 202.031†	136.9	131.3	0.0075 mg/L	0.0075 mg/L	18:58:42
2	Ni 231.604†	5552.6	5767.3	0.1747 mg/L	0.1747 mg/L	18:58:22
2	P 214.914†	9793.6	10179.7	7.147 mg/L	7.147 mg/L	18:58:42
2	Pb 220.353†	734.8	928.7	0.1131 mg/L	0.1131 mg/L	18:58:42
2	Sb 206.836†	45.8	40.6	0.0074 mg/L	0.0074 mg/L	18:58:42
2	Se 196.026†	1.9	13.2	0.0051 mg/L	0.0051 mg/L	18:58:42
2	Sn 189.927†	-24.0	-128.2	-0.0233 mg/L	-0.0233 mg/L	18:58:42
2	Sr 407.771†	1268639.6	1318504.5	0.0629 mg/L	0.0629 mg/L	18:58:16
2	Ti 337.279†	4365011.8	4558940.6	6.238 mg/L	6.238 mg/L	18:58:09
2	Tl 190.801†	-51.1	-48.3	0.0131 mg/L	0.0131 mg/L	18:58:42
2	V 292.402†	42919.4	46726.0	0.1857 mg/L	0.1857 mg/L	18:58:22
2	Zn 213.857†	35871.1	36794.4	0.4368 mg/L	0.4368 mg/L	18:58:22

Mean Data: 0606113-12

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2975773.7	0.962	mg/L	0.0050				0.52%
Ag 328.068†	-442.4	0.0033	mg/L	0.00042	0.0033	mg/L	0.00042	12.79%
Al 237.313†	630251.4	76.68	mg/L	0.014	76.68	mg/L	0.014	0.02%
As 188.979†	32.1	0.0336	mg/L	0.00347	0.0336	mg/L	0.00347	10.32%
B 182.528†	22.8	0.0431	mg/L	0.00593	0.0431	mg/L	0.00593	13.74%
Ba 233.527†	54647.1	0.4866	mg/L	0.00339	0.4866	mg/L	0.00339	0.70%
Be 313.107†	22360.7	-0.0011	mg/L	0.00003	-0.0011	mg/L	0.00003	2.71%
Ca 315.886†	2002922.9	13.20	mg/L	0.000	13.20	mg/L	0.000	0.00%
Cd 228.802†	7.2	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	4.50%
Co 228.616†	4160.9	0.0888	mg/L	0.00011	0.0888	mg/L	0.00011	0.13%
Cr 267.716†	28220.3	0.1953	mg/L	0.00164	0.1953	mg/L	0.00164	0.84%

Cu 324.752†	105669.8	0.4658	mg/L	0.00252	0.4658	mg/L	0.00252	0.54%
Fe 234.349†	7080802.7	137.6	mg/L	1.63	137.6	mg/L	1.63	1.19%
Fe 238.204†	14912574.4	129.2	mg/L	1.38	129.2	mg/L	1.38	1.07%
K 766.490†	39204.9	21.29	mg/L	0.484	21.29	mg/L	0.484	2.27%
Li 670.784†	4075.0	0.1124	mg/L	0.00234	0.1124	mg/L	0.00234	2.08%
Mg 279.077†	973090.2	40.03	mg/L	0.023	40.03	mg/L	0.023	0.06%
Mn 257.610†	3447528.4	3.898	mg/L	0.0031	3.898	mg/L	0.0031	0.08%
Mo 202.031†	137.8	0.0079	mg/L	0.00062	0.0079	mg/L	0.00062	7.85%
Na 589.592	40685.2	4.752	mg/L	0.0433	4.752	mg/L	0.0433	0.91%
Ni 231.604†	5705.2	0.1728	mg/L	0.00272	0.1728	mg/L	0.00272	1.57%
P 214.914†	10177.0	7.145	mg/L	0.0027	7.145	mg/L	0.0027	0.04%
Pb 220.353†	926.3	0.1129	mg/L	0.00031	0.1129	mg/L	0.00031	0.28%
Sb 206.836†	36.5	0.0055	mg/L	0.00276	0.0055	mg/L	0.00276	50.29%
Se 196.026†	11.1	0.0026	mg/L	0.00353	0.0026	mg/L	0.00353	135.06%
Sn 189.927†	-131.0	-0.0241	mg/L	0.00115	-0.0241	mg/L	0.00115	4.76%
Sr 407.771†	1317986.9	0.0629	mg/L	0.00004	0.0629	mg/L	0.00004	0.06%
Ti 337.279†	4532114.6	6.201	mg/L	0.0519	6.201	mg/L	0.0519	0.84%
Tl 190.801†	-42.3	0.0179	mg/L	0.00676	0.0179	mg/L	0.00676	37.85%
V 292.402†	46503.9	0.1849	mg/L	0.00114	0.1849	mg/L	0.00114	0.61%
Zn 213.857†	36568.4	0.4341	mg/L	0.00376	0.4341	mg/L	0.00376	0.87%

Sequence No.: 54
Sample ID: 0606113-13
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 52
Date Collected: 6/9/2006 7:00:21 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606113-13

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	22995.0	23551.9	12.79	mg/L	12.79	mg/L	19:01:59
1	Li 670.784†	3447.2	3484.3	0.0954	mg/L	0.0954	mg/L	19:01:59
1	Na 589.592	43637.4	41391.6	4.839	mg/L	4.839	mg/L	19:01:59
1	Y 371.029	2955350.2	2955350.2	0.955	mg/L			19:02:22
1	Ag 328.068†	-2877.5	-1006.1	0.0007	mg/L	0.0007	mg/L	19:02:27
1	Al 237.313†	491173.0	514584.4	62.55	mg/L	62.55	mg/L	19:02:22
1	As 188.979†	32.0	25.2	0.0255	mg/L	0.0255	mg/L	19:02:47
1	B 182.528†	13.3	19.8	0.0371	mg/L	0.0371	mg/L	19:02:47
1	Ba 233.527†	39585.6	41641.2	0.3704	mg/L	0.3704	mg/L	19:02:27
1	Be 313.107†	16862.4	17633.3	-0.0007	mg/L	-0.0007	mg/L	19:02:27
1	Ca 315.886†	1465127.6	1532210.9	10.09	mg/L	10.09	mg/L	19:02:22
1	Cd 228.802†	126.6	-5.2	-0.0001	mg/L	-0.0001	mg/L	19:02:47
1	Co 228.616†	3018.3	3349.4	0.0712	mg/L	0.0712	mg/L	19:02:47
1	Cr 267.716†	27499.4	26907.1	0.1858	mg/L	0.1858	mg/L	19:02:27
1	Cu 324.752†	85656.2	87030.2	0.3852	mg/L	0.3852	mg/L	19:02:27
1	Fe 234.349†	6162097.3	6451811.7	125.4	mg/L	125.4	mg/L	19:02:15
1	Fe 238.204†	13064906.7	13681165.0	118.5	mg/L	118.5	mg/L	19:02:15
1	Mg 279.077†	695204.6	727402.5	29.91	mg/L	29.91	mg/L	19:02:22
1	Mn 257.610†	3113336.2	3259071.2	3.684	mg/L	3.684	mg/L	19:02:22
1	Mo 202.031†	138.9	133.9	0.0077	mg/L	0.0077	mg/L	19:02:47
1	Ni 231.604†	4793.5	4990.7	0.1506	mg/L	0.1506	mg/L	19:02:47
1	P 214.914†	8905.3	9281.9	6.516	mg/L	6.516	mg/L	19:02:47
1	Pb 220.353†	578.7	767.6	0.0923	mg/L	0.0923	mg/L	19:02:47
1	Sb 206.836†	32.8	27.2	0.0025	mg/L	0.0025	mg/L	19:02:47
1	Se 196.026†	-2.0	9.2	0.0003	mg/L	0.0003	mg/L	19:02:47
1	Sn 189.927†	-6.3	-109.7	-0.0204	mg/L	-0.0204	mg/L	19:02:47
1	Sr 407.771†	967036.7	1006860.1	0.0479	mg/L	0.0479	mg/L	19:02:22
1	Ti 337.279†	3410055.4	3573343.4	4.889	mg/L	4.889	mg/L	19:02:22
1	Tl 190.801†	-53.0	-50.5	0.0105	mg/L	0.0105	mg/L	19:02:47
1	V 292.402†	31481.1	34889.6	0.1354	mg/L	0.1354	mg/L	19:02:27
1	Zn 213.857†	31663.7	32507.1	0.3852	mg/L	0.3852	mg/L	19:02:27
2	K 766.490†	22734.1	23365.9	12.69	mg/L	12.69	mg/L	19:02:04
2	Li 670.784†	3422.5	3471.6	0.0951	mg/L	0.0951	mg/L	19:02:04
2	Na 589.592	43466.2	41220.4	4.818	mg/L	4.818	mg/L	19:02:04
2	Y 371.029	2944557.1	2944557.1	0.951	mg/L			19:03:02
2	Ag 328.068†	-3009.7	-1156.1	0.0001	mg/L	0.0001	mg/L	19:03:07
2	Al 237.313†	488174.3	513317.9	62.39	mg/L	62.39	mg/L	19:03:02
2	As 188.979†	32.4	25.8	0.0263	mg/L	0.0263	mg/L	19:03:28
2	B 182.528†	11.1	17.5	0.0325	mg/L	0.0325	mg/L	19:03:28
2	Ba 233.527†	39422.9	41622.2	0.3702	mg/L	0.3702	mg/L	19:03:07

2	Be 313.107†	17118.1	17966.8	-0.0006 mg/L	-0.0006 mg/L	19:03:07
2	Ca 315.886†	1459972.9	1532417.0	10.10 mg/L	10.10 mg/L	19:03:02
2	Cd 228.802†	137.7	7.0	0.0002 mg/L	0.0002 mg/L	19:03:28
2	Co 228.616†	3028.2	3371.4	0.0718 mg/L	0.0718 mg/L	19:03:28
2	Cr 267.716†	27370.3	26877.1	0.1857 mg/L	0.1857 mg/L	19:03:07
2	Cu 324.752†	85323.5	87009.3	0.3852 mg/L	0.3852 mg/L	19:03:07
2	Fe 234.349†	6156648.2	6469737.7	125.7 mg/L	125.7 mg/L	19:02:55
2	Fe 238.204†	13058949.6	13725053.7	118.9 mg/L	118.9 mg/L	19:02:55
2	Mg 279.077†	691990.5	726692.9	29.88 mg/L	29.88 mg/L	19:03:02
2	Mn 257.610†	3103609.0	3260798.0	3.686 mg/L	3.686 mg/L	19:03:02
2	Mo 202.031†	137.1	132.6	0.0076 mg/L	0.0076 mg/L	19:03:28
2	Ni 231.604†	4795.5	5011.3	0.1512 mg/L	0.1512 mg/L	19:03:28
2	P 214.914†	8914.8	9326.0	6.547 mg/L	6.547 mg/L	19:03:28
2	Pb 220.353†	607.6	800.2	0.0960 mg/L	0.0960 mg/L	19:03:28
2	Sb 206.836†	38.4	33.2	0.0054 mg/L	0.0054 mg/L	19:03:28
2	Se 196.026†	2.9	14.3	0.0063 mg/L	0.0063 mg/L	19:03:28
2	Sn 189.927†	-2.8	-106.0	-0.0194 mg/L	-0.0194 mg/L	19:03:28
2	Sr 407.771†	965422.9	1008875.9	0.0480 mg/L	0.0480 mg/L	19:03:02
2	Ti 337.279†	3394586.8	3570174.6	4.885 mg/L	4.885 mg/L	19:03:02
2	Tl 190.801†	-55.4	-53.2	0.0084 mg/L	0.0084 mg/L	19:03:28
2	V 292.402†	31444.1	34971.6	0.1357 mg/L	0.1357 mg/L	19:03:07
2	Zn 213.857†	31448.5	32402.4	0.3839 mg/L	0.3839 mg/L	19:03:07

Mean Data: 0606113-13

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2949953.6	0.953	mg/L	0.0025				0.26%
Ag 328.068†	-1081.1	0.0004	mg/L	0.00039	0.0004	mg/L	0.00039	98.88%
Al 237.313†	513951.1	62.47	mg/L	0.111	62.47	mg/L	0.111	0.18%
As 188.979†	25.5	0.0259	mg/L	0.00053	0.0259	mg/L	0.00053	2.03%
B 182.528†	18.7	0.0348	mg/L	0.00326	0.0348	mg/L	0.00326	9.37%
Ba 233.527†	41631.7	0.3703	mg/L	0.00012	0.3703	mg/L	0.00012	0.03%
Be 313.107†	17800.1	-0.0007	mg/L	0.00006	-0.0007	mg/L	0.00006	8.39%
Ca 315.886†	1532313.9	10.09	mg/L	0.001	10.09	mg/L	0.001	0.01%
Cd 228.802†	0.9	0.0001	mg/L	0.00021	0.0001	mg/L	0.00021	296.61%
Co 228.616†	3360.4	0.0715	mg/L	0.00040	0.0715	mg/L	0.00040	0.55%
Cr 267.716†	26892.1	0.1858	mg/L	0.00013	0.1858	mg/L	0.00013	0.07%
Cu 324.752†	87019.8	0.3852	mg/L	0.00002	0.3852	mg/L	0.00002	0.01%
Fe 234.349†	6460774.7	125.6	mg/L	0.25	125.6	mg/L	0.25	0.20%
Fe 238.204†	13703109.4	118.7	mg/L	0.27	118.7	mg/L	0.27	0.23%
K 766.490†	23458.9	12.74	mg/L	0.071	12.74	mg/L	0.071	0.56%
Li 670.784†	3478.0	0.0952	mg/L	0.00026	0.0952	mg/L	0.00026	0.27%
Mg 279.077†	727047.7	29.90	mg/L	0.021	29.90	mg/L	0.021	0.07%
Mn 257.610†	3259934.6	3.685	mg/L	0.0014	3.685	mg/L	0.0014	0.04%
Mo 202.031†	133.3	0.0076	mg/L	0.00007	0.0076	mg/L	0.00007	0.86%
Na 589.592	41306.0	4.828	mg/L	0.0149	4.828	mg/L	0.0149	0.31%
Ni 231.604†	5001.0	0.1509	mg/L	0.00045	0.1509	mg/L	0.00045	0.30%
P 214.914†	9304.0	6.532	mg/L	0.0219	6.532	mg/L	0.0219	0.34%
Pb 220.353†	783.9	0.0941	mg/L	0.00263	0.0941	mg/L	0.00263	2.80%
Sb 206.836†	30.2	0.0039	mg/L	0.00204	0.0039	mg/L	0.00204	51.96%
Se 196.026†	11.7	0.0033	mg/L	0.00422	0.0033	mg/L	0.00422	127.42%
Sn 189.927†	-107.9	-0.0199	mg/L	0.00069	-0.0199	mg/L	0.00069	3.45%
Sr 407.771†	1007868.0	0.0480	mg/L	0.00007	0.0480	mg/L	0.00007	0.14%
Ti 337.279†	3571759.0	4.887	mg/L	0.0031	4.887	mg/L	0.0031	0.06%
Tl 190.801†	-51.8	0.0094	mg/L	0.00149	0.0094	mg/L	0.00149	15.81%
V 292.402†	34930.6	0.1356	mg/L	0.00023	0.1356	mg/L	0.00023	0.17%
Zn 213.857†	32454.7	0.3845	mg/L	0.00093	0.3845	mg/L	0.00093	0.24%

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Sequence No.: 55
Sample ID: 0606113-14
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 53
Date Collected: 6/9/2006 7:05:07 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606113-14

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Units	Sample Conc.	Units	Analysis Time
1	K 766.490†	12410.4	12468.1	6.771	mg/L	6.771	mg/L	19:06:50
1	Li 670.784†	5636.2	5776.9	0.1612	mg/L	0.1612	mg/L	19:06:50

1	Na 589.592	48204.5	45958.7	5.401 mg/L	5.401 mg/L	19:06:50
1	Y 371.029	2955204.2	2955204.2	0.955 mg/L		19:07:21
1	Ag 328.068†	40455.0	44374.9	0.1726 mg/L	0.1726 mg/L	19:07:27
1	Al 237.313†	709755.6	743526.4	90.53 mg/L	90.53 mg/L	19:07:21
1	As 188.979†	44.3	38.2	0.0447 mg/L	0.0447 mg/L	19:07:47
1	B 182.528†	7.7	14.0	0.0252 mg/L	0.0252 mg/L	19:07:47
1	Ba 233.527†	80937.9	84950.5	0.7574 mg/L	0.7574 mg/L	19:07:27
1	Be 313.107†	21046.1	22015.7	0.0023 mg/L	0.0023 mg/L	19:07:27
1	Ca 315.886†	10979052.0	11496004.6	75.82 mg/L	75.82 mg/L	19:07:15
1	Cd 228.802†	291.6	167.6	0.0040 mg/L	0.0040 mg/L	19:07:47
1	Co 228.616†	2712.0	3028.8	0.0669 mg/L	0.0669 mg/L	19:07:47
1	Cr 267.716†	32335.4	31973.2	0.2221 mg/L	0.2221 mg/L	19:07:27
1	Cu 324.752†	181464.3	187372.3	0.8037 mg/L	0.8037 mg/L	19:07:27
1	Fe 234.349†	7273827.3	7616420.0	148.0 mg/L	148.0 mg/L	19:07:15
1	Fe 238.204†	15212907.1	15931392.8	138.0 mg/L	138.0 mg/L	19:07:15
1	Mg 279.077†	772372.0	808254.2	33.22 mg/L	33.22 mg/L	19:07:21
1	Mn 257.610†	2393350.6	2505207.7	2.831 mg/L	2.831 mg/L	19:07:21
1	Mo 202.031†	261.7	262.5	0.0165 mg/L	0.0165 mg/L	19:07:47
1	Ni 231.604†	5805.5	6050.9	0.1835 mg/L	0.1835 mg/L	19:07:27
1	P 214.914†	8900.3	9277.2	6.513 mg/L	6.513 mg/L	19:07:47
1	Pb 220.353†	8670.6	9242.1	1.080 mg/L	1.080 mg/L	19:07:47
1	Sb 206.836†	26.5	20.6	0.0009 mg/L	0.0009 mg/L	19:07:47
1	Se 196.026†	-6.5	4.4	-0.0053 mg/L	-0.0053 mg/L	19:07:47
1	Sn 189.927†	192.7	98.7	0.0329 mg/L	0.0329 mg/L	19:07:47
1	Sr 407.771†	7169821.2	7502946.0	0.3592 mg/L	0.3592 mg/L	19:07:15
1	Ti 337.279†	2195937.9	2302001.9	3.150 mg/L	3.150 mg/L	19:07:21
1	Tl 190.801†	-22.8	-18.9	0.0232 mg/L	0.0232 mg/L	19:07:47
1	V 292.402†	49327.1	53580.9	0.2197 mg/L	0.2197 mg/L	19:07:27
1	Zn 213.857†	104349.6	108631.0	1.312 mg/L	1.312 mg/L	19:07:27
2	K 766.490†	12613.9	12562.8	6.823 mg/L	6.823 mg/L	19:06:56
2	Li 670.784†	5687.2	5777.0	0.1612 mg/L	0.1612 mg/L	19:06:56
2	Na 589.592	48185.7	45939.9	5.399 mg/L	5.399 mg/L	19:06:56
2	Y 371.029	2981931.4	2981931.4	0.963 mg/L		19:08:09
2	Ag 328.068†	40447.2	43987.1	0.1711 mg/L	0.1711 mg/L	19:08:15
2	Al 237.313†	716111.0	743460.2	90.53 mg/L	90.53 mg/L	19:08:09
2	As 188.979†	42.0	35.4	0.0409 mg/L	0.0409 mg/L	19:08:35
2	B 182.528†	12.5	18.9	0.0352 mg/L	0.0352 mg/L	19:08:35
2	Ba 233.527†	81189.9	84452.4	0.7530 mg/L	0.7530 mg/L	19:08:15
2	Be 313.107†	21197.8	21975.6	0.0023 mg/L	0.0023 mg/L	19:08:15
2	Ca 315.886†	10957111.1	11370174.0	74.99 mg/L	74.99 mg/L	19:08:03
2	Cd 228.802†	284.7	157.8	0.0038 mg/L	0.0038 mg/L	19:08:35
2	Co 228.616†	2737.5	3029.7	0.0669 mg/L	0.0669 mg/L	19:08:35
2	Cr 267.716†	32474.3	31813.9	0.2209 mg/L	0.2209 mg/L	19:08:15
2	Cu 324.752†	182021.9	186247.6	0.7988 mg/L	0.7988 mg/L	19:08:15
2	Fe 234.349†	7258472.8	7532205.7	146.4 mg/L	146.4 mg/L	19:08:03
2	Fe 238.204†	15177894.1	15752252.6	136.5 mg/L	136.5 mg/L	19:08:03
2	Mg 279.077†	777303.7	806122.6	33.14 mg/L	33.14 mg/L	19:08:09
2	Mn 257.610†	2409888.7	2499906.5	2.825 mg/L	2.825 mg/L	19:08:09
2	Mo 202.031†	241.8	239.4	0.0149 mg/L	0.0149 mg/L	19:08:35
2	Ni 231.604†	5801.9	5992.6	0.1817 mg/L	0.1817 mg/L	19:08:15
2	P 214.914†	8954.8	9250.1	6.494 mg/L	6.494 mg/L	19:08:35
2	Pb 220.353†	8737.4	9230.0	1.078 mg/L	1.078 mg/L	19:08:35
2	Sb 206.836†	18.9	12.5	-0.0030 mg/L	-0.0030 mg/L	19:08:35
2	Se 196.026†	-3.2	7.9	-0.0012 mg/L	-0.0012 mg/L	19:08:35
2	Sn 189.927†	206.9	111.7	0.0362 mg/L	0.0362 mg/L	19:08:35
2	Sr 407.771†	7179988.0	7446196.3	0.3565 mg/L	0.3565 mg/L	19:08:03
2	Ti 337.279†	2217565.8	2303836.5	3.152 mg/L	3.152 mg/L	19:08:09
2	Tl 190.801†	-25.9	-21.8	0.0208 mg/L	0.0208 mg/L	19:08:35
2	V 292.402†	49370.5	53163.0	0.2180 mg/L	0.2180 mg/L	19:08:15
2	Zn 213.857†	105071.4	108400.6	1.309 mg/L	1.309 mg/L	19:08:15

Mean Data: 0606113-14

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2968567.8	0.959	mg/L	0.0061				0.64%
Ag 328.068†	44181.0	0.1719	mg/L	0.00108	0.1719	mg/L	0.00108	0.63%
Al 237.313†	743493.3	90.53	mg/L	0.001	90.53	mg/L	0.001	0.00%
As 188.979†	36.8	0.0428	mg/L	0.00274	0.0428	mg/L	0.00274	6.40%
B 182.528†	16.4	0.0302	mg/L	0.00706	0.0302	mg/L	0.00706	23.40%
Ba 233.527†	84701.5	0.7552	mg/L	0.00315	0.7552	mg/L	0.00315	0.42%
Be 313.107†	21995.7	0.0023	mg/L	0.00002	0.0023	mg/L	0.00002	0.67%

Ca 315.886†	11433089.3	75.40 mg/L	0.587	75.40 mg/L	0.587	0.78%
Cd 228.802†	162.7	0.0039 mg/L	0.00016	0.0039 mg/L	0.00016	4.00%
Co 228.616†	3029.3	0.0669 mg/L	0.00001	0.0669 mg/L	0.00001	0.02%
Cr 267.716†	31893.6	0.2215 mg/L	0.00083	0.2215 mg/L	0.00083	0.37%
Cu 324.752†	186810.0	0.8013 mg/L	0.00350	0.8013 mg/L	0.00350	0.44%
Fe 234.349†	7574312.9	147.2 mg/L	1.16	147.2 mg/L	1.16	0.79%
Fe 238.204†	15841822.7	137.2 mg/L	1.10	137.2 mg/L	1.10	0.80%
K 766.490†	12515.4	6.797 mg/L	0.0363	6.797 mg/L	0.0363	0.53%
Li 670.784†	5777.0	0.1612 mg/L	0.00000	0.1612 mg/L	0.00000	0.00%
Mg 279.077†	807188.4	33.18 mg/L	0.062	33.18 mg/L	0.062	0.19%
Mn 257.610†	2502557.1	2.828 mg/L	0.0042	2.828 mg/L	0.0042	0.15%
Mo 202.031†	250.9	0.0157 mg/L	0.00112	0.0157 mg/L	0.00112	7.12%
Na 589.592	45949.3	5.400 mg/L	0.0016	5.400 mg/L	0.0016	0.03%
Ni 231.604†	6021.7	0.1826 mg/L	0.00128	0.1826 mg/L	0.00128	0.70%
P 214.914†	9263.7	6.504 mg/L	0.0134	6.504 mg/L	0.0134	0.21%
Pb 220.353†	9236.0	1.079 mg/L	0.0009	1.079 mg/L	0.0009	0.09%
Sb 206.836†	16.5	-0.0011 mg/L	0.00277	-0.0011 mg/L	0.00277	254.39%
Se 196.026†	6.1	-0.0032 mg/L	0.00289	-0.0032 mg/L	0.00289	89.50%
Sn 189.927†	105.2	0.0346 mg/L	0.00234	0.0346 mg/L	0.00234	6.76%
Sr 407.771†	7474571.2	0.3579 mg/L	0.00192	0.3579 mg/L	0.00192	0.54%
Ti 337.279†	2302919.2	3.151 mg/L	0.0018	3.151 mg/L	0.0018	0.06%
Tl 190.801†	-20.4	0.0220 mg/L	0.00169	0.0220 mg/L	0.00169	7.69%
V 292.402†	53371.9	0.2189 mg/L	0.00121	0.2189 mg/L	0.00121	0.55%
Zn 213.857†	108515.8	1.311 mg/L	0.0019	1.311 mg/L	0.0019	0.14%

Sequence No.: 56
Sample ID: 0606113-16
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 54
Date Collected: 6/9/2006 7:10:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606113-16

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	24433.1	24948.9	13.55	mg/L	13.55	mg/L	19:11:55
1	Li 670.784†	4167.6	4220.1	0.1165	mg/L	0.1165	mg/L	19:11:55
1	Na 589.592	44411.5	42165.7	4.934	mg/L	4.934	mg/L	19:11:55
1	Y 371.029	2967994.6	2967994.6	0.959	mg/L			19:12:18
1	Ag 328.068†	4897.3	7114.1	0.0318	mg/L	0.0318	mg/L	19:12:24
1	Al 237.313†	611272.2	637628.1	77.59	mg/L	77.59	mg/L	19:12:18
1	As 188.979†	32.9	26.0	0.0253	mg/L	0.0253	mg/L	19:12:44
1	B 182.528†	18.1	24.7	0.0471	mg/L	0.0471	mg/L	19:12:44
1	Ba 233.527†	48861.2	51136.8	0.4552	mg/L	0.4552	mg/L	19:12:24
1	Be 313.107†	19475.5	20282.9	-0.0015	mg/L	-0.0015	mg/L	19:12:24
1	Ca 315.886†	2588415.6	2696998.9	17.78	mg/L	17.78	mg/L	19:12:18
1	Cd 228.802†	144.1	12.5	0.0005	mg/L	0.0005	mg/L	19:12:44
1	Co 228.616†	3553.6	3894.2	0.0820	mg/L	0.0820	mg/L	19:12:44
1	Cr 267.716†	31788.4	31256.9	0.2161	mg/L	0.2161	mg/L	19:12:24
1	Cu 324.752†	98213.3	99742.2	0.4414	mg/L	0.4414	mg/L	19:12:24
1	Fe 234.349†	6829153.8	7119902.4	138.4	mg/L	138.4	mg/L	19:12:12
1	Fe 238.204†	14375975.9	14990012.5	129.9	mg/L	129.9	mg/L	19:12:12
1	Mg 279.077†	868442.4	904947.0	37.22	mg/L	37.22	mg/L	19:12:18
1	Mn 257.610†	3233692.7	3370684.7	3.811	mg/L	3.811	mg/L	19:12:18
1	Mo 202.031†	165.5	161.1	0.0095	mg/L	0.0095	mg/L	19:12:44
1	Ni 231.604†	5311.4	5509.4	0.1667	mg/L	0.1667	mg/L	19:12:24
1	P 214.914†	9450.5	9810.7	6.888	mg/L	6.888	mg/L	19:12:44
1	Pb 220.353†	1732.1	1967.8	0.2338	mg/L	0.2338	mg/L	19:12:44
1	Sb 206.836†	49.2	44.1	0.0087	mg/L	0.0087	mg/L	19:12:44
1	Se 196.026†	3.7	15.1	0.0073	mg/L	0.0073	mg/L	19:12:44
1	Sn 189.927†	10.8	-91.8	-0.0138	mg/L	-0.0138	mg/L	19:12:44
1	Sr 407.771†	1392594.4	1446302.0	0.0690	mg/L	0.0690	mg/L	19:12:18
1	Ti 337.279†	4364728.9	4553628.9	6.231	mg/L	6.231	mg/L	19:12:12
1	Tl 190.801†	-39.3	-36.0	0.0214	mg/L	0.0214	mg/L	19:12:44
1	V 292.402†	39833.3	43458.6	0.1709	mg/L	0.1709	mg/L	19:12:24
1	Zn 213.857†	41695.9	42827.1	0.5105	mg/L	0.5105	mg/L	19:12:24
2	K 766.490†	24816.0	25329.6	13.75	mg/L	13.75	mg/L	19:12:00
2	Li 670.784†	4232.5	4284.7	0.1184	mg/L	0.1184	mg/L	19:12:00
2	Na 589.592	45044.9	42799.1	5.012	mg/L	5.012	mg/L	19:12:00
2	Y 371.029	2970129.7	2970129.7	0.960	mg/L			19:12:59
2	Ag 328.068†	4830.0	7040.2	0.0315	mg/L	0.0315	mg/L	19:13:05

2	Al 237.313†	610336.1	636194.5	77.42 mg/L	77.42 mg/L	19:12:59
2	As 188.979†	31.7	24.8	0.0236 mg/L	0.0236 mg/L	19:13:25
2	B 182.528†	12.5	18.9	0.0352 mg/L	0.0352 mg/L	19:13:25
2	Ba 233.527†	48649.2	50879.3	0.4529 mg/L	0.4529 mg/L	19:13:05
2	Be 313.107†	19790.8	20596.9	-0.0014 mg/L	-0.0014 mg/L	19:13:05
2	Ca 315.886†	2589524.0	2696213.6	17.77 mg/L	17.77 mg/L	19:12:59
2	Cd 228.802†	142.3	10.5	0.0004 mg/L	0.0004 mg/L	19:13:25
2	Co 228.616†	3531.9	3868.8	0.0815 mg/L	0.0815 mg/L	19:13:25
2	Cr 267.716†	31725.2	31167.2	0.2154 mg/L	0.2154 mg/L	19:13:05
2	Cu 324.752†	97661.6	99093.7	0.4384 mg/L	0.4384 mg/L	19:13:05
2	Fe 234.349†	6768571.8	7051656.0	137.1 mg/L	137.1 mg/L	19:12:52
2	Fe 238.204†	14241342.9	14838946.9	128.6 mg/L	128.6 mg/L	19:12:52
2	Mg 279.077†	868408.0	904260.3	37.19 mg/L	37.19 mg/L	19:12:59
2	Mn 257.610†	3234065.1	3368648.8	3.809 mg/L	3.809 mg/L	19:12:59
2	Mo 202.031†	173.6	169.3	0.0101 mg/L	0.0101 mg/L	19:13:25
2	Ni 231.604†	5314.9	5509.1	0.1667 mg/L	0.1667 mg/L	19:13:05
2	P 214.914†	9384.8	9735.1	6.835 mg/L	6.835 mg/L	19:13:25
2	Pb 220.353†	1711.4	1944.8	0.2312 mg/L	0.2312 mg/L	19:13:25
2	Sb 206.836†	40.5	35.1	0.0044 mg/L	0.0044 mg/L	19:13:25
2	Se 196.026†	-9.9	0.9	-0.0094 mg/L	-0.0094 mg/L	19:13:25
2	Sn 189.927†	-7.6	-111.1	-0.0189 mg/L	-0.0189 mg/L	19:13:25
2	Sr 407.771†	1396015.6	1448823.1	0.0691 mg/L	0.0691 mg/L	19:12:59
2	Ti 337.279†	4328247.6	4512343.1	6.174 mg/L	6.174 mg/L	19:12:52
2	Tl 190.801†	-53.1	-50.3	0.0103 mg/L	0.0103 mg/L	19:13:25
2	V 292.402†	39710.7	43301.0	0.1705 mg/L	0.1705 mg/L	19:13:05
2	Zn 213.857†	41623.5	42720.3	0.5093 mg/L	0.5093 mg/L	19:13:05

Mean Data: 0606113-16

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	2969062.1	0.959	mg/L	0.0005				0.05%
Ag 328.068†	7077.1	0.0316	mg/L	0.00023	0.0316	mg/L	0.00023	0.74%
Al 237.313†	636911.3	77.50	mg/L	0.120	77.50	mg/L	0.120	0.16%
As 188.979†	25.4	0.0245	mg/L	0.00121	0.0245	mg/L	0.00121	4.92%
B 182.528†	21.8	0.0412	mg/L	0.00842	0.0412	mg/L	0.00842	20.45%
Ba 233.527†	51008.1	0.4541	mg/L	0.00163	0.4541	mg/L	0.00163	0.36%
Be 313.107†	20439.9	-0.0015	mg/L	0.00009	-0.0015	mg/L	0.00009	5.99%
Ca 315.886†	2696606.2	17.77	mg/L	0.004	17.77	mg/L	0.004	0.02%
Cd 228.802†	11.5	0.0005	mg/L	0.00004	0.0005	mg/L	0.00004	7.60%
Co 228.616†	3881.5	0.0818	mg/L	0.00036	0.0818	mg/L	0.00036	0.45%
Cr 267.716†	31212.1	0.2157	mg/L	0.00049	0.2157	mg/L	0.00049	0.23%
Cu 324.752†	99417.9	0.4399	mg/L	0.00210	0.4399	mg/L	0.00210	0.48%
Fe 234.349†	7085779.2	137.7	mg/L	0.94	137.7	mg/L	0.94	0.68%
Fe 238.204†	14914479.7	129.2	mg/L	0.93	129.2	mg/L	0.93	0.72%
K 766.490†	25139.2	13.65	mg/L	0.146	13.65	mg/L	0.146	1.07%
Li 670.784†	4252.4	0.1175	mg/L	0.00131	0.1175	mg/L	0.00131	1.12%
Mg 279.077†	904603.7	37.21	mg/L	0.020	37.21	mg/L	0.020	0.05%
Mn 257.610†	3369666.7	3.810	mg/L	0.0016	3.810	mg/L	0.0016	0.04%
Mo 202.031†	165.2	0.0098	mg/L	0.00040	0.0098	mg/L	0.00040	4.06%
Na 589.592	42482.4	4.973	mg/L	0.0551	4.973	mg/L	0.0551	1.11%
Ni 231.604†	5509.3	0.1667	mg/L	0.00001	0.1667	mg/L	0.00001	0.00%
P 214.914†	9772.9	6.861	mg/L	0.0375	6.861	mg/L	0.0375	0.55%
Pb 220.353†	1956.3	0.2325	mg/L	0.00186	0.2325	mg/L	0.00186	0.80%
Sb 206.836†	39.6	0.0065	mg/L	0.00303	0.0065	mg/L	0.00303	46.38%
Se 196.026†	8.0	-0.0010	mg/L	0.01177	-0.0010	mg/L	0.01177	>999.9%
Sn 189.927†	-101.5	-0.0164	mg/L	0.00362	-0.0164	mg/L	0.00362	22.06%
Sr 407.771†	1447562.6	0.0691	mg/L	0.00009	0.0691	mg/L	0.00009	0.12%
Ti 337.279†	4532986.0	6.202	mg/L	0.0399	6.202	mg/L	0.0399	0.64%
Tl 190.801†	-43.1	0.0158	mg/L	0.00783	0.0158	mg/L	0.00783	49.46%
V 292.402†	43379.8	0.1707	mg/L	0.00033	0.1707	mg/L	0.00033	0.19%
Zn 213.857†	42773.7	0.5099	mg/L	0.00085	0.5099	mg/L	0.00085	0.17%

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Sequence No.: 57
Sample ID: 0606136-01
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 55
Date Collected: 6/9/2006 7:15:05 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606136-01

Analyte	Expected Conc.	Measured Conc.	Std. Dev.	Units	Difference (%)
K 766.490	25.00	24.55	0.284	mg/L	1.8
Li 670.784	0.2625	0.2621	0.003	mg/L	0.1
Na 589.592	5.238	5.117	0.013	mg/L	2.3
Y 371.029			0.000	mg/L	Not calculated
Ag 328.068	0.0013	0.0002	0.001	mg/L	142.1
Al 237.313	144.0	145.7	0.085	mg/L	1.1
As 188.979	0.0436	0.0528	0.004	mg/L	19.2
B 182.528	0.0529	0.0566	0.002	mg/L	6.8
Ba 233.527	0.6007	0.5969	0.003	mg/L	0.6
Be 313.107	-0.0018	-0.0017	0.000	mg/L	-3.9
Ca 315.886	8.355	8.332	0.007	mg/L	0.3
Cd 228.802	0.0004	0.0006	0.000	mg/L	44.5
Co 228.616	0.0861	0.0866	0.000	mg/L	0.6
Cr 267.716	0.2455	0.2488	0.001	mg/L	1.3
Cu 324.752	0.1836	0.1861	0.001	mg/L	1.4
Fe 234.349	181.2	186.3	0.418	mg/L	2.8
Fe 238.204	166.5	170.6	0.295	mg/L	2.4
Mg 279.077	51.73	52.26	0.055	mg/L	1.0
Mn 257.610	2.769	2.817	0.001	mg/L	1.7
Mo 202.031	0.0067	0.0049	0.002	mg/L	30.5
Ni 231.604	0.1942	0.1929	0.005	mg/L	0.7
P 214.914	7.119	6.970	0.008	mg/L	2.1
Pb 220.353	0.0578	0.0616	0.001	mg/L	6.3
Sb 206.836	0.0191	0.0158	0.002	mg/L	19.0
Se 196.026	0.0083	-0.0004	0.001	mg/L	218.9
Sn 189.927	-0.0341	-0.0365	0.001	mg/L	-6.8
Sr 407.771	0.0416	0.0429	0.000	mg/L	3.0
Ti 337.279	9.983	9.960	0.004	mg/L	0.2
Tl 190.801	-0.0064	-0.0071	0.003	mg/L	-9.9
V 292.402	0.3171	0.3272	0.001	mg/L	3.1
Zn 213.857	0.4042	0.4044	0.003	mg/L	0.0

Sequence No.: 61
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/9/2006 7:34:08 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	42051.8	45268.5	24.58	mg/L	24.58	mg/L	19:35:45
1	Li 670.784†	16116.2	17426.0	0.4954	mg/L	0.4954	mg/L	19:35:45
1	Na 589.592	196368.9	194123.1	23.64	mg/L	23.64	mg/L	19:35:45
1	Y 371.029	2841788.0	2841788.0	0.918	mg/L			19:35:59
1	Ag 328.068†	59079.3	66349.0	0.2499	mg/L	0.2499	mg/L	19:36:04
1	Al 237.313†	18349.0	20198.8	2.467	mg/L	2.467	mg/L	19:36:04
1	As 188.979†	321.8	342.2	0.4621	mg/L	0.4621	mg/L	19:36:25
1	B 182.528†	202.8	226.7	0.4587	mg/L	0.4587	mg/L	19:36:25
1	Ba 233.527†	50702.9	55405.4	0.4934	mg/L	0.4934	mg/L	19:36:04
1	Be 313.107†	201332.9	219241.1	0.0488	mg/L	0.0488	mg/L	19:36:04
1	Ca 315.886†	686080.0	745083.8	4.903	mg/L	4.903	mg/L	19:35:59
1	Cd 228.802†	9768.0	10500.3	0.2477	mg/L	0.2477	mg/L	19:36:25
1	Co 228.616†	17958.5	19746.7	0.4915	mg/L	0.4915	mg/L	19:36:04
1	Cr 267.716†	67936.0	72096.5	0.4870	mg/L	0.4870	mg/L	19:36:04
1	Cu 324.752†	113359.4	120785.7	0.4992	mg/L	0.4992	mg/L	19:36:04
1	Fe 234.349†	118722.3	128002.6	2.474	mg/L	2.474	mg/L	19:36:04
1	Fe 238.204†	264927.7	287785.3	2.482	mg/L	2.482	mg/L	19:36:04
1	Mg 279.077†	110022.6	119189.2	4.885	mg/L	4.885	mg/L	19:36:04
1	Mn 257.610†	413706.1	449262.4	0.5050	mg/L	0.5050	mg/L	19:36:04
1	Mo 202.031†	6666.1	7248.3	0.4949	mg/L	0.4949	mg/L	19:36:25
1	Ni 231.604†	14271.5	15513.6	0.4773	mg/L	0.4773	mg/L	19:36:04
1	P 214.914†	6407.1	6933.9	4.868	mg/L	4.868	mg/L	19:36:25
1	Pb 220.353†	3786.7	4285.6	0.4953	mg/L	0.4953	mg/L	19:36:25
1	Sb 206.836†	966.6	1045.5	0.4906	mg/L	0.4906	mg/L	19:36:25
1	Se 196.026†	745.9	823.6	0.9568	mg/L	0.9568	mg/L	19:36:25
1	Sn 189.927†	1784.5	1840.3	0.4773	mg/L	0.4773	mg/L	19:36:25

1	Sr 407.771†	969599.6	1050120.6	0.0500 mg/L	0.0500 mg/L	19:35:59
1	Ti 337.279†	328329.9	359821.6	0.4922 mg/L	0.4922 mg/L	19:36:04
1	Tl 190.801†	577.4	633.9	0.4939 mg/L	0.4939 mg/L	19:36:25
1	V 292.402†	97041.4	107607.1	0.4954 mg/L	0.4954 mg/L	19:36:04
1	Zn 213.857†	37531.8	40222.9	0.4873 mg/L	0.4873 mg/L	19:36:04
2	K 766.490†	42272.8	45778.0	24.86 mg/L	24.86 mg/L	19:35:50
2	Li 670.784†	16330.6	17763.4	0.5051 mg/L	0.5051 mg/L	19:35:50
2	Na 589.592	197383.9	195138.1	23.77 mg/L	23.77 mg/L	19:35:50
2	Y 371.029	2825293.7	2825293.7	0.913 mg/L		19:36:31
2	Ag 328.068†	59238.8	66899.4	0.2520 mg/L	0.2520 mg/L	19:36:36
2	Al 237.313†	18323.0	20287.0	2.478 mg/L	2.478 mg/L	19:36:36
2	As 188.979†	318.2	340.3	0.4595 mg/L	0.4595 mg/L	19:36:56
2	B 182.528†	202.0	227.2	0.4596 mg/L	0.4596 mg/L	19:36:56
2	Ba 233.527†	50748.5	55777.7	0.4968 mg/L	0.4968 mg/L	19:36:36
2	Be 313.107†	201530.0	220737.2	0.0491 mg/L	0.0491 mg/L	19:36:36
2	Ca 315.886†	683831.3	746982.7	4.916 mg/L	4.916 mg/L	19:36:31
2	Cd 228.802†	9725.8	10516.2	0.2481 mg/L	0.2481 mg/L	19:36:56
2	Co 228.616†	17924.2	19823.3	0.4935 mg/L	0.4935 mg/L	19:36:36
2	Cr 267.716†	68118.3	72728.1	0.4913 mg/L	0.4913 mg/L	19:36:36
2	Cu 324.752†	113717.9	121899.1	0.5038 mg/L	0.5038 mg/L	19:36:36
2	Fe 234.349†	118403.4	128408.1	2.481 mg/L	2.481 mg/L	19:36:36
2	Fe 238.204†	264364.8	288853.2	2.491 mg/L	2.491 mg/L	19:36:36
2	Mg 279.077†	109933.0	119790.6	4.910 mg/L	4.910 mg/L	19:36:36
2	Mn 257.610†	413750.2	451941.1	0.5080 mg/L	0.5080 mg/L	19:36:36
2	Mo 202.031†	6670.1	7295.1	0.4982 mg/L	0.4982 mg/L	19:36:56
2	Ni 231.604†	14384.4	15728.0	0.4840 mg/L	0.4840 mg/L	19:36:36
2	P 214.914†	6383.0	6948.2	4.878 mg/L	4.878 mg/L	19:36:56
2	Pb 220.353†	3784.9	4307.7	0.4978 mg/L	0.4978 mg/L	19:36:56
2	Sb 206.836†	954.3	1038.2	0.4870 mg/L	0.4870 mg/L	19:36:56
2	Se 196.026†	756.3	839.7	0.9757 mg/L	0.9757 mg/L	19:36:56
2	Sn 189.927†	1794.1	1862.2	0.4830 mg/L	0.4830 mg/L	19:36:56
2	Sr 407.771†	965190.5	1051455.5	0.0501 mg/L	0.0501 mg/L	19:36:31
2	Ti 337.279†	328242.7	361813.6	0.4949 mg/L	0.4949 mg/L	19:36:36
2	Tl 190.801†	581.4	642.0	0.5002 mg/L	0.5002 mg/L	19:36:56
2	V 292.402†	96844.6	108008.5	0.4972 mg/L	0.4972 mg/L	19:36:36
2	Zn 213.857†	37458.1	40380.8	0.4891 mg/L	0.4891 mg/L	19:36:36

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2833540.9	0.916	mg/L	0.0038				0.41%
Ag 328.068†	66624.2	0.2510	mg/L	0.00147	0.2510	mg/L	0.00147	0.59%
QC value within limits for Ag 328.068 Recovery = 100.39%								
Al 237.313†	20242.9	2.472	mg/L	0.0076	2.472	mg/L	0.0076	0.31%
QC value within limits for Al 237.313 Recovery = 98.89%								
As 188.979†	341.3	0.4608	mg/L	0.00179	0.4608	mg/L	0.00179	0.39%
QC value within limits for As 188.979 Recovery = 92.16%								
B 182.528†	227.0	0.4592	mg/L	0.00062	0.4592	mg/L	0.00062	0.13%
QC value within limits for B 182.528 Recovery = 91.83%								
Ba 233.527†	55591.6	0.4951	mg/L	0.00235	0.4951	mg/L	0.00235	0.48%
QC value within limits for Ba 233.527 Recovery = 99.02%								
Be 313.107†	219989.1	0.0489	mg/L	0.00024	0.0489	mg/L	0.00024	0.48%
QC value within limits for Be 313.107 Recovery = 97.84%								
Ca 315.886†	746033.3	4.910	mg/L	0.0089	4.910	mg/L	0.0089	0.18%
QC value within limits for Ca 315.886 Recovery = 98.19%								
Cd 228.802†	10508.3	0.2479	mg/L	0.00029	0.2479	mg/L	0.00029	0.12%
QC value within limits for Cd 228.802 Recovery = 99.17%								
Co 228.616†	19785.0	0.4925	mg/L	0.00135	0.4925	mg/L	0.00135	0.27%
QC value within limits for Co 228.616 Recovery = 98.50%								
Cr 267.716†	72412.3	0.4891	mg/L	0.00303	0.4891	mg/L	0.00303	0.62%
QC value within limits for Cr 267.716 Recovery = 97.83%								
Cu 324.752†	121342.4	0.5015	mg/L	0.00327	0.5015	mg/L	0.00327	0.65%
QC value within limits for Cu 324.752 Recovery = 100.29%								
Fe 234.349†	128205.3	2.477	mg/L	0.0055	2.477	mg/L	0.0055	0.22%
QC value within limits for Fe 234.349 Recovery = 99.10%								
Fe 238.204†	288319.2	2.486	mg/L	0.0065	2.486	mg/L	0.0065	0.26%
QC value within limits for Fe 238.204 Recovery = 99.45%								
K 766.490†	45523.3	24.72	mg/L	0.196	24.72	mg/L	0.196	0.79%
QC value within limits for K 766.490 Recovery = 98.87%								
Li 670.784†	17594.7	0.5003	mg/L	0.00684	0.5003	mg/L	0.00684	1.37%
QC value within limits for Li 670.784 Recovery = 100.06%								

Mg 279.077†	119489.9	4.897 mg/L	0.0175	4.897 mg/L	0.0175	0.36%
QC value within limits for Mg 279.077 Recovery = 97.95%						
Mn 257.610†	450601.7	0.5065 mg/L	0.00214	0.5065 mg/L	0.00214	0.42%
QC value within limits for Mn 257.610 Recovery = 101.30%						
Mo 202.031†	7271.7	0.4965 mg/L	0.00227	0.4965 mg/L	0.00227	0.46%
QC value within limits for Mo 202.031 Recovery = 99.31%						
Na 589.592	194630.6	23.71 mg/L	0.088	23.71 mg/L	0.088	0.37%
QC value within limits for Na 589.592 Recovery = 94.83%						
Ni 231.604†	15620.8	0.4807 mg/L	0.00470	0.4807 mg/L	0.00470	0.98%
QC value within limits for Ni 231.604 Recovery = 96.13%						
P 214.914†	6941.1	4.873 mg/L	0.0071	4.873 mg/L	0.0071	0.15%
QC value within limits for P 214.914 Recovery = 97.46%						
Pb 220.353†	4296.6	0.4965 mg/L	0.00182	0.4965 mg/L	0.00182	0.37%
QC value within limits for Pb 220.353 Recovery = 99.31%						
Sb 206.836†	1041.9	0.4888 mg/L	0.00256	0.4888 mg/L	0.00256	0.52%
QC value within limits for Sb 206.836 Recovery = 97.77%						
Se 196.026†	831.7	0.9663 mg/L	0.01338	0.9663 mg/L	0.01338	1.38%
QC value within limits for Se 196.026 Recovery = 96.63%						
Sn 189.927†	1851.3	0.4801 mg/L	0.00403	0.4801 mg/L	0.00403	0.84%
QC value within limits for Sn 189.927 Recovery = 96.02%						
Sr 407.771†	1050788.0	0.0501 mg/L	0.00005	0.0501 mg/L	0.00005	0.09%
QC value within limits for Sr 407.771 Recovery = 100.10%						
Ti 337.279†	360817.6	0.4935 mg/L	0.00193	0.4935 mg/L	0.00193	0.39%
QC value within limits for Ti 337.279 Recovery = 98.71%						
Tl 190.801†	637.9	0.4971 mg/L	0.00447	0.4971 mg/L	0.00447	0.90%
QC value within limits for Tl 190.801 Recovery = 99.42%						
V 292.402†	107807.8	0.4963 mg/L	0.00132	0.4963 mg/L	0.00132	0.27%
QC value within limits for V 292.402 Recovery = 99.26%						
Zn 213.857†	40301.9	0.4882 mg/L	0.00133	0.4882 mg/L	0.00133	0.27%
QC value within limits for Zn 213.857 Recovery = 97.64%						

All analyte(s) passed QC.

Sequence No.: 62
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/9/2006 7:38:35 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	623.2	143.6	0.0803	mg/L	0.0803	mg/L	19:40:08
1	Li 670.784†	240.5	133.9	-0.0007	mg/L	-0.0007	mg/L	19:40:08
1	Na 589.592	1254.4	-991.4	-0.3796	mg/L	-0.3796	mg/L	19:40:08
1	Y 371.029	2867423.1	2867423.1	0.926	mg/L			19:40:21
1	Ag 328.068†	-2103.2	-262.8	-0.0016	mg/L	-0.0016	mg/L	19:40:26
1	Al 237.313†	-170.4	31.4	0.0024	mg/L	0.0024	mg/L	19:40:47
1	As 188.979†	8.9	1.3	-0.0023	mg/L	-0.0023	mg/L	19:40:47
1	B 182.528†	-5.5	0.0	-0.0033	mg/L	-0.0033	mg/L	19:40:47
1	Ba 233.527†	-179.3	-7.4	-0.0018	mg/L	-0.0018	mg/L	19:40:47
1	Be 313.107†	87.4	68.9	0.0000	mg/L	0.0000	mg/L	19:40:26
1	Ca 315.886†	2458.4	545.1	-0.0103	mg/L	-0.0103	mg/L	19:40:26
1	Cd 228.802†	124.3	-3.6	-0.0012	mg/L	-0.0012	mg/L	19:40:47
1	Co 228.616†	-191.9	-18.5	-0.0027	mg/L	-0.0027	mg/L	19:40:47
1	Cr 267.716†	1843.9	99.3	-0.0011	mg/L	-0.0011	mg/L	19:40:26
1	Cu 324.752†	2478.5	3.9	-0.0022	mg/L	-0.0022	mg/L	19:40:26
1	Fe 234.349†	1348.0	160.1	-0.0060	mg/L	-0.0060	mg/L	19:40:47
1	Fe 238.204†	1003.5	342.4	-0.0095	mg/L	-0.0095	mg/L	19:40:47
1	Mg 279.077†	775.5	203.5	-0.0185	mg/L	-0.0185	mg/L	19:40:26
1	Mn 257.610†	1350.7	163.5	-0.0033	mg/L	-0.0033	mg/L	19:40:26
1	Mo 202.031†	22.2	12.4	-0.0006	mg/L	-0.0006	mg/L	19:40:47
1	Ni 231.604†	17.3	-10.4	-0.0045	mg/L	-0.0045	mg/L	19:40:47
1	P 214.914†	52.7	12.9	0.0085	mg/L	0.0085	mg/L	19:40:47
1	Pb 220.353†	-140.8	9.6	-0.0019	mg/L	-0.0019	mg/L	19:40:47
1	Sb 206.836†	12.3	6.1	0.0009	mg/L	0.0009	mg/L	19:40:47
1	Se 196.026†	-12.1	-1.8	-0.0126	mg/L	-0.0126	mg/L	19:40:47
1	Sn 189.927†	42.6	-57.1	-0.0168	mg/L	-0.0168	mg/L	19:40:47
1	Sr 407.771†	5508.9	100.4	-0.0003	mg/L	-0.0003	mg/L	19:40:21
1	Ti 337.279†	-1895.2	200.3	0.0001	mg/L	0.0001	mg/L	19:40:26
1	Tl 190.801†	1.5	6.6	0.0015	mg/L	0.0015	mg/L	19:40:47

1	V 292.402†	-1707.5	78.8	-0.0002 mg/L	-0.0002 mg/L	19:40:26
1	Zn 213.857†	638.8	37.5	-0.0011 mg/L	-0.0011 mg/L	19:40:47
2	K 766.490†	596.2	113.8	0.0641 mg/L	0.0641 mg/L	19:40:13
2	Li 670.784†	225.6	117.5	-0.0012 mg/L	-0.0012 mg/L	19:40:13
2	Na 589.592	1304.7	-941.1	-0.3734 mg/L	-0.3734 mg/L	19:40:13
2	Y 371.029	2870352.6	2870352.6	0.927 mg/L		19:40:52
2	Ag 328.068†	-1941.4	-86.0	-0.0009 mg/L	-0.0009 mg/L	19:40:58
2	Al 237.313†	-167.6	34.6	0.0028 mg/L	0.0028 mg/L	19:41:18
2	As 188.979†	5.6	-2.2	-0.0072 mg/L	-0.0072 mg/L	19:41:18
2	B 182.528†	-4.9	0.6	-0.0020 mg/L	-0.0020 mg/L	19:41:18
2	Ba 233.527†	-179.5	-7.4	-0.0018 mg/L	-0.0018 mg/L	19:41:18
2	Be 313.107†	-16.0	-42.6	-0.0001 mg/L	-0.0001 mg/L	19:40:58
2	Ca 315.886†	2526.3	615.6	-0.0099 mg/L	-0.0099 mg/L	19:40:58
2	Cd 228.802†	125.3	-2.6	-0.0011 mg/L	-0.0011 mg/L	19:41:18
2	Co 228.616†	-188.4	-14.6	-0.0026 mg/L	-0.0026 mg/L	19:41:18
2	Cr 267.716†	1843.2	96.5	-0.0012 mg/L	-0.0012 mg/L	19:40:58
2	Cu 324.752†	2471.4	-6.4	-0.0022 mg/L	-0.0022 mg/L	19:40:58
2	Fe 234.349†	1328.5	137.6	-0.0064 mg/L	-0.0064 mg/L	19:41:18
2	Fe 238.204†	1019.7	358.8	-0.0093 mg/L	-0.0093 mg/L	19:41:18
2	Mg 279.077†	691.2	111.8	-0.0223 mg/L	-0.0223 mg/L	19:40:58
2	Mn 257.610†	1211.4	11.8	-0.0035 mg/L	-0.0035 mg/L	19:40:58
2	Mo 202.031†	26.3	16.8	-0.0003 mg/L	-0.0003 mg/L	19:41:18
2	Ni 231.604†	28.6	1.8	-0.0041 mg/L	-0.0041 mg/L	19:41:18
2	P 214.914†	51.8	11.9	0.0078 mg/L	0.0078 mg/L	19:41:18
2	Pb 220.353†	-146.9	3.2	-0.0026 mg/L	-0.0026 mg/L	19:41:18
2	Sb 206.836†	12.1	5.9	0.0007 mg/L	0.0007 mg/L	19:41:18
2	Se 196.026†	-8.2	2.4	-0.0076 mg/L	-0.0076 mg/L	19:41:18
2	Sn 189.927†	50.0	-49.2	-0.0148 mg/L	-0.0148 mg/L	19:41:18
2	Sr 407.771†	5628.1	222.9	-0.0003 mg/L	-0.0003 mg/L	19:40:52
2	Ti 337.279†	-1932.7	162.0	0.0000 mg/L	0.0000 mg/L	19:40:58
2	Tl 190.801†	-12.0	-7.9	-0.0098 mg/L	-0.0098 mg/L	19:41:18
2	V 292.402†	-1745.6	39.6	-0.0004 mg/L	-0.0004 mg/L	19:40:58
2	Zn 213.857†	651.7	50.7	-0.0009 mg/L	-0.0009 mg/L	19:41:18

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	2868887.9	0.927	mg/L	0.0007				0.07%
Ag 328.068†	-174.4	-0.0012	mg/L	0.00047	-0.0012	mg/L	0.00047	37.71%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	33.0	0.0026	mg/L	0.00028	0.0026	mg/L	0.00028	10.93%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	-0.4	-0.0048	mg/L	0.00343	-0.0048	mg/L	0.00343	71.92%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	0.3	-0.0026	mg/L	0.00087	-0.0026	mg/L	0.00087	32.71%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	-7.4	-0.0018	mg/L	0.00000	-0.0018	mg/L	0.00000	0.02%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	13.1	0.0000	mg/L	0.00002	0.0000	mg/L	0.00002	35.93%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	580.4	-0.0101	mg/L	0.00033	-0.0101	mg/L	0.00033	3.24%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	-3.1	-0.0012	mg/L	0.00004	-0.0012	mg/L	0.00004	3.19%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-16.6	-0.0027	mg/L	0.00007	-0.0027	mg/L	0.00007	2.58%
QC value less than the lower limit for Co 228.616 Recovery = Not calculated								
Cr 267.716†	97.9	-0.0012	mg/L	0.00001	-0.0012	mg/L	0.00001	1.15%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-1.2	-0.0022	mg/L	0.00003	-0.0022	mg/L	0.00003	1.38%
QC value less than the lower limit for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	148.9	-0.0062	mg/L	0.00031	-0.0062	mg/L	0.00031	5.01%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Fe 238.204†	350.6	-0.0094	mg/L	0.00010	-0.0094	mg/L	0.00010	1.07%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	128.7	0.0722	mg/L	0.01144	0.0722	mg/L	0.01144	15.85%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	125.7	-0.0009	mg/L	0.00033	-0.0009	mg/L	0.00033	35.23%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	157.6	-0.0204	mg/L	0.00267	-0.0204	mg/L	0.00267	13.12%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	87.7	-0.0034	mg/L	0.00012	-0.0034	mg/L	0.00012	3.61%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031†	14.6	-0.0005 mg/L	0.00021	-0.0005 mg/L	0.00021	43.82%
QC value within limits for Mo 202.031 Recovery = Not calculated							
Na 589.592	-966.3	-0.3765 mg/L	0.00438	-0.3765 mg/L	0.00438	1.16%
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	-4.3	-0.0043 mg/L	0.00027	-0.0043 mg/L	0.00027	6.18%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated							
P 214.914†	12.4	0.0081 mg/L	0.00049	0.0081 mg/L	0.00049	6.05%
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	6.4	-0.0023 mg/L	0.00053	-0.0023 mg/L	0.00053	23.22%
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	6.0	0.0008 mg/L	0.00009	0.0008 mg/L	0.00009	11.24%
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	0.3	-0.0101 mg/L	0.00349	-0.0101 mg/L	0.00349	34.58%
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	-53.2	-0.0158 mg/L	0.00146	-0.0158 mg/L	0.00146	9.26%
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 407.771†	161.7	-0.0003 mg/L	0.00000	-0.0003 mg/L	0.00000	1.42%
QC value within limits for Sr 407.771 Recovery = Not calculated							
Ti 337.279†	181.1	0.0001 mg/L	0.00004	0.0001 mg/L	0.00004	61.01%
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl 190.801†	-0.6	-0.0042 mg/L	0.00799	-0.0042 mg/L	0.00799	191.49%
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	59.2	-0.0003 mg/L	0.00012	-0.0003 mg/L	0.00012	42.40%
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	44.1	-0.0010 mg/L	0.00011	-0.0010 mg/L	0.00011	11.28%
QC value within limits for Zn 213.857 Recovery = Not calculated							

QC Failed. Continue with analysis.

Sequence No.: 63
Sample ID: BF60914-MS2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 59
Date Collected: 6/9/2006 7:42:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF60914-MS2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	75578.3	80254.3	43.57	mg/L	43.57	mg/L	19:44:32
1	Li 670.784†	22787.4	24231.1	0.6907	mg/L	0.6907	mg/L	19:44:32
1	Na 589.592	216103.9	213858.1	26.07	mg/L	26.07	mg/L	19:44:32
1	Y 371.029	2895504.0	2895504.0	0.936	mg/L			19:45:00
1	Ag 328.068†	50570.2	56060.3	0.2184	mg/L	0.2184	mg/L	19:45:06
1	Al 237.313†	1113845.1	1190771.4	145.2	mg/L	145.2	mg/L	19:45:00
1	As 188.979†	314.6	328.0	0.4333	mg/L	0.4333	mg/L	19:45:26
1	B 182.528†	193.8	213.0	0.4307	mg/L	0.4307	mg/L	19:45:26
1	Ba 233.527†	107930.1	115549.4	1.031	mg/L	1.031	mg/L	19:45:06
1	Be 313.107†	211669.5	226221.9	0.0407	mg/L	0.0407	mg/L	19:45:06
1	Ca 315.886†	1691490.2	1805875.5	11.90	mg/L	11.90	mg/L	19:45:00
1	Cd 228.802†	8304.7	8738.9	0.2074	mg/L	0.2074	mg/L	19:45:26
1	Co 228.616†	18844.1	20330.5	0.4856	mg/L	0.4856	mg/L	19:45:26
1	Cr 267.716†	92709.0	97203.0	0.6665	mg/L	0.6665	mg/L	19:45:06
1	Cu 324.752†	133360.0	139873.4	0.6188	mg/L	0.6188	mg/L	19:45:06
1	Fe 234.349†	8753446.5	9355005.2	181.8	mg/L	181.8	mg/L	19:44:52
1	Fe 238.204†	18005167.1	19244449.8	166.7	mg/L	166.7	mg/L	19:44:52
1	Mg 279.077†	1254494.7	1340258.7	55.12	mg/L	55.12	mg/L	19:45:00
1	Mn 257.610†	2434472.8	2600841.6	2.940	mg/L	2.940	mg/L	19:45:00
1	Mo 202.031†	5659.0	6037.2	0.4120	mg/L	0.4120	mg/L	19:45:26
1	Ni 231.604†	17948.6	19155.6	0.5902	mg/L	0.5902	mg/L	19:45:26
1	P 214.914†	13233.8	14101.3	9.900	mg/L	9.900	mg/L	19:45:26
1	Pb 220.353†	3457.0	3856.6	0.4651	mg/L	0.4651	mg/L	19:45:26
1	Sb 206.836†	553.4	584.3	0.2559	mg/L	0.2559	mg/L	19:45:26
1	Se 196.026†	612.6	666.1	0.7718	mg/L	0.7718	mg/L	19:45:26
1	Sn 189.927†	1452.7	1449.6	0.3929	mg/L	0.3929	mg/L	19:45:26
1	Sr 407.771†	1687620.4	1798001.9	0.0859	mg/L	0.0859	mg/L	19:45:00
1	Ti 337.279†	6923344.3	7402403.8	10.13	mg/L	10.13	mg/L	19:45:00
1	Tl 190.801†	438.5	473.7	0.3927	mg/L	0.3927	mg/L	19:45:26
1	V 292.402†	156337.9	169026.7	0.7372	mg/L	0.7372	mg/L	19:45:06
1	Zn 213.857†	63062.7	66753.9	0.7984	mg/L	0.7984	mg/L	19:45:06
2	K 766.490†	75393.6	80775.6	43.86	mg/L	43.86	mg/L	19:44:37

ANALYSIS SEQUENCE

BPG0188

Instrument: ICP3

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0188-CAL1	QC		1		6F12043		
BPG0188-CAL2	QC		2		6F12045		
BPG0188-CAL3	QC		3		6F12046		
BPG0188-CAL4	QC		4		6F12047		
BPG0188-ICV1	QC		5		6F12046		
BPG0188-SCV1	QC		6		6F12050		
BPG0188-ICB1	QC		7				
BPG0188-CRL1	QC		8		6F12051		
BPG0188-CRL2	QC		9		6F12052		
BPG0188-CRL3	QC		10		6F12053		
BPG0188-IFA1	QC		11		6E30072		
BPG0188-CCB1	QC		12				
BPG0188-CCV1	QC		13		6F12046		
BPG0188-IFB1	QC		14		6E30073		
0606113-07	Al: ppm Aluminum 6010	A	15				MACTEC Engineering & Consulting, In
0606113-07	Ca: ppm Calcium 6010	A	15				MACTEC Engineering & Consulting, In
0606113-07	Mg: ppm Magnesium 6010	A	15				MACTEC Engineering & Consulting, In
0606113-07	Fe: ppm Iron 6010	A	15				MACTEC Engineering & Consulting, In
0606113-07RE1	Be: ppm Beryllium 6010	F	16				MACTEC Engineering & Consulting, In
BPG0188-CCB2	QC		17				
BPG0188-CCV2	QC		18		6F12046		
BPG0188-CCV3	QC		19		6F12046		
BPG0188-CCV4	QC		20		6F12046		
BPG0188-CCV5	QC		21		6F12046		
BPG0188-CCB3	QC		22				
BPG0188-CCB4	QC		23				
BPG0188-CCB5	QC		24				
BPG0188-IFA2	QC		25		6E30072		
BPG0188-IFB2	QC		26		6E30073		

Samples Loaded By Date

Data Processed By Date

-01 Be X5

ESS Laboratory
ICP Data Review Checklist

SIF: 0601206UA	**Date Run:** 6/12/06
Method: Liquithug - DV	**Y-IS:** 3834414.7
Project Number(s): 0606146, 113, 132, 155, 164, 167	**SOP NO. 30_6010B**

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the daily standard curve consist of a Calibration Blank and the required minimum number of calibration standards and is $R^2 > 0.995$ for all elements?	X		
2. Is the mid-point initial calibration standard reanalyzed immediately after calibration and results within QC limits? (±5% for 200.7, 10% for 6010B)	X		
3. Are interference check standards analyzed at the beginning of each analytical run and within QC limits?	X		
4. Is the ICV from a second source and is its percent within QC limits (±10% and %RPD< 5)?	X		
5. Is the CRI standard 20% of the true value?	X		
6. Are the CCVs analyzed at required frequency and all parameters within QC limits? (±10%)	X		
7. Are the CCB standards analyzed at required frequency and at the end of the analytical sequence and are all parameters within QC limits? (< MRL)	X		
8. Is the method blank run at the desired frequency and is its concentration for target analytes less than the MRL?	X		
9. Is the Laboratory Control Sample run at the desired frequency and is the percent recovery within QC limits? (±15% for 200.7, ±20% for 6010B)	X		
10. Is the Matrix Duplicate run at the desired frequency and is the RPD within QC limits? (± 20% for aqueous and + 35% for soil samples/ **All USACE/Navy samples ≤25%**)	X		
11. Is the matrix spike run at the desired frequency and is the percent recovery /RPD within QC limits? (75-125%)	X		
12. Is a Serial Dilution Analysis performed at the desired frequency and within QC limits? (± 10%)	X		
13. Are post-digestion spikes analyzed at the desired frequency and within QC limits? (85-115% for 200.7, 75-125% for 6010B)	X		
14. Are all samples with concentrations greater than the linear dynamic range diluted and reanalyzed?			X
15. Are all sample IDs and units checked for transcription errors?	X		
16. Are all nonconformances included and noted?	X		
17. Is the correct methodology used for sample prep and analysis?	X		
18. Are all sample holding times met?	X		
19. Did analyst sign/date the appropriate print outs and report sheets?	X		

Comments on any "No" response:
0606164-04, 05 w/QC report Be @ 0.002

Analyst: [signature] Date: 6/13/06 2nd Level Review: SVD Date: 6/13/06

Page _____

Control 30.0007-0602A

042

Analytical Sequence

Method : Everything-DV

Seq.	Loc.	Sample ID
1	1	Calib Blank 1
2	2	Calib Std 1
3	3	Calib Std 2
4	4	Calib Std 3
5	3	STD2
6	5	ICV
7	1	ICCB
8	6	CRI1
9	7	CRI2
10	8	CRI3
11	160	ICSA
12	159	ICSAB
13	3	CCV
14	1	ICCB
15	9	0606146-01tclpx5
16	10	bf61004-dup1x5
17	11	bf61004-ms1x5
18	12	bf61004-sd1x25
19	13	bf61004-pds1x5
20	14	0606113-07x5
21	15	BF61206-BLK1
22	16	BF61206-BS1
23	17	BF61206-BSD1
24	18	BF61206-SRM1
25	3	CCV
26	1	ICCB
27	19	0606155-01
28	20	0606155-02
29	21	0606155-03
30	22	0606155-04
31	23	0606155-05
32	24	0606155-06
33	25	0606155-07
34	26	0606155-08
35	27	BF61206-DUP1
36	28	BF61206-MS1
37	3	CCV
38	1	ICCB
39	29	BF61206-SD1
40	30	BF61206-PDS1
41	31	0606132-06X1000
42	32	0606155-01X10
43	33	0606155-04X10
44	3	CCV
45	1	ICCB
46	160	ICSA
47	159	ICSAB
48	0	WASH

Ag : 0.005
As : 0.02
Ba : 0.01
Be : 0.001
Cd : 0.005
Cr : 0.01
Pb : 0.01
Se : 0.04
Ni 0.01
Sb 0.02
Tl 0.1
V 0.01
Zn 0.01

Analytical Sequence

Method : Everything-DV

Seq.	Loc.	Sample ID	Status
1	3	STD2	
2	5	ICV	
3	1	ICCB	
4	6	CRI1	
5	7	CRI2	
6	8	CRI3	
7	160	ICSA	
8	159	ICSAB	
9	3	CCV	
10	1	ICCB	
11	9	0606146-01tclpx5	
12	10	bf61004-dup1x5	
13	11	bf61004-ms1x5	
14	12	bf61004-sd1x25	
15	13	bf61004-pds1x5	
16	14	0606113-07x5	
17	15	BF61206-BLK1	
18	16	BF61206-BS1	
19	17	BF61206-BSD1	
20	18	BF61206-SRM1	
21	3	CCV	
22	1	ICCB	
23	19	0606155-01	
24	20	0606155-02	
25	21	0606155-03	
26	22	0606155-04	
27	23	0606155-05	
28	24	0606155-06	
29	25	0606155-07	
30	26	0606155-08	
31	27	BF61206-DUP1	
32	28	BF61206-MS1	
33	3	CCV	
34	1	ICCB	
35	29	BF61206-SD1	
36	30	BF61206-PDS1	
37	31	0606132-06X1000	
38	32	0606155-01X10	
39	33	0606155-04X10	
40	3	CCV	
41	1	ICCB	
42	34	0606164-04	
43	35	0606164-05	
44	36	BF61206-DUP2	
45	37	BF61206-MS2	
46	38	BF61206-SD2	
47	39	BF61206-PDS2	
48	40	0606167-01	
49	41	0606167-01X10	Being Analyzed
50	3	CCV	
51	1	ICCB	
52	160	ICSA	
53	159	ICSAB	
54	0	WASH	

Analysis Begun

Start Time: 6/12/2006 1:15:41 PM
Logged In Analyst: ICP3
Spectrometer Model: Optima 4300 DV, S/N 077N1032302
Plasma On Time: 6/12/2006 11:20:27 AM
Technique: ICP Continuous
Autosampler Model: AS-91

Sample Information File: C:\pe\Administrator\Sample Information\061206NA.sif
Batch ID: 061206na
Results Data Set: 061206nad
Results Library: Q:\Metals\Results\ICP3\Results\Results.mdb

Sequence No.: 1
Sample ID: Calib Blank 1
Analyst:
Initial Sample Wt:
Dilution:
Autosampler Location: 1
Date Collected: 6/12/2006 1:15:42 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Blank 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	569.1	570.3	[0.00]	mg/L	13:17:15
1	Li 670.784†	171.4	171.8	[0.00]	mg/L	13:17:15
1	Na 589.592	1152.9	1152.9	[0.00]	mg/L	13:17:15
1	Y 371.029	3826601.8	3826601.8	0.998	mg/L	13:17:28
1	Ag 328.068†	-2579.4	-2584.6	[0.00]	mg/L	13:17:33
1	Al 237.313†	-166.7	-167.1	[0.00]	mg/L	13:17:54
1	As 188.979†	7.6	7.7	[0.00]	mg/L	13:17:54
1	B 182.528†	-7.2	-7.3	[0.00]	mg/L	13:17:54
1	Ba 233.527†	-200.8	-201.2	[0.00]	mg/L	13:17:54
1	Be 313.107†	929.7	931.6	[0.00]	mg/L	13:17:33
1	Ca 315.886†	2184.8	2189.2	[0.00]	mg/L	13:17:33
1	Cd 228.802†	132.4	132.7	[0.00]	mg/L	13:17:54
1	Co 228.616†	-187.7	-188.1	[0.00]	mg/L	13:17:54
1	Cr 267.716†	1799.5	1803.1	[0.00]	mg/L	13:17:33
1	Cu 324.752†	2412.8	2417.7	[0.00]	mg/L	13:17:33
1	Fe 234.349†	1402.6	1405.5	[0.00]	mg/L	13:17:54
1	Fe 238.204†	896.9	898.7	[0.00]	mg/L	13:17:54
1	Mg 279.077†	630.9	632.1	[0.00]	mg/L	13:17:33
1	Mn 257.610†	1676.4	1679.8	[0.00]	mg/L	13:17:33
1	Mo 202.031†	31.1	31.1	[0.00]	mg/L	13:17:54
1	Ni 231.604†	34.6	34.7	[0.00]	mg/L	13:17:54
1	P 214.914†	42.6	42.7	[0.00]	mg/L	13:17:54
1	Pb 220.353†	-150.8	-151.1	[0.00]	mg/L	13:17:54
1	Sb 206.836†	10.7	10.7	[0.00]	mg/L	13:17:54
1	Se 196.026†	-6.1	-6.1	[0.00]	mg/L	13:17:54
1	Sn 189.927†	81.5	81.7	[0.00]	mg/L	13:17:54
1	Sr 407.771†	6579.9	6593.4	[0.00]	mg/L	13:17:28
1	Ti 337.279†	-2302.1	-2306.8	[0.00]	mg/L	13:17:33
1	Tl 190.801†	-2.8	-2.8	[0.00]	mg/L	13:17:54
1	V 292.402†	-1614.3	-1617.6	[0.00]	mg/L	13:17:33
1	Zn 213.857†	654.7	656.1	[0.00]	mg/L	13:17:54
2	K 766.490†	507.3	506.3	[0.00]	mg/L	13:17:20
2	Li 670.784†	189.6	189.2	[0.00]	mg/L	13:17:20
2	Na 589.592	1227.4	1227.4	[0.00]	mg/L	13:17:20
2	Y 371.029	3842227.5	3842227.5	1.00	mg/L	13:17:59
2	Ag 328.068†	-2644.1	-2638.7	[0.00]	mg/L	13:18:05
2	Al 237.313†	-148.1	-147.8	[0.00]	mg/L	13:18:25
2	As 188.979†	11.8	11.8	[0.00]	mg/L	13:18:25
2	B 182.528†	-7.3	-7.3	[0.00]	mg/L	13:18:25
2	Ba 233.527†	-181.4	-181.1	[0.00]	mg/L	13:18:25
2	Be 313.107†	1039.0	1036.9	[0.00]	mg/L	13:18:05
2	Ca 315.886†	2080.5	2076.3	[0.00]	mg/L	13:18:05
2	Cd 228.802†	134.2	133.9	[0.00]	mg/L	13:18:25
2	Co 228.616†	-196.1	-195.7	[0.00]	mg/L	13:18:25
2	Cr 267.716†	1664.1	1660.7	[0.00]	mg/L	13:18:05
2	Cu 324.752†	2455.2	2450.2	[0.00]	mg/L	13:18:05
2	Fe 234.349†	1374.6	1371.8	[0.00]	mg/L	13:18:25
2	Fe 238.204†	916.3	914.4	[0.00]	mg/L	13:18:25

2	Mg 279.077†	668.9	667.6	[0.00]	mg/L	13:18:05
2	Mn 257.610†	1765.5	1761.9	[0.00]	mg/L	13:18:05
2	Mo 202.031†	43.6	43.5	[0.00]	mg/L	13:18:25
2	Ni 231.604†	46.3	46.2	[0.00]	mg/L	13:18:25
2	P 214.914†	41.0	41.0	[0.00]	mg/L	13:18:25
2	Pb 220.353†	-151.7	-151.4	[0.00]	mg/L	13:18:25
2	Sb 206.836†	12.6	12.6	[0.00]	mg/L	13:18:25
2	Se 196.026†	-8.2	-8.2	[0.00]	mg/L	13:18:25
2	Sn 189.927†	93.3	93.1	[0.00]	mg/L	13:18:25
2	Sr 407.771†	6722.0	6708.3	[0.00]	mg/L	13:17:59
2	Ti 337.279†	-2393.5	-2388.7	[0.00]	mg/L	13:18:05
2	Tl 190.801†	-7.7	-7.7	[0.00]	mg/L	13:18:25
2	V 292.402†	-1554.0	-1550.9	[0.00]	mg/L	13:18:05
2	Zn 213.857†	651.8	650.4	[0.00]	mg/L	13:18:25

Mean Data: Calib Blank 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3834414.7	11049.08	0.29%	1.00	mg/L
Ag 328.068†	-2611.7	38.25	1.46%	[0.00]	mg/L
Al 237.313†	-157.5	13.60	8.64%	[0.00]	mg/L
As 188.979†	9.7	2.93	30.08%	[0.00]	mg/L
B 182.528†	-7.3	0.02	0.28%	[0.00]	mg/L
Ba 233.527†	-191.1	14.20	7.43%	[0.00]	mg/L
Be 313.107†	984.2	74.47	7.57%	[0.00]	mg/L
Ca 315.886†	2132.8	79.85	3.74%	[0.00]	mg/L
Cd 228.802†	133.3	0.87	0.65%	[0.00]	mg/L
Co 228.616†	-191.9	5.34	2.78%	[0.00]	mg/L
Cr 267.716†	1731.9	100.74	5.82%	[0.00]	mg/L
Cu 324.752†	2434.0	23.02	0.95%	[0.00]	mg/L
Fe 234.349†	1388.6	23.83	1.72%	[0.00]	mg/L
Fe 238.204†	906.6	11.14	1.23%	[0.00]	mg/L
K 766.490†	538.3	45.26	8.41%	[0.00]	mg/L
Li 670.784†	180.5	12.30	6.81%	[0.00]	mg/L
Mg 279.077†	649.9	25.05	3.85%	[0.00]	mg/L
Mn 257.610†	1720.9	58.06	3.37%	[0.00]	mg/L
Mo 202.031†	37.3	8.73	23.40%	[0.00]	mg/L
Na 589.592	1190.1	52.72	4.43%	[0.00]	mg/L
Ni 231.604†	40.4	8.13	20.09%	[0.00]	mg/L
P 214.914†	41.8	1.23	2.94%	[0.00]	mg/L
Pb 220.353†	-151.3	0.22	0.14%	[0.00]	mg/L
Sb 206.836†	11.6	1.35	11.61%	[0.00]	mg/L
Se 196.026†	-7.1	1.45	20.31%	[0.00]	mg/L
Sn 189.927†	87.4	8.11	9.28%	[0.00]	mg/L
Sr 407.771†	6650.8	81.26	1.22%	[0.00]	mg/L
Ti 337.279†	-2347.8	57.87	2.46%	[0.00]	mg/L
Tl 190.801†	-5.3	3.45	65.41%	[0.00]	mg/L
V 292.402†	-1584.2	47.16	2.98%	[0.00]	mg/L
Zn 213.857†	653.2	3.99	0.61%	[0.00]	mg/L

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Sequence No.: 2
Sample ID: Calib Std 1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 2
Date Collected: 6/12/2006 1:20:02 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 1

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	10327.3	9838.0	[5.0000]	mg/L	13:21:40
1	Li 670.784†	3870.5	3708.4	[0.1]	mg/L	13:21:40
1	Na 589.592	43732.9	42542.8	[5.0000]	mg/L	13:21:40
1	Y 371.029	3816290.2	3816290.2	0.995	mg/L	13:21:54
1	Ag 328.068†	12544.5	15215.8	[0.05]	mg/L	13:21:59
1	Al 237.313†	4012.6	4189.1	[0.5]	mg/L	13:21:59
1	As 188.979†	88.8	79.5	[0.1000]	mg/L	13:22:19
1	B 182.528†	40.4	47.9	[0.1000]	mg/L	13:22:19
1	Ba 233.527†	11981.5	12229.5	[0.1000]	mg/L	13:21:59
1	Be 313.107†	48812.2	48059.8	[0.0100]	mg/L	13:21:59

1	Ca 315.886†	161183.3	159816.0	[1.0000]	mg/L	13:21:54
1	Cd 228.802†	2378.6	2256.5	[0.0500]	mg/L	13:22:19
1	Co 228.616†	3987.8	4198.7	[0.1000]	mg/L	13:22:19
1	Cr 267.716†	18763.9	17121.1	[0.1000]	mg/L	13:21:59
1	Cu 324.752†	28251.3	25951.5	[0.1000]	mg/L	13:21:59
1	Fe 234.349†	29228.7	27978.9	[0.5]	mg/L	13:21:59
1	Fe 238.204†	61350.4	60735.2	[0.5]	mg/L	13:21:59
1	Mg 279.077†	26726.0	26203.1	[1.0000]	mg/L	13:21:59
1	Mn 257.610†	96984.9	95724.7	[0.1000]	mg/L	13:21:59
1	Mo 202.031†	1590.0	1560.3	[0.1000]	mg/L	13:22:19
1	Ni 231.604†	3648.9	3625.8	[0.1000]	mg/L	13:21:59
1	P 214.914†	1509.6	1474.9	[1]	mg/L	13:22:19
1	Pb 220.353†	789.8	944.9	[0.1000]	mg/L	13:22:19
1	Sb 206.836†	225.4	214.9	[0.1000]	mg/L	13:22:19
1	Se 196.026†	169.4	177.4	[0.2000]	mg/L	13:22:19
1	Sn 189.927†	571.1	486.5	[0.1000]	mg/L	13:22:19
1	Sr 407.771†	253648.2	248202.0	[0.0100]	mg/L	13:21:54
1	Ti 337.279†	83494.5	86238.8	[0.1000]	mg/L	13:21:59
1	Tl 190.801†	77.2	82.9	[0.1000]	mg/L	13:22:19
1	V 292.402†	24207.6	25906.8	[0.1000]	mg/L	13:21:59
1	Zn 213.857†	9254.7	8645.4	[0.1000]	mg/L	13:21:59
2	K 766.490†	10253.1	9739.3	[5.0000]	mg/L	13:21:45
2	Li 670.784†	3913.3	3742.1	[0.1]	mg/L	13:21:45
2	Na 589.592	43946.5	42756.3	[5.0000]	mg/L	13:21:45
2	Y 371.029	3825284.7	3825284.7	0.998	mg/L	13:22:25
2	Ag 328.068†	12758.8	15400.9	[0.05]	mg/L	13:22:30
2	Al 237.313†	4069.9	4237.0	[0.5]	mg/L	13:22:30
2	As 188.979†	88.8	79.3	[0.1000]	mg/L	13:22:51
2	B 182.528†	38.9	46.3	[0.1000]	mg/L	13:22:51
2	Ba 233.527†	11977.1	12196.8	[0.1000]	mg/L	13:22:30
2	Be 313.107†	48547.7	47679.3	[0.0100]	mg/L	13:22:30
2	Ca 315.886†	161591.8	159844.8	[1.0000]	mg/L	13:22:25
2	Cd 228.802†	2400.3	2272.8	[0.0500]	mg/L	13:22:51
2	Co 228.616†	3999.1	4200.6	[0.1000]	mg/L	13:22:51
2	Cr 267.716†	18657.6	16970.2	[0.1000]	mg/L	13:22:30
2	Cu 324.752†	28129.3	25762.5	[0.1000]	mg/L	13:22:30
2	Fe 234.349†	29134.6	27815.5	[0.5]	mg/L	13:22:30
2	Fe 238.204†	61428.5	60668.5	[0.5]	mg/L	13:22:30
2	Mg 279.077†	26887.3	26301.6	[1.0000]	mg/L	13:22:30
2	Mn 257.610†	96932.6	95443.1	[0.1000]	mg/L	13:22:30
2	Mo 202.031†	1602.8	1569.3	[0.1000]	mg/L	13:22:51
2	Ni 231.604†	3631.6	3599.8	[0.1000]	mg/L	13:22:30
2	P 214.914†	1512.5	1474.3	[1]	mg/L	13:22:51
2	Pb 220.353†	796.7	949.9	[0.1000]	mg/L	13:22:51
2	Sb 206.836†	224.3	213.2	[0.1000]	mg/L	13:22:51
2	Se 196.026†	169.6	177.2	[0.2000]	mg/L	13:22:51
2	Sn 189.927†	563.1	477.1	[0.1000]	mg/L	13:22:51
2	Sr 407.771†	254015.8	247971.3	[0.0100]	mg/L	13:22:25
2	Ti 337.279†	83411.1	85957.9	[0.1000]	mg/L	13:22:30
2	Tl 190.801†	88.7	94.2	[0.1000]	mg/L	13:22:51
2	V 292.402†	24240.1	25882.1	[0.1000]	mg/L	13:22:30
2	Zn 213.857†	9286.6	8655.5	[0.1000]	mg/L	13:22:30

Mean Data: Calib Std 1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3820787.4	6360.03	0.17%	0.996	mg/L
Ag 328.068†	15308.4	130.90	0.86%	[0.05]	mg/L
Al 237.313†	4213.1	33.90	0.80%	[0.5]	mg/L
As 188.979†	79.4	0.15	0.18%	[0.1000]	mg/L
B 182.528†	47.1	1.12	2.37%	[0.1000]	mg/L
Ba 233.527†	12213.1	23.12	0.19%	[0.1000]	mg/L
Be 313.107†	47869.5	269.04	0.56%	[0.0100]	mg/L
Ca 315.886†	159830.4	20.32	0.01%	[1.0000]	mg/L
Cd 228.802†	2264.6	11.47	0.51%	[0.0500]	mg/L
Co 228.616†	4199.6	1.33	0.03%	[0.1000]	mg/L
Cr 267.716†	17045.6	106.68	0.63%	[0.1000]	mg/L
Cu 324.752†	25857.0	133.69	0.52%	[0.1000]	mg/L
Fe 234.349†	27897.2	115.52	0.41%	[0.5]	mg/L
Fe 238.204†	60701.9	47.16	0.08%	[0.5]	mg/L
K 766.490†	9788.7	69.79	0.71%	[5.0000]	mg/L

Li 670.784†	3725.3	23.83	0.64%	[0.1]	mg/L
Mg 279.077†	26252.3	69.66	0.27%	[1.0000]	mg/L
Mn 257.610†	95583.9	199.12	0.21%	[0.1000]	mg/L
Mo 202.031†	1564.8	6.40	0.41%	[0.1000]	mg/L
Na 589.592	42649.5	151.01	0.35%	[5.0000]	mg/L
Ni 231.604†	3612.8	18.38	0.51%	[0.1000]	mg/L
P 214.914†	1474.6	0.43	0.03%	[1]	mg/L
Pb 220.353†	947.4	3.58	0.38%	[0.1000]	mg/L
Sb 206.836†	214.0	1.21	0.56%	[0.1000]	mg/L
Se 196.026†	177.3	0.14	0.08%	[0.2000]	mg/L
Sn 189.927†	481.8	6.62	1.37%	[0.1000]	mg/L
Sr 407.771†	248086.6	163.12	0.07%	[0.0100]	mg/L
Ti 337.279†	86098.3	198.62	0.23%	[0.1000]	mg/L
Tl 190.801†	88.5	8.01	9.05%	[0.1000]	mg/L
V 292.402†	25894.5	17.46	0.07%	[0.1000]	mg/L
Zn 213.857†	8650.5	7.14	0.08%	[0.1000]	mg/L

Sequence No.: 3
Sample ID: Calib Std 2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/12/2006 1:24:29 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 2

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	49512.5	50338.0	[25.0000]	mg/L	13:26:07
1	Li 670.784†	18524.2	18854.0	[0.5]	mg/L	13:26:07
1	Na 589.592	206389.1	205199.0	[25.000]	mg/L	13:26:07
1	Y 371.029	3731629.4	3731629.4	0.973	mg/L	13:26:22
1	Ag 328.068†	69982.9	74522.2	[0.25]	mg/L	13:26:28
1	Al 237.313†	20491.5	21213.3	[2.5]	mg/L	13:26:28
1	As 188.979†	398.7	399.9	[0.5000]	mg/L	13:26:48
1	B 182.528†	232.1	245.8	[0.5000]	mg/L	13:26:48
1	Ba 233.527†	58875.8	60688.6	[0.5000]	mg/L	13:26:28
1	Be 313.107†	233863.5	239320.8	[0.0500]	mg/L	13:26:22
1	Ca 315.886†	788513.3	808099.7	[5.0000]	mg/L	13:26:22
1	Cd 228.802†	11256.2	11432.9	[0.2500]	mg/L	13:26:48
1	Co 228.616†	19844.6	20583.2	[0.5000]	mg/L	13:26:28
1	Cr 267.716†	83127.9	83685.7	[0.5000]	mg/L	13:26:28
1	Cu 324.752†	126141.0	127181.5	[0.5000]	mg/L	13:26:28
1	Fe 234.349†	135916.7	138271.8	[2.5]	mg/L	13:26:28
1	Fe 238.204†	293515.5	300693.6	[2.5]	mg/L	13:26:28
1	Mg 279.077†	126636.3	129474.5	[5.0000]	mg/L	13:26:28
1	Mn 257.610†	458803.5	469720.1	[0.5000]	mg/L	13:26:22
1	Mo 202.031†	7717.3	7892.6	[0.5000]	mg/L	13:26:48
1	Ni 231.604†	17187.8	17620.8	[0.5000]	mg/L	13:26:28
1	P 214.914†	7362.1	7523.0	[5]	mg/L	13:26:48
1	Pb 220.353†	4467.6	4742.0	[0.5000]	mg/L	13:26:48
1	Sb 206.836†	1096.1	1114.7	[0.5000]	mg/L	13:26:48
1	Se 196.026†	883.7	915.1	[1.0000]	mg/L	13:26:48
1	Sn 189.927†	2198.6	2171.7	[0.5000]	mg/L	13:26:48
1	Sr 407.771†	1193423.8	1219645.0	[0.0500]	mg/L	13:26:22
1	Ti 337.279†	414271.4	428030.0	[0.5000]	mg/L	13:26:22
1	Tl 190.801†	490.9	509.7	[0.5000]	mg/L	13:26:48
1	V 292.402†	124143.3	129147.0	[0.5000]	mg/L	13:26:28
1	Zn 213.857†	42610.6	43131.0	[0.5000]	mg/L	13:26:28
2	K 766.490†	48969.0	49450.7	[25.0000]	mg/L	13:26:12
2	Li 670.784†	18453.1	18657.0	[0.5]	mg/L	13:26:12
2	Na 589.592	206173.2	204983.0	[25.000]	mg/L	13:26:12
2	Y 371.029	3756172.5	3756172.5	0.980	mg/L	13:26:55
2	Ag 328.068†	71022.3	75113.4	[0.25]	mg/L	13:27:00
2	Al 237.313†	20828.1	21419.4	[2.5]	mg/L	13:27:00
2	As 188.979†	398.5	397.1	[0.5000]	mg/L	13:27:20
2	B 182.528†	232.8	245.0	[0.5000]	mg/L	13:27:20
2	Ba 233.527†	59656.1	61089.9	[0.5000]	mg/L	13:27:00
2	Be 313.107†	235800.6	239728.1	[0.0500]	mg/L	13:26:55
2	Ca 315.886†	793490.8	807886.7	[5.0000]	mg/L	13:26:55
2	Cd 228.802†	11301.9	11404.0	[0.2500]	mg/L	13:27:20
2	Co 228.616†	20123.2	20734.3	[0.5000]	mg/L	13:27:00

2	Cr 267.716†	84311.1	84335.4	[0.5000]	mg/L	13:27:00
2	Cu 324.752†	127803.0	128031.2	[0.5000]	mg/L	13:27:00
2	Fe 234.349†	138243.3	139734.3	[2.5]	mg/L	13:27:00
2	Fe 238.204†	297882.8	303181.2	[2.5]	mg/L	13:27:00
2	Mg 279.077†	128698.1	130729.1	[5.0000]	mg/L	13:27:00
2	Mn 257.610†	462083.1	469987.5	[0.5000]	mg/L	13:26:55
2	Mo 202.031†	7789.6	7914.6	[0.5000]	mg/L	13:27:20
2	Ni 231.604†	17256.6	17575.7	[0.5000]	mg/L	13:27:00
2	P 214.914†	7393.0	7505.2	[5]	mg/L	13:27:20
2	Pb 220.353†	4481.6	4726.3	[0.5000]	mg/L	13:27:20
2	Sb 206.836†	1092.8	1103.9	[0.5000]	mg/L	13:27:20
2	Se 196.026†	892.0	917.7	[1.0000]	mg/L	13:27:20
2	Sn 189.927†	2210.5	2169.1	[0.5000]	mg/L	13:27:20
2	Sr 407.771†	1201468.7	1219844.9	[0.0500]	mg/L	13:26:55
2	Ti 337.279†	417453.6	428497.1	[0.5000]	mg/L	13:26:55
2	Tl 190.801†	503.7	519.5	[0.5000]	mg/L	13:27:20
2	V 292.402†	125660.3	129862.1	[0.5000]	mg/L	13:27:00
2	Zn 213.857†	43191.3	43437.7	[0.5000]	mg/L	13:27:00

Mean Data: Calib Std 2

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3743900.9	17354.58	0.46%	0.976	mg/L
Ag 328.068†	74817.8	418.09	0.56%	[0.25]	mg/L
Al 237.313†	21316.4	145.73	0.68%	[2.5]	mg/L
As 188.979†	398.5	2.00	0.50%	[0.5000]	mg/L
B 182.528†	245.4	0.60	0.24%	[0.5000]	mg/L
Ba 233.527†	60889.3	283.72	0.47%	[0.5000]	mg/L
Be 313.107†	239524.5	288.01	0.12%	[0.0500]	mg/L
Ca 315.886†	807993.2	150.57	0.02%	[5.0000]	mg/L
Cd 228.802†	11418.5	20.45	0.18%	[0.2500]	mg/L
Co 228.616†	20658.7	106.85	0.52%	[0.5000]	mg/L
Cr 267.716†	84010.6	459.44	0.55%	[0.5000]	mg/L
Cu 324.752†	127606.3	600.82	0.47%	[0.5000]	mg/L
Fe 234.349†	139003.1	1034.19	0.74%	[2.5]	mg/L
Fe 238.204†	301937.4	1758.97	0.58%	[2.5]	mg/L
K 766.490†	49894.3	627.38	1.26%	[25.0000]	mg/L
Li 670.784†	18755.5	139.26	0.74%	[0.5]	mg/L
Mg 279.077†	130101.8	887.09	0.68%	[5.0000]	mg/L
Mn 257.610†	469853.8	189.08	0.04%	[0.5000]	mg/L
Mo 202.031†	7903.6	15.55	0.20%	[0.5000]	mg/L
Na 589.592	205091.0	152.69	0.07%	[25.000]	mg/L
Ni 231.604†	17598.2	31.89	0.18%	[0.5000]	mg/L
P 214.914†	7514.1	12.65	0.17%	[5]	mg/L
Pb 220.353†	4734.1	11.08	0.23%	[0.5000]	mg/L
Sb 206.836†	1109.3	7.59	0.68%	[0.5000]	mg/L
Se 196.026†	916.4	1.83	0.20%	[1.0000]	mg/L
Sn 189.927†	2170.4	1.85	0.09%	[0.5000]	mg/L
Sr 407.771†	1219744.9	141.30	0.01%	[0.0500]	mg/L
Ti 337.279†	428263.5	330.30	0.08%	[0.5000]	mg/L
Tl 190.801†	514.6	6.90	1.34%	[0.5000]	mg/L
V 292.402†	129504.5	505.67	0.39%	[0.5000]	mg/L
Zn 213.857†	43284.4	216.87	0.50%	[0.5000]	mg/L

Sequence No.: 4
Sample ID: Calib Std 3
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 4
Date Collected: 6/12/2006 1:28:59 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: Calib Std 3

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Analysis Time
1	K 766.490†	97509.5	100428.9	[50.0000]	mg/L	13:30:34
1	Li 670.784†	35862.4	36953.6	[1]	mg/L	13:30:34
1	Na 589.592	409582.0	408391.9	[50.000]	mg/L	13:30:34
1	Y 371.029	3703100.0	3703100.0	0.966	mg/L	13:30:51
1	Ag 328.068†	141039.1	148652.2	[0.5]	mg/L	13:30:57
1	Al 237.313†	41151.1	42767.8	[5]	mg/L	13:30:57

1	As 188.979†	798.3	816.9	[1.0000]	mg/L	13:31:18
1	B 182.528†	480.6	504.9	[1.0000]	mg/L	13:31:18
1	Ba 233.527†	116683.4	121012.2	[1.0000]	mg/L	13:30:57
1	Be 313.107†	465976.6	481516.3	[0.1000]	mg/L	13:30:57
1	Ca 315.886†	1570823.5	1624393.3	[10.0000]	mg/L	13:30:51
1	Cd 228.802†	22194.3	22848.0	[0.5000]	mg/L	13:31:18
1	Co 228.616†	40096.7	41710.5	[1.0000]	mg/L	13:31:18
1	Cr 267.716†	163038.1	167087.6	[1.0000]	mg/L	13:30:57
1	Cu 324.752†	249337.8	255745.5	[1.0000]	mg/L	13:30:57
1	Fe 234.349†	266519.9	274582.3	[5.0]	mg/L	13:30:57
1	Fe 238.204†	577478.7	597049.9	[5.0]	mg/L	13:30:57
1	Mg 279.077†	249000.7	257180.6	[10.0000]	mg/L	13:30:57
1	Mn 257.610†	909206.6	939726.9	[1.0000]	mg/L	13:30:51
1	Mo 202.031†	15293.6	15798.6	[1.0000]	mg/L	13:31:18
1	Ni 231.604†	33762.5	34919.3	[1.0000]	mg/L	13:30:57
1	P 214.914†	14747.8	15228.9	[10]	mg/L	13:31:18
1	Pb 220.353†	8956.2	9425.1	[1.0000]	mg/L	13:31:18
1	Sb 206.836†	2161.9	2226.9	[1.0000]	mg/L	13:31:18
1	Se 196.026†	1777.8	1848.0	[2.0000]	mg/L	13:31:18
1	Sn 189.927†	4168.9	4229.3	[1.0000]	mg/L	13:31:18
1	Sr 407.771†	2351860.5	2428608.4	[0.1000]	mg/L	13:30:51
1	Ti 337.279†	831272.8	863098.1	[1.0000]	mg/L	13:30:51
1	Tl 190.801†	1121.0	1166.0	[1.0000]	mg/L	13:31:18
1	V 292.402†	249508.0	259939.9	[1.0000]	mg/L	13:30:57
1	Zn 213.857†	83558.6	85868.4	[1.0000]	mg/L	13:30:57
2	K 766.490†	99200.9	102004.2	[50.0000]	mg/L	13:30:40
2	Li 670.784†	36352.5	37396.5	[1]	mg/L	13:30:40
2	Na 589.592	413424.6	412234.5	[50.000]	mg/L	13:30:40
2	Y 371.029	3709461.0	3709461.0	0.967	mg/L	13:31:26
2	Ag 328.068†	141785.4	149173.1	[0.5]	mg/L	13:31:31
2	Al 237.313†	40941.8	42478.4	[5]	mg/L	13:31:31
2	As 188.979†	800.2	817.4	[1.0000]	mg/L	13:31:52
2	B 182.528†	480.1	503.6	[1.0000]	mg/L	13:31:52
2	Ba 233.527†	116389.3	120501.1	[1.0000]	mg/L	13:31:31
2	Be 313.107†	465845.1	480552.9	[0.1000]	mg/L	13:31:31
2	Ca 315.886†	1573537.0	1624409.0	[10.0000]	mg/L	13:31:26
2	Cd 228.802†	22190.0	22804.1	[0.5000]	mg/L	13:31:52
2	Co 228.616†	40029.5	41569.8	[1.0000]	mg/L	13:31:52
2	Cr 267.716†	162358.1	166095.3	[1.0000]	mg/L	13:31:31
2	Cu 324.752†	247742.3	253653.6	[1.0000]	mg/L	13:31:31
2	Fe 234.349†	266601.6	274193.5	[5.0]	mg/L	13:31:31
2	Fe 238.204†	576712.5	595232.5	[5.0]	mg/L	13:31:31
2	Mg 279.077†	248928.1	256663.4	[10.0000]	mg/L	13:31:31
2	Mn 257.610†	910028.9	938962.5	[1.0000]	mg/L	13:31:26
2	Mo 202.031†	15371.6	15852.1	[1.0000]	mg/L	13:31:52
2	Ni 231.604†	33650.0	34743.1	[1.0000]	mg/L	13:31:31
2	P 214.914†	14767.4	15223.0	[10]	mg/L	13:31:52
2	Pb 220.353†	8981.4	9435.2	[1.0000]	mg/L	13:31:52
2	Sb 206.836†	2162.9	2224.2	[1.0000]	mg/L	13:31:52
2	Se 196.026†	1772.1	1838.9	[2.0000]	mg/L	13:31:52
2	Sn 189.927†	4185.5	4239.1	[1.0000]	mg/L	13:31:52
2	Sr 407.771†	2355588.9	2428286.3	[0.1000]	mg/L	13:31:26
2	Ti 337.279†	832206.1	862586.8	[1.0000]	mg/L	13:31:26
2	Tl 190.801†	1157.4	1201.7	[1.0000]	mg/L	13:31:52
2	V 292.402†	248071.7	258012.3	[1.0000]	mg/L	13:31:31
2	Zn 213.857†	83191.1	85340.2	[1.0000]	mg/L	13:31:31

Mean Data: Calib Std 3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
Y 371.029	3706280.5	4497.91	0.12%	0.967	mg/L
Ag 328.068†	148912.6	368.35	0.25%	[0.5]	mg/L
Al 237.313†	42623.1	204.65	0.48%	[5]	mg/L
As 188.979†	817.2	0.39	0.05%	[1.0000]	mg/L
B 182.528†	504.2	0.94	0.19%	[1.0000]	mg/L
Ba 233.527†	120756.6	361.44	0.30%	[1.0000]	mg/L
Be 313.107†	481034.6	681.19	0.14%	[0.1000]	mg/L
Ca 315.886†	1624401.2	11.08	0.00%	[10.0000]	mg/L
Cd 228.802†	22826.1	31.04	0.14%	[0.5000]	mg/L
Co 228.616†	41640.1	99.48	0.24%	[1.0000]	mg/L
Cr 267.716†	166591.4	701.71	0.42%	[1.0000]	mg/L

Cu 324.752†	254699.5	1479.21	0.58%	[1.0000]	mg/L
Fe 234.349†	274387.9	274.93	0.10%	[5.0]	mg/L
Fe 238.204†	596141.2	1285.07	0.22%	[5.0]	mg/L
K 766.490†	101216.6	1113.84	1.10%	[50.0000]	mg/L
Li 670.784†	37175.1	313.18	0.84%	[1]	mg/L
Mg 279.077†	256922.0	365.72	0.14%	[10.0000]	mg/L
Mn 257.610†	939344.7	540.48	0.06%	[1.0000]	mg/L
Mo 202.031†	15825.3	37.79	0.24%	[1.0000]	mg/L
Na 589.592	410313.2	2717.16	0.66%	[50.000]	mg/L
Ni 231.604†	34831.2	124.66	0.36%	[1.0000]	mg/L
P 214.914†	15226.0	4.16	0.03%	[10]	mg/L
Pb 220.353†	9430.2	7.12	0.08%	[1.0000]	mg/L
Sb 206.836†	2225.5	1.91	0.09%	[1.0000]	mg/L
Se 196.026†	1843.5	6.42	0.35%	[2.0000]	mg/L
Sn 189.927†	4234.2	6.92	0.16%	[1.0000]	mg/L
Sr 407.771†	2428447.3	227.70	0.01%	[0.1000]	mg/L
Ti 337.279†	862842.5	361.57	0.04%	[1.0000]	mg/L
Tl 190.801†	1183.8	25.24	2.13%	[1.0000]	mg/L
V 292.402†	258976.1	1363.06	0.53%	[1.0000]	mg/L
Zn 213.857†	85604.3	373.49	0.44%	[1.0000]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	3	Lin, Calc Int	252.1	297500	0.00000	0.999995	
Al 237.313	3	Lin, Calc Int	-20.9	8530	0.00000	0.999999	
As 188.979	3	Lin, Calc Int	-2.9	816.7	0.00000	0.999917	
B 182.528	3	Lin, Calc Int	-2.7	504.7	0.00000	0.999902	
Ba 233.527	3	Lin, Calc Int	155.8	120800	0.00000	0.999990	
Be 313.107	3	Lin, Calc Int	-287.9	4810000	0.00000	0.999998	
Ca 315.886	3	Lin, Calc Int	-1937.9	162500	0.00000	0.999996	
Cd 228.802	3	Lin, Calc Int	-7.0	45670	0.00000	1.000000	
Co 228.616	3	Lin, Calc Int	-14.1	41600	0.00000	0.999990	
Cr 267.716	3	Lin, Calc Int	304.0	166500	0.00000	0.999990	
Cu 324.752	3	Lin, Calc Int	219.3	254600	0.00000	0.999999	
Fe 234.349	3	Lin, Calc Int	538.9	54890	0.00000	0.999977	
Fe 238.204	3	Lin, Calc Int	1199.7	119200	0.00000	0.999977	
K 766.490	3	Lin, Calc Int	-280.1	2025	0.00000	0.999973	
Li 670.784	3	Lin, Calc Int	34.6	37200	0.00000	0.999988	
Mg 279.077	3	Lin, Calc Int	552.8	25690	0.00000	0.999978	
Mn 257.610	3	Lin, Calc Int	765.3	938600	0.00000	0.999999	
Mo 202.031	3	Lin, Calc Int	-9.6	15830	0.00000	0.999999	
Na 589.592	3	Lin, Calc Int	705.6	8190	0.00000	0.999992	
Ni 231.604	3	Lin, Calc Int	91.4	34800	0.00000	0.999983	
P 214.914	3	Lin, Calc Int	-39.6	1523	0.00000	0.999977	
Pb 220.353	3	Lin, Calc Int	5.5	9431	0.00000	0.999998	
Sb 206.836	3	Lin, Calc Int	-4.4	2229	0.00000	0.999993	
Se 196.026	3	Lin, Calc Int	-4.1	923.0	0.00000	0.999992	
Sn 189.927	3	Lin, Calc Int	35.8	4215	0.00000	0.999869	
Sr 407.771	3	Lin, Calc Int	3349.1	24270000	0.00000	0.999996	
Ti 337.279	3	Lin, Calc Int	-668.2	862400	0.00000	0.999992	
Tl 190.801	3	Lin, Calc Int	-27.6	1186	0.00000	0.997716	
V 292.402	3	Lin, Calc Int	1.7	259000	0.00000	1.000000	
Zn 213.857	3	Lin, Calc Int	129.4	85640	0.00000	0.999983	

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Sequence No.: 5
Sample ID: STD2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/12/2006 1:33:30 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: STD2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	49351.1	50254.8	24.95	mg/L	24.95	mg/L	13:35:08
1	Li 670.784†	18298.8	18653.0	0.5005	mg/L	0.5005	mg/L	13:35:08
1	Na 589.592	206180.3	204990.2	24.94	mg/L	24.94	mg/L	13:35:08
1	Y 371.029	3725558.3	3725558.3	0.972	mg/L			13:35:23
1	Ag 328.068†	70458.1	75128.5	0.2521	mg/L	0.2521	mg/L	13:35:28

1	Al 237.313†	20641.4	21402.0	2.502 mg/L	2.502 mg/L	13:35:28
1	As 188.979†	392.5	394.3	0.4852 mg/L	0.4852 mg/L	13:35:49
1	B 182.528†	237.4	251.6	0.5038 mg/L	0.5038 mg/L	13:35:49
1	Ba 233.527†	59092.7	61010.4	0.5038 mg/L	0.5038 mg/L	13:35:28
1	Be 313.107†	232179.7	237979.5	0.0491 mg/L	0.0491 mg/L	13:35:23
1	Ca 315.886†	780799.9	801481.2	4.947 mg/L	4.947 mg/L	13:35:23
1	Cd 228.802†	11137.5	11329.6	0.2481 mg/L	0.2481 mg/L	13:35:49
1	Co 228.616†	19984.3	20760.2	0.4983 mg/L	0.4983 mg/L	13:35:28
1	Cr 267.716†	83734.7	84449.5	0.5049 mg/L	0.5049 mg/L	13:35:28
1	Cu 324.752†	127221.1	128504.4	0.5047 mg/L	0.5047 mg/L	13:35:28
1	Fe 234.349†	137142.1	139760.6	2.531 mg/L	2.531 mg/L	13:35:28
1	Fe 238.204†	295092.3	302808.0	2.530 mg/L	2.530 mg/L	13:35:28
1	Mg 279.077†	127284.0	130353.2	5.056 mg/L	5.056 mg/L	13:35:28
1	Mn 257.610†	455185.5	466764.6	0.4966 mg/L	0.4966 mg/L	13:35:23
1	Mo 202.031†	7681.3	7868.4	0.4976 mg/L	0.4976 mg/L	13:35:49
1	Ni 231.604†	17121.2	17581.0	0.5032 mg/L	0.5032 mg/L	13:35:28
1	P 214.914†	7306.8	7478.5	4.935 mg/L	4.935 mg/L	13:35:49
1	Pb 220.353†	4434.1	4714.9	0.5005 mg/L	0.5005 mg/L	13:35:49
1	Sb 206.836†	1088.3	1108.5	0.4885 mg/L	0.4885 mg/L	13:35:49
1	Se 196.026†	872.1	904.7	0.9847 mg/L	0.9847 mg/L	13:35:49
1	Sn 189.927†	2154.6	2130.2	0.4976 mg/L	0.4976 mg/L	13:35:49
1	Sr 407.771†	1188382.5	1216454.8	0.0500 mg/L	0.0500 mg/L	13:35:23
1	Ti 337.279†	412578.8	426981.6	0.4959 mg/L	0.4959 mg/L	13:35:23
1	Tl 190.801†	536.6	557.5	0.4960 mg/L	0.4960 mg/L	13:35:49
1	V 292.402†	124756.8	129986.3	0.5089 mg/L	0.5089 mg/L	13:35:28
1	Zn 213.857†	42918.5	43519.3	0.5042 mg/L	0.5042 mg/L	13:35:28
2	K 766.490†	49166.9	49869.0	24.76 mg/L	24.76 mg/L	13:35:13
2	Li 670.784†	18196.8	18475.4	0.4957 mg/L	0.4957 mg/L	13:35:13
2	Na 589.592	204585.3	203395.1	24.75 mg/L	24.75 mg/L	13:35:13
2	Y 371.029	3740062.2	3740062.2	0.975 mg/L		13:35:56
2	Ag 328.068†	69514.7	73880.1	0.2479 mg/L	0.2479 mg/L	13:36:01
2	Al 237.313†	20549.9	21225.7	2.482 mg/L	2.482 mg/L	13:36:01
2	As 188.979†	405.7	406.2	0.4999 mg/L	0.4999 mg/L	13:36:21
2	B 182.528†	245.4	258.9	0.5183 mg/L	0.5183 mg/L	13:36:21
2	Ba 233.527†	58907.5	60584.7	0.5003 mg/L	0.5003 mg/L	13:36:01
2	Be 313.107†	233151.7	238049.3	0.0491 mg/L	0.0491 mg/L	13:35:56
2	Ca 315.886†	786203.2	803904.4	4.962 mg/L	4.962 mg/L	13:35:56
2	Cd 228.802†	11205.5	11354.9	0.2485 mg/L	0.2485 mg/L	13:36:21
2	Co 228.616†	19845.8	20538.4	0.4929 mg/L	0.4929 mg/L	13:36:01
2	Cr 267.716†	82912.5	83272.2	0.4978 mg/L	0.4978 mg/L	13:36:01
2	Cu 324.752†	126243.9	126994.7	0.4988 mg/L	0.4988 mg/L	13:36:01
2	Fe 234.349†	135655.0	137688.6	2.493 mg/L	2.493 mg/L	13:36:01
2	Fe 238.204†	293309.6	299802.5	2.505 mg/L	2.505 mg/L	13:36:01
2	Mg 279.077†	126540.1	129082.5	5.007 mg/L	5.007 mg/L	13:36:01
2	Mn 257.610†	457247.2	467061.6	0.4969 mg/L	0.4969 mg/L	13:35:56
2	Mo 202.031†	7709.3	7866.4	0.4975 mg/L	0.4975 mg/L	13:36:21
2	Ni 231.604†	17191.1	17584.3	0.5033 mg/L	0.5033 mg/L	13:36:01
2	P 214.914†	7327.3	7470.4	4.930 mg/L	4.930 mg/L	13:36:21
2	Pb 220.353†	4436.6	4699.8	0.4989 mg/L	0.4989 mg/L	13:36:21
2	Sb 206.836†	1087.8	1103.6	0.4865 mg/L	0.4865 mg/L	13:36:21
2	Se 196.026†	882.7	912.1	0.9927 mg/L	0.9927 mg/L	13:36:21
2	Sn 189.927†	2166.0	2133.3	0.4983 mg/L	0.4983 mg/L	13:36:21
2	Sr 407.771†	1194500.4	1217983.9	0.0501 mg/L	0.0501 mg/L	13:35:56
2	Ti 337.279†	414066.5	426860.1	0.4957 mg/L	0.4957 mg/L	13:35:56
2	Tl 190.801†	544.9	563.9	0.5014 mg/L	0.5014 mg/L	13:36:21
2	V 292.402†	123912.0	128622.2	0.5037 mg/L	0.5037 mg/L	13:36:01
2	Zn 213.857†	42474.3	42892.6	0.4968 mg/L	0.4968 mg/L	13:36:01

Mean Data: STD2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3732810.2	0.974	mg/L	0.0027				0.27%
Ag 328.068†	74504.3	0.2500	mg/L	0.00297	0.2500	mg/L	0.00297	1.19%
QC value within limits for Ag 328.068 Recovery = 100.01%								
Al 237.313†	21313.9	2.492	mg/L	0.0145	2.492	mg/L	0.0145	0.58%
QC value within limits for Al 237.313 Recovery = 99.69%								
As 188.979†	400.3	0.4925	mg/L	0.01035	0.4925	mg/L	0.01035	2.10%
QC value within limits for As 188.979 Recovery = 98.51%								
B 182.528†	255.2	0.5110	mg/L	0.01022	0.5110	mg/L	0.01022	2.00%
QC value within limits for B 182.528 Recovery = 102.21%								
Ba 233.527†	60797.5	0.5020	mg/L	0.00249	0.5020	mg/L	0.00249	0.50%

QC value within limits for Ba 233.527 Recovery = 100.41%						
Be 313.107†	238014.4	0.0491 mg/L	0.00001	0.0491 mg/L	0.00001	0.02%
QC value within limits for Be 313.107 Recovery = 98.21%						
Ca 315.886†	802692.8	4.954 mg/L	0.0105	4.954 mg/L	0.0105	0.21%
QC value within limits for Ca 315.886 Recovery = 99.08%						
Cd 228.802†	11342.2	0.2483 mg/L	0.00031	0.2483 mg/L	0.00031	0.13%
QC value within limits for Cd 228.802 Recovery = 99.32%						
Co 228.616†	20649.3	0.4956 mg/L	0.00377	0.4956 mg/L	0.00377	0.76%
QC value within limits for Co 228.616 Recovery = 99.12%						
Cr 267.716†	83860.9	0.5014 mg/L	0.00500	0.5014 mg/L	0.00500	1.00%
QC value within limits for Cr 267.716 Recovery = 100.28%						
Cu 324.752†	127749.6	0.5017 mg/L	0.00420	0.5017 mg/L	0.00420	0.84%
QC value within limits for Cu 324.752 Recovery = 100.35%						
Fe 234.349†	138724.6	2.512 mg/L	0.0267	2.512 mg/L	0.0267	1.06%
QC value within limits for Fe 234.349 Recovery = 100.48%						
Fe 238.204†	301305.3	2.517 mg/L	0.0178	2.517 mg/L	0.0178	0.71%
QC value within limits for Fe 238.204 Recovery = 100.69%						
K 766.490†	50061.9	24.86 mg/L	0.135	24.86 mg/L	0.135	0.54%
QC value within limits for K 766.490 Recovery = 99.43%						
Li 670.784†	18564.2	0.4981 mg/L	0.00338	0.4981 mg/L	0.00338	0.68%
QC value within limits for Li 670.784 Recovery = 99.63%						
Mg 279.077†	129717.9	5.032 mg/L	0.0350	5.032 mg/L	0.0350	0.69%
QC value within limits for Mg 279.077 Recovery = 100.63%						
Mn 257.610†	466913.1	0.4967 mg/L	0.00022	0.4967 mg/L	0.00022	0.04%
QC value within limits for Mn 257.610 Recovery = 99.35%						
Mo 202.031†	7867.4	0.4975 mg/L	0.00009	0.4975 mg/L	0.00009	0.02%
QC value within limits for Mo 202.031 Recovery = 99.50%						
Na 589.592	204192.7	24.84 mg/L	0.138	24.84 mg/L	0.138	0.55%
QC value within limits for Na 589.592 Recovery = 99.38%						
Ni 231.604†	17582.7	0.5033 mg/L	0.00006	0.5033 mg/L	0.00006	0.01%
QC value within limits for Ni 231.604 Recovery = 100.65%						
P 214.914†	7474.4	4.933 mg/L	0.0038	4.933 mg/L	0.0038	0.08%
QC value within limits for P 214.914 Recovery = 98.65%						
Pb 220.353†	4707.4	0.4997 mg/L	0.00113	0.4997 mg/L	0.00113	0.23%
QC value within limits for Pb 220.353 Recovery = 99.94%						
Sb 206.836†	1106.0	0.4875 mg/L	0.00146	0.4875 mg/L	0.00146	0.30%
QC value within limits for Sb 206.836 Recovery = 97.50%						
Se 196.026†	908.4	0.9887 mg/L	0.00566	0.9887 mg/L	0.00566	0.57%
QC value within limits for Se 196.026 Recovery = 98.87%						
Sn 189.927†	2131.7	0.4979 mg/L	0.00051	0.4979 mg/L	0.00051	0.10%
QC value within limits for Sn 189.927 Recovery = 99.59%						
Sr 407.771†	1217219.3	0.0500 mg/L	0.00004	0.0500 mg/L	0.00004	0.09%
QC value within limits for Sr 407.771 Recovery = 100.04%						
Ti 337.279†	426920.8	0.4958 mg/L	0.00010	0.4958 mg/L	0.00010	0.02%
QC value within limits for Ti 337.279 Recovery = 99.16%						
Tl 190.801†	560.7	0.4987 mg/L	0.00384	0.4987 mg/L	0.00384	0.77%
QC value within limits for Tl 190.801 Recovery = 99.74%						
V 292.402†	129304.2	0.5063 mg/L	0.00372	0.5063 mg/L	0.00372	0.73%
QC value within limits for V 292.402 Recovery = 101.26%						
Zn 213.857†	43205.9	0.5005 mg/L	0.00518	0.5005 mg/L	0.00518	1.03%
QC value within limits for Zn 213.857 Recovery = 100.10%						

All analyte(s) passed QC.

Sequence No.: 6
Sample ID: ICV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 5
Date Collected: 6/12/2006 1:38:00 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICV

Repl#	Analyte	Net Intensity	Corrected Intensity	Conc.	Calib. Units	Conc.	Sample Units	Analysis Time
1	K 766.490†	49092.7	49777.7	24.72	mg/L	24.72	mg/L	13:39:40
1	Li 670.784†	17967.4	18234.6	0.4893	mg/L	0.4893	mg/L	13:39:40
1	Na 589.592	205723.8	204533.7	24.89	mg/L	24.89	mg/L	13:39:40
1	Y 371.029	3741195.7	3741195.7	0.976	mg/L			13:39:55
1	Ag 328.068†	71369.0	75759.0	0.2542	mg/L	0.2542	mg/L	13:40:00
1	Al 237.313†	20477.9	21145.6	2.472	mg/L	2.472	mg/L	13:40:00
1	As 188.979†	392.3	392.3	0.4828	mg/L	0.4828	mg/L	13:40:21
1	B 182.528†	239.1	252.4	0.5054	mg/L	0.5054	mg/L	13:40:21

1	Ba 233.527†	58505.3	60154.2	0.4967 mg/L	0.4967 mg/L	13:40:00
1	Be 313.107†	237299.1	242227.6	0.0500 mg/L	0.0500 mg/L	13:39:55
1	Ca 315.886†	798838.3	816610.1	5.040 mg/L	5.040 mg/L	13:39:55
1	Cd 228.802†	11363.7	11513.5	0.2521 mg/L	0.2521 mg/L	13:40:21
1	Co 228.616†	19782.6	20467.5	0.4913 mg/L	0.4913 mg/L	13:40:00
1	Cr 267.716†	83938.2	84297.8	0.5040 mg/L	0.5040 mg/L	13:40:00
1	Cu 324.752†	127556.3	128300.6	0.5039 mg/L	0.5039 mg/L	13:40:00
1	Fe 234.349†	138178.5	140232.8	2.539 mg/L	2.539 mg/L	13:40:00
1	Fe 238.204†	298192.9	304716.4	2.546 mg/L	2.546 mg/L	13:40:00
1	Mg 279.077†	125706.9	128189.3	4.972 mg/L	4.972 mg/L	13:40:00
1	Mn 257.610†	460552.3	470307.0	0.5004 mg/L	0.5004 mg/L	13:39:55
1	Mo 202.031†	7675.7	7829.6	0.4951 mg/L	0.4951 mg/L	13:40:21
1	Ni 231.604†	17465.0	17859.7	0.5112 mg/L	0.5112 mg/L	13:40:00
1	P 214.914†	7249.4	7388.2	4.876 mg/L	4.876 mg/L	13:40:21
1	Pb 220.353†	4421.3	4682.8	0.4971 mg/L	0.4971 mg/L	13:40:21
1	Sb 206.836†	1079.3	1094.5	0.4823 mg/L	0.4823 mg/L	13:40:21
1	Se 196.026†	887.8	917.0	0.9980 mg/L	0.9980 mg/L	13:40:21
1	Sn 189.927†	2190.2	2157.4	0.5040 mg/L	0.5040 mg/L	13:40:21
1	Sr 407.771†	1202937.4	1226260.0	0.0504 mg/L	0.0504 mg/L	13:39:55
1	Ti 337.279†	394822.3	407007.8	0.4727 mg/L	0.4727 mg/L	13:40:00
1	Tl 190.801†	530.9	549.4	0.4893 mg/L	0.4893 mg/L	13:40:21
1	V 292.402†	124218.1	128897.4	0.5047 mg/L	0.5047 mg/L	13:40:00
1	Zn 213.857†	43132.6	43554.1	0.5045 mg/L	0.5045 mg/L	13:40:00
2	K 766.490†	49573.6	50285.7	24.97 mg/L	24.97 mg/L	13:39:45
2	Li 670.784†	18118.6	18395.1	0.4936 mg/L	0.4936 mg/L	13:39:45
2	Na 589.592	207375.9	206185.7	25.09 mg/L	25.09 mg/L	13:39:45
2	Y 371.029	3740081.9	3740081.9	0.975 mg/L		13:40:27
2	Ag 328.068†	72370.2	76807.3	0.2578 mg/L	0.2578 mg/L	13:40:33
2	Al 237.313†	20763.9	21445.0	2.507 mg/L	2.507 mg/L	13:40:33
2	As 188.979†	397.3	397.6	0.4893 mg/L	0.4893 mg/L	13:40:53
2	B 182.528†	239.2	252.5	0.5056 mg/L	0.5056 mg/L	13:40:53
2	Ba 233.527†	59036.3	60716.5	0.5014 mg/L	0.5014 mg/L	13:40:33
2	Be 313.107†	238227.8	243252.1	0.0502 mg/L	0.0502 mg/L	13:40:27
2	Ca 315.886†	801446.8	819528.3	5.058 mg/L	5.058 mg/L	13:40:27
2	Cd 228.802†	11354.8	11507.8	0.2519 mg/L	0.2519 mg/L	13:40:53
2	Co 228.616†	20008.9	20705.4	0.4970 mg/L	0.4970 mg/L	13:40:33
2	Cr 267.716†	84968.3	85379.5	0.5105 mg/L	0.5105 mg/L	13:40:33
2	Cu 324.752†	128645.1	129455.8	0.5084 mg/L	0.5084 mg/L	13:40:33
2	Fe 234.349†	139906.6	142046.7	2.572 mg/L	2.572 mg/L	13:40:33
2	Fe 238.204†	301413.2	308108.9	2.574 mg/L	2.574 mg/L	13:40:33
2	Mg 279.077†	127100.2	129656.1	5.029 mg/L	5.029 mg/L	13:40:33
2	Mn 257.610†	462336.4	472276.6	0.5025 mg/L	0.5025 mg/L	13:40:27
2	Mo 202.031†	7706.8	7863.9	0.4973 mg/L	0.4973 mg/L	13:40:53
2	Ni 231.604†	17598.0	18001.5	0.5153 mg/L	0.5153 mg/L	13:40:33
2	P 214.914†	7262.2	7403.6	4.886 mg/L	4.886 mg/L	13:40:53
2	Pb 220.353†	4425.2	4688.1	0.4977 mg/L	0.4977 mg/L	13:40:53
2	Sb 206.836†	1079.7	1095.3	0.4825 mg/L	0.4825 mg/L	13:40:53
2	Se 196.026†	888.7	918.2	0.9993 mg/L	0.9993 mg/L	13:40:53
2	Sn 189.927†	2189.7	2157.5	0.5040 mg/L	0.5040 mg/L	13:40:53
2	Sr 407.771†	1206687.1	1230471.5	0.0506 mg/L	0.0506 mg/L	13:40:27
2	Ti 337.279†	399224.3	411641.3	0.4781 mg/L	0.4781 mg/L	13:40:33
2	Tl 190.801†	549.3	568.4	0.5052 mg/L	0.5052 mg/L	13:40:53
2	V 292.402†	125483.4	130232.6	0.5099 mg/L	0.5099 mg/L	13:40:33
2	Zn 213.857†	43689.6	44138.3	0.5113 mg/L	0.5113 mg/L	13:40:33

Mean Data: ICV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3740638.8	0.976	mg/L	0.0002				0.02%
Ag 328.068†	76283.1	0.2560	mg/L	0.00249	0.2560	mg/L	0.00249	0.97%
QC value within limits for Ag 328.068 Recovery = 102.40%								
Al 237.313†	21295.3	2.490	mg/L	0.0247	2.490	mg/L	0.0247	0.99%
QC value within limits for Al 237.313 Recovery = 99.59%								
As 188.979†	395.0	0.4861	mg/L	0.00457	0.4861	mg/L	0.00457	0.94%
QC value within limits for As 188.979 Recovery = 97.22%								
B 182.528†	252.4	0.5055	mg/L	0.00014	0.5055	mg/L	0.00014	0.03%
QC value within limits for B 182.528 Recovery = 101.10%								
Ba 233.527†	60435.3	0.4990	mg/L	0.00329	0.4990	mg/L	0.00329	0.66%
QC value within limits for Ba 233.527 Recovery = 99.81%								
Be 313.107†	242739.9	0.0501	mg/L	0.00015	0.0501	mg/L	0.00015	0.29%
QC value within limits for Be 313.107 Recovery = 100.22%								

Ca 315.886†	818069.2	5.049 mg/L	0.0127	5.049 mg/L	0.0127	0.25%
QC value within limits for Ca 315.886 Recovery = 100.98%						
Cd 228.802†	11510.7	0.2520 mg/L	0.00009	0.2520 mg/L	0.00009	0.04%
QC value within limits for Cd 228.802 Recovery = 100.80%						
Co 228.616†	20586.5	0.4941 mg/L	0.00404	0.4941 mg/L	0.00404	0.82%
QC value within limits for Co 228.616 Recovery = 98.82%						
Cr 267.716†	84838.6	0.5072 mg/L	0.00459	0.5072 mg/L	0.00459	0.91%
QC value within limits for Cr 267.716 Recovery = 101.45%						
Cu 324.752†	128878.2	0.5062 mg/L	0.00322	0.5062 mg/L	0.00322	0.64%
QC value within limits for Cu 324.752 Recovery = 101.23%						
Fe 234.349†	141139.8	2.556 mg/L	0.0233	2.556 mg/L	0.0233	0.91%
QC value within limits for Fe 234.349 Recovery = 102.23%						
Fe 238.204†	306412.6	2.560 mg/L	0.0201	2.560 mg/L	0.0201	0.79%
QC value within limits for Fe 238.204 Recovery = 102.41%						
K 766.490†	50031.7	24.84 mg/L	0.177	24.84 mg/L	0.177	0.71%
QC value within limits for K 766.490 Recovery = 99.37%						
Li 670.784†	18314.9	0.4914 mg/L	0.00305	0.4914 mg/L	0.00305	0.62%
QC value within limits for Li 670.784 Recovery = 98.29%						
Mg 279.077†	128922.7	5.001 mg/L	0.0404	5.001 mg/L	0.0404	0.81%
QC value within limits for Mg 279.077 Recovery = 100.01%						
Mn 257.610†	471291.8	0.5014 mg/L	0.00148	0.5014 mg/L	0.00148	0.30%
QC value within limits for Mn 257.610 Recovery = 100.28%						
Mo 202.031†	7846.7	0.4962 mg/L	0.00153	0.4962 mg/L	0.00153	0.31%
QC value within limits for Mo 202.031 Recovery = 99.24%						
Na 589.592	205359.7	24.99 mg/L	0.143	24.99 mg/L	0.143	0.57%
QC value within limits for Na 589.592 Recovery = 99.95%						
Ni 231.604†	17930.6	0.5133 mg/L	0.00288	0.5133 mg/L	0.00288	0.56%
QC value within limits for Ni 231.604 Recovery = 102.65%						
P 214.914†	7395.9	4.881 mg/L	0.0071	4.881 mg/L	0.0071	0.15%
QC value within limits for P 214.914 Recovery = 97.62%						
Pb 220.353†	4685.4	0.4974 mg/L	0.00040	0.4974 mg/L	0.00040	0.08%
QC value within limits for Pb 220.353 Recovery = 99.48%						
Sb 206.836†	1094.9	0.4824 mg/L	0.00016	0.4824 mg/L	0.00016	0.03%
QC value within limits for Sb 206.836 Recovery = 96.49%						
Se 196.026†	917.6	0.9986 mg/L	0.00091	0.9986 mg/L	0.00091	0.09%
QC value within limits for Se 196.026 Recovery = 99.86%						
Sn 189.927†	2157.4	0.5040 mg/L	0.00003	0.5040 mg/L	0.00003	0.01%
QC value within limits for Sn 189.927 Recovery = 100.80%						
Sr 407.771†	1228365.8	0.0505 mg/L	0.00012	0.0505 mg/L	0.00012	0.24%
QC value within limits for Sr 407.771 Recovery = 100.96%						
Ti 337.279†	409324.6	0.4754 mg/L	0.00380	0.4754 mg/L	0.00380	0.80%
QC value within limits for Ti 337.279 Recovery = 95.08%						
Tl 190.801†	558.9	0.4973 mg/L	0.01130	0.4973 mg/L	0.01130	2.27%
QC value within limits for Tl 190.801 Recovery = 99.45%						
V 292.402†	129565.0	0.5073 mg/L	0.00366	0.5073 mg/L	0.00366	0.72%
QC value within limits for V 292.402 Recovery = 101.46%						
Zn 213.857†	43846.2	0.5079 mg/L	0.00481	0.5079 mg/L	0.00481	0.95%
QC value within limits for Zn 213.857 Recovery = 101.58%						

All analyte(s) passed QC.

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Sequence No.: 7
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/12/2006 1:42:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	749.1	210.4	0.2422	mg/L	0.2422	mg/L	13:44:05
1	Li 670.784†	165.9	-14.7	-0.0013	mg/L	-0.0013	mg/L	13:44:05
1	Na 589.592	1474.3	284.2	-0.0514	mg/L	-0.0514	mg/L	13:44:05
1	Y 371.029	3836741.2	3836741.2	1.00	mg/L			13:44:18
1	Ag 328.068†	-2135.3	477.7	0.0008	mg/L	0.0008	mg/L	13:44:23
1	Al 237.313†	-157.6	-0.1	0.0025	mg/L	0.0025	mg/L	13:44:44
1	As 188.979†	9.1	-0.7	0.0028	mg/L	0.0028	mg/L	13:44:44
1	B 182.528†	-1.0	6.2	0.0178	mg/L	0.0178	mg/L	13:44:44
1	Ba 233.527†	-193.4	-2.2	-0.0013	mg/L	-0.0013	mg/L	13:44:44
1	Be 313.107†	1084.2	99.3	0.0001	mg/L	0.0001	mg/L	13:44:23
1	Ca 315.886†	1977.4	-156.6	0.0110	mg/L	0.0110	mg/L	13:44:23

1	Cd 228.802†	125.0	-8.4	0.0000 mg/L	0.0000 mg/L	13:44:44
1	Co 228.616†	-189.7	2.3	0.0004 mg/L	0.0004 mg/L	13:44:44
1	Cr 267.716†	1765.5	32.5	-0.0016 mg/L	-0.0016 mg/L	13:44:23
1	Cu 324.752†	2698.9	263.3	0.0002 mg/L	0.0002 mg/L	13:44:23
1	Fe 234.349†	1450.9	61.4	-0.0087 mg/L	-0.0087 mg/L	13:44:23
1	Fe 238.204†	946.2	39.0	-0.0097 mg/L	-0.0097 mg/L	13:44:44
1	Mg 279.077†	665.6	15.3	-0.0209 mg/L	-0.0209 mg/L	13:44:23
1	Mn 257.610†	1598.0	-123.9	-0.0009 mg/L	-0.0009 mg/L	13:44:23
1	Mo 202.031†	46.0	8.7	0.0012 mg/L	0.0012 mg/L	13:44:44
1	Ni 231.604†	46.0	5.5	-0.0025 mg/L	-0.0025 mg/L	13:44:44
1	P 214.914†	49.2	7.3	0.0308 mg/L	0.0308 mg/L	13:44:44
1	Pb 220.353†	-150.8	0.6	-0.0005 mg/L	-0.0005 mg/L	13:44:44
1	Sb 206.836†	12.3	0.6	0.0023 mg/L	0.0023 mg/L	13:44:44
1	Se 196.026†	-11.2	-4.1	0.0001 mg/L	0.0001 mg/L	13:44:44
1	Sn 189.927†	109.7	22.2	-0.0032 mg/L	-0.0032 mg/L	13:44:44
1	Sr 407.771†	6542.3	-112.5	-0.0001 mg/L	-0.0001 mg/L	13:44:18
1	Ti 337.279†	-2325.6	23.6	0.0008 mg/L	0.0008 mg/L	13:44:23
1	Tl 190.801†	24.5	29.8	0.0483 mg/L	0.0483 mg/L	13:44:44
1	V 292.402†	-1609.8	-24.6	-0.0001 mg/L	-0.0001 mg/L	13:44:23
1	Zn 213.857†	672.0	18.3	-0.0013 mg/L	-0.0013 mg/L	13:44:44
2	K 766.490†	656.0	123.7	0.1994 mg/L	0.1994 mg/L	13:44:10
2	Li 670.784†	184.3	5.5	-0.0008 mg/L	-0.0008 mg/L	13:44:10
2	Na 589.592	1561.5	371.4	-0.0408 mg/L	-0.0408 mg/L	13:44:10
2	Y 371.029	3799628.5	3799628.5	0.991 mg/L		13:44:50
2	Ag 328.068†	-2189.8	401.8	0.0005 mg/L	0.0005 mg/L	13:44:55
2	Al 237.313†	-143.1	13.0	0.0040 mg/L	0.0040 mg/L	13:45:15
2	As 188.979†	8.0	-1.7	0.0015 mg/L	0.0015 mg/L	13:45:15
2	B 182.528†	-0.1	7.2	0.0196 mg/L	0.0196 mg/L	13:45:15
2	Ba 233.527†	-186.4	3.0	-0.0013 mg/L	-0.0013 mg/L	13:45:15
2	Be 313.107†	1069.4	95.0	0.0001 mg/L	0.0001 mg/L	13:44:55
2	Ca 315.886†	2044.1	-70.0	0.0115 mg/L	0.0115 mg/L	13:44:55
2	Cd 228.802†	135.4	3.3	0.0002 mg/L	0.0002 mg/L	13:45:15
2	Co 228.616†	-194.7	-4.6	0.0002 mg/L	0.0002 mg/L	13:45:15
2	Cr 267.716†	1759.7	43.9	-0.0016 mg/L	-0.0016 mg/L	13:44:55
2	Cu 324.752†	2639.9	230.1	0.0000 mg/L	0.0000 mg/L	13:44:55
2	Fe 234.349†	1457.8	82.5	-0.0083 mg/L	-0.0083 mg/L	13:44:55
2	Fe 238.204†	950.6	52.8	-0.0096 mg/L	-0.0096 mg/L	13:45:15
2	Mg 279.077†	555.9	-88.9	-0.0250 mg/L	-0.0250 mg/L	13:44:55
2	Mn 257.610†	1581.0	-125.4	-0.0009 mg/L	-0.0009 mg/L	13:44:55
2	Mo 202.031†	35.1	-1.9	0.0005 mg/L	0.0005 mg/L	13:45:15
2	Ni 231.604†	41.0	0.9	-0.0026 mg/L	-0.0026 mg/L	13:45:15
2	P 214.914†	49.4	8.1	0.0313 mg/L	0.0313 mg/L	13:45:15
2	Pb 220.353†	-167.6	-17.8	-0.0025 mg/L	-0.0025 mg/L	13:45:15
2	Sb 206.836†	-3.4	-15.0	-0.0047 mg/L	-0.0047 mg/L	13:45:15
2	Se 196.026†	-6.7	0.4	0.0049 mg/L	0.0049 mg/L	13:45:15
2	Sn 189.927†	109.4	23.0	-0.0030 mg/L	-0.0030 mg/L	13:45:15
2	Sr 407.771†	6519.5	-71.6	-0.0001 mg/L	-0.0001 mg/L	13:44:50
2	Ti 337.279†	-2294.7	32.1	0.0008 mg/L	0.0008 mg/L	13:44:55
2	Tl 190.801†	10.0	15.3	0.0362 mg/L	0.0362 mg/L	13:45:15
2	V 292.402†	-1605.8	-36.3	-0.0001 mg/L	-0.0001 mg/L	13:44:55
2	Zn 213.857†	675.4	28.4	-0.0012 mg/L	-0.0012 mg/L	13:45:15

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3818184.9	0.996	mg/L	0.0068				0.69%
Ag 328.068†	439.7	0.0006	mg/L	0.00018	0.0006	mg/L	0.00018	28.62%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	6.5	0.0033	mg/L	0.00108	0.0033	mg/L	0.00108	33.33%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	-1.2	0.0021	mg/L	0.00088	0.0021	mg/L	0.00088	41.03%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	6.7	0.0187	mg/L	0.00132	0.0187	mg/L	0.00132	7.06%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	0.4	-0.0013	mg/L	0.00003	-0.0013	mg/L	0.00003	2.33%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	97.2	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	0.80%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	-113.3	0.0112	mg/L	0.00038	0.0112	mg/L	0.00038	3.36%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	-2.6	0.0001	mg/L	0.00019	0.0001	mg/L	0.00019	219.11%

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   QC value within limits for Cd 228.802  Recovery = Not calculated
Co 228.616†              -1.1      0.0003 mg/L       0.00012      0.0003 mg/L       0.00012  38.03%
   QC value within limits for Co 228.616  Recovery = Not calculated
Cr 267.716†              38.2     -0.0016 mg/L       0.00005     -0.0016 mg/L       0.00005   3.03%
   QC value within limits for Cr 267.716  Recovery = Not calculated
Cu 324.752†             246.7      0.0001 mg/L       0.00009      0.0001 mg/L       0.00009  86.47%
   QC value within limits for Cu 324.752  Recovery = Not calculated
Fe 234.349†              71.9     -0.0085 mg/L       0.00027     -0.0085 mg/L       0.00027   3.22%
   QC value within limits for Fe 234.349  Recovery = Not calculated
Fe 238.204†              45.9     -0.0097 mg/L       0.00008     -0.0097 mg/L       0.00008   0.84%
   QC value within limits for Fe 238.204  Recovery = Not calculated
K 766.490†              167.0      0.2208 mg/L       0.03028      0.2208 mg/L       0.03028  13.71%
   QC value greater than the upper limit for K 766.490  Recovery = Not calculated
Li 670.784†              -4.6     -0.0011 mg/L       0.00039     -0.0011 mg/L       0.00039  36.55%
   QC value within limits for Li 670.784  Recovery = Not calculated
Mg 279.077†             -36.8     -0.0230 mg/L       0.00287     -0.0230 mg/L       0.00287  12.49%
   QC value less than the lower limit for Mg 279.077  Recovery = Not calculated
Mn 257.610†            -124.6     -0.0009 mg/L       0.00000     -0.0009 mg/L       0.00000   0.12%
   QC value within limits for Mn 257.610  Recovery = Not calculated
Mo 202.031†              3.4       0.0008 mg/L       0.00047      0.0008 mg/L       0.00047  57.47%
   QC value within limits for Mo 202.031  Recovery = Not calculated
Na 589.592              327.8     -0.0461 mg/L       0.00753     -0.0461 mg/L       0.00753  16.32%
   QC value within limits for Na 589.592  Recovery = Not calculated
Ni 231.604†              3.2      -0.0025 mg/L       0.00009     -0.0025 mg/L       0.00009   3.67%
   QC value less than the lower limit for Ni 231.604  Recovery = Not calculated
P 214.914†               7.7       0.0311 mg/L       0.00035      0.0311 mg/L       0.00035   1.14%
   QC value within limits for P 214.914  Recovery = Not calculated
Pb 220.353†              -8.6     -0.0015 mg/L       0.00138     -0.0015 mg/L       0.00138  92.88%
   QC value within limits for Pb 220.353  Recovery = Not calculated
Sb 206.836†              -7.2     -0.0012 mg/L       0.00497     -0.0012 mg/L       0.00497 410.38%
   QC value within limits for Sb 206.836  Recovery = Not calculated
Se 196.026†              -1.8      0.0025 mg/L       0.00338      0.0025 mg/L       0.00338 137.09%
   QC value within limits for Se 196.026  Recovery = Not calculated
Sn 189.927†              22.6     -0.0031 mg/L       0.00014     -0.0031 mg/L       0.00014   4.49%
   QC value within limits for Sn 189.927  Recovery = Not calculated
Sr 407.771†             -92.1     -0.0001 mg/L       0.00000     -0.0001 mg/L       0.00000   0.84%
   QC value within limits for Sr 407.771  Recovery = Not calculated
Ti 337.279†              27.8      0.0008 mg/L       0.00001      0.0008 mg/L       0.00001   0.86%
   QC value within limits for Ti 337.279  Recovery = Not calculated
Tl 190.801†              22.5      0.0423 mg/L       0.00860      0.0423 mg/L       0.00860  20.35%
   QC value greater than the upper limit for Tl 190.801  Recovery = Not calculated
V 292.402†              -30.5     -0.0001 mg/L       0.00004     -0.0001 mg/L       0.00004  36.64%
   QC value within limits for V 292.402  Recovery = Not calculated
Zn 213.857†              23.3     -0.0012 mg/L       0.00008     -0.0012 mg/L       0.00008   6.87%
   QC value within limits for Zn 213.857  Recovery = Not calculated
QC Failed.  Continue with analysis.
```

Sequence No.: 8 | **Autosampler Location: 6**
Sample ID: CRI1 | **Date Collected: 6/12/2006 1:46:53 PM**
Analyst: | **Data Type: Original**
Initial Sample Wt: | **Initial Sample Vol:**
Dilution: | **Sample Prep Vol:**

Replicate Data: CRI1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	5853.7	5356.4	2.783	mg/L	2.783	mg/L	13:48:28
1	Li 670.784†	2178.9	2013.6	0.0532	mg/L	0.0532	mg/L	13:48:28
1	Na 589.592	22911.3	21721.1	2.566	mg/L	2.566	mg/L	13:48:28
1	Y 371.029	3807779.2	3807779.2	0.993	mg/L			13:48:42
1	Ag 328.068†	5349.9	7999.0	0.0261	mg/L	0.0261	mg/L	13:48:47
1	Al 237.313†	2079.1	2251.1	0.2655	mg/L	0.2655	mg/L	13:48:47
1	As 188.979†	51.0	41.6	0.0544	mg/L	0.0544	mg/L	13:49:07
1	B 182.528†	23.6	31.0	0.0668	mg/L	0.0668	mg/L	13:49:07
1	Ba 233.527†	6069.9	6303.5	0.0509	mg/L	0.0509	mg/L	13:48:47
1	Be 313.107†	25601.5	24796.3	0.0052	mg/L	0.0052	mg/L	13:48:47
1	Ca 315.886†	86173.0	84643.0	0.5331	mg/L	0.5331	mg/L	13:48:47
1	Cd 228.802†	1310.6	1186.5	0.0261	mg/L	0.0261	mg/L	13:49:07
1	Co 228.616†	1970.2	2175.9	0.0525	mg/L	0.0525	mg/L	13:49:07
1	Cr 267.716†	10434.0	8775.1	0.0508	mg/L	0.0508	mg/L	13:48:47

1	Cu 324.752†	15774.2	13450.6	0.0521 mg/L	0.0521 mg/L	13:48:47
1	Fe 234.349†	15727.2	14448.6	0.2528 mg/L	0.2528 mg/L	13:48:47
1	Fe 238.204†	32189.3	31507.9	0.2542 mg/L	0.2542 mg/L	13:48:47
1	Mg 279.077†	14171.9	13621.2	0.5091 mg/L	0.5091 mg/L	13:48:47
1	Mn 257.610†	50776.9	49411.3	0.0518 mg/L	0.0518 mg/L	13:48:47
1	Mo 202.031†	833.2	801.7	0.0512 mg/L	0.0512 mg/L	13:49:07
1	Ni 231.604†	1871.2	1843.8	0.0504 mg/L	0.0504 mg/L	13:48:47
1	P 214.914†	793.8	757.5	0.5233 mg/L	0.5233 mg/L	13:49:07
1	Pb 220.353†	324.7	478.3	0.0503 mg/L	0.0503 mg/L	13:49:07
1	Sb 206.836†	114.5	103.7	0.0474 mg/L	0.0474 mg/L	13:49:07
1	Se 196.026†	86.5	94.3	0.1066 mg/L	0.1066 mg/L	13:49:07
1	Sn 189.927†	327.0	241.9	0.0490 mg/L	0.0490 mg/L	13:49:07
1	Sr 407.771†	134853.9	129146.4	0.0052 mg/L	0.0052 mg/L	13:48:42
1	Ti 337.279†	41777.2	44417.2	0.0523 mg/L	0.0523 mg/L	13:48:47
1	Tl 190.801†	52.2	57.8	0.0723 mg/L	0.0723 mg/L	13:49:07
1	V 292.402†	11649.7	13315.4	0.0521 mg/L	0.0521 mg/L	13:48:47
1	Zn 213.857†	5122.2	4504.8	0.0508 mg/L	0.0508 mg/L	13:49:07
2	K 766.490†	5998.6	5502.5	2.855 mg/L	2.855 mg/L	13:48:34
2	Li 670.784†	2154.0	1988.7	0.0525 mg/L	0.0525 mg/L	13:48:34
2	Na 589.592	23183.2	21993.1	2.599 mg/L	2.599 mg/L	13:48:34
2	Y 371.029	3807588.2	3807588.2	0.993 mg/L		13:49:13
2	Ag 328.068†	5241.5	7890.2	0.0257 mg/L	0.0257 mg/L	13:49:19
2	Al 237.313†	2087.3	2259.4	0.2664 mg/L	0.2664 mg/L	13:49:19
2	As 188.979†	46.5	37.1	0.0489 mg/L	0.0489 mg/L	13:49:39
2	B 182.528†	24.1	31.6	0.0680 mg/L	0.0680 mg/L	13:49:39
2	Ba 233.527†	6124.2	6358.5	0.0513 mg/L	0.0513 mg/L	13:49:19
2	Be 313.107†	25736.3	24933.4	0.0052 mg/L	0.0052 mg/L	13:49:19
2	Ca 315.886†	86478.0	84954.5	0.5350 mg/L	0.5350 mg/L	13:49:19
2	Cd 228.802†	1306.3	1182.1	0.0260 mg/L	0.0260 mg/L	13:49:39
2	Co 228.616†	1975.3	2181.1	0.0527 mg/L	0.0527 mg/L	13:49:39
2	Cr 267.716†	10449.3	8791.0	0.0509 mg/L	0.0509 mg/L	13:49:19
2	Cu 324.752†	15720.0	13396.8	0.0518 mg/L	0.0518 mg/L	13:49:19
2	Fe 234.349†	15847.6	14570.6	0.2551 mg/L	0.2551 mg/L	13:49:19
2	Fe 238.204†	32350.3	31671.7	0.2556 mg/L	0.2556 mg/L	13:49:19
2	Mg 279.077†	14217.1	13667.4	0.5109 mg/L	0.5109 mg/L	13:49:19
2	Mn 257.610†	50922.4	49560.3	0.0520 mg/L	0.0520 mg/L	13:49:19
2	Mo 202.031†	830.1	798.6	0.0510 mg/L	0.0510 mg/L	13:49:39
2	Ni 231.604†	1862.1	1834.7	0.0502 mg/L	0.0502 mg/L	13:49:19
2	P 214.914†	786.8	750.5	0.5187 mg/L	0.5187 mg/L	13:49:39
2	Pb 220.353†	308.4	461.8	0.0485 mg/L	0.0485 mg/L	13:49:39
2	Sb 206.836†	123.3	112.5	0.0514 mg/L	0.0514 mg/L	13:49:39
2	Se 196.026†	86.1	93.8	0.1061 mg/L	0.1061 mg/L	13:49:39
2	Sn 189.927†	329.6	244.5	0.0496 mg/L	0.0496 mg/L	13:49:39
2	Sr 407.771†	134931.3	129231.2	0.0052 mg/L	0.0052 mg/L	13:49:13
2	Ti 337.279†	41866.7	44509.4	0.0524 mg/L	0.0524 mg/L	13:49:19
2	Tl 190.801†	52.8	58.4	0.0728 mg/L	0.0728 mg/L	13:49:39
2	V 292.402†	11625.3	13291.4	0.0520 mg/L	0.0520 mg/L	13:49:19
2	Zn 213.857†	5124.3	4507.2	0.0509 mg/L	0.0509 mg/L	13:49:39

Mean Data: CRI1

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3807683.7	0.993	mg/L	0.0000				0.00%
Ag 328.068†	7944.6	0.0259	mg/L	0.00026	0.0259	mg/L	0.00026	1.00%
QC value within limits for Ag 328.068 Recovery = 103.60%								
Al 237.313†	2255.3	0.2660	mg/L	0.00068	0.2660	mg/L	0.00068	0.26%
QC value within limits for Al 237.313 Recovery = 106.38%								
As 188.979†	39.4	0.0516	mg/L	0.00390	0.0516	mg/L	0.00390	7.55%
QC value within limits for As 188.979 Recovery = 103.27%								
B 182.528†	31.3	0.0674	mg/L	0.00082	0.0674	mg/L	0.00082	1.21%
QC value greater than the upper limit for B 182.528 Recovery = 134.80%								
Ba 233.527†	6331.0	0.0511	mg/L	0.00032	0.0511	mg/L	0.00032	0.63%
QC value within limits for Ba 233.527 Recovery = 102.24%								
Be 313.107†	24864.9	0.0052	mg/L	0.00002	0.0052	mg/L	0.00002	0.39%
QC value within limits for Be 313.107 Recovery = 103.65%								
Ca 315.886†	84798.7	0.5340	mg/L	0.00136	0.5340	mg/L	0.00136	0.25%
QC value within limits for Ca 315.886 Recovery = 106.81%								
Cd 228.802†	1184.3	0.0261	mg/L	0.00004	0.0261	mg/L	0.00004	0.17%
QC value within limits for Cd 228.802 Recovery = 104.26%								
Co 228.616†	2178.5	0.0526	mg/L	0.00009	0.0526	mg/L	0.00009	0.17%
QC value within limits for Co 228.616 Recovery = 105.18%								

Cr 267.716†	8783.0	0.0509 mg/L	0.00007	0.0509 mg/L	0.00007	0.13%
QC value within limits for Cr 267.716 Recovery = 101.75%						
Cu 324.752†	13423.7	0.0519 mg/L	0.00015	0.0519 mg/L	0.00015	0.29%
QC value within limits for Cu 324.752 Recovery = 103.90%						
Fe 234.349†	14509.6	0.2540 mg/L	0.00157	0.2540 mg/L	0.00157	0.62%
QC value within limits for Fe 234.349 Recovery = 101.58%						
Fe 238.204†	31589.8	0.2549 mg/L	0.00097	0.2549 mg/L	0.00097	0.38%
QC value within limits for Fe 238.204 Recovery = 101.97%						
K 766.490†	5429.5	2.819 mg/L	0.0510	2.819 mg/L	0.0510	1.81%
QC value within limits for K 766.490 Recovery = 112.77%						
Li 670.784†	2001.2	0.0529 mg/L	0.00047	0.0529 mg/L	0.00047	0.90%
QC value within limits for Li 670.784 Recovery = 105.73%						
Mg 279.077†	13644.3	0.5100 mg/L	0.00127	0.5100 mg/L	0.00127	0.25%
QC value within limits for Mg 279.077 Recovery = 102.00%						
Mn 257.610†	49485.8	0.0519 mg/L	0.00011	0.0519 mg/L	0.00011	0.22%
QC value within limits for Mn 257.610 Recovery = 103.84%						
Mo 202.031†	800.2	0.0511 mg/L	0.00014	0.0511 mg/L	0.00014	0.27%
QC value within limits for Mo 202.031 Recovery = 102.29%						
Na 589.592	21857.1	2.582 mg/L	0.0235	2.582 mg/L	0.0235	0.91%
QC value within limits for Na 589.592 Recovery = 103.30%						
Ni 231.604†	1839.3	0.0503 mg/L	0.00018	0.0503 mg/L	0.00018	0.37%
QC value within limits for Ni 231.604 Recovery = 100.59%						
P 214.914†	754.0	0.5210 mg/L	0.00325	0.5210 mg/L	0.00325	0.62%
QC value within limits for P 214.914 Recovery = 104.19%						
Pb 220.353†	470.1	0.0494 mg/L	0.00123	0.0494 mg/L	0.00123	2.50%
QC value within limits for Pb 220.353 Recovery = 98.77%						
Sb 206.836†	108.1	0.0494 mg/L	0.00280	0.0494 mg/L	0.00280	5.67%
QC value within limits for Sb 206.836 Recovery = 98.80%						
Se 196.026†	94.1	0.1064 mg/L	0.00035	0.1064 mg/L	0.00035	0.33%
QC value within limits for Se 196.026 Recovery = 106.37%						
Sn 189.927†	243.2	0.0493 mg/L	0.00045	0.0493 mg/L	0.00045	0.91%
QC value within limits for Sn 189.927 Recovery = 98.56%						
Sr 407.771†	129188.8	0.0052 mg/L	0.00000	0.0052 mg/L	0.00000	0.05%
QC value within limits for Sr 407.771 Recovery = 103.71%						
Ti 337.279†	44463.3	0.0523 mg/L	0.00008	0.0523 mg/L	0.00008	0.14%
QC value within limits for Ti 337.279 Recovery = 104.66%						
Tl 190.801†	58.1	0.0726 mg/L	0.00036	0.0726 mg/L	0.00036	0.50%
QC value greater than the upper limit for Tl 190.801 Recovery = 145.10%						
V 292.402†	13303.4	0.0521 mg/L	0.00007	0.0521 mg/L	0.00007	0.13%
QC value within limits for V 292.402 Recovery = 104.17%						
Zn 213.857†	4506.0	0.0509 mg/L	0.00002	0.0509 mg/L	0.00002	0.04%
QC value within limits for Zn 213.857 Recovery = 101.72%						

QC Failed. Continue with analysis.

Sequence No.: 9
Sample ID: CRI2
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 7
Date Collected: 6/12/2006 1:51:18 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CRI2

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	2571.5	2070.4	1.161	mg/L	1.161	mg/L	13:52:54
1	Li 670.784†	973.4	807.0	0.0208	mg/L	0.0208	mg/L	13:52:54
1	Na 589.592	9657.5	8467.3	0.9477	mg/L	0.9477	mg/L	13:52:54
1	Y 371.029	3779813.6	3779813.6	0.986	mg/L			13:53:08
1	Ag 328.068†	706.3	3328.2	0.0104	mg/L	0.0104	mg/L	13:53:13
1	Al 237.313†	666.1	833.2	0.0998	mg/L	0.0998	mg/L	13:53:13
1	As 188.979†	25.1	15.7	0.0227	mg/L	0.0227	mg/L	13:53:33
1	B 182.528†	3.6	10.9	0.0270	mg/L	0.0270	mg/L	13:53:33
1	Ba 233.527†	2290.0	2514.2	0.0195	mg/L	0.0195	mg/L	13:53:33
1	Be 313.107†	10722.8	9893.5	0.0021	mg/L	0.0021	mg/L	13:53:13
1	Ca 315.886†	35260.1	33636.7	0.2190	mg/L	0.2190	mg/L	13:53:13
1	Cd 228.802†	593.1	468.4	0.0104	mg/L	0.0104	mg/L	13:53:33
1	Co 228.616†	658.3	859.8	0.0210	mg/L	0.0210	mg/L	13:53:33
1	Cr 267.716†	5208.7	3552.0	0.0195	mg/L	0.0195	mg/L	13:53:13
1	Cu 324.752†	7766.4	5444.7	0.0206	mg/L	0.0206	mg/L	13:53:13
1	Fe 234.349†	7106.1	5820.1	0.0960	mg/L	0.0960	mg/L	13:53:13
1	Fe 238.204†	13283.3	12568.7	0.0954	mg/L	0.0954	mg/L	13:53:13

1	Mg 279.077†	6011.6	5448.6	0.1907 mg/L	0.1907 mg/L	13:53:13
1	Mn 257.610†	21052.5	19635.8	0.0201 mg/L	0.0201 mg/L	13:53:13
1	Mo 202.031†	351.2	318.9	0.0207 mg/L	0.0207 mg/L	13:53:33
1	Ni 231.604†	773.3	744.0	0.0188 mg/L	0.0188 mg/L	13:53:33
1	P 214.914†	341.0	304.1	0.2256 mg/L	0.2256 mg/L	13:53:33
1	Pb 220.353†	15.7	167.2	0.0172 mg/L	0.0172 mg/L	13:53:33
1	Sb 206.836†	41.9	30.8	0.0154 mg/L	0.0154 mg/L	13:53:33
1	Se 196.026†	30.9	38.4	0.0461 mg/L	0.0461 mg/L	13:53:33
1	Sn 189.927†	198.7	114.2	0.0186 mg/L	0.0186 mg/L	13:53:33
1	Sr 407.771†	56840.8	51011.0	0.0020 mg/L	0.0020 mg/L	13:53:08
1	Ti 337.279†	15132.6	17698.9	0.0213 mg/L	0.0213 mg/L	13:53:13
1	Tl 190.801†	24.3	29.9	0.0486 mg/L	0.0486 mg/L	13:53:33
1	V 292.402†	3617.7	5254.2	0.0206 mg/L	0.0206 mg/L	13:53:13
1	Zn 213.857†	2417.4	1799.1	0.0194 mg/L	0.0194 mg/L	13:53:33
2	K 766.490†	2666.2	2176.6	1.213 mg/L	1.213 mg/L	13:53:00
2	Li 670.784†	986.9	824.4	0.0212 mg/L	0.0212 mg/L	13:53:00
2	Na 589.592	9726.4	8536.3	0.9561 mg/L	0.9561 mg/L	13:53:00
2	Y 371.029	3765626.4	3765626.4	0.982 mg/L		13:53:39
2	Ag 328.068†	554.0	3175.8	0.0098 mg/L	0.0098 mg/L	13:53:44
2	Al 237.313†	683.2	853.1	0.1021 mg/L	0.1021 mg/L	13:53:44
2	As 188.979†	23.0	13.7	0.0203 mg/L	0.0203 mg/L	13:54:05
2	B 182.528†	5.8	13.2	0.0315 mg/L	0.0315 mg/L	13:54:05
2	Ba 233.527†	2279.6	2512.4	0.0195 mg/L	0.0195 mg/L	13:54:05
2	Be 313.107†	10645.0	9855.3	0.0021 mg/L	0.0021 mg/L	13:53:44
2	Ca 315.886†	34712.0	33213.3	0.2164 mg/L	0.2164 mg/L	13:53:44
2	Cd 228.802†	588.9	466.4	0.0104 mg/L	0.0104 mg/L	13:54:05
2	Co 228.616†	668.2	872.3	0.0213 mg/L	0.0213 mg/L	13:54:05
2	Cr 267.716†	5133.0	3494.9	0.0191 mg/L	0.0191 mg/L	13:53:44
2	Cu 324.752†	7664.2	5370.2	0.0203 mg/L	0.0203 mg/L	13:53:44
2	Fe 234.349†	7064.1	5804.6	0.0957 mg/L	0.0957 mg/L	13:53:44
2	Fe 238.204†	13172.1	12506.1	0.0948 mg/L	0.0948 mg/L	13:53:44
2	Mg 279.077†	5970.5	5429.7	0.1900 mg/L	0.1900 mg/L	13:53:44
2	Mn 257.610†	20808.8	19468.1	0.0199 mg/L	0.0199 mg/L	13:53:44
2	Mo 202.031†	348.2	317.3	0.0206 mg/L	0.0206 mg/L	13:54:05
2	Ni 231.604†	766.3	739.9	0.0187 mg/L	0.0187 mg/L	13:54:05
2	P 214.914†	333.8	298.0	0.2217 mg/L	0.2217 mg/L	13:54:05
2	Pb 220.353†	14.7	166.2	0.0171 mg/L	0.0171 mg/L	13:54:05
2	Sb 206.836†	50.4	39.7	0.0194 mg/L	0.0194 mg/L	13:54:05
2	Se 196.026†	35.3	43.1	0.0511 mg/L	0.0511 mg/L	13:54:05
2	Sn 189.927†	203.1	119.5	0.0199 mg/L	0.0199 mg/L	13:54:05
2	Sr 407.771†	56765.7	51151.8	0.0020 mg/L	0.0020 mg/L	13:53:39
2	Ti 337.279†	14958.5	17579.5	0.0212 mg/L	0.0212 mg/L	13:53:44
2	Tl 190.801†	27.9	33.7	0.0518 mg/L	0.0518 mg/L	13:54:05
2	V 292.402†	3559.7	5208.9	0.0204 mg/L	0.0204 mg/L	13:53:44
2	Zn 213.857†	2410.9	1801.7	0.0194 mg/L	0.0194 mg/L	13:54:05

Mean Data: CRI2

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3772720.0	0.984	mg/L	0.0026				0.27%
Ag 328.068†	3252.0	0.0101	mg/L	0.00036	0.0101	mg/L	0.00036	3.58%
QC value within limits for Ag 328.068 Recovery = 101.01%								
Al 237.313†	843.1	0.1010	mg/L	0.00166	0.1010	mg/L	0.00166	1.64%
QC value within limits for Al 237.313 Recovery = 100.97%								
As 188.979†	14.7	0.0215	mg/L	0.00175	0.0215	mg/L	0.00175	8.14%
QC value within limits for As 188.979 Recovery = 107.52%								
B 182.528†	12.0	0.0293	mg/L	0.00315	0.0293	mg/L	0.00315	10.75%
QC value greater than the upper limit for B 182.528 Recovery = 146.33%								
Ba 233.527†	2513.3	0.0195	mg/L	0.00001	0.0195	mg/L	0.00001	0.05%
QC value within limits for Ba 233.527 Recovery = 97.59%								
Be 313.107†	9874.4	0.0021	mg/L	0.00001	0.0021	mg/L	0.00001	0.27%
QC value within limits for Be 313.107 Recovery = 104.67%								
Ca 315.886†	33425.0	0.2177	mg/L	0.00184	0.2177	mg/L	0.00184	0.85%
QC value within limits for Ca 315.886 Recovery = 108.86%								
Cd 228.802†	467.4	0.0104	mg/L	0.00002	0.0104	mg/L	0.00002	0.19%
QC value within limits for Cd 228.802 Recovery = 103.73%								
Co 228.616†	866.0	0.0211	mg/L	0.00021	0.0211	mg/L	0.00021	1.01%
QC value within limits for Co 228.616 Recovery = 105.55%								
Cr 267.716†	3523.4	0.0193	mg/L	0.00024	0.0193	mg/L	0.00024	1.26%
QC value within limits for Cr 267.716 Recovery = 96.58%								
Cu 324.752†	5407.4	0.0204	mg/L	0.00021	0.0204	mg/L	0.00021	1.01%

QC value within limits for Cu 324.752 Recovery = 102.05%						
Fe 234.349†	5812.3	0.0959 mg/L	0.00020	0.0959 mg/L	0.00020	0.21%
QC value within limits for Fe 234.349 Recovery = 95.86%						
Fe 238.204†	12537.4	0.0951 mg/L	0.00037	0.0951 mg/L	0.00037	0.39%
QC value within limits for Fe 238.204 Recovery = 95.10%						
K 766.490†	2123.5	1.187 mg/L	0.0371	1.187 mg/L	0.0371	3.13%
QC value within limits for K 766.490 Recovery = 118.68%						
Li 670.784†	815.7	0.0210 mg/L	0.00033	0.0210 mg/L	0.00033	1.58%
QC value within limits for Li 670.784 Recovery = 104.99%						
Mg 279.077†	5439.1	0.1904 mg/L	0.00052	0.1904 mg/L	0.00052	0.27%
QC value within limits for Mg 279.077 Recovery = 95.18%						
Mn 257.610†	19551.9	0.0200 mg/L	0.00013	0.0200 mg/L	0.00013	0.63%
QC value within limits for Mn 257.610 Recovery = 100.10%						
Mo 202.031†	318.1	0.0207 mg/L	0.00007	0.0207 mg/L	0.00007	0.36%
QC value within limits for Mo 202.031 Recovery = 103.48%						
Na 589.592	8501.8	0.9519 mg/L	0.00595	0.9519 mg/L	0.00595	0.63%
QC value within limits for Na 589.592 Recovery = 95.19%						
Ni 231.604†	742.0	0.0187 mg/L	0.00008	0.0187 mg/L	0.00008	0.45%
QC value within limits for Ni 231.604 Recovery = 93.61%						
P 214.914†	301.0	0.2236 mg/L	0.00280	0.2236 mg/L	0.00280	1.25%
QC value within limits for P 214.914 Recovery = 111.82%						
Pb 220.353†	166.7	0.0171 mg/L	0.00008	0.0171 mg/L	0.00008	0.44%
QC value within limits for Pb 220.353 Recovery = 85.72%						
Sb 206.836†	35.3	0.0174 mg/L	0.00281	0.0174 mg/L	0.00281	16.16%
QC value within limits for Sb 206.836 Recovery = 86.97%						
Se 196.026†	40.7	0.0486 mg/L	0.00353	0.0486 mg/L	0.00353	7.27%
QC value within limits for Se 196.026 Recovery = 121.52%						
Sn 189.927†	116.8	0.0193 mg/L	0.00088	0.0193 mg/L	0.00088	4.58%
QC value within limits for Sn 189.927 Recovery = 96.30%						
Sr 407.771†	51081.4	0.0020 mg/L	0.00000	0.0020 mg/L	0.00000	0.21%
QC value within limits for Sr 407.771 Recovery = 98.34%						
Ti 337.279†	17639.2	0.0212 mg/L	0.00010	0.0212 mg/L	0.00010	0.46%
QC value within limits for Ti 337.279 Recovery = 106.14%						
Tl 190.801†	31.8	0.0502 mg/L	0.00227	0.0502 mg/L	0.00227	4.52%
QC value greater than the upper limit for Tl 190.801 Recovery = 250.96%						
V 292.402†	5231.6	0.0205 mg/L	0.00012	0.0205 mg/L	0.00012	0.61%
QC value within limits for V 292.402 Recovery = 102.44%						
Zn 213.857†	1800.4	0.0194 mg/L	0.00002	0.0194 mg/L	0.00002	0.11%
QC value within limits for Zn 213.857 Recovery = 97.12%						
QC Failed. Continue with analysis.						

Sequence No.: 10 **Autosampler Location: 8**
Sample ID: CRI3 **Date Collected: 6/12/2006 1:55:45 PM**
Analyst: **Data Type: Original**
Initial Sample Wt: **Initial Sample Vol:**
Dilution: **Sample Prep Vol:**

Replicate Data: CRI3

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	1605.3	1079.8	0.6715	mg/L	0.6715	mg/L	13:57:21
1	Li 670.784†	542.5	366.3	0.0089	mg/L	0.0089	mg/L	13:57:21
1	Na 589.592	5135.5	3945.3	0.3956	mg/L	0.3956	mg/L	13:57:21
1	Y 371.029	3804185.6	3804185.6	0.992	mg/L			13:57:35
1	Ag 328.068†	-979.2	1624.7	0.0046	mg/L	0.0046	mg/L	13:57:40
1	Al 237.313†	251.2	410.7	0.0505	mg/L	0.0505	mg/L	13:58:00
1	As 188.979†	15.7	6.1	0.0110	mg/L	0.0110	mg/L	13:58:00
1	B 182.528†	1.4	8.7	0.0226	mg/L	0.0226	mg/L	13:58:00
1	Ba 233.527†	1017.4	1216.6	0.0088	mg/L	0.0088	mg/L	13:58:00
1	Be 313.107†	5639.4	4700.0	0.0010	mg/L	0.0010	mg/L	13:57:40
1	Ca 315.886†	18449.1	16463.0	0.1133	mg/L	0.1133	mg/L	13:57:40
1	Cd 228.802†	355.1	224.6	0.0051	mg/L	0.0051	mg/L	13:58:00
1	Co 228.616†	220.1	413.8	0.0103	mg/L	0.0103	mg/L	13:58:00
1	Cr 267.716†	3352.7	1647.4	0.0081	mg/L	0.0081	mg/L	13:57:40
1	Cu 324.752†	4923.8	2528.9	0.0091	mg/L	0.0091	mg/L	13:57:40
1	Fe 234.349†	4141.6	2785.9	0.0408	mg/L	0.0408	mg/L	13:57:40
1	Fe 238.204†	6888.7	6036.8	0.0406	mg/L	0.0406	mg/L	13:57:40
1	Mg 279.077†	3160.6	2535.8	0.0773	mg/L	0.0773	mg/L	13:57:40
1	Mn 257.610†	10908.5	9274.3	0.0091	mg/L	0.0091	mg/L	13:57:40
1	Mo 202.031†	191.7	155.9	0.0105	mg/L	0.0105	mg/L	13:58:00

1	Ni 231.604†	402.9	365.7	0.0079 mg/L	0.0079 mg/L	13:58:00
1	P 214.914†	193.7	153.4	0.1267 mg/L	0.1267 mg/L	13:58:00
1	Pb 220.353†	-60.6	90.2	0.0090 mg/L	0.0090 mg/L	13:58:00
1	Sb 206.836†	34.8	23.5	0.0123 mg/L	0.0123 mg/L	13:58:00
1	Se 196.026†	7.3	14.5	0.0202 mg/L	0.0202 mg/L	13:58:00
1	Sn 189.927†	136.8	50.5	0.0035 mg/L	0.0035 mg/L	13:58:00
1	Sr 407.771†	31439.4	25038.4	0.0009 mg/L	0.0009 mg/L	13:57:35
1	Ti 337.279†	6298.6	8696.4	0.0109 mg/L	0.0109 mg/L	13:57:40
1	Tl 190.801†	-2.7	2.5	0.0254 mg/L	0.0254 mg/L	13:58:00
1	V 292.402†	909.9	2501.3	0.0098 mg/L	0.0098 mg/L	13:57:40
1	Zn 213.857†	1519.9	878.7	0.0087 mg/L	0.0087 mg/L	13:58:00
2	K 766.490†	1580.3	1056.6	0.6600 mg/L	0.6600 mg/L	13:57:27
2	Li 670.784†	529.1	353.5	0.0086 mg/L	0.0086 mg/L	13:57:27
2	Na 589.592	5282.0	4091.9	0.4134 mg/L	0.4134 mg/L	13:57:27
2	Y 371.029	3799373.9	3799373.9	0.991 mg/L		13:58:06
2	Ag 328.068†	-902.2	1701.1	0.0049 mg/L	0.0049 mg/L	13:58:11
2	Al 237.313†	288.5	448.6	0.0549 mg/L	0.0549 mg/L	13:58:32
2	As 188.979†	16.6	7.0	0.0121 mg/L	0.0121 mg/L	13:58:32
2	B 182.528†	-1.1	6.2	0.0176 mg/L	0.0176 mg/L	13:58:32
2	Ba 233.527†	1021.1	1221.6	0.0088 mg/L	0.0088 mg/L	13:58:32
2	Be 313.107†	5777.6	4846.7	0.0011 mg/L	0.0011 mg/L	13:58:11
2	Ca 315.886†	18315.2	16351.4	0.1126 mg/L	0.1126 mg/L	13:58:11
2	Cd 228.802†	343.4	213.3	0.0048 mg/L	0.0048 mg/L	13:58:32
2	Co 228.616†	224.2	418.1	0.0104 mg/L	0.0104 mg/L	13:58:32
2	Cr 267.716†	3267.7	1565.9	0.0076 mg/L	0.0076 mg/L	13:58:11
2	Cu 324.752†	4923.0	2534.5	0.0091 mg/L	0.0091 mg/L	13:58:11
2	Fe 234.349†	4209.6	2859.7	0.0422 mg/L	0.0422 mg/L	13:58:11
2	Fe 238.204†	6835.9	5992.3	0.0402 mg/L	0.0402 mg/L	13:58:11
2	Mg 279.077†	3211.2	2591.0	0.0794 mg/L	0.0794 mg/L	13:58:11
2	Mn 257.610†	10818.5	9197.4	0.0090 mg/L	0.0090 mg/L	13:58:11
2	Mo 202.031†	181.8	146.1	0.0098 mg/L	0.0098 mg/L	13:58:32
2	Ni 231.604†	394.8	358.0	0.0077 mg/L	0.0077 mg/L	13:58:32
2	P 214.914†	187.6	147.5	0.1229 mg/L	0.1229 mg/L	13:58:32
2	Pb 220.353†	-67.2	83.4	0.0083 mg/L	0.0083 mg/L	13:58:32
2	Sb 206.836†	19.6	8.1	0.0055 mg/L	0.0055 mg/L	13:58:32
2	Se 196.026†	15.1	22.4	0.0288 mg/L	0.0288 mg/L	13:58:32
2	Sn 189.927†	136.8	50.6	0.0035 mg/L	0.0035 mg/L	13:58:32
2	Sr 407.771†	31417.2	25056.1	0.0009 mg/L	0.0009 mg/L	13:58:06
2	Ti 337.279†	6078.3	8482.1	0.0106 mg/L	0.0106 mg/L	13:58:11
2	Tl 190.801†	7.6	13.0	0.0342 mg/L	0.0342 mg/L	13:58:32
2	V 292.402†	1000.1	2593.6	0.0101 mg/L	0.0101 mg/L	13:58:11
2	Zn 213.857†	1525.2	886.0	0.0088 mg/L	0.0088 mg/L	13:58:32

Mean Data: CRI3

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3801779.7	0.991	mg/L	0.0009				0.09%
Ag 328.068†	1662.9	0.0048	mg/L	0.00018	0.0048	mg/L	0.00018	3.82%
QC value within limits for Ag 328.068 Recovery = 95.01%								
Al 237.313†	429.6	0.0527	mg/L	0.00314	0.0527	mg/L	0.00314	5.95%
QC value within limits for Al 237.313 Recovery = 105.36%								
As 188.979†	6.6	0.0116	mg/L	0.00076	0.0116	mg/L	0.00076	6.56%
QC value within limits for As 188.979 Recovery = 115.54%								
B 182.528†	7.4	0.0201	mg/L	0.00353	0.0201	mg/L	0.00353	17.56%
QC value greater than the upper limit for B 182.528 Recovery = 201.00%								
Ba 233.527†	1219.1	0.0088	mg/L	0.00003	0.0088	mg/L	0.00003	0.33%
QC value within limits for Ba 233.527 Recovery = 88.03%								
Be 313.107†	4773.3	0.0010	mg/L	0.00002	0.0010	mg/L	0.00002	2.08%
QC value within limits for Be 313.107 Recovery = 104.19%								
Ca 315.886†	16407.2	0.1129	mg/L	0.00048	0.1129	mg/L	0.00048	0.43%
QC value within limits for Ca 315.886 Recovery = 112.95%								
Cd 228.802†	218.9	0.0049	mg/L	0.00018	0.0049	mg/L	0.00018	3.62%
QC value within limits for Cd 228.802 Recovery = 98.67%								
Co 228.616†	416.0	0.0103	mg/L	0.00007	0.0103	mg/L	0.00007	0.72%
QC value within limits for Co 228.616 Recovery = 103.15%								
Cr 267.716†	1606.7	0.0078	mg/L	0.00035	0.0078	mg/L	0.00035	4.43%
QC value within limits for Cr 267.716 Recovery = 78.15%								
Cu 324.752†	2531.7	0.0091	mg/L	0.00002	0.0091	mg/L	0.00002	0.17%
QC value within limits for Cu 324.752 Recovery = 90.98%								
Fe 234.349†	2822.8	0.0415	mg/L	0.00095	0.0415	mg/L	0.00095	2.29%
QC value within limits for Fe 234.349 Recovery = 83.04%								

Fe 238.204†	6014.6	0.0404 mg/L	0.00026	0.0404 mg/L	0.00026	0.65%
QC value within limits for Fe 238.204 Recovery = 80.78%						
K 766.490†	1068.2	0.6658 mg/L	0.00810	0.6658 mg/L	0.00810	1.22%
QC value greater than the upper limit for K 766.490 Recovery = 133.15%						
Li 670.784†	359.9	0.0087 mg/L	0.00024	0.0087 mg/L	0.00024	2.78%
QC value within limits for Li 670.784 Recovery = 87.45%						
Mg 279.077†	2563.4	0.0783 mg/L	0.00152	0.0783 mg/L	0.00152	1.94%
QC value within limits for Mg 279.077 Recovery = 78.34%						
Mn 257.610†	9235.8	0.0090 mg/L	0.00006	0.0090 mg/L	0.00006	0.64%
QC value within limits for Mn 257.610 Recovery = 90.27%						
Mo 202.031†	151.0	0.0101 mg/L	0.00044	0.0101 mg/L	0.00044	4.32%
QC value within limits for Mo 202.031 Recovery = 101.43%						
Na 589.592	4018.6	0.4045 mg/L	0.01265	0.4045 mg/L	0.01265	3.13%
QC value within limits for Na 589.592 Recovery = 80.90%						
Ni 231.604†	361.8	0.0078 mg/L	0.00016	0.0078 mg/L	0.00016	2.01%
QC value within limits for Ni 231.604 Recovery = 77.85%						
P 214.914†	150.5	0.1248 mg/L	0.00271	0.1248 mg/L	0.00271	2.17%
QC value within limits for P 214.914 Recovery = 124.78%						
Pb 220.353†	86.8	0.0086 mg/L	0.00051	0.0086 mg/L	0.00051	5.84%
QC value within limits for Pb 220.353 Recovery = 86.49%						
Sb 206.836†	15.8	0.0089 mg/L	0.00485	0.0089 mg/L	0.00485	54.54%
QC value within limits for Sb 206.836 Recovery = 89.00%						
Se 196.026†	18.5	0.0245 mg/L	0.00608	0.0245 mg/L	0.00608	24.86%
QC value within limits for Se 196.026 Recovery = 122.27%						
Sn 189.927†	50.5	0.0035 mg/L	0.00003	0.0035 mg/L	0.00003	0.87%
QC value less than the lower limit for Sn 189.927 Recovery = 35.19%						
Sr 407.771†	25047.2	0.0009 mg/L	0.00000	0.0009 mg/L	0.00000	0.06%
QC value within limits for Sr 407.771 Recovery = 89.41%						
Ti 337.279†	8589.3	0.0107 mg/L	0.00018	0.0107 mg/L	0.00018	1.64%
QC value within limits for Ti 337.279 Recovery = 107.34%						
Tl 190.801†	7.7	0.0298 mg/L	0.00622	0.0298 mg/L	0.00622	20.85%
QC value greater than the upper limit for Tl 190.801 Recovery = 298.20%						
V 292.402†	2547.4	0.0100 mg/L	0.00024	0.0100 mg/L	0.00024	2.45%
QC value within limits for V 292.402 Recovery = 99.76%						
Zn 213.857†	882.3	0.0088 mg/L	0.00006	0.0088 mg/L	0.00006	0.70%
QC value within limits for Zn 213.857 Recovery = 87.59%						

QC Failed. Continue with analysis.

Sequence No.: 11
Sample ID: ICSA
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 160
Date Collected: 6/12/2006 2:00:12 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSA

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	688.4	227.7	0.2507	mg/L	0.2507	mg/L	14:01:49
1	Li 670.784†	180.9	20.8	-0.0004	mg/L	-0.0004	mg/L	14:01:49
1	Na 589.592	1830.4	640.3	-0.0080	mg/L	-0.0080	mg/L	14:01:49
1	Y 371.029	3446332.1	3446332.1	0.899	mg/L			14:02:16
1	Ag 328.068†	-2927.8	-645.8	0.0007	mg/L	0.0007	mg/L	14:02:21
1	Al 237.313†	1979976.1	2203093.6	257.9	mg/L	257.9	mg/L	14:02:16
1	As 188.979†	7.7	-1.2	0.0021	mg/L	0.0021	mg/L	14:02:42
1	B 182.528†	4.6	12.3	0.0299	mg/L	0.0299	mg/L	14:02:42
1	Ba 233.527†	62.2	260.4	0.0009	mg/L	0.0009	mg/L	14:02:42
1	Be 313.107†	-1450.5	-2598.1	0.0001	mg/L	0.0001	mg/L	14:02:21
1	Ca 315.886†	35363697.2	39343779.2	242.1	mg/L	242.1	mg/L	14:02:09
1	Cd 228.802†	102.9	-18.8	0.0004	mg/L	0.0004	mg/L	14:02:42
1	Co 228.616†	-150.9	24.0	0.0009	mg/L	0.0009	mg/L	14:02:42
1	Cr 267.716†	848.9	-787.4	-0.0010	mg/L	-0.0010	mg/L	14:02:21
1	Cu 324.752†	354.0	-2040.2	0.0079	mg/L	0.0079	mg/L	14:02:21
1	Fe 234.349†	4601503.8	5118278.6	93.23	mg/L	93.23	mg/L	14:02:16
1	Fe 238.204†	9480711.0	10547402.9	88.44	mg/L	88.44	mg/L	14:02:09
1	Mg 279.077†	5531823.9	6154098.4	239.5	mg/L	239.5	mg/L	14:02:16
1	Mn 257.610†	6265.5	5250.2	0.0048	mg/L	0.0048	mg/L	14:02:21
1	Mo 202.031†	214.1	200.9	0.0133	mg/L	0.0133	mg/L	14:02:42
1	Ni 231.604†	80.4	49.0	-0.0012	mg/L	-0.0012	mg/L	14:02:42
1	P 214.914†	-89.2	-141.0	-0.0666	mg/L	-0.0666	mg/L	14:02:42
1	Pb 220.353†	-610.1	-527.6	-0.0095	mg/L	-0.0095	mg/L	14:02:42

1	Sb 206.836†	11.4	1.1	0.0026 mg/L	0.0026 mg/L	14:02:42
1	Se 196.026†	20.3	29.7	0.0367 mg/L	0.0367 mg/L	14:02:42
1	Sn 189.927†	-14.4	-103.4	-0.0293 mg/L	-0.0293 mg/L	14:02:42
1	Sr 407.771†	23994.5	20045.6	0.0007 mg/L	0.0007 mg/L	14:02:21
1	Ti 337.279†	2107.8	4692.9	0.0062 mg/L	0.0062 mg/L	14:02:21
1	Tl 190.801†	65.6	78.2	0.0893 mg/L	0.0893 mg/L	14:02:42
1	V 292.402†	1354.3	3091.0	0.0000 mg/L	0.0000 mg/L	14:02:21
1	Zn 213.857†	2529.6	2161.2	0.0154 mg/L	0.0154 mg/L	14:02:42
2	K 766.490†	709.5	252.1	0.2628 mg/L	0.2628 mg/L	14:01:55
2	Li 670.784†	167.3	5.9	-0.0008 mg/L	-0.0008 mg/L	14:01:55
2	Na 589.592	1970.1	779.9	0.0091 mg/L	0.0091 mg/L	14:01:55
2	Y 371.029	3441930.4	3441930.4	0.898 mg/L		14:03:00
2	Ag 328.068†	-2913.4	-633.9	0.0008 mg/L	0.0008 mg/L	14:03:06
2	Al 237.313†	1972789.7	2197904.8	257.3 mg/L	257.3 mg/L	14:03:00
2	As 188.979†	5.3	-3.9	-0.0012 mg/L	-0.0012 mg/L	14:03:26
2	B 182.528†	6.7	14.7	0.0346 mg/L	0.0346 mg/L	14:03:26
2	Ba 233.527†	87.7	288.8	0.0011 mg/L	0.0011 mg/L	14:03:26
2	Be 313.107†	-1469.8	-2621.7	0.0001 mg/L	0.0001 mg/L	14:03:06
2	Ca 315.886†	35473638.9	39516574.2	243.2 mg/L	243.2 mg/L	14:02:53
2	Cd 228.802†	103.4	-18.1	0.0004 mg/L	0.0004 mg/L	14:03:26
2	Co 228.616†	-135.1	41.4	0.0013 mg/L	0.0013 mg/L	14:03:26
2	Cr 267.716†	922.4	-704.3	-0.0005 mg/L	-0.0005 mg/L	14:03:06
2	Cu 324.752†	401.3	-1986.9	0.0081 mg/L	0.0081 mg/L	14:03:06
2	Fe 234.349†	4584583.5	5105976.1	93.01 mg/L	93.01 mg/L	14:03:00
2	Fe 238.204†	9505532.2	10588543.9	88.78 mg/L	88.78 mg/L	14:02:53
2	Mg 279.077†	5512182.6	6140088.3	238.9 mg/L	238.9 mg/L	14:03:00
2	Mn 257.610†	6270.5	5264.7	0.0048 mg/L	0.0048 mg/L	14:03:06
2	Mo 202.031†	216.3	203.6	0.0135 mg/L	0.0135 mg/L	14:03:26
2	Ni 231.604†	86.7	56.1	-0.0010 mg/L	-0.0010 mg/L	14:03:26
2	P 214.914†	-94.4	-147.0	-0.0705 mg/L	-0.0705 mg/L	14:03:26
2	Pb 220.353†	-603.1	-520.6	-0.0089 mg/L	-0.0089 mg/L	14:03:26
2	Sb 206.836†	-4.1	-16.2	-0.0052 mg/L	-0.0052 mg/L	14:03:26
2	Se 196.026†	14.1	22.9	0.0292 mg/L	0.0292 mg/L	14:03:26
2	Sn 189.927†	-31.8	-122.8	-0.0339 mg/L	-0.0339 mg/L	14:03:26
2	Sr 407.771†	23993.5	20078.6	0.0007 mg/L	0.0007 mg/L	14:03:06
2	Ti 337.279†	2217.4	4818.0	0.0064 mg/L	0.0064 mg/L	14:03:06
2	Tl 190.801†	59.7	71.7	0.0838 mg/L	0.0838 mg/L	14:03:26
2	V 292.402†	1266.5	2995.2	-0.0003 mg/L	-0.0003 mg/L	14:03:06
2	Zn 213.857†	2549.6	2187.1	0.0157 mg/L	0.0157 mg/L	14:03:26

Mean Data: ICSA

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3444131.3	0.898	mg/L	0.0008				0.09%
Ag 328.068†	-639.9	0.0007	mg/L	0.00002	0.0007	mg/L	0.00002	2.98%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	2200499.2	257.6	mg/L	0.43	257.6	mg/L	0.43	0.17%
QC value within limits for Al 237.313 Recovery = 103.03%								
As 188.979†	-2.5	0.0005	mg/L	0.00235	0.0005	mg/L	0.00235	514.76%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	13.5	0.0322	mg/L	0.00332	0.0322	mg/L	0.00332	10.30%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	274.6	0.0010	mg/L	0.00017	0.0010	mg/L	0.00017	16.96%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	-2609.9	0.0001	mg/L	0.00000	0.0001	mg/L	0.00000	6.65%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	39430176.7	242.7	mg/L	0.75	242.7	mg/L	0.75	0.31%
QC value within limits for Ca 315.886 Recovery = 97.06%								
Cd 228.802†	-18.4	0.0004	mg/L	0.00002	0.0004	mg/L	0.00002	6.11%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	32.7	0.0011	mg/L	0.00030	0.0011	mg/L	0.00030	26.64%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	-745.8	-0.0007	mg/L	0.00034	-0.0007	mg/L	0.00034	47.27%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	-2013.5	0.0080	mg/L	0.00012	0.0080	mg/L	0.00012	1.50%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	5112127.3	93.12	mg/L	0.158	93.12	mg/L	0.158	0.17%
QC value within limits for Fe 234.349 Recovery = 93.12%								
Fe 238.204†	10567973.4	88.61	mg/L	0.244	88.61	mg/L	0.244	0.28%
QC value within limits for Fe 238.204 Recovery = 88.61%								
K 766.490†	239.9	0.2568	mg/L	0.00855	0.2568	mg/L	0.00855	3.33%

QC value within limits for K 766.490 Recovery = Not calculated

Li 670.784†		13.3	-0.0006 mg/L		0.00028	-0.0006 mg/L	0.00028	49.77%

QC value within limits for Li 670.784 Recovery = Not calculated

Mg 279.077†		6147093.4	239.2 mg/L		0.39	239.2 mg/L	0.39	0.16%

QC value within limits for Mg 279.077 Recovery = 95.68%

Mn 257.610†		5257.4	0.0048 mg/L		0.00001	0.0048 mg/L	0.00001	0.23%

QC value within limits for Mn 257.610 Recovery = Not calculated

Mo 202.031†		202.2	0.0134 mg/L		0.00012	0.0134 mg/L	0.00012	0.90%

QC value within limits for Mo 202.031 Recovery = Not calculated

Na 589.592		710.1	0.0005 mg/L		0.01206	0.0005 mg/L	0.01206	>999.9%

QC value within limits for Na 589.592 Recovery = Not calculated

Ni 231.604†		52.6	-0.0011 mg/L		0.00015	-0.0011 mg/L	0.00015	13.11%

QC value within limits for Ni 231.604 Recovery = Not calculated

P 214.914†		-144.0	-0.0685 mg/L		0.00276	-0.0685 mg/L	0.00276	4.03%

QC value within limits for P 214.914 Recovery = Not calculated

Pb 220.353†		-524.1	-0.0092 mg/L		0.00044	-0.0092 mg/L	0.00044	4.81%

QC value within limits for Pb 220.353 Recovery = Not calculated

Sb 206.836†		-7.6	-0.0013 mg/L		0.00550	-0.0013 mg/L	0.00550	424.05%

QC value within limits for Sb 206.836 Recovery = Not calculated

Se 196.026†		26.3	0.0330 mg/L		0.00528	0.0330 mg/L	0.00528	16.02%

QC value within limits for Se 196.026 Recovery = Not calculated

Sn 189.927†		-113.1	-0.0316 mg/L		0.00327	-0.0316 mg/L	0.00327	10.34%

QC value within limits for Sn 189.927 Recovery = Not calculated

Sr 407.771†		20062.1	0.0007 mg/L		0.00000	0.0007 mg/L	0.00000	0.14%

QC value within limits for Sr 407.771 Recovery = Not calculated

Ti 337.279†		4755.5	0.0063 mg/L		0.00010	0.0063 mg/L	0.00010	1.63%

QC value within limits for Ti 337.279 Recovery = Not calculated

Tl 190.801†		75.0	0.0865 mg/L		0.00388	0.0865 mg/L	0.00388	4.48%

QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated

V 292.402†		3043.1	-0.0001 mg/L		0.00024	-0.0001 mg/L	0.00024	172.60%

QC value within limits for V 292.402 Recovery = Not calculated

Zn 213.857†		2174.1	0.0155 mg/L		0.00023	0.0155 mg/L	0.00023	1.46%

QC value within limits for Zn 213.857 Recovery = Not calculated

QC Failed. Continue with analysis.

Sequence No.: 12
Sample ID: ICSAB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 159
Date Collected: 6/12/2006 2:05:04 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICSAB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	726.2	275.0	0.2741	mg/L	0.2741	mg/L	14:06:38
1	Li 670.784†	170.0	9.9	-0.0007	mg/L	-0.0007	mg/L	14:06:38
1	Na 589.592	2046.6	856.5	0.0184	mg/L	0.0184	mg/L	14:06:38
1	Y 371.029	3423851.7	3423851.7	0.893	mg/L			14:07:06
1	Ag 328.068†	137764.0	156895.3	0.5303	mg/L	0.5303	mg/L	14:07:11
1	Al 237.313†	1970109.3	2206507.7	258.3	mg/L	258.3	mg/L	14:07:06
1	As 188.979†	6.1	-2.9	-0.0003	mg/L	-0.0003	mg/L	14:07:31
1	B 182.528†	7.7	15.9	0.0368	mg/L	0.0368	mg/L	14:07:31
1	Ba 233.527†	26489.7	29857.2	0.2458	mg/L	0.2458	mg/L	14:07:11
1	Be 313.107†	1090869.3	1220694.0	0.2544	mg/L	0.2544	mg/L	14:07:06
1	Ca 315.886†	35452975.4	39702101.2	244.3	mg/L	244.3	mg/L	14:06:58
1	Cd 228.802†	18878.2	21008.6	0.4620	mg/L	0.4620	mg/L	14:07:11
1	Co 228.616†	8032.7	9187.9	0.2211	mg/L	0.2211	mg/L	14:07:31
1	Cr 267.716†	36969.6	39670.8	0.2418	mg/L	0.2418	mg/L	14:07:11
1	Cu 324.752†	56166.7	60467.8	0.2535	mg/L	0.2535	mg/L	14:07:11
1	Fe 234.349†	4580847.8	5128760.5	93.42	mg/L	93.42	mg/L	14:07:06
1	Fe 238.204†	9500774.6	10639130.7	89.21	mg/L	89.21	mg/L	14:06:58
1	Mg 279.077†	5496463.0	6154908.3	239.5	mg/L	239.5	mg/L	14:07:06
1	Mn 257.610†	206448.9	229483.9	0.2437	mg/L	0.2437	mg/L	14:07:11
1	Mo 202.031†	234.1	224.8	0.0148	mg/L	0.0148	mg/L	14:07:31
1	Ni 231.604†	13811.5	15427.2	0.4409	mg/L	0.4409	mg/L	14:07:11
1	P 214.914†	-51.0	-99.0	-0.0390	mg/L	-0.0390	mg/L	14:07:31
1	Pb 220.353†	3337.9	3889.4	0.4587	mg/L	0.4587	mg/L	14:07:31
1	Sb 206.836†	7.5	-3.3	-0.0033	mg/L	-0.0033	mg/L	14:07:31
1	Se 196.026†	13.4	22.1	0.0284	mg/L	0.0284	mg/L	14:07:31
1	Sn 189.927†	-18.2	-107.8	-0.0303	mg/L	-0.0303	mg/L	14:07:31

1	Sr 407.771†	23891.7	20105.8	0.0007 mg/L	0.0007 mg/L	14:07:11
1	Ti 337.279†	2248.0	4865.3	0.0064 mg/L	0.0064 mg/L	14:07:11
1	Tl 190.801†	71.0	84.7	0.0965 mg/L	0.0965 mg/L	14:07:31
1	V 292.402†	57989.6	66527.5	0.2448 mg/L	0.2448 mg/L	14:07:11
1	Zn 213.857†	39002.3	43025.9	0.4900 mg/L	0.4900 mg/L	14:07:11
2	K 766.490†	676.6	220.8	0.2473 mg/L	0.2473 mg/L	14:06:44
2	Li 670.784†	158.3	-2.9	-0.0010 mg/L	-0.0010 mg/L	14:06:44
2	Na 589.592	2188.5	998.4	0.0357 mg/L	0.0357 mg/L	14:06:44
2	Y 371.029	3417757.2	3417757.2	0.891 mg/L		14:07:50
2	Ag 328.068†	138367.0	157847.0	0.5335 mg/L	0.5335 mg/L	14:07:56
2	Al 237.313†	1968370.4	2208491.2	258.5 mg/L	258.5 mg/L	14:07:50
2	As 188.979†	4.9	-4.2	-0.0019 mg/L	-0.0019 mg/L	14:08:16
2	B 182.528†	2.7	10.3	0.0259 mg/L	0.0259 mg/L	14:08:16
2	Ba 233.527†	26733.0	30183.1	0.2485 mg/L	0.2485 mg/L	14:07:56
2	Be 313.107†	1090778.8	1222771.0	0.2549 mg/L	0.2549 mg/L	14:07:50
2	Ca 315.886†	35551313.6	39883228.2	245.5 mg/L	245.5 mg/L	14:07:43
2	Cd 228.802†	19035.9	21223.3	0.4667 mg/L	0.4667 mg/L	14:07:56
2	Co 228.616†	8135.8	9319.5	0.2243 mg/L	0.2243 mg/L	14:08:16
2	Cr 267.716†	37310.1	40126.6	0.2445 mg/L	0.2445 mg/L	14:07:56
2	Cu 324.752†	56181.9	60597.1	0.2540 mg/L	0.2540 mg/L	14:07:56
2	Fe 234.349†	4576675.7	5133227.9	93.50 mg/L	93.50 mg/L	14:07:50
2	Fe 238.204†	9525791.6	10686170.8	89.60 mg/L	89.60 mg/L	14:07:43
2	Mg 279.077†	5507468.5	6178232.0	240.4 mg/L	240.4 mg/L	14:07:50
2	Mn 257.610†	208442.9	232133.3	0.2466 mg/L	0.2466 mg/L	14:07:56
2	Mo 202.031†	243.4	235.8	0.0155 mg/L	0.0155 mg/L	14:08:16
2	Ni 231.604†	13987.9	15652.8	0.4474 mg/L	0.4474 mg/L	14:07:56
2	P 214.914†	-50.1	-98.1	-0.0384 mg/L	-0.0384 mg/L	14:08:16
2	Pb 220.353†	3406.9	3973.5	0.4677 mg/L	0.4677 mg/L	14:08:16
2	Sb 206.836†	4.3	-6.8	-0.0049 mg/L	-0.0049 mg/L	14:08:16
2	Se 196.026†	17.9	27.2	0.0339 mg/L	0.0339 mg/L	14:08:16
2	Sn 189.927†	-24.1	-114.4	-0.0319 mg/L	-0.0319 mg/L	14:08:16
2	Sr 407.771†	23912.6	20177.0	0.0007 mg/L	0.0007 mg/L	14:07:56
2	Ti 337.279†	2141.9	4750.7	0.0063 mg/L	0.0063 mg/L	14:07:56
2	Tl 190.801†	64.6	77.8	0.0906 mg/L	0.0906 mg/L	14:08:16
2	V 292.402†	58574.8	67299.8	0.2478 mg/L	0.2478 mg/L	14:07:56
2	Zn 213.857†	39369.3	43515.5	0.4956 mg/L	0.4956 mg/L	14:07:56

Mean Data: ICSAB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3420804.4	0.892	mg/L	0.0011				0.13%
Ag 328.068†	157371.1	0.5319	mg/L	0.00226	0.5319	mg/L	0.00226	0.43%
QC value within limits for Ag 328.068 Recovery = 106.37%								
Al 237.313†	2207499.4	258.4	mg/L	0.16	258.4	mg/L	0.16	0.06%
QC value within limits for Al 237.313 Recovery = 103.36%								
As 188.979†	-3.5	-0.0011	mg/L	0.00115	-0.0011	mg/L	0.00115	102.20%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	13.1	0.0313	mg/L	0.00773	0.0313	mg/L	0.00773	24.68%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	30020.2	0.2471	mg/L	0.00191	0.2471	mg/L	0.00191	0.77%
QC value within limits for Ba 233.527 Recovery = 98.84%								
Be 313.107†	1221732.5	0.2547	mg/L	0.00031	0.2547	mg/L	0.00031	0.12%
QC value within limits for Be 313.107 Recovery = 101.86%								
Ca 315.886†	39792664.7	244.9	mg/L	0.79	244.9	mg/L	0.79	0.32%
QC value within limits for Ca 315.886 Recovery = 97.96%								
Cd 228.802†	21116.0	0.4644	mg/L	0.00334	0.4644	mg/L	0.00334	0.72%
QC value within limits for Cd 228.802 Recovery = 92.87%								
Co 228.616†	9253.7	0.2227	mg/L	0.00224	0.2227	mg/L	0.00224	1.00%
QC value within limits for Co 228.616 Recovery = 89.08%								
Cr 267.716†	39898.7	0.2431	mg/L	0.00194	0.2431	mg/L	0.00194	0.80%
QC value within limits for Cr 267.716 Recovery = 97.26%								
Cu 324.752†	60532.4	0.2538	mg/L	0.00037	0.2538	mg/L	0.00037	0.15%
QC value within limits for Cu 324.752 Recovery = 101.50%								
Fe 234.349†	5130994.2	93.46	mg/L	0.057	93.46	mg/L	0.057	0.06%
QC value within limits for Fe 234.349 Recovery = 93.46%								
Fe 238.204†	10662650.7	89.41	mg/L	0.279	89.41	mg/L	0.279	0.31%
QC value within limits for Fe 238.204 Recovery = 89.41%								
K 766.490†	247.9	0.2607	mg/L	0.01893	0.2607	mg/L	0.01893	7.26%
QC value within limits for K 766.490 Recovery = Not calculated								
Li 670.784†	3.5	-0.0008	mg/L	0.00024	-0.0008	mg/L	0.00024	29.16%
QC value within limits for Li 670.784 Recovery = Not calculated								

Mg 279.077†	6166570.2	240.0 mg/L	0.64	240.0 mg/L	0.64	0.27%
QC value within limits for Mg 279.077 Recovery = 95.99%						
Mn 257.610†	230808.6	0.2451 mg/L	0.00200	0.2451 mg/L	0.00200	0.81%
QC value within limits for Mn 257.610 Recovery = 98.06%						
Mo 202.031†	230.3	0.0151 mg/L	0.00049	0.0151 mg/L	0.00049	3.24%
QC value within limits for Mo 202.031 Recovery = Not calculated						
Na 589.592	927.4	0.0271 mg/L	0.01225	0.0271 mg/L	0.01225	45.22%
QC value within limits for Na 589.592 Recovery = Not calculated						
Ni 231.604†	15540.0	0.4441 mg/L	0.00458	0.4441 mg/L	0.00458	1.03%
QC value within limits for Ni 231.604 Recovery = 88.83%						
P 214.914†	-98.5	-0.0387 mg/L	0.00044	-0.0387 mg/L	0.00044	1.14%
QC value within limits for P 214.914 Recovery = Not calculated						
Pb 220.353†	3931.5	0.4632 mg/L	0.00633	0.4632 mg/L	0.00633	1.37%
QC value within limits for Pb 220.353 Recovery = 92.64%						
Sb 206.836†	-5.0	-0.0041 mg/L	0.00115	-0.0041 mg/L	0.00115	28.27%
QC value within limits for Sb 206.836 Recovery = Not calculated						
Se 196.026†	24.7	0.0312 mg/L	0.00385	0.0312 mg/L	0.00385	12.36%
QC value greater than the upper limit for Se 196.026 Recovery = Not calculated						
Sn 189.927†	-111.1	-0.0311 mg/L	0.00111	-0.0311 mg/L	0.00111	3.58%
QC value within limits for Sn 189.927 Recovery = Not calculated						
Sr 407.771†	20141.4	0.0007 mg/L	0.00000	0.0007 mg/L	0.00000	0.30%
QC value within limits for Sr 407.771 Recovery = Not calculated						
Ti 337.279†	4808.0	0.0063 mg/L	0.00009	0.0063 mg/L	0.00009	1.48%
QC value within limits for Ti 337.279 Recovery = Not calculated						
Tl 190.801†	81.3	0.0936 mg/L	0.00414	0.0936 mg/L	0.00414	4.42%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated						
V 292.402†	66913.7	0.2463 mg/L	0.00211	0.2463 mg/L	0.00211	0.86%
QC value within limits for V 292.402 Recovery = 98.51%						
Zn 213.857†	43270.7	0.4928 mg/L	0.00401	0.4928 mg/L	0.00401	0.81%
QC value within limits for Zn 213.857 Recovery = 98.56%						

QC Failed. Continue with analysis.

Sequence No.: 13
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/12/2006 2:09:55 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	48847.2	50020.6	24.84	mg/L	24.84	mg/L	14:11:33
1	Li 670.784†	18424.6	18889.8	0.5069	mg/L	0.5069	mg/L	14:11:33
1	Na 589.592	202426.1	201236.0	24.48	mg/L	24.48	mg/L	14:11:33
1	Y 371.029	3704597.4	3704597.4	0.966	mg/L			14:11:48
1	Ag 328.068†	69611.7	74662.7	0.2505	mg/L	0.2505	mg/L	14:11:54
1	Al 237.313†	20292.7	21161.2	2.474	mg/L	2.474	mg/L	14:11:54
1	As 188.979†	385.2	388.9	0.4787	mg/L	0.4787	mg/L	14:12:14
1	B 182.528†	228.6	243.9	0.4886	mg/L	0.4886	mg/L	14:12:14
1	Ba 233.527†	57975.6	60198.3	0.4971	mg/L	0.4971	mg/L	14:11:54
1	Be 313.107†	229843.5	236913.5	0.0489	mg/L	0.0489	mg/L	14:11:48
1	Ca 315.886†	774873.1	799893.6	4.937	mg/L	4.937	mg/L	14:11:48
1	Cd 228.802†	11041.7	11295.3	0.2473	mg/L	0.2473	mg/L	14:12:14
1	Co 228.616†	19487.5	20362.3	0.4887	mg/L	0.4887	mg/L	14:11:54
1	Cr 267.716†	82145.9	83292.5	0.4980	mg/L	0.4980	mg/L	14:11:54
1	Cu 324.752†	126045.7	128028.7	0.5028	mg/L	0.5028	mg/L	14:11:54
1	Fe 234.349†	134209.6	137524.0	2.490	mg/L	2.490	mg/L	14:11:54
1	Fe 238.204†	289572.0	298812.7	2.496	mg/L	2.496	mg/L	14:11:54
1	Mg 279.077†	124630.7	128348.2	4.978	mg/L	4.978	mg/L	14:11:54
1	Mn 257.610†	451737.6	465846.6	0.4956	mg/L	0.4956	mg/L	14:11:48
1	Mo 202.031†	7590.4	7819.1	0.4945	mg/L	0.4945	mg/L	14:12:14
1	Ni 231.604†	16793.9	17342.0	0.4963	mg/L	0.4963	mg/L	14:11:54
1	P 214.914†	7201.0	7411.5	4.891	mg/L	4.891	mg/L	14:12:14
1	Pb 220.353†	4364.2	4668.4	0.4956	mg/L	0.4956	mg/L	14:12:14
1	Sb 206.836†	1072.4	1098.4	0.4841	mg/L	0.4841	mg/L	14:12:14
1	Se 196.026†	863.4	900.8	0.9803	mg/L	0.9803	mg/L	14:12:14
1	Sn 189.927†	2110.7	2097.3	0.4898	mg/L	0.4898	mg/L	14:12:14
1	Sr 407.771†	1178235.1	1212872.3	0.0498	mg/L	0.0498	mg/L	14:11:48
1	Ti 337.279†	408036.5	424682.8	0.4932	mg/L	0.4932	mg/L	14:11:48
1	Tl 190.801†	473.2	495.1	0.4434	mg/L	0.4434	mg/L	14:12:14

1	V 292.402†	122813.1	128701.0	0.5039 mg/L	0.5039 mg/L	14:11:54
1	Zn 213.857†	41954.6	42771.5	0.4955 mg/L	0.4955 mg/L	14:11:54
2	K 766.490†	48162.8	49220.8	24.44 mg/L	24.44 mg/L	14:11:38
2	Li 670.784†	18326.4	18753.3	0.5032 mg/L	0.5032 mg/L	14:11:38
2	Na 589.592	202814.4	201624.3	24.53 mg/L	24.53 mg/L	14:11:38
2	Y 371.029	3711404.4	3711404.4	0.968 mg/L		14:12:21
2	Ag 328.068†	69561.9	74479.1	0.2499 mg/L	0.2499 mg/L	14:12:26
2	Al 237.313†	20235.3	21063.5	2.463 mg/L	2.463 mg/L	14:12:26
2	As 188.979†	387.8	391.0	0.4812 mg/L	0.4812 mg/L	14:12:46
2	B 182.528†	228.1	242.9	0.4866 mg/L	0.4866 mg/L	14:12:46
2	Ba 233.527†	57985.6	60098.6	0.4962 mg/L	0.4962 mg/L	14:12:26
2	Be 313.107†	229993.3	236632.0	0.0488 mg/L	0.0488 mg/L	14:12:21
2	Ca 315.886†	776648.0	800256.3	4.939 mg/L	4.939 mg/L	14:12:21
2	Cd 228.802†	11034.5	11266.9	0.2467 mg/L	0.2467 mg/L	14:12:46
2	Co 228.616†	19497.0	20335.1	0.4880 mg/L	0.4880 mg/L	14:12:26
2	Cr 267.716†	81947.3	82931.5	0.4958 mg/L	0.4958 mg/L	14:12:26
2	Cu 324.752†	125585.9	127314.3	0.5000 mg/L	0.5000 mg/L	14:12:26
2	Fe 234.349†	133915.3	136965.2	2.480 mg/L	2.480 mg/L	14:12:26
2	Fe 238.204†	289263.5	297944.3	2.489 mg/L	2.489 mg/L	14:12:26
2	Mg 279.077†	124647.0	128128.4	4.970 mg/L	4.970 mg/L	14:12:26
2	Mn 257.610†	452268.1	465537.2	0.4953 mg/L	0.4953 mg/L	14:12:21
2	Mo 202.031†	7584.1	7798.2	0.4931 mg/L	0.4931 mg/L	14:12:46
2	Ni 231.604†	16797.2	17313.5	0.4955 mg/L	0.4955 mg/L	14:12:26
2	P 214.914†	7187.9	7384.3	4.874 mg/L	4.874 mg/L	14:12:46
2	Pb 220.353†	4365.1	4661.1	0.4948 mg/L	0.4948 mg/L	14:12:46
2	Sb 206.836†	1070.0	1093.9	0.4822 mg/L	0.4822 mg/L	14:12:46
2	Se 196.026†	863.1	898.9	0.9783 mg/L	0.9783 mg/L	14:12:46
2	Sn 189.927†	2107.3	2089.8	0.4880 mg/L	0.4880 mg/L	14:12:46
2	Sr 407.771†	1181964.1	1214488.1	0.0499 mg/L	0.0499 mg/L	14:12:21
2	Ti 337.279†	409186.0	425095.8	0.4937 mg/L	0.4937 mg/L	14:12:21
2	Tl 190.801†	488.6	510.0	0.4560 mg/L	0.4560 mg/L	14:12:46
2	V 292.402†	122449.9	128092.5	0.5016 mg/L	0.5016 mg/L	14:12:26
2	Zn 213.857†	41823.2	42556.1	0.4930 mg/L	0.4930 mg/L	14:12:26

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3708000.9	0.967	mg/L	0.0013				0.13%
Ag 328.068†	74570.9	0.2502	mg/L	0.00044	0.2502	mg/L	0.00044	0.17%
QC value within limits for Ag 328.068 Recovery = 100.09%								
Al 237.313†	21112.3	2.469	mg/L	0.0081	2.469	mg/L	0.0081	0.33%
QC value within limits for Al 237.313 Recovery = 98.75%								
As 188.979†	390.0	0.4799	mg/L	0.00177	0.4799	mg/L	0.00177	0.37%
QC value within limits for As 188.979 Recovery = 95.99%								
B 182.528†	243.4	0.4876	mg/L	0.00143	0.4876	mg/L	0.00143	0.29%
QC value within limits for B 182.528 Recovery = 97.52%								
Ba 233.527†	60148.4	0.4967	mg/L	0.00058	0.4967	mg/L	0.00058	0.12%
QC value within limits for Ba 233.527 Recovery = 99.33%								
Be 313.107†	236772.7	0.0488	mg/L	0.00004	0.0488	mg/L	0.00004	0.09%
QC value within limits for Be 313.107 Recovery = 97.70%								
Ca 315.886†	800075.0	4.938	mg/L	0.0016	4.938	mg/L	0.0016	0.03%
QC value within limits for Ca 315.886 Recovery = 98.76%								
Cd 228.802†	11281.1	0.2470	mg/L	0.00045	0.2470	mg/L	0.00045	0.18%
QC value within limits for Cd 228.802 Recovery = 98.79%								
Co 228.616†	20348.7	0.4884	mg/L	0.00046	0.4884	mg/L	0.00046	0.09%
QC value within limits for Co 228.616 Recovery = 97.67%								
Cr 267.716†	83112.0	0.4969	mg/L	0.00153	0.4969	mg/L	0.00153	0.31%
QC value within limits for Cr 267.716 Recovery = 99.38%								
Cu 324.752†	127671.5	0.5014	mg/L	0.00198	0.5014	mg/L	0.00198	0.40%
QC value within limits for Cu 324.752 Recovery = 100.28%								
Fe 234.349†	137244.6	2.485	mg/L	0.0072	2.485	mg/L	0.0072	0.29%
QC value within limits for Fe 234.349 Recovery = 99.40%								
Fe 238.204†	298378.5	2.493	mg/L	0.0052	2.493	mg/L	0.0052	0.21%
QC value within limits for Fe 238.204 Recovery = 99.71%								
K 766.490†	49620.7	24.64	mg/L	0.279	24.64	mg/L	0.279	1.13%
QC value within limits for K 766.490 Recovery = 98.56%								
Li 670.784†	18821.6	0.5050	mg/L	0.00259	0.5050	mg/L	0.00259	0.51%
QC value within limits for Li 670.784 Recovery = 101.01%								
Mg 279.077†	128238.3	4.974	mg/L	0.0060	4.974	mg/L	0.0060	0.12%
QC value within limits for Mg 279.077 Recovery = 99.48%								
Mn 257.610†	465691.9	0.4954	mg/L	0.00023	0.4954	mg/L	0.00023	0.05%

QC value within limits for Mn 257.610 Recovery = 99.09%

Mo 202.031†	7808.6	0.4938 mg/L	0.00093	0.4938 mg/L	0.00093	0.19%

QC value within limits for Mo 202.031 Recovery = 98.76%

Na 589.592	201430.1	24.51 mg/L	0.034	24.51 mg/L	0.034	0.14%

QC value within limits for Na 589.592 Recovery = 98.03%

Ni 231.604†	17327.7	0.4959 mg/L	0.00058	0.4959 mg/L	0.00058	0.12%

QC value within limits for Ni 231.604 Recovery = 99.19%

P 214.914†	7397.9	4.882 mg/L	0.0126	4.882 mg/L	0.0126	0.26%

QC value within limits for P 214.914 Recovery = 97.65%

Pb 220.353†	4664.8	0.4952 mg/L	0.00055	0.4952 mg/L	0.00055	0.11%

QC value within limits for Pb 220.353 Recovery = 99.04%

Sb 206.836†	1096.1	0.4832 mg/L	0.00141	0.4832 mg/L	0.00141	0.29%

QC value within limits for Sb 206.836 Recovery = 96.63%

Se 196.026†	899.8	0.9793 mg/L	0.00143	0.9793 mg/L	0.00143	0.15%

QC value within limits for Se 196.026 Recovery = 97.93%

Sn 189.927†	2093.5	0.4889 mg/L	0.00126	0.4889 mg/L	0.00126	0.26%

QC value within limits for Sn 189.927 Recovery = 97.77%

Sr 407.771†	1213680.2	0.0499 mg/L	0.00005	0.0499 mg/L	0.00005	0.09%

QC value within limits for Sr 407.771 Recovery = 99.75%

Ti 337.279†	424889.3	0.4934 mg/L	0.00034	0.4934 mg/L	0.00034	0.07%

QC value within limits for Ti 337.279 Recovery = 98.69%

Tl 190.801†	502.6	0.4497 mg/L	0.00892	0.4497 mg/L	0.00892	1.98%

QC value less than the lower limit for Tl 190.801 Recovery = 89.93%

V 292.402†	128396.8	0.5028 mg/L	0.00168	0.5028 mg/L	0.00168	0.33%

QC value within limits for V 292.402 Recovery = 100.55%

Zn 213.857†	42663.8	0.4942 mg/L	0.00178	0.4942 mg/L	0.00178	0.36%

QC value within limits for Zn 213.857 Recovery = 98.85%

QC Failed. Continue with analysis.

Sequence No.: 14
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/12/2006 2:14:25 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	544.7	16.9	0.1466	mg/L	0.1466	mg/L	14:15:58
1	Li 670.784†	177.1	-0.0	-0.0009	mg/L	-0.0009	mg/L	14:15:58
1	Na 589.592	1072.0	-118.2	-0.1006	mg/L	-0.1006	mg/L	14:15:58
1	Y 371.029	3762180.4	3762180.4	0.981	mg/L			14:16:12
1	Ag 328.068†	-2370.0	196.2	-0.0002	mg/L	-0.0002	mg/L	14:16:17
1	Al 237.313†	-170.3	-16.1	0.0006	mg/L	0.0006	mg/L	14:16:37
1	As 188.979†	5.7	-3.9	-0.0012	mg/L	-0.0012	mg/L	14:16:37
1	B 182.528†	-2.3	4.9	0.0151	mg/L	0.0151	mg/L	14:16:37
1	Ba 233.527†	-184.3	3.3	-0.0013	mg/L	-0.0013	mg/L	14:16:37
1	Be 313.107†	1014.9	50.2	0.0001	mg/L	0.0001	mg/L	14:16:17
1	Ca 315.886†	2246.5	156.8	0.0129	mg/L	0.0129	mg/L	14:16:17
1	Cd 228.802†	131.6	0.8	0.0002	mg/L	0.0002	mg/L	14:16:37
1	Co 228.616†	-187.1	1.2	0.0004	mg/L	0.0004	mg/L	14:16:37
1	Cr 267.716†	1755.3	57.1	-0.0015	mg/L	-0.0015	mg/L	14:16:17
1	Cu 324.752†	2446.8	59.8	-0.0006	mg/L	-0.0006	mg/L	14:16:17
1	Fe 234.349†	1433.5	72.4	-0.0085	mg/L	-0.0085	mg/L	14:16:37
1	Fe 238.204†	1033.9	147.2	-0.0088	mg/L	-0.0088	mg/L	14:16:37
1	Mg 279.077†	629.5	-8.3	-0.0218	mg/L	-0.0218	mg/L	14:16:17
1	Mn 257.610†	1559.8	-131.1	-0.0010	mg/L	-0.0010	mg/L	14:16:17
1	Mo 202.031†	28.8	-8.0	0.0001	mg/L	0.0001	mg/L	14:16:37
1	Ni 231.604†	38.8	-0.9	-0.0027	mg/L	-0.0027	mg/L	14:16:37
1	P 214.914†	35.5	-5.6	0.0223	mg/L	0.0223	mg/L	14:16:37
1	Pb 220.353†	-162.8	-14.7	-0.0021	mg/L	-0.0021	mg/L	14:16:37
1	Sb 206.836†	10.7	-0.7	0.0017	mg/L	0.0017	mg/L	14:16:37
1	Se 196.026†	-4.6	2.4	0.0071	mg/L	0.0071	mg/L	14:16:37
1	Sn 189.927†	105.7	20.3	-0.0037	mg/L	-0.0037	mg/L	14:16:37
1	Sr 407.771†	6568.7	44.0	-0.0001	mg/L	-0.0001	mg/L	14:16:12
1	Ti 337.279†	-2190.7	115.0	0.0009	mg/L	0.0009	mg/L	14:16:17
1	Tl 190.801†	2.4	7.8	0.0298	mg/L	0.0298	mg/L	14:16:37
1	V 292.402†	-1706.5	-155.1	-0.0006	mg/L	-0.0006	mg/L	14:16:17
1	Zn 213.857†	655.0	14.3	-0.0013	mg/L	-0.0013	mg/L	14:16:37
2	K 766.490†	627.9	96.8	0.1861	mg/L	0.1861	mg/L	14:16:04

2	Li 670.784†	205.1	27.0	-0.0002 mg/L	-0.0002 mg/L	14:16:04
2	Na 589.592	1152.4	-37.8	-0.0908 mg/L	-0.0908 mg/L	14:16:04
2	Y 371.029	3791027.4	3791027.4	0.989 mg/L		14:16:43
2	Ag 328.068†	-2251.1	334.9	0.0003 mg/L	0.0003 mg/L	14:16:48
2	Al 237.313†	-129.7	26.3	0.0056 mg/L	0.0056 mg/L	14:17:09
2	As 188.979†	7.8	-1.8	0.0013 mg/L	0.0013 mg/L	14:17:09
2	B 182.528†	-1.7	5.6	0.0164 mg/L	0.0164 mg/L	14:17:09
2	Ba 233.527†	-174.5	14.7	-0.0012 mg/L	-0.0012 mg/L	14:17:09
2	Be 313.107†	1122.8	151.4	0.0001 mg/L	0.0001 mg/L	14:16:48
2	Ca 315.886†	2116.3	7.8	0.0120 mg/L	0.0120 mg/L	14:16:48
2	Cd 228.802†	136.3	4.5	0.0002 mg/L	0.0002 mg/L	14:17:09
2	Co 228.616†	-192.0	-2.3	0.0003 mg/L	0.0003 mg/L	14:17:09
2	Cr 267.716†	1767.1	55.4	-0.0015 mg/L	-0.0015 mg/L	14:16:48
2	Cu 324.752†	2468.8	63.0	-0.0006 mg/L	-0.0006 mg/L	14:16:48
2	Fe 234.349†	1427.0	54.6	-0.0088 mg/L	-0.0088 mg/L	14:17:09
2	Fe 238.204†	990.3	95.1	-0.0093 mg/L	-0.0093 mg/L	14:17:09
2	Mg 279.077†	581.8	-61.4	-0.0239 mg/L	-0.0239 mg/L	14:16:48
2	Mn 257.610†	1627.1	-75.1	-0.0009 mg/L	-0.0009 mg/L	14:16:48
2	Mo 202.031†	35.8	-1.1	0.0005 mg/L	0.0005 mg/L	14:17:09
2	Ni 231.604†	42.8	2.9	-0.0025 mg/L	-0.0025 mg/L	14:17:09
2	P 214.914†	36.4	-5.0	0.0227 mg/L	0.0227 mg/L	14:17:09
2	Pb 220.353†	-158.6	-9.1	-0.0015 mg/L	-0.0015 mg/L	14:17:09
2	Sb 206.836†	15.5	4.1	0.0038 mg/L	0.0038 mg/L	14:17:09
2	Se 196.026†	-5.8	1.3	0.0059 mg/L	0.0059 mg/L	14:17:09
2	Sn 189.927†	93.8	7.5	-0.0067 mg/L	-0.0067 mg/L	14:17:09
2	Sr 407.771†	6409.2	-168.3	-0.0001 mg/L	-0.0001 mg/L	14:16:43
2	Ti 337.279†	-2271.0	50.8	0.0008 mg/L	0.0008 mg/L	14:16:48
2	Tl 190.801†	2.2	7.5	0.0295 mg/L	0.0295 mg/L	14:17:09
2	V 292.402†	-1548.1	18.4	0.0001 mg/L	0.0001 mg/L	14:16:48
2	Zn 213.857†	655.7	10.0	-0.0014 mg/L	-0.0014 mg/L	14:17:09

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3776603.9	0.985	mg/L	0.0053				0.54%
Ag 328.068†	265.5	0.0000	mg/L	0.00033	0.0000	mg/L	0.00033	731.39%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	5.1	0.0031	mg/L	0.00352	0.0031	mg/L	0.00352	113.95%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	-2.9	0.0001	mg/L	0.00175	0.0001	mg/L	0.00175	>999.9%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	5.2	0.0157	mg/L	0.00095	0.0157	mg/L	0.00095	6.05%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	9.0	-0.0012	mg/L	0.00007	-0.0012	mg/L	0.00007	5.45%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	100.8	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	18.76%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	82.3	0.0124	mg/L	0.00065	0.0124	mg/L	0.00065	5.20%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	2.6	0.0002	mg/L	0.00005	0.0002	mg/L	0.00005	22.31%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	-0.5	0.0003	mg/L	0.00006	0.0003	mg/L	0.00006	18.37%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	56.3	-0.0015	mg/L	0.00001	-0.0015	mg/L	0.00001	0.50%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	61.4	-0.0006	mg/L	0.00001	-0.0006	mg/L	0.00001	1.42%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	63.5	-0.0086	mg/L	0.00023	-0.0086	mg/L	0.00023	2.65%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Fe 238.204†	121.1	-0.0090	mg/L	0.00031	-0.0090	mg/L	0.00031	3.41%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	56.8	0.1664	mg/L	0.02791	0.1664	mg/L	0.02791	16.77%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated								
Li 670.784†	13.5	-0.0006	mg/L	0.00051	-0.0006	mg/L	0.00051	90.41%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	-34.8	-0.0229	mg/L	0.00146	-0.0229	mg/L	0.00146	6.38%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-103.1	-0.0009	mg/L	0.00004	-0.0009	mg/L	0.00004	4.57%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-4.5	0.0003	mg/L	0.00031	0.0003	mg/L	0.00031	97.49%
QC value within limits for Mo 202.031 Recovery = Not calculated								

Na 589.592	-78.0	-0.0957 mg/L	0.00694	-0.0957 mg/L	0.00694	7.26%	
QC value within limits for Na 589.592 Recovery = Not calculated							
Ni 231.604†	1.0	-0.0026 mg/L	0.00008	-0.0026 mg/L	0.00008	2.94%	
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated							
P 214.914†	-5.3	0.0225 mg/L	0.00028	0.0225 mg/L	0.00028	1.24%	
QC value within limits for P 214.914 Recovery = Not calculated							
Pb 220.353†	-11.9	-0.0018 mg/L	0.00042	-0.0018 mg/L	0.00042	22.67%	
QC value within limits for Pb 220.353 Recovery = Not calculated							
Sb 206.836†	1.7	0.0028 mg/L	0.00153	0.0028 mg/L	0.00153	55.34%	
QC value within limits for Sb 206.836 Recovery = Not calculated							
Se 196.026†	1.9	0.0065 mg/L	0.00085	0.0065 mg/L	0.00085	13.16%	
QC value within limits for Se 196.026 Recovery = Not calculated							
Sn 189.927†	13.9	-0.0052 mg/L	0.00215	-0.0052 mg/L	0.00215	41.51%	
QC value within limits for Sn 189.927 Recovery = Not calculated							
Sr 407.771†	-62.1	-0.0001 mg/L	0.00001	-0.0001 mg/L	0.00001	4.40%	
QC value within limits for Sr 407.771 Recovery = Not calculated							
Ti 337.279†	82.9	0.0009 mg/L	0.00005	0.0009 mg/L	0.00005	6.05%	
QC value within limits for Ti 337.279 Recovery = Not calculated							
Tl 190.801†	7.6	0.0297 mg/L	0.00018	0.0297 mg/L	0.00018	0.60%	
QC value within limits for Tl 190.801 Recovery = Not calculated							
V 292.402†	-68.3	-0.0003 mg/L	0.00048	-0.0003 mg/L	0.00048	181.67%	
QC value within limits for V 292.402 Recovery = Not calculated							
Zn 213.857†	12.1	-0.0014 mg/L	0.00004	-0.0014 mg/L	0.00004	2.62%	
QC value within limits for Zn 213.857 Recovery = Not calculated							

QC Failed. Continue with analysis.

Sequence No.: 15
Sample ID: 0606146-01tclpx5
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 9
Date Collected: 6/12/2006 2:18:46 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606146-01tclpx5

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	12756.7	11904.5	6.016	mg/L	6.016	mg/L	14:20:25
1	Li 670.784†	2690.0	2443.3	0.0648	mg/L	0.0648	mg/L	14:20:25
1	Na 589.592	748294.9	747104.8	91.13	mg/L	91.13	mg/L	14:20:19
1	Y 371.029	3931142.4	3931142.4	1.03	mg/L			14:20:54
1	Ag 328.068†	-6091.7	-3330.1	-0.0099	mg/L	-0.0099	mg/L	14:20:59
1	Al 237.313†	40602.9	39761.3	4.652	mg/L	4.652	mg/L	14:20:59
1	As 188.979†	64.1	52.8	0.0571	mg/L	0.0571	mg/L	14:21:19
1	B 182.528†	-29.2	-21.2	-0.0366	mg/L	-0.0366	mg/L	14:20:59
1	Ba 233.527†	726.1	899.3	0.0002	mg/L	0.0002	mg/L	14:20:59
1	Be 313.107†	23178.5	21623.9	0.0040	mg/L	0.0040	mg/L	14:20:54
1	Ca 315.886†	1843204.3	1795718.6	11.11	mg/L	11.11	mg/L	14:20:54
1	Cd 228.802†	278.4	138.3	0.0073	mg/L	0.0073	mg/L	14:20:59
1	Co 228.616†	20654.0	20337.7	0.4865	mg/L	0.4865	mg/L	14:20:59
1	Cr 267.716†	11069.9	9065.6	0.0502	mg/L	0.0502	mg/L	14:20:54
1	Cu 324.752†	68509.2	64389.5	0.2530	mg/L	0.2530	mg/L	14:20:59
1	Fe 234.349†	293561.7	284949.8	5.044	mg/L	5.044	mg/L	14:20:54
1	Fe 238.204†	620002.6	603840.5	5.064	mg/L	5.064	mg/L	14:20:54
1	Mg 279.077†	64630.8	62390.7	2.409	mg/L	2.409	mg/L	14:20:59
1	Mn 257.610†	426738.7	414517.7	0.4424	mg/L	0.4424	mg/L	14:20:54
1	Mo 202.031†	1835.2	1752.7	0.1113	mg/L	0.1113	mg/L	14:21:19
1	Ni 231.604†	445819.9	434809.8	12.49	mg/L	12.49	mg/L	14:20:54
1	P 214.914†	180.9	134.6	0.1144	mg/L	0.1144	mg/L	14:21:19
1	Pb 220.353†	-163.3	-8.0	-0.0031	mg/L	-0.0031	mg/L	14:21:19
1	Sb 206.836†	-66.7	-76.7	-0.0002	mg/L	-0.0002	mg/L	14:21:19
1	Se 196.026†	-8.4	-1.0	0.0034	mg/L	0.0034	mg/L	14:21:19
1	Sn 189.927†	94.7	5.0	-0.0071	mg/L	-0.0071	mg/L	14:21:19
1	Sr 407.771†	3725276.1	3626963.0	0.1493	mg/L	0.1493	mg/L	14:20:46
1	Ti 337.279†	7759.5	9916.4	0.0123	mg/L	0.0123	mg/L	14:20:59
1	Tl 190.801†	53.8	57.8	0.0417	mg/L	0.0417	mg/L	14:21:19
1	V 292.402†	2240597.7	2187050.9	8.446	mg/L	8.446	mg/L	14:20:54
1	Zn 213.857†	311238.3	302926.9	3.466	mg/L	3.466	mg/L	14:20:54
2	K 766.490†	12815.7	11963.6	6.046	mg/L	6.046	mg/L	14:20:36
2	Li 670.784†	2724.8	2477.5	0.0657	mg/L	0.0657	mg/L	14:20:36
2	Na 589.592	746118.2	744928.1	90.87	mg/L	90.87	mg/L	14:20:30
2	Y 371.029	3930674.3	3930674.3	1.03	mg/L			14:21:34

Mean Data: 0606113-07x5

Analyte	Mean Corrected Intensity	Calib Conc.	Calib Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
Y 371.029	3801776.3	0.991	mg/L	0.0015				0.15%
Ag 328.068†	68.9	0.0010	mg/L	0.00044	0.0010	mg/L	0.00044	44.63%
Al 237.313†	188448.2	21.92	mg/L	0.064	21.92	mg/L	0.064	0.29%
As 188.979†	3.9	0.0063	mg/L	0.00335	0.0063	mg/L	0.00335	52.83%
B 182.528†	11.1	0.0274	mg/L	0.00138	0.0274	mg/L	0.00138	5.03%
Ba 233.527†	23355.9	0.1921	mg/L	0.00023	0.1921	mg/L	0.00023	0.12%
Be 313.107†	6629.2	-0.0006	mg/L	0.00001	-0.0006	mg/L	0.00001	2.39%
Ca 315.886†	486019.5	3.003	mg/L	0.0053	3.003	mg/L	0.0053	0.18%
Cd 228.802†	11.4	0.0008	mg/L	0.00038	0.0008	mg/L	0.00038	50.18%
Co 228.616†	1013.8	0.0203	mg/L	0.00024	0.0203	mg/L	0.00024	1.20%
Cr 267.716†	6206.1	0.0372	mg/L	0.00013	0.0372	mg/L	0.00013	0.35%
Cu 324.752†	20860.2	0.0900	mg/L	0.00019	0.0900	mg/L	0.00019	0.21%
Fe 234.349†	2192577.1	39.93	mg/L	0.095	39.93	mg/L	0.095	0.24%
Fe 238.204†	4695117.0	39.36	mg/L	0.027	39.36	mg/L	0.027	0.07%
K 766.490†	13339.1	6.725	mg/L	0.0216	6.725	mg/L	0.0216	0.32%
Li 670.784†	1019.4	0.0265	mg/L	0.00053	0.0265	mg/L	0.00053	2.02%
Mg 279.077†	278368.1	10.81	mg/L	0.033	10.81	mg/L	0.033	0.30%
Mn 257.610†	911498.7	0.9703	mg/L	0.00115	0.9703	mg/L	0.00115	0.12%
Mo 202.031†	26.5	0.0023	mg/L	0.00033	0.0023	mg/L	0.00033	14.55%
Na 589.592	9731.6	1.102	mg/L	0.0083	1.102	mg/L	0.0083	0.75%
Ni 231.604†	1483.7	0.0400	mg/L	0.00033	0.0400	mg/L	0.00033	0.83%
P 214.914†	2835.8	1.888	mg/L	0.0050	1.888	mg/L	0.0050	0.27%
Pb 220.353†	237.4	0.0270	mg/L	0.00053	0.0270	mg/L	0.00053	1.95%
Sb 206.836†	6.3	0.0020	mg/L	0.00148	0.0020	mg/L	0.00148	74.52%
Se 196.026†	2.3	0.0069	mg/L	0.00392	0.0069	mg/L	0.00392	56.64%
Sn 189.927†	-13.7	-0.0080	mg/L	0.00037	-0.0080	mg/L	0.00037	4.64%
Sr 407.771†	243363.8	0.0099	mg/L	0.00001	0.0099	mg/L	0.00001	0.08%
Ti 337.279†	1767264.5	2.050	mg/L	0.0010	2.050	mg/L	0.0010	0.05%
Tl 190.801†	6.2	0.0412	mg/L	0.00926	0.0412	mg/L	0.00926	22.47%
V 292.402†	13177.3	0.0431	mg/L	0.00016	0.0431	mg/L	0.00016	0.36%
Zn 213.857†	15072.2	0.1715	mg/L	0.00052	0.1715	mg/L	0.00052	0.31%

Sequence No.: 21
Sample ID: BF61206-BLK1
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 15
Date Collected: 6/12/2006 2:47:15 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: BF61206-BLK1

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	589.0	65.3	0.1706	mg/L	0.1706	mg/L	14:48:51
1	Li 670.784†	181.5	5.5	-0.0008	mg/L	-0.0008	mg/L	14:48:51
1	Na 589.592	10774.8	9584.6	1.084	mg/L	1.084	mg/L	14:48:51
1	Y 371.029	3741326.5	3741326.5	0.976	mg/L			14:49:05
1	Ag 328.068†	-2313.9	240.2	0.0000	mg/L	0.0000	mg/L	14:49:10
1	Al 237.313†	-101.2	53.7	0.0087	mg/L	0.0087	mg/L	14:49:30
1	As 188.979†	6.7	-2.8	0.0001	mg/L	0.0001	mg/L	14:49:30
1	B 182.528†	-1.4	5.8	0.0169	mg/L	0.0169	mg/L	14:49:30
1	Ba 233.527†	-174.4	12.4	-0.0012	mg/L	-0.0012	mg/L	14:49:30
1	Be 313.107†	932.4	-28.7	0.0001	mg/L	0.0001	mg/L	14:49:10
1	Ca 315.886†	8542.9	6622.7	0.0527	mg/L	0.0527	mg/L	14:49:10
1	Cd 228.802†	147.1	17.5	0.0005	mg/L	0.0005	mg/L	14:49:30
1	Co 228.616†	-182.9	4.4	0.0004	mg/L	0.0004	mg/L	14:49:30
1	Cr 267.716†	2422.9	751.3	0.0027	mg/L	0.0027	mg/L	14:49:10
1	Cu 324.752†	2757.4	392.1	0.0007	mg/L	0.0007	mg/L	14:49:10
1	Fe 234.349†	2649.4	1326.7	0.0144	mg/L	0.0144	mg/L	14:49:10
1	Fe 238.204†	3310.7	2486.5	0.0108	mg/L	0.0108	mg/L	14:49:30
1	Mg 279.077†	813.7	184.1	-0.0144	mg/L	-0.0144	mg/L	14:49:10
1	Mn 257.610†	2316.1	652.9	-0.0001	mg/L	-0.0001	mg/L	14:49:10
1	Mo 202.031†	54.3	18.3	0.0018	mg/L	0.0018	mg/L	14:49:30
1	Ni 231.604†	116.0	78.4	-0.0004	mg/L	-0.0004	mg/L	14:49:30
1	P 214.914†	1097.3	1082.8	0.7368	mg/L	0.7368	mg/L	14:49:30
1	Pb 220.353†	-136.8	11.1	0.0006	mg/L	0.0006	mg/L	14:49:30
1	Sb 206.836†	11.7	0.4	0.0021	mg/L	0.0021	mg/L	14:49:30
1	Se 196.026†	-9.9	-3.0	0.0012	mg/L	0.0012	mg/L	14:49:30

Se 196.026†	549.4	0.5997 mg/L	0.00138	0.5997 mg/L	0.00138	0.23%
Sn 189.927†	3610.7	0.8533 mg/L	0.00377	0.8533 mg/L	0.00377	0.44%
Sr 407.771†	7007129.5	0.2886 mg/L	0.00115	0.2886 mg/L	0.00115	0.40%
Ti 337.279†	1394624.2	1.618 mg/L	0.0000	1.618 mg/L	0.0000	0.00%
Tl 190.801†	939.8	0.8349 mg/L	0.00945	0.8349 mg/L	0.00945	1.13%
V 292.402†	315956.5	1.210 mg/L	0.0012	1.210 mg/L	0.0012	0.10%
Zn 213.857†	290909.6	3.386 mg/L	0.0047	3.386 mg/L	0.0047	0.14%

Sequence No.: 25
Sample ID: CCV
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 3
Date Collected: 6/12/2006 3:05:32 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: CCV

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	47977.3	49423.1	24.54	mg/L	24.54	mg/L	15:07:06
1	Li 670.784†	17873.1	18431.7	0.4946	mg/L	0.4946	mg/L	15:07:06
1	Na 589.592	201468.0	200277.9	24.37	mg/L	24.37	mg/L	15:07:06
1	Y 371.029	3682137.0	3682137.0	0.960	mg/L			15:07:21
1	Ag 328.068†	69108.9	74578.7	0.2503	mg/L	0.2503	mg/L	15:07:27
1	Al 237.313†	20246.3	21241.1	2.484	mg/L	2.484	mg/L	15:07:27
1	As 188.979†	383.5	389.7	0.4796	mg/L	0.4796	mg/L	15:07:47
1	B 182.528†	232.6	249.5	0.4997	mg/L	0.4997	mg/L	15:07:47
1	Ba 233.527†	57876.5	60461.1	0.4992	mg/L	0.4992	mg/L	15:07:27
1	Be 313.107†	226927.0	235327.5	0.0486	mg/L	0.0486	mg/L	15:07:21
1	Ca 315.886†	763314.5	792749.2	4.893	mg/L	4.893	mg/L	15:07:21
1	Cd 228.802†	10967.8	11288.1	0.2472	mg/L	0.2472	mg/L	15:07:47
1	Co 228.616†	19455.0	20451.4	0.4908	mg/L	0.4908	mg/L	15:07:27
1	Cr 267.716†	81568.5	83209.9	0.4975	mg/L	0.4975	mg/L	15:07:27
1	Cu 324.752†	125705.2	128469.9	0.5046	mg/L	0.5046	mg/L	15:07:27
1	Fe 234.349†	133255.4	137377.7	2.487	mg/L	2.487	mg/L	15:07:27
1	Fe 238.204†	288484.1	299508.0	2.502	mg/L	2.502	mg/L	15:07:27
1	Mg 279.077†	123706.3	128172.4	4.971	mg/L	4.971	mg/L	15:07:27
1	Mn 257.610†	446563.8	463310.9	0.4929	mg/L	0.4929	mg/L	15:07:21
1	Mo 202.031†	7536.3	7810.7	0.4939	mg/L	0.4939	mg/L	15:07:47
1	Ni 231.604†	16646.9	17294.9	0.4950	mg/L	0.4950	mg/L	15:07:27
1	P 214.914†	7094.4	7346.0	4.848	mg/L	4.848	mg/L	15:07:47
1	Pb 220.353†	4348.0	4679.1	0.4967	mg/L	0.4967	mg/L	15:07:47
1	Sb 206.836†	1067.3	1099.8	0.4848	mg/L	0.4848	mg/L	15:07:47
1	Se 196.026†	851.7	894.1	0.9731	mg/L	0.9731	mg/L	15:07:47
1	Sn 189.927†	2089.4	2088.4	0.4876	mg/L	0.4876	mg/L	15:07:47
1	Sr 407.771†	1171610.1	1213412.1	0.0499	mg/L	0.0499	mg/L	15:07:21
1	Ti 337.279†	403724.0	422768.0	0.4910	mg/L	0.4910	mg/L	15:07:21
1	Tl 190.801†	648.4	680.5	0.5996	mg/L	0.5996	mg/L	15:07:47
1	V 292.402†	122167.8	128804.4	0.5043	mg/L	0.5043	mg/L	15:07:27
1	Zn 213.857†	41638.2	42706.9	0.4947	mg/L	0.4947	mg/L	15:07:27
2	K 766.490†	47478.1	48825.0	24.25	mg/L	24.25	mg/L	15:07:12
2	Li 670.784†	17903.0	18433.4	0.4946	mg/L	0.4946	mg/L	15:07:12
2	Na 589.592	199274.6	198084.5	24.10	mg/L	24.10	mg/L	15:07:12
2	Y 371.029	3687974.8	3687974.8	0.962	mg/L			15:07:54
2	Ag 328.068†	69931.9	75320.4	0.2528	mg/L	0.2528	mg/L	15:08:00
2	Al 237.313†	20391.4	21358.6	2.497	mg/L	2.497	mg/L	15:08:00
2	As 188.979†	388.0	393.6	0.4845	mg/L	0.4845	mg/L	15:08:20
2	B 182.528†	233.6	250.1	0.5009	mg/L	0.5009	mg/L	15:08:20
2	Ba 233.527†	58274.3	60779.3	0.5019	mg/L	0.5019	mg/L	15:08:00
2	Be 313.107†	227632.6	235687.1	0.0486	mg/L	0.0486	mg/L	15:07:54
2	Ca 315.886†	765922.5	794202.5	4.902	mg/L	4.902	mg/L	15:07:54
2	Cd 228.802†	10935.6	11236.5	0.2460	mg/L	0.2460	mg/L	15:08:20
2	Co 228.616†	19574.7	20543.9	0.4931	mg/L	0.4931	mg/L	15:08:00
2	Cr 267.716†	82314.5	83851.1	0.5013	mg/L	0.5013	mg/L	15:08:00
2	Cu 324.752†	126387.8	128972.4	0.5065	mg/L	0.5065	mg/L	15:08:00
2	Fe 234.349†	134814.7	138779.2	2.513	mg/L	2.513	mg/L	15:08:00
2	Fe 238.204†	290634.0	301267.8	2.517	mg/L	2.517	mg/L	15:08:00
2	Mg 279.077†	125046.4	129361.9	5.018	mg/L	5.018	mg/L	15:08:00
2	Mn 257.610†	447632.4	463685.8	0.4933	mg/L	0.4933	mg/L	15:07:54
2	Mo 202.031†	7543.2	7805.4	0.4936	mg/L	0.4936	mg/L	15:08:20
2	Ni 231.604†	16869.4	17498.8	0.5008	mg/L	0.5008	mg/L	15:08:00
2	P 214.914†	7083.2	7322.7	4.833	mg/L	4.833	mg/L	15:08:20

2	Pb 220.353†	4295.7	4617.5	0.4902 mg/L	0.4902 mg/L	15:08:20
2	Sb 206.836†	1055.7	1085.9	0.4785 mg/L	0.4785 mg/L	15:08:20
2	Se 196.026†	850.2	891.1	0.9699 mg/L	0.9699 mg/L	15:08:20
2	Sn 189.927†	2076.4	2071.5	0.4836 mg/L	0.4836 mg/L	15:08:20
2	Sr 407.771†	1173534.3	1213481.5	0.0499 mg/L	0.0499 mg/L	15:07:54
2	Ti 337.279†	405335.7	423778.3	0.4922 mg/L	0.4922 mg/L	15:07:54
2	Tl 190.801†	639.7	670.4	0.5911 mg/L	0.5911 mg/L	15:08:20
2	V 292.402†	123126.5	129599.8	0.5074 mg/L	0.5074 mg/L	15:08:00
2	Zn 213.857†	42128.9	43148.5	0.4999 mg/L	0.4999 mg/L	15:08:00

Mean Data: CCV

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3685055.9	0.961	mg/L	0.0011				0.11%
Ag 328.068†	74949.5	0.2515	mg/L	0.00176	0.2515	mg/L	0.00176	0.70%
QC value within limits for Ag 328.068 Recovery = 100.60%								
Al 237.313†	21299.8	2.491	mg/L	0.0097	2.491	mg/L	0.0097	0.39%
QC value within limits for Al 237.313 Recovery = 99.62%								
As 188.979†	391.7	0.4820	mg/L	0.00343	0.4820	mg/L	0.00343	0.71%
QC value within limits for As 188.979 Recovery = 96.40%								
B 182.528†	249.8	0.5003	mg/L	0.00089	0.5003	mg/L	0.00089	0.18%
QC value within limits for B 182.528 Recovery = 100.06%								
Ba 233.527†	60620.2	0.5006	mg/L	0.00186	0.5006	mg/L	0.00186	0.37%
QC value within limits for Ba 233.527 Recovery = 100.11%								
Be 313.107†	235507.3	0.0486	mg/L	0.00005	0.0486	mg/L	0.00005	0.11%
QC value within limits for Be 313.107 Recovery = 97.18%								
Ca 315.886†	793475.8	4.898	mg/L	0.0063	4.898	mg/L	0.0063	0.13%
QC value within limits for Ca 315.886 Recovery = 97.95%								
Cd 228.802†	11262.3	0.2466	mg/L	0.00081	0.2466	mg/L	0.00081	0.33%
QC value within limits for Cd 228.802 Recovery = 98.63%								
Co 228.616†	20497.7	0.4920	mg/L	0.00157	0.4920	mg/L	0.00157	0.32%
QC value within limits for Co 228.616 Recovery = 98.39%								
Cr 267.716†	83530.5	0.4994	mg/L	0.00272	0.4994	mg/L	0.00272	0.55%
QC value within limits for Cr 267.716 Recovery = 99.88%								
Cu 324.752†	128721.1	0.5055	mg/L	0.00140	0.5055	mg/L	0.00140	0.28%
QC value within limits for Cu 324.752 Recovery = 101.11%								
Fe 234.349†	138078.4	2.500	mg/L	0.0180	2.500	mg/L	0.0180	0.72%
QC value within limits for Fe 234.349 Recovery = 100.01%								
Fe 238.204†	300387.9	2.510	mg/L	0.0104	2.510	mg/L	0.0104	0.42%
QC value within limits for Fe 238.204 Recovery = 100.38%								
K 766.490†	49124.1	24.39	mg/L	0.209	24.39	mg/L	0.209	0.86%
QC value within limits for K 766.490 Recovery = 97.58%								
Li 670.784†	18432.6	0.4946	mg/L	0.00003	0.4946	mg/L	0.00003	0.01%
QC value within limits for Li 670.784 Recovery = 98.92%								
Mg 279.077†	128767.1	4.995	mg/L	0.0327	4.995	mg/L	0.0327	0.66%
QC value within limits for Mg 279.077 Recovery = 99.89%								
Mn 257.610†	463498.4	0.4931	mg/L	0.00028	0.4931	mg/L	0.00028	0.06%
QC value within limits for Mn 257.610 Recovery = 98.62%								
Mo 202.031†	7808.0	0.4938	mg/L	0.00024	0.4938	mg/L	0.00024	0.05%
QC value within limits for Mo 202.031 Recovery = 98.75%								
Na 589.592	199181.2	24.23	mg/L	0.189	24.23	mg/L	0.189	0.78%
QC value within limits for Na 589.592 Recovery = 96.93%								
Ni 231.604†	17396.9	0.4979	mg/L	0.00414	0.4979	mg/L	0.00414	0.83%
QC value within limits for Ni 231.604 Recovery = 99.58%								
P 214.914†	7334.3	4.841	mg/L	0.0108	4.841	mg/L	0.0108	0.22%
QC value within limits for P 214.914 Recovery = 96.81%								
Pb 220.353†	4648.3	0.4934	mg/L	0.00461	0.4934	mg/L	0.00461	0.94%
QC value within limits for Pb 220.353 Recovery = 98.69%								
Sb 206.836†	1092.9	0.4817	mg/L	0.00445	0.4817	mg/L	0.00445	0.92%
QC value within limits for Sb 206.836 Recovery = 96.33%								
Se 196.026†	892.6	0.9715	mg/L	0.00226	0.9715	mg/L	0.00226	0.23%
QC value within limits for Se 196.026 Recovery = 97.15%								
Sn 189.927†	2079.9	0.4856	mg/L	0.00283	0.4856	mg/L	0.00283	0.58%
QC value within limits for Sn 189.927 Recovery = 97.13%								
Sr 407.771†	1213446.8	0.0499	mg/L	0.00000	0.0499	mg/L	0.00000	0.00%
QC value within limits for Sr 407.771 Recovery = 99.73%								
Ti 337.279†	423273.2	0.4916	mg/L	0.00083	0.4916	mg/L	0.00083	0.17%
QC value within limits for Ti 337.279 Recovery = 98.31%								
Tl 190.801†	675.4	0.5954	mg/L	0.00604	0.5954	mg/L	0.00604	1.01%
QC value greater than the upper limit for Tl 190.801 Recovery = 119.07%								
V 292.402†	129202.1	0.5059	mg/L	0.00216	0.5059	mg/L	0.00216	0.43%

QC value within limits for V 292.402 Recovery = 101.17%

Zn 213.857†	42927.7	0.4973 mg/L	0.00362	0.4973 mg/L	0.00362	0.73%

QC value within limits for Zn 213.857 Recovery = 99.46%

QC Failed. Continue with analysis.

Sequence No.: 26
Sample ID: ICCB
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 1
Date Collected: 6/12/2006 3:09:58 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: ICCB

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	683.4	155.6	0.2151	mg/L	0.2151	mg/L	15:11:31
1	Li 670.784†	231.4	54.4	0.0005	mg/L	0.0005	mg/L	15:11:31
1	Na 589.592	743.4	-446.7	-0.1407	mg/L	-0.1407	mg/L	15:11:31
1	Y 371.029	3776955.7	3776955.7	0.985	mg/L			15:11:44
1	Ag 328.068†	-2258.5	318.8	0.0002	mg/L	0.0002	mg/L	15:11:49
1	Al 237.313†	-155.7	-0.6	0.0024	mg/L	0.0024	mg/L	15:12:10
1	As 188.979†	8.1	-1.5	0.0017	mg/L	0.0017	mg/L	15:12:10
1	B 182.528†	2.1	9.4	0.0241	mg/L	0.0241	mg/L	15:12:10
1	Ba 233.527†	-186.8	1.5	-0.0013	mg/L	-0.0013	mg/L	15:12:10
1	Be 313.107†	1032.1	63.6	0.0001	mg/L	0.0001	mg/L	15:11:49
1	Ca 315.886†	2258.7	160.3	0.0129	mg/L	0.0129	mg/L	15:11:49
1	Cd 228.802†	126.2	-5.2	0.0000	mg/L	0.0000	mg/L	15:12:10
1	Co 228.616†	-184.3	4.8	0.0005	mg/L	0.0005	mg/L	15:12:10
1	Cr 267.716†	1687.2	-19.0	-0.0019	mg/L	-0.0019	mg/L	15:11:49
1	Cu 324.752†	2479.5	83.3	-0.0005	mg/L	-0.0005	mg/L	15:11:49
1	Fe 234.349†	1405.4	38.2	-0.0091	mg/L	-0.0091	mg/L	15:12:10
1	Fe 238.204†	900.8	7.9	-0.0100	mg/L	-0.0100	mg/L	15:12:10
1	Mg 279.077†	611.4	-29.1	-0.0227	mg/L	-0.0227	mg/L	15:11:49
1	Mn 257.610†	1519.8	-177.9	-0.0010	mg/L	-0.0010	mg/L	15:11:49
1	Mo 202.031†	18.4	-18.6	-0.0006	mg/L	-0.0006	mg/L	15:12:10
1	Ni 231.604†	32.5	-7.5	-0.0028	mg/L	-0.0028	mg/L	15:12:10
1	P 214.914†	53.3	12.3	0.0341	mg/L	0.0341	mg/L	15:12:10
1	Pb 220.353†	-165.7	-16.9	-0.0024	mg/L	-0.0024	mg/L	15:12:10
1	Sb 206.836†	11.9	0.4	0.0022	mg/L	0.0022	mg/L	15:12:10
1	Se 196.026†	-6.3	0.7	0.0052	mg/L	0.0052	mg/L	15:12:10
1	Sn 189.927†	99.1	13.2	-0.0053	mg/L	-0.0053	mg/L	15:12:10
1	Sr 407.771†	6216.7	-339.5	-0.0002	mg/L	-0.0002	mg/L	15:11:44
1	Ti 337.279†	-2260.8	52.6	0.0008	mg/L	0.0008	mg/L	15:11:49
1	Tl 190.801†	4.2	9.5	0.0313	mg/L	0.0313	mg/L	15:12:10
1	V 292.402†	-1551.3	9.4	0.0000	mg/L	0.0000	mg/L	15:11:49
1	Zn 213.857†	695.0	52.3	-0.0009	mg/L	-0.0009	mg/L	15:12:10
2	K 766.490†	684.5	153.4	0.2141	mg/L	0.2141	mg/L	15:11:36
2	Li 670.784†	198.0	19.6	-0.0004	mg/L	-0.0004	mg/L	15:11:36
2	Na 589.592	685.8	-504.4	-0.1477	mg/L	-0.1477	mg/L	15:11:36
2	Y 371.029	3794674.9	3794674.9	0.990	mg/L			15:12:16
2	Ag 328.068†	-2378.4	208.4	-0.0001	mg/L	-0.0001	mg/L	15:12:21
2	Al 237.313†	-134.3	21.7	0.0050	mg/L	0.0050	mg/L	15:12:41
2	As 188.979†	6.5	-3.2	-0.0003	mg/L	-0.0003	mg/L	15:12:41
2	B 182.528†	0.1	7.3	0.0199	mg/L	0.0199	mg/L	15:12:41
2	Ba 233.527†	-177.4	11.8	-0.0012	mg/L	-0.0012	mg/L	15:12:41
2	Be 313.107†	986.9	13.0	0.0001	mg/L	0.0001	mg/L	15:12:21
2	Ca 315.886†	2150.4	40.2	0.0122	mg/L	0.0122	mg/L	15:12:21
2	Cd 228.802†	121.7	-10.3	-0.0001	mg/L	-0.0001	mg/L	15:12:41
2	Co 228.616†	-185.2	4.7	0.0005	mg/L	0.0005	mg/L	15:12:41
2	Cr 267.716†	1784.3	71.0	-0.0014	mg/L	-0.0014	mg/L	15:12:21
2	Cu 324.752†	2495.8	88.0	-0.0005	mg/L	-0.0005	mg/L	15:12:21
2	Fe 234.349†	1421.4	47.7	-0.0089	mg/L	-0.0089	mg/L	15:12:41
2	Fe 238.204†	925.3	28.4	-0.0098	mg/L	-0.0098	mg/L	15:12:41
2	Mg 279.077†	584.8	-59.0	-0.0238	mg/L	-0.0238	mg/L	15:12:21
2	Mn 257.610†	1569.5	-134.9	-0.0010	mg/L	-0.0010	mg/L	15:12:21
2	Mo 202.031†	32.5	-4.5	0.0003	mg/L	0.0003	mg/L	15:12:41
2	Ni 231.604†	46.6	6.7	-0.0024	mg/L	-0.0024	mg/L	15:12:41
2	P 214.914†	48.2	6.8	0.0305	mg/L	0.0305	mg/L	15:12:41
2	Pb 220.353†	-158.0	-8.4	-0.0015	mg/L	-0.0015	mg/L	15:12:41
2	Sb 206.836†	8.6	-3.0	0.0007	mg/L	0.0007	mg/L	15:12:41
2	Se 196.026†	-8.5	-1.5	0.0029	mg/L	0.0029	mg/L	15:12:41

2	Sn 189.927†	98.6	12.2	-0.0056 mg/L	-0.0056 mg/L	15:12:41
2	Sr 407.771†	6410.5	-173.2	-0.0001 mg/L	-0.0001 mg/L	15:12:16
2	Ti 337.279†	-2107.0	218.7	0.0010 mg/L	0.0010 mg/L	15:12:21
2	Tl 190.801†	3.2	8.5	0.0304 mg/L	0.0304 mg/L	15:12:41
2	V 292.402†	-1547.0	21.0	0.0001 mg/L	0.0001 mg/L	15:12:21
2	Zn 213.857†	692.0	46.0	-0.0010 mg/L	-0.0010 mg/L	15:12:41

Mean Data: ICCB

Analyte	Mean Corrected Intensity	Calib Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
Y 371.029	3785815.3	0.987	mg/L	0.0033				0.33%
Ag 328.068†	263.6	0.0000	mg/L	0.00026	0.0000	mg/L	0.00026	683.13%
QC value within limits for Ag 328.068 Recovery = Not calculated								
Al 237.313†	10.6	0.0037	mg/L	0.00186	0.0037	mg/L	0.00186	49.70%
QC value within limits for Al 237.313 Recovery = Not calculated								
As 188.979†	-2.3	0.0007	mg/L	0.00143	0.0007	mg/L	0.00143	210.35%
QC value within limits for As 188.979 Recovery = Not calculated								
B 182.528†	8.4	0.0220	mg/L	0.00297	0.0220	mg/L	0.00297	13.51%
QC value within limits for B 182.528 Recovery = Not calculated								
Ba 233.527†	6.7	-0.0012	mg/L	0.00006	-0.0012	mg/L	0.00006	4.92%
QC value within limits for Ba 233.527 Recovery = Not calculated								
Be 313.107†	38.3	0.0001	mg/L	0.00001	0.0001	mg/L	0.00001	11.30%
QC value within limits for Be 313.107 Recovery = Not calculated								
Ca 315.886†	100.2	0.0125	mg/L	0.00052	0.0125	mg/L	0.00052	4.17%
QC value within limits for Ca 315.886 Recovery = Not calculated								
Cd 228.802†	-7.8	0.0000	mg/L	0.00007	0.0000	mg/L	0.00007	349.42%
QC value within limits for Cd 228.802 Recovery = Not calculated								
Co 228.616†	4.8	0.0005	mg/L	0.00000	0.0005	mg/L	0.00000	0.28%
QC value within limits for Co 228.616 Recovery = Not calculated								
Cr 267.716†	26.0	-0.0017	mg/L	0.00038	-0.0017	mg/L	0.00038	22.90%
QC value within limits for Cr 267.716 Recovery = Not calculated								
Cu 324.752†	85.6	-0.0005	mg/L	0.00001	-0.0005	mg/L	0.00001	2.50%
QC value within limits for Cu 324.752 Recovery = Not calculated								
Fe 234.349†	42.9	-0.0090	mg/L	0.00012	-0.0090	mg/L	0.00012	1.33%
QC value within limits for Fe 234.349 Recovery = Not calculated								
Fe 238.204†	18.2	-0.0099	mg/L	0.00012	-0.0099	mg/L	0.00012	1.23%
QC value within limits for Fe 238.204 Recovery = Not calculated								
K 766.490†	154.5	0.2146	mg/L	0.00075	0.2146	mg/L	0.00075	0.35%
QC value greater than the upper limit for K 766.490 Recovery = Not calculated								
Li 670.784†	37.0	0.0001	mg/L	0.00066	0.0001	mg/L	0.00066	>999.9%
QC value within limits for Li 670.784 Recovery = Not calculated								
Mg 279.077†	-44.0	-0.0232	mg/L	0.00082	-0.0232	mg/L	0.00082	3.53%
QC value less than the lower limit for Mg 279.077 Recovery = Not calculated								
Mn 257.610†	-156.4	-0.0010	mg/L	0.00003	-0.0010	mg/L	0.00003	3.30%
QC value within limits for Mn 257.610 Recovery = Not calculated								
Mo 202.031†	-11.6	-0.0001	mg/L	0.00063	-0.0001	mg/L	0.00063	497.69%
QC value within limits for Mo 202.031 Recovery = Not calculated								
Na 589.592	-475.6	-0.1442	mg/L	0.00498	-0.1442	mg/L	0.00498	3.45%
QC value within limits for Na 589.592 Recovery = Not calculated								
Ni 231.604†	-0.4	-0.0026	mg/L	0.00029	-0.0026	mg/L	0.00029	10.89%
QC value less than the lower limit for Ni 231.604 Recovery = Not calculated								
P 214.914†	9.6	0.0323	mg/L	0.00253	0.0323	mg/L	0.00253	7.83%
QC value within limits for P 214.914 Recovery = Not calculated								
Pb 220.353†	-12.6	-0.0019	mg/L	0.00064	-0.0019	mg/L	0.00064	33.28%
QC value within limits for Pb 220.353 Recovery = Not calculated								
Sb 206.836†	-1.3	0.0014	mg/L	0.00109	0.0014	mg/L	0.00109	75.24%
QC value within limits for Sb 206.836 Recovery = Not calculated								
Se 196.026†	-0.4	0.0040	mg/L	0.00168	0.0040	mg/L	0.00168	41.61%
QC value within limits for Se 196.026 Recovery = Not calculated								
Sn 189.927†	12.7	-0.0055	mg/L	0.00017	-0.0055	mg/L	0.00017	3.07%
QC value within limits for Sn 189.927 Recovery = Not calculated								
Sr 407.771†	-256.3	-0.0001	mg/L	0.00000	-0.0001	mg/L	0.00000	3.26%
QC value within limits for Sr 407.771 Recovery = Not calculated								
Ti 337.279†	135.6	0.0009	mg/L	0.00014	0.0009	mg/L	0.00014	14.61%
QC value within limits for Ti 337.279 Recovery = Not calculated								
Tl 190.801†	9.0	0.0308	mg/L	0.00062	0.0308	mg/L	0.00062	2.00%
QC value greater than the upper limit for Tl 190.801 Recovery = Not calculated								
V 292.402†	15.2	0.0001	mg/L	0.00004	0.0001	mg/L	0.00004	81.53%
QC value within limits for V 292.402 Recovery = Not calculated								
Zn 213.857†	49.1	-0.0009	mg/L	0.00005	-0.0009	mg/L	0.00005	5.89%
QC value within limits for Zn 213.857 Recovery = Not calculated								

QC Failed. Continue with analysis.

Sequence No.: 27
Sample ID: 0606155-01
Analyst:
Initial Sample Wt:
Dilution:

Autosampler Location: 19
Date Collected: 6/12/2006 3:14:19 PM
Data Type: Original
Initial Sample Vol:
Sample Prep Vol:

Replicate Data: 0606155-01

Repl#	Analyte	Net Intensity	Corrected Intensity	Calib. Conc.	Calib. Units	Sample Conc.	Sample Units	Analysis Time
1	K 766.490†	9796.8	10201.9	5.176	mg/L	5.176	mg/L	15:15:58
1	Li 670.784†	2856.8	2951.4	0.0784	mg/L	0.0784	mg/L	15:15:58
1	Na 589.592	58314.1	57123.9	6.888	mg/L	6.888	mg/L	15:15:58
1	Y 371.029	3497630.4	3497630.4	0.912	mg/L			15:16:58
1	Ag 328.068†	2093.5	4906.7	0.0639	mg/L	0.0639	mg/L	15:16:58
1	Al 237.313†	647521.2	710028.0	77.96	mg/L	77.96	mg/L	15:16:36
1	As 188.979†	212.1	222.8	0.2740	mg/L	0.2740	mg/L	15:17:18
1	B 182.528†	120.9	139.8	0.2824	mg/L	0.2824	mg/L	15:17:18
1	Ba 233.527†	375398.8	411736.8	3.408	mg/L	3.408	mg/L	15:16:58
1	Be 313.107†	5288.0	4813.0	0.0062	mg/L	0.0062	mg/L	15:16:58
1	Ca 315.886†	20106823.0	22040761.5	135.7	mg/L	135.7	mg/L	15:16:36
1	Cd 228.802†	2108.9	2178.7	0.0558	mg/L	0.0558	mg/L	15:17:18
1	Co 228.616†	7208.7	8094.8	0.1905	mg/L	0.1905	mg/L	15:17:18
1	Cr 267.716†	88744.1	95557.3	0.6377	mg/L	0.6377	mg/L	15:16:58
1	Cu 324.752†	584505.6	638353.3	2.725	mg/L	2.725	mg/L	15:16:58
1	Fe 234.349†	60167793.9	65959918.2	1202	mg/L	1202	mg/L	15:16:36
1	Fe 238.204†	70242094.6	77004748.1	645.7	mg/L	645.7	mg/L	15:16:49
1	Mg 279.077†	439002.7	480624.2	18.31	mg/L	18.31	mg/L	15:16:58
1	Mn 257.610†	8188999.7	8975791.7	9.562	mg/L	9.562	mg/L	15:16:36
1	Mo 202.031†	2673.9	2894.0	0.1834	mg/L	0.1834	mg/L	15:16:58
1	Ni 231.604†	26965.3	29521.3	0.8460	mg/L	0.8460	mg/L	15:16:58
1	P 214.914†	24020.9	26292.0	17.29	mg/L	17.29	mg/L	15:17:18
1	Pb 220.353†	52964.3	58215.4	6.128	mg/L	6.128	mg/L	15:16:58
1	Sb 206.836†	-238.3	-272.9	-0.1332	mg/L	-0.1332	mg/L	15:17:18
1	Se 196.026†	14.6	23.1	0.0295	mg/L	0.0295	mg/L	15:17:18
1	Sn 189.927†	24826.6	27129.8	6.479	mg/L	6.479	mg/L	15:17:18
1	Sr 407.771†	Saturated2	Saturated2					15:17:18
Saturated in preshot (code 2)								
1	Ti 337.279†	1558463.9	1710875.1	1.985	mg/L	1.985	mg/L	15:16:58
1	Tl 190.801†	-316.5	-341.7	-0.1075	mg/L	-0.1075	mg/L	15:17:18
1	V 292.402†	102021.2	113429.0	0.2819	mg/L	0.2819	mg/L	15:16:58
1	Zn 213.857†	689783.5	755549.0	8.709	mg/L	8.709	mg/L	15:16:58
2	K 766.490†	9918.9	10283.2	5.216	mg/L	5.216	mg/L	15:16:03
2	Li 670.784†	2900.4	2983.9	0.0793	mg/L	0.0793	mg/L	15:16:03
2	Na 589.592	58408.4	57218.2	6.900	mg/L	6.900	mg/L	15:16:03
2	Y 371.029	3514582.9	3514582.9	0.917	mg/L			15:18:09
2	Ag 328.068†	1473.4	4219.2	0.0615	mg/L	0.0615	mg/L	15:18:09
2	Al 237.313†	648893.9	708101.6	77.74	mg/L	77.74	mg/L	15:17:47
2	As 188.979†	206.2	215.2	0.2647	mg/L	0.2647	mg/L	15:18:29
2	B 182.528†	114.9	132.6	0.2681	mg/L	0.2681	mg/L	15:18:29
2	Ba 233.527†	376539.6	410996.3	3.402	mg/L	3.402	mg/L	15:18:09
2	Be 313.107†	5350.2	4852.9	0.0062	mg/L	0.0062	mg/L	15:18:09
2	Ca 315.886†	20142447.9	21973304.9	135.2	mg/L	135.2	mg/L	15:17:47
2	Cd 228.802†	2090.4	2147.3	0.0552	mg/L	0.0552	mg/L	15:18:29
2	Co 228.616†	7182.9	8028.4	0.1889	mg/L	0.1889	mg/L	15:18:29
2	Cr 267.716†	88820.4	95171.3	0.6353	mg/L	0.6353	mg/L	15:18:09
2	Cu 324.752†	586282.1	637200.6	2.720	mg/L	2.720	mg/L	15:18:09
2	Fe 234.349†	60325349.8	65813649.0	1199	mg/L	1199	mg/L	15:17:47
2	Fe 238.204†	70508413.6	76923867.3	645.1	mg/L	645.1	mg/L	15:18:00
2	Mg 279.077†	441271.9	480778.4	18.32	mg/L	18.32	mg/L	15:18:09
2	Mn 257.610†	8206909.4	8952028.3	9.537	mg/L	9.537	mg/L	15:17:47
2	Mo 202.031†	2694.3	2902.2	0.1839	mg/L	0.1839	mg/L	15:18:09
2	Ni 231.604†	26685.3	29073.3	0.8331	mg/L	0.8331	mg/L	15:18:09
2	P 214.914†	24003.8	26146.4	17.19	mg/L	17.19	mg/L	15:18:29
2	Pb 220.353†	53460.7	58477.0	6.156	mg/L	6.156	mg/L	15:18:09
2	Sb 206.836†	-251.1	-285.6	-0.1388	mg/L	-0.1388	mg/L	15:18:29
2	Se 196.026†	15.3	23.9	0.0303	mg/L	0.0303	mg/L	15:18:29
2	Sn 189.927†	24831.0	27003.3	6.449	mg/L	6.449	mg/L	15:18:29
2	Sr 407.771†	Saturated2	Saturated2					15:18:29

ANALYSIS SEQUENCE

BPG0166

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0166-CAL1	QC		1		6F05068		
BPG0166-CAL2	QC		2		6F10016		
BPG0166-CAL3	QC		3		6F10011		
BPG0166-CAL4	QC		4		6F10012		
BPG0166-CAL5	QC		5		6F10013		
BPG0166-ICV1	QC		6		6F10012		
BPG0166-SCV1	QC		7		6F10019		
BPG0166-ICB1	QC		8				
BF60721-BLK4	QC		9				
BF60721-BS4	QC		10				
BF60721-BSD4	QC		11				
BPG0166-CCB1	QC		12				
BPG0166-CCV1	QC		13		6F10012		
BF60721-SRM4	QC		14				
BF60721-DUP4	QC		15				
BF60721-MS4	QC		16				
BF60721-PS4	QC		17				
0606078-01	Tl: ppm Thallium 7841	F	18				MACTEC Engineering & Consulting, In
0606078-02	Tl: ppm Thallium 7841	F	19				MACTEC Engineering & Consulting, In
0606078-03	Tl: ppm Thallium 7841	F	20				MACTEC Engineering & Consulting, In
0606078-04	Tl: ppm Thallium 7841	F	21				MACTEC Engineering & Consulting, In
0606078-05	Tl: ppm Thallium 7841	F	22				MACTEC Engineering & Consulting, In
0606078-08	Tl: ppm Thallium 7841	F	23				MACTEC Engineering & Consulting, In
BPG0166-CCB2	QC		24				
BPG0166-CCV2	QC		25		6F10012		
0606078-09	Tl: ppm Thallium 7841	F	26				MACTEC Engineering & Consulting, In
0606078-10	Tl: ppm Thallium 7841	F	27				MACTEC Engineering & Consulting, In
0606078-17	Tl: ppm Thallium 7841	F	28				MACTEC Engineering & Consulting, In
0606113-01	Tl: ppm Thallium 7841	F	29				MACTEC Engineering & Consulting, In
0606113-03	Tl: ppm Thallium 7841	F	30				MACTEC Engineering & Consulting, In
0606113-04	Tl: ppm Thallium 7841	F	31				MACTEC Engineering & Consulting, In
0606113-05	Tl: ppm Thallium 7841	F	32				MACTEC Engineering & Consulting, In
BPG0166-CCB3	QC		33				

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0166

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0166-CCV3	QC		34		6F10012		
BPG0166-SRD1	QC		35				
BPG0166-CCV4	QC		36		6F10012		
BPG0166-CCV5	QC		37		6F10012		
BPG0166-CCV6	QC		38		6F10012		
BPG0166-CCB4	QC		39				
BPG0166-CCB5	QC		40				
BPG0166-CCB6	QC		41				

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GFAA Data Review Check List

SIF Method: T12, Sb **Run Date:** 6/10/06

Project Number(s): 06078, 88, 122 /113-01, 03, 04, 05

Batch Number (s): 061006Y4

SOP NO. 30_2009

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the cal curve consist of four Calibration Standards including a blank and is its correlation within QC limits (≥0.995)?	X		
2. Is the low calibration standard at the reporting limit?	X		
3. If the low standard is above the reporting limit, is a CRI analyzed at the beginning of the run? Does the recovery meet QC limits(80-120%)?			X
4. Is the midpoint calibration standard reanalyzed immediately after the curve and is it within QC limits of 90-110% (± 5% for 200.9)?	X		
5. Is the ICV from a second source and is its recovery within QC limits (90-110%)	X		
6. Is the mid-point calibration standard re-analyzed every 10 samples and at the end of the run and are its recoveries within QC limits (90-110%)? 6/12/06 TW	X	X	
7. Is the CCB analyzed at beginning, after every 10 samples and at end of the run and are its recoveries within QC limits (<2xMDL)?	X		
8. Are the method blank recoveries within QC limits?	X		
9. Are the LCS and ERA recoveries within QC limits (LCS: 80-120% for 7000, 85-115% for 200.9, ERA see COA)?	X		
10. Are matrix dups run at desired frequency (1 per 10 samples or per analytical batch) and are RPD's within QC limits (<20%)?	X		
11. Are matrix spikes run at desired frequency frequency (1 per 10 samples or per analytical batch) and are recoveries within QC limits (80-120%)?	X		
12. Are all samples with concentrations > the highest calibration standard diluted and reanalyzed?			X
13. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion (± 10%RPD)?	X		
14. Is the batch post digestion spike within QC limits (85-115%)?	X		
15. Are all sample hold times met?	X		
16. Are all non-conformances included and noted?	X		
17. Is the correct methodology used for sample prep and analysis?	X		
18. Are all calculations checked?	X		
19. Did analyst sign/date appropriate printouts and report sheets?	X		
20. Are all samples located in the correct auto-sampler locations?	X		

Comments on any "No" response:

T1: CCVs out, re-run affected samples (06113-06 to end)

Sb: re-run BF60901-BS2 => Bad Burn

T1: re-run BF60904-BS2, BF60914-BS1, BSD1, SRM1 => bad burns

Analyst: SW Date: 6/12/06 2nd Rvw: EEm Date: 6/12/06

Control Number: 30.0022-0601A Page _____

Autosampler Loading List

Sample Information File: 061006YA.SIF
Methods: Tl 2 ~~Pb 2~~ ~~As 5~~ Sb 5 ~~Se 5~~

Location	Elements	Solution
1	Tl	Sample: bf60721-blk1
2	Tl	Sample: bf60721-bs1 x20
3	Tl	Sample: bf60721-bsd1 x20
4	Tl	Sample: bf60721-srm1 x50
5	Tl ~~,As~~	Sample: 0606078-01 x5
6	Tl	Sample: 0606078-02 x5
7	Tl	Sample: 0606078-03 x5
8	Tl	Sample: 0606078-04 x5
9	Tl	Sample: 0606078-05 x5
10	Tl	Sample: bf60721-dup1 x5
11	Tl	Sample: bf60721-ms1 x20
12	Tl	Sample: bf60721-msd1 x20
13	Tl	Sample: bf60721-sd1 x25
14	Tl	Sample: 0606078-08 x5
15	Tl	Sample: 0606078-09 x5
16	Tl	Sample: 0606078-10 x5
17	Tl	Sample: 0606078-17 x5
18	~~Pb~~	Sample: BF60708-blk1
19	~~Pb~~	Sample: BF60708-bs2
20	~~Pb~~	Sample: BF60708-bsd2
21	~~Pb~~	Sample: 0606082-01
22	Tl,Pb,As,Sb,~~Se~~	Sample: ~~BF60914-blk1~~ BF60904-BLK1
23	~~Tl~~,Pb,As,Sb,~~Se~~	Sample: ~~BF60914-bs2~~ BF60904-BS2
24	Tl,Pb,As,~~Sb~~,~~Se~~	Sample: ~~BF60614-bsd2~~ BF60904-BSD2
25	Tl,Pb,As,Sb	Sample: 0606088-01
26	Tl,As,~~Se~~	Sample: 0606122-01
27	Tl,As	Sample: BF60914-blk1
28	~~Tl~~,As	Sample: BF60914-bs1 x20
29	~~Tl~~,As	Sample: BF69014-bsd1 x20
30	~~Tl~~,As	Sample: BF60914-srm1 x50
31	Tl,As	Sample: 0606113-01 x5
32	Tl,As	Sample: 0606113-03 x5
33	Tl,As	Sample: 0606113-04 x5
34	Tl,As	Sample: 0606113-05 x5
35	~~Tl~~,As	Sample: 0606113-06 x5
36	Tl,As	Sample: 0606113-07 x5
37	Tl,As	Sample: 0606113-08 x5
38	Tl,As	Sample: 0606113-09 x5
39	Tl,As	Sample: 0606113-10 x5
40	Tl,As	Sample: 0606113-11 x5
41	Tl,As	Sample: BF60914-dup1 x5
42	~~Tl~~,As	Sample: BF60914-ms1 x20
43	~~Tl~~,As	Sample: BF60914-sd1 x25
44	~~Tl~~,As	Sample: 0606113-12 x5
45	~~Tl~~,As	Sample: 0606113-13 x5
46	~~Tl~~,As	Sample: 0606113-14 x5
47	~~Tl~~,As	Sample: 0606113-16 x5
121	Tl,Pb,As,Sb	Stock Standard: 5.0 µg/L
	Se	Stock Standard: 10.0 µg/L
124	Tl,Pb,As,Sb	Stock Standard: 10.0 µg/L
	Tl	STD 3: 10.0000 µg/L
	Tl	CCV: 10.0000 µg/L
	Se	Stock Standard: 20.0 µg/L
126	Tl,Pb,As,Sb	Stock Standard: 25.0 µg/L
	Pb,As,Sb	STD 3: 25.0000 µg/L
	Pb,As,Sb	CCV: 25.0000 µg/L
	Se	Stock Standard: 50.0 µg/L
	Se	STD 3: 50.0000 µg/L
	Se	CCV: 50.0000 µg/L
129	Pb,As,Sb	Stock Standard: 50.0 µg/L
	Se	Stock Standard: 100.0 µg/L

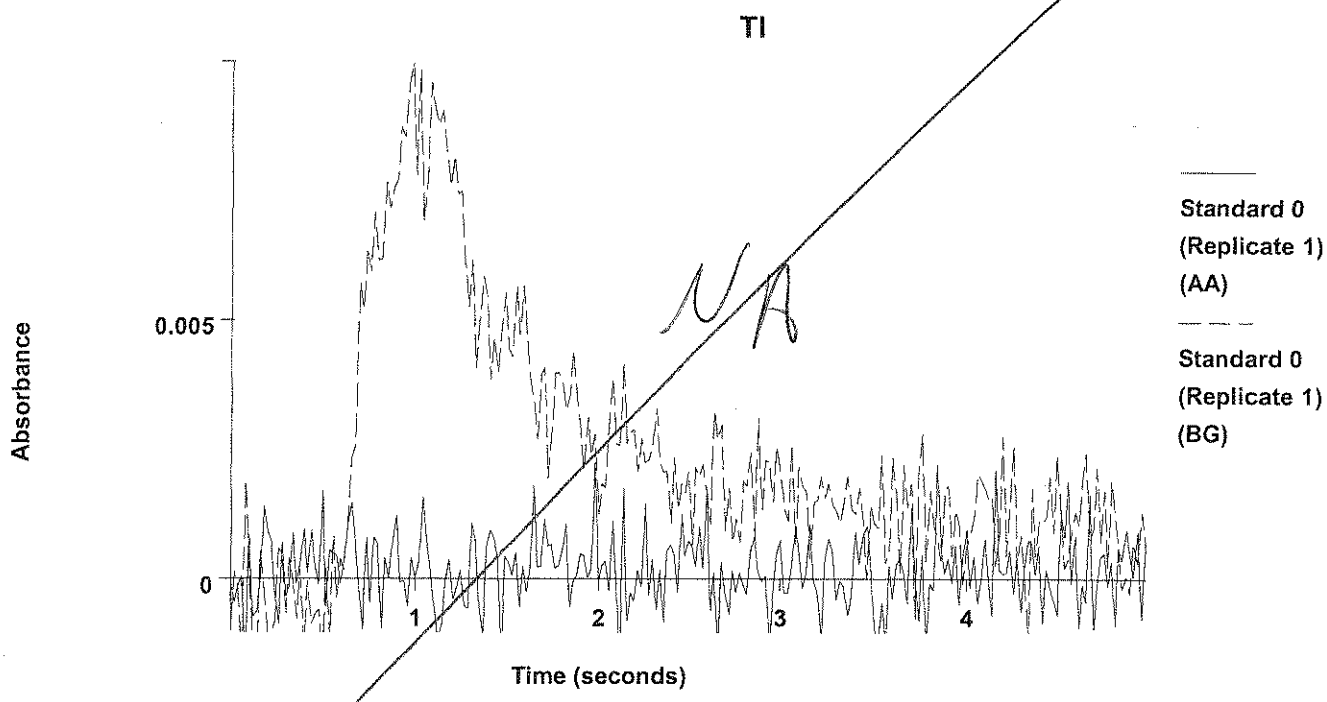
131	Tl,Pb,As,Sb	Recovery Stock: 50.0 µg/L
	Se	Recovery Stock: 100.0 µg/L
134	Pb,As,Sb	ICV: 25.0000 µg/L
	Se	ICV: 50.0000 µg/L
136	Tl	Stock Standard: 2.0 µg/L
	Pb,As,Sb	CRA 2: 2.0000 µg/L
	Se	CRA 4: 4.0000 µg/L
139	Tl	ICV: 10.0000 µg/L
146	Pb	Modifier 2
147	Tl,As,Sb,Se	Modifier 1
148	Tl,Pb,As,Sb,Se	Standard 0
	Tl,Pb,As,Sb,Se	ICB/CCB: 0.0000 µg/L
	Tl,Pb,As,Sb,Se	Diluent

Method Name: Tl 2
Method Description: Tl 2
Element: Tl

Date: 06/10/2006
Technique:Furnace
Calibration Type:
Tl, Calc. Intercept : Linear
Wavelength: 276.8 nm
Energy: 100
Slit Width: 0.7
Lamp Current: 6 mA
Sample Info Name: 061006YA.SIF Results Data Set Name: 061006yad

Element: Tl Seq. No.: 1 AS Loc.: 148 Date: 06/10/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0009	0.0009	0.0022	0.0118	0.0100	03:23:57	Yes

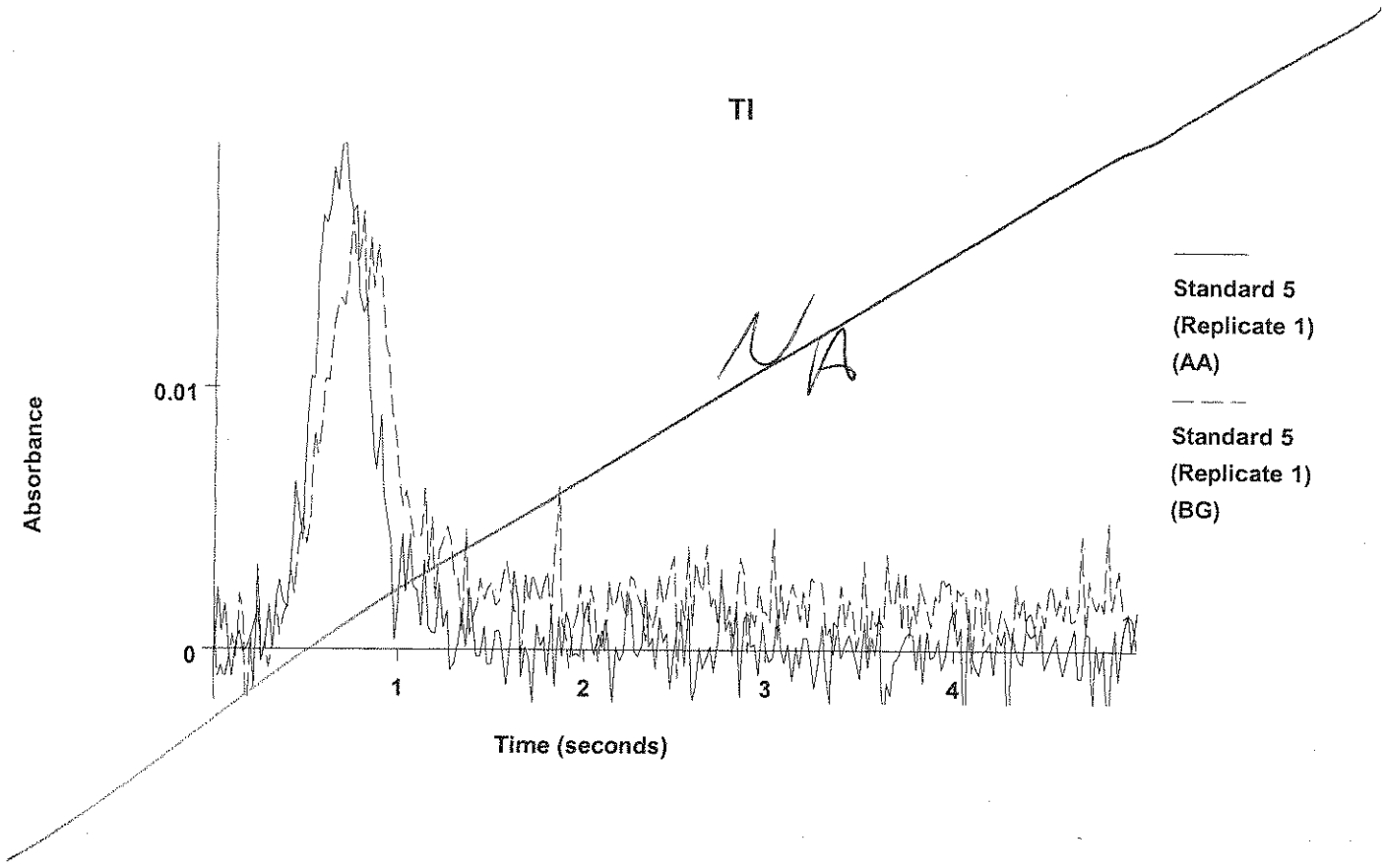


2			0.0002	0.0002	0.0024	0.0108	0.0051	03:26:47	Yes
Mean:			0.0005						
SD :			0.0005						
%RSD:			89.89						

Auto-zero performed.

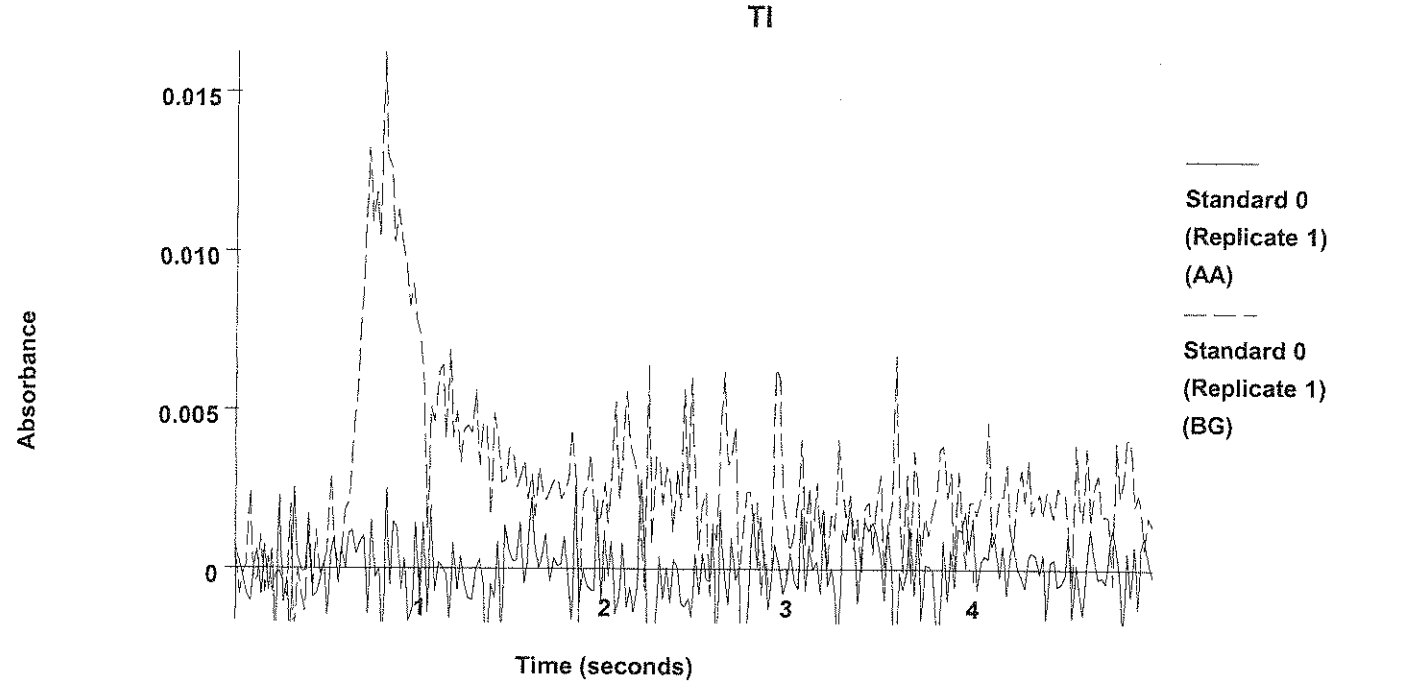
Element: Tl Seq. No.: 2 AS Loc.: 136 Date: 06/10/2006
Sample ID: Standard 2
µL dispensed: 10 from 148, 5 from 147, 15 from 136

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0032	0.0037	0.0083	0.0101	0.0088	03:30:03	Yes



Element: Tl Seq. No.: 25 AS Loc.: 148 Date: 06/10/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			-0.0001	-0.0001	0.0028	0.0139	0.0162	05:48:58	Yes



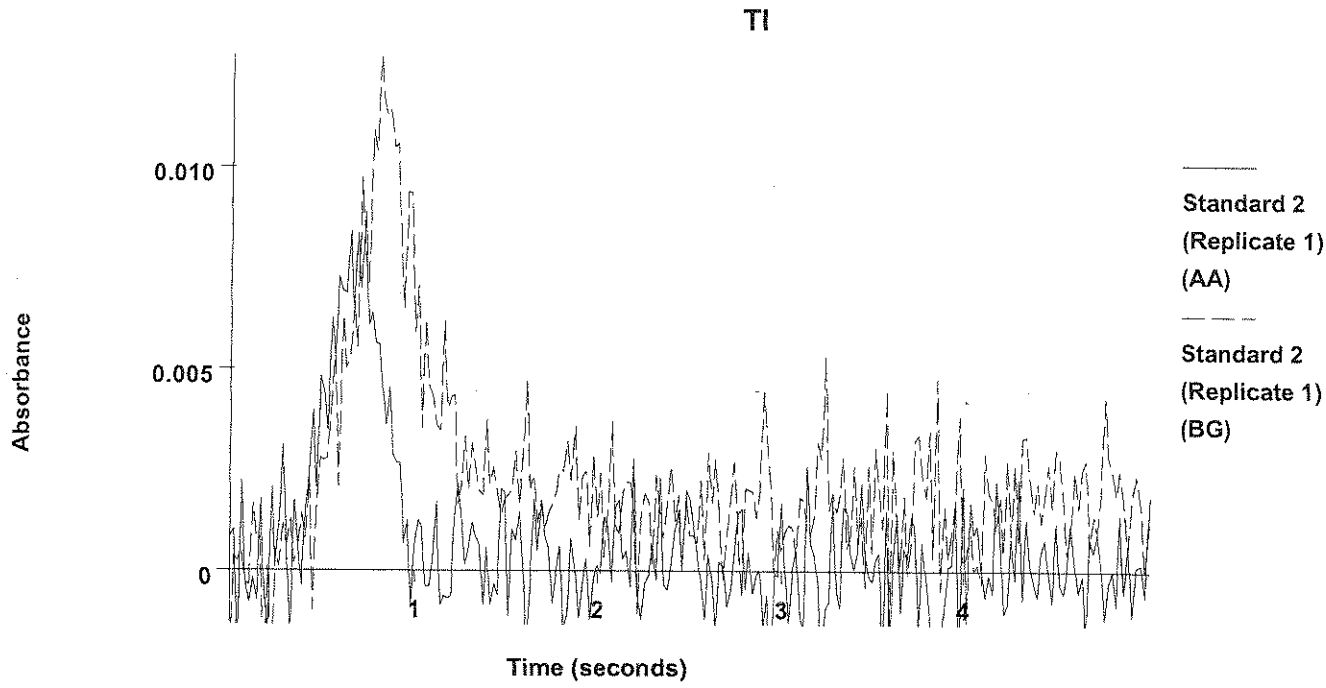
2			0.0010	0.0010	0.0042	0.0128	0.0121	05:51:48	Yes

Mean: 0.0005
SD : 0.0008
%RSD: 177.69
Auto-zero performed.

==========

Element: Tl Seq. No.: 26 AS Loc.: 136 Date: 06/10/2006
Sample ID: Standard 2
µL dispensed: 10 from 148, 5 from 147, 15 from 136

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0030	0.0035	0.0089	0.0118	0.0128	05:55:03	Yes



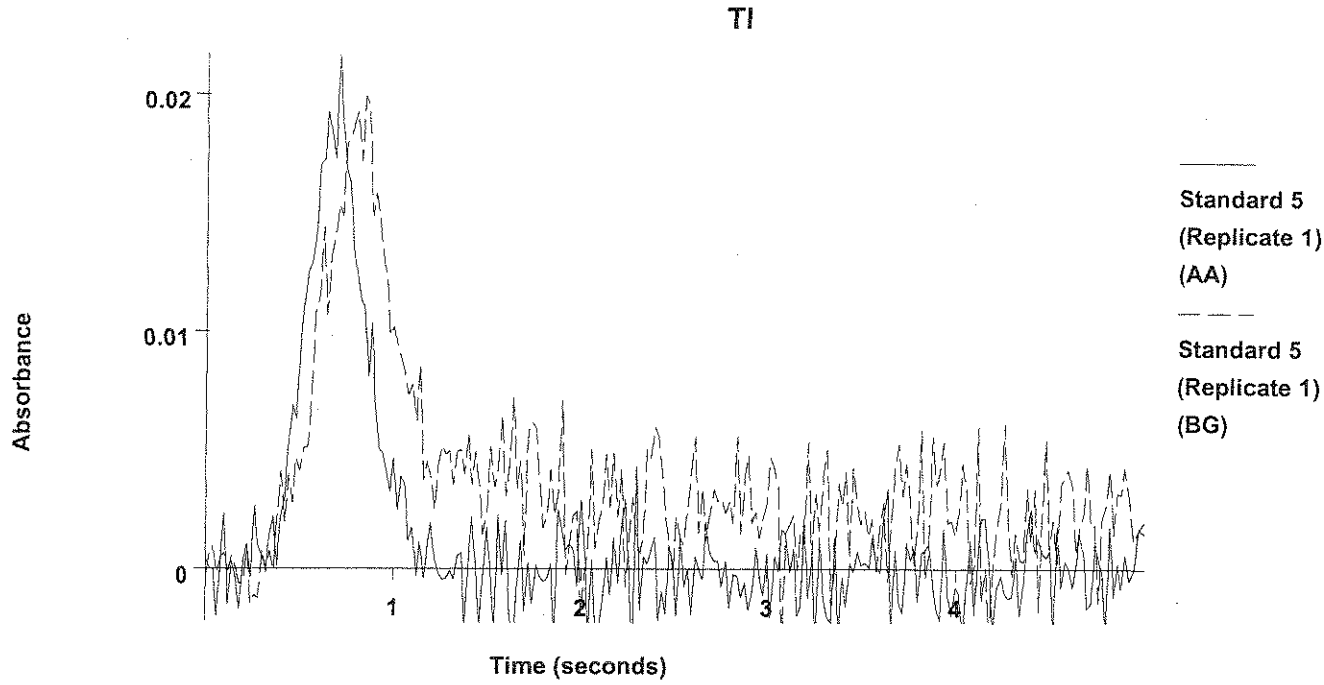
2			0.0035	0.0040	0.0102	0.0110	0.0146	05:57:52	Yes
Mean:			0.0033						
SD :			0.0003						
%RSD:			10.12						

[Tl] Standard number 1 applied. [2.0]
Correlation Coefficient: 1.00000 Slope: 0.00164
Intercept : 0.00000

==========

Element: Tl Seq. No.: 27 AS Loc.: 121 Date: 06/10/2006
Sample ID: Standard 5
µL dispensed: 10 from 148, 5 from 147, 15 from 121

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0063	0.0068	0.0217	0.0187	0.0199	06:01:08	Yes



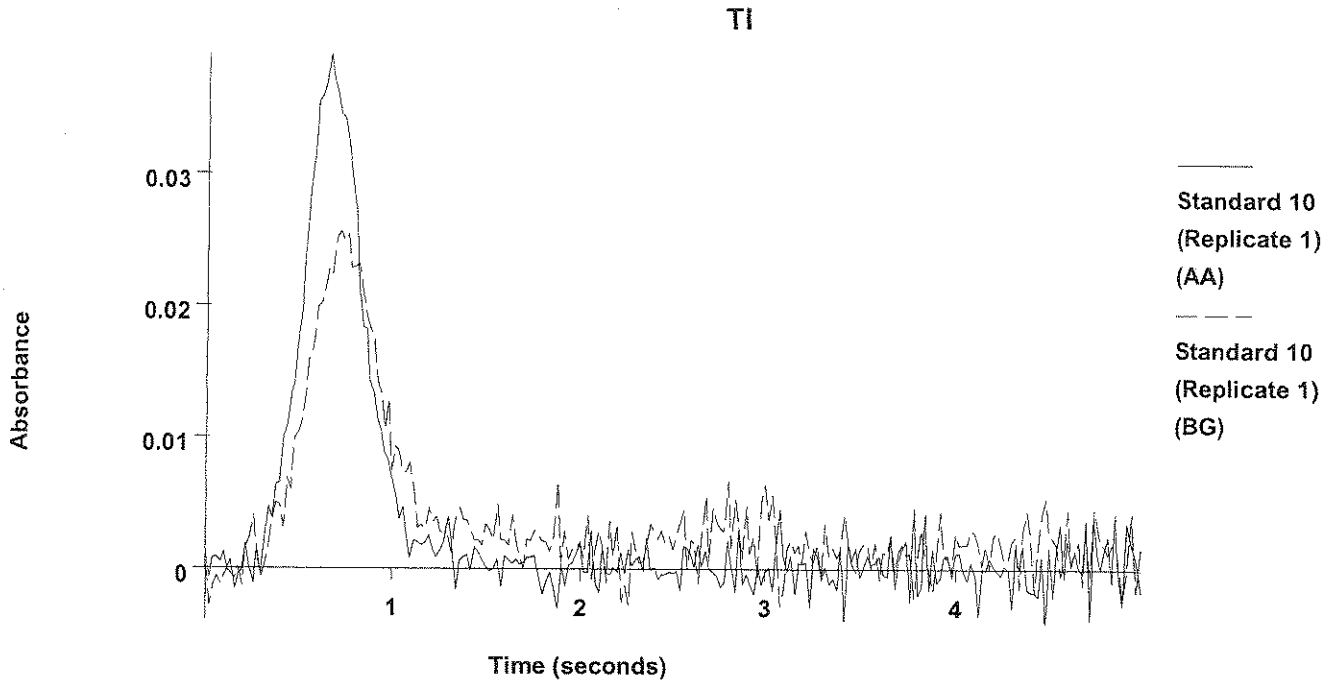
2		0.0071	0.0075	0.0198	0.0183	0.0186	06:04:00 Yes
Mean:		0.0067					
SD :		0.0005					
%RSD:		7.93					

[Tl] Standard number 2 applied. [5.0]
Correlation Coefficient: 0.99474 Slope: 0.00132
Intercept : 0.00024

==========

Element: Tl Seq. No.: 28 AS Loc.: 124 Date: 06/10/2006
Sample ID: Standard 10
µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0152	0.0157	0.0390	0.0187	0.0257	06:07:18	Yes



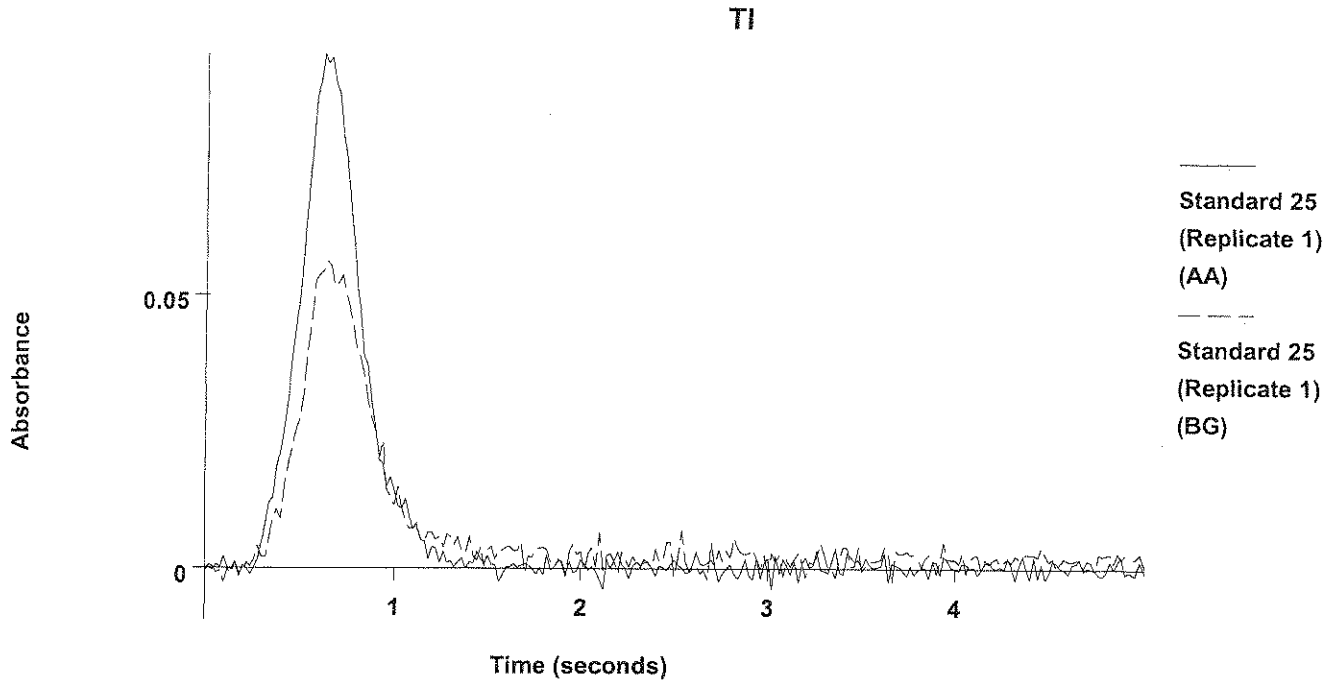
2		0.0150	0.0154	0.0389	0.0213	0.0288	06:10:11 Yes
Mean:		0.0151					
SD :		0.0002					
%RSD:		1.10					

[Tl] Standard number 3 applied. [10.0]
Correlation Coefficient: 0.99728 Slope: 0.00149
Intercept : -0.00006

==========

Element: Tl Seq. No.: 29 AS Loc.: 126 Date: 06/10/2006
Sample ID: Standard 25
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0367	0.0372	0.0941	0.0318	0.0561	06:13:29	Yes



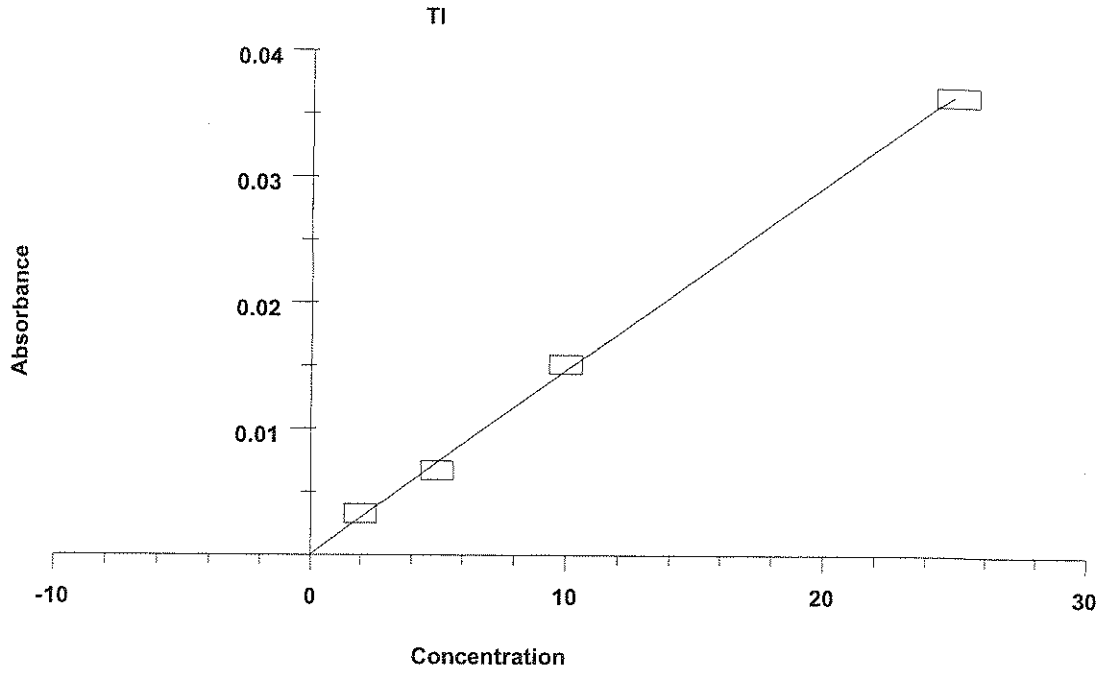
2	0.0361	0.0365	0.0950	0.0313	0.0578	06:16:22 Yes
Mean:	0.0364					
SD :	0.0005					
%RSD:	1.25					

[Tl] Standard number 4 applied. [25.0]
Correlation Coefficient: 0.99956 Slope: 0.00146
Intercept : 0.00005

Calibration data for Tl

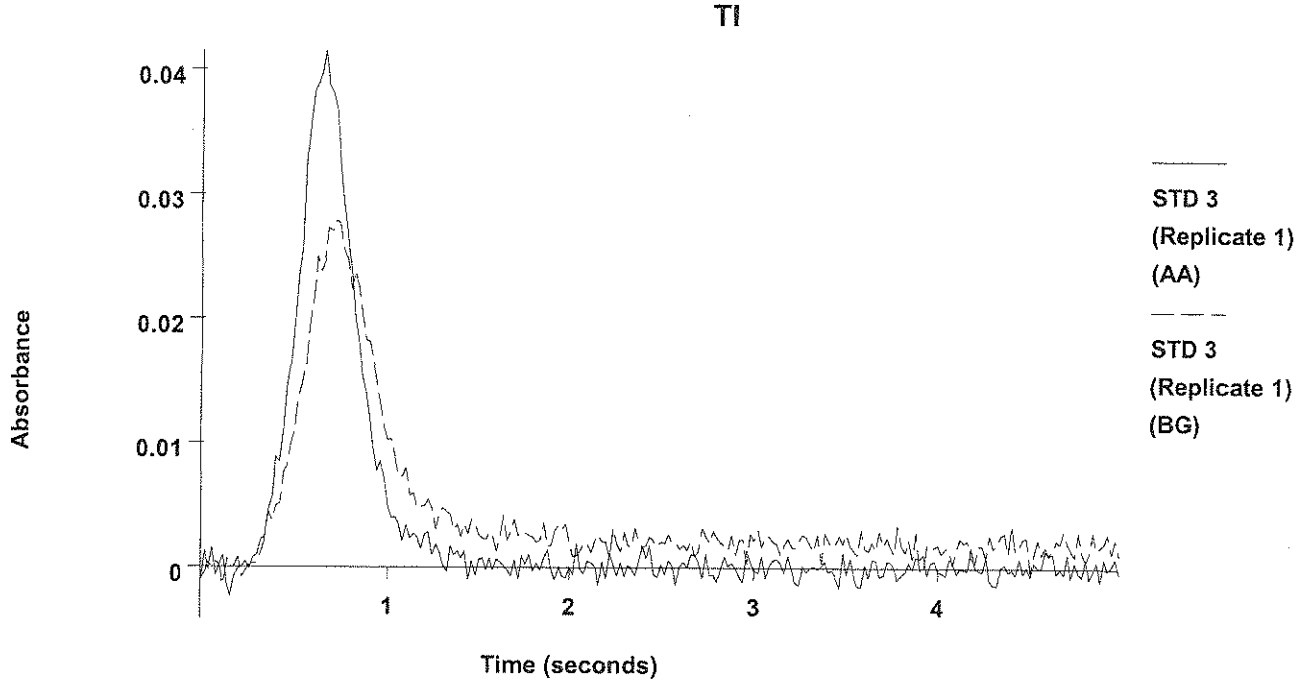
Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0005	-	----	----	----
Standard 2	0.0033	2.0	2.2	0.00	10.12
Standard 5	0.0067	5.0	4.6	0.00	7.93
Standard 10	0.0151	10.0	10.3	0.00	1.10
Standard 25	0.0364	25.0	24.9	0.00	1.25

Correlation Coefficient: 0.99956 Slope: 0.00146 Intercept: 0.0001



Element: Tl Seq. No.: 30 AS Loc.: 124 Date: 06/10/2006
Sample ID: STD 3
µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	10.1	10.1	0.0148	0.0152	0.0415	0.0207	0.0278	06:19:20	Yes



2	9.6	9.6	0.0140	0.0145	0.0393	0.0219	0.0255	06:22:13	Yes

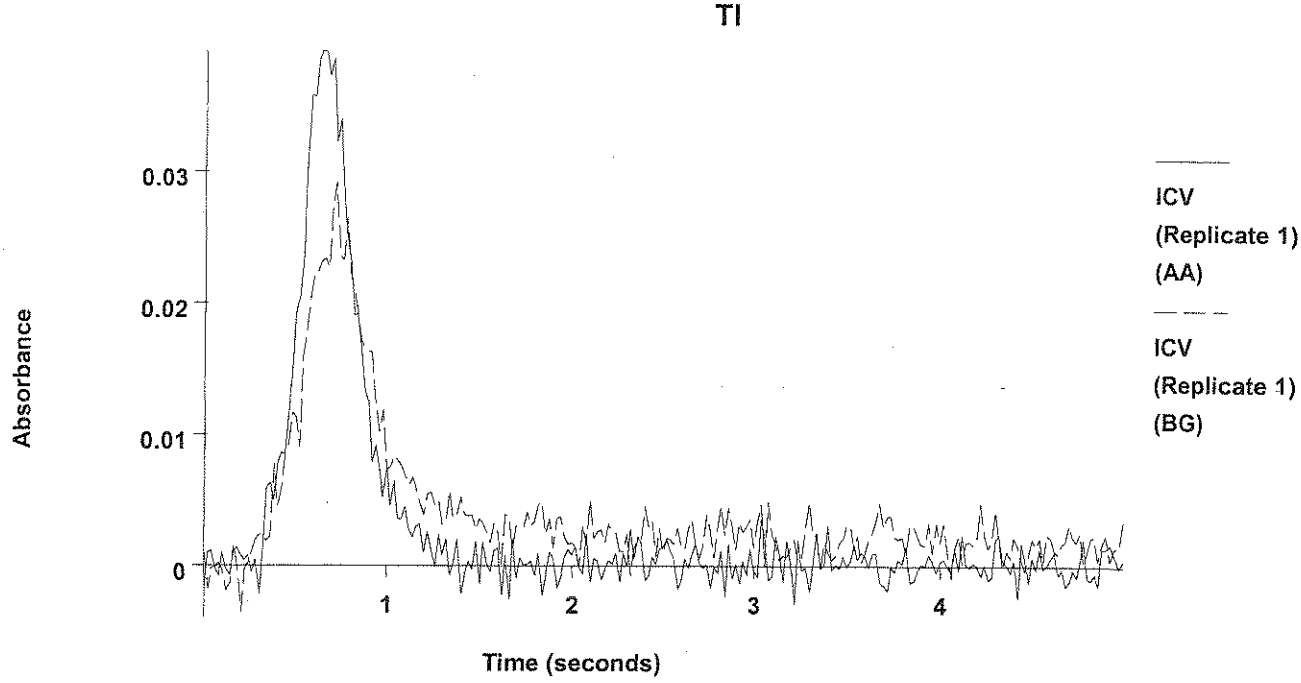
Mean:	9.8	9.8	0.0144
SD :	0.35	0.35	0.0005
%RSD:	3.52	3.52	3.51

QC value within specified limits.

==========

Element: Tl Seq. No.: 31 AS Loc.: 139 Date: 06/10/2006
Sample ID: ICV
µL dispensed: 10 from 148, 5 from 147, 15 from 139

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	10.2	10.2	0.0149	0.0154	0.0392	0.0209	0.0292	06:25:05	Yes



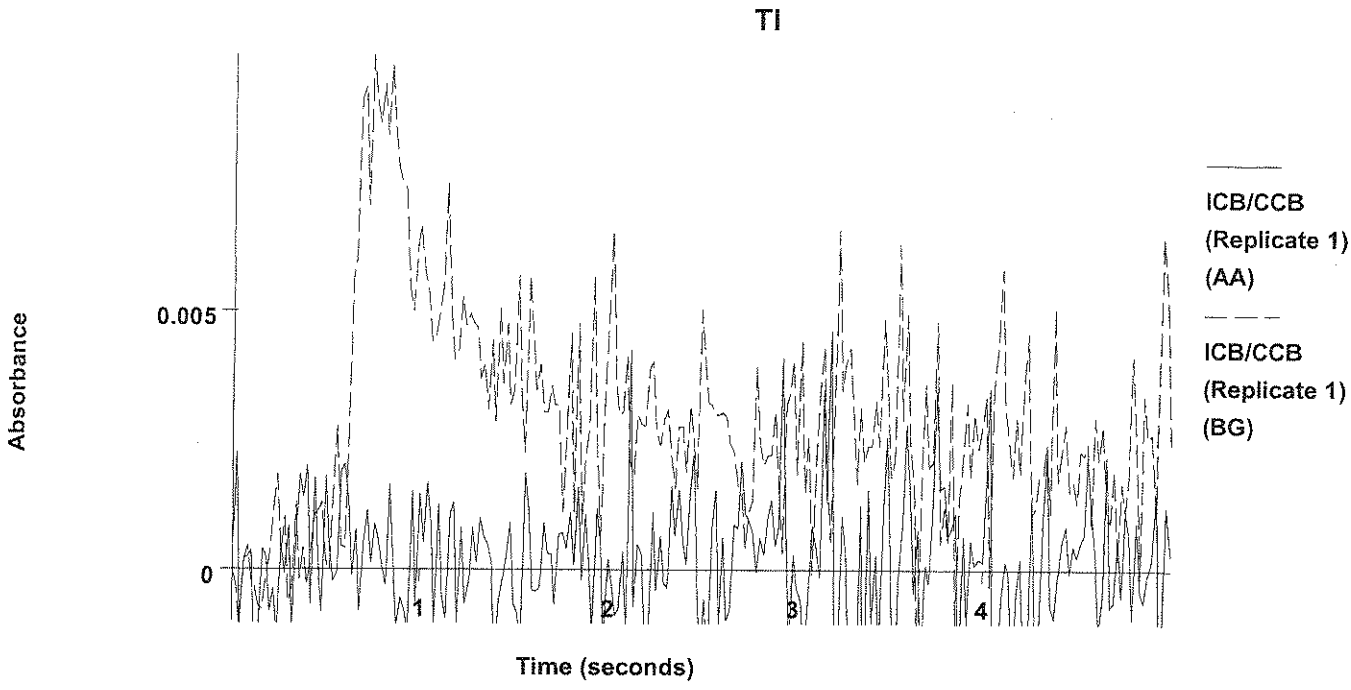
2	9.7	9.7	0.0142	0.0147	0.0399	0.0190	0.0251	06:27:56	Yes
Mean:	10.0	10.0	0.0146						
SD :	0.34	0.34	0.0005						
%RSD:	3.40	3.40	3.39						

QC value within specified limits.

==========

Element: Tl Seq. No.: 32 AS Loc.: 148 Date: 06/10/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0006	0.0010	0.0046	0.0148	0.0099	06:30:47	Yes

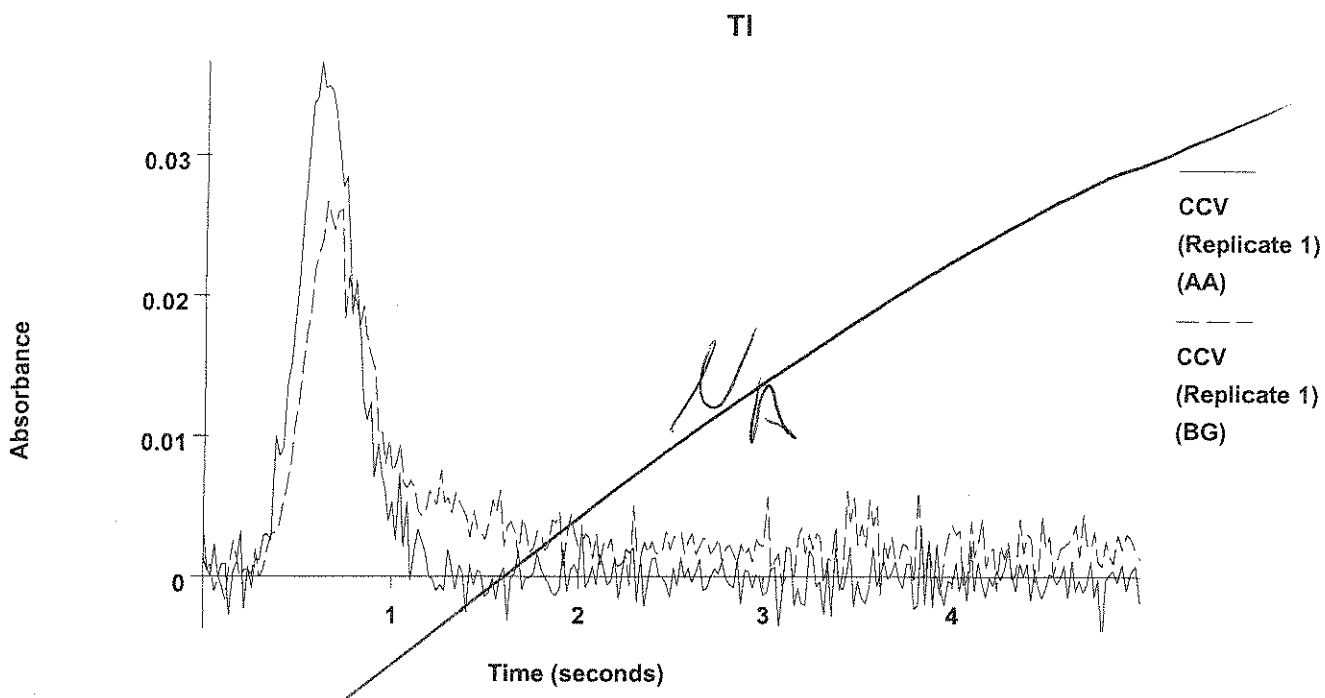


2	0.4	0.4	0.0006	0.0010	0.0039	0.0129	0.0108	06:33:39 Yes
Mean:	0.4	0.4	0.0006					
SD :	0.01	0.01	0.0000					
%RSD:	1.44	1.44	1.31					

QC value within specified limits.

Element: Tl Seq. No.: 33 AS Loc.: 1 Date: 06/10/2006
Sample ID: bf60721-blk1
µL dispensed: 10 from 148, 5 from 147, 15 from 1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.6	-0.6	-0.0009	-0.0004	0.0043	0.0107	0.0112	06:36:28	Yes



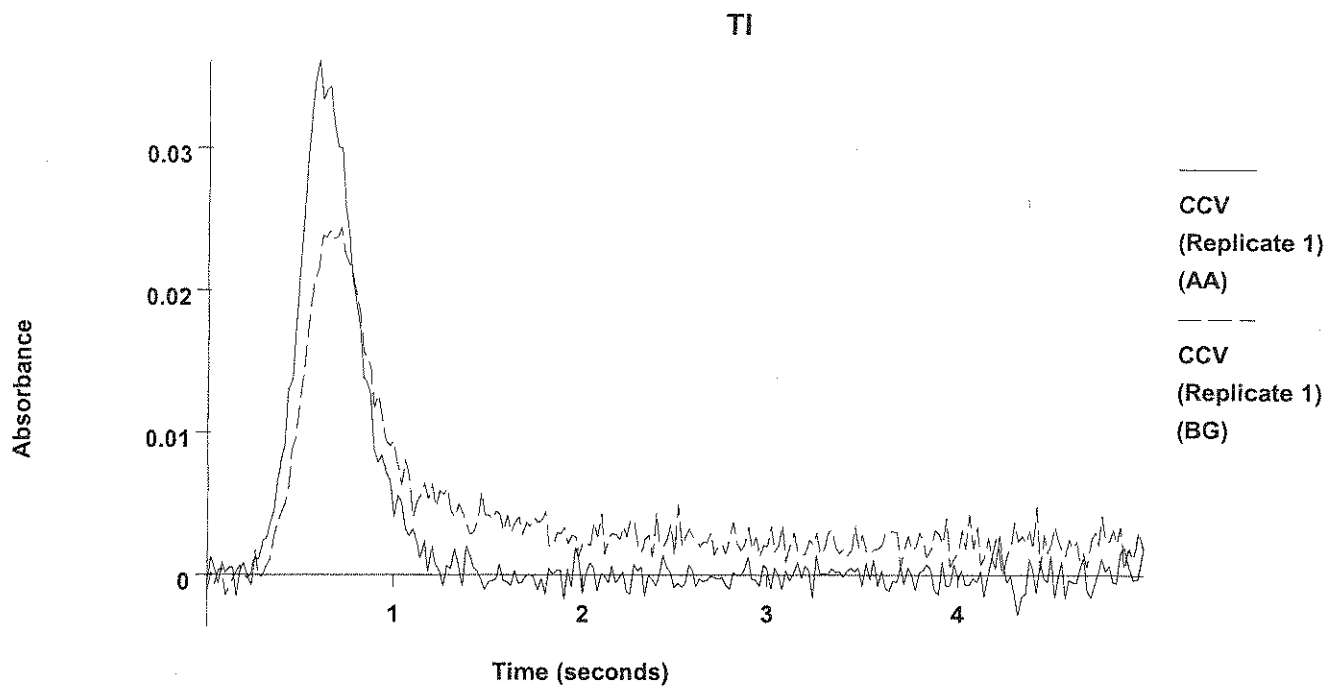
2	8.8	8.8	0.0129	0.0134	0.0372	0.0225	0.0258	09:25:58 Yes
Mean:	8.8	8.8	0.0128					
SD :	0.11	0.11	0.0002					
%RSD:	1.27	1.27	1.26					

QC failed, value less than lower limit for Tl.

==========

Element: Tl Seq. No.: 63 AS Loc.: 124 Date: 06/10/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	8.8	8.8	0.0129	0.0133	0.0361	0.0211	0.0244	09:28:51	Yes



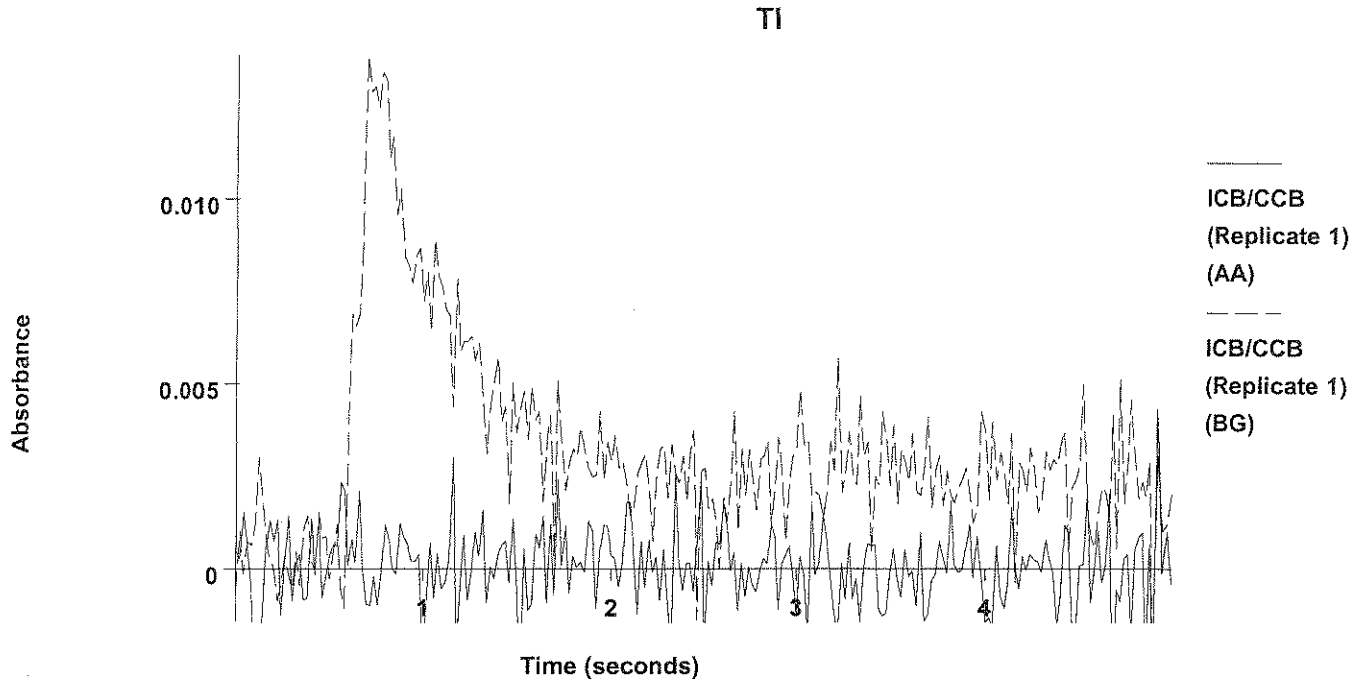
2	9.6	9.6	0.0140	0.0144	0.0379	0.0222	0.0259	09:31:43	Yes
Mean:	9.2	9.2	0.0134						
SD :	0.53	0.53	0.0008						
%RSD:	5.82	5.82	5.80						

QC value within specified limits.

==========

Element: Tl Seq. No.: 64 AS Loc.: 148 Date: 06/10/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0001	0.0003	0.0043	0.0162	0.0139	09:34:34	Yes

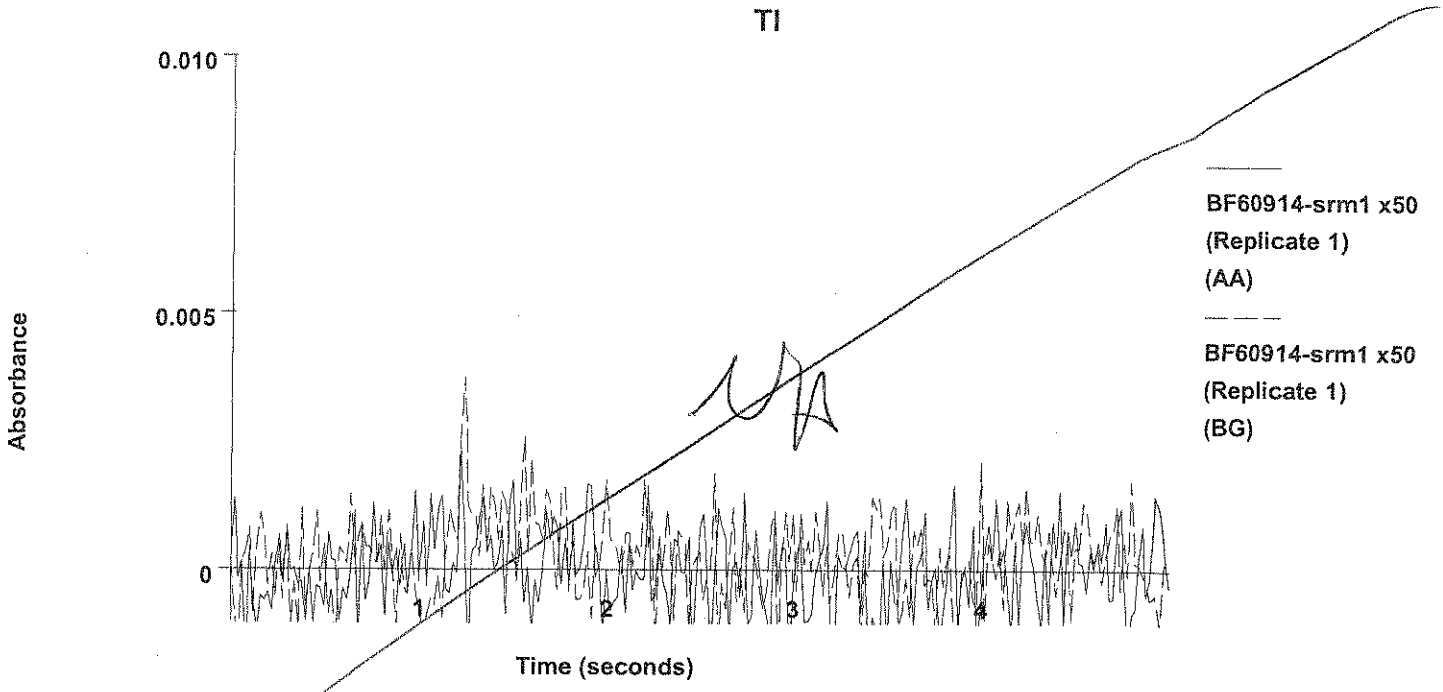


2	-0.8	-0.8	-0.0011	-0.0007	0.0037	0.0192	0.0128	09:37:25 Yes
Mean:	-0.5	-0.5	-0.0006					
SD :	0.46	0.46	0.0007					
%RSD:	99.41	99.41	107.76					

QC value within specified limits.

Element: Tl Seq. No.: 65 AS Loc.: 25 Date: 06/10/2006
Sample ID: 0606088-01
µL dispensed: 10 from 148, 5 from 147, 15 from 25

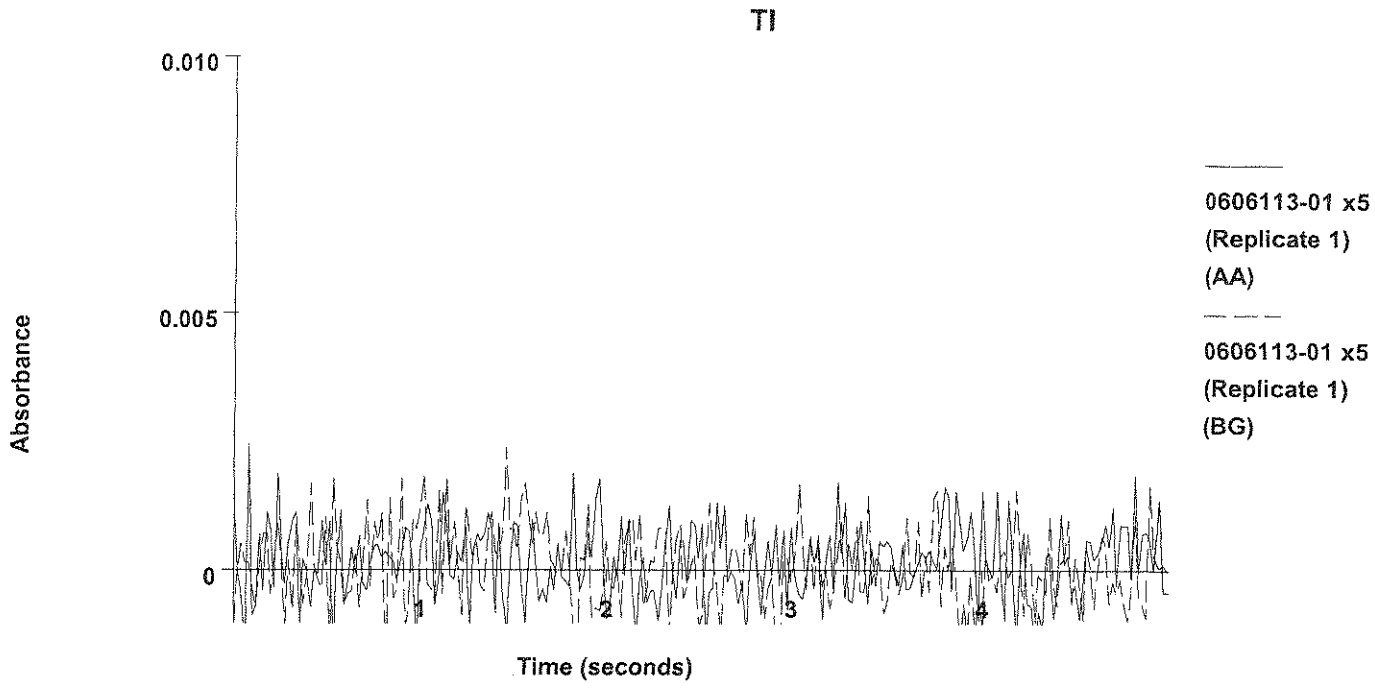
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.0	0.0	0.0001	0.0006	0.0021	0.0005	0.0052	09:40:15	Yes



2	14.5	14.5	0.0212	0.0217	0.0598	0.0256	0.0370	10:46:28	Yes
Mean:	7.1	7.1	0.0104						
SD :	10.46	10.46	0.0152						
%RSD:	146.8	146.8	146.06						

Element: Tl Seq. No.: 77 AS Loc.: 31 Date: 06/10/2006
Sample ID: 0606113-01 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 31

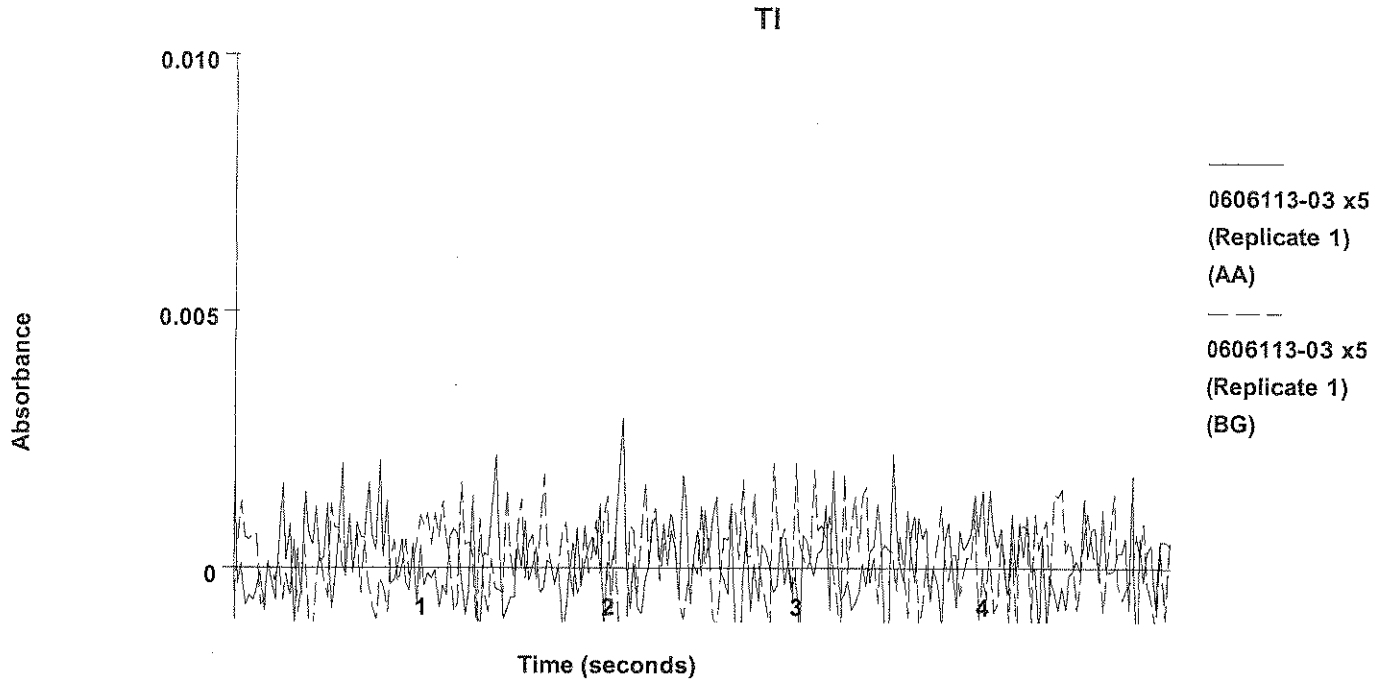
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.3	0.3	0.0004	0.0009	0.0025	0.0005	0.0024	10:49:17	Yes



2	0.3	0.3	0.0004	0.0009	0.0022	0.0002	0.0036	10:52:07 Yes
Mean:	0.3	0.3	0.0004					
SD :	0.00	0.00	0.0000					
%RSD:	0.96	0.96	0.84					

Element: Tl Seq. No.: 78 AS Loc.: 32 Date: 06/10/2006
Sample ID: 0606113-03 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 32

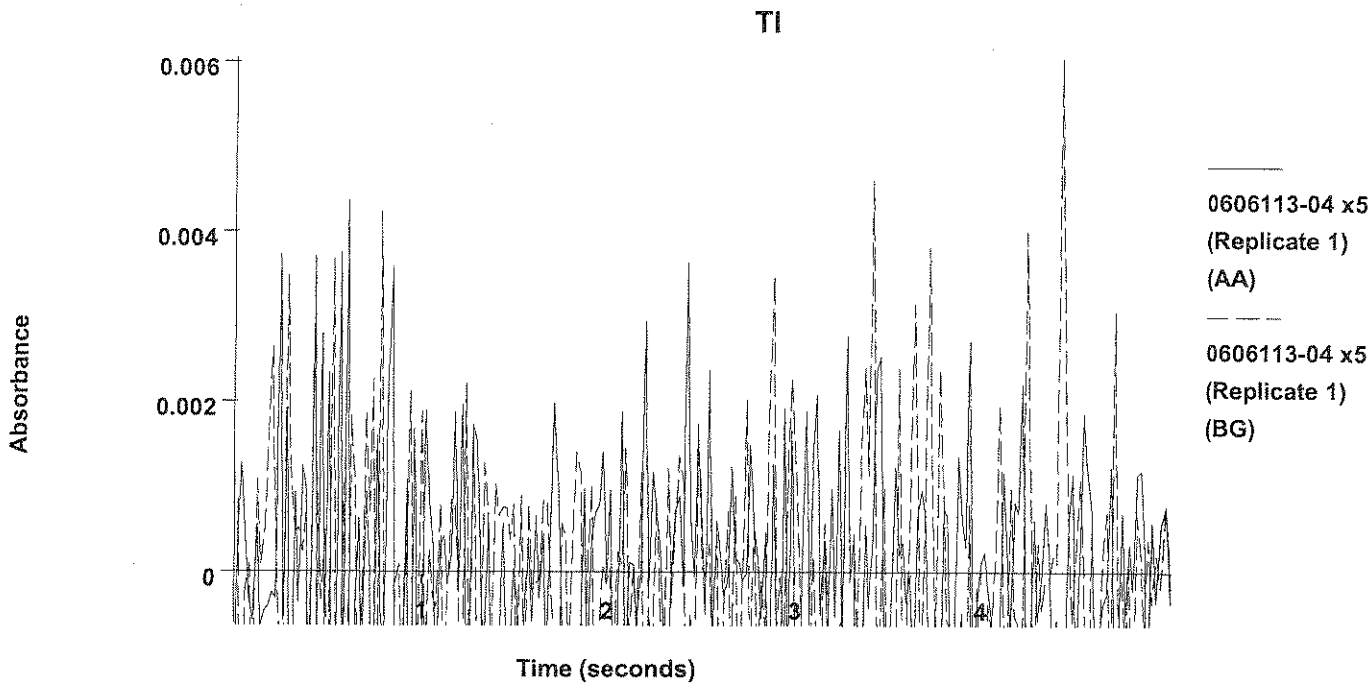
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0004	0.0008	0.0029	0.0010	0.0020	10:54:56	Yes



2	-0.6	-0.6	-0.0008	-0.0004	0.0027	0.0001	0.0035	10:57:47 Yes
Mean:	-0.2	-0.2	-0.0002					
SD :	0.57	0.57	0.0008					
%RSD:	300.8	300.8	371.15					

Element: Tl Seq. No.: 79 AS Loc.: 33 Date: 06/10/2006
Sample ID: 0606113-04 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 33

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0002	0.0002	0.0044	0.0000	0.0060	11:00:38	Yes

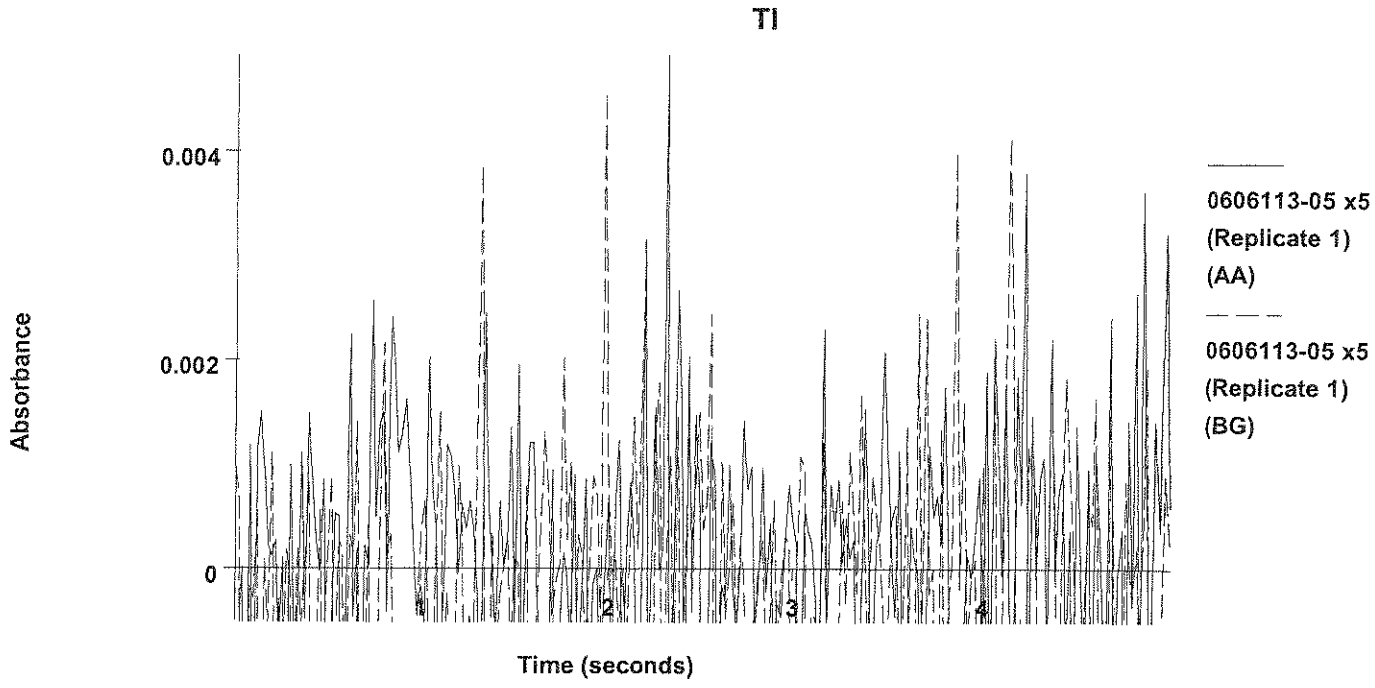


2	-0.8	-0.8	-0.0011	-0.0007	0.0036	0.0004	0.0040	11:03:28 Yes
Mean:	-0.5	-0.5	-0.0007					
SD :	0.44	0.44	0.0006					
%RSD:	89.79	89.79	96.99					

D

Element: Tl Seq. No.: 80 AS Loc.: 34 Date: 06/10/2006
Sample ID: 0606113-05 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 34

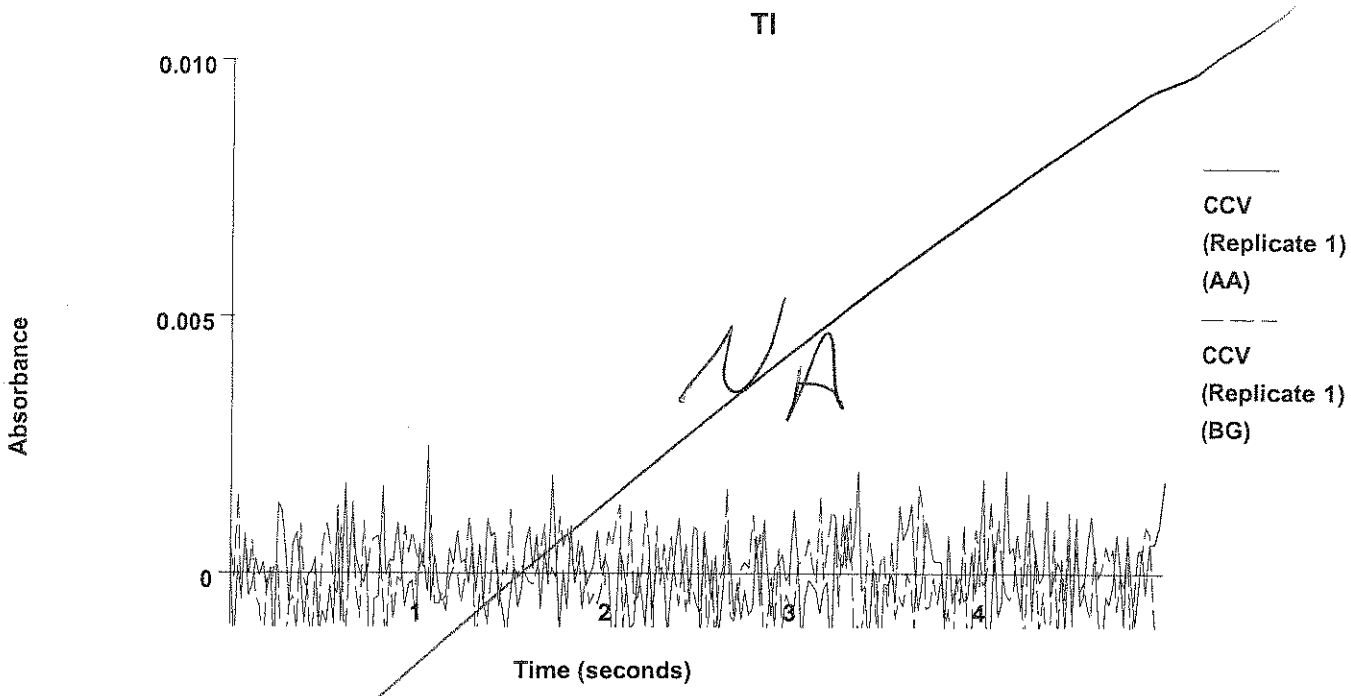
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0003	0.0008	0.0049	-0.0012	0.0046	11:06:18	Yes



2	-0.3	-0.3	-0.0003	0.0001	0.0040	0.0008	0.0048	11:09:09 Yes
Mean:	0.0	0.0	0.0000					
SD :	0.33	0.33	0.0005					
%RSD:	879.7	879.7	21171.84					

Element: Tl Seq. No.: 81 AS Loc.: 124 Date: 06/10/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0004	0.0000	0.0025	-0.0003	0.0017	11:12:01	Yes



2	-0.1	-0.1	0.0000	0.0004	0.0027	0.0001	0.0035	11:14:52 Yes
Mean:	-0.2	-0.2	-0.0002					
SD :	0.19	0.19	0.0003					
%RSD:	102.6	102.6	126.77					

QC failed, value less than lower limit for Tl.

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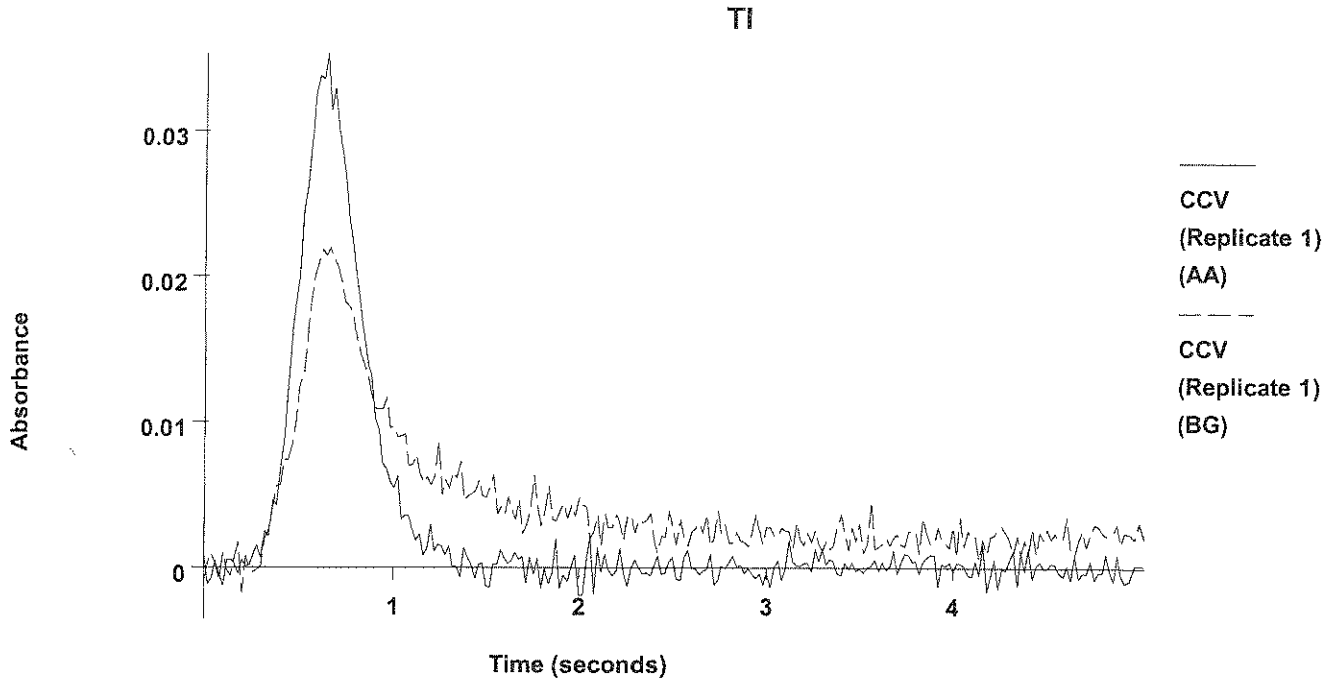
Element: Tl Seq. No.: 82 AS Loc.: 124 Date: 06/10/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	8.9	8.9	0.0131	0.0135	0.0353	0.0215	0.0220	11:17:44	Yes



2	9.5	9.5	0.0140	0.0144	0.0354	0.0212	0.0227	11:20:36 Yes
Mean:	9.2	9.2	0.0135					
SD :	0.43	0.43	0.0006					
%RSD:	4.68	4.68	4.66					

QC value within specified limits.

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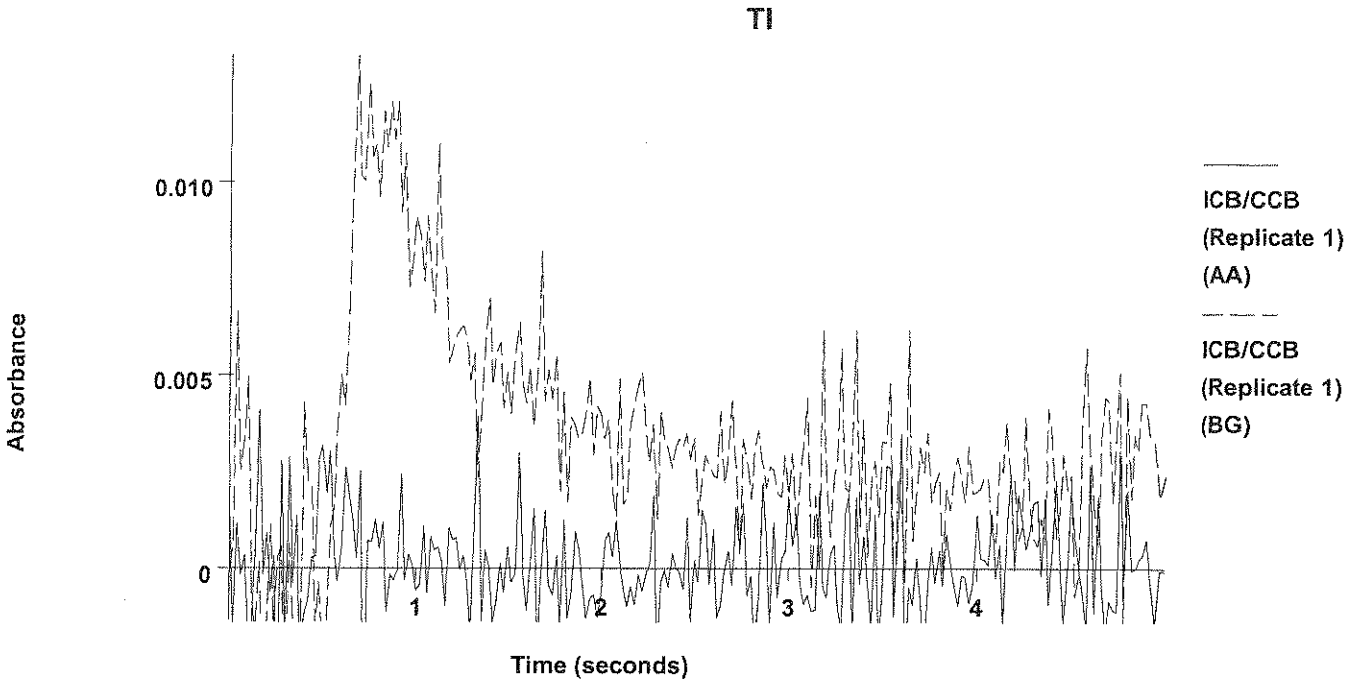
Element: Tl Seq. No.: 83 AS Loc.: 148 Date: 06/10/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0003	0.0008	0.0041	0.0173	0.0133	11:23:27	Yes



2	-0.7	-0.7	-0.0010	-0.0005	0.0035	0.0203	0.0141	11:26:17 Yes
Mean:	-0.2	-0.2	-0.0003					
SD :	0.63	0.63	0.0009					
%RSD:	255.0	255.0	298.46					

QC value within specified limits.

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Element: Tl Seq. No.: 84 AS Loc.: 35 Date: 06/10/2006
Sample ID: 0606113-06 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 35

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-1.2	-1.2	-0.0017	-0.0013	0.0034	0.0023	0.0050	11:29:06	Yes

ANALYSIS SEQUENCE

BPG0167

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0167-CAL1	QC		1		6F12043		
BPG0167-CAL2	QC		2		6F12054		
BPG0167-CAL3	QC		3		6F12055		
BPG0167-CAL4	QC		4		6F12056		
BPG0167-CAL5	QC		5		6F12057		
BPG0167-ICV1	QC		6		6F12056		
BPG0167-SCV1	QC		7		6F12058		
BPG0167-ICB1	QC		8				
BF60914-BLK2	QC		9				
BF60914-BS2	QC		10				
BF60914-BSD2	QC		11				
BPG0167-CCB1	QC		12				
BPG0167-CCV1	QC		13		6F12056		
BF60914-SRM2	QC		14				
BF60914-DUP3	QC		15				
BF60914-MS3	QC		16				
BF60914-PS2	QC		17				
0606113-01	As: ppm Arsenic 7060	F	18				MACTEC Engineering & Consulting, In
0606113-03	As: ppm Arsenic 7060	F	19				MACTEC Engineering & Consulting, In
0606113-16	Tl: ppm Thallium 7841	F	20				MACTEC Engineering & Consulting, In
0606113-16	As: ppm Arsenic 7060	F	21				MACTEC Engineering & Consulting, In
0606113-14	Tl: ppm Thallium 7841	F	22				MACTEC Engineering & Consulting, In
0606113-14	As: ppm Arsenic 7060	F	23				MACTEC Engineering & Consulting, In
0606113-13	Tl: ppm Thallium 7841	F	24				MACTEC Engineering & Consulting, In
0606113-13	As: ppm Arsenic 7060	F	25				MACTEC Engineering & Consulting, In
0606113-12	Tl: ppm Thallium 7841	F	26				MACTEC Engineering & Consulting, In
0606113-12	As: ppm Arsenic 7060	F	27				MACTEC Engineering & Consulting, In
BPG0167-CCB2	QC		28				
BPG0167-CCV2	QC		29		6F12056		
0606113-11	Tl: ppm Thallium 7841	F	30				MACTEC Engineering & Consulting, In
0606113-11	As: ppm Arsenic 7060	F	31				MACTEC Engineering & Consulting, In
0606113-10	Tl: ppm Thallium 7841	F	32				MACTEC Engineering & Consulting, In
0606113-10	As: ppm Arsenic 7060	F	33				MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

BPG0167

Instrument: GFAA2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606113-09	Tl: ppm Thallium 7841	F	34				MACTEC Engineering & Consulting, In
0606113-09	As: ppm Arsenic 7060	F	35				MACTEC Engineering & Consulting, In
0606113-08	Tl: ppm Thallium 7841	F	36				MACTEC Engineering & Consulting, In
0606113-08	As: ppm Arsenic 7060	F	37				MACTEC Engineering & Consulting, In
0606113-07	Tl: ppm Thallium 7841	F	38				MACTEC Engineering & Consulting, In
0606113-07	As: ppm Arsenic 7060	F	39				MACTEC Engineering & Consulting, In
0606113-06	Tl: ppm Thallium 7841	F	40				MACTEC Engineering & Consulting, In
0606113-06	As: ppm Arsenic 7060	F	41				MACTEC Engineering & Consulting, In
0606113-05	As: ppm Arsenic 7060	F	42				MACTEC Engineering & Consulting, In
0606113-04	As: ppm Arsenic 7060	F	43				MACTEC Engineering & Consulting, In
0606078-01	As: ppm Arsenic 7060	F	44				MACTEC Engineering & Consulting, In
BPG0167-SRD1	QC		45				
BPG0167-CCB3	QC		46				
BPG0167-CCV3	QC		47		6F12056		
BPG0167-CCV4	QC		48		6F12056		
BPG0167-CCV5	QC		49		6F12056		
BPG0167-CCV6	QC		50		6F12056		
BPG0167-CCB4	QC		51				
BPG0167-CCB5	QC		52				
BPG0167-CCB6	QC		53				
0606113-04RE1	As: ppm Arsenic 7060	F	54				MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

As: All
Tl: 06-16

ESS LABORATORY
GFAA Data Review Check List

SIF Method: Se, Sb Tl As Pb **Run Date:** 6/12/06

Project Number(s): 060782, 88, 122, 113

Batch Number (s): 061206!4A

SOP NO. 30_2009

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the cal curve consist of four Calibration Standards including a blank and is its correlation within QC limits (≥0.995)?	X		
2. Is the low calibration standard at the reporting limit?	X		
3. If the low standard is above the reporting limit, is a CRI analyzed at the beginning of the run? Does the recovery meet QC limits(80-120%)?			X
4. Is the midpoint calibration standard reanalyzed immediately after the curve and is it within QC limits of 90-110% (± 5% for 200.9)?	X		
5. Is the ICV from a second source and is its recovery within QC limits (90-110%)	X		
6. Is the mid-point calibration standard re-analyzed every 10 samples and at the end of the run and are its recoveries within QC limits (90-110%)?		X	
7. Is the CCB analyzed at beginning, after every 10 samples and at end of the run and are its recoveries within QC limits (<2xMDL)?	X		
8. Are the method blank recoveries within QC limits?	X		
9. Are the LCS and ERA recoveries within QC limits (LCS: 80-120% for 7000, 85-115% for 200.9, ERA see COA)?	X		
10. Are matrix dups run at desired frequency (1 per 10 samples or per analytical batch) and are RPD's within QC limits (<20%)?	X		
11. Are matrix spikes run at desired frequency frequency (1 per 10 samples or per analytical batch) and are recoveries within QC limits (80-120%)?	X		
12. Are all samples with concentrations > the highest calibration standard diluted and reanalyzed?	X		
13. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion (± 10%RPD)?	X		
14. Is the batch post digestion spike within QC limits (85-115%)?		X	
15. Are all sample hold times met?	X		
16. Are all non-conformances included and noted?	X		
17. Is the correct methodology used for sample prep and analysis?	X		
18. Are all calculations checked?	X		
19. Did analyst sign/date appropriate printouts and report sheets?	X		
20. Are all samples located in the correct auto-sampler locations?	X		

Comments on any "No" response:

Se - OK last CCV high Sample ND

Sb - OK, Tl OK

As 060113-04 15X

Pb OK

Analyst: JP Date: 6/13/06 2nd Rvw: SD Date: 6/13/06

Control Number: 30.0022-0601A Page _____

Autosampler Loading List

Sample Information File: 061206YA.SIF
Methods: Se 5 Sb 5 Tl 5 As 5 Pb 2

Location	Elements	Solution
1	As	Sample: 0606078-01 x5
2	Pb	Sample: BF60708-blk1
3	Pb	Sample: BF60708-bs2
4	Pb	Sample: BF60708-bsd2
5	Pb	Sample: 0606082-01
6	Se,Pb	Sample: BF60904-blk1
7	Se,Tl,Pb	Sample: BF60904-bs2
8	Se,Sb,Pb	Sample: ~~BF60604-bsd2~~ BF60904-BSD2
9	Pb	Sample: 0606088-01
10	Se,Pb	Sample: 0606122-01
11	Tl,As	Sample: BF60914-blk1
12	Tl,As	Sample: BF60914-bs1 x20
13	Tl,As	Sample: BF69014-bsd1 x20
14	Tl,As	Sample: BF60914-srm1 x50
15	As	Sample: 0606113-01 x5
16	As	Sample: 0606113-03 x5
17	As	Sample: 0606113-04 x5
18	As	Sample: 0606113-05 x5
19	Tl,As	Sample: 0606113-06 x5
20	Tl,As	Sample: 0606113-07 x5
21	Tl,As	Sample: 0606113-08 x5
22	Tl,As	Sample: 0606113-09 x5
23	Tl,As	Sample: 0606113-10 x5
24	Tl,As	Sample: 0606113-11 x5
25	Tl,As	Sample: BF60914-dup1 x5
26	Tl,As	Sample: BF60914-ms1 x20
27	Tl,As	Sample: BF60914-sd1 x25
28	Tl,As	Sample: 0606113-12 x5
29	Tl,As	Sample: 0606113-13 x5
30	Tl,As	Sample: 0606113-14 x5
31	Tl,As	Sample: 0606113-16 x5
121	Se	Stock Standard: 10.0 µg/L
	Sb,Tl,As,Pb	Stock Standard: 5.0 µg/L
124	Se	Stock Standard: 20.0 µg/L
	Sb,Tl,As,Pb	Stock Standard: 10.0 µg/L
126	Se	Stock Standard: 50.0 µg/L
	Se	STD 3: 50.0000 µg/L
	Se	CCV: 50.0000 µg/L
	Sb,Tl,As,Pb	Stock Standard: 25.0 µg/L
	Sb,Tl,As,Pb	STD 3: 25.0000 µg/L
	Sb,Tl,As,Pb	CCV: 25.0000 µg/L
129	Se	Stock Standard: 100.0 µg/L
	Sb,Tl,As,Pb	Stock Standard: 50.0 µg/L
131	Se	Recovery Stock: 100.0 µg/L
	Sb,Tl,As,Pb	Recovery Stock: 50.0 µg/L
134	Se	ICV: 50.0000 µg/L
	Sb,Tl,As,Pb	ICV: 25.0000 µg/L
136	Se	CRA 4: 4.0000 µg/L
	Sb,Tl,As,Pb	CRA 2: 2.0000 µg/L
146	Pb	Modifier 2
147	Se,Sb,Tl,As	Modifier 1
148	Se,Sb,Tl,As,Pb	Standard 0
	Se,Sb,Tl,As,Pb	ICB/CCB: 0.0000 µg/L
	Se,Sb,Tl,As,Pb	Diluent

Method Name: Tl 5
Method Description: Tl 5
Element: Tl

Date: 06/12/2006
Technique:Furnace
Calibration Type:
Tl, Calc. Intercept : Linear
Wavelength: 276.8 nm
Energy: 100
Slit Width: 0.7
Lamp Current: 6 mA
Sample Info Name: 061206YA.SIF Results Data Set Name: 061206yad

Element: Tl Seq. No.: 36 AS Loc.: 148 Date: 06/12/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0002	0.0002	0.0036	0.0005	0.0043	01:24:08	No
2			0.0006	0.0006	0.0041	-0.0001	0.0046	01:26:58	No
Mean:			0.0004						
SD :			0.0002						
%RSD:			60.10						

Auto-zero performed.

Element: Tl Seq. No.: 37 AS Loc.: 121 Date: 06/12/2006
Sample ID: Standard 5
µL dispensed: 10 from 148, 5 from 147, 15 from 121

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0067	0.0071	0.0108	0.0040	0.0075	01:30:14	No
2			0.0065	0.0069	0.0137	0.0053	0.0092	01:33:05	No
Mean:			0.0066						
SD :			0.0002						
%RSD:			2.43						

[Tl] Standard number 1 applied. [5.0]
Correlation Coefficient: 1.00000 Slope: 0.00133
Intercept : 0.00000

Element: Tl Seq. No.: 38 AS Loc.: 124 Date: 06/12/2006
Sample ID: Standard 10
µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0160	0.0164	0.0208	0.0084	0.0122	01:36:23	No
2			0.0146	0.0150	0.0212	0.0105	0.0120	01:39:15	No
Mean:			0.0153						
SD :			0.0010						
%RSD:			6.35						

[Tl] Standard number 2 applied. [10.0]
Correlation Coefficient: 0.99712 Slope: 0.00153
Intercept : -0.00034

Element: Tl Seq. No.: 39 AS Loc.: 126 Date: 06/12/2006
Sample ID: Standard 25
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Bkgnd	Bkgnd	Time	Peak

#	µg/L	µg/L	Signal	Area	Height	Area	Height		Stored
1			0.0350	0.0354	0.0468	0.0226	0.0275	01:42:34	No
2			0.0362	0.0366	0.0481	0.0222	0.0303	01:45:27	No
Mean:			0.0356						
SD :			0.0008						
%RSD:			2.27						

[Tl] Standard number 3 applied. [25.0]
Correlation Coefficient: 0.99914 Slope: 0.00143
Intercept : 0.00007

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Element: Tl Seq. No.: 40 AS Loc.: 129 Date: 06/12/2006
Sample ID: Standard 50
µL dispensed: 10 from 148, 5 from 147, 15 from 129

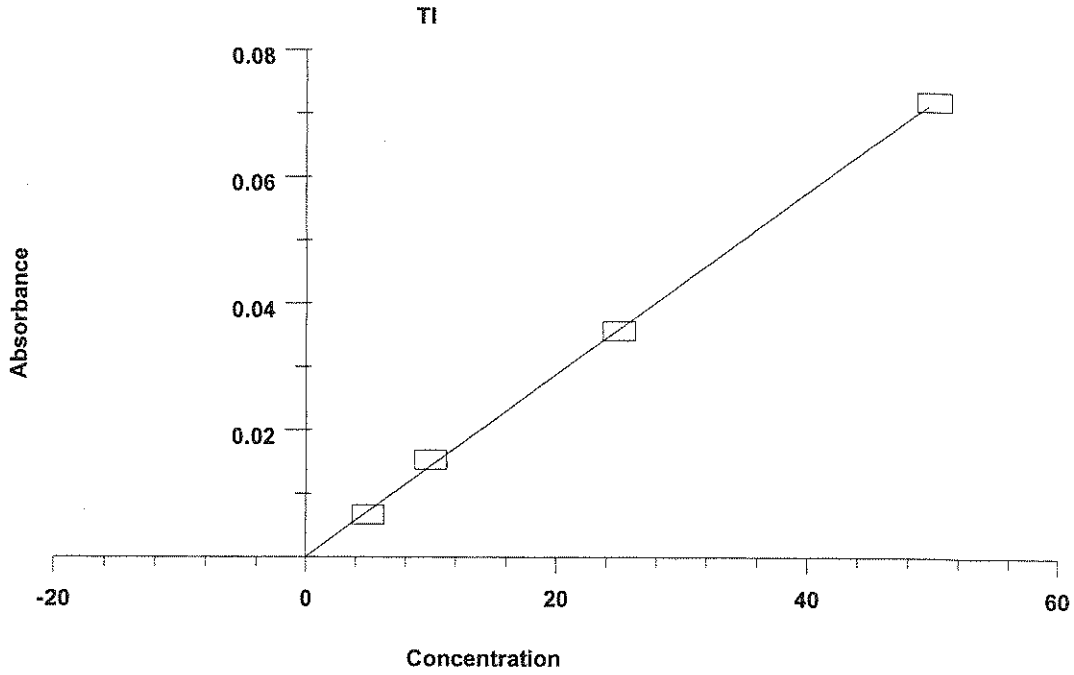
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0723	0.0727	0.0886	0.0447	0.0566	01:48:45	No
2			0.0713	0.0717	0.0902	0.0427	0.0567	01:51:37	No
Mean:			0.0718						
SD :			0.0007						
%RSD:			0.97						

[Tl] Standard number 4 applied. [50.0]
Correlation Coefficient: 0.99982 Slope: 0.00143
Intercept : 0.00004

Calibration data for Tl

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0004	-	----	----	----
Standard 5	0.0066	5.0	4.6	0.00	2.43
Standard 10	0.0153	10.0	10.6	0.00	6.35
Standard 25	0.0356	25.0	24.8	0.00	2.27
Standard 50	0.0718	50.0	50.0	0.00	0.97

Correlation Coefficient: 0.99982 Slope: 0.00143 Intercept: 0.0000



Element: Tl Seq. No.: 41 AS Loc.: 126 Date: 06/12/2006
Sample ID: STD 3
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.2	26.2	0.0377	0.0381	0.0485	0.0217	0.0287	01:54:35	No
2	25.6	25.6	0.0367	0.0371	0.0464	0.0239	0.0288	01:57:28	No
Mean:	25.9	25.9	0.0372						
SD :	0.48	0.48	0.0007						
%RSD:	1.86	1.86	1.86						

QC value within specified limits.

Element: Tl Seq. No.: 42 AS Loc.: 134 Date: 06/12/2006
Sample ID: ICV
µL dispensed: 10 from 148, 5 from 147, 15 from 134

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.3	25.3	0.0363	0.0367	0.0488	0.0217	0.0284	02:00:18	No
2	24.3	24.3	0.0350	0.0353	0.0473	0.0233	0.0303	02:03:09	No
Mean:	24.8	24.8	0.0356						
SD :	0.68	0.68	0.0010						
%RSD:	2.73	2.73	2.73						

QC value within specified limits.

Element: Tl Seq. No.: 43 AS Loc.: 148 Date: 06/12/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0001	0.0003	0.0044	0.0001	0.0037	02:05:59	No
2	0.0	0.0	0.0000	0.0004	0.0033	0.0008	0.0047	02:08:49	No
Mean:	0.0	0.0	0.0000						
SD :	0.04	0.04	0.0001						
%RSD:	78.19	78.19	218.92						

QC value within specified limits.

Element: Tl Seq. No.: 44 AS Loc.: 7 Date: 06/12/2006
Sample ID: BF60904-bs2
µL dispensed: 10 from 148, 5 from 147, 15 from 7

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	21.8	21.8	0.0313	0.0317	0.0410	0.0183	0.0232	02:11:39	No
2	21.2	21.2	0.0305	0.0309	0.0390	0.0172	0.0250	02:14:31	No
Mean:	21.5	21.5	0.0309						
SD :	0.43	0.43	0.0006						
%RSD:	2.00	2.00	2.00						

107%

Element: Tl Seq. No.: 45 AS Loc.: 11 Date: 06/12/2006
Sample ID: BF60914-blk1
µL dispensed: 10 from 148, 5 from 147, 15 from 11

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0007	0.0011	0.0031	-0.0003	0.0041	02:17:22	No
2	0.5	0.5	0.0007	0.0011	0.0053	-0.0006	0.0054	02:20:12	No
Mean:	0.5	0.5	0.0007						
SD :	0.02	0.02	0.0000						
%RSD:	5.20	5.20	4.88						

ND

Element: Tl Seq. No.: 46 AS Loc.: 11 Date: 06/12/2006
Sample ID: BF60914-blk1
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 11

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.6	20.6	0.0296	0.0299	0.0417	0.0187	0.0252	02:23:13	No
2	20.1	20.1	0.0289	0.0293	0.0409	0.0190	0.0252	02:26:12	No
Mean:	20.4	20.4	0.0292						
SD :	0.30	0.30	0.0004						
%RSD:	1.48	1.48	1.48						

Recovery for Tl = 101.8 % within 85 % to 115 %

Element: Tl Seq. No.: 47 AS Loc.: 12 Date: 06/12/2006
Sample ID: BF60914-bs1 x20
µL dispensed: 10 from 148, 5 from 147, 15 from 12

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.3	24.3	0.0349	0.0353	0.0446	0.0210	0.0269	02:29:03	No
2	24.4	24.4	0.0350	0.0354	0.0445	0.0209	0.0262	02:31:53	No
Mean:	24.3	24.3	0.0350						
SD :	0.03	0.03	0.0000						
%RSD:	0.12	0.12	0.12						

97%

Element: Tl Seq. No.: 48 AS Loc.: 13 Date: 06/12/2006
Sample ID: BF69014-bsd1 x20
µL dispensed: 10 from 148, 5 from 147, 15 from 13

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	26.3	26.3	0.0378	0.0382	0.0460	0.0225	0.0282	02:34:43	No
2	25.2	25.2	0.0362	0.0366	0.0448	0.0225	0.0291	02:37:34	No
Mean:	25.8	25.8	0.0370						
SD :	0.81	0.81	0.0012						
%RSD:	3.13	3.13	3.13						

103%

Element: Tl Seq. No.: 49 AS Loc.: 14 Date: 06/12/2006
Sample ID: BF60914-srm1 x50
µL dispensed: 10 from 148, 5 from 147, 15 from 14

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	17.8	17.8	0.0255	0.0259	0.0326	0.0152	0.0204	02:40:25	No
2	17.1	17.1	0.0245	0.0249	0.0320	0.0157	0.0198	02:43:15	No
Mean:	17.4	17.4	0.0250						
SD :	0.50	0.50	0.0007						
%RSD:	2.86	2.86	2.86						

$\frac{17.4(50)/100}{1} / 1000 = 87$

Element: Tl Seq. No.: 50 AS Loc.: 19 Date: 06/12/2006
Sample ID: 0606113-06 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 19

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.3	-0.3	-0.0004	0.0000	0.0039	0.0034	0.0042	02:46:05	No
2	-0.7	-0.7	-0.0010	-0.0006	0.0038	0.0015	0.0048	02:48:56	No
Mean:	-0.5	-0.5	-0.0007						
SD :	0.26	0.26	0.0004						
%RSD:	50.98	50.98	54.24						

ND

Element: Tl Seq. No.: 51 AS Loc.: 20 Date: 06/12/2006
Sample ID: 0606113-07 x5

µL dispensed: 10 from 148, 5 from 147, 15 from 20

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.8	0.8	0.0012	0.0016	0.0048	0.0006	0.0049	02:51:46	No
2	0.4	0.4	0.0006	0.0010	0.0042	0.0020	0.0046	02:54:37	No
Mean:	0.6	0.6	0.0009						
SD :	0.28	0.28	0.0004						
%RSD:	46.32	46.32	44.04						

Element: Tl Seq. No.: 52 AS Loc.: 21 Date: 06/12/2006
Sample ID: 0606113-08 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 21

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.5	0.5	0.0007	0.0011	0.0045	0.0001	0.0046	02:57:28	No
2	0.6	0.6	0.0008	0.0012	0.0043	0.0010	0.0049	03:00:19	No
Mean:	0.5	0.5	0.0008						
SD :	0.04	0.04	0.0001						
%RSD:	8.47	8.47	7.99						

Element: Tl Seq. No.: 53 AS Loc.: 22 Date: 06/12/2006
Sample ID: 0606113-09 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 22

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0003	0.0006	0.0044	-0.0002	0.0039	03:03:09	No
2	-0.3	-0.3	-0.0004	0.0000	0.0034	0.0022	0.0046	03:05:59	No
Mean:	-0.1	-0.1	-0.0001						
SD :	0.33	0.33	0.0005						
%RSD:	374.8	374.8	579.92						

Element: Tl Seq. No.: 54 AS Loc.: 23 Date: 06/12/2006
Sample ID: 0606113-10 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 23

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0004	0.0007	0.0048	0.0007	0.0046	03:08:49	No
2	-0.7	-0.7	-0.0009	-0.0005	0.0038	0.0015	0.0038	03:11:40	No
Mean:	-0.2	-0.2	-0.0003						
SD :	0.62	0.62	0.0009						
%RSD:	280.7	280.7	326.11						

Element: Tl Seq. No.: 55 AS Loc.: 126 Date: 06/12/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.4	25.4	0.0365	0.0369	0.0494	0.0221	0.0322	03:14:33	No
2	25.9	25.9	0.0372	0.0376	0.0519	0.0225	0.0311	03:17:26	No
Mean:	25.7	25.7	0.0369						
SD :	0.37	0.37	0.0005						
%RSD:	1.44	1.44	1.43						

QC value within specified limits.

Element: Tl Seq. No.: 56 AS Loc.: 148 Date: 06/12/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.9	0.9	0.0014	0.0018	0.0042	0.0008	0.0044	03:20:17	No
2	-1.0	-1.0	-0.0014	-0.0010	0.0035	0.0016	0.0045	03:23:07	No
Mean:	0.0	0.0	0.0000						
SD :	1.35	1.35	0.0019						
%RSD:	6106	6106	15597.35						

QC value within specified limits.

Element: Tl Seq. No.: 57 AS Loc.: 24 Date: 06/12/2006
Sample ID: 0606113-11 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 24

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.1	0.1	0.0002	0.0006	0.0046	-0.0001	0.0052	03:25:58	No
2	-0.2	-0.2	-0.0002	0.0002	0.0040	0.0016	0.0047	03:28:49	No
Mean:	0.0	0.0	0.0000						
SD :	0.19	0.19	0.0003						
%RSD:	742.5	742.5	3371.15						

Element: Tl Seq. No.: 58 AS Loc.: 24 Date: 06/12/2006
Sample ID: 0606113-11 x5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 24

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.4	20.4	0.0293	0.0297	0.0556	0.0221	0.0359	03:31:47	No
2	19.9	19.9	0.0286	0.0290	0.0558	0.0221	0.0383	03:34:45	No
Mean:	20.1	20.1	0.0289						
SD :	0.34	0.34	0.0005						
%RSD:	1.69	1.69	1.69						

Recovery for Tl = 100.7 % within 85 % to 115 %

Element: Tl Seq. No.: 59 AS Loc.: 25 Date: 06/12/2006
Sample ID: BF60914-dup1 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 25

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	-0.0002	0.0002	0.0040	0.0020	0.0054	03:37:35	No
2	1.0	1.0	0.0015	0.0019	0.0044	0.0016	0.0054	03:40:25	No
Mean:	0.4	0.4	0.0006						
SD :	0.83	0.83	0.0012						
%RSD:	199.8	199.8	185.99						

Element: Tl Seq. No.: 60 AS Loc.: 26 Date: 06/12/2006
Sample ID: BF60914-ms1 x20
µL dispensed: 10 from 148, 5 from 147, 15 from 26

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.6	23.6	0.0339	0.0343	0.0552	0.0213	0.0349	03:43:14	No
2	23.3	23.3	0.0334	0.0338	0.0555	0.0204	0.0367	03:46:04	No
Mean:	23.4	23.4	0.0336						
SD :	0.24	0.24	0.0003						
%RSD:	1.01	1.01	1.01						

Element: Tl Seq. No.: 61 AS Loc.: 27 Date: 06/12/2006
Sample ID: BF60914-sd1 x25
µL dispensed: 10 from 148, 5 from 147, 15 from 27

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.1	-0.1	-0.0001	0.0002	0.0032	0.0003	0.0048	03:48:53	No
2	-0.1	-0.1	-0.0001	0.0003	0.0041	0.0005	0.0031	03:51:43	No
Mean:	-0.1	-0.1	-0.0001						
SD :	0.04	0.04	0.0001						
%RSD:	40.20	40.20	57.66						

Element: Tl Seq. No.: 62 AS Loc.: 28 Date: 06/12/2006
Sample ID: 0606113-12 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 28

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0005	-0.0001	0.0050	0.0023	0.0051	03:54:32	No
2	-0.2	-0.2	-0.0002	0.0002	0.0029	0.0022	0.0047	03:57:22	No
Mean:	-0.3	-0.3	-0.0004						
SD :	0.13	0.13	0.0002						
%RSD:	45.50	45.50	51.08						

Element: Tl Seq. No.: 63 AS Loc.: 29 Date: 06/12/2006
Sample ID: 0606113-13 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 29

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.8	0.8	0.0012	0.0016	0.0045	0.0012	0.0047	04:00:11	No
2	0.5	0.5	0.0008	0.0012	0.0050	0.0000	0.0037	04:03:00	No
Mean:	0.7	0.7	0.0010						
SD :	0.20	0.20	0.0003						
%RSD:	30.18	30.18	28.86						

Element: Tl Seq. No.: 64 AS Loc.: 30 Date: 06/12/2006
Sample ID: 0606113-14 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 30

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.3	0.3	0.0005	0.0009	0.0044	0.0022	0.0048	04:05:49	No
2	-0.8	-0.8	-0.0012	-0.0008	0.0037	0.0019	0.0046	04:08:39	No
Mean:	-0.3	-0.3	-0.0003						
SD :	0.82	0.82	0.0012						
%RSD:	328.4	328.4	374.30						

Element: Tl Seq. No.: 65 AS Loc.: 31 Date: 06/12/2006
Sample ID: 0606113-16 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 31

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.4	0.4	0.0006	0.0010	0.0037	0.0006	0.0045	04:11:28	No
2	-0.3	-0.3	-0.0004	0.0000	0.0022	0.0019	0.0031	04:14:18	No
Mean:	0.1	0.1	0.0001						
SD :	0.51	0.51	0.0007						
%RSD:	893.1	893.1	580.14						

Element: Tl Seq. No.: 66 AS Loc.: 126 Date: 06/12/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Bkgnd	Bkgnd	Time	Peak

#	µg/L	µg/L	Signal	Area	Height	Area	Height		Stored
1	25.5	25.5	0.0366	0.0370	0.0492	0.0230	0.0318	04:17:11	No
2	25.5	25.5	0.0367	0.0371	0.0498	0.0236	0.0302	04:20:05	No
Mean:	25.5	25.5	0.0366						
SD :	0.05	0.05	0.0001						
%RSD:	0.20	0.20	0.20						

QC value within specified limits.

==========

Element: Tl Seq. No.: 67 AS Loc.: 148 Date: 06/12/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	0.2	0.2	0.0003	0.0007	0.0048	0.0022	0.0044	04:22:55	No
2	-0.6	-0.6	-0.0008	-0.0004	0.0044	0.0012	0.0042	04:25:45	No
Mean:	-0.2	-0.2	-0.0003						
SD :	0.52	0.52	0.0007						
%RSD:	252.7	252.7	297.27						

QC value within specified limits.

==========

Method Name: As 5
Method Description: As
Element: As

Date: 06/12/2006
Technique:Furnace
Calibration Type:
As, Calc. Intercept : Linear
Wavelength: 193.7 nm
Energy: 100
Slit Width: 0.7
Lamp Current: 350mA
Sample Info Name: 061206YA.SIF Results Data Set Name: 061206yad

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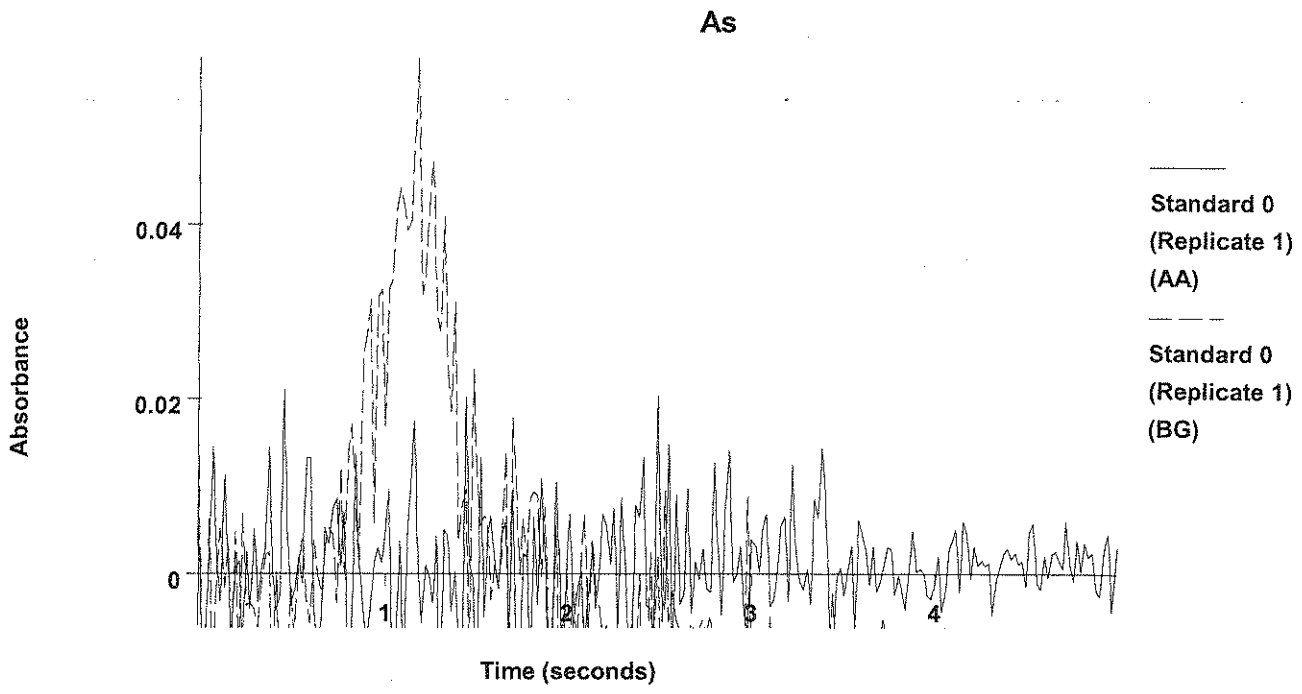
Element: As Seq. No.: 68 AS Loc.: 148 Date: 06/12/2006
Sample ID: Standard 0
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0047	0.0047	0.0211	-0.0118	0.0590	04:33:47	Yes



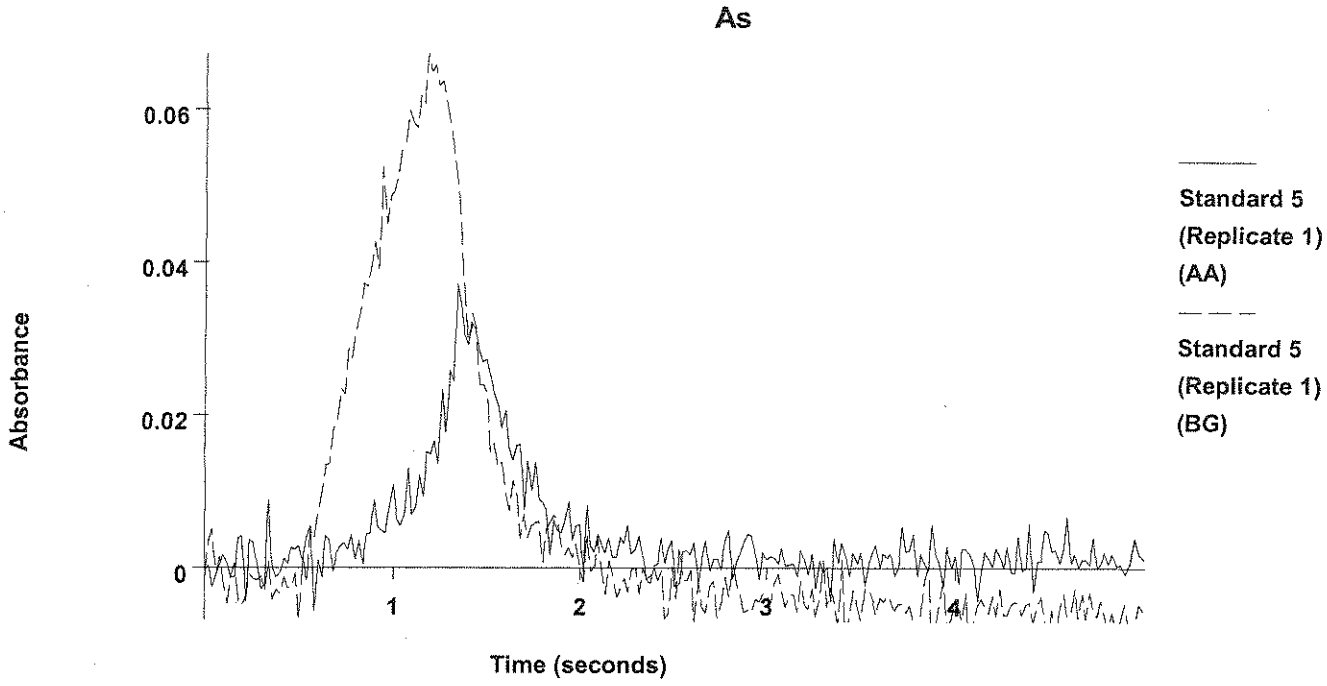
2			0.0014	0.0014	0.0112	0.0174	0.0637	04:36:36	Yes
Mean:			0.0031						
SD :			0.0023						
%RSD:			76.08						

Auto-zero performed.

==========

Element: As Seq. No.: 69 AS Loc.: 121 Date: 06/12/2006
Sample ID: Standard 5
µL dispensed: 10 from 148, 5 from 147, 15 from 121

Repl #	SampleConc	StndConc	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0188	0.0218	0.0370	0.0281	0.0673	04:39:51	Yes



2		0.0170	0.0201	0.0311	0.0335	0.0681	04:42:43 Yes
Mean:		0.0179					
SD :		0.0013					
%RSD:		7.01					

[As] Standard number 1 applied. [5.0]
Correlation Coefficient: 1.00000 Slope: 0.00358
Intercept : 0.00000

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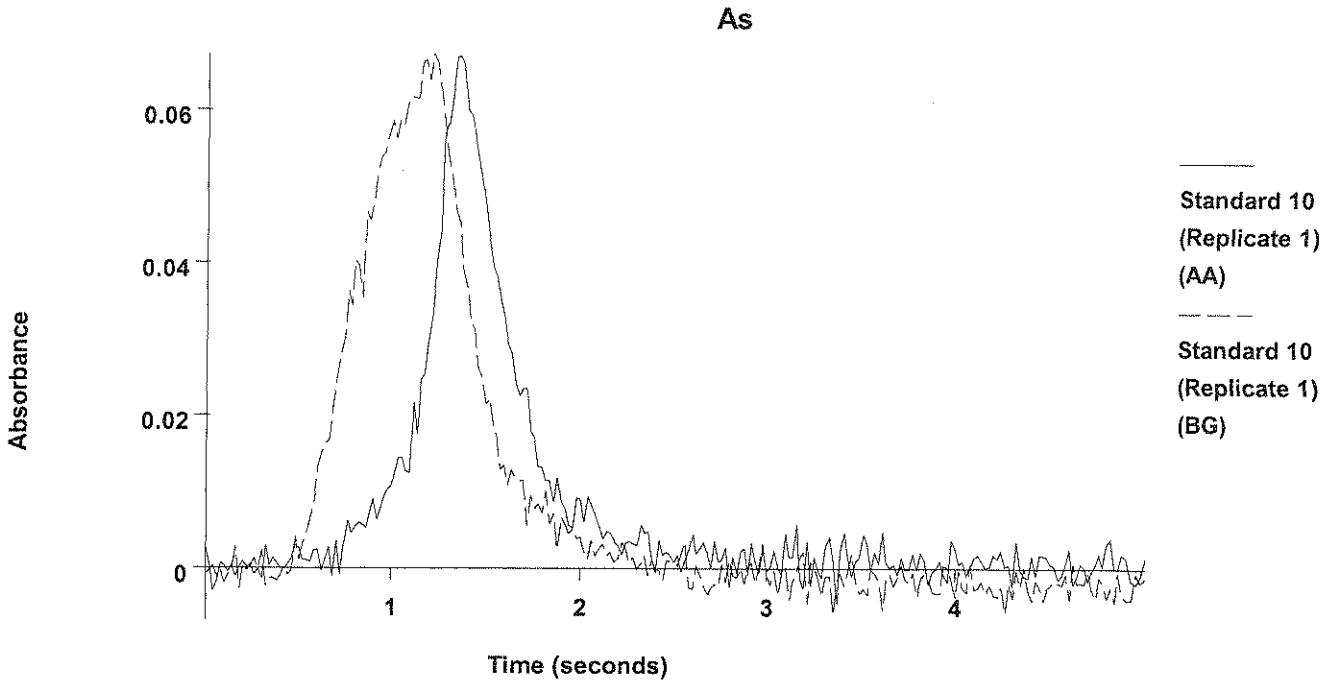
Element: As Seq. No.: 70 AS Loc.: 124 Date: 06/12/2006
Sample ID: Standard 10
µL dispensed: 10 from 148, 5 from 147, 15 from 124

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0334	0.0365	0.0670	0.0426	0.0673	04:46:01	Yes



2		0.0332	0.0363	0.0662	0.0432	0.0672	04:48:53 Yes
Mean:		0.0333					
SD :		0.0002					
%RSD:		0.50					

[As] Standard number 2 applied. [10.0]
Correlation Coefficient: 0.99911 Slope: 0.00333
Intercept : 0.00041

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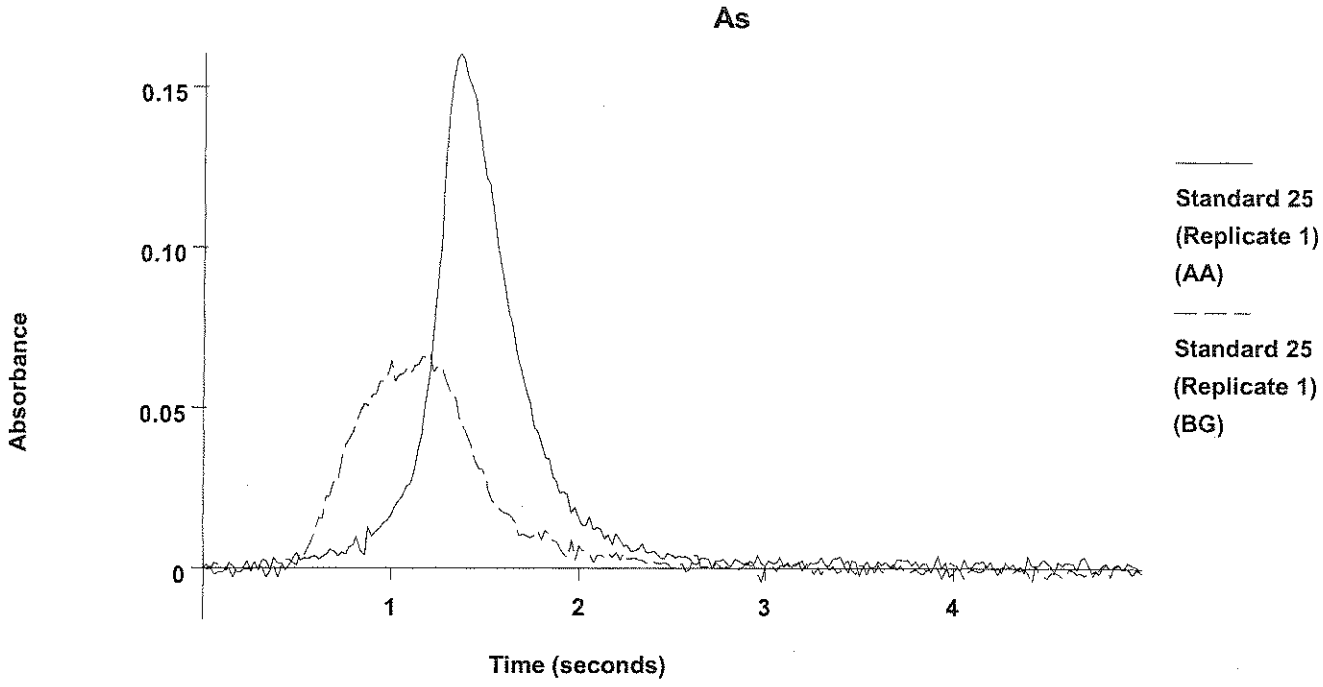
Element: As Seq. No.: 71 AS Loc.: 126 Date: 06/12/2006
Sample ID: Standard 25
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.0809	0.0840	0.1602	0.0506	0.0669	04:52:12	Yes



2	0.0806	0.0837	0.1605	0.0620	0.0714	04:55:07	Yes
Mean:	0.0807						
SD :	0.0002						
%RSD:	0.29						

[As] Standard number 3 applied. [25.0]
Correlation Coefficient: 0.99973 Slope: 0.00320
Intercept : 0.00094

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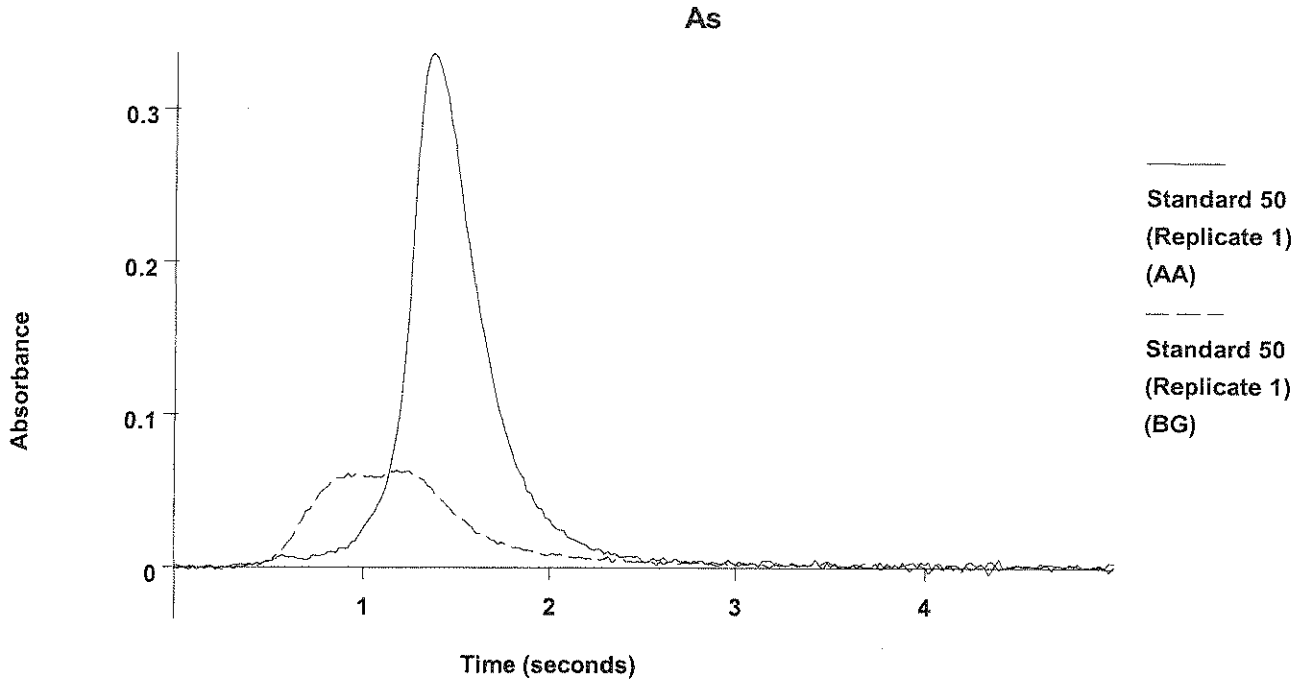
Element: As Seq. No.: 72 AS Loc.: 129 Date: 06/12/2006
Sample ID: Standard 50
µL dispensed: 10 from 148, 5 from 147, 15 from 129

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1			0.1634	0.1665	0.3364	0.0633	0.0634	04:58:25	Yes



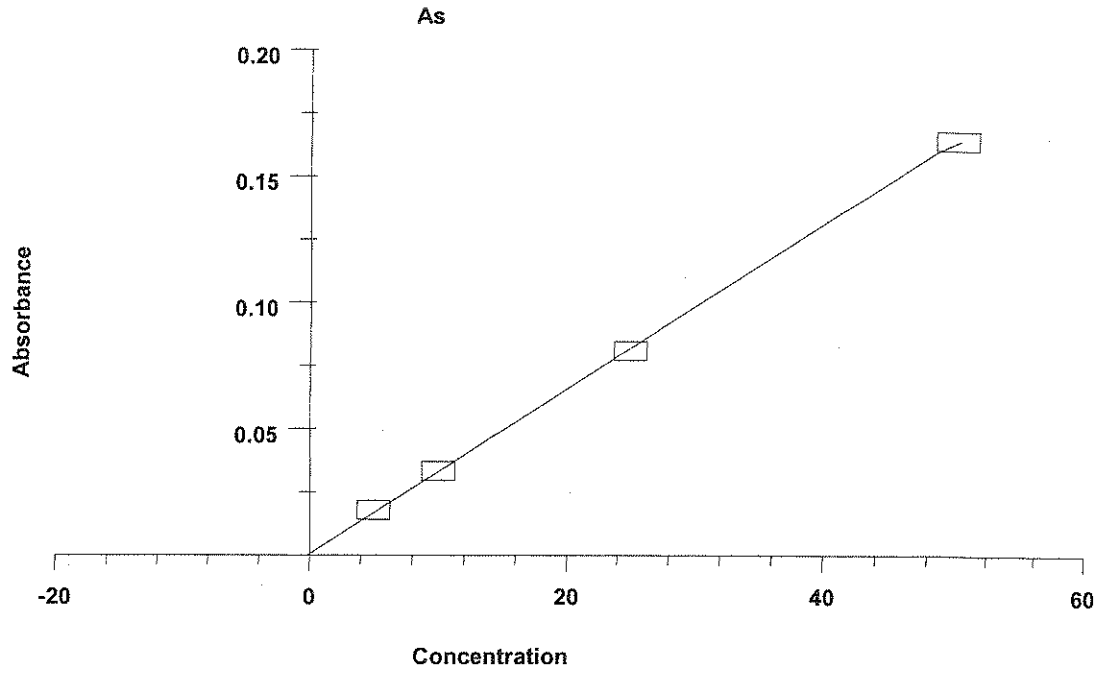
2	0.1645	0.1676	0.3249	0.0627	0.0639	05:01:18 Yes
Mean:	0.1639					
SD :	0.0008					
%RSD:	0.48					

[As] Standard number 4 applied. [50.0]
Correlation Coefficient: 0.99991 Slope: 0.00326
Intercept : 0.00052

Calibration data for As

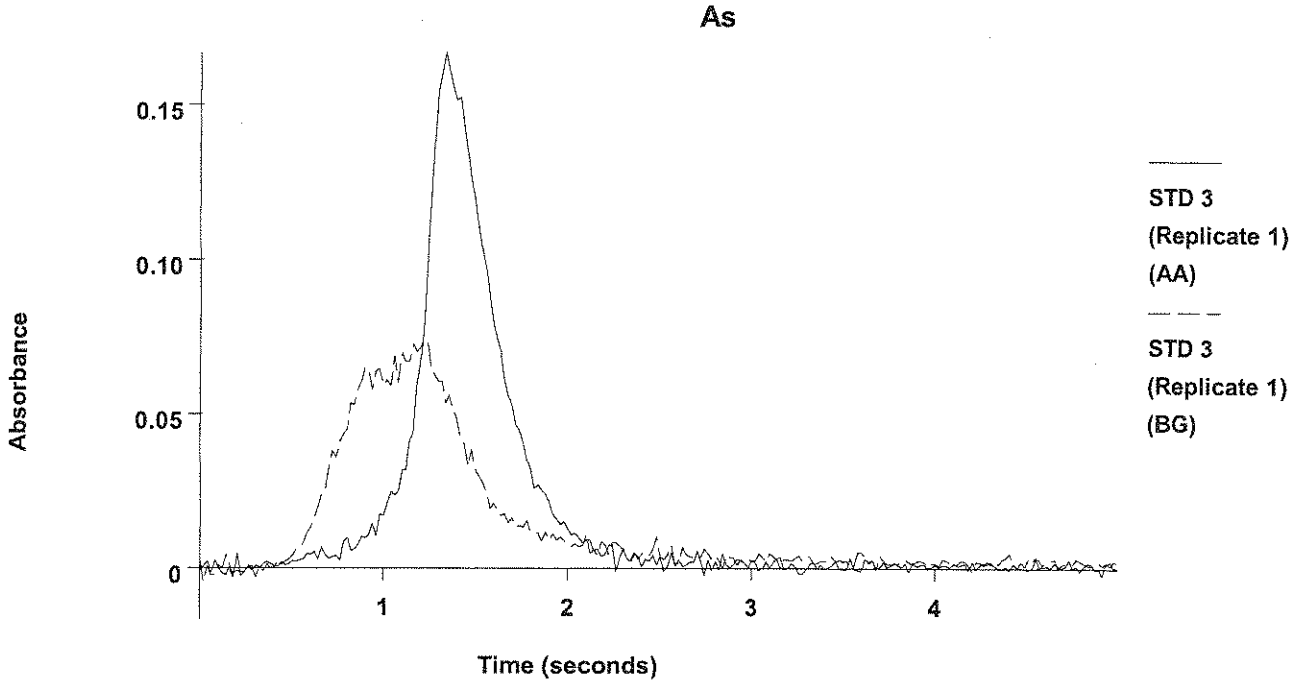
Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Standard 0	0.0031	-	----	----	----
Standard 5	0.0179	5.0	5.3	0.00	7.01
Standard 10	0.0333	10.0	10.1	0.00	0.50
Standard 25	0.0807	25.0	24.6	0.00	0.29
Standard 50	0.1639	50.0	50.1	0.00	0.48

Correlation Coefficient: 0.99991 Slope: 0.00326 Intercept: 0.0005



Element: As Seq. No.: 73 AS Loc.: 126 Date: 06/12/2006
Sample ID: STD 3
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.8	23.8	0.0782	0.0813	0.1668	0.0654	0.0740	05:04:16	Yes



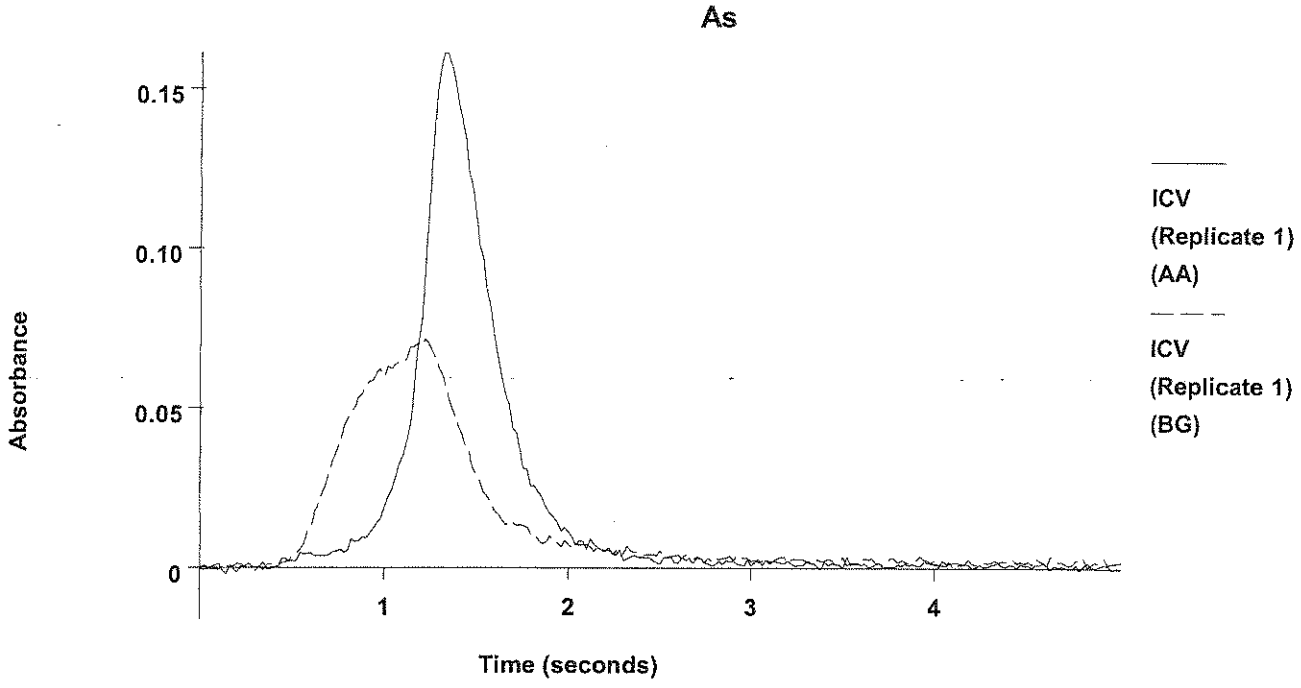
2	24.3	24.3	0.0796	0.0826	0.1642	0.0642	0.0725	05:07:10	Yes

Mean:	24.0	24.0	0.0789
SD :	0.30	0.30	0.0010
%RSD:	1.24	1.24	1.23

QC value within specified limits.

Element: As Seq. No.: 74 AS Loc.: 134 Date: 06/12/2006
Sample ID: ICV
µL dispensed: 10 from 148, 5 from 147, 15 from 134

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.4	23.4	0.0767	0.0798	0.1612	0.0625	0.0714	05:10:01	Yes

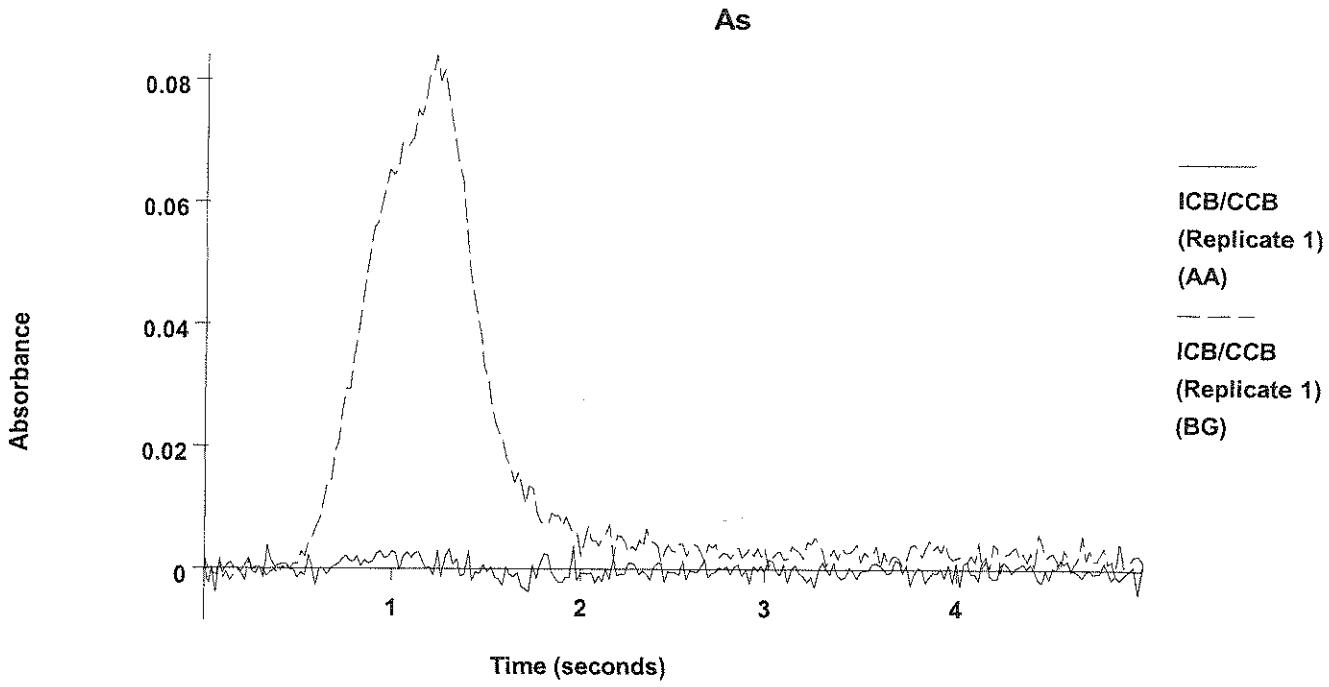


2	24.3	24.3	0.0796	0.0827	0.1641	0.0651	0.0708	05:12:51	Yes
Mean:	23.8	23.8	0.0782						
SD :	0.61	0.61	0.0020						
%RSD:	2.58	2.58	2.56						

QC value within specified limits.

Element: As Seq. No.: 75 AS Loc.: 148 Date: 06/12/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-1.2	-1.2	-0.0033	-0.0003	0.0038	0.0623	0.0841	05:15:41	Yes



2	-0.5	-0.5	-0.0011	0.0020	0.0042	0.0613	0.0811	05:18:32	Yes
Mean:	-0.8	-0.8	-0.0022						
SD :	0.49	0.49	0.0016						
%RSD:	59.3	59.3	73.20						

QC value within specified limits.

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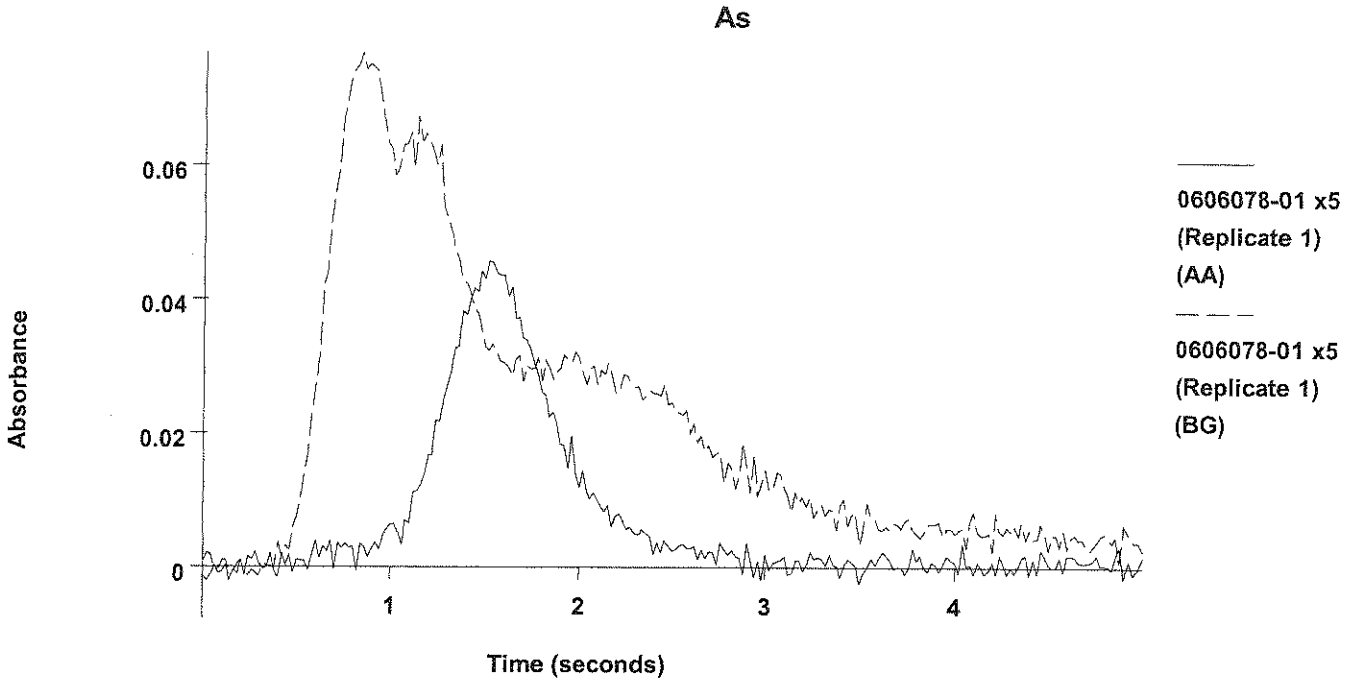
Element: As Seq. No.: 76 AS Loc.: 1 Date: 06/12/2006
Sample ID: 0606078-01 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 1

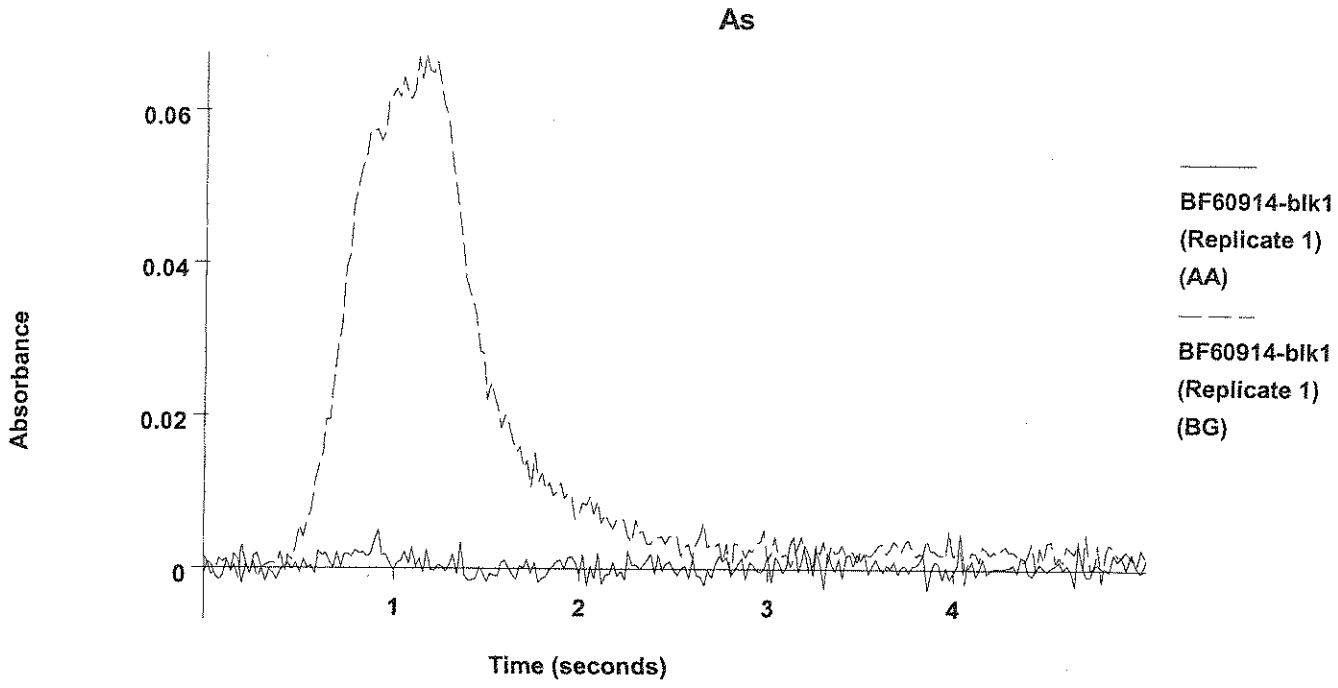
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	9.2	9.2	0.0304	0.0335	0.0457	0.1043	0.0767	05:21:21	Yes



2	9.0	9.0	0.0297	0.0328	0.0479	0.1010	0.0743	05:24:11 Yes
Mean:	9.1	9.1	0.0301					
SD :	0.16	0.16	0.0005					
%RSD:	1.73	1.73	1.70					

Element: As Seq. No.: 77 AS Loc.: 11 Date: 06/12/2006
Sample ID: BF60914-blk1
µL dispensed: 10 from 148, 5 from 147, 15 from 11

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.5	-0.5	-0.0010	0.0021	0.0051	0.0608	0.0674	05:27:02	Yes

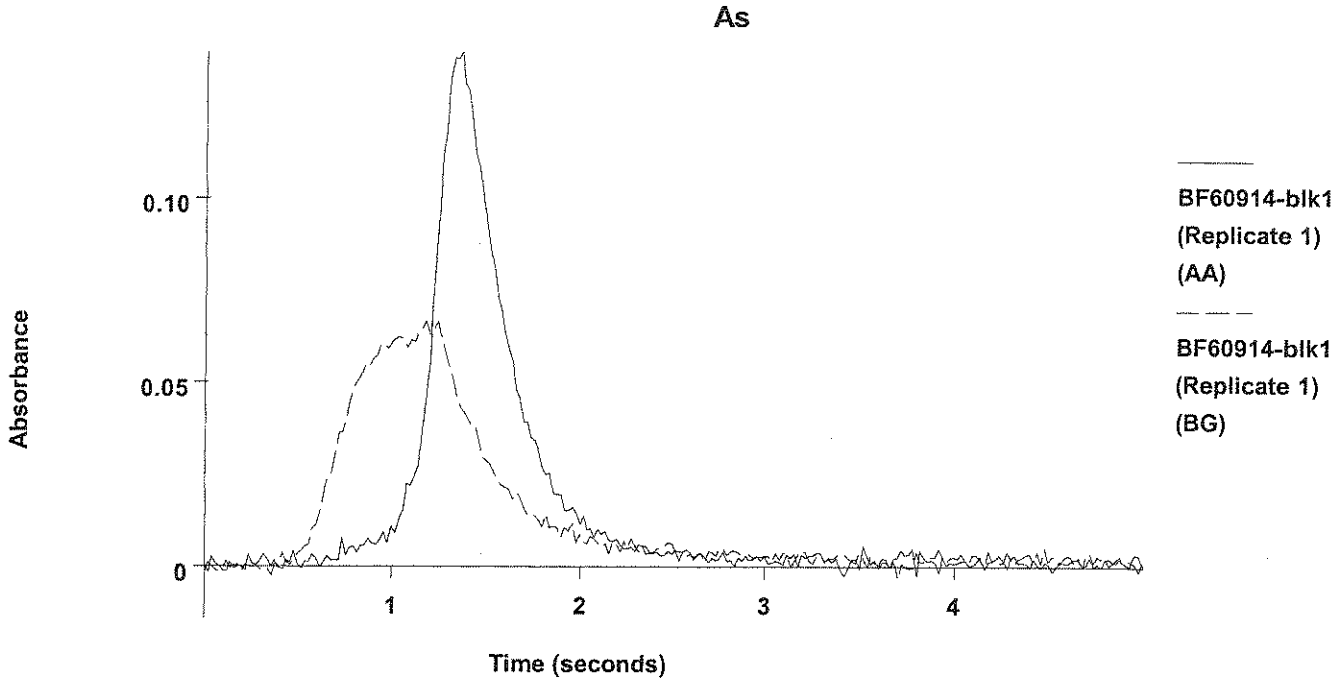


2	-0.5	-0.5	-0.0011	0.0020	0.0053	0.0597	0.0672	05:29:54 Yes
Mean:	-0.5	-0.5	-0.0010					
SD :	0.03	0.03	0.0001					
%RSD:	6.70	6.70	10.00					

MD

Element: As Seq. No.: 78 AS Loc.: 11 Date: 06/12/2006
Sample ID: BF60914-blk1
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 11

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	20.2	20.2	0.0664	0.0694	0.1396	0.0612	0.0666	05:32:52	Yes



2	20.1	20.1	0.0659	0.0690	0.1396	0.0673	0.0722 05:35:50	Yes
Mean:	20.1	20.1	0.0661					
SD :	0.11	0.11	0.0003					
%RSD:	0.53	0.53	0.52					

Recovery for As = 100.7 % within 85 % to 115 %

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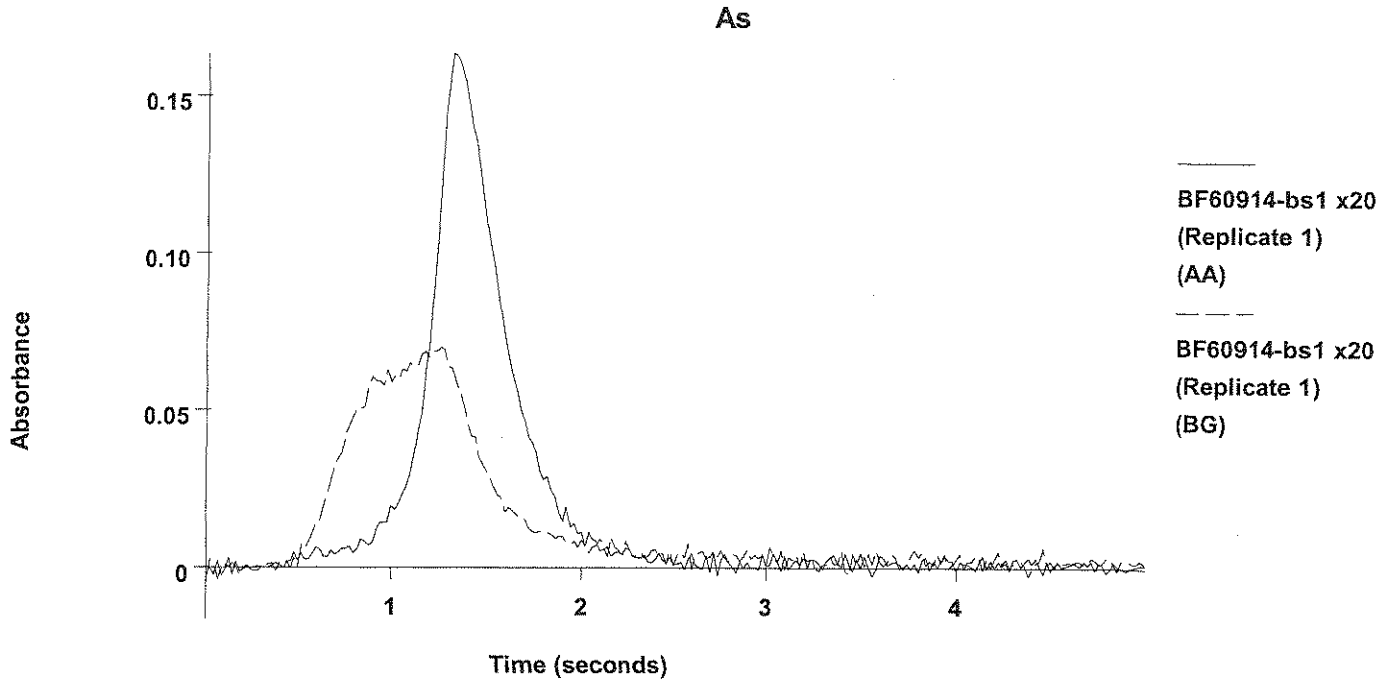
Element: As Seq. No.: 79 AS Loc.: 12 Date: 06/12/2006

Sample ID: BF60914-bs1 x20

µL dispensed: 10 from 148, 5 from 147, 15 from 12

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	23.1	23.1	0.0759	0.0790	0.1636	0.0634	0.0700	05:38:41	Yes

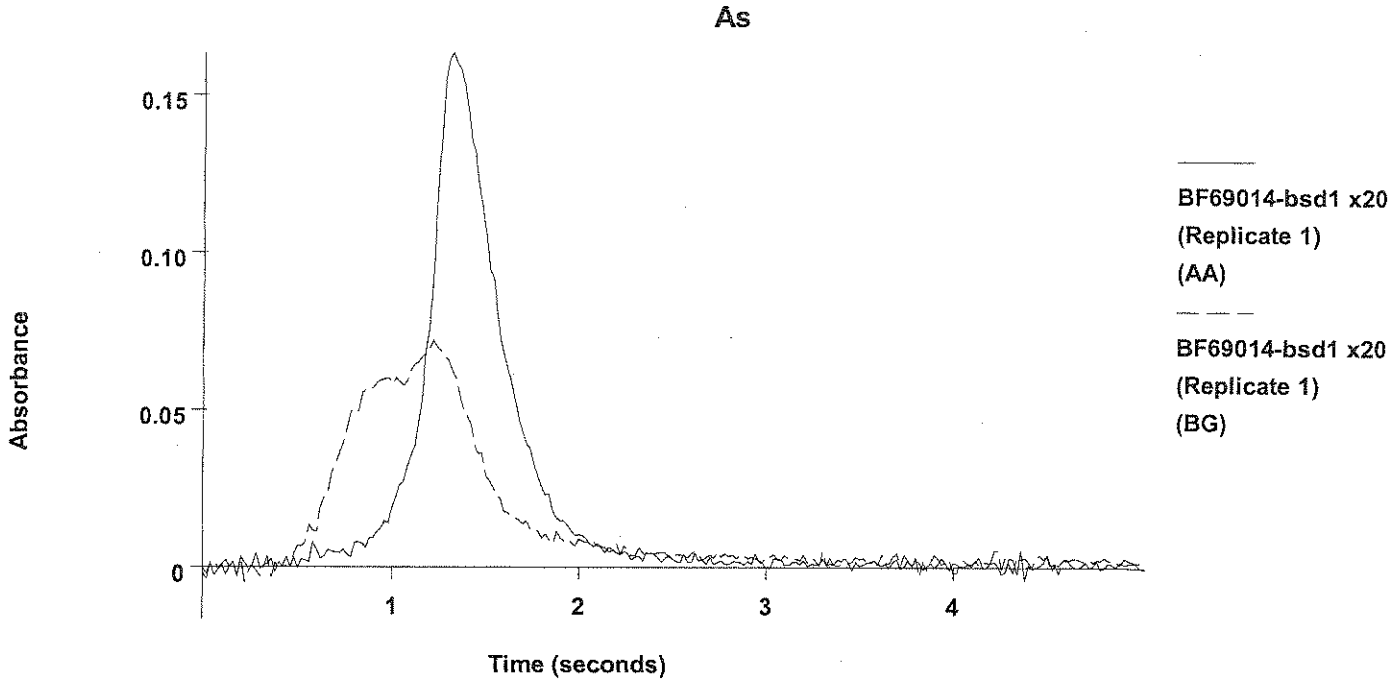


2	22.4	22.4	0.0735	0.0766	0.1583	0.0648	0.0700	05:41:32 Yes
Mean:	22.8	22.8	0.0747					
SD :	0.52	0.52	0.0017					
%RSD:	2.30	2.30	2.28					

913

Element: As Seq. No.: 80 AS Loc.: 13 Date: 06/12/2006
Sample ID: BF69014-bsd1 x20
µL dispensed: 10 from 148, 5 from 147, 15 from 13

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	22.9	22.9	0.0753	0.0784	0.1634	0.0633	0.0720	05:44:23	Yes

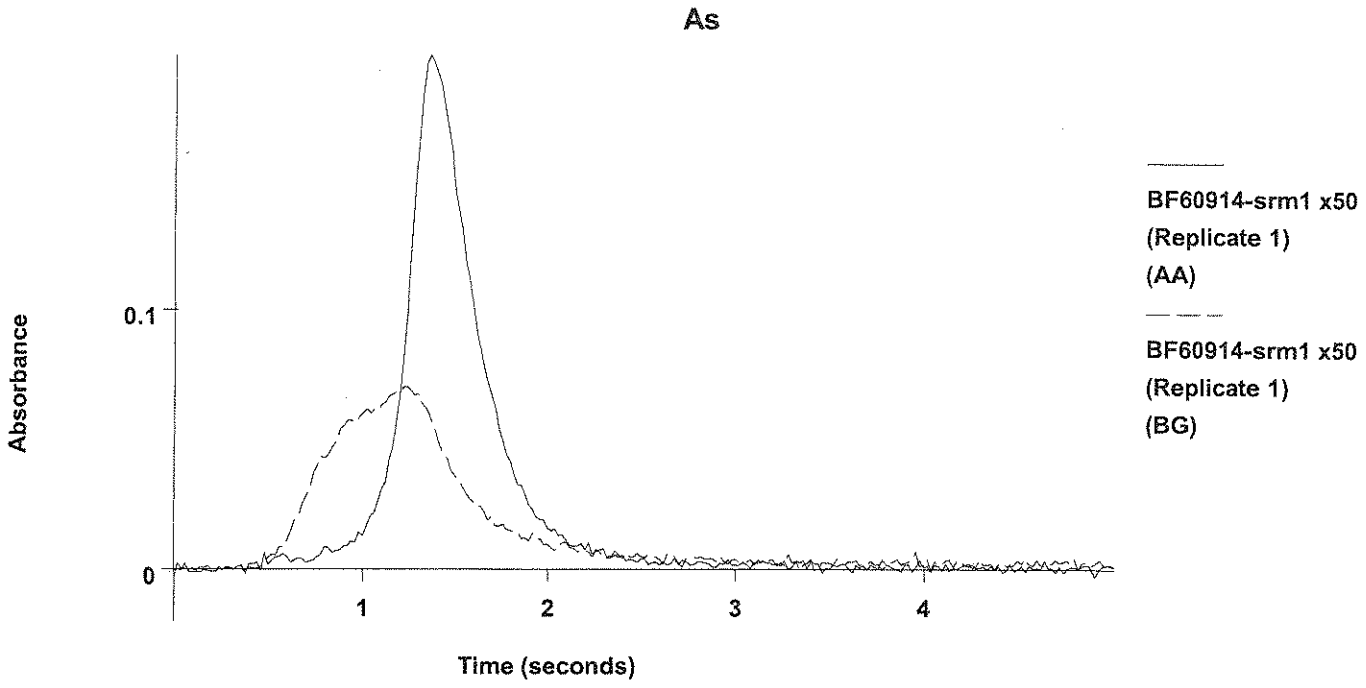


2	22.5	22.5	0.0737	0.0768	0.1625	0.0652	0.0711	05:47:14 Yes
Mean:	22.7	22.7	0.0745					
SD :	0.35	0.35	0.0011					
%RSD:	1.55	1.55	1.54					

915

Element: As Seq. No.: 81 AS Loc.: 14 Date: 06/12/2006
Sample ID: BF60914-srm1 x50
µL dispensed: 10 from 148, 5 from 147, 15 from 14

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	28.4	28.4	0.0929	0.0960	0.1979	0.0668	0.0702	05:50:04	Yes

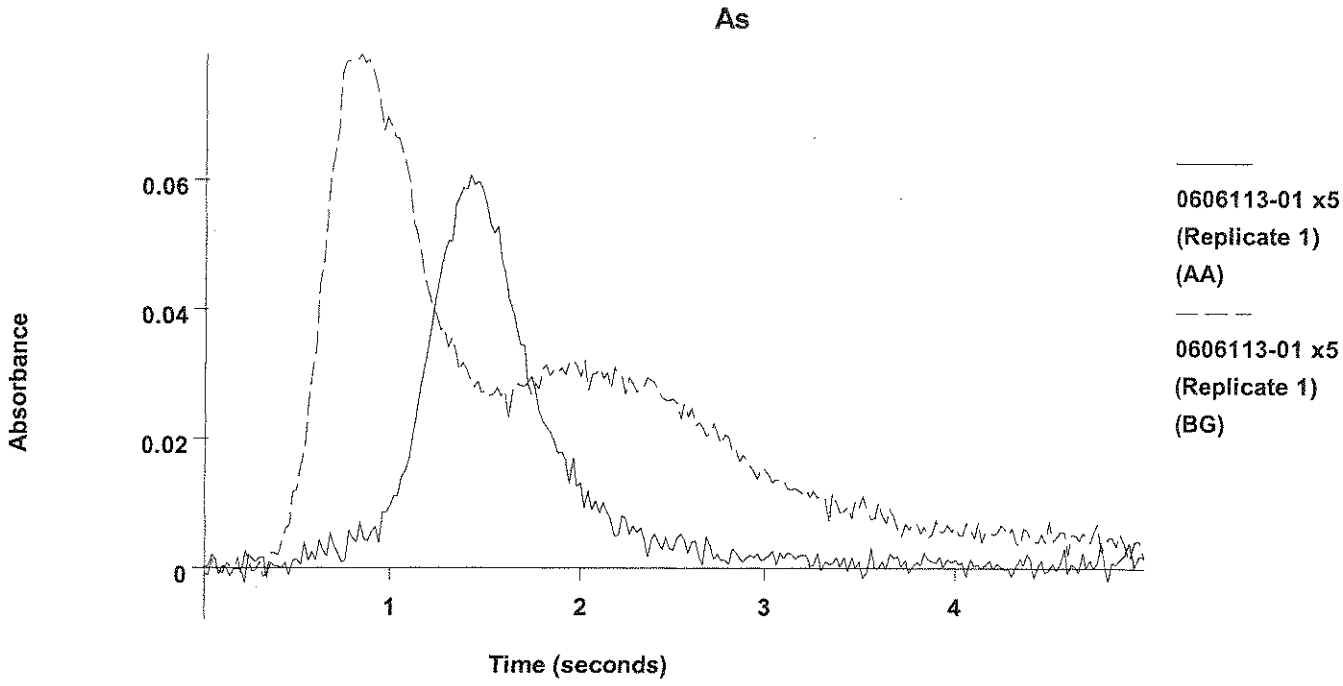


2	28.5	28.5	0.0935	0.0966	0.1988	0.0672	0.0719	05:52:56	Yes
Mean:	28.4	28.4	0.0932						
SD :	0.13	0.13	0.0004						
%RSD:	0.46	0.46	0.46						

$\frac{28.4(50)(100)}{1000} = 142$

Element: As Seq. No.: 82 AS Loc.: 15 Date: 06/12/2006
Sample ID: 0606113-01 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 15

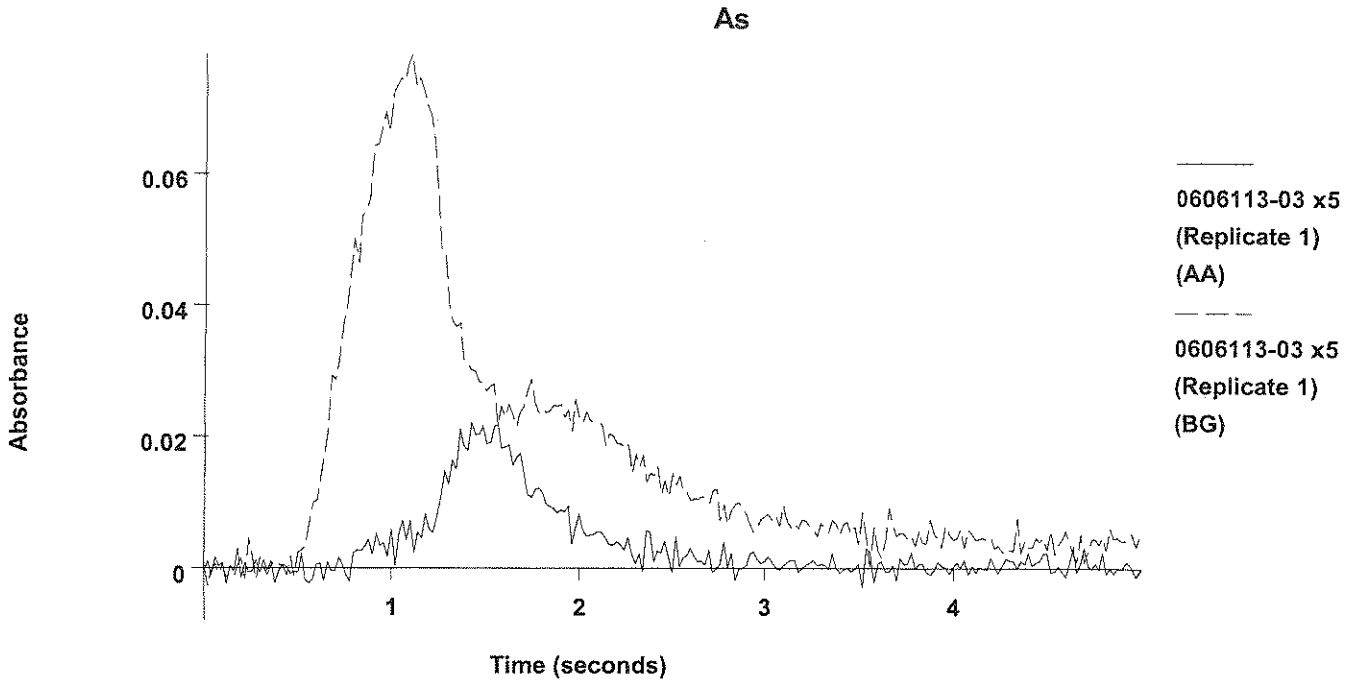
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	12.2	12.2	0.0402	0.0433	0.0607	0.1048	0.0794	05:55:47	Yes



2	12.2	12.2	0.0404	0.0435	0.0630	0.1012	0.0812	05:58:38 Yes
Mean:	12.2	12.2	0.0403					
SD :	0.04	0.04	0.0001					
%RSD:	0.29	0.29	0.29					

Element: As Seq. No.: 83 AS Loc.: 16 Date: 06/12/2006
Sample ID: 0606113-03 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 16

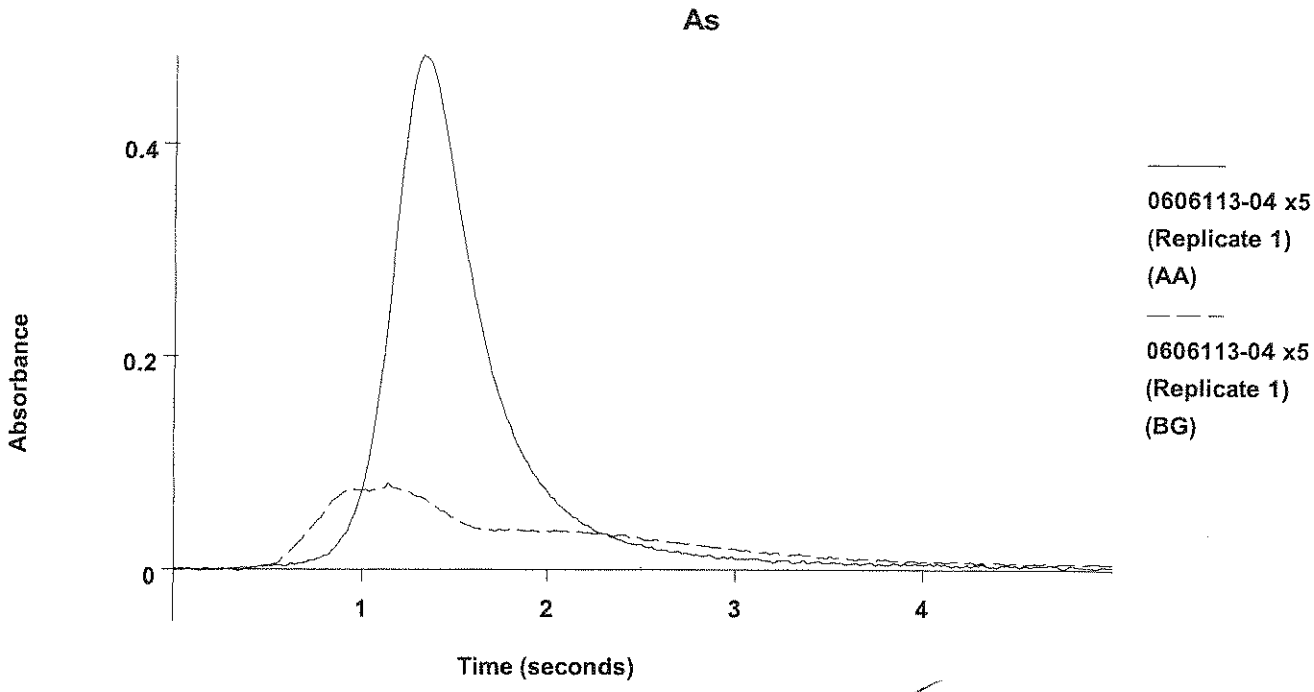
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.8	3.8	0.0130	0.0161	0.0221	0.0810	0.0781	06:01:28	Yes



2	3.9	3.9	0.0134	0.0164	0.0240	0.0803	0.0760	06:04:20	Yes
Mean:	3.9	3.9	0.0132						
SD :	0.08	0.08	0.0002						
%RSD:	1.95	1.95	1.87						

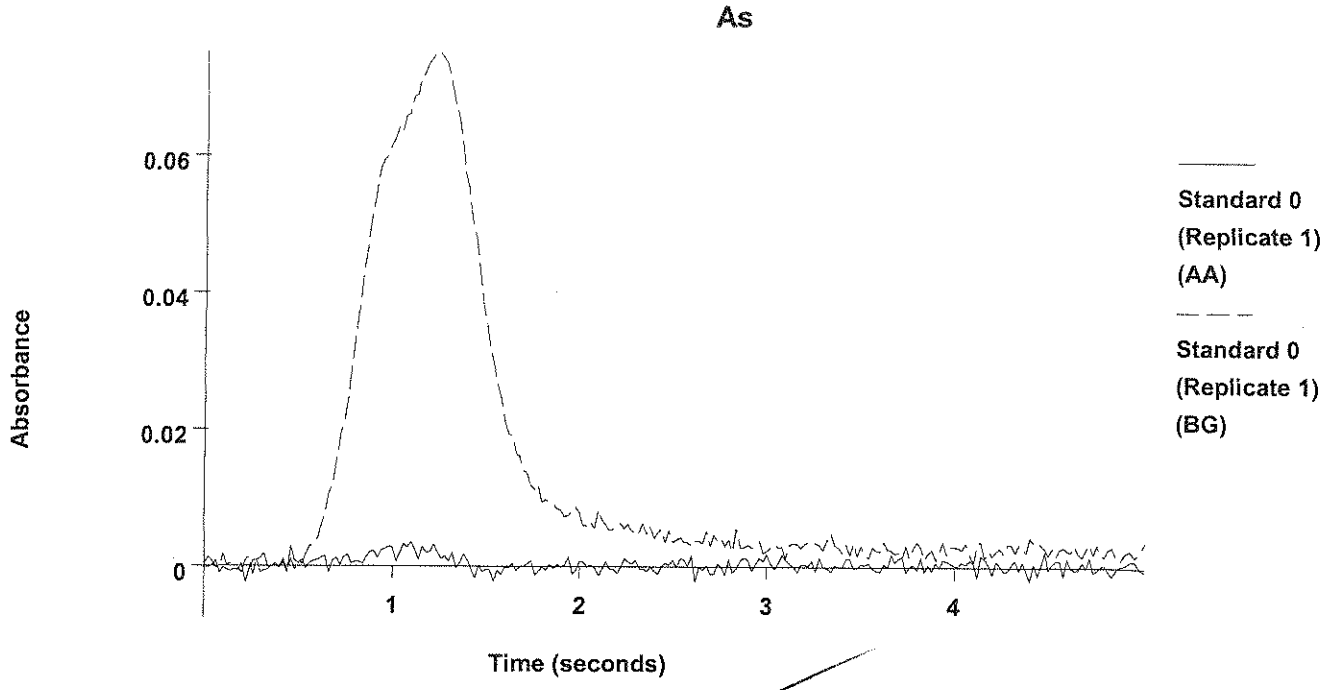
Element: As Seq. No.: 84 AS Loc.: 17 Date: 06/12/2006
Sample ID: 0606113-04 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 17

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	92.4	92.4	0.3015	0.3046	0.4827	0.1218	0.0809	06:07:11	Yes




```
Sample absorbance is greater than that of the highest standard.
 2          92.9       92.9     0.3031    0.3062    0.4538    0.1178    0.0771  06:10:02 Yes
Sample absorbance is greater than that of the highest standard.
Mean:       92.6       92.6     0.3023
SD  :       0.35       0.35     0.0012
%RSD:       0.38       0.38     0.38
Sample absorbance is greater than that of the highest standard.
Result for As is greater than 100 percent of calibration range.

================================================================================
Element: As     Seq. No.: 85        AS Loc.: 148    Date: 06/12/2006
Sample ID: Standard 0
µL dispensed:  10 from 148, 5 from 147, 15 from 148
--------------------------------------------------------------------------------
Repl    SampleConc  StndConc    BlnkCorr  Peak      Peak      Bkgnd     Bkgnd     Time     Peak
 #      µg/L        µg/L        Signal    Area      Height    Area      Height              Stored
 1                              0.0018    0.0018    0.0036    0.0631    0.0751  06:12:52 Yes
```



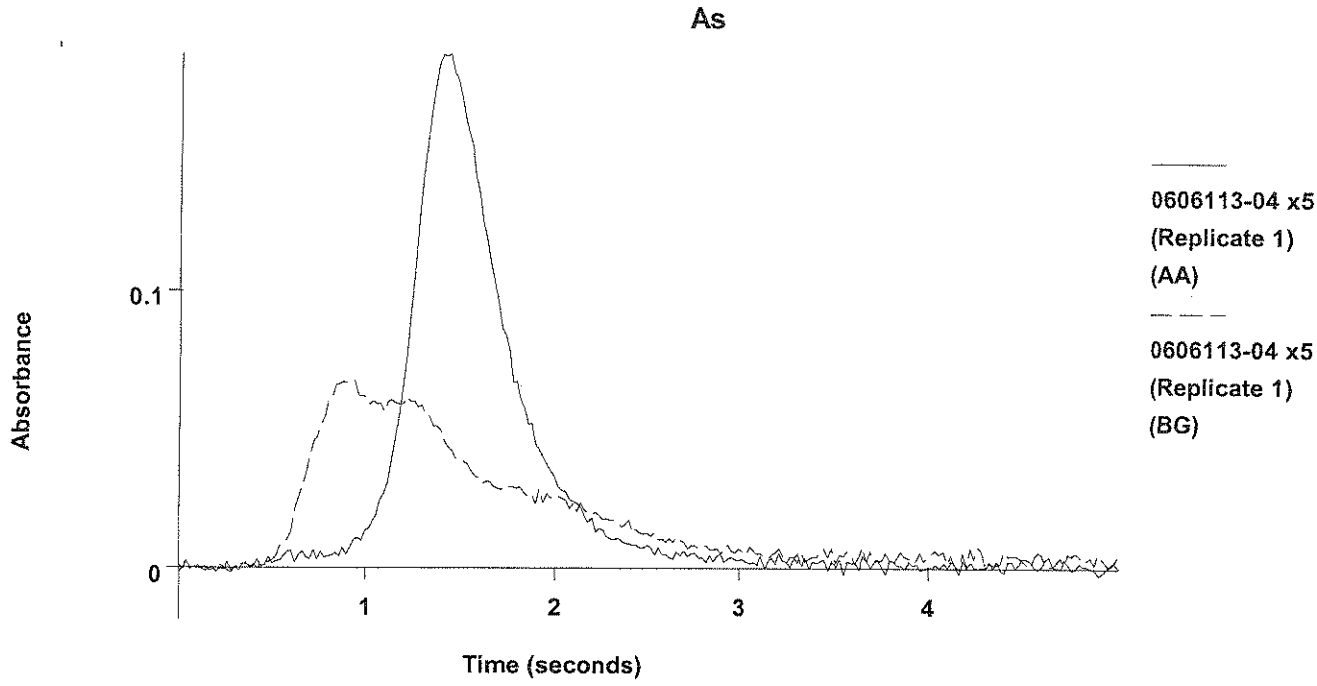
2	0.0019	0.0019	0.0067	0.0628	0.0774	06:15:43	Yes
Mean:	0.0019						
SD :	0.0001						
%RSD:	5.30						

Auto-zero performed.

==========

Element: As Seq. No.: 86 AS Loc.: 17 Date: 06/12/2006
Sample ID: 0606113-04 x5
µL dispensed: 20 from 148, 5 from 147, 5 from 17

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	100	33.4	0.1093	0.1111	0.1853	0.0854	0.0677	06:18:34	Yes

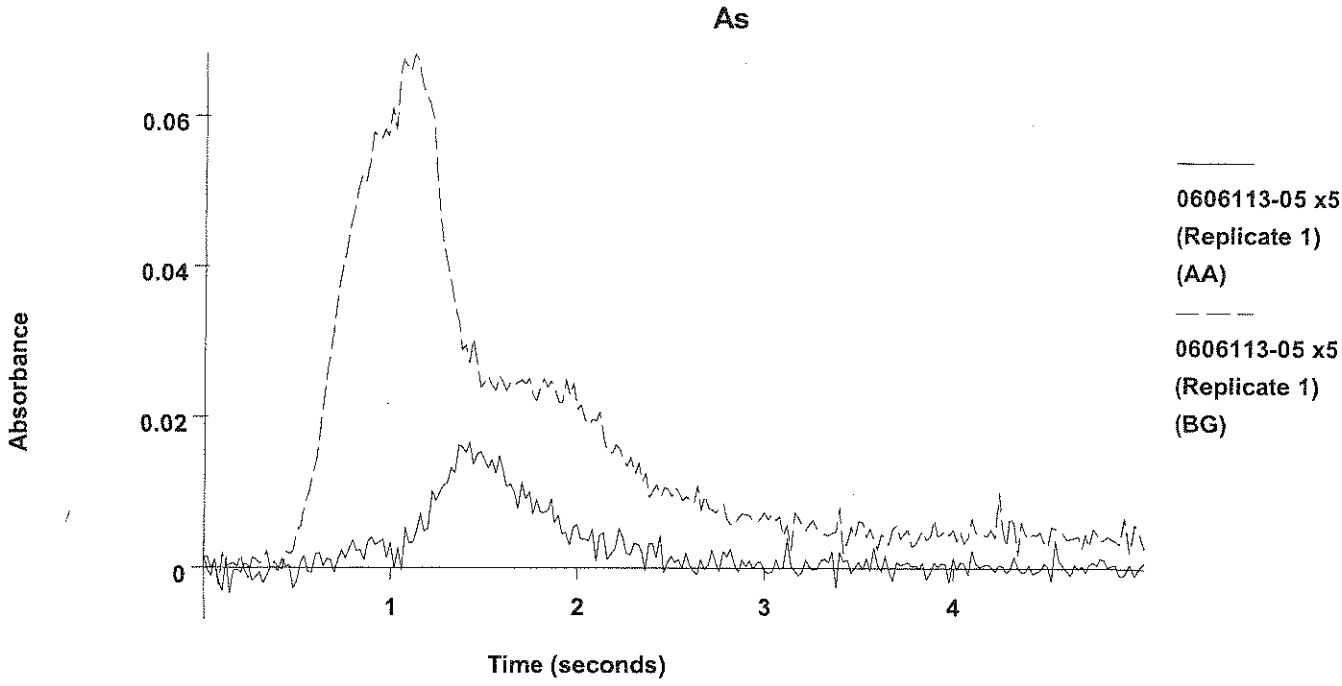


2	104	34.5	0.1130	0.1149	0.1994	0.0862	0.0683	06:21:24 Yes
Mean:	102	33.9	0.1111					
SD :	2.43	0.81	0.0026					
%RSD:	2.39	2.39	2.38					

15X

Element: As Seq. No.: 87 AS Loc.: 18 Date: 06/12/2006
Sample ID: 0606113-05 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 18

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.6	2.6	0.0090	0.0121	0.0167	0.0756	0.0682	06:24:14	Yes

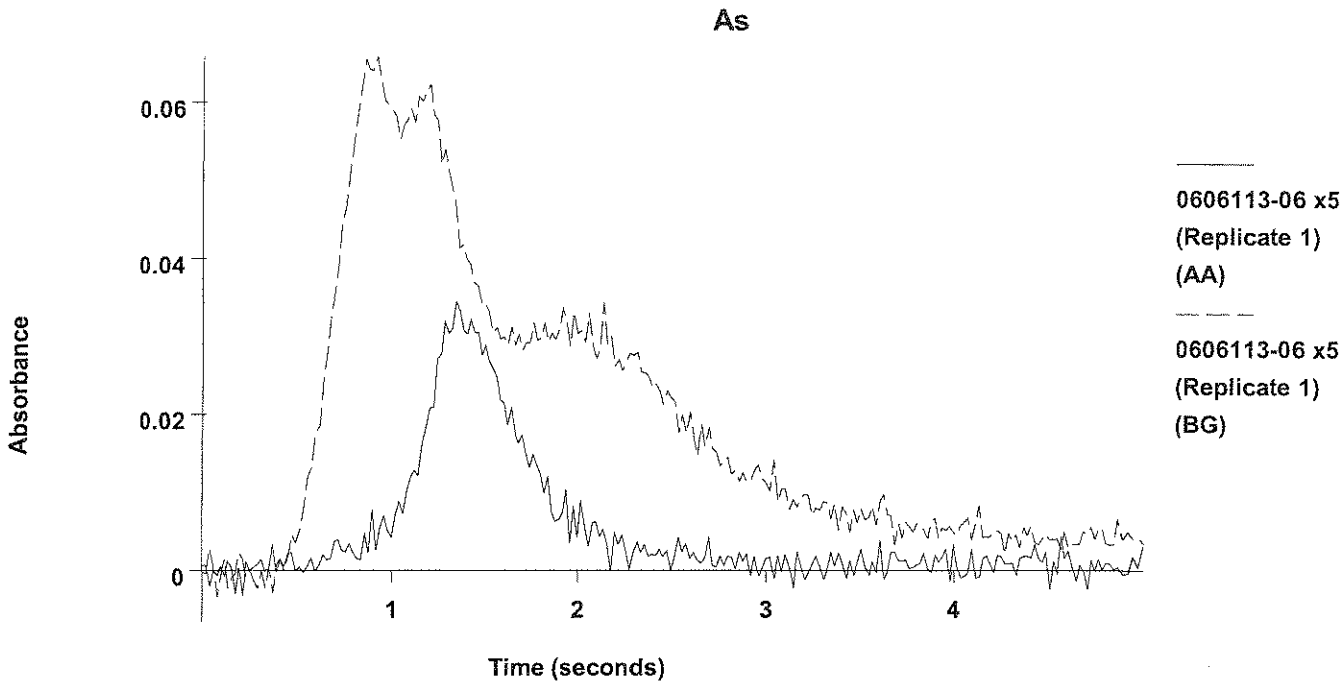


2	2.9	2.9	0.0100	0.0130	0.0208	0.0847	0.0707	06:27:06	Yes
Mean:	2.7	2.7	0.0095						
SD :	0.21	0.21	0.0007						
%RSD:	7.77	7.77	7.35						

ND

Element: As Seq. No.: 88 AS Loc.: 19 Date: 06/12/2006
Sample ID: 0606113-06 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 19

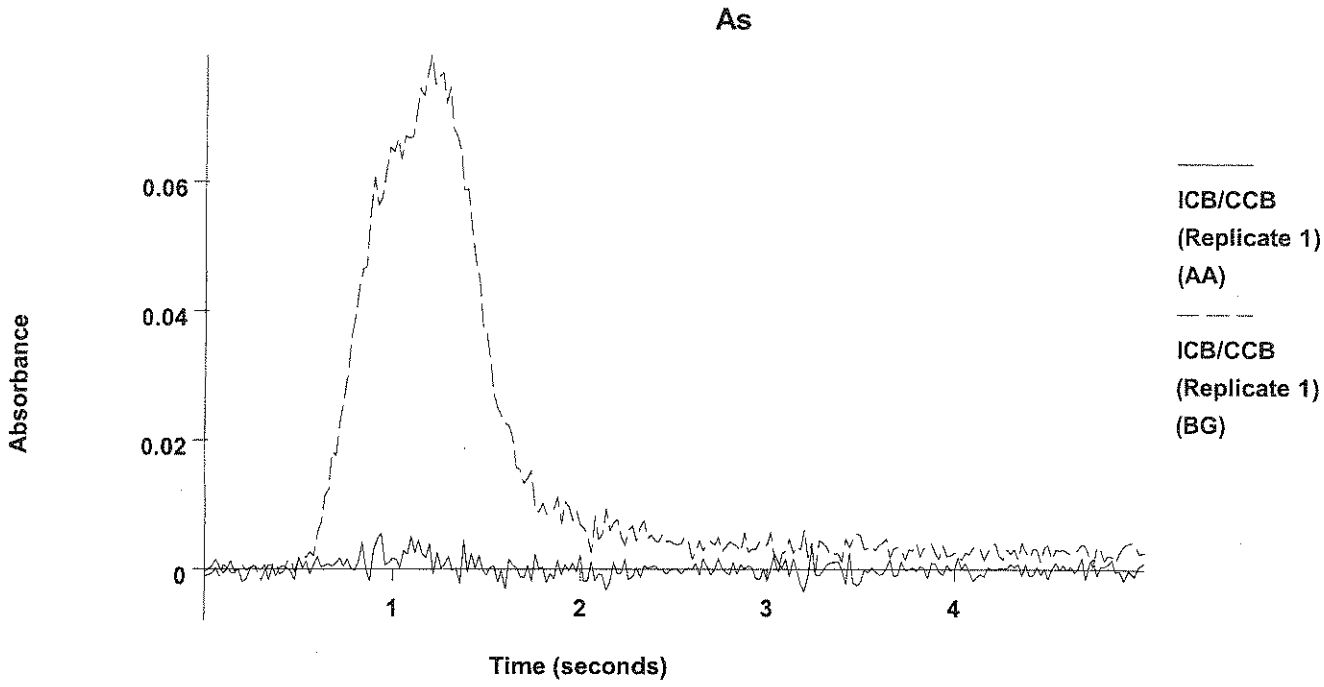
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	6.3	6.3	0.0211	0.0241	0.0345	0.0942	0.0659	06:29:56	Yes



2	6.0	6.0	0.0201	0.0231	0.0356	0.1024	0.0708	06:32:47 Yes
Mean:	6.2	6.2	0.0206					
SD :	0.22	0.22	0.0007					
%RSD:	3.54	3.54	3.45					

Element: As Seq. No.: 89 AS Loc.: 126 Date: 06/12/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.4	24.4	0.0802	0.0820	0.1690	0.0686	0.0691	06:35:39	Yes



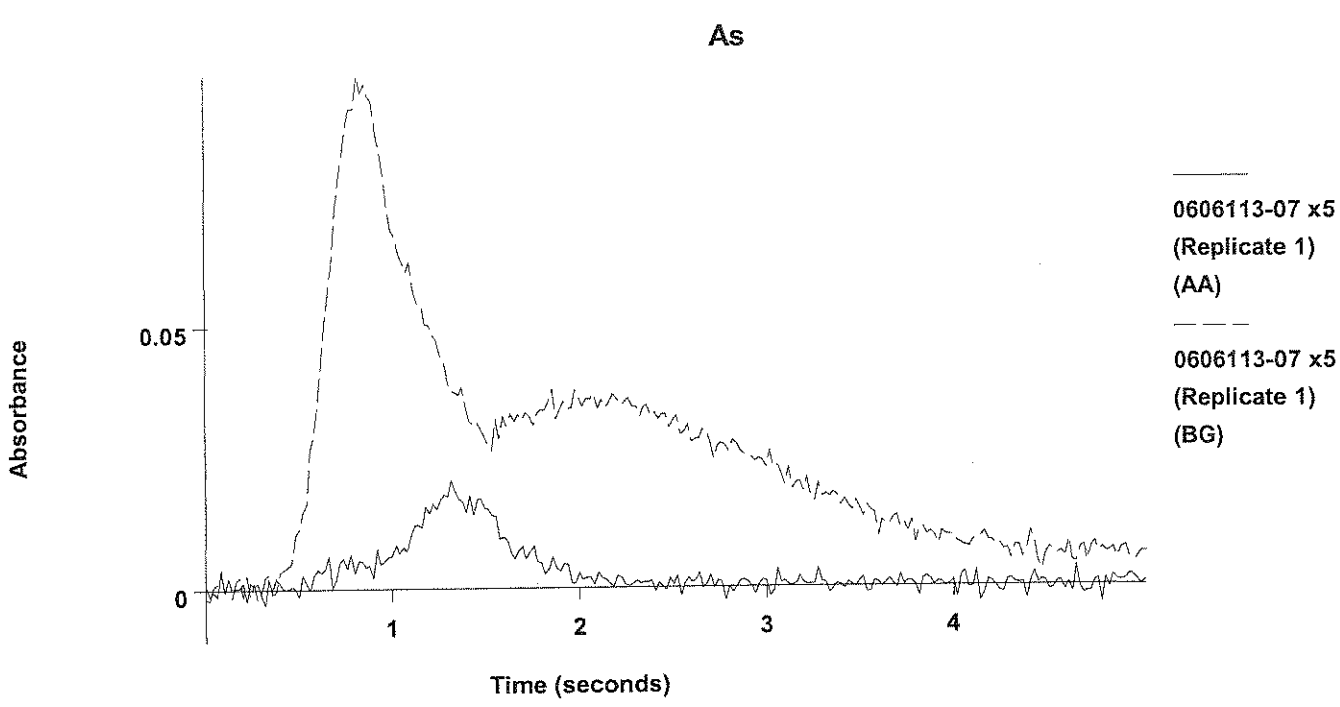
2	-0.6	-0.6	-0.0014	0.0005	0.0058	0.0598	0.0748	06:44:13 Yes
Mean:	-0.5	-0.5	-0.0012					
SD :	0.10	0.10	0.0003					
%RSD:	18.8	18.8	27.17					

QC value within specified limits.

==========

Element: As Seq. No.: 91 AS Loc.: 20 Date: 06/12/2006
Sample ID: 0606113-07 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 20

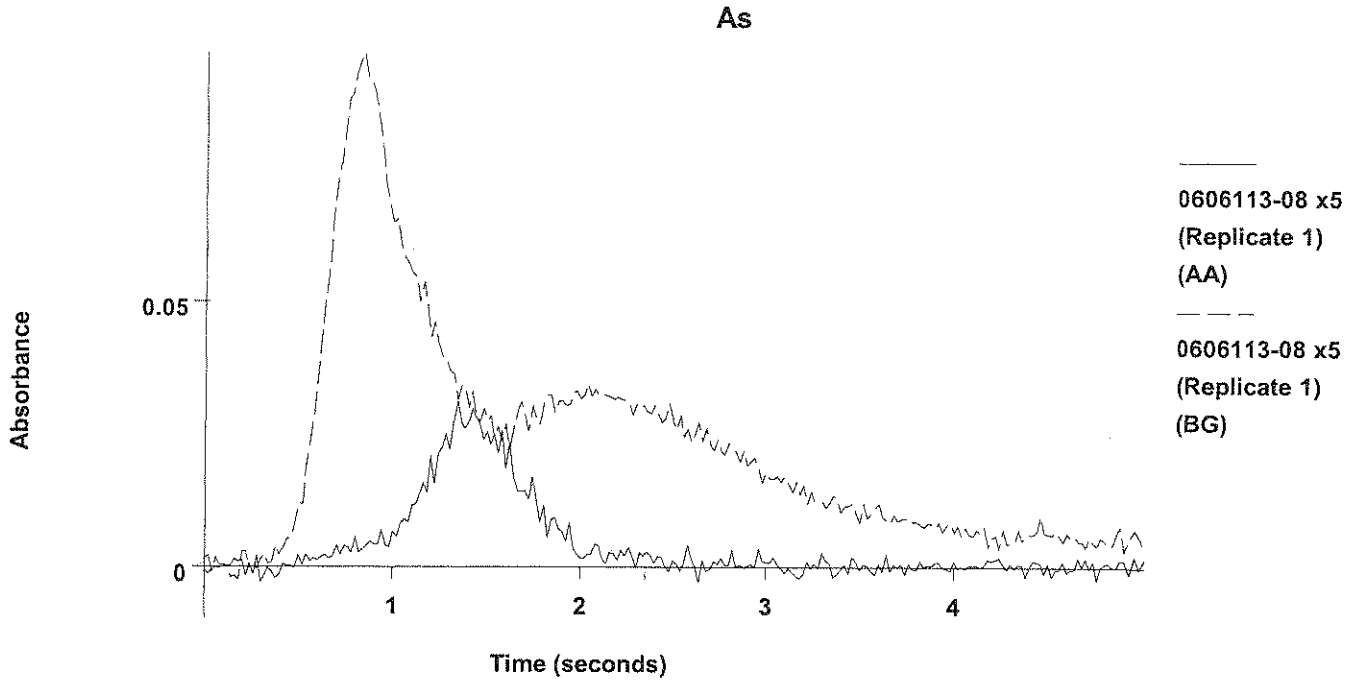
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.2	3.2	0.0110	0.0141	0.0207	0.1268	0.0980	06:47:03	Yes



2	2.9	2.9	0.0100	0.0131	0.0213	0.1347	0.1035	06:49:54	Yes
Mean:	3.1	3.1	0.0105						
SD :	0.22	0.22	0.0007						
%RSD:	7.18	7.18	6.82						

Element: As Seq. No.: 92 AS Loc.: 21 Date: 06/12/2006
Sample ID: 0606113-08 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 21

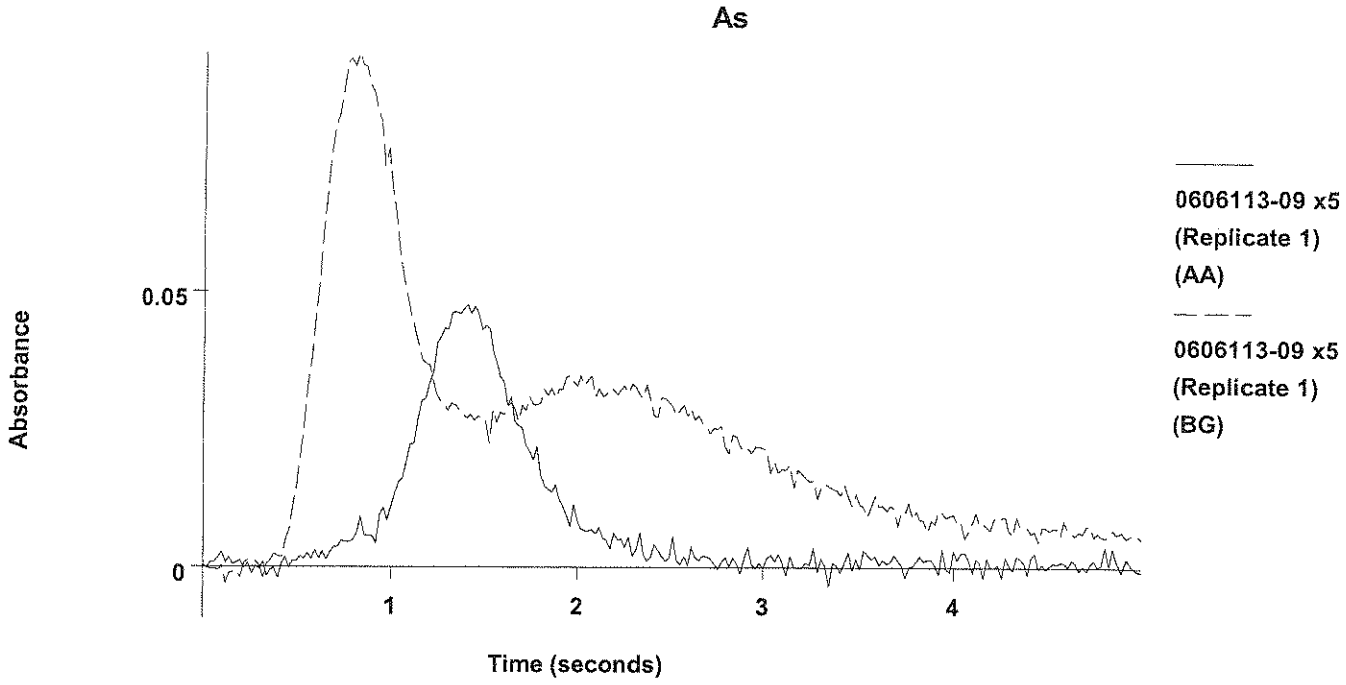
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	4.9	4.9	0.0165	0.0196	0.0312	0.1138	0.0969	06:52:45	Yes



2	5.4	5.4	0.0180	0.0210	0.0290	0.1094	0.0936	06:55:36	Yes
Mean:	5.1	5.1	0.0172						
SD :	0.32	0.32	0.0010						
%RSD:	6.16	6.16	5.97						

Element: As Seq. No.: 93 AS Loc.: 22 Date: 06/12/2006
Sample ID: 0606113-09 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 22

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	9.9	9.9	0.0327	0.0358	0.0476	0.1169	0.0933	06:58:26	Yes



2	9.6	9.6	0.0317	0.0347	0.0483	0.1120	0.0863	07:01:17 Yes
Mean:	9.7	9.7	0.0322					
SD :	0.23	0.23	0.0007					
%RSD:	2.32	2.32	2.28					

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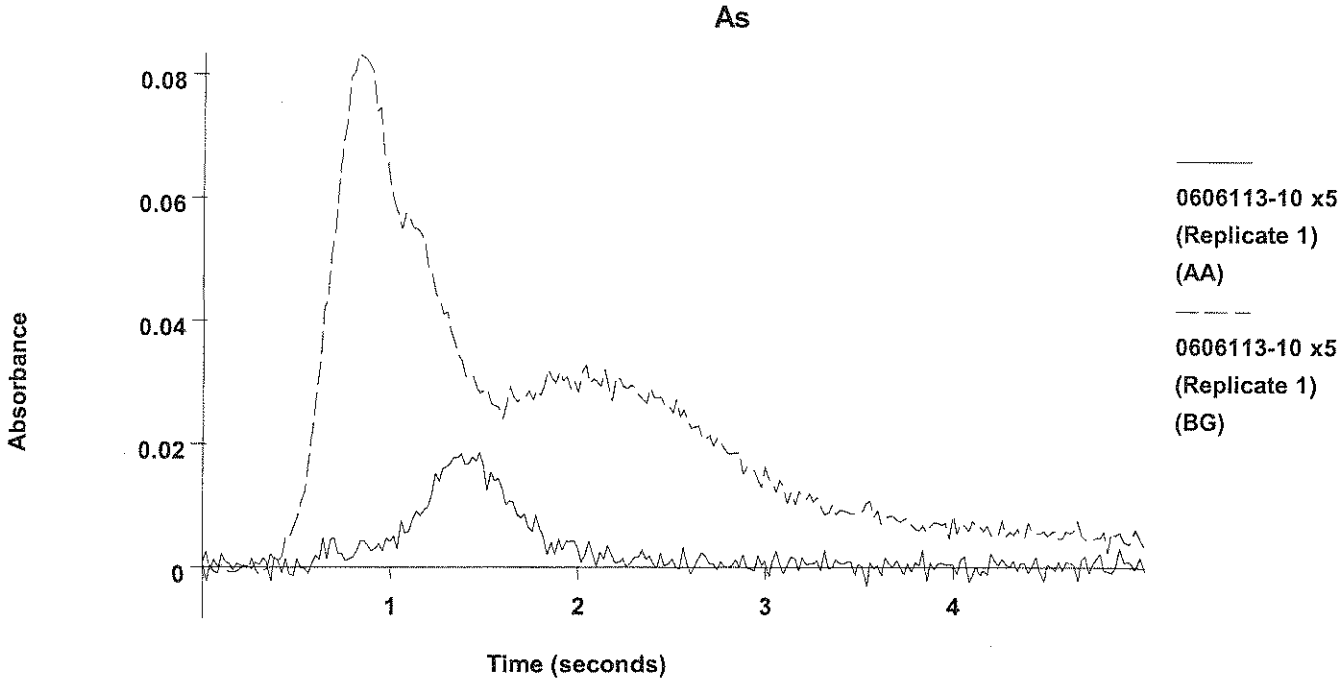
Element: As Seq. No.: 94 AS Loc.: 23 Date: 06/12/2006
Sample ID: 0606113-10 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 23

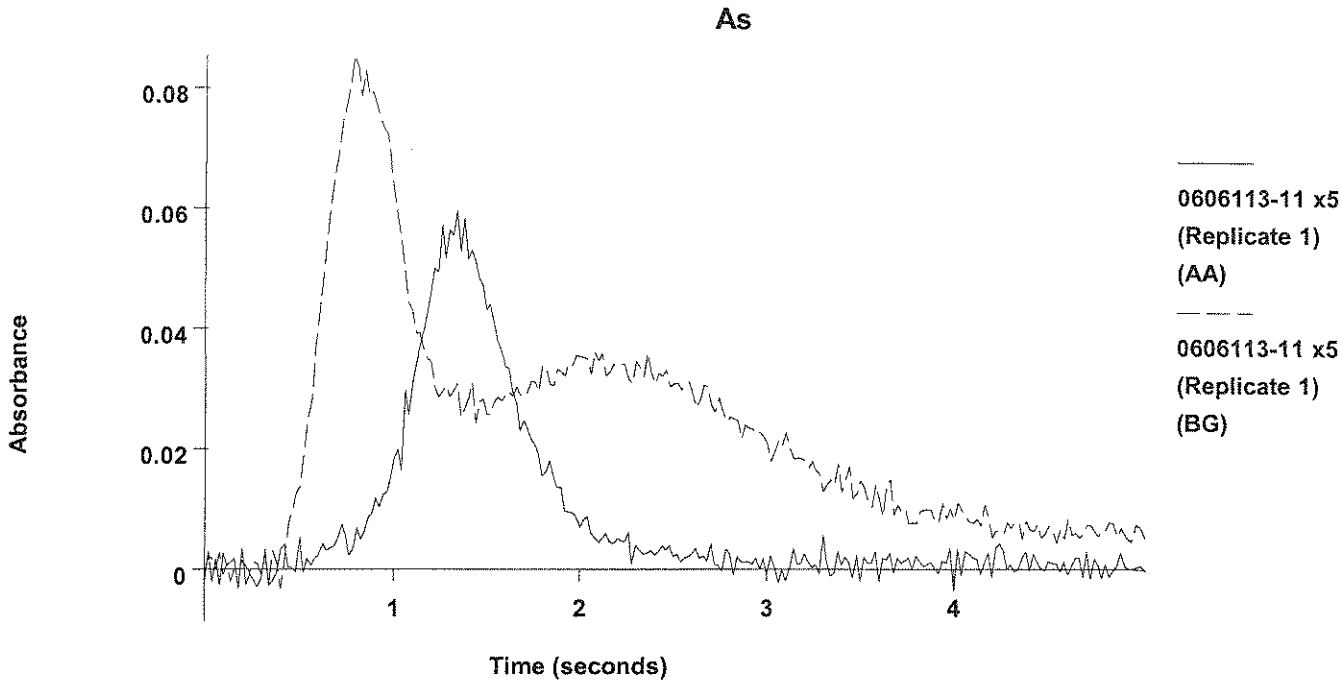
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	2.9	2.9	0.0100	0.0131	0.0186	0.1041	0.0833	07:04:08	Yes



2	2.8	2.8	0.0097	0.0128	0.0208	0.1030	0.0824	07:06:59	Yes
Mean:	2.9	2.9	0.0099						
SD :	0.08	0.08	0.0003						
%RSD:	2.68	2.68	2.54						

Element: As Seq. No.: 95 AS Loc.: 24 Date: 06/12/2006
Sample ID: 0606113-11 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 24

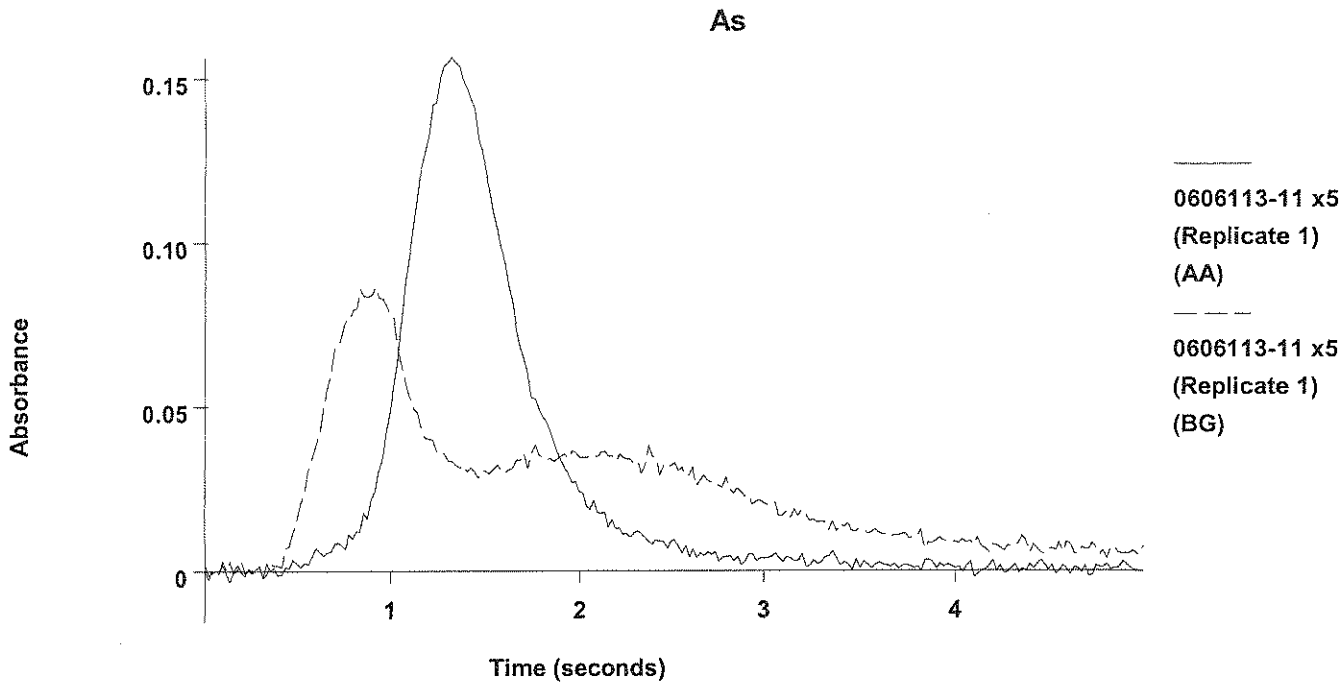
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	11.5	11.5	0.0381	0.0412	0.0595	0.1154	0.0853	07:09:50	Yes



2	12.1	12.1	0.0398	0.0429	0.0584	0.1205	0.0866	07:12:42 Yes
Mean:	11.8	11.8	0.0390					
SD :	0.38	0.38	0.0012					
%RSD:	3.21	3.21	3.17					

Element: As Seq. No.: 96 AS Loc.: 24 Date: 06/12/2006
Sample ID: 0606113-11 x5
µL dispensed: 4 from 148, 5 from 147, 6 from 131, 15 from 24

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	33.3	33.3	0.1091	0.1122	0.1565	0.1207	0.0865	07:15:39	Yes



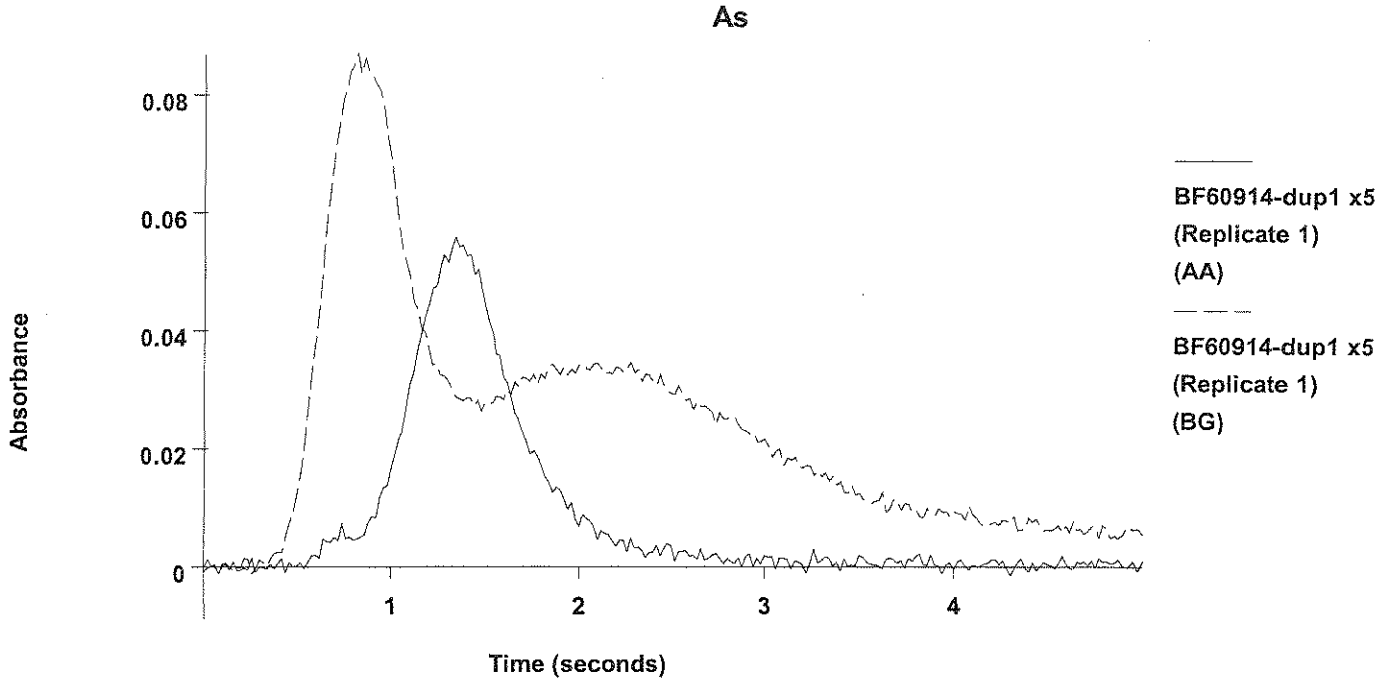
2	33.2	33.2	0.1087	0.1117	0.1550	0.1159	0.0878	07:18:37 Yes
Mean:	33.3	33.3	0.1089					
SD :	0.10	0.10	0.0003					
%RSD:	0.31	0.31	0.31					

Recovery for As = 107.3 % within 85 % to 115 %

==========

Element: As Seq. No.: 97 AS Loc.: 25 Date: 06/12/2006
Sample ID: BF60914-dup1 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 25

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	11.0	11.0	0.0363	0.0394	0.0559	0.1171	0.0871	07:21:27	Yes

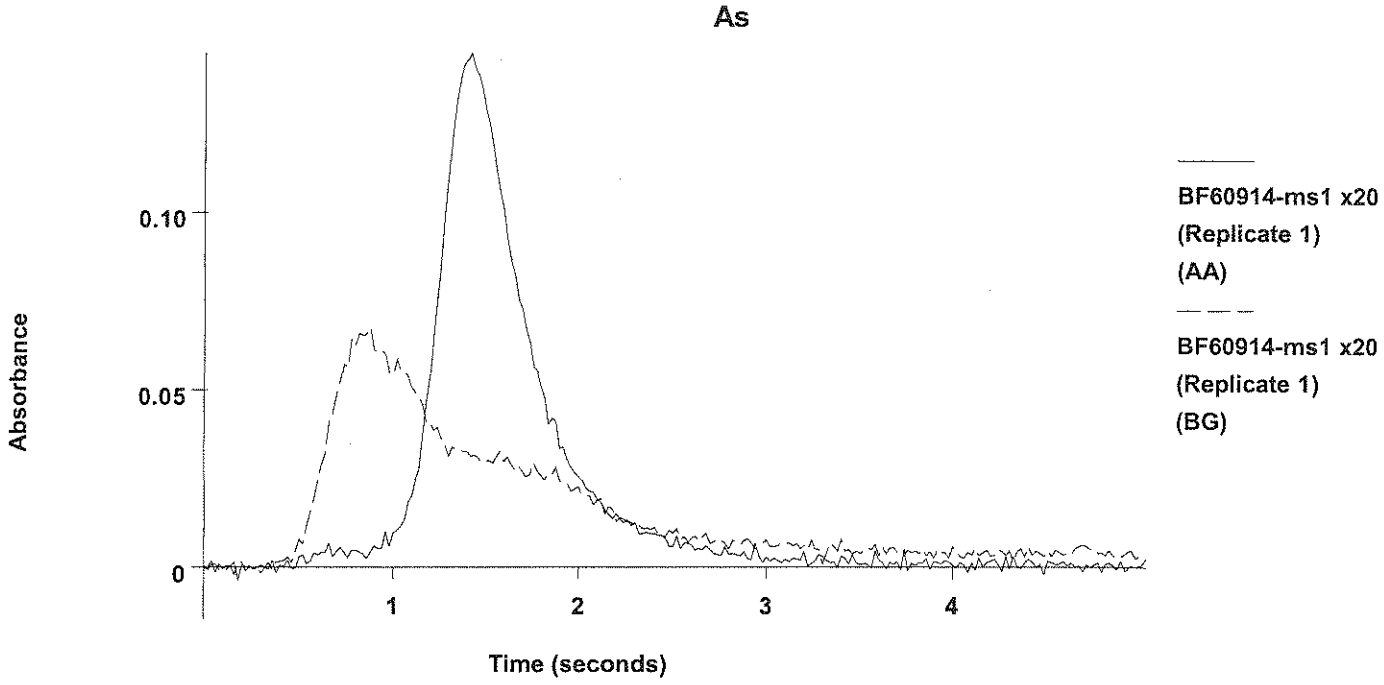


2	11.6	11.6	0.0382	0.0412	0.0559	0.1158	0.0875	07:24:18 Yes
Mean:	11.3	11.3	0.0372					
SD :	0.41	0.41	0.0013					
%RSD:	3.65	3.65	3.59					

$\frac{11.8 - 11.3}{11.55} \times 45$

Element: As Seq. No.: 98 AS Loc.: 26 Date: 06/12/2006
Sample ID: BF60914-ms1 x20
µL dispensed: 10 from 148, 5 from 147, 15 from 26

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	25.6	25.6	0.0839	0.0870	0.1448	0.0768	0.0675	07:27:08	Yes

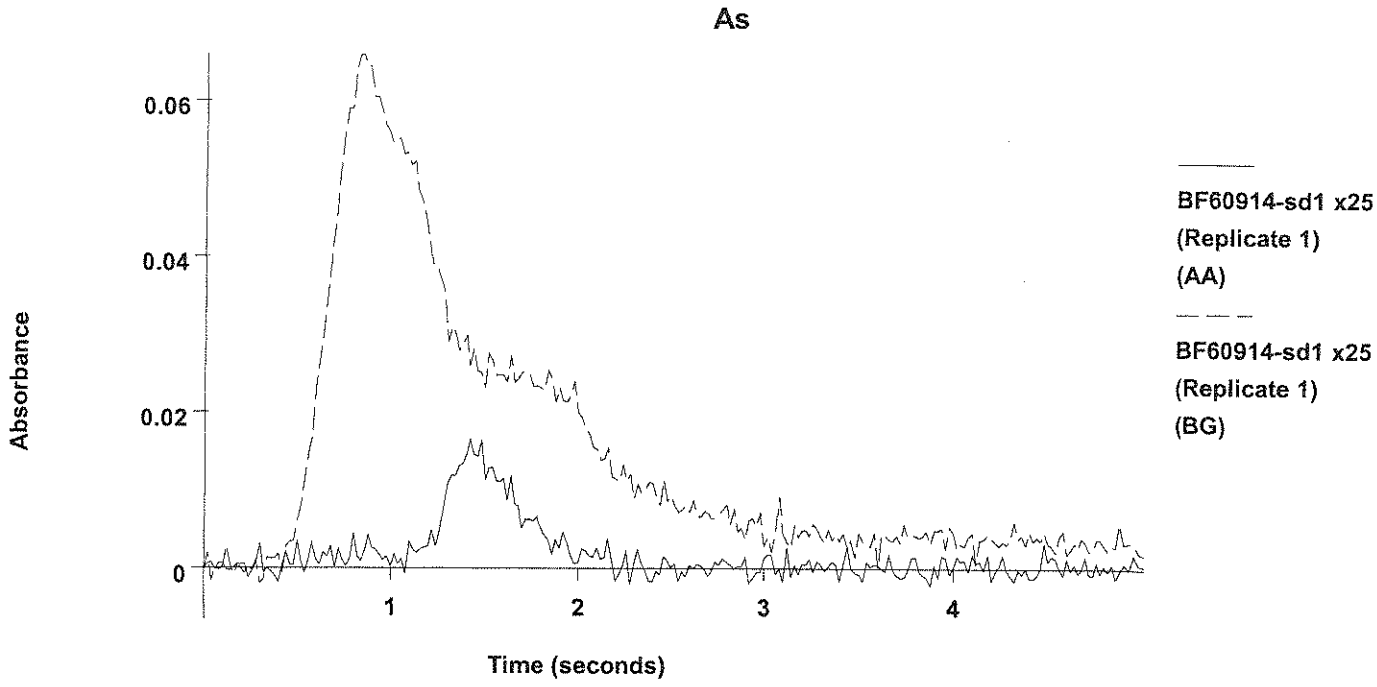


2	25.5	25.5	0.0837	0.0867	0.1547	0.0789	0.0692	07:29:58 Yes
Mean:	25.6	25.6	0.0838					
SD :	0.06	0.06	0.0002					
%RSD:	0.23	0.23	0.23					

25.6(20) - 11.8(5) / 500 = 915

Element: As Seq. No.: 99 AS Loc.: 27 Date: 06/12/2006
Sample ID: BF60914-sd1 x25
µL dispensed: 10 from 148, 5 from 147, 15 from 27

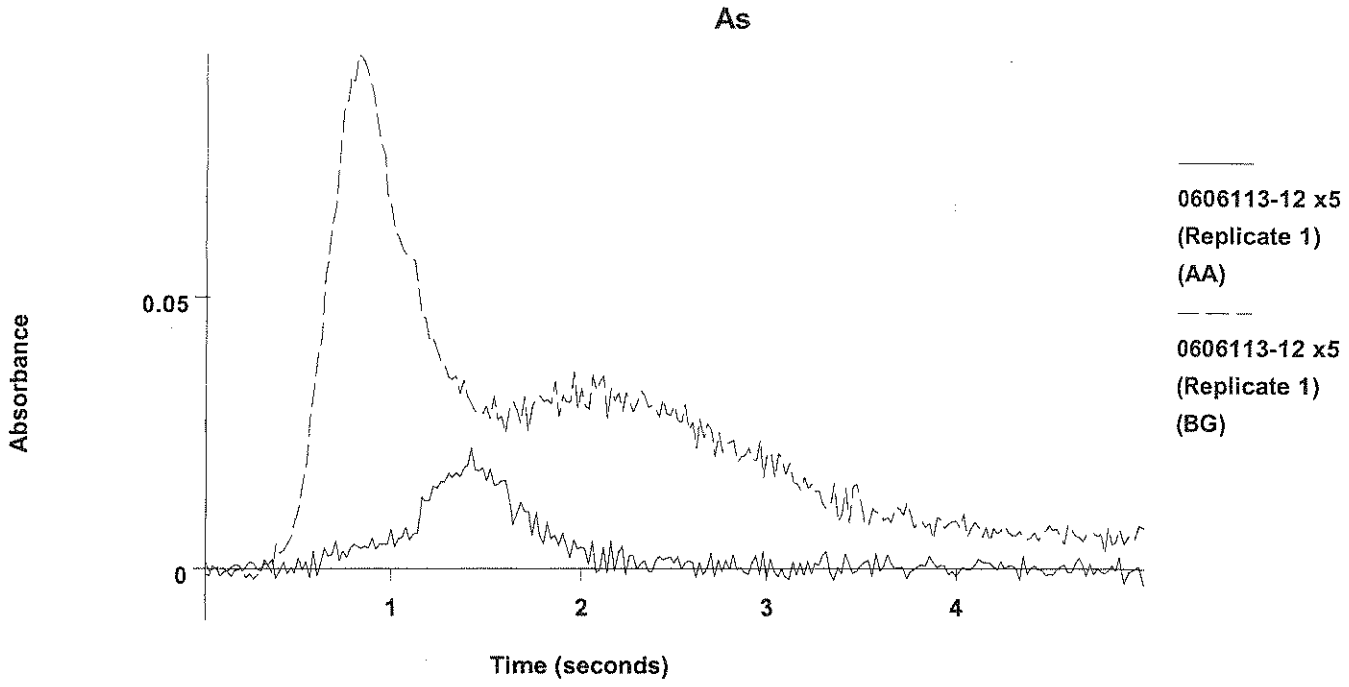
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	1.5	1.5	0.0056	0.0086	0.0165	0.0715	0.0659	07:32:47	Yes



2	2.1	2.1	0.0075	0.0105	0.0169	0.0691	0.0659	07:35:38	Yes
Mean:	1.8	1.8	0.0065						
SD :	0.41	0.41	0.0014						
%RSD:	22.6	22.6	20.77						

Element: As Seq. No.: 100 AS Loc.: 28 Date: 06/12/2006
Sample ID: 0606113-12 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 28

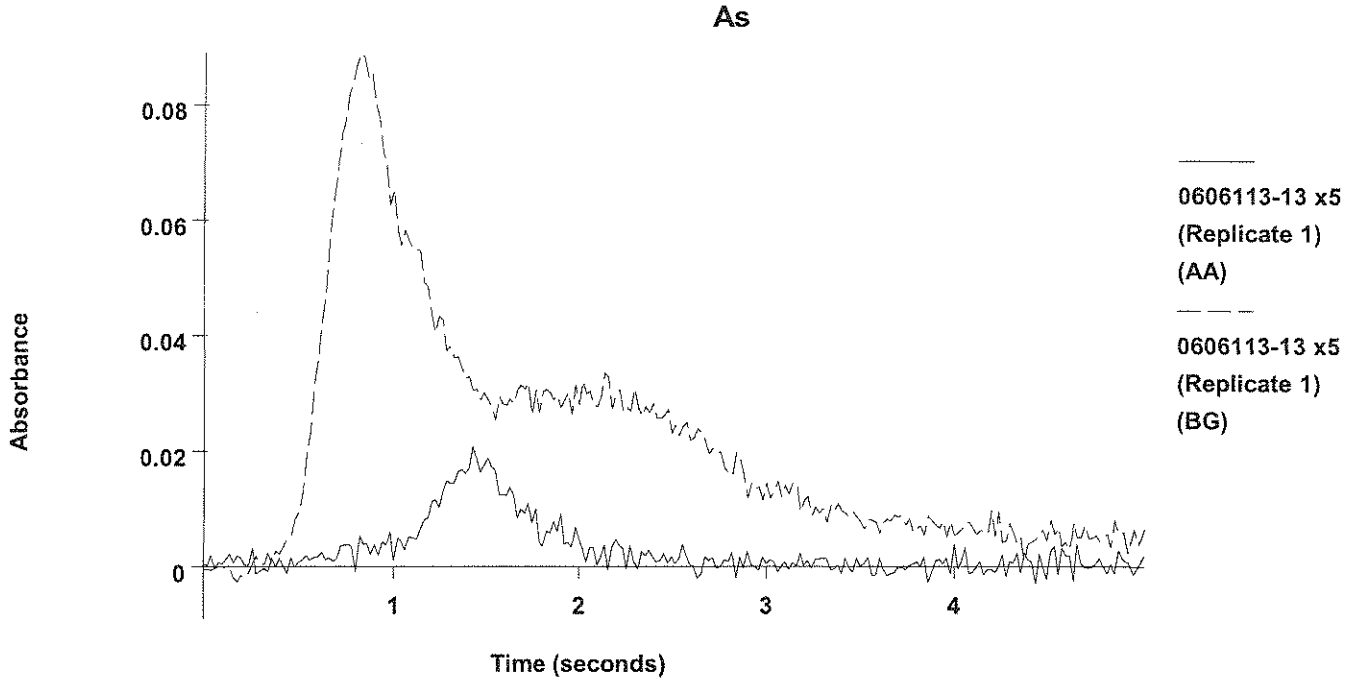
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.3	3.3	0.0111	0.0142	0.0222	0.1159	0.0947	07:38:28	Yes



2	3.3	3.3	0.0114	0.0145	0.0215	0.1154	0.0975	07:41:18	Yes
Mean:	3.3	3.3	0.0113						
SD :	0.06	0.06	0.0002						
%RSD:	1.90	1.90	1.82						

Element: As Seq. No.: 101 AS Loc.: 29 Date: 06/12/2006
Sample ID: 0606113-13 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 29

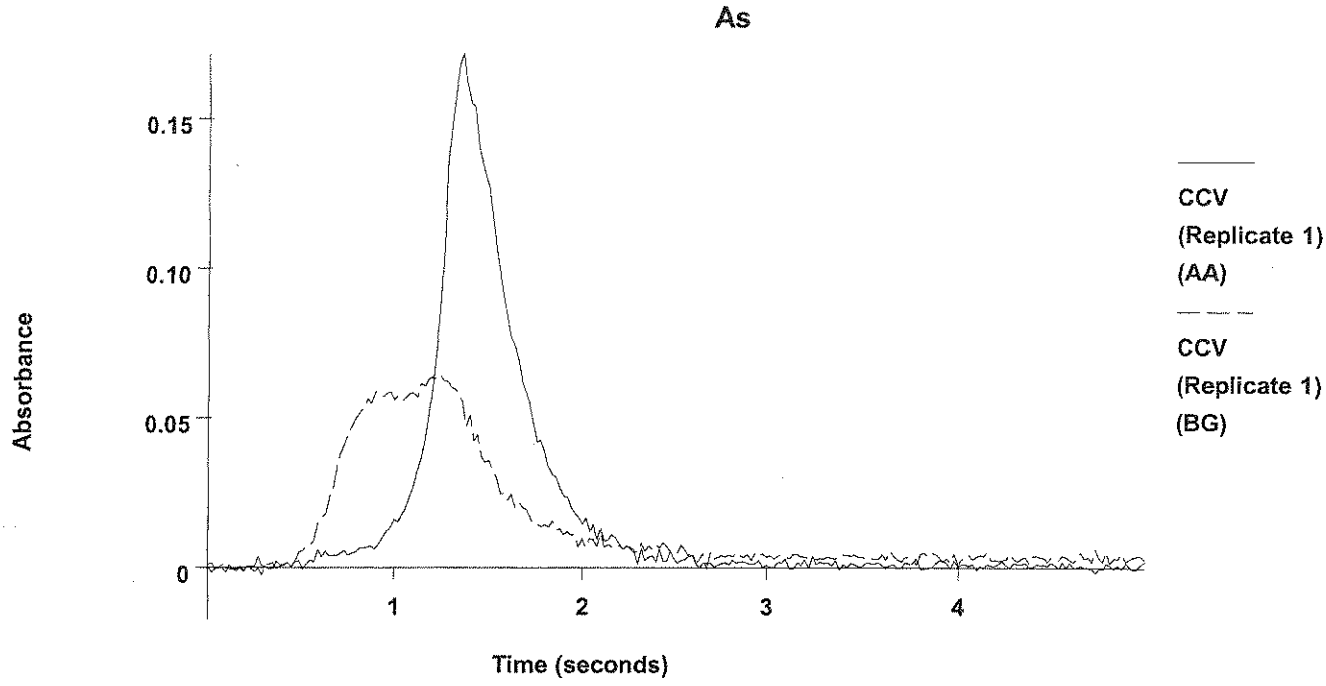
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.2	3.2	0.0108	0.0139	0.0207	0.1058	0.0889	07:44:07	Yes



2	2.9	2.9	0.0098	0.0129	0.0191	0.1044	0.0841	07:46:58	Yes
Mean:	3.0	3.0	0.0103						
SD :	0.21	0.21	0.0007						
%RSD:	7.04	7.04	6.68						

Element: As Seq. No.: 102 AS Loc.: 126 Date: 06/12/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.7	24.7	0.0810	0.0828	0.1719	0.0673	0.0643	07:49:51	Yes



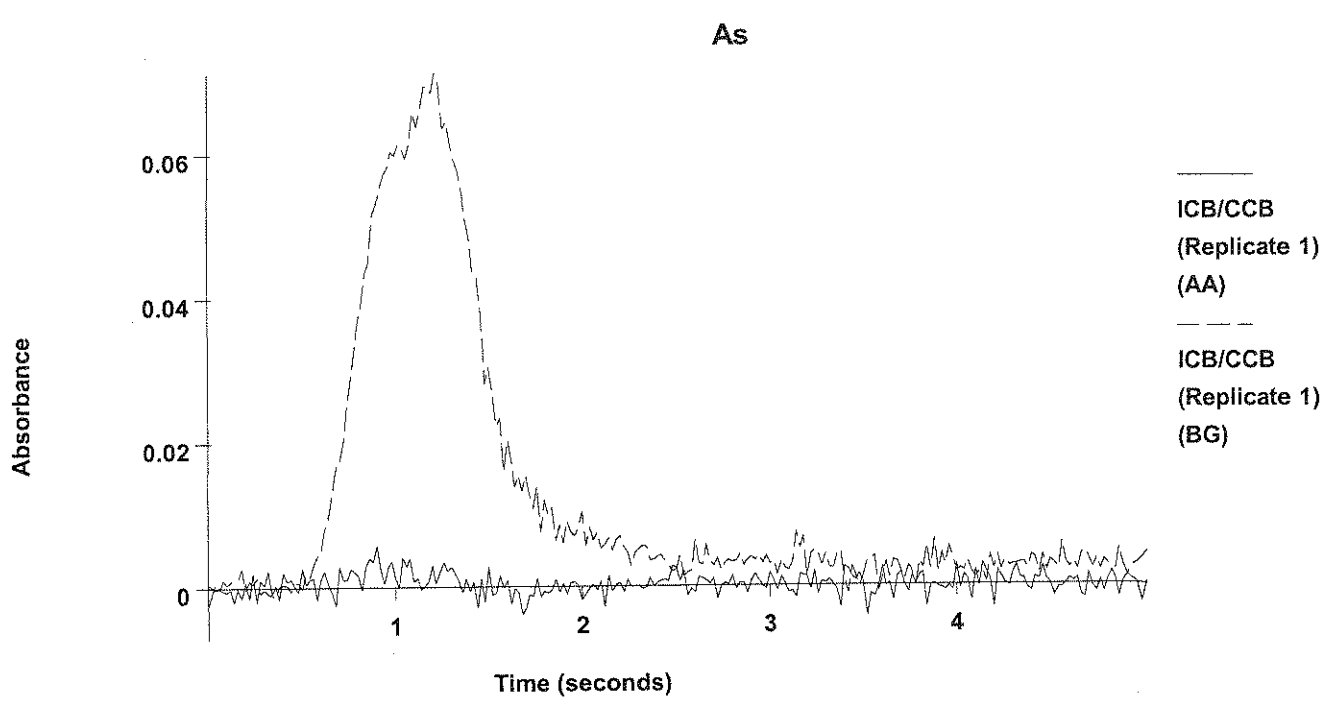
2	24.2	24.2	0.0795	0.0813	0.1673	0.0661	0.0641	07:52:43 Yes
Mean:	24.5	24.5	0.0802					
SD :	0.33	0.33	0.0011					
%RSD:	1.34	1.34	1.33					

QC value within specified limits.

==========

Element: As Seq. No.: 103 AS Loc.: 148 Date: 06/12/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.2	-0.2	0.0000	0.0018	0.0058	0.0601	0.0712	07:55:34	Yes



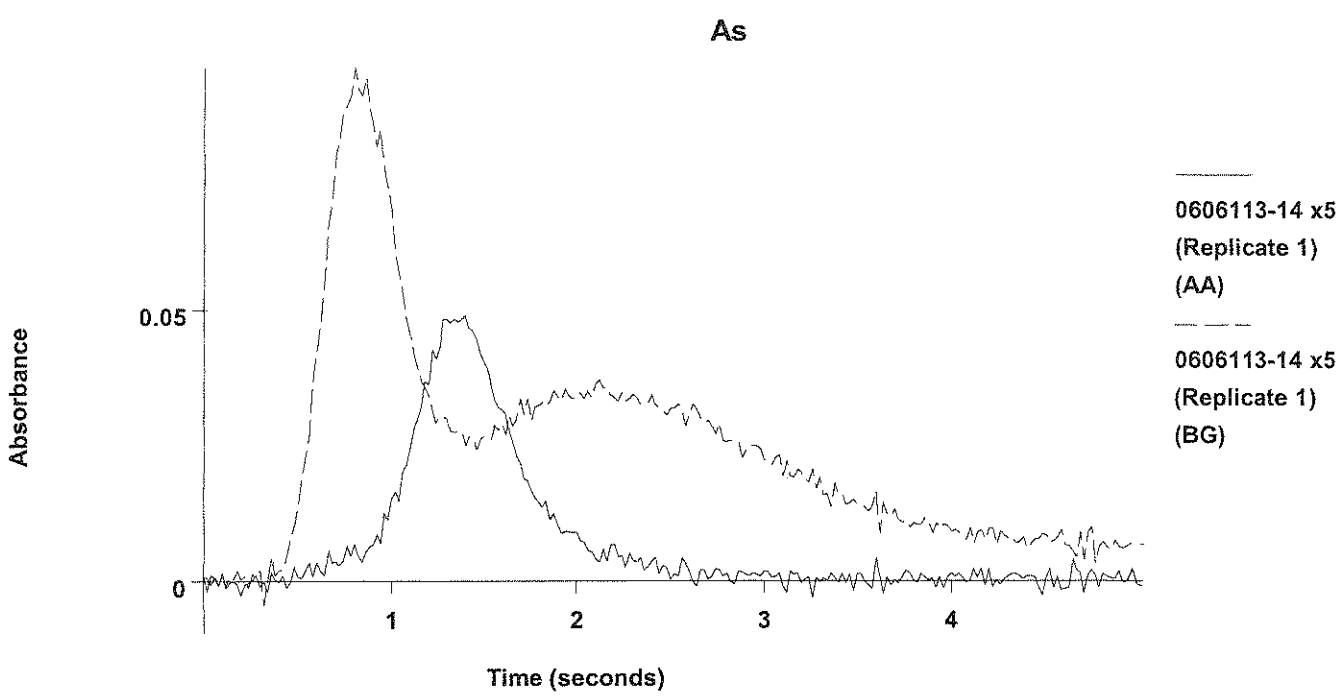
2	-0.5	-0.5	-0.0011	0.0008	0.0047	0.0613	0.0691	07:58:25	Yes
Mean:	-0.3	-0.3	-0.0006						
SD :	0.23	0.23	0.0008						
%RSD:	69.9	69.9	134.81						

QC value within specified limits.

✓

Element: As Seq. No.: 104 AS Loc.: 30 Date: 06/12/2006
Sample ID: 0606113-14 x5
µL dispensed: 10 from 148, 5 from 147, 15 from 30

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	9.6	9.6	0.0318	0.0349	0.0489	0.1217	0.0947	08:01:15	Yes



2	9.4	9.4	0.0310	0.0341	0.0488	0.1188	0.0908	08:04:05 Yes
Mean:	9.5	9.5	0.0314					
SD :	0.18	0.18	0.0006					
%RSD:	1.88	1.88	1.85					

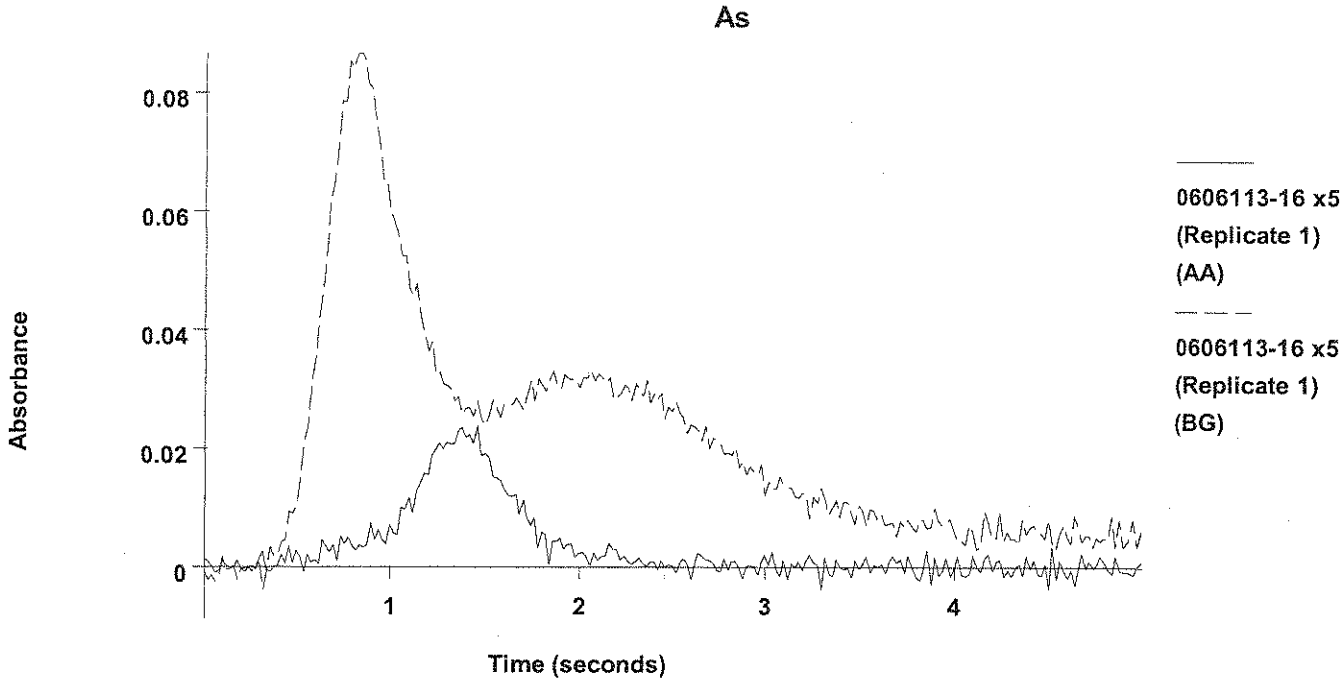
==========

Element: As Seq. No.: 105 AS Loc.: 31 Date: 06/12/2006

Sample ID: 0606113-16 x5

µL dispensed: 10 from 148, 5 from 147, 15 from 31

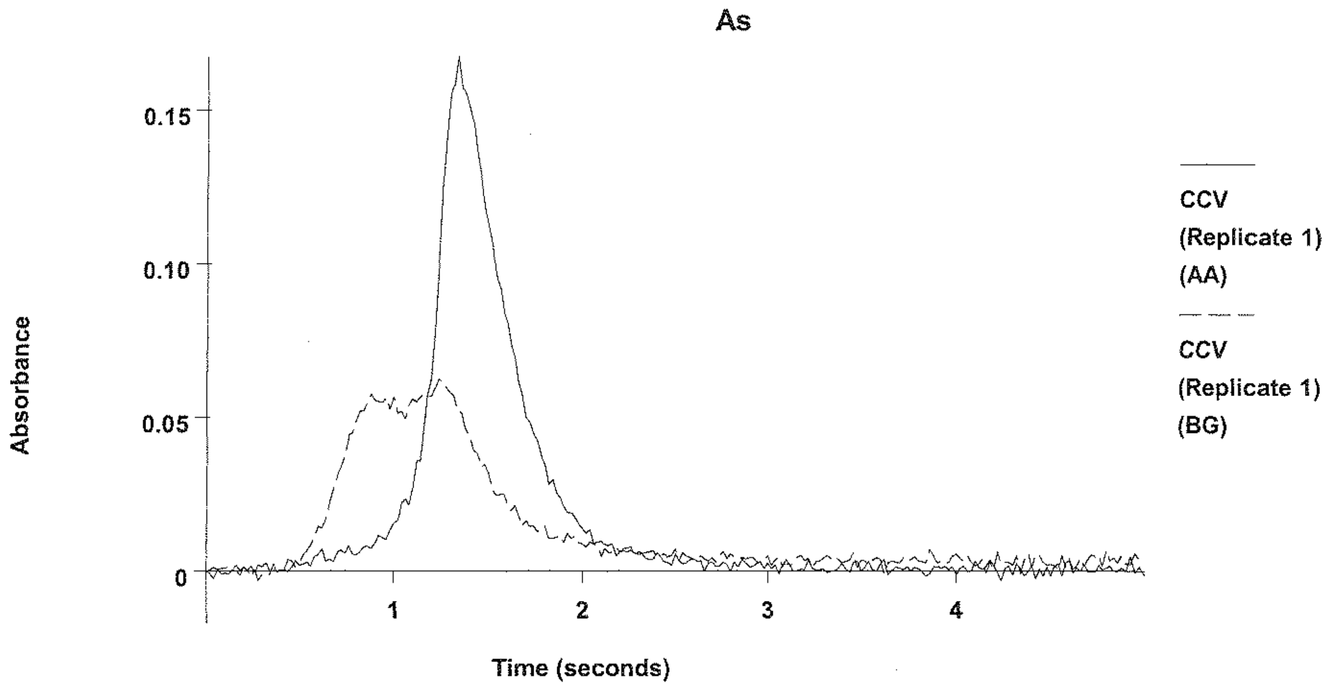
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	3.6	3.6	0.0123	0.0154	0.0238	0.1047	0.0867	08:06:54	Yes



2	3.7	3.7	0.0124	0.0155	0.0230	0.1100	0.0928	08:09:44 Yes
Mean:	3.6	3.6	0.0124					
SD :	0.02	0.02	0.0001					
%RSD:	0.53	0.53	0.51					

Element: As Seq. No.: 106 AS Loc.: 126 Date: 06/12/2006
Sample ID: CCV
µL dispensed: 10 from 148, 5 from 147, 15 from 126

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	24.1	24.1	0.0790	0.0809	0.1674	0.0637	0.0623	08:12:36	Yes



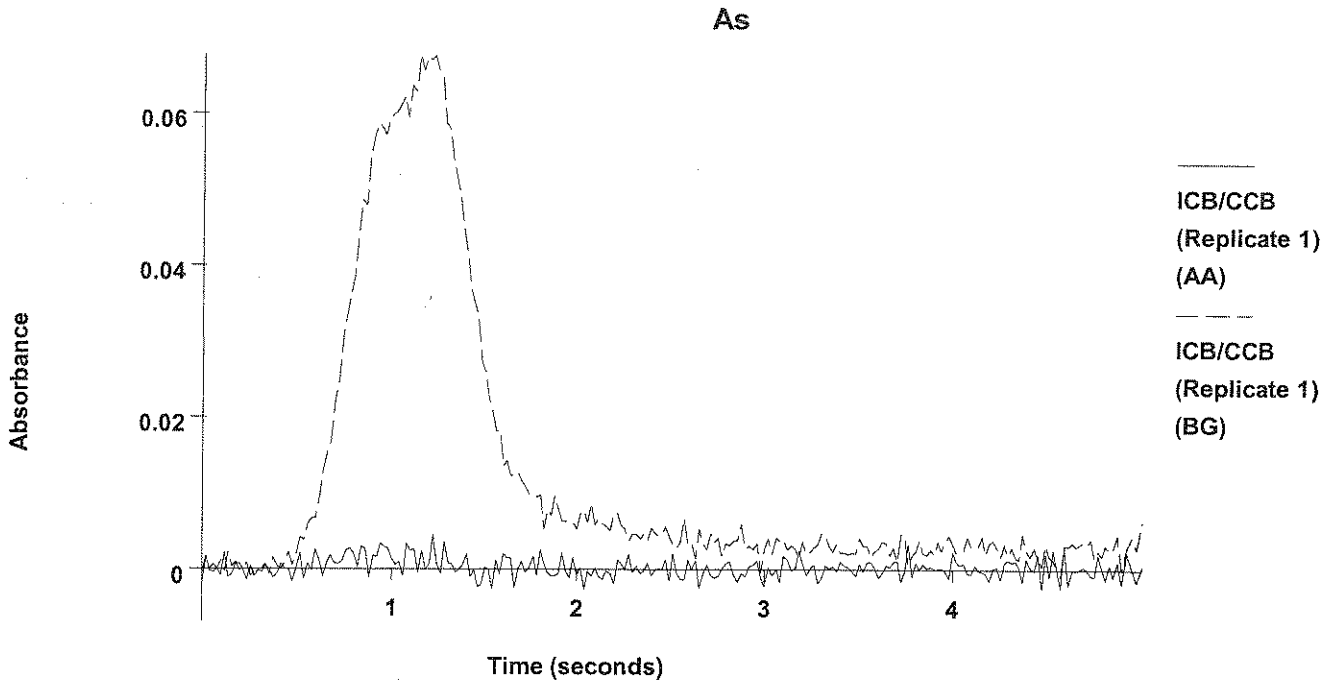
2	23.7	23.7	0.0779	0.0797	0.1650	0.0628	0.0617	08:15:29	Yes
Mean:	23.9	23.9	0.0784						
SD :	0.25	0.25	0.0008						
%RSD:	1.03	1.03	1.03						

QC value within specified limits.

==

Element: As   Seq. No.: 107   AS Loc.: 148   Date: 06/12/2006
Sample ID: ICB/CCB
µL dispensed: 10 from 148, 5 from 147, 15 from 148

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Bkgnd Area	Bkgnd Height	Time	Peak Stored
1	-0.4	-0.4	-0.0006	0.0012	0.0045	0.0590	0.0677	08:18:20	Yes



2	-0.2	-0.2	-0.0003	0.0016	0.0050	0.0581	0.0676	08:21:10 Yes
Mean:	-0.3	-0.3	-0.0004					
SD :	0.08	0.08	0.0003					
%RSD:	26.1	26.1	56.16					

QC value within specified limits.

ANALYSIS SEQUENCE

BPG0189

Instrument: HG1

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0189-CAL1	QC		1		6F09026		
BPG0189-CAL2	QC		2		6F09027		
BPG0189-CAL3	QC		3		6F09028		
BPG0189-CAL4	QC		4		6F09029		
BPG0189-CAL5	QC		5		6F09030		
BPG0189-CAL6	QC		6		6F09031		
BPG0189-ICV1	QC		7		6F09029		
BPG0189-SCV1	QC		8		6F09032		
BPG0189-ICB1	QC		9				
BF60915-BLK1	QC		10				
BF60915-BS1	QC		11				
BPG0189-CCB1	QC		12				
BPG0189-CCV1	QC		13		6F09029		
BF60915-BSD1	QC		14				
BF60915-SRM1	QC		15				
BF60915-DUP1	QC		16				
BF60915-MS1	QC		17				
BF60915-MSD1	QC		18				
BF60915-PS1	QC		19				
BF60915-DUP3	QC		20				
BF60915-MS3	QC		21				
BF60915-PS2	QC		22				
BF60915-MSD3	QC		23				
BPG0189-CCB2	QC		24				
BPG0189-CCV2	QC		25		6F09029		
0606113-01	Hg: ppm Mercury 7471	F	26				MACTEC Engineering & Consulting, In
0606113-03	Hg: ppm Mercury 7471	F	27				MACTEC Engineering & Consulting, In
0606113-04	Hg: ppm Mercury 7471	F	28				MACTEC Engineering & Consulting, In
0606113-05	Hg: ppm Mercury 7471	F	29				MACTEC Engineering & Consulting, In
0606113-06	Hg: ppm Mercury 7471	F	30				MACTEC Engineering & Consulting, In
0606113-07	Hg: ppm Mercury 7471	F	31				MACTEC Engineering & Consulting, In
0606113-08	Hg: ppm Mercury 7471	F	32				MACTEC Engineering & Consulting, In
0606113-09	Hg: ppm Mercury 7471	F	33				MACTEC Engineering & Consulting, In

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

ANALYSIS SEQUENCE

BPG0189

Instrument: HG1

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
0606113-10	Hg: ppm Mercury 7471	F	34				MACTEC Engineering & Consulting, In
0606113-11	Hg: ppm Mercury 7471	F	35				MACTEC Engineering & Consulting, In
BPG0189-CCB3	QC		36				
BPG0189-CCV3	QC		37		6F09029		
0606113-11RE1	Hg: ppm Mercury 7471	F	38				MACTEC Engineering & Consulting, In
0606113-12	Hg: ppm Mercury 7471	F	39				MACTEC Engineering & Consulting, In
0606113-13	Hg: ppm Mercury 7471	F	40				MACTEC Engineering & Consulting, In
0606113-14	Hg: ppm Mercury 7471	F	41				MACTEC Engineering & Consulting, In
0606113-16	Hg: ppm Mercury 7471	F	42				MACTEC Engineering & Consulting, In
BPG0189-SRD1	QC		43				
BPG0189-SRD2	QC		44				
BPG0189-CCB4	QC		45				
BPG0189-CCV4	QC		46		6F09029		
BPG0189-CCV5	QC		47		6F09029		
BPG0189-CCV6	QC		48		6F09029		
BPG0189-CCV7	QC		49		6F09029		
BPG0189-CCB5	QC		50				
BPG0189-CCB6	QC		51				
BPG0189-CCB7	QC		52				

Samples Loaded By Date

Data Processed By Date

01-16

Data Review Check List for Mercury

Project Number(s): 06113.136 **Run Date:** 6/10/06

Batch Number (s): 061006A

SOP Number: 30_2451 or 30_7471A

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the daily standard curve consist of a Calibration Blank and the required 5 Calibration Standards?	X		
2. Is the CCV standard analyzed immediately after the curve? Does this CCV meet QC limits (± 5% for 245.1 and ±10% for 7470/1A.)	X		
3. Is the ICV from a second source and is its percent recovery within QC limits (± 10%)?	X		
4. Is the method blank run at the required frequency (1 per batch) and not exceed the MRL?	X		
5. Is the LCS from a source separate from the calibration standards and is its percent recovery within QC limits (± 15% for 245.1 and ±20% for 7470/1A)?	X		
6. Are Matrix Spikes run at the required frequency (1 per ten samples or per analytical batch)? Is the percent recovery for Matrix Spikes within 75-125% (***80-120% for USACE/Navy***)?	X		
7. Are Duplicates run the required frequency (1 per ten samples or per analytical batch)? Is the relative percent difference within QC limits (≤ 20% for aqueous and <35% for soil/sediments (≤20% for USACE))?	X		
8. Is the CCV standard (STD3) also analyzed after every tenth sample and at the end of the sample run? Does this CCV meet QC limits (± 10%)	X		
9. Are all the samples with concentrations greater than the highest standard used for initial calibration reprocessed and reanalyzed?	X		
10. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion (± 10%RPD)?	X		
11. Has the post dilution spike been analyzed at the required frequency (once per analytical batch) and are results within criterion (85-115%)?	X		
12. Are all sample holding times met?	X		
13. Are all non-conformances included and noted?	X		
14. Are all sample IDs and units checked for transcription errors?	X		

Comments on any "No" response:
06113-11 w/QC NO

Analyst: _____ Date: 6/10/06

Second Level Review: Erin E Minot Date: 6/12/06

Control Number: 30.0012-0602A (R. 1 8/2000) Page _____

Autosampler Loading List

Sample Information File: 061006A.SIF
Methods: Hg_5ppb Shigh

Location	Elements	Solution
0	Hg	Wash Solution
1	Hg	Calib Blank
	Hg	ICCB: 0.0000 µg/L
2	Hg	0.5 ug/L: 0.5 µg/L
3	Hg	1.0 ug/L: 1.0 µg/L
4	Hg	3.0 ug/L: 3.0 µg/L
	Hg	STD 3.0: 3.0000 µg/L
5	Hg	5.0 ug/L: 5.0 µg/L
6	Hg	10.0 ug/L: 10.0 µg/L
7	Hg	ICV: 3.0000 µg/L
9	Hg	Sample: BF60915-blk1
10	Hg	Sample: BF60915-bs1
11	Hg	Sample: BF60915-bsd1
12	Hg	Sample: BF60915-srm1 x10
13	Hg	Sample: 0606113-01
14	Hg	Sample: 0606113-03
15	Hg	Sample: 0606113-04
16	Hg	Sample: 0606113-05
17	Hg	Sample: 0606113-06
18	Hg	Sample: 0606113-07
19	Hg	Sample: 0606113-08
20	Hg	Sample: 0606113-09
21	Hg	Sample: 0606113-10
22	Hg	~~Sample: 0606113-11~~
23	Hg	Sample: BF60915-dup1
24	Hg	Sample: BF60915-ms1
25	Hg	Sample: BF60915-msd1
26	Hg	Sample: BF60915-sd1 x5
27	Hg	~~Sample: BF60915-pds1~~
28	Hg	Sample: 0606113-12
29	Hg	Sample: 0606113-13
30	Hg	Sample: 0606113-14
31	Hg	Sample: 0606113-16
32	Hg	Sample: 0606136-01
33	Hg	Sample: 0606136-02
34	Hg	Sample: 0606136-03
35	Hg	Sample: BF60915-dup2
36	Hg	Sample: BF60915-ms2
37	Hg	Sample: BF60915-msd2
38	Hg	Sample: BF60915-sd2 x5
39	Hg	Sample: BF60915-pds2

dilutions 6/12/06 EEm

Autosampler Loading List

Sample Information File: 061006A.SIF
Methods: Hg_5ppb Shigh

Location	Elements	Solution
0	Hg	Wash Solution
1	Hg	Calib Blank
	Hg	ICCB: 0.0000 µg/L
2	Hg	0.5 ug/L: 0.5 µg/L
3	Hg	1.0 ug/L: 1.0 µg/L
4	Hg	3.0 ug/L: 3.0 µg/L
	Hg	STD 3.0: 3.0000 µg/L
5	Hg	5.0 ug/L: 5.0 µg/L
6	Hg	10.0 ug/L: 10.0 µg/L
7	Hg	ICV: 3.0000 µg/L
40	Hg	Sample: 0606113-11 x10
41	Hg	Sample: BF60915-dup1 x10
42	Hg	Sample: BF60915-ms1 x10
43	Hg	Sample: BF60915-msd1 x10
44	Hg	Sample: BF60915-sd1 x50
45	Hg	Sample: BF60915-pds1 x10

Method Name: Hg_5ppb Shigh
Method Description: SnCl/Hg read
Element: Hg

Date: 06/10/2006
Technique:FI-MHS
Calibration Type:
Hg, Calc. Intercept : Linear
Wavelength: 253.7 nm
Sample Info Name: 061006A.SIF Results Data Set Name: 061006ad

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 06/10/2006
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0204	0.0204	0.0036	12:41:59	Yes
2			0.0191	0.0191	0.0035	12:42:29	Yes
Mean:			0.0197				
SD :			0.0009				
%RSD:			4.5067				

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 06/10/2006
Sample ID: 0.5 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0563	0.0760	0.0146	12:43:54	Yes
2			0.0551	0.0748	0.0146	12:44:23	Yes
Mean:			0.0557				
SD :			0.0008				
%RSD:			1.5118				

[Hg] Standard number 1 applied. [0.50]
Correlation Coefficient: 1.00000 Slope: 0.11135
Intercept : 0.00000

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 06/10/2006
Sample ID: 1.0 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1074	0.1271	0.0248	12:45:48	Yes
2			0.1082	0.1279	0.0250	12:46:16	Yes
Mean:			0.1078				
SD :			0.0005				
%RSD:			0.4960				

[Hg] Standard number 2 applied. [1.00]
Correlation Coefficient: 0.99982 Slope: 0.10778
Intercept : 0.00059

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 06/10/2006
Sample ID: 3.0 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.3110	0.3307	0.0652	12:47:42	Yes
2			0.3059	0.3257	0.0650	12:48:11	Yes

Mean: 0.3084
SD : 0.0036
%RSD: 1.1523
[Hg] Standard number 3 applied. [3.00]
Correlation Coefficient: 0.99982 Slope: 0.10218
Intercept : 0.00302

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 06/10/2006
Sample ID: 5.0 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.5127	0.5324	0.1047	12:49:37	Yes
2			0.5113	0.5310	0.1053	12:50:07	Yes
Mean:			0.5120				
SD :			0.0010				
%RSD:			0.1992				

[Hg] Standard number 4 applied. [5.00]
Correlation Coefficient: 0.99994 Slope: 0.10183
Intercept : 0.00330

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 06/10/2006
Sample ID: 10.0 ug/L

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			1.0298	1.0495	0.2053	12:51:35	Yes
2			1.0292	1.0489	0.2058	12:52:04	Yes
Mean:			1.0295				
SD :			0.0004				
%RSD:							

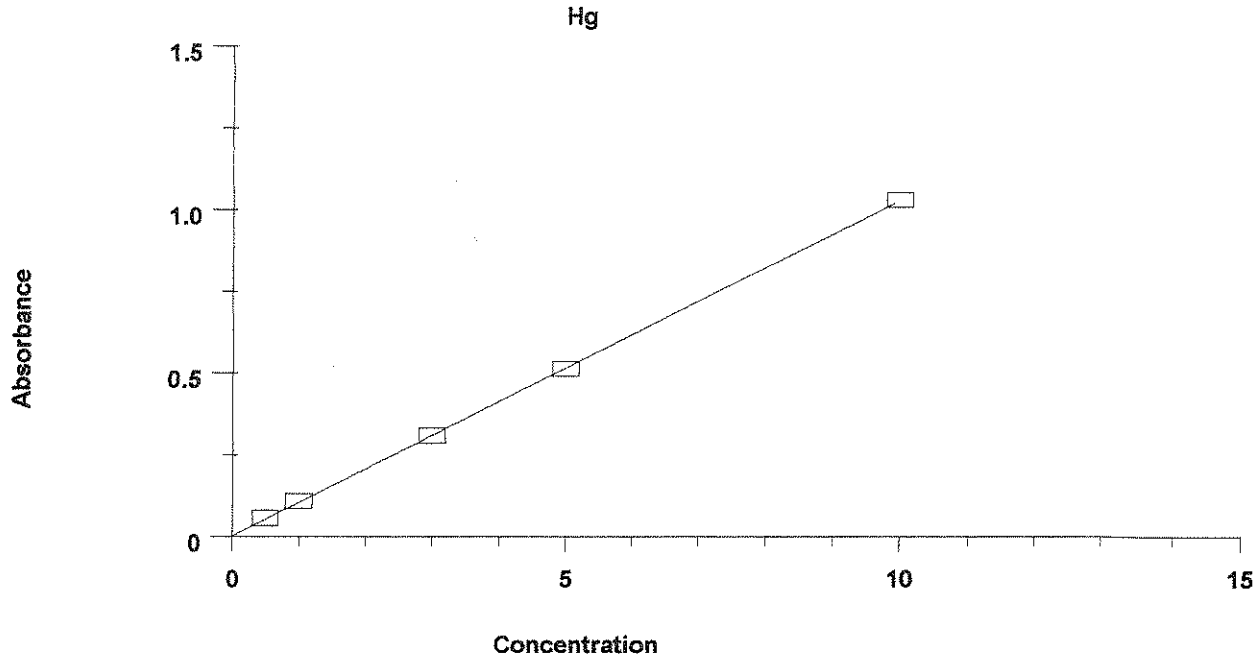
[Hg] Standard number 5 applied. [10.00]
Correlation Coefficient: 0.99998 Slope: 0.10257
Intercept : 0.00221

Calibration data for Hg

Standard ID	Mean Signal (Pk Area)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0197	--	----	----	----
0.5 ug/L	0.0557	0.50	0.52	0.001	1.5
1.0 ug/L	0.1078	1.00	1.03	0.001	0.5
3.0 ug/L	0.3084	3.00	2.99	0.004	1.2
5.0 ug/L	0.5120	5.00	4.97	0.001	0.2
10.0 ug/L	1.0295	10.00	10.02	0.000	----

Correlation Coefficient: 0.99998 Slope: 0.10257 Intercept: 0.0022

Cal std SS 6/10/06



Element: Hg Seq. No.: 7 AS Loc.: 4 Date: 06/10/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.00	3.00	0.3095	0.3292	0.0649	12:53:33	Yes
2	2.98	2.98	0.3081	0.3278	0.0652	12:54:02	Yes
Mean:	2.99	2.99	0.3088				
SD :	0.010	0.010	0.0010				
%RSD:	0.3	0.3	0.3184				

QC value within specified limits.

Element: Hg Seq. No.: 8 AS Loc.: 7 Date: 06/10/2006
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.14	3.14	0.3238	0.3435	0.0672	12:55:28	Yes
2	3.12	3.12	0.3223	0.3420	0.0673	12:55:57	Yes
Mean:	3.13	3.13	0.3230				
SD :	0.010	0.010	0.0011				
%RSD:	0.3	0.3	0.3319				

QC value within specified limits.

Element: Hg Seq. No.: 9 AS Loc.: 1 Date: 06/10/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	0.0011	0.0208	0.0036	12:57:22	Yes
2	-0.02	-0.02	0.0006	0.0204	0.0036	12:57:52	Yes

Mean:	-0.01	-0.01	0.0009
SD :	0.003	0.003	0.0003
%RSD:	24.8	24.8	37.7672

QC value within specified limits.

Element: Hg Seq. No.: 10 AS Loc.: 9 Date: 06/10/2006
Sample ID: BF60915-blk1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.09	-0.09	-0.0070	0.0127	0.0023	12:59:13	Yes
2	-0.11	-0.11	-0.0088	0.0110	0.0021	12:59:42	Yes
Mean:	-0.10	-0.10	-0.0079				
SD :	0.012	0.012	0.0013				
%RSD:	12.5	12.5	16.0074				

ND

Element: Hg Seq. No.: 11 AS Loc.: 10 Date: 06/10/2006
Sample ID: BF60915-bs1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.05	3.05	0.3151	0.3348	0.0655	01:01:05	Yes
2	3.01	3.01	0.3111	0.3308	0.0650	01:01:34	~~Yes~~
Mean:	3.03	3.03	0.3131				
SD :	0.027	0.027	0.0028				
%RSD:	0.9	0.9	0.8993				

101%

Element: Hg Seq. No.: 12 AS Loc.: 11 Date: 06/10/2006
Sample ID: BF60915-bsd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.04	3.04	0.3139	0.3336	0.0654	01:02:57	Yes
2	3.04	3.04	0.3143	0.3340	0.0657	01:03:26	~~Yes~~
Mean:	3.04	3.04	0.3141				
SD :	0.003	0.003	0.0003				
%RSD:							

101%

Element: Hg Seq. No.: 13 AS Loc.: 12 Date: 06/10/2006
Sample ID: BF60915-srm1 x10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.02	3.02	0.3119	0.3316	0.0664	01:04:51	Yes
2	3.00	3.00	0.3100	0.3297	0.0664	01:05:20	Yes
Mean:	3.01	3.01	0.3109				
SD :	0.013	0.013	0.0013				
%RSD:	0.4	0.4	0.4300				

8/10/06
~~3.01(5)~~
3.01(10)(40) / 0.6 = 2.01

Element: Hg Seq. No.: 14 AS Loc.: 13 Date: 06/10/2006
Sample ID: 0606113-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.91	2.91	0.3003	0.3200	0.0635	01:06:45	Yes
2	2.88	2.88	0.2979	0.3176	0.0637	01:07:14	Yes
Mean:	2.89	2.89	0.2991				
SD :	0.017	0.017	0.0017				

%RSD: 0.6 0.6 0.5735

Element: Hg Seq. No.: 15 AS Loc.: 14 Date: 06/10/2006
Sample ID: 0606113-03

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.91	0.91	0.0952	0.1149	0.0227	01:08:40	Yes
2	0.90	0.90	0.0942	0.1140	0.0227	01:09:10	Yes
Mean:	0.90	0.90	0.0947				
SD :	0.007	0.007	0.0007				
%RSD:	0.7	0.7	0.7122				

Element: Hg Seq. No.: 16 AS Loc.: 15 Date: 06/10/2006
Sample ID: 0606113-04

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.83	3.83	0.3954	0.4151	0.0823	01:10:36	Yes
2	3.80	3.80	0.3922	0.4120	0.0824	01:11:06	Yes
Mean:	3.82	3.82	0.3938				
SD :	0.021	0.021	0.0022				
%RSD:	0.6	0.6	0.5593				

Element: Hg Seq. No.: 17 AS Loc.: 16 Date: 06/10/2006
Sample ID: 0606113-05

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.84	0.84	0.0885	0.1083	0.0214	01:12:34	Yes
2	0.83	0.83	0.0872	0.1070	0.0214	01:13:03	Yes
Mean:	0.84	0.84	0.0879				
SD :	0.009	0.009	0.0009				
%RSD:	1.1	1.1	1.0433				

Element: Hg Seq. No.: 18 AS Loc.: 17 Date: 06/10/2006
Sample ID: 0606113-06

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.82	0.82	0.0861	0.1058	0.0208	01:14:28	Yes
2	0.81	0.81	0.0856	0.1054	0.0209	01:14:57	Yes
Mean:	0.82	0.82	0.0859				
SD :	0.003	0.003	0.0003				
%RSD:	0.4	0.4	0.3453				

Element: Hg Seq. No.: 19 AS Loc.: 18 Date: 06/10/2006
Sample ID: 0606113-07

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.10	0.10	0.0121	0.0318	0.0059	01:16:18	Yes
2	0.06	0.06	0.0082	0.0279	0.0056	01:16:48	Yes
Mean:	0.08	0.08	0.0101				
SD :	0.027	0.027	0.0028				
%RSD:	34.9	34.9	27.2665				

Element: Hg Seq. No.: 20 AS Loc.: 4 Date: 06/10/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.99	2.99	0.3091	0.3288	0.0644	01:18:12	Yes
2	2.98	2.98	0.3081	0.3279	0.0646	01:18:41	Yes
Mean:	2.99	2.99	0.3086				
SD :	0.006	0.006	0.0007				
%RSD:	0.2	0.2	0.2160				

QC value within specified limits.

Element: Hg Seq. No.: 21 AS Loc.: 1 Date: 06/10/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0014	0.0183	0.0033	01:20:05	Yes
2	-0.04	-0.04	-0.0018	0.0180	0.0033	01:20:35	Yes
Mean:	-0.04	-0.04	-0.0016				
SD :	0.002	0.002	0.0002				
%RSD:	5.7	5.7	13.6488				

QC value within specified limits.

Element: Hg Seq. No.: 22 AS Loc.: 19 Date: 06/10/2006
Sample ID: 0606113-08

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.18	0.18	0.0204	0.0402	0.0075	01:21:58	Yes
2	0.16	0.16	0.0183	0.0381	0.0074	01:22:27	Yes
Mean:	0.17	0.17	0.0194				
SD :	0.015	0.015	0.0015				
%RSD:	8.7	8.7	7.7168				

Element: Hg Seq. No.: 23 AS Loc.: 20 Date: 06/10/2006
Sample ID: 0606113-09

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	7.88	7.88	0.8103	0.8300	0.1652	01:23:49	Yes
2	7.87	7.87	0.8094	0.8292	0.1656	01:24:18	Yes
Mean:	7.87	7.87	0.8098				
SD :	0.006	0.006	0.0006				
%RSD:							

Element: Hg Seq. No.: 24 AS Loc.: 21 Date: 06/10/2006
Sample ID: 0606113-10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.13	0.13	0.0151	0.0348	0.0065	01:25:42	Yes
2	0.09	0.09	0.0120	0.0317	0.0062	01:26:11	Yes
Mean:	0.11	0.11	0.0135				
SD :	0.022	0.022	0.0022				
%RSD:	19.5	19.5	16.3339				

Element: Hg Seq. No.: 25 AS Loc.: 22 Date: 06/10/2006

Sample ID: 0606113-11

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	12.42	12.42	1.2762	1.2960	0.2562	01:27:35	Yes
Sample absorbance is greater than that of the highest standard.							
2	12.40	12.40	1.2736	1.2933	0.2574	01:28:04	Yes
Sample absorbance is greater than that of the highest standard.							
Mean:	12.41	12.41	1.2749				
SD :	0.018	0.018	0.0019				
%RSD:	0.1	0.1	0.1456				
Sample absorbance is greater than that of the highest standard.							

Element: Hg Seq. No.: 26 AS Loc.: 23 Date: 06/10/2006
Sample ID: BF60915-dup1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	14.88	14.88	1.5283	1.5480	0.3057	01:29:27	Yes
Sample absorbance is greater than that of the highest standard.							
2	14.80	14.80	1.5199	1.5396	0.3054	01:29:57	Yes
Sample absorbance is greater than that of the highest standard.							
Mean:	14.84	14.84	1.5241				
SD :	0.058	0.058	0.0059				
%RSD:	0.4	0.4	0.3898				
Sample absorbance is greater than that of the highest standard.							

Element: Hg Seq. No.: 27 AS Loc.: 24 Date: 06/10/2006
Sample ID: BF60915-ms1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	14.52	14.52	1.4915	1.5112	0.2983	01:31:22	Yes
Sample absorbance is greater than that of the highest standard.							
2	14.42	14.42	1.4808	1.5005	0.2979	01:31:51	Yes
Sample absorbance is greater than that of the highest standard.							
Mean:	14.47	14.47	1.4861				
SD :	0.074	0.074	0.0076				
%RSD:	0.5	0.5	0.5082				
Sample absorbance is greater than that of the highest standard.							

Element: Hg Seq. No.: 28 AS Loc.: 25 Date: 06/10/2006
Sample ID: BF60915-msd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	18.12	18.12	1.8606	1.8803	0.3693	01:33:16	Yes
Sample absorbance is greater than that of the highest standard.							
2	17.98	17.98	1.8469	1.8667	0.3705	01:33:45	Yes
Sample absorbance is greater than that of the highest standard.							
Mean:	18.05	18.05	1.8537				
SD :	0.094	0.094	0.0097				
%RSD:	0.5	0.5	0.5210				
Sample absorbance is greater than that of the highest standard.							

Element: Hg Seq. No.: 29 AS Loc.: 26 Date: 06/10/2006
Sample ID: BF60915-sd1 x5

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

#	µg/L	µg/L	Signal	Area	Height		Stored
1	2.53	2.53	0.2613	0.2811	0.0567	01:35:11	Yes
2	2.53	2.53	0.2619	0.2816	0.0573	01:35:40	Yes
Mean:	2.53	2.53	0.2616				
SD :	0.004	0.004	0.0004				
%RSD:	0.1	0.1	0.1403				

Element: Hg Seq. No.: 30 AS Loc.: 27 Date: 06/10/2006
Sample ID: BF60915-pds1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	15.22	15.22	1.5638	1.5836	0.3149	01:37:06	Yes
Sample absorbance is greater than that of the highest standard.							
2	15.25	15.25	1.5667	1.5865	0.3148	01:37:35	Yes
Sample absorbance is greater than that of the highest standard.							
Mean:	15.24	15.24	1.5653				
SD :	0.020	0.020	0.0020				
%RSD:	0.1	0.1	0.1302				
Sample absorbance is greater than that of the highest standard.							

Element: Hg Seq. No.: 31 AS Loc.: 28 Date: 06/10/2006
Sample ID: 0606113-12

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0040	0.0237	0.0045	01:39:02	Yes
2	0.02	0.02	0.0044	0.0241	0.0045	01:39:32	Yes
Mean:	0.02	0.02	0.0042				
SD :	0.003	0.003	0.0003				
%RSD:	13.8	13.8	6.5612				

Element: Hg Seq. No.: 32 AS Loc.: 4 Date: 06/10/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.96	2.96	0.3053	0.3251	0.0635	01:40:58	Yes
2	2.94	2.94	0.3040	0.3237	0.0639	01:41:27	Yes
Mean:	2.95	2.95	0.3047				
SD :	0.009	0.009	0.0010				
%RSD:	0.3	0.3	0.3198				
QC value within specified limits.							

Element: Hg Seq. No.: 33 AS Loc.: 1 Date: 06/10/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	-0.0010	0.0187	0.0033	01:42:50	Yes
2	-0.03	-0.03	-0.0005	0.0192	0.0034	01:43:19	Yes
Mean:	-0.03	-0.03	-0.0008				
SD :	0.004	0.004	0.0004				
%RSD:	12.7	12.7	49.6159				
QC value within specified limits.							

Element: Hg Seq. No.: 34 AS Loc.: 29 Date: 06/10/2006
Sample ID: 0606113-13

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.04	0.04	0.0059	0.0256	0.0047	01:44:44	Yes
2	0.02	0.02	0.0047	0.0244	0.0045	01:45:13	Yes
Mean:	0.03	0.03	0.0053				
SD :	0.008	0.008	0.0008				
%RSD:	27.1	27.1	15.7988				

Element: Hg Seq. No.: 35 AS Loc.: 30 Date: 06/10/2006
Sample ID: 0606113-14

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	7.60	7.60	0.7816	0.8013	0.1600	01:46:39	Yes
2	7.59	7.59	0.7805	0.8002	0.1597	01:47:09	Yes
Mean:	7.59	7.59	0.7811				
SD :	0.008	0.008	0.0008				
%RSD:	0.1	0.1					

Element: Hg Seq. No.: 36 AS Loc.: 31 Date: 06/10/2006
Sample ID: 0606113-16

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.38	1.38	0.1443	0.1640	0.0324	01:48:36	Yes
2	1.38	1.38	0.1440	0.1637	0.0325	01:49:05	Yes
Mean:	1.38	1.38	0.1441				
SD :	0.002	0.002	0.0002				
%RSD:	0.1	0.1	0.1324				

Element: Hg Seq. No.: 37 AS Loc.: 32 Date: 06/10/2006
Sample ID: 0606136-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.07	-0.07	-0.0049	0.0148	0.0026	01:50:30	Yes
2	-0.07	-0.07	-0.0054	0.0143	0.0026	01:50:59	Yes
Mean:	-0.07	-0.07	-0.0052				
SD :	0.003	0.003	0.0003				
%RSD:	4.4	4.4	6.2238				

Element: Hg Seq. No.: 38 AS Loc.: 33 Date: 06/10/2006
Sample ID: 0606136-02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.06	-0.06	-0.0038	0.0159	0.0029	01:52:20	Yes
2	-0.06	-0.06	-0.0039	0.0159	0.0028	01:52:49	Yes
Mean:	-0.06	-0.06	-0.0038				
SD :	0.000	0.000	0.0000				
%RSD:	0.5	0.5	0.8299				

Element: Hg Seq. No.: 39 AS Loc.: 34 Date: 06/10/2006
Sample ID: 0606136-03

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	0.01	0.01	0.0031	0.0228	0.0043	01:54:10	Yes
2	0.00	0.00	0.0021	0.0218	0.0041	01:54:39	Yes
Mean:	0.00	0.00	0.0026				
SD :	0.007	0.007	0.0007				
%RSD:	182.1	182.1	27.3310				

Element: Hg Seq. No.: 40 AS Loc.: 35 Date: 06/10/2006
Sample ID: BF60915-dup2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0038	0.0235	0.0044	01:56:02	Yes
2	0.01	0.01	0.0028	0.0225	0.0043	01:56:32	Yes
Mean:	0.01	0.01	0.0033				
SD :	0.007	0.007	0.0007				
%RSD:	68.1	68.1	22.1859				

Element: Hg Seq. No.: 41 AS Loc.: 36 Date: 06/10/2006
Sample ID: BF60915-ms2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.42	3.42	0.3532	0.3730	0.0746	01:57:55	Yes
2	3.43	3.43	0.3541	0.3739	0.0748	01:58:24	Yes
Mean:	3.43	3.43	0.3537				
SD :	0.006	0.006	0.0006				
%RSD:	0.2	0.2	0.1807				

Element: Hg Seq. No.: 42 AS Loc.: 37 Date: 06/10/2006
Sample ID: BF60915-msd2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.44	3.44	0.3553	0.3751	0.0744	01:59:47	Yes
2	3.40	3.40	0.3510	0.3708	0.0744	02:00:16	Yes
Mean:	3.42	3.42	0.3532				
SD :	0.030	0.030	0.0030				
%RSD:	0.9	0.9	0.8627				

$\frac{3.43 - 3.42}{3.425} = 0.5$

Element: Hg Seq. No.: 43 AS Loc.: 38 Date: 06/10/2006
Sample ID: BF60915-sd2 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.17	-0.17	-0.0150	0.0048	0.0010	02:01:39	Yes
2	-0.17	-0.17	-0.0153	0.0045	0.0010	02:02:08	Yes
Mean:	-0.17	-0.17	-0.0151				
SD :	0.002	0.002	0.0002				
%RSD:	1.2	1.2	1.3851				

Element: Hg Seq. No.: 44 AS Loc.: 4 Date: 06/10/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.01	3.01	0.3112	0.3309	0.0650	02:03:31	Yes
2	2.99	2.99	0.3092	0.3290	0.0652	02:04:01	Yes
Mean:	3.00	3.00	0.3102				

SD :	0.013	0.013	0.0014
%RSD:	0.4	0.4	0.4448

QC value within specified limits.

Element: Hg Seq. No.: 45 AS Loc.: 1 Date: 06/10/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.07	-0.07	-0.0054	0.0143	0.0026	02:05:23	Yes
2	-0.08	-0.08	-0.0061	0.0136	0.0025	02:05:53	Yes
Mean:	-0.08	-0.08	-0.0058				
SD :	0.005	0.005	0.0005				
%RSD:	5.9	5.9	8.0963				

QC value within specified limits.

Element: Hg Seq. No.: 46 AS Loc.: 39 Date: 06/10/2006
Sample ID: BF60915-pds2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.14	3.14	0.3245	0.3442	0.0715	02:07:15	Yes
2	3.00	3.00	0.3098	0.3295	0.0705	02:07:44	Yes
Mean:	3.07	3.07	0.3171				
SD :	0.101	0.101	0.0104				
%RSD:	3.3	3.3	3.2719				

1027

Element: Hg Seq. No.: 47 AS Loc.: 4 Date: 06/10/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.78	2.78	0.2869	0.3066	0.0637	02:09:08	Yes
2	2.79	2.79	0.2882	0.3079	0.0638	02:09:37	Yes
Mean:	2.78	2.78	0.2875				
SD :	0.009	0.009	0.0009				
%RSD:	0.3	0.3	0.3100				

QC value within specified limits.

Element: Hg Seq. No.: 48 AS Loc.: 1 Date: 06/10/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.08	-0.08	-0.0064	0.0133	0.0026	02:11:01	Yes
2	-0.07	-0.07	-0.0051	0.0146	0.0029	02:11:30	Yes
Mean:	-0.08	-0.08	-0.0058				
SD :	0.009	0.009	0.0009				
%RSD:	11.3	11.3	15.7027				

QC value within specified limits.

Element: Hg Seq. No.: 49 AS Loc.: 4 Date: 06/10/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.06	3.06	0.3166	0.3363	0.0658	02:15:10	Yes
2	3.04	3.04	0.3145	0.3342	0.0655	02:15:39	Yes
Mean:	3.05	3.05	0.3155				
SD :	0.014	0.014	0.0015				
%RSD:	0.5	0.5	0.4683				

QC value within specified limits.

Element: Hg Seq. No.: 50 AS Loc.: 7 Date: 06/10/2006
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.12	3.12	0.3220	0.3418	0.0665	02:17:06	Yes
2	3.04	3.04	0.3140	0.3337	0.0658	02:17:35	Yes
Mean:	3.08	3.08	0.3180				
SD :	0.056	0.056	0.0057				
%RSD:	1.8	1.8	1.7919				

QC value within specified limits.

Element: Hg Seq. No.: 51 AS Loc.: 1 Date: 06/10/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.05	-0.05	-0.0030	0.0167	0.0031	02:19:01	Yes
2	-0.05	-0.05	-0.0031	0.0167	0.0031	02:19:30	Yes
Mean:	-0.05	-0.05	-0.0030				
SD :	0.001	0.001	0.0001				
%RSD:	1.2	1.2	2.1193				

QC value within specified limits.

Element: Hg Seq. No.: 52 AS Loc.: 40 Date: 06/10/2006
Sample ID: 0606113-11 x10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.17	1.17	0.1221	0.1418	0.0287	02:20:54	Yes
2	1.17	1.17	0.1226	0.1423	0.0289	02:21:23	Yes
Mean:	1.17	1.17	0.1223				
SD :	0.004	0.004	0.0004				
%RSD:	0.3	0.3	0.3102				

Element: Hg Seq. No.: 53 AS Loc.: 41 Date: 06/10/2006
Sample ID: BF60915-dup1 x10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.49	1.49	0.1547	0.1745	0.0355	02:22:47	Yes
2	1.49	1.49	0.1553	0.1750	0.0358	02:23:17	Yes
Mean:	1.49	1.49	0.1550				
SD :	0.004	0.004	0.0004				
%RSD:	0.3	0.3	0.2516				

$\frac{1.49 - 1.17}{1.33} = 24\%$

Element: Hg Seq. No.: 54 AS Loc.: 42 Date: 06/10/2006

Sample ID: BF60915-ms1 x10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.45	1.45	0.1507	0.1705	0.0343	02:24:41	Yes
2	1.44	1.44	0.1504	0.1701	0.0344	02:25:11	Yes
Mean:	1.45	1.45	0.1506				
SD :	0.002	0.002	0.0002				
%RSD:	0.2	0.2	0.1621				

$\frac{1.45 - 1.17}{0.3} = 93\%$

Element: Hg Seq. No.: 55 AS Loc.: 43 Date: 06/10/2006
Sample ID: BF60915-msd1 x10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	1.83	1.83	0.1901	0.2099	0.0421	02:26:36	Yes
2	1.82	1.82	0.1892	0.2089	0.0425	02:27:05	Yes
Mean:	1.83	1.83	0.1897				
SD :	0.007	0.007	0.0007				
%RSD:	0.4	0.4	0.3616				

$\frac{1.83 - 1.45}{1.64} = 23\%$

Element: Hg Seq. No.: 56 AS Loc.: 44 Date: 06/10/2006
Sample ID: BF60915-sd1 x50

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.14	0.14	0.0167	0.0365	0.0073	02:28:32	Yes
2	0.09	0.09	0.0110	0.0308	0.0064	02:29:01	Yes
Mean:	0.11	0.11	0.0139				
SD :	0.039	0.039	0.0040				
%RSD:	34.5	34.5	29.0024				

ND

Element: Hg Seq. No.: 57 AS Loc.: 45 Date: 06/10/2006
Sample ID: BF60915-pds1 x10

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	4.60	4.60	0.4740	0.4937	0.0993	02:30:29	Yes
2	4.66	4.66	0.4799	0.4996	0.1003	02:30:57	Yes
Mean:	4.63	4.63	0.4769				
SD :	0.041	0.041	0.0042				
%RSD:	0.9	0.9	0.8726				

$\frac{4.63 - 1.17}{3} = 115\%$

Element: Hg Seq. No.: 58 AS Loc.: 4 Date: 06/10/2006
Sample ID: STD 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.10	3.10	0.3197	0.3394	0.0658	02:32:22	Yes
2	3.07	3.07	0.3166	0.3363	0.0661	02:32:52	Yes
Mean:	3.08	3.08	0.3182				
SD :	0.021	0.021	0.0022				
%RSD:	0.7	0.7	0.6903				

QC value within specified limits.

Element: Hg Seq. No.: 59 AS Loc.: 1 Date: 06/10/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.08	-0.08	-0.0058	0.0139	0.0026	02:34:15	Yes
2	-0.08	-0.08	-0.0057	0.0140	0.0026	02:34:45	Yes
Mean:	-0.08	-0.08	-0.0058				
SD :	0.000	0.000	0.0001				
%RSD:	0.6	0.6	0.8778				

QC value within specified limits.

ANALYSIS SEQUENCE

BPG0190

Instrument: HG1

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0190-CAL1	QC		1		6F10020		
BPG0190-CAL2	QC		2		6F10021		
BPG0190-CAL3	QC		3		6F10022		
BPG0190-CAL4	QC		4		6F10023		
BPG0190-CAL5	QC		5		6F10024		
BPG0190-CAL6	QC		6		6F10025		
BPG0190-ICV1	QC		7		6F10024		
BPG0190-SCV1	QC		8		6F10026		
BPG0190-ICB1	QC		9				
BF61005-BLK1	QC		10				
BF61005-BS1	QC		11				
BPG0190-CCB1	QC		12				
BPG0190-CCV1	QC		13		6F10024		
BF61005-BSD1	QC		14				
0606113-18	Hg: ppm Mercury 7470	A	15				MACTEC Engineering & Consulting, In
BPG0190-CCB2	QC		16				
BPG0190-CCV2	QC		17		6F10024		
BPG0190-CCV3	QC		18		6F10024		
BPG0190-CCV4	QC		19		6F10024		
BPG0190-CCV5	QC		20		6F10024		
BPG0190-CCB3	QC		21				
BPG0190-CCB4	QC		22				
BPG0190-CCB5	QC		23				

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
Data Review Check List for Mercury

-18

Data Review Check List for Mercury

Project Number(s): 06147, 107, 113, 122, 132, 142, 143, 146, 136 **Run Date:** 6/10/06

Batch Number (s): 061006B

SOP Number: 30_2451 or 30_7471A

Review Item	Yes (X)	No (X)	N/A (X)
1. Does the daily standard curve consist of a Calibration Blank and the required 5 Calibration Standards?	X		
2. Is the CCV standard analyzed immediately after the curve? Does this CCV meet QC limits (± 5% for 245.1 and ±10% for 7470/1A.)	X		
3. Is the ICV from a second source and is its percent recovery within QC limits (± 10%)?	X		
4. Is the method blank run at the required frequency (1 per batch) and not exceed the MRL?	X		
5. Is the LCS from a source separate from the calibration standards and is its percent recovery within QC limits (± 15% for 245.1 and ±20% for 7470/1A)?	X		
6. Are Matrix Spikes run at the required frequency (1 per ten samples or per analytical batch)? Is the percent recovery for Matrix Spikes within 75-125% (***80-120% for USACE/Navy***)?	X		
7. Are Duplicates run the required frequency (1 per ten samples or per analytical batch)? Is the relative percent difference within QC limits (≤ 20% for aqueous and <35% for soil/sediments (≤20% for USACE))?	X		
8. Is the CCV standard (STD3) also analyzed after every tenth sample and at the end of the sample run? Does this CCV meet QC limits (± 10%)	X		
9. Are all the samples with concentrations greater than the highest standard used for initial calibration reprocessed and reanalyzed?			X
10. Has the serial dilution been analyzed at the required frequency (once per analytical batch) and are results within criterion (± 10%RPD)?	X		
11. Has the post dilution spike been analyzed at the required frequency (once per analytical batch) and are results within criterion (85-115%)?	X		
12. Are all sample holding times met?	X		
13. Are all non-conformances included and noted?	X		
14. Are all sample IDs and units checked for transcription errors?	X		

Comments on any "No" response:

Analyst: _____ Date: 6/10/06

Second Level Review: Erin E Minot Date: 6/12/06

Control Number: 30.0012-0602A (R. 1 8/2000) Page _____

Autosampler Loading List

Sample Information File: 061006B.SIF
Methods: Hg_5ppb Aq

Location	Elements	Solution
0	Hg	Wash Solution
1	Hg	Calib Blank
	Hg	ICCB: 0.0000 µg/L
2	Hg	Standard 0.25: 0.25 µg/L
3	Hg	Standard 0.5: 0.5 µg/L
4	Hg	Standard 1.0: 1.0 µg/L
5	Hg	Standard 3.0: 3.0 µg/L
	Hg	Standard 3.0: 3.0000 µg/L
	Hg	CCV: 3.0000 µg/L
6	Hg	Standard 5.0: 5.0 µg/L
7	Hg	ICV: 3.0000 µg/L
9	Hg	Sample: BF61005-blk1
10	Hg	Sample: BF61005-bs1
11	Hg	Sample: BF61005-bsd1
12	Hg	Sample: 0606147-01tclp
13	Hg	Sample: 0606147-02tclp
14	Hg	Sample: 0606147-03tclp
15	Hg	Sample: 0606107-01
16	Hg	Sample: 0606107-02
17	Hg	Sample: 0606113-18
18	Hg	Sample: 0606122-01
19	Hg	Sample: 0606132-01
20	Hg	Sample: 0606142-01
21	Hg	Sample: 0606143-01
22	Hg	Sample: BF61005-dup1
23	Hg	Sample: BF61005-ms1
24	Hg	Sample: BF61005-msd1
25	Hg	Sample: 0606143-02
26	Hg	Sample: BF61005-dup2
27	Hg	Sample: BF61005-ms2
28	Hg	Sample: BF61005-msd2
29	Hg	Sample: BF61005-sd2 x5
30	Hg	Sample: BF61005-pds2
31	Hg	Sample: BF61005-sd1 x5
32	Hg	Sample: BF61005-pds1
33	Hg	Sample: BF61006-blk1
34	Hg	Sample: BF61006-bs1
35	Hg	Sample: BF61006-bsd1
36	Hg	Sample: 0606146-01tclp
37	Hg	Sample: 0606136-04tclp
38	Hg	Sample: 0606136-05tclp
39	Hg	Sample: 0606136-06tclp
40	Hg	Sample: BF61006-dup1
41	Hg	Sample: BF61006-ms1
42	Hg	Sample: BF61006-msd1
43	Hg	Sample: BF61006-sd1 x5
44	Hg	Sample: BF61006-pds1

Method Name: Hg_5ppb Aq
Method Description: Hg_5ppb Aq
Element: Hg

Date: 06/10/2006
Technique:FI-MHS
Calibration Type:
Hg, Zero Intercept: Linear
Wavelength: 253.7 nm
Sample Info Name: 061006B.SIF Results Data Set Name: 061006bd

Element: Hg Seq. No.: 1 AS Loc.: 1 Date: 06/10/2006
Sample ID: Calib Blank

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0043	0.0257	0.0043	03:49:50	No
2			0.0038	0.0195	0.0038	03:50:19	No
Mean:			0.0041				
SD :			0.0003				
%RSD:			8.2720				

Auto-zero performed.

Element: Hg Seq. No.: 2 AS Loc.: 2 Date: 06/10/2006
Sample ID: Standard 0.25

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0070	0.0588	0.0111	03:51:43	No
2			0.0070	0.0582	0.0111	03:52:12	No
Mean:			0.0070				
SD :			0.0000				
%RSD:							

[Hg] Standard number 1 applied. [0.25]
Correlation Coefficient: 1.00000 Slope: 0.02813

Element: Hg Seq. No.: 3 AS Loc.: 3 Date: 06/10/2006
Sample ID: Standard 0.5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0127	0.0858	0.0167	03:53:36	No
2			0.0127	0.0856	0.0167	03:54:05	No
Mean:			0.0127				
SD :			0.0000				
%RSD:							

[Hg] Standard number 2 applied. [0.50]
Correlation Coefficient: 0.99052 Slope: 0.02593

Element: Hg Seq. No.: 4 AS Loc.: 4 Date: 06/10/2006
Sample ID: Standard 1.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0248	0.1453	0.0288	03:55:30	No
2			0.0247	0.1435	0.0288	03:55:59	No
Mean:			0.0247				
SD :			0.0001				

%RSD: 0.2585
[Hg] Standard number 3 applied. [1.00]
Correlation Coefficient: 0.99807 Slope: 0.02503

Element: Hg Seq. No.: 5 AS Loc.: 5 Date: 06/10/2006
Sample ID: Standard 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.0762	0.3968	0.0802	03:57:25	No
2			0.0753	0.3925	0.0793	03:57:54	No
Mean:			0.0757				
SD :			0.0007				
%RSD:			0.8602				

[Hg] Standard number 4 applied. [3.00]
Correlation Coefficient: 0.99987 Slope: 0.02521

Element: Hg Seq. No.: 6 AS Loc.: 6 Date: 06/10/2006
Sample ID: Standard 5.0

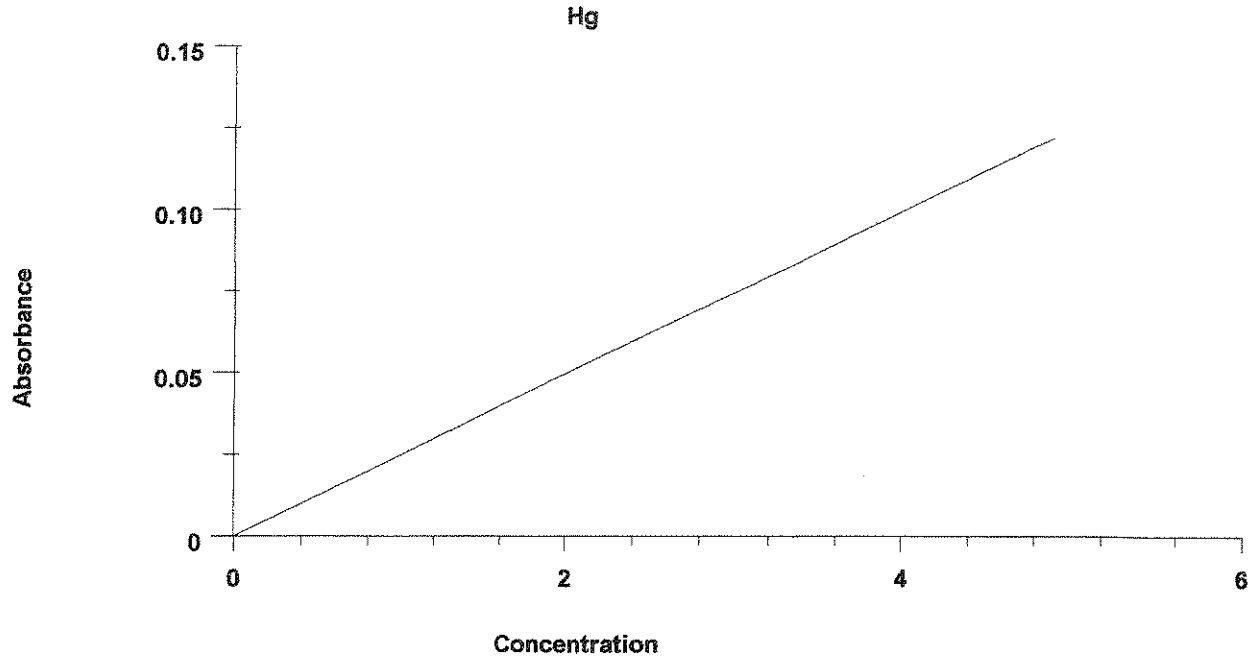
Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1			0.1237	0.6285	0.1278	03:59:22	No
2			0.1226	0.6234	0.1267	03:59:52	No
Mean:			0.1232				
SD :			0.0008				
%RSD:			0.6371				

[Hg] Standard number 5 applied. [5.00]
Correlation Coefficient: 0.99984 Slope: 0.02481

Calibration data for Hg

Standard ID	Mean Signal (Pk Height)	Entered Concentration (µg/L)	Calculated Concentration (µg/L)	Standard Deviation	%RSD
Calib Blank	0.0041	--	----	----	----
Standard 0.25	0.0070	0.25	0.28	0.000	----
Standard 0.5	0.0127	0.50	0.51	0.000	----
Standard 1.0	0.0247	1.00	1.00	0.000	0.3
Standard 3.0	0.0757	3.00	3.05	0.001	0.9
Standard 5.0	0.1232	5.00	4.97	0.001	0.6
Correlation Coefficient:	0.99984	Slope:	0.02481	----	

Cal Good
JP 6/10/06



Element: Hg Seq. No.: 7 AS Loc.: 5 Date: 06/10/2006
Sample ID: Standard 3.0

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.03	3.03	0.0752	0.3949	0.0793	04:01:19	No
2	3.02	3.02	0.0749	0.3927	0.0790	04:01:48	No
Mean:	3.03	3.03	0.0751				
SD :	0.007	0.007	0.0002				
%RSD:	0.2	0.2	0.2444				

QC value within specified limits.

Element: Hg Seq. No.: 8 AS Loc.: 7 Date: 06/10/2006
Sample ID: ICV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.15	3.15	0.0782	0.3963	0.0822	04:03:15	No
2	3.08	3.08	0.0764	0.3933	0.0805	04:03:45	No
Mean:	3.12	3.12	0.0773				
SD :	0.050	0.050	0.0012				
%RSD:	1.6	1.6	1.6084				

QC value within specified limits.

Element: Hg Seq. No.: 9 AS Loc.: 1 Date: 06/10/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0000	0.0228	0.0040	04:05:09	No
2	0.00	0.00	-0.0001	0.0217	0.0039	04:05:38	No

Mean:	0.00	0.00	-0.0001
SD :	0.002	0.002	0.0001
%RSD:	68.3	68.3	68.2661

QC value within specified limits.

Element: Hg Seq. No.: 10 AS Loc.: 9 Date: 06/10/2006
Sample ID: BF61005-blk1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	-0.0007	0.0190	0.0034	04:07:01	No
2	-0.03	-0.03	-0.0008	0.0175	0.0033	04:07:30	No
Mean:	-0.03	-0.03	-0.0007				
SD :	0.004	0.004	0.0001				
%RSD:	12.7	12.7	12.6510				

ND

Element: Hg Seq. No.: 11 AS Loc.: 10 Date: 06/10/2006
Sample ID: BF61005-bs1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.85	2.85	0.0707	0.3755	0.0748	04:08:53	No
2	2.83	2.83	0.0703	0.3714	0.0744	04:09:23	No
Mean:	2.84	2.84	0.0705				
SD :	0.012	0.012	0.0003				
%RSD:	0.4	0.4	0.4133				

95%

Element: Hg Seq. No.: 12 AS Loc.: 11 Date: 06/10/2006
Sample ID: BF61005-bsd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.78	2.78	0.0690	0.3667	0.0731	04:10:46	No
2	2.78	2.78	0.0689	0.3651	0.0730	04:11:15	No
Mean:	2.78	2.78	0.0690				
SD :	0.003	0.003	0.0001				
%RSD:	0.1	0.1	0.1146				

93%

Element: Hg Seq. No.: 13 AS Loc.: 12 Date: 06/10/2006
Sample ID: 0606147-01tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0005	0.0198	0.0036	04:12:40	No
2	-0.02	-0.02	-0.0006	0.0180	0.0035	04:13:10	No
Mean:	-0.02	-0.02	-0.0005				
SD :	0.005	0.005	0.0001				
%RSD:	21.1	21.1	21.1236				

ND

Element: Hg Seq. No.: 14 AS Loc.: 13 Date: 06/10/2006
Sample ID: 0606147-02tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0001	0.0215	0.0039	04:14:36	No
2	0.00	0.00	-0.0001	0.0220	0.0040	04:15:05	No
Mean:	-0.01	-0.01	-0.0001				
SD :	0.001	0.001	0.0000				

ND

%RSD:	28.4	28.4	28.4449

Element: Hg Seq. No.: 15 AS Loc.: 14 Date: 06/10/2006
Sample ID: 0606147-03tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0004	0.0202	0.0037	04:16:32	No
2	-0.02	-0.02	-0.0005	0.0187	0.0036	04:17:01	No
Mean:	-0.02	-0.02	-0.0004				
SD :	0.003	0.003	0.0001				
%RSD:	17.7	17.7	17.7125				

Element: Hg Seq. No.: 16 AS Loc.: 15 Date: 06/10/2006
Sample ID: 0606107-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0004	0.0201	0.0036	04:18:28	No
2	-0.02	-0.02	-0.0005	0.0191	0.0036	04:18:57	No
Mean:	-0.02	-0.02	-0.0005				
SD :	0.002	0.002	0.0001				
%RSD:	11.1	11.1	11.0920				

Element: Hg Seq. No.: 17 AS Loc.: 16 Date: 06/10/2006
Sample ID: 0606107-02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	-0.0001	0.0236	0.0040	04:20:26	No
2	-0.01	-0.01	-0.0003	0.0215	0.0038	04:20:56	No
Mean:	-0.01	-0.01	-0.0002				
SD :	0.005	0.005	0.0001				
%RSD:	71.7	71.7	71.7361				

Element: Hg Seq. No.: 18 AS Loc.: 17 Date: 06/10/2006
Sample ID: 0606113-18

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0005	0.0194	0.0036	04:22:21	No
2	-0.02	-0.02	-0.0006	0.0189	0.0035	04:22:50	No
Mean:	-0.02	-0.02	-0.0005				
SD :	0.002	0.002	0.0001				
%RSD:	10.1	10.1	10.1483				

Element: Hg Seq. No.: 19 AS Loc.: 18 Date: 06/10/2006
Sample ID: 0606122-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0215	0.0037	04:24:10	No
2	-0.02	-0.02	-0.0005	0.0196	0.0036	04:24:40	No
Mean:	-0.02	-0.02	-0.0004				
SD :	0.004	0.004	0.0001				
%RSD:	24.9	24.9	24.9305				

Element: Hg Seq. No.: 20 AS Loc.: 5 Date: 06/10/2006
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	3.00	3.00	0.0744	0.3924	0.0784	04:26:04	No
2	3.03	3.03	0.0751	0.3922	0.0791	04:26:33	No
Mean:	3.01	3.01	0.0747				
SD :	0.020	0.020	0.0005				
%RSD:	0.7	0.7	0.6586				

QC value within specified limits.

Element: Hg Seq. No.: 21 AS Loc.: 1 Date: 06/10/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0001	0.0236	0.0042	04:27:57	No
2	0.00	0.00	0.0000	0.0222	0.0040	04:28:26	No
Mean:	0.00	0.00	0.0000				
SD :	0.004	0.004	0.0001				
%RSD:	214.2	214.2	214.1893				

QC value within specified limits.

Element: Hg Seq. No.: 22 AS Loc.: 19 Date: 06/10/2006
Sample ID: 0606132-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0002	0.0217	0.0039	04:29:50	No
2	-0.01	-0.01	-0.0002	0.0216	0.0038	04:30:20	No
Mean:	-0.01	-0.01	-0.0002				
SD :	0.001	0.001	0.0000				
%RSD:	6.7	6.7	6.7261				

Element: Hg Seq. No.: 23 AS Loc.: 20 Date: 06/10/2006
Sample ID: 0606142-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.03	-0.03	-0.0007	0.0185	0.0034	04:31:43	No
2	-0.03	-0.03	-0.0007	0.0177	0.0034	04:32:12	No
Mean:	-0.03	-0.03	-0.0007				
SD :	0.001	0.001	0.0000				
%RSD:	2.3	2.3	2.2938				

Element: Hg Seq. No.: 24 AS Loc.: 21 Date: 06/10/2006
Sample ID: 0606143-01

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.02	-0.02	-0.0005	0.0199	0.0036	04:33:34	No
2	-0.02	-0.02	-0.0006	0.0188	0.0035	04:34:03	No
Mean:	-0.02	-0.02	-0.0005				
SD :	0.003	0.003	0.0001				
%RSD:	14.1	14.1	14.1085				

Element: Hg Seq. No.: 25 AS Loc.: 22 Date: 06/10/2006

Sample ID: BF61005-dup1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0010	0.0163	0.0031	04:35:27	No
2	-0.04	-0.04	-0.0010	0.0159	0.0031	04:35:57	No
Mean:	-0.04	-0.04	-0.0010				
SD :	0.000	0.000	0.0000				
%RSD:	0.4	0.4	0.4478				

ND

Element: Hg Seq. No.: 26 AS Loc.: 23 Date: 06/10/2006
Sample ID: BF61005-ms1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.84	2.84	0.0705	0.3591	0.0745	04:37:21	No
2	2.78	2.78	0.0690	0.3550	0.0731	04:37:50	No
Mean:	2.81	2.81	0.0697				
SD :	0.041	0.041	0.0010				
%RSD:	1.5	1.5	1.4642				

94%

Element: Hg Seq. No.: 27 AS Loc.: 24 Date: 06/10/2006
Sample ID: BF61005-msd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.72	2.72	0.0675	0.3535	0.0716	04:39:15	No
2	2.82	2.82	0.0700	0.3582	0.0741	04:39:44	No
Mean:	2.77	2.77	0.0688				
SD :	0.072	0.072	0.0018				
%RSD:	2.6	2.6	2.5998				

92%

Element: Hg Seq. No.: 28 AS Loc.: 25 Date: 06/10/2006
Sample ID: 0606143-02

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.00	0.00	0.0001	0.0232	0.0041	04:41:09	No
2	-0.06	-0.06	-0.0014	0.0140	0.0027	04:41:38	No
Mean:	-0.03	-0.03	-0.0007				
SD :	0.042	0.042	0.0010				
%RSD:	156.4	156.4	156.4151				

ND

Element: Hg Seq. No.: 29 AS Loc.: 26 Date: 06/10/2006
Sample ID: BF61005-dup2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.06	-0.06	-0.0014	0.0138	0.0027	04:43:02	No
2	-0.06	-0.06	-0.0014	0.0139	0.0026	04:43:32	No
Mean:	-0.06	-0.06	-0.0014				
SD :	0.001	0.001	0.0000				
%RSD:	1.2	1.2	1.2267				

ND

Element: Hg Seq. No.: 30 AS Loc.: 27 Date: 06/10/2006
Sample ID: BF61005-ms2

Repl	SampleConc	StndConc	BlnkCorr	Peak	Peak	Time	Peak

2	2.80	2.80	0.0695	0.3596	0.0736	04:45:26	No
Mean:	2.78	2.78	0.0691				
SD :	0.027	0.027	0.0007				
%RSD:	1.0	1.0	0.9569				

935

Element: Hg Seq. No.: 31 AS Loc.: 28 Date: 06/10/2006
Sample ID: BF61005-msd2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.79	2.79	0.0691	0.3566	0.0732	04:46:53	No
2	2.78	2.78	0.0689	0.3530	0.0730	04:47:22	No
Mean:	2.78	2.78	0.0690				
SD :	0.005	0.005	0.0001				
%RSD:	0.2	0.2	0.1859				

935

Element: Hg Seq. No.: 32 AS Loc.: 5 Date: 06/10/2006
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.77	2.77	0.0686	0.3543	0.0727	04:48:49	No
2	2.80	2.80	0.0695	0.3532	0.0735	04:49:19	No
Mean:	2.78	2.78	0.0690				
SD :	0.024	0.024	0.0006				
%RSD:	0.9	0.9	0.8676				

QC value within specified limits.

Element: Hg Seq. No.: 33 AS Loc.: 1 Date: 06/10/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.02	0.02	0.0006	0.0250	0.0046	04:50:44	No
2	-0.04	-0.04	-0.0011	0.0159	0.0030	04:51:13	No
Mean:	-0.01	-0.01	-0.0002				
SD :	0.047	0.047	0.0012				
%RSD:	484.6	484.6	484.6205				

QC value within specified limits.

Element: Hg Seq. No.: 34 AS Loc.: 29 Date: 06/10/2006
Sample ID: BF61005-sd2 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.15	-0.15	-0.0038	-0.0005	0.0003	04:52:37	No
2	-0.14	-0.14	-0.0034	0.0036	0.0007	04:53:07	No
Mean:	-0.14	-0.14	-0.0036				
SD :	0.011	0.011	0.0003				
%RSD:	7.8	7.8	7.8324				

ND

Element: Hg Seq. No.: 35 AS Loc.: 30 Date: 06/10/2006
Sample ID: BF61005-pds2

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored

1	2.81	2.81	0.0696	0.3509	0.0737	04:54:33	No
2	2.83	2.83	0.0702	0.3580	0.0743	04:55:02	No
Mean:	2.82	2.82	0.0699				
SD :	0.017	0.017	0.0004				
%RSD:	0.6	0.6	0.5899				

942

Element: Hg Seq. No.: 36 AS Loc.: 31 Date: 06/10/2006
Sample ID: BF61005-sd1 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.07	-0.07	-0.0018	0.0100	0.0023	04:56:29	No
2	-0.14	-0.14	-0.0035	0.0022	0.0005	04:56:59	No
Mean:	-0.11	-0.11	-0.0027				
SD :	0.049	0.049	0.0012				
%RSD:	45.8	45.8	45.8025				

ND

Element: Hg Seq. No.: 37 AS Loc.: 32 Date: 06/10/2006
Sample ID: BF61005-pds1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.85	2.85	0.0707	0.3572	0.0747	04:58:23	No
2	2.91	2.91	0.0721	0.3665	0.0762	04:58:53	No
Mean:	2.88	2.88	0.0714				
SD :	0.041	0.041	0.0010				
%RSD:	1.4	1.4	1.4327				

96%

Element: Hg Seq. No.: 38 AS Loc.: 33 Date: 06/10/2006
Sample ID: BF61006-blk1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.05	-0.05	-0.0013	0.0140	0.0028	05:00:13	No
2	-0.05	-0.05	-0.0013	0.0146	0.0028	05:00:43	No
Mean:	-0.05	-0.05	-0.0013				
SD :	0.001	0.001	0.0000				
%RSD:	1.4	1.4	1.3898				

ND

Element: Hg Seq. No.: 39 AS Loc.: 34 Date: 06/10/2006
Sample ID: BF61006-bs1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.73	2.73	0.0677	0.3611	0.0718	05:02:04	No
2	2.74	2.74	0.0680	0.3585	0.0721	05:02:32	No
Mean:	2.74	2.74	0.0679				
SD :	0.008	0.008	0.0002				
%RSD:	0.3	0.3	0.3037				

91%

Element: Hg Seq. No.: 40 AS Loc.: 35 Date: 06/10/2006
Sample ID: BF61006-bsd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.87	2.87	0.0711	0.3774	0.0752	05:03:55	No
2	2.87	2.87	0.0713	0.3729	0.0753	05:04:25	No
Mean:	2.87	2.87	0.0712				

96%

SD :	0.004	0.004	0.0001
%RSD:	0.1	0.1	0.1488

Element: Hg Seq. No.: 41 AS Loc.: 36 Date: 06/10/2006
Sample ID: 0606146-01tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	0.19	0.19	0.0047	0.0459	0.0087	05:05:48	No
2	0.19	0.19	0.0046	0.0435	0.0087	05:06:18	No
Mean:	0.19	0.19	0.0046				
SD :	0.001	0.001	0.0000				
%RSD:	0.8	0.8	0.7754				

Element: Hg Seq. No.: 42 AS Loc.: 37 Date: 06/10/2006
Sample ID: 0606136-04tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0011	0.0157	0.0030	05:07:41	No
2	-0.04	-0.04	-0.0011	0.0156	0.0030	05:08:10	No
Mean:	-0.04	-0.04	-0.0011				
SD :	0.001	0.001	0.0000				
%RSD:	1.3	1.3	1.3417				

Element: Hg Seq. No.: 43 AS Loc.: 38 Date: 06/10/2006
Sample ID: 0606136-05tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0010	0.0161	0.0031	05:09:33	No
2	-0.04	-0.04	-0.0010	0.0167	0.0031	05:10:03	No
Mean:	-0.04	-0.04	-0.0010				
SD :	0.000	0.000	0.0000				
%RSD:	0.5	0.5	0.4526				

Element: Hg Seq. No.: 44 AS Loc.: 5 Date: 06/10/2006
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.97	2.97	0.0738	0.3851	0.0779	05:11:28	No
2	2.96	2.96	0.0733	0.3860	0.0774	05:11:57	No
Mean:	2.97	2.97	0.0736				
SD :	0.013	0.013	0.0003				
%RSD:	0.4	0.4	0.4350				

QC value within specified limits.

Element: Hg Seq. No.: 45 AS Loc.: 1 Date: 06/10/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0207	0.0037	05:13:21	No
2	-0.02	-0.02	-0.0004	0.0194	0.0037	05:13:51	No
Mean:	-0.01	-0.01	-0.0004				
SD :	0.002	0.002	0.0000				
%RSD:	12.0	12.0	11.9650				

QC value within specified limits.

Element: Hg Seq. No.: 46 AS Loc.: 39 Date: 06/10/2006
Sample ID: 0606136-06tclp

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0010	0.0180	0.0031	05:15:14	No
2	-0.05	-0.05	-0.0013	0.0137	0.0028	05:15:43	No
Mean:	-0.05	-0.05	-0.0011				
SD :	0.009	0.009	0.0002				
%RSD:	20.5	20.5	20.4565				

Element: Hg Seq. No.: 47 AS Loc.: 40 Date: 06/10/2006
Sample ID: BF61006-dup1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.04	-0.04	-0.0010	0.0166	0.0031	05:17:07	No
2	-0.04	-0.04	-0.0010	0.0158	0.0030	05:17:36	No
Mean:	-0.04	-0.04	-0.0010				
SD :	0.002	0.002	0.0001				
%RSD:	5.5	5.5	5.5293				

Element: Hg Seq. No.: 48 AS Loc.: 41 Date: 06/10/2006
Sample ID: BF61006-ms1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.84	2.84	0.0704	0.3718	0.0744	05:19:01	No
2	2.82	2.82	0.0700	0.3704	0.0741	05:19:31	No
Mean:	2.83	2.83	0.0702				
SD :	0.009	0.009	0.0002				
%RSD:	0.3	0.3	0.3228				

Element: Hg Seq. No.: 49 AS Loc.: 42 Date: 06/10/2006
Sample ID: BF61006-msd1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.71	2.71	0.0671	0.3607	0.0712	05:20:55	No
2	2.72	2.72	0.0674	0.3580	0.0715	05:21:24	No
Mean:	2.71	2.71	0.0673				
SD :	0.008	0.008	0.0002				
%RSD:	0.3	0.3	0.3035				

Element: Hg Seq. No.: 50 AS Loc.: 43 Date: 06/10/2006
Sample ID: BF61006-sd1 x5

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.13	-0.13	-0.0033	0.0042	0.0008	05:22:50	No
2	-0.13	-0.13	-0.0032	0.0040	0.0008	05:23:19	No
Mean:	-0.13	-0.13	-0.0033				
SD :	0.001	0.001	0.0000				
%RSD:	1.0	1.0	0.9650				

Element: Hg Seq. No.: 51 AS Loc.: 44 Date: 06/10/2006
Sample ID: BF61006-pds1

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.99	2.99	0.0741	0.3911	0.0782	05:24:46	No
2	3.00	3.00	0.0745	0.3878	0.0786	05:25:14	No
Mean:	3.00	3.00	0.0743				
SD :	0.011	0.011	0.0003				
%RSD:	0.4	0.4	0.3521				

100%

Element: Hg Seq. No.: 52 AS Loc.: 5 Date: 06/10/2006
Sample ID: CCV

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	2.91	2.91	0.0722	0.3808	0.0762	05:26:41	No
2	2.91	2.91	0.0721	0.3796	0.0762	05:27:10	No
Mean:	2.91	2.91	0.0721				
SD :	0.000	0.000	0.0000				
%RSD:							

QC value within specified limits.

Element: Hg Seq. No.: 53 AS Loc.: 1 Date: 06/10/2006
Sample ID: ICCB

Repl #	SampleConc µg/L	StndConc µg/L	BlnkCorr Signal	Peak Area	Peak Height	Time	Peak Stored
1	-0.01	-0.01	-0.0003	0.0208	0.0038	05:28:34	No
2	-0.02	-0.02	-0.0004	0.0197	0.0037	05:29:04	No
Mean:	-0.01	-0.01	-0.0003				
SD :	0.002	0.002	0.0001				
%RSD:	17.4	17.4	17.3715				

QC value within specified limits.

Metals
Logbooks

ESS LABORATORY
METALS PREP LOGBOOK

ANALYST: KAB
DATE: 6/9/06
TIME: 12:30
Batch ID: BF6091M

HNO_3 Reagent - AR# : 060501B
1:1 HCl Reagent- WR#: 060530F
1:1 HNO_3 Reagent- WR#: 060530E
H_2O_2 Reagent- AR#: 060331F

Hot Plate	Temp (°C)
HB#2	95

Sample ID	matrix	pH	Initial wgt/vol	Final wgt/vol	QC ID/Lot #	QC wgt/vol	Method	Hot Plate Number	Comments
BF6091M-BLK	S	"	"	100ml	"	"	3050	HB#	
-BS1					BE04037	0.5ml			
-BS2			"		BE04037	0.5ml			
-SM1			1.0g		BA11056	"			
06113-01			1.76g		"				
-03			1.93g						
-04			1.75g						
-05			1.79g						
-06			1.79g						
-07			1.75g						
-08			1.78g						
-09			1.83g						
-10			1.77g						
-11			1.86g						
BF6091M-DUP			1.83g		"	"			
-MS1			1.82g		BE04037	0.5ml			
06113-12			1.78g		"	"			
-13	S	"	1.75g	100ml	"	"	3050	HB#	

CONTROL# 30.0014-0603A Page_____

MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE

ESS LABORATORY
METALS PREP LOGBOOK

ANALYST: KAB
DATE: 6/19/14
TIME: 12:30
Batch ID: BF 609/7

HNO_3 Reagent - AR# : 060501B
1:1 HCl Reagent- WR#: 0605306
1:1 HNO_3 Reagent- WR#: 0605306
H_2O_2 Reagent- AR#: 060501F

Hot Plate	Temp (°C)
HB# 3	95

Sample ID	matrix	pH	Initial wgt/vol	Final wgt/vol	QC ID/Lot #	QC wgt/vol	Method	Hot Plate Number	Comments
96113-17	S	"	1.81g	100ml	"	"	3050	HB#	
-16			1.76g						
96136-01			1.80g						
-02			1.77g						
-03			1.77g						
BF60917-DUP3			1.82g		"	"			
-MS3	S	"	1.75g	100ml	KAB 6/19/14 ~~LB~~ LE 04037	0.5ml	3050	HB#	

CONTROL# 30.0014-0603A Page_____

MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE

ESS Laboratory

Mercury Soils Prep Logbook

Batch ID: BF60915 **Reagent IDs:** Cal std ID*: 6F06019

Analyst: KAB Aqua Regia WR060609A NaCl-NH_2OH*HCl WR060503B

Date: 6/9/06 $KMnO_4$ WR060517 6 ICV std ID**: 6F06030

Sample ID	Wgt (g)	Quality Control ID/Lot #	Spike wt/vol	COMMENTS	Final Vol (ml)	Bath #	Temp. (°C)	Time in	Time out
BF60915-BLK1	~	~	~		40	HB#3	95	1300	1330
-BS1		6F06030	0.12						
-BSD1	~	6F06030	0.12						
-SRM1	0.623	6A11056	•						
06113-01	0.665	~	•						
-03	0.603								
-04	0.694								
-05	0.603								
-06	0.643								
-07	0.635								
-08	0.665								
-09	0.625								
-10	0.623								
-11	0.665								
BF60915-DUP1	0.603	~	~						
-MS1	0.655	6F06030	0.12						
-MSD1	0.625	6F06030	0.12						
06113-12	0.643	~	~						
-13	0.685								
-14	0.645								
-16	0.625								
06136-01	0.665								
-02	0.62								
-03	0.61								
BF60914-DUP	0.603	~	~		40	HB#3	95	1300	1330

* Calibration standards are prepared daily at 0.0, 0.5, 1.0, 3.0, and 5.0 ppb. See SOP for preparation instructions.

**ICV is prepared daily at a concentration of 2.0 ppb. See SOP for preparation instructions.

CONTROL# 30.0011-0601A

ESS Laboratory

Mercury Soils Prep Logbook

Batch ID: BF060915 **Reagent IDs:** **Cal std ID*:** 6F060919

Analyst: KAS Aqua Regia WR060899A $NaCl\text{-}NH_2OH^*HCl$ WR060903B

Date: 6/9/06 $KMnO_4$ WR060517E **ICV std ID**:** 6F060920

Sample ID	Wgt (g)	Quality Control ID/Lot #	Spike wt/vol	COMMENTS	Final Vol (ml)	Bath #	Temp. (°C)	Time in	Time out
BF060915-MS1	0.6	6F06020	0.2		40	#3	95	13:00	13:30
-MSD1	0.6	6F06020	0.2		40	#3	95	13:00	13:30

* Calibration standards are prepared daily at 0.0, 0.5, 1.0, 3.0, and 5.0 ppb. See SOP for preparation instructions.

**ICV is prepared daily at a concentration of 2.0 ppb. See SOP for preparation instructions.

CONTROL# 30.0011-0601A

ESS LABORATORY
METALS PREP LOGBOOK

ANALYST:

DATE: 6/9/06

TIME: 0845

Batch ID: BF060904

HNO_3 Reagent - AR# : 060501B

1:1 HCl Reagent- WR#: 060530F

1:1 HNO_3 Reagent- WR#: NA

H_2O_2 Reagent- AR#: NA

Hot Plate	Temp (°C)
HB#1	95°
U	
A	

Sample ID	matrix	pH	Initial wgt/vol	Final wgt/vol	QC ID/Lot #	QC wgt/vol	Method	Hot Plate Number	Comments
BF060904-BLK1	AQ	12	50	50	NA	NA	3005	HB#1	
-BS1		12			6E04037	0.25			
-BSD1		12			6E04037	0.25			
-BS2		12			6F09017	2.0			
-BSD2		12			6F09017	2.0			
0606088-01		12			NA	NA			
0606107-01		12							
-02		12							
0606113-18		12							
0606122-01		12							
0606128-01		12							
0606132-01		12							
-02		12							
-03		12							
-07		12							
BF060904-DUP1		12			NA	NA			
MS1		12			6E04037	0.25			
0606135-02	AQ	12	50	50	NA	NA	3005	HB#1	

CONTROL# 30.0014-0603A Page_____

MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE

016

ESS LABORATORY

METALS PREP LOGBOOK

ANALYST: SB

DATE: 6/9/06

TIME: 0845

Batch ID: BF60904

HNO_3 Reagent - AR#: 0605018

1:1 HCl Reagent- WR#: 060530F

1:1 HNO_3 Reagent- WR#: NA

H_2O_2 Reagent- AR#: NA

Hot Plate	Temp (°C)
HB#1	95°
U	

Sample ID	matrix	pH	Initial wgt/vol	Final wgt/vol	QC ID/Lot #	QC wgt/vol	Method	Hot Plate Number	Comments
0606134-01	AQ	12	50	50	NA	NA	3005	HB#1	
BF60904-dup2	↓	12	↓	↓	NA	NA	↓	↓	
-MS2	AQ	12	50	50	6E04037	0.25	3005	HB#1	
0606137-01	AQ	<2	50	50	NA	NA	3005	HB#1	

CONTROL# 30.0014-0603A Page_____

MATRIX KEY: AQ = AQUEOUS, S = SOIL, O = OIL, F = FILTER, D = SLUDGE

ESS Laboratory
Mercury Aqueous Prep Logbook

Analyst: LP

Date: 6/10/06

Batch ID: BF61005

Reagent IDs:

H_2SO_4 ARX60128A

HNO_3 ARX050114 squeeze B

$KMnO_4$ URX060427C

$K_2S_2O_8$ URX060415C

$NaCl-NH_2OH*HCl$ URX050833B

Cal/Spk Std ID*: LF060019

ICV std ID**: LF060020

Sample ID #	pH	Sample Init Vol (ml)	Cal/ ICV/ Spk Vol (ml)	Comments	Final Vol (ml)	Bath #	Temp (°C)	Time in	Time out
BF61005-BLK1	12	20	1A		40	HB#1	95°	1120	1320
-BS1	12		0.12						
-BSD1	12		0.12						
0606147-01T	12		1A						
-02T	12								
-03T	12								
0606107-01	12								
-02	12								
0606113-18	12								
0606122-01	12								
0606132-01	12								
0606142-01	12								
0606143-01	12								
BF61005-DUP1	12		1A						
-MS1	12		0.12						
-MSD1	12		0.12						
0606143-02	12		1A						
BF61005-DUP2	12		1A						
-MS2	12		0.12						
-MSD2	12	20	0.12		40	HB#1	95°	1120	1320
				1A					

* Calibration standards are prepared daily at 0.0, 0.5, 1.0, 3.0, and 5.0 ppb. See SOP for preparation instructions.

**ICV is prepared daily at a concentration of 2.0 ppb. See SOP for preparation instructions.

Volatile Organics
Data Package

Volatile Organics
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI002
Date Sampled: 06/07/06 11:01
Percent Solids: 42
Initial Volume: 5.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-03
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	10.6	1	06/08/06
1,1,1-Trichloroethane	ND	ug/Kg dry	10.6	1	06/08/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	10.6	1	06/08/06
1,1,2-Trichloroethane	ND	ug/Kg dry	10.6	1	06/08/06
1,1-Dichloroethane	ND	ug/Kg dry	10.6	1	06/08/06
1,1-Dichloroethene	ND	ug/Kg dry	10.6	1	06/08/06
1,1-Dichloropropene	ND	ug/Kg dry	10.6	1	06/08/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	10.6	1	06/08/06
1,2,3-Trichloropropane	ND	ug/Kg dry	10.6	1	06/08/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	10.6	1	06/08/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	10.6	1	06/08/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	10.6	1	06/08/06
1,2-Dibromoethane	ND	ug/Kg dry	10.6	1	06/08/06
1,2-Dichlorobenzene	ND	ug/Kg dry	10.6	1	06/08/06
1,2-Dichloroethane	ND	ug/Kg dry	10.6	1	06/08/06
1,2-Dichloropropane	ND	ug/Kg dry	10.6	1	06/08/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	10.6	1	06/08/06
1,3-Dichlorobenzene	ND	ug/Kg dry	10.6	1	06/08/06
1,3-Dichloropropane	ND	ug/Kg dry	10.6	1	06/08/06
1,4-Dichlorobenzene	ND	ug/Kg dry	10.6	1	06/08/06
1,4-Dioxane - Screen	ND	ug/Kg dry	531	1	06/08/06
1-Chlorohexane	ND	ug/Kg dry	10.6	1	06/08/06
2,2-Dichloropropane	ND	ug/Kg dry	10.6	1	06/08/06
2-Butanone	ND	ug/Kg dry	106	1	06/08/06
2-Chlorotoluene	ND	ug/Kg dry	10.6	1	06/08/06
2-Hexanone	ND	ug/Kg dry	106	1	06/08/06
4-Chlorotoluene	ND	ug/Kg dry	10.6	1	06/08/06
4-Isopropyltoluene	ND	ug/Kg dry	10.6	1	06/08/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	106	1	06/08/06
Acetone	ND	ug/Kg dry	106	1	06/08/06
Benzene	ND	ug/Kg dry	10.6	1	06/08/06
Bromobenzene	ND	ug/Kg dry	10.6	1	06/08/06
Bromochloromethane	ND	ug/Kg dry	10.6	1	06/08/06
Bromodichloromethane	ND	ug/Kg dry	10.6	1	06/08/06
Bromoform	ND	ug/Kg dry	10.6	1	06/08/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI002
Date Sampled: 06/07/06 11:01
Percent Solids: 42
Initial Volume: 5.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-03
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	21.3	1	06/08/06
Carbon Disulfide	ND	ug/Kg dry	10.6	1	06/08/06
Carbon Tetrachloride	ND	ug/Kg dry	10.6	1	06/08/06
Chlorobenzene	ND	ug/Kg dry	10.6	1	06/08/06
Chloroethane	ND	ug/Kg dry	21.3	1	06/08/06
Chloroform	ND	ug/Kg dry	10.6	1	06/08/06
Chloromethane	ND	ug/Kg dry	21.3	1	06/08/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	10.6	1	06/08/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	10.6	1	06/08/06
Dibromochloromethane	ND	ug/Kg dry	10.6	1	06/08/06
Dibromomethane	ND	ug/Kg dry	10.6	1	06/08/06
Dichlorodifluoromethane	ND	ug/Kg dry	21.3	1	06/08/06
Diethyl Ether	ND	ug/Kg dry	10.6	1	06/08/06
Di-isopropyl ether	ND	ug/Kg dry	10.6	1	06/08/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	10.6	1	06/08/06
Ethylbenzene	ND	ug/Kg dry	10.6	1	06/08/06
Hexachlorobutadiene	ND	ug/Kg dry	10.6	1	06/08/06
Isopropylbenzene	ND	ug/Kg dry	10.6	1	06/08/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	10.6	1	06/08/06
Methylene Chloride	ND	ug/Kg dry	53.1	1	06/08/06
Naphthalene	ND	ug/Kg dry	10.6	1	06/08/06
n-Butylbenzene	ND	ug/Kg dry	10.6	1	06/08/06
n-Propylbenzene	ND	ug/Kg dry	10.6	1	06/08/06
sec-Butylbenzene	ND	ug/Kg dry	10.6	1	06/08/06
Styrene	ND	ug/Kg dry	10.6	1	06/08/06
tert-Butylbenzene	ND	ug/Kg dry	10.6	1	06/08/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	10.6	1	06/08/06
Tetrachloroethene	ND	ug/Kg dry	10.6	1	06/08/06
Tetrahydrofuran	ND	ug/Kg dry	10.6	1	06/08/06
Toluene	ND	ug/Kg dry	10.6	1	06/08/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	10.6	1	06/08/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	10.6	1	06/08/06
Trichloroethene	ND	ug/Kg dry	10.6	1	06/08/06
Trichlorofluoromethane	ND	ug/Kg dry	10.6	1	06/08/06
Vinyl Chloride	ND	ug/Kg dry	21.3	1	06/08/06
Xylene O	ND	ug/Kg dry	10.6	1	06/08/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI002
Date Sampled: 06/07/06 11:01
Percent Solids: 42
Initial Volume: 5.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-03
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	21.3	1	06/08/06
Xylenes (Total)	ND	ug/Kg	31.9		06/08/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*90 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*78 %*		*70-130*
Surrogate: Dibromofluoromethane	*99 %*		*70-130*
Surrogate: Toluene-d8	*111 %*		*70-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI021
Date Sampled: 06/08/06 16:05
Percent Solids: 79
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-05
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Analyte	Results	Units	MRL	DF	Analyzed
1,1,1,2-Tetrachloroethane	ND	ug/Kg dry	6.3	1	06/09/06
1,1,1-Trichloroethane	ND	ug/Kg dry	6.3	1	06/09/06
1,1,2,2-Tetrachloroethane	ND	ug/Kg dry	6.3	1	06/09/06
1,1,2-Trichloroethane	ND	ug/Kg dry	6.3	1	06/09/06
1,1-Dichloroethane	ND	ug/Kg dry	6.3	1	06/09/06
1,1-Dichloroethene	ND	ug/Kg dry	6.3	1	06/09/06
1,1-Dichloropropene	ND	ug/Kg dry	6.3	1	06/09/06
1,2,3-Trichlorobenzene	ND	ug/Kg dry	6.3	1	06/09/06
1,2,3-Trichloropropane	ND	ug/Kg dry	6.3	1	06/09/06
1,2,4-Trichlorobenzene	ND	ug/Kg dry	6.3	1	06/09/06
1,2,4-Trimethylbenzene	ND	ug/Kg dry	6.3	1	06/09/06
1,2-Dibromo-3-Chloropropane	ND	ug/Kg dry	6.3	1	06/09/06
1,2-Dibromoethane	ND	ug/Kg dry	6.3	1	06/09/06
1,2-Dichlorobenzene	ND	ug/Kg dry	6.3	1	06/09/06
1,2-Dichloroethane	ND	ug/Kg dry	6.3	1	06/09/06
1,2-Dichloropropane	ND	ug/Kg dry	6.3	1	06/09/06
1,3,5-Trimethylbenzene	ND	ug/Kg dry	6.3	1	06/09/06
1,3-Dichlorobenzene	ND	ug/Kg dry	6.3	1	06/09/06
1,3-Dichloropropane	ND	ug/Kg dry	6.3	1	06/09/06
1,4-Dichlorobenzene	ND	ug/Kg dry	6.3	1	06/09/06
1,4-Dioxane - Screen	ND	ug/Kg dry	316	1	06/09/06
1-Chlorohexane	ND	ug/Kg dry	6.3	1	06/09/06
2,2-Dichloropropane	ND	ug/Kg dry	6.3	1	06/09/06
2-Butanone	ND	ug/Kg dry	63.3	1	06/09/06
2-Chlorotoluene	ND	ug/Kg dry	6.3	1	06/09/06
2-Hexanone	ND	ug/Kg dry	63.3	1	06/09/06
4-Chlorotoluene	ND	ug/Kg dry	6.3	1	06/09/06
4-Isopropyltoluene	ND	ug/Kg dry	6.3	1	06/09/06
4-Methyl-2-Pentanone	ND	ug/Kg dry	63.3	1	06/09/06
Acetone	ND	ug/Kg dry	63.3	1	06/09/06
Benzene	ND	ug/Kg dry	6.3	1	06/09/06
Bromobenzene	ND	ug/Kg dry	6.3	1	06/09/06
Bromochloromethane	ND	ug/Kg dry	6.3	1	06/09/06
Bromodichloromethane	ND	ug/Kg dry	6.3	1	06/09/06
Bromoform	ND	ug/Kg dry	6.3	1	06/09/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI021
Date Sampled: 06/08/06 16:05
Percent Solids: 79
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-05
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Bromomethane	ND	ug/Kg dry	12.7	1	06/09/06
Carbon Disulfide	ND	ug/Kg dry	6.3	1	06/09/06
Carbon Tetrachloride	ND	ug/Kg dry	6.3	1	06/09/06
Chlorobenzene	ND	ug/Kg dry	6.3	1	06/09/06
Chloroethane	ND	ug/Kg dry	12.7	1	06/09/06
Chloroform	ND	ug/Kg dry	6.3	1	06/09/06
Chloromethane	ND	ug/Kg dry	12.7	1	06/09/06
cis-1,2-Dichloroethene	ND	ug/Kg dry	6.3	1	06/09/06
cis-1,3-Dichloropropene	ND	ug/Kg dry	6.3	1	06/09/06
Dibromochloromethane	ND	ug/Kg dry	6.3	1	06/09/06
Dibromomethane	ND	ug/Kg dry	6.3	1	06/09/06
Dichlorodifluoromethane	ND	ug/Kg dry	12.7	1	06/09/06
Diethyl Ether	ND	ug/Kg dry	6.3	1	06/09/06
Di-isopropyl ether	ND	ug/Kg dry	6.3	1	06/09/06
Ethyl tertiary-butyl ether	ND	ug/Kg dry	6.3	1	06/09/06
Ethylbenzene	ND	ug/Kg dry	6.3	1	06/09/06
Hexachlorobutadiene	ND	ug/Kg dry	6.3	1	06/09/06
Isopropylbenzene	ND	ug/Kg dry	6.3	1	06/09/06
Methyl tert-Butyl Ether	ND	ug/Kg dry	6.3	1	06/09/06
Methylene Chloride	ND	ug/Kg dry	31.6	1	06/09/06
Naphthalene	ND	ug/Kg dry	6.3	1	06/09/06
n-Butylbenzene	ND	ug/Kg dry	6.3	1	06/09/06
n-Propylbenzene	ND	ug/Kg dry	6.3	1	06/09/06
sec-Butylbenzene	ND	ug/Kg dry	6.3	1	06/09/06
Styrene	ND	ug/Kg dry	6.3	1	06/09/06
tert-Butylbenzene	ND	ug/Kg dry	6.3	1	06/09/06
Tertiary-amyl methyl ether	ND	ug/Kg dry	6.3	1	06/09/06
Tetrachloroethene	ND	ug/Kg dry	6.3	1	06/09/06
Tetrahydrofuran	ND	ug/Kg dry	6.3	1	06/09/06
Toluene	ND	ug/Kg dry	6.3	1	06/09/06
trans-1,2-Dichloroethene	ND	ug/Kg dry	6.3	1	06/09/06
trans-1,3-Dichloropropene	ND	ug/Kg dry	6.3	1	06/09/06
Trichloroethene	ND	ug/Kg dry	6.3	1	06/09/06
Trichlorofluoromethane	ND	ug/Kg dry	6.3	1	06/09/06
Vinyl Chloride	ND	ug/Kg dry	12.7	1	06/09/06
Xylene O	ND	ug/Kg dry	6.3	1	06/09/06

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI021
Date Sampled: 06/08/06 16:05
Percent Solids: 79
Initial Volume: 5
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-05
Sample Matrix: Soil
Analyst: MD

5035/8260B Volatile Organic Compounds / Low Level

Xylene P,M	ND	ug/Kg dry	12.7	I	06/09/06
Xylenes (Total)	ND	ug/Kg	19.0		06/09/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichloroethane-d4	*95 %*		*70-130*
Surrogate: 4-Bromofluorobenzene	*94 %*		*70-130*
Surrogate: Dibromofluoromethane	*100 %*		*70-130*
Surrogate: Toluene-d8	*96 %*		*70-130*

Volatile Organics Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
Batch BF60915 - 7471A										
Blank										
Mercury	ND	0.033	mg/kg wet							
LCS										
Mercury	0.202	0.033	mg/kg wet	0.200		101	80-120			
LCS Dup										
Mercury	0.203	0.033	mg/kg wet	0.200		102	80-120	1	20	
Duplicate **Source: 0606113-11**										
Mercury	1.10	0.370	mg/kg dry		0.789			33	35	
Matrix Spike **Source: 0606113-11**										
Mercury	0.989	0.342	mg/kg dry	0.205	0.789	98	75-125			
Matrix Spike Dup **Source: 0606113-11**										
Mercury	1.31	0.358	mg/kg dry	0.215	0.789	242	75-125	85	35	+
Reference										
Mercury	1.94	0.322	mg/kg wet	1.77		110	68.36-132.2			
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60811 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethene	ND	5.0	ug/Kg wet							
1,1-Dichloropropene	ND	5.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	5.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg wet							
1,2-Dibromoethane	ND	5.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,2-Dichloroethane	ND	5.0	ug/Kg wet							
1,2-Dichloropropane	ND	5.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,3-Dichloropropane	ND	5.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	250	ug/Kg wet							
1-Chlorohexane	ND	5.0	ug/Kg wet							
2,2-Dichloropropane	ND	5.0	ug/Kg wet							
2-Butanone	ND	50.0	ug/Kg wet							
2-Chlorotoluene	ND	5.0	ug/Kg wet							
2-Hexanone	ND	50.0	ug/Kg wet							
4-Chlorotoluene	ND	5.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60811 - 5035										
4-Isopropyltoluene	ND	5.0	ug/Kg wet							
4-Methyl-2-Pentanone	ND	50.0	ug/Kg wet							
Acetone	ND	50.0	ug/Kg wet							
Benzene	ND	5.0	ug/Kg wet							
Bromobenzene	ND	5.0	ug/Kg wet							
Bromochloromethane	ND	5.0	ug/Kg wet							
Bromodichloromethane	ND	5.0	ug/Kg wet							
Bromoform	ND	5.0	ug/Kg wet							
Bromomethane	ND	10.0	ug/Kg wet							
Carbon Disulfide	ND	5.0	ug/Kg wet							
Carbon Tetrachloride	ND	5.0	ug/Kg wet							
Chlorobenzene	ND	5.0	ug/Kg wet							
Chloroethane	ND	10.0	ug/Kg wet							
Chloroform	ND	5.0	ug/Kg wet							
Chloromethane	ND	10.0	ug/Kg wet							
cis-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Dibromochloromethane	ND	5.0	ug/Kg wet							
Dibromomethane	ND	5.0	ug/Kg wet							
Dichlorodifluoromethane	ND	10.0	ug/Kg wet							
Diethyl Ether	ND	5.0	ug/Kg wet							
Di-isopropyl ether	ND	5.0	ug/Kg wet							
Ethyl tertiary-butyl ether	ND	5.0	ug/Kg wet							
Ethylbenzene	ND	5.0	ug/Kg wet							
Hexachlorobutadiene	ND	5.0	ug/Kg wet							
Isopropylbenzene	ND	5.0	ug/Kg wet							
Methyl tert-Butyl Ether	ND	5.0	ug/Kg wet							
Methylene Chloride	ND	25.0	ug/Kg wet							
Naphthalene	ND	5.0	ug/Kg wet							
n-Butylbenzene	ND	5.0	ug/Kg wet							
n-Propylbenzene	ND	5.0	ug/Kg wet							
sec-Butylbenzene	ND	5.0	ug/Kg wet							
Styrene	ND	5.0	ug/Kg wet							
tert-Butylbenzene	ND	5.0	ug/Kg wet							
Tertiary-amyl methyl ether	ND	5.0	ug/Kg wet							
Tetrachloroethene	ND	5.0	ug/Kg wet							
Tetrahydrofuran	ND	5.0	ug/Kg wet							
Toluene	ND	5.0	ug/Kg wet							
trans-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
trans-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Trichloroethene	ND	5.0	ug/Kg wet							
Trichlorofluoromethane	ND	5.0	ug/Kg wet							
Vinyl Chloride	ND	10.0	ug/Kg wet							
Xylene O	ND	5.0	ug/Kg wet							
Xylene P,M	ND	10.0	ug/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*22.8*		ug/L	*25.0*		*91*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.0*		ug/L	*25.0*		*96*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60811 - 5035										
Surrogate: Dibromofluoromethane	*24.4*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Toluene-d8	*23.4*		ug/L	*25.0*		*94*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	23.4		ug/L	25.0		94	70-130			
1,1,1-Trichloroethane	23.8		ug/L	25.0		95	70-130			
1,1,2,2-Tetrachloroethane	24.1		ug/L	25.0		96	70-130			
1,1,2-Trichloroethane	23.5		ug/L	25.0		94	70-130			
1,1-Dichloroethane	24.0		ug/L	25.0		96	70-130			
1,1-Dichloroethene	25.9		ug/L	25.0		104	70-130			
1,1-Dichloropropene	23.5		ug/L	25.0		94	70-130			
1,2,3-Trichlorobenzene	25.6		ug/L	25.0		102	70-130			
1,2,3-Trichloropropane	24.1		ug/L	25.0		96	70-130			
1,2,4-Trichlorobenzene	24.0		ug/L	25.0		96	70-130			
1,2,4-Trimethylbenzene	24.6		ug/L	25.0		98	70-130			
1,2-Dibromo-3-Chloropropane	23.8		ug/L	25.0		95	70-130			
1,2-Dibromoethane	23.6		ug/L	25.0		94	70-130			
1,2-Dichlorobenzene	23.5		ug/L	25.0		94	70-130			
1,2-Dichloroethane	23.4		ug/L	25.0		94	70-130			
1,2-Dichloropropane	23.6		ug/L	25.0		94	70-130			
1,3,5-Trimethylbenzene	24.3		ug/L	25.0		97	70-130			
1,3-Dichlorobenzene	23.4		ug/L	25.0		94	70-130			
1,3-Dichloropropane	24.2		ug/L	25.0		97	70-130			
1,4-Dichlorobenzene	23.1		ug/L	25.0		92	70-130			
1,4-Dioxane - Screen	482		ug/L	500		96	70-130			
1-Chlorohexane	24.3		ug/L	25.0		97	70-130			
2,2-Dichloropropane	24.4		ug/L	25.0		98	70-130			
2-Butanone	117		ug/L	125		94	70-130			
2-Chlorotoluene	24.8		ug/L	25.0		99	70-130			
2-Hexanone	121		ug/L	125		97	70-130			
4-Chlorotoluene	24.0		ug/L	25.0		96	70-130			
4-Isopropyltoluene	24.0		ug/L	25.0		96	70-130			
4-Methyl-2-Pentanone	112		ug/L	125		90	70-130			
Acetone	104		ug/L	125		83	70-130			
Benzene	24.4		ug/L	25.0		98	70-130			
Bromobenzene	24.8		ug/L	25.0		99	70-130			
Bromochloromethane	24.4		ug/L	25.0		98	70-130			
Bromodichloromethane	25.2		ug/L	25.0		101	70-130			
Bromoform	24.1		ug/L	25.0		96	70-130			
Bromomethane	23.9		ug/L	25.0		96	70-130			
Carbon Disulfide	25.5		ug/L	25.0		102	70-130			
Carbon Tetrachloride	23.6		ug/L	25.0		94	70-130			
Chlorobenzene	23.9		ug/L	25.0		96	70-130			
Chloroethane	17.6		ug/L	25.0		70	70-130			
Chloroform	24.1		ug/L	25.0		96	70-130			
Chloromethane	25.5		ug/L	25.0		102	70-130			
cis-1,2-Dichloroethene	25.7		ug/L	25.0		103	70-130			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60811 - 5035										
cis-1,3-Dichloropropene	23.4		ug/L	25.0		94	70-130			
Dibromochloromethane	24.4		ug/L	25.0		98	70-130			
Dibromomethane	24.3		ug/L	25.0		97	70-130			
Dichlorodifluoromethane	27.0		ug/L	25.0		108	70-130			
Diethyl Ether	24.8		ug/L	25.0		99	70-130			
Di-isopropyl ether	25.0		ug/L	25.0		100	70-130			
Ethyl tertiary-butyl ether	23.8		ug/L	25.0		95	70-130			
Ethylbenzene	24.8		ug/L	25.0		99	70-130			
Hexachlorobutadiene	24.3		ug/L	25.0		97	70-130			
Isopropylbenzene	22.3		ug/L	25.0		89	70-130			
Methyl tert-Butyl Ether	23.3		ug/L	25.0		93	70-130			
Methylene Chloride	24.8		ug/L	25.0		99	70-130			
Naphthalene	25.3		ug/L	25.0		101	70-130			
n-Butylbenzene	24.7		ug/L	25.0		99	70-130			
n-Propylbenzene	24.3		ug/L	25.0		97	70-130			
sec-Butylbenzene	24.2		ug/L	25.0		97	70-130			
Styrene	24.7		ug/L	25.0		99	70-130			
tert-Butylbenzene	24.2		ug/L	25.0		97	70-130			
Tertiary-amyl methyl ether	24.6		ug/L	25.0		98	70-130			
Tetrachloroethene	24.1		ug/L	25.0		96	70-130			
Tetrahydrofuran	23.9		ug/L	25.0		96	70-130			
Toluene	24.2		ug/L	25.0		97	70-130			
trans-1,2-Dichloroethene	24.0		ug/L	25.0		96	70-130			
trans-1,3-Dichloropropene	21.8		ug/L	25.0		87	70-130			
Trichloroethene	23.6		ug/L	25.0		94	70-130			
Trichlorofluoromethane	23.5		ug/L	25.0		94	70-130			
Vinyl Chloride	25.4		ug/L	25.0		102	70-130			
Xylene O	24.2		ug/L	25.0		97	70-130			
Xylene P,M	48.7		ug/L	50.0		97	70-130			
Surrogate: 1,2-Dichloroethane-d4	*23.8*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.4*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*23.8*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: Toluene-d8	*24.6*		ug/L	*25.0*		*98*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	24.1		ug/L	25.0		96	70-130	2	20	
1,1,1-Trichloroethane	24.5		ug/L	25.0		98	70-130	3	20	
1,1,2,2-Tetrachloroethane	25.5		ug/L	25.0		102	70-130	6	20	
1,1,2-Trichloroethane	24.4		ug/L	25.0		98	70-130	4	20	
1,1-Dichloroethane	24.6		ug/L	25.0		98	70-130	2	20	
1,1-Dichloroethene	26.6		ug/L	25.0		106	70-130	2	20	
1,1-Dichloropropene	24.3		ug/L	25.0		97	70-130	3	20	
1,2,3-Trichlorobenzene	26.2		ug/L	25.0		105	70-130	3	20	
1,2,3-Trichloropropane	25.5		ug/L	25.0		102	70-130	6	20	
1,2,4-Trichlorobenzene	24.5		ug/L	25.0		98	70-130	2	20	
1,2,4-Trimethylbenzene	25.1		ug/L	25.0		100	70-130	2	20	
1,2-Dibromo-3-Chloropropane	25.8		ug/L	25.0		103	70-130	8	20	
1,2-Dibromoethane	24.7		ug/L	25.0		99	70-130	5	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60811 - 5035										
1,2-Dichlorobenzene	24.4		ug/L	25.0		98	70-130	4	20	
1,2-Dichloroethane	23.8		ug/L	25.0		95	70-130	1	20	
1,2-Dichloropropane	24.1		ug/L	25.0		96	70-130	2	20	
1,3,5-Trimethylbenzene	25.0		ug/L	25.0		100	70-130	3	20	
1,3-Dichlorobenzene	23.9		ug/L	25.0		96	70-130	2	20	
1,3-Dichloropropane	25.1		ug/L	25.0		100	70-130	3	20	
1,4-Dichlorobenzene	23.6		ug/L	25.0		94	70-130	2	20	
1,4-Dioxane - Screen	524		ug/L	500		105	70-130	9	20	
1-Chlorohexane	25.1		ug/L	25.0		100	70-130	3	20	
2,2-Dichloropropane	25.0		ug/L	25.0		100	70-130	2	20	
2-Butanone	127		ug/L	125		102	70-130	8	20	
2-Chlorotoluene	24.9		ug/L	25.0		100	70-130	1	20	
2-Hexanone	132		ug/L	125		106	70-130	9	20	
4-Chlorotoluene	24.5		ug/L	25.0		98	70-130	2	20	
4-Isopropyltoluene	24.6		ug/L	25.0		98	70-130	2	20	
4-Methyl-2-Pentanone	122		ug/L	125		98	70-130	9	20	
Acetone	113		ug/L	125		90	70-130	8	20	
Benzene	25.0		ug/L	25.0		100	70-130	2	20	
Bromobenzene	25.4		ug/L	25.0		102	70-130	3	20	
Bromochloromethane	25.2		ug/L	25.0		101	70-130	3	20	
Bromodichloromethane	25.9		ug/L	25.0		104	70-130	3	20	
Bromoform	25.3		ug/L	25.0		101	70-130	5	20	
Bromomethane	24.4		ug/L	25.0		98	70-130	2	20	
Carbon Disulfide	26.2		ug/L	25.0		105	70-130	3	20	
Carbon Tetrachloride	24.3		ug/L	25.0		97	70-130	3	20	
Chlorobenzene	24.5		ug/L	25.0		98	70-130	2	20	
Chloroethane	16.4		ug/L	25.0		66	70-130	6	20	+
Chloroform	24.8		ug/L	25.0		99	70-130	3	20	
Chloromethane	26.5		ug/L	25.0		106	70-130	4	20	
cis-1,2-Dichloroethene	26.4		ug/L	25.0		106	70-130	3	20	
cis-1,3-Dichloropropene	24.1		ug/L	25.0		96	70-130	2	20	
Dibromochloromethane	25.2		ug/L	25.0		101	70-130	3	20	
Dibromomethane	25.2		ug/L	25.0		101	70-130	4	20	
Dichlorodifluoromethane	27.7		ug/L	25.0		111	70-130	3	20	
Diethyl Ether	25.6		ug/L	25.0		102	70-130	3	20	
Di-isopropyl ether	25.7		ug/L	25.0		103	70-130	3	20	
Ethyl tertiary-butyl ether	24.6		ug/L	25.0		98	70-130	3	20	
Ethylbenzene	25.5		ug/L	25.0		102	70-130	3	20	
Hexachlorobutadiene	24.7		ug/L	25.0		99	70-130	2	20	
Isopropylbenzene	22.8		ug/L	25.0		91	70-130	2	20	
Methyl tert-Butyl Ether	24.2		ug/L	25.0		97	70-130	4	20	
Methylene Chloride	25.5		ug/L	25.0		102	70-130	3	20	
Naphthalene	26.9		ug/L	25.0		108	70-130	7	20	
n-Butylbenzene	25.4		ug/L	25.0		102	70-130	3	20	
n-Propylbenzene	25.0		ug/L	25.0		100	70-130	3	20	
sec-Butylbenzene	24.6		ug/L	25.0		98	70-130	1	20	
Styrene	25.4		ug/L	25.0		102	70-130	3	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60811 - 5035										
tert-Butylbenzene	24.8		ug/L	25.0		99	70-130	2	20	
Tertiary-amyl methyl ether	25.2		ug/L	25.0		101	70-130	3	20	
Tetrachloroethene	24.8		ug/L	25.0		99	70-130	3	20	
Tetrahydrofuran	25.9		ug/L	25.0		104	70-130	8	20	
Toluene	24.8		ug/L	25.0		99	70-130	2	20	
trans-1,2-Dichloroethene	24.8		ug/L	25.0		99	70-130	3	20	
trans-1,3-Dichloropropene	22.4		ug/L	25.0		90	70-130	3	20	
Trichloroethene	24.3		ug/L	25.0		97	70-130	3	20	
Trichlorofluoromethane	24.3		ug/L	25.0		97	70-130	3	20	
Vinyl Chloride	26.2		ug/L	25.0		105	70-130	3	20	
Xylene O	24.9		ug/L	25.0		100	70-130	3	20	
Xylene P,M	49.9		ug/L	50.0		100	70-130	3	20	
Surrogate: 1,2-Dichloroethane-d4	*24.2*		ug/L	*25.0*		*97*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.5*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*23.9*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Toluene-d8	*24.7*		ug/L	*25.0*		*99*	*70-130*			
Batch BF60918 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethene	ND	5.0	ug/Kg wet							
1,1-Dichloropropene	ND	5.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	5.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg wet							
1,2-Dibromoethane	ND	5.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,2-Dichloroethane	ND	5.0	ug/Kg wet							
1,2-Dichloropropane	ND	5.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,3-Dichloropropane	ND	5.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	250	ug/Kg wet							
1-Chlorohexane	ND	5.0	ug/Kg wet							
2,2-Dichloropropane	ND	5.0	ug/Kg wet							
2-Butanone	ND	50.0	ug/Kg wet							
2-Chlorotoluene	ND	5.0	ug/Kg wet							
2-Hexanone	ND	50.0	ug/Kg wet							
4-Chlorotoluene	ND	5.0	ug/Kg wet							
4-Isopropyltoluene	ND	5.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60811 - 5035										
tert-Butylbenzene	24.8		ug/L	25.0		99	70-130	2	20	
Tertiary-amyl methyl ether	25.2		ug/L	25.0		101	70-130	3	20	
Tetrachloroethene	24.8		ug/L	25.0		99	70-130	3	20	
Tetrahydrofuran	25.9		ug/L	25.0		104	70-130	8	20	
Toluene	24.8		ug/L	25.0		99	70-130	2	20	
trans-1,2-Dichloroethene	24.8		ug/L	25.0		99	70-130	3	20	
trans-1,3-Dichloropropene	22.4		ug/L	25.0		90	70-130	3	20	
Trichloroethene	24.3		ug/L	25.0		97	70-130	3	20	
Trichlorofluoromethane	24.3		ug/L	25.0		97	70-130	3	20	
Vinyl Chloride	26.2		ug/L	25.0		105	70-130	3	20	
Xylene O	24.9		ug/L	25.0		100	70-130	3	20	
Xylene P,M	49.9		ug/L	50.0		100	70-130	3	20	
Surrogate: 1,2-Dichloroethane-d4	*24.2*		ug/L	*25.0*		*97*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.5*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*23.9*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: Toluene-d8	*24.7*		ug/L	*25.0*		*99*	*70-130*			
Batch BF60918 - 5035										
Blank										
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,1-Trichloroethane	ND	5.0	ug/Kg wet							
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg wet							
1,1,2-Trichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethane	ND	5.0	ug/Kg wet							
1,1-Dichloroethene	ND	5.0	ug/Kg wet							
1,1-Dichloropropene	ND	5.0	ug/Kg wet							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,3-Trichloropropane	ND	5.0	ug/Kg wet							
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg wet							
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,2-Dibromo-3-Chloropropane	ND	5.0	ug/Kg wet							
1,2-Dibromoethane	ND	5.0	ug/Kg wet							
1,2-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,2-Dichloroethane	ND	5.0	ug/Kg wet							
1,2-Dichloropropane	ND	5.0	ug/Kg wet							
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg wet							
1,3-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,3-Dichloropropane	ND	5.0	ug/Kg wet							
1,4-Dichlorobenzene	ND	5.0	ug/Kg wet							
1,4-Dioxane - Screen	ND	250	ug/Kg wet							
1-Chlorohexane	ND	5.0	ug/Kg wet							
2,2-Dichloropropane	ND	5.0	ug/Kg wet							
2-Butanone	ND	50.0	ug/Kg wet							
2-Chlorotoluene	ND	5.0	ug/Kg wet							
2-Hexanone	ND	50.0	ug/Kg wet							
4-Chlorotoluene	ND	5.0	ug/Kg wet							
4-Isopropyltoluene	ND	5.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
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ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60918 - 5035										
4-Methyl-2-Pentanone	ND	50.0	ug/Kg wet							
Acetone	ND	50.0	ug/Kg wet							
Benzene	ND	5.0	ug/Kg wet							
Bromobenzene	ND	5.0	ug/Kg wet							
Bromochloromethane	ND	5.0	ug/Kg wet							
Bromodichloromethane	ND	5.0	ug/Kg wet							
Bromoform	ND	5.0	ug/Kg wet							
Bromomethane	ND	10.0	ug/Kg wet							
Carbon Disulfide	ND	5.0	ug/Kg wet							
Carbon Tetrachloride	ND	5.0	ug/Kg wet							
Chlorobenzene	ND	5.0	ug/Kg wet							
Chloroethane	ND	10.0	ug/Kg wet							
Chloroform	ND	5.0	ug/Kg wet							
Chloromethane	ND	10.0	ug/Kg wet							
cis-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
cis-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Dibromochloromethane	ND	5.0	ug/Kg wet							
Dibromomethane	ND	5.0	ug/Kg wet							
Dichlorodifluoromethane	ND	10.0	ug/Kg wet							
Diethyl Ether	ND	5.0	ug/Kg wet							
Di-isopropyl ether	ND	5.0	ug/Kg wet							
Ethyl tertiary-butyl ether	ND	5.0	ug/Kg wet							
Ethylbenzene	ND	5.0	ug/Kg wet							
Hexachlorobutadiene	ND	5.0	ug/Kg wet							
Isopropylbenzene	ND	5.0	ug/Kg wet							
Methyl tert-Butyl Ether	ND	5.0	ug/Kg wet							
Methylene Chloride	ND	25.0	ug/Kg wet							
Naphthalene	ND	5.0	ug/Kg wet							
n-Butylbenzene	ND	5.0	ug/Kg wet							
n-Propylbenzene	ND	5.0	ug/Kg wet							
sec-Butylbenzene	ND	5.0	ug/Kg wet							
Styrene	ND	5.0	ug/Kg wet							
tert-Butylbenzene	ND	5.0	ug/Kg wet							
Tertiary-amyl methyl ether	ND	5.0	ug/Kg wet							
Tetrachloroethene	ND	5.0	ug/Kg wet							
Tetrahydrofuran	ND	5.0	ug/Kg wet							
Toluene	ND	5.0	ug/Kg wet							
trans-1,2-Dichloroethene	ND	5.0	ug/Kg wet							
trans-1,3-Dichloropropene	ND	5.0	ug/Kg wet							
Trichloroethene	ND	5.0	ug/Kg wet							
Trichlorofluoromethane	ND	5.0	ug/Kg wet							
Vinyl Chloride	ND	10.0	ug/Kg wet							
Xylene O	ND	5.0	ug/Kg wet							
Xylene P,M	ND	10.0	ug/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*22.7*		ug/L	*25.0*		*91*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*23.8*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: Dibromofluoromethane	*24.6*		ug/L	*25.0*		*98*	*70-130*			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60918 - 5035										
Surrogate: Toluene-d8	*23.4*		ug/L	*25.0*		*94*	*70-130*			
LCS										
1,1,1,2-Tetrachloroethane	24.0		ug/L	25.0		96	70-130			
1,1,1-Trichloroethane	24.5		ug/L	25.0		98	70-130			
1,1,2,2-Tetrachloroethane	24.6		ug/L	25.0		98	70-130			
1,1,2-Trichloroethane	24.1		ug/L	25.0		96	70-130			
1,1-Dichloroethane	25.0		ug/L	25.0		100	70-130			
1,1-Dichloroethene	26.5		ug/L	25.0		106	70-130			
1,1-Dichloropropene	24.8		ug/L	25.0		99	70-130			
1,2,3-Trichlorobenzene	26.2		ug/L	25.0		105	70-130			
1,2,3-Trichloropropane	24.7		ug/L	25.0		99	70-130			
1,2,4-Trichlorobenzene	24.3		ug/L	25.0		97	70-130			
1,2,4-Trimethylbenzene	25.4		ug/L	25.0		102	70-130			
1,2-Dibromo-3-Chloropropane	23.9		ug/L	25.0		96	70-130			
1,2-Dibromoethane	24.0		ug/L	25.0		96	70-130			
1,2-Dichlorobenzene	24.2		ug/L	25.0		97	70-130			
1,2-Dichloroethane	23.6		ug/L	25.0		94	70-130			
1,2-Dichloropropane	24.3		ug/L	25.0		97	70-130			
1,3,5-Trimethylbenzene	25.2		ug/L	25.0		101	70-130			
1,3-Dichlorobenzene	24.2		ug/L	25.0		97	70-130			
1,3-Dichloropropane	24.9		ug/L	25.0		100	70-130			
1,4-Dichlorobenzene	23.7		ug/L	25.0		95	70-130			
1,4-Dioxane - Screen	442		ug/L	500		88	70-130			
1-Chlorohexane	25.0		ug/L	25.0		100	70-130			
2,2-Dichloropropane	25.2		ug/L	25.0		101	70-130			
2-Butanone	117		ug/L	125		94	70-130			
2-Chlorotoluene	24.5		ug/L	25.0		98	70-130			
2-Hexanone	122		ug/L	125		98	70-130			
4-Chlorotoluene	24.8		ug/L	25.0		99	70-130			
4-Isopropyltoluene	24.8		ug/L	25.0		99	70-130			
4-Methyl-2-Pentanone	113		ug/L	125		90	70-130			
Acetone	113		ug/L	125		90	70-130			
Benzene	25.2		ug/L	25.0		101	70-130			
Bromobenzene	25.5		ug/L	25.0		102	70-130			
Bromochloromethane	25.1		ug/L	25.0		100	70-130			
Bromodichloromethane	25.9		ug/L	25.0		104	70-130			
Bromoform	24.6		ug/L	25.0		98	70-130			
Bromomethane	23.0		ug/L	25.0		92	70-130			
Carbon Disulfide	26.4		ug/L	25.0		106	70-130			
Carbon Tetrachloride	24.3		ug/L	25.0		97	70-130			
Chlorobenzene	24.7		ug/L	25.0		99	70-130			
Chloroethane	19.8		ug/L	25.0		79	70-130			
Chloroform	25.0		ug/L	25.0		100	70-130			
Chloromethane	26.8		ug/L	25.0		107	70-130			
cis-1,2-Dichloroethene	26.4		ug/L	25.0		106	70-130			
cis-1,3-Dichloropropene	23.9		ug/L	25.0		96	70-130			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60918 - 5035										
Dibromochloromethane	24.9		ug/L	25.0		100	70-130			
Dibromomethane	24.9		ug/L	25.0		100	70-130			
Dichlorodifluoromethane	28.1		ug/L	25.0		112	70-130			
Diethyl Ether	25.3		ug/L	25.0		101	70-130			
Di-isopropyl ether	25.8		ug/L	25.0		103	70-130			
Ethyl tertiary-butyl ether	24.2		ug/L	25.0		97	70-130			
Ethylbenzene	26.0		ug/L	25.0		104	70-130			
Hexachlorobutadiene	25.3		ug/L	25.0		101	70-130			
Isopropylbenzene	23.2		ug/L	25.0		93	70-130			
Methyl tert-Butyl Ether	27.2		ug/L	25.0		109	70-130			
Methylene Chloride	25.1		ug/L	25.0		100	70-130			
Naphthalene	25.0		ug/L	25.0		100	70-130			
n-Butylbenzene	25.7		ug/L	25.0		103	70-130			
n-Propylbenzene	25.7		ug/L	25.0		103	70-130			
sec-Butylbenzene	25.1		ug/L	25.0		100	70-130			
Styrene	25.4		ug/L	25.0		102	70-130			
tert-Butylbenzene	25.0		ug/L	25.0		100	70-130			
Tertiary-amyl methyl ether	25.0		ug/L	25.0		100	70-130			
Tetrachloroethene	24.9		ug/L	25.0		100	70-130			
Tetrahydrofuran	24.4		ug/L	25.0		98	70-130			
Toluene	25.1		ug/L	25.0		100	70-130			
trans-1,2-Dichloroethene	28.7		ug/L	25.0		115	70-130			
trans-1,3-Dichloropropene	22.1		ug/L	25.0		88	70-130			
Trichloroethene	24.4		ug/L	25.0		98	70-130			
Trichlorofluoromethane	24.4		ug/L	25.0		98	70-130			
Vinyl Chloride	26.9		ug/L	25.0		108	70-130			
Xylene O	24.9		ug/L	25.0		100	70-130			
Xylene P,M	50.5		ug/L	50.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.1*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.6*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*23.8*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: Toluene-d8	*24.8*		ug/L	*25.0*		*99*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	24.3		ug/L	25.0		97	70-130	1	20	
1,1,1-Trichloroethane	24.4		ug/L	25.0		98	70-130	0	20	
1,1,2,2-Tetrachloroethane	25.0		ug/L	25.0		100	70-130	2	20	
1,1,2-Trichloroethane	24.2		ug/L	25.0		97	70-130	1	20	
1,1-Dichloroethane	24.8		ug/L	25.0		99	70-130	1	20	
1,1-Dichloroethene	26.3		ug/L	25.0		105	70-130	0.9	20	
1,1-Dichloropropene	24.3		ug/L	25.0		97	70-130	2	20	
1,2,3-Trichlorobenzene	25.7		ug/L	25.0		103	70-130	2	20	
1,2,3-Trichloropropane	25.0		ug/L	25.0		100	70-130	1	20	
1,2,4-Trichlorobenzene	23.9		ug/L	25.0		96	70-130	1	20	
1,2,4-Trimethylbenzene	25.1		ug/L	25.0		100	70-130	2	20	
1,2-Dibromo-3-Chloropropane	24.4		ug/L	25.0		98	70-130	2	20	
1,2-Dibromoethane	24.2		ug/L	25.0		97	70-130	1	20	
1,2-Dichlorobenzene	24.0		ug/L	25.0		96	70-130	1	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60918 - 5035										
Dibromochloromethane	24.9		ug/L	25.0		100	70-130			
Dibromomethane	24.9		ug/L	25.0		100	70-130			
Dichlorodifluoromethane	28.1		ug/L	25.0		112	70-130			
Diethyl Ether	25.3		ug/L	25.0		101	70-130			
Di-isopropyl ether	25.8		ug/L	25.0		103	70-130			
Ethyl tertiary-butyl ether	24.2		ug/L	25.0		97	70-130			
Ethylbenzene	26.0		ug/L	25.0		104	70-130			
Hexachlorobutadiene	25.3		ug/L	25.0		101	70-130			
Isopropylbenzene	23.2		ug/L	25.0		93	70-130			
Methyl tert-Butyl Ether	27.2		ug/L	25.0		109	70-130			
Methylene Chloride	25.1		ug/L	25.0		100	70-130			
Naphthalene	25.0		ug/L	25.0		100	70-130			
n-Butylbenzene	25.7		ug/L	25.0		103	70-130			
n-Propylbenzene	25.7		ug/L	25.0		103	70-130			
sec-Butylbenzene	25.1		ug/L	25.0		100	70-130			
Styrene	25.4		ug/L	25.0		102	70-130			
tert-Butylbenzene	25.0		ug/L	25.0		100	70-130			
Tertiary-amyl methyl ether	25.0		ug/L	25.0		100	70-130			
Tetrachloroethene	24.9		ug/L	25.0		100	70-130			
Tetrahydrofuran	24.4		ug/L	25.0		98	70-130			
Toluene	25.1		ug/L	25.0		100	70-130			
trans-1,2-Dichloroethene	28.7		ug/L	25.0		115	70-130			
trans-1,3-Dichloropropene	22.1		ug/L	25.0		88	70-130			
Trichloroethene	24.4		ug/L	25.0		98	70-130			
Trichlorofluoromethane	24.4		ug/L	25.0		98	70-130			
Vinyl Chloride	26.9		ug/L	25.0		108	70-130			
Xylene O	24.9		ug/L	25.0		100	70-130			
Xylene P,M	50.5		ug/L	50.0		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	*24.1*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.6*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*23.8*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: Toluene-d8	*24.8*		ug/L	*25.0*		*99*	*70-130*			
LCS Dup										
1,1,1,2-Tetrachloroethane	24.3		ug/L	25.0		97	70-130	1	20	
1,1,1-Trichloroethane	24.4		ug/L	25.0		98	70-130	0	20	
1,1,2,2-Tetrachloroethane	25.0		ug/L	25.0		100	70-130	2	20	
1,1,2-Trichloroethane	24.2		ug/L	25.0		97	70-130	1	20	
1,1-Dichloroethane	24.8		ug/L	25.0		99	70-130	1	20	
1,1-Dichloroethene	26.3		ug/L	25.0		105	70-130	0.9	20	
1,1-Dichloropropene	24.3		ug/L	25.0		97	70-130	2	20	
1,2,3-Trichlorobenzene	25.7		ug/L	25.0		103	70-130	2	20	
1,2,3-Trichloropropane	25.0		ug/L	25.0		100	70-130	1	20	
1,2,4-Trichlorobenzene	23.9		ug/L	25.0		96	70-130	1	20	
1,2,4-Trimethylbenzene	25.1		ug/L	25.0		100	70-130	2	20	
1,2-Dibromo-3-Chloropropane	24.4		ug/L	25.0		98	70-130	2	20	
1,2-Dibromoethane	24.2		ug/L	25.0		97	70-130	1	20	
1,2-Dichlorobenzene	24.0		ug/L	25.0		96	70-130	1	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60918 - 5035										
1,2-Dichloroethane	23.7		ug/L	25.0		95	70-130	1	20	
1,2-Dichloropropane	24.2		ug/L	25.0		97	70-130	0	20	
1,3,5-Trimethylbenzene	25.0		ug/L	25.0		100	70-130	1	20	
1,3-Dichlorobenzene	23.7		ug/L	25.0		95	70-130	2	20	
1,3-Dichloropropane	24.8		ug/L	25.0		99	70-130	1	20	
1,4-Dichlorobenzene	23.5		ug/L	25.0		94	70-130	1	20	
1,4-Dioxane - Screen	449		ug/L	500		90	70-130	2	20	
1-Chlorohexane	25.0		ug/L	25.0		100	70-130	0	20	
2,2-Dichloropropane	24.9		ug/L	25.0		100	70-130	1	20	
2-Butanone	121		ug/L	125		97	70-130	3	20	
2-Chlorotoluene	26.4		ug/L	25.0		106	70-130	8	20	
2-Hexanone	126		ug/L	125		101	70-130	3	20	
4-Chlorotoluene	24.6		ug/L	25.0		98	70-130	1	20	
4-Isopropyltoluene	24.6		ug/L	25.0		98	70-130	1	20	
4-Methyl-2-Pentanone	117		ug/L	125		94	70-130	4	20	
Acetone	113		ug/L	125		90	70-130	0	20	
Benzene	25.0		ug/L	25.0		100	70-130	1	20	
Bromobenzene	25.4		ug/L	25.0		102	70-130	0	20	
Bromochloromethane	25.0		ug/L	25.0		100	70-130	0	20	
Bromodichloromethane	25.6		ug/L	25.0		102	70-130	2	20	
Bromoform	24.7		ug/L	25.0		99	70-130	1	20	
Bromomethane	25.6		ug/L	25.0		102	70-130	10	20	
Carbon Disulfide	26.0		ug/L	25.0		104	70-130	2	20	
Carbon Tetrachloride	24.2		ug/L	25.0		97	70-130	0	20	
Chlorobenzene	24.6		ug/L	25.0		98	70-130	1	20	
Chloroethane	19.2		ug/L	25.0		77	70-130	3	20	
Chloroform	24.8		ug/L	25.0		99	70-130	1	20	
Chloromethane	26.4		ug/L	25.0		106	70-130	0.9	20	
cis-1,2-Dichloroethene	26.5		ug/L	25.0		106	70-130	0	20	
cis-1,3-Dichloropropene	23.9		ug/L	25.0		96	70-130	0	20	
Dibromochloromethane	24.9		ug/L	25.0		100	70-130	0	20	
Dibromomethane	25.0		ug/L	25.0		100	70-130	0	20	
Dichlorodifluoromethane	27.4		ug/L	25.0		110	70-130	2	20	
Diethyl Ether	25.2		ug/L	25.0		101	70-130	0	20	
Di-isopropyl ether	25.6		ug/L	25.0		102	70-130	1	20	
Ethyl tertiary-butyl ether	24.2		ug/L	25.0		97	70-130	0	20	
Ethylbenzene	25.7		ug/L	25.0		103	70-130	1	20	
Hexachlorobutadiene	25.0		ug/L	25.0		100	70-130	1	20	
Isopropylbenzene	23.0		ug/L	25.0		92	70-130	1	20	
Methyl tert-Butyl Ether	27.4		ug/L	25.0		110	70-130	0.9	20	
Methylene Chloride	25.4		ug/L	25.0		102	70-130	2	20	
Naphthalene	25.8		ug/L	25.0		103	70-130	3	20	
n-Butylbenzene	25.2		ug/L	25.0		101	70-130	2	20	
n-Propylbenzene	24.5		ug/L	25.0		98	70-130	5	20	
sec-Butylbenzene	24.9		ug/L	25.0		100	70-130	0	20	
Styrene	25.3		ug/L	25.0		101	70-130	1	20	
tert-Butylbenzene	24.9		ug/L	25.0		100	70-130	0	20	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60918 - 5035										
Tertiary-amyl methyl ether	25.1		ug/L	25.0		100	70-130	0	20	
Tetrachloroethene	24.6		ug/L	25.0		98	70-130	2	20	
Tetrahydrofuran	25.2		ug/L	25.0		101	70-130	3	20	
Toluene	24.9		ug/L	25.0		100	70-130	0	20	
trans-1,2-Dichloroethene	28.2		ug/L	25.0		113	70-130	2	20	
trans-1,3-Dichloropropene	22.0		ug/L	25.0		88	70-130	0	20	
Trichloroethene	24.2		ug/L	25.0		97	70-130	1	20	
Trichlorofluoromethane	24.3		ug/L	25.0		97	70-130	1	20	
Vinyl Chloride	26.6		ug/L	25.0		106	70-130	2	20	
Xylene O	24.9		ug/L	25.0		100	70-130	0	20	
Xylene P,M	50.2		ug/L	50.0		100	70-130	1	20	
Surrogate: 1,2-Dichloroethane-d4	*23.9*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.5*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*23.8*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: Toluene-d8	*24.7*		ug/L	*25.0*		*99*	*70-130*			
8081A Organochlorine Pesticides										
Batch BF60923 - 3541										
Blank										
4,4'-DDD	ND	5.00	ug/Kg wet							
4,4'-DDE	ND	5.00	ug/Kg wet							
4,4'-DDT	ND	5.00	ug/Kg wet							
Aldrin	ND	5.00	ug/Kg wet							
alpha-BHC	ND	5.00	ug/Kg wet							
alpha-Chlordane	ND	5.00	ug/Kg wet							
beta-BHC	ND	5.00	ug/Kg wet							
Chlordane (Total)	ND	50.0	ug/Kg wet							
delta-BHC	ND	5.00	ug/Kg wet							
Dieldrin	ND	5.00	ug/Kg wet							
Endosulfan I	ND	5.00	ug/Kg wet							
Endosulfan II	ND	5.00	ug/Kg wet							
Endosulfan Sulfate	ND	5.00	ug/Kg wet							
Endrin	ND	5.00	ug/Kg wet							
Endrin Aldehyde	ND	5.00	ug/Kg wet							
Endrin Ketone	ND	5.00	ug/Kg wet							
gamma-BHC (Lindane)	ND	5.00	ug/Kg wet							
gamma-Chlordane	ND	5.00	ug/Kg wet							
Heptachlor	ND	5.00	ug/Kg wet							
Heptachlor Epoxide	ND	5.00	ug/Kg wet							
Hexachlorobenzene	ND	5.00	ug/Kg wet							
Methoxychlor	ND	5.00	ug/Kg wet							
Toxaphene	ND	250	ug/Kg wet							
Surrogate: Decachlorobiphenyl	*22.1*		ug/Kg wet	*25.0*		*88*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*20.3*		ug/Kg wet	*25.0*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*20.1*		ug/Kg wet	*25.0*		*80*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*20.7*		ug/Kg wet	*25.0*		*83*	*30-150*			

Volatile Organics Calibration Data

ANALYSIS SEQUENCE

BPF0045

Instrument: VMS4

Calibnration ID: ~~0605037~~ L060606

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0045-TUN1	QC		1		6F06045		
BPF0045-CAL1	QC		2		6F06046	6E24035	
BPF0045-CAL2	QC		3		6F06047	6E24035	
BPF0045-CAL3	QC		4		6F06048	6E24035	
BPF0045-CAL4	QC		5		6F06049	6E24035	
BPF0045-CAL5	QC		6		6F06050	6E24035	
BPF0045-CAL6	QC		7		6F06051	6E24035	
BPF0045-SCV1	QC		8		6F06053	6E24035	

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/5/06	7	M4 14922	0606019-06	A605096	pH22	
	8	M4 23	-07			
	9	M4 24	-08			
	10	M4 25	-03		10X	
	11	M4 26	-04		10X	
	12	M4 27	-02		50X	
	13	M4 28	-09		50X	
6/5/06	14	M4 29	-05	A605096	100X pH22	
6/6/06	1	M4 30	BPF0045 - TUNI	L005706	6F06045	
	2	M4 31	BPF0045 - CAL1		6F06046	
	3	M4 32	BPF0045 - CAL2		6F06047	
	4	M4 33	BPF0045 - CAL3		6F06048	
	5	M4 34	BPF0045 - CAL4		6F06049	
	6	M4 35	BPF0045 - CAL5		6F06050	
	7	M4 36	BPF0045 - CAL6		6F06051	
	8	M4 37	Test Blk	L005706		
6/6/06	9	M4 38	BPF0045 - SCV1	L060606	6F06053	

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6E24033

On-column IS: 6E24034

Page

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration

Calibration Files
25 =M414931.D 10 =M414932.D 5 =M414933.D
2.5 =M414934.D 50 =M414935.D 100 =M414936.D

		Compound	25	10	5	2.5	50	100	Avg	%RSD
45)		Trichloroethene	0.384	0.382	0.444	0.481	0.390	0.403	0.414	9.65
46)		Methyl Cyclohexane	0.374	0.371	0.429	0.454	0.380	0.391	0.400	8.43
47)		1,2-Dichloropropane	0.266	0.263	0.304	0.332	0.270	0.276	0.285	9.58
48)		Dibromomethane	0.314	0.310	0.362	0.387	0.323	0.326	0.337	9.11
49)		1,4-Dioxane	0.002	0.002	0.003	0.004	0.003	0.003	0.003	21.57
50)		Methyl Methacrylate	0.167	0.165	0.198	0.209	0.175	0.173	0.181	9.87
51)		Bromodichloromethan	0.553	0.537	0.615	0.683	0.556	0.575	0.587	9.26
52)		2-Nitropropane	0.042	0.043	0.053	0.056	0.047	0.045	0.048	11.96
53)		2-Chloroethyl vinyl	0.096	0.103	0.126	0.133	0.093	0.080	0.105	19.23
54)		4-Methyl-2-Pentanon	0.076	0.077	0.095	0.105	0.084	0.080	0.086	13.45
55)		cis-1,3-Dichloropro	0.412	0.401	0.458	0.502	0.415	0.426	0.436	8.69
56)		Toluene	0.511	0.500	0.579	0.634	0.512	0.533	0.545	9.54
57)		trans-1,3-Dichlorop	0.342	0.332	0.383	0.410	0.352	0.359	0.363	8.01
58)		1,1,2-Trichloroetha	0.228	0.225	0.269	0.286	0.235	0.235	0.246	10.21
59)	I	Chlorobenzene-d5	----------ISTD----------							
60)	S	Toluene-d8 (SURR)	1.009	1.001	1.152	1.264	1.011	1.062	1.083	9.72
61)		2-Hexanone	0.147	0.155	0.191	0.225	0.165	0.162	0.174	16.70
62)		Ethyl Methacrylate	0.348	0.351	0.415	0.437	0.366	0.366	0.380	9.64
63)		1,3-Dichloropropane	0.428	0.428	0.495	0.524	0.443	0.455	0.462	8.47
64)		Tetrachloroethene	0.457	0.454	0.522	0.572	0.460	0.477	0.490	9.70
65)		Dibromochloromethan	0.744	0.728	0.843	0.909	0.763	0.794	0.797	8.59
66)		1,2-Dibromoethane	0.562	0.561	0.649	0.691	0.584	0.595	0.607	8.59
67)		1-Chlorohexane	0.479	0.482	0.557	0.594	0.482	0.499	0.516	9.39
68)		Chlorobenzene	0.871	0.862	0.991	1.077	0.872	0.911	0.931	9.25
69)		1,1,1,2-Tetrachloro	0.498	0.503	0.591	0.647	0.500	0.522	0.543	11.40
70)		Ethylbenzene	1.216	1.191	1.367	1.504	1.210	1.264	1.292	9.42
71)		Xylene P,M	0.499	0.494	0.571	0.621	0.500	0.519	0.534	9.61
72)		Xylene O	0.471	0.476	0.543	0.596	0.473	0.488	0.508	10.00
73)		Styrene	0.819	0.804	0.918	0.999	0.819	0.850	0.868	8.76
74)		Bromoform	0.541	0.526	0.617	0.661	0.570	0.583	0.583	8.53
75)		cis-1,4-Dichloro-2-	0.111	0.127	0.112	0.119	0.113	0.110	0.115	5.84
76)	S	Bromofluorobenzene	0.684	0.680	0.783	0.873	0.679	0.702	0.733	10.80
77)	I	1,4 Dichlorobenzene-D	----------ISTD----------							
78)		Isopropylbenzene	2.395	2.382	2.735	3.010	2.412	2.587	2.587	9.64
79)		Trans-1,4-Dichloro-	0.145	0.138	0.159	0.171	0.156	0.163	0.155	7.79
80)		1,2,3-Trichloroprop	0.653	0.653	0.852	0.861	0.705	0.768	0.748	12.53
81)		Bromobenzene	0.842	0.836	0.961	1.058	0.856	0.907	0.910	9.54
82)		1,1,2,2-Tetrachloro	0.864	0.870	1.053	1.256	0.916	0.933	0.982	15.32
83)		n-Propylbenzene	3.166	3.070	3.512	3.848	3.101	3.185	3.314	9.24
84)		2-Chlorotoluene	1.422	1.484	1.746	1.895	1.493	1.709	1.625	11.45
85)		4-Chlorotoluene	2.010	2.012	2.291	2.677	1.998	2.131	2.186	12.13
86)		1,3,5-Trimethylbenz	1.963	1.949	2.275	2.505	1.973	2.102	2.128	10.45
87)		Pentachloroethane	2.772	2.760	3.190	3.550	2.776	2.916	2.994	10.62

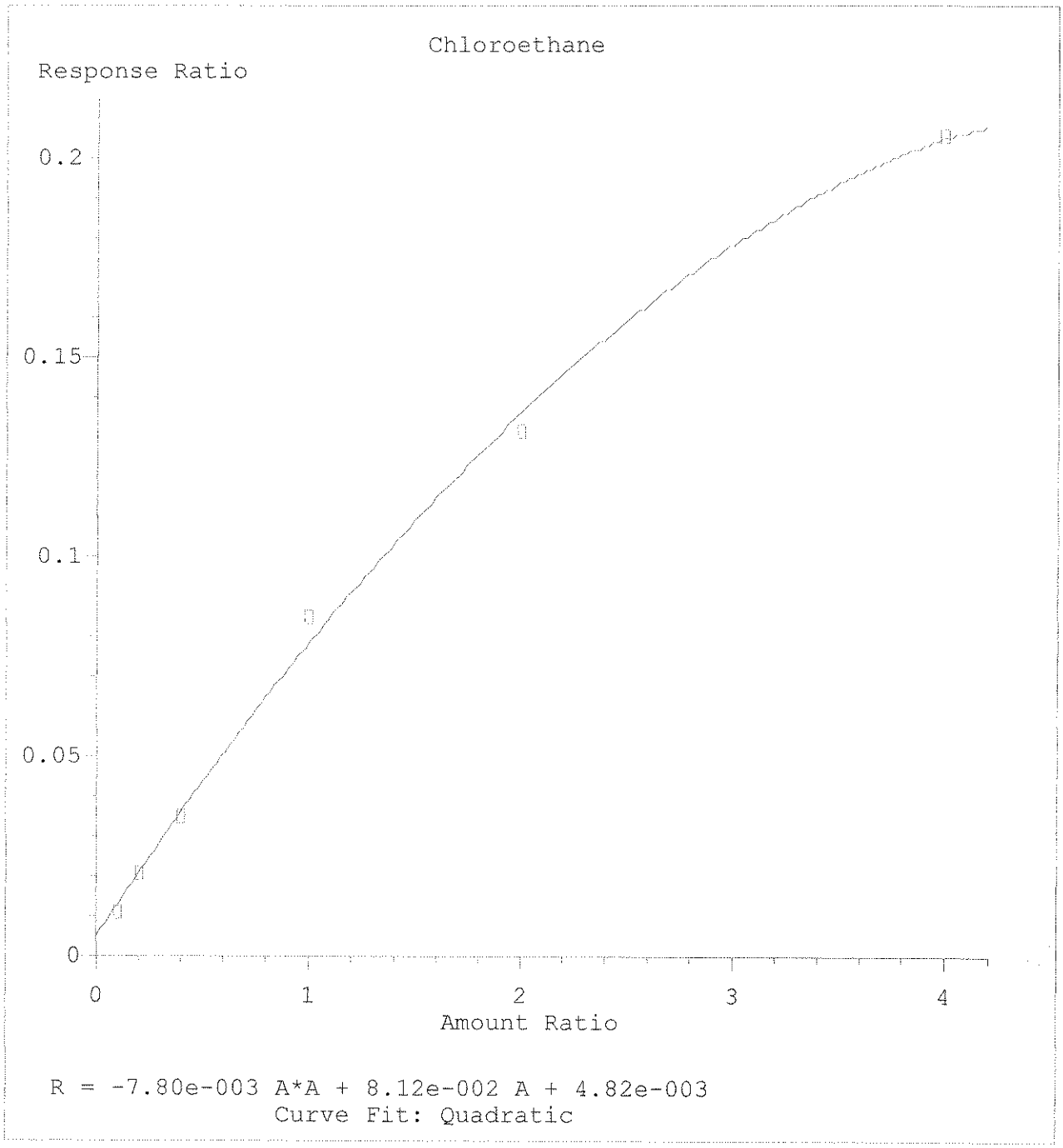
(#) = Out of Range

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0605024
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration

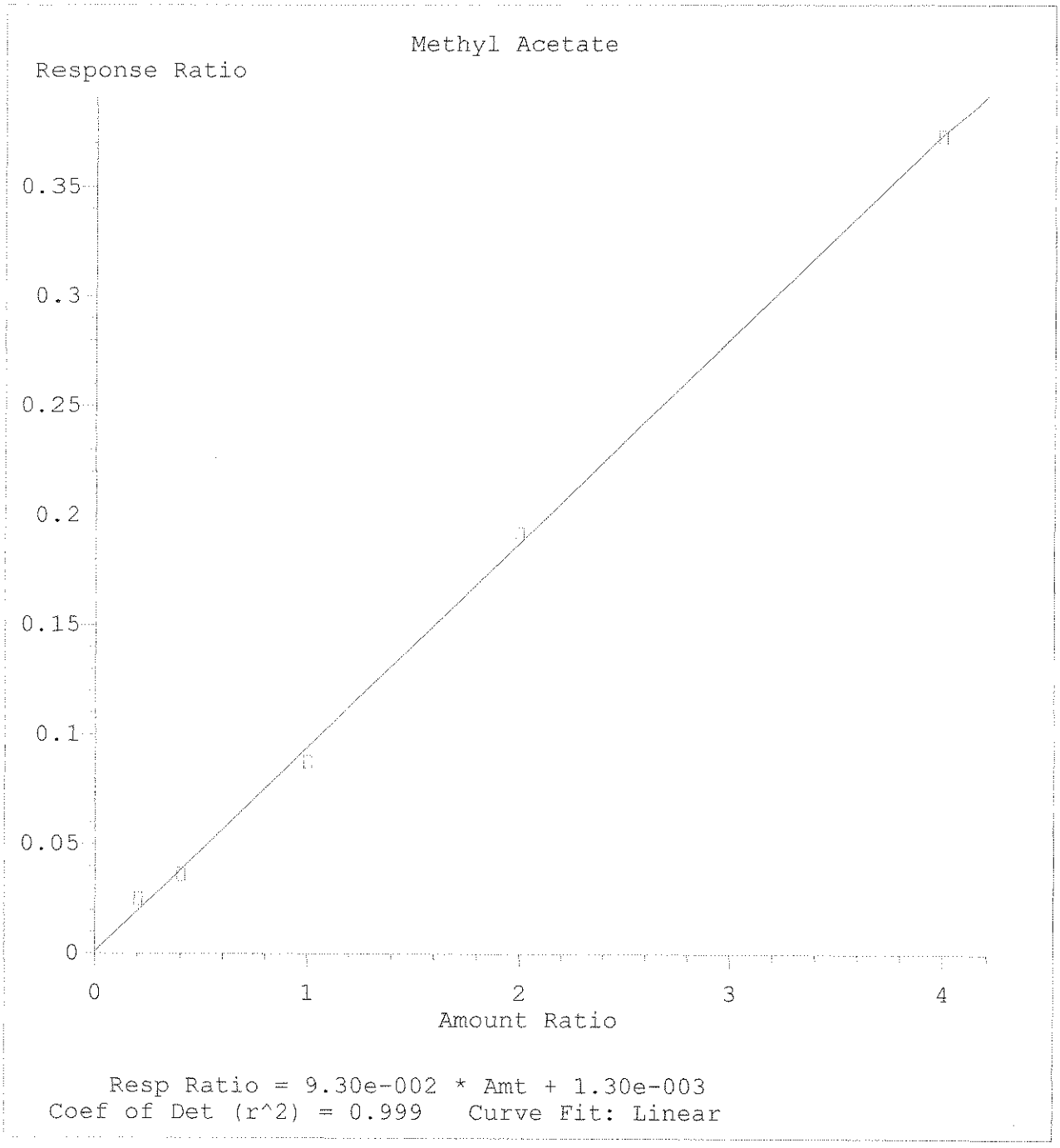
Calibration Files
25 =M414931.D 10 =M414932.D 5 =M414933.D
2.5 =M414934.D 50 =M414935.D 100 =M414936.D

	Compound	25	10	5	2.5	50	100	Avg	%RSD
88)	tert-Butylbenzene	2.772	2.760	3.190	3.550	2.776	2.916	2.994	10.62
89)	1,2,4-Trimethylbenz	1.981	1.992	2.288	2.524	1.993	2.132	2.152	10.12
90)	sec-Butylbenzene	2.968	2.940	3.391	3.812	2.991	3.188	3.215	10.54
91)	1,3 Dichlorobenzene	1.430	1.418	1.649	1.828	1.427	1.521	1.545	10.61
92)	4-Isopropyltoluene	2.409	2.397	2.822	3.087	2.406	2.531	2.609	10.93
93)	1,4 Dichlorobenzene	1.481	1.455	1.754	1.950	1.477	1.554	1.612	12.34
94)	n-Butylbenzene	2.176	2.166	2.485	2.717	2.163	2.289	2.333	9.66
95)	1,2 Dichlorobenzene	1.283	1.308	1.499	1.679	1.292	1.362	1.404	11.18
96)	Hexachloroethane	0.930	0.906	1.035	1.132	0.943	1.008	0.993	8.45
97)	1,2-Dibromo-3-Chlor	0.157	0.158	0.198		0.178	0.179	0.174	9.83
98)	1,2,4-Trichlorobenz	1.060	1.065	1.241	1.496	1.051	1.109	1.170	14.90
99)	Hexachlorobutadiene	0.766	0.762	0.890	1.007	0.771	0.808	0.834	11.69
100)	Naphthalene	1.406	1.476	1.818	2.372	1.486	1.529	1.681	21.86
101)	1,2,3-Trichlorobenz	0.877	0.907	1.061	1.370	0.888	0.931	1.006	18.93

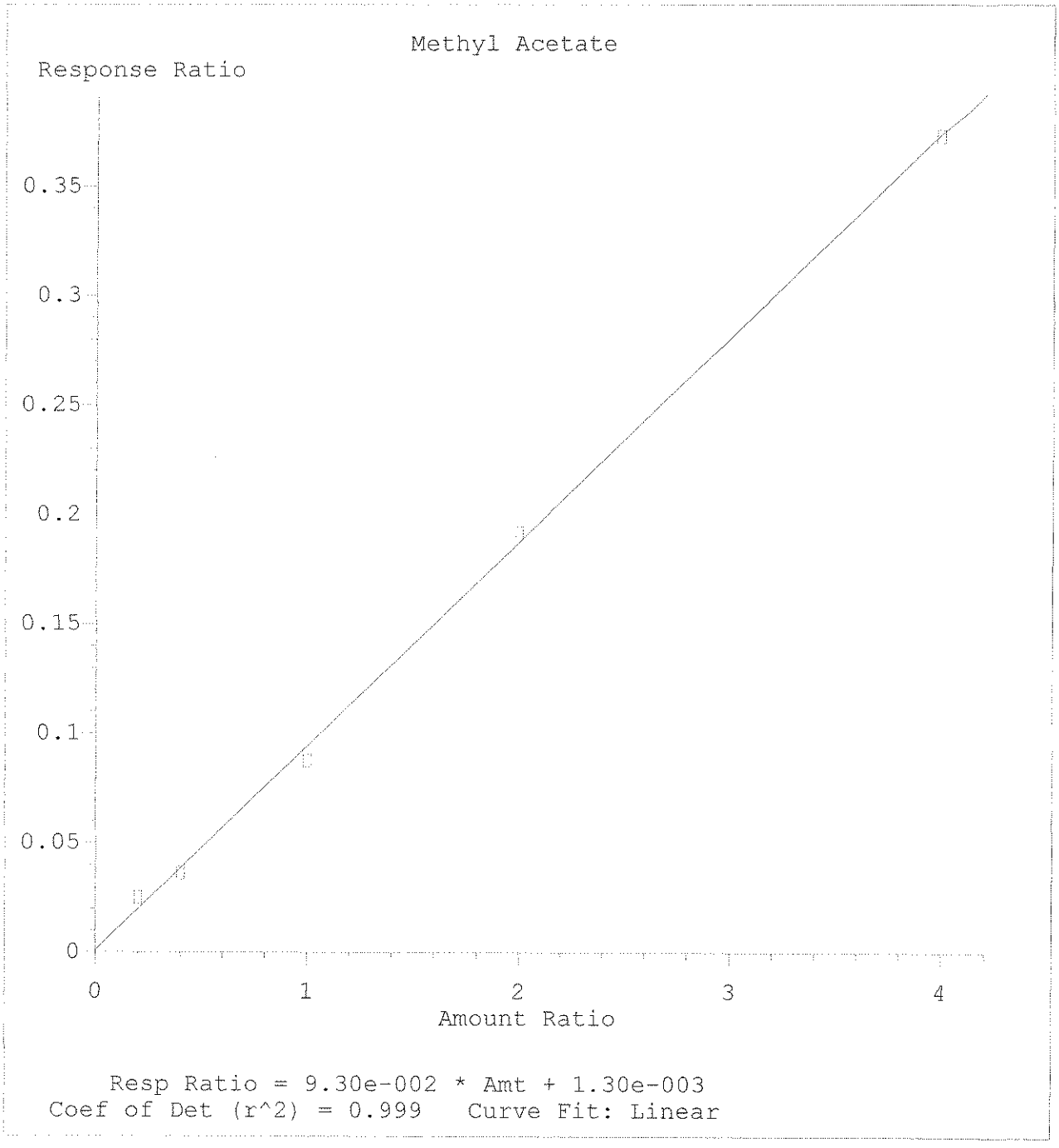
(#) = Out of Range



Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:23:38 2006



Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:24:44 2006



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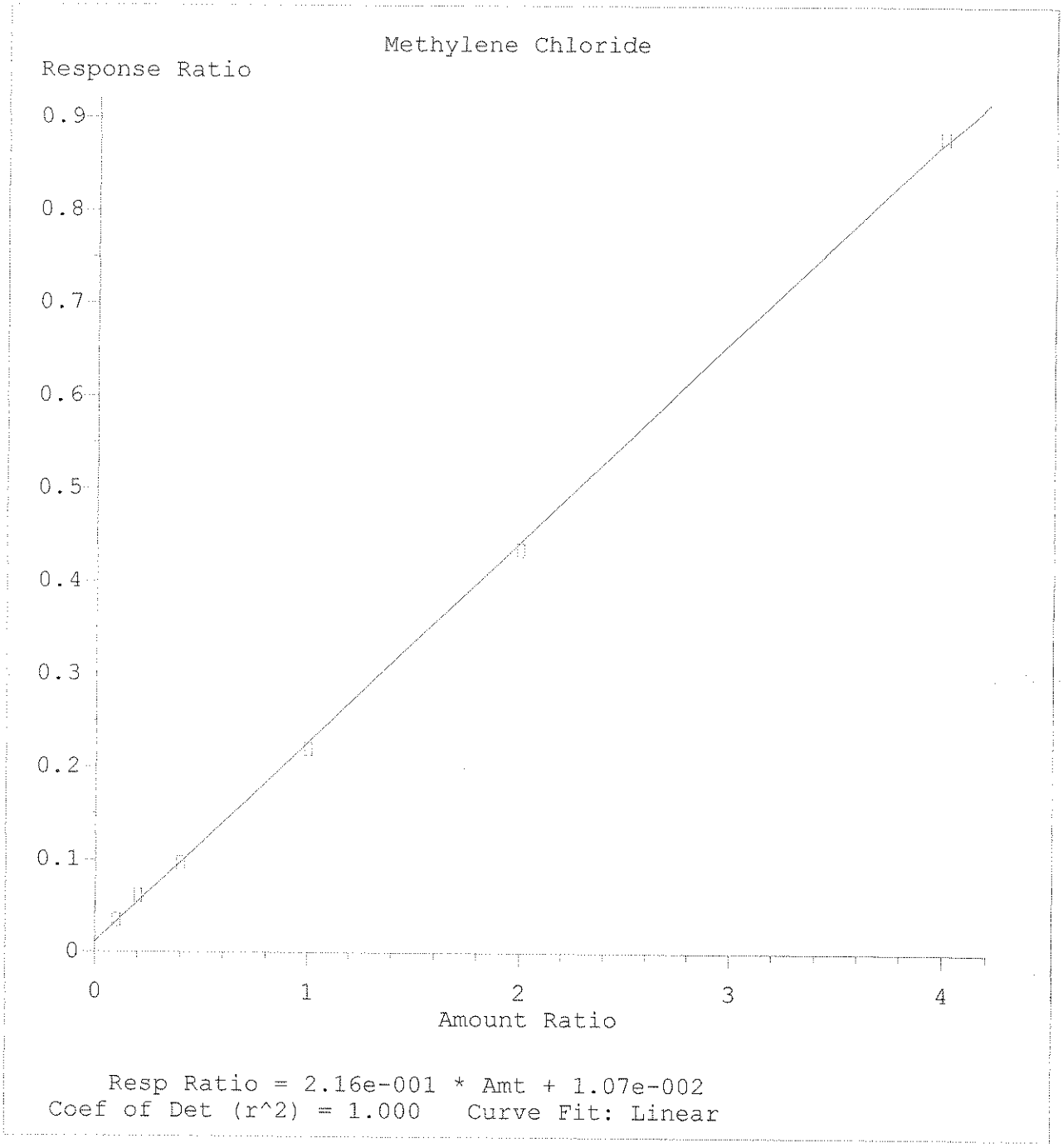

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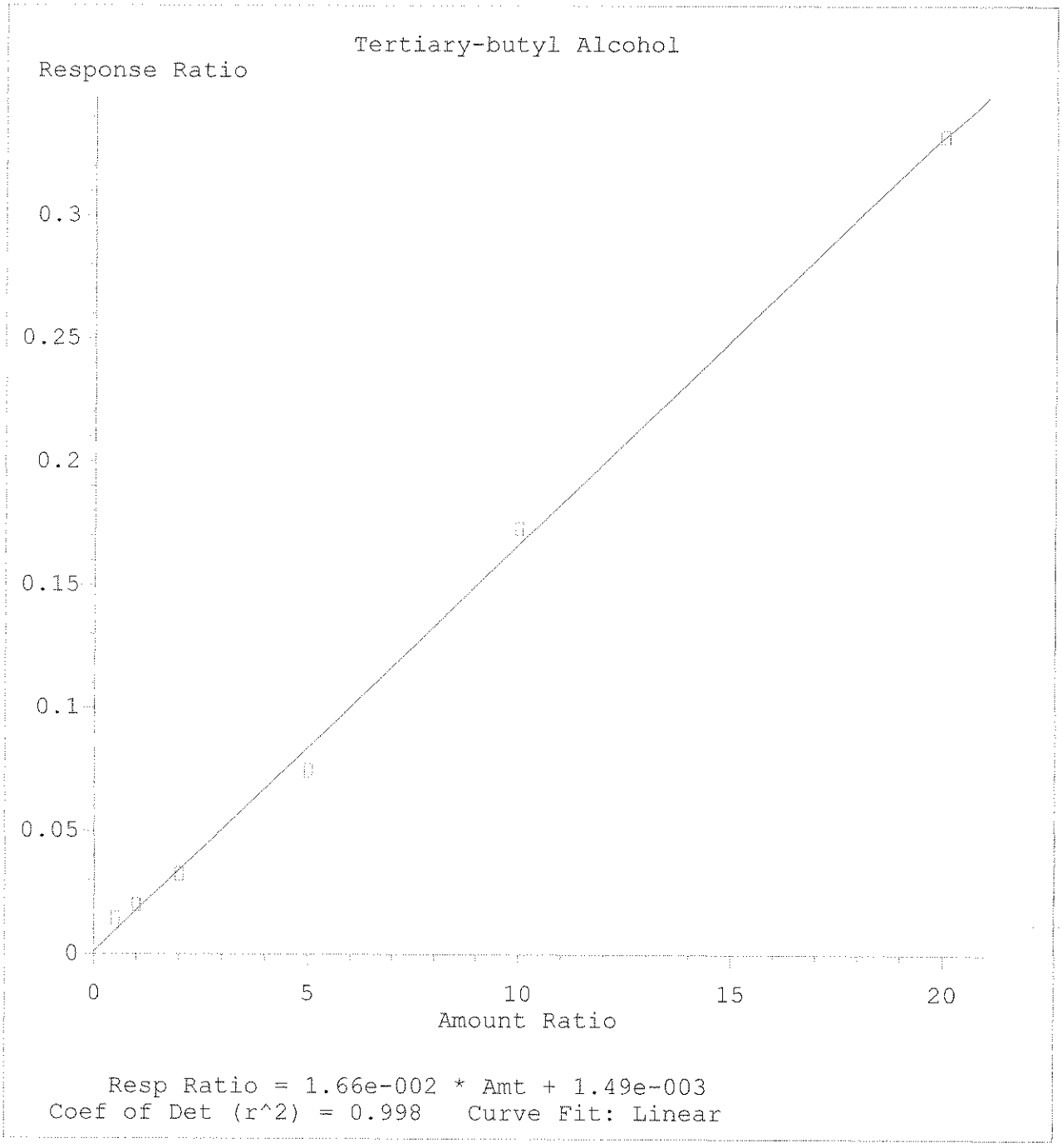

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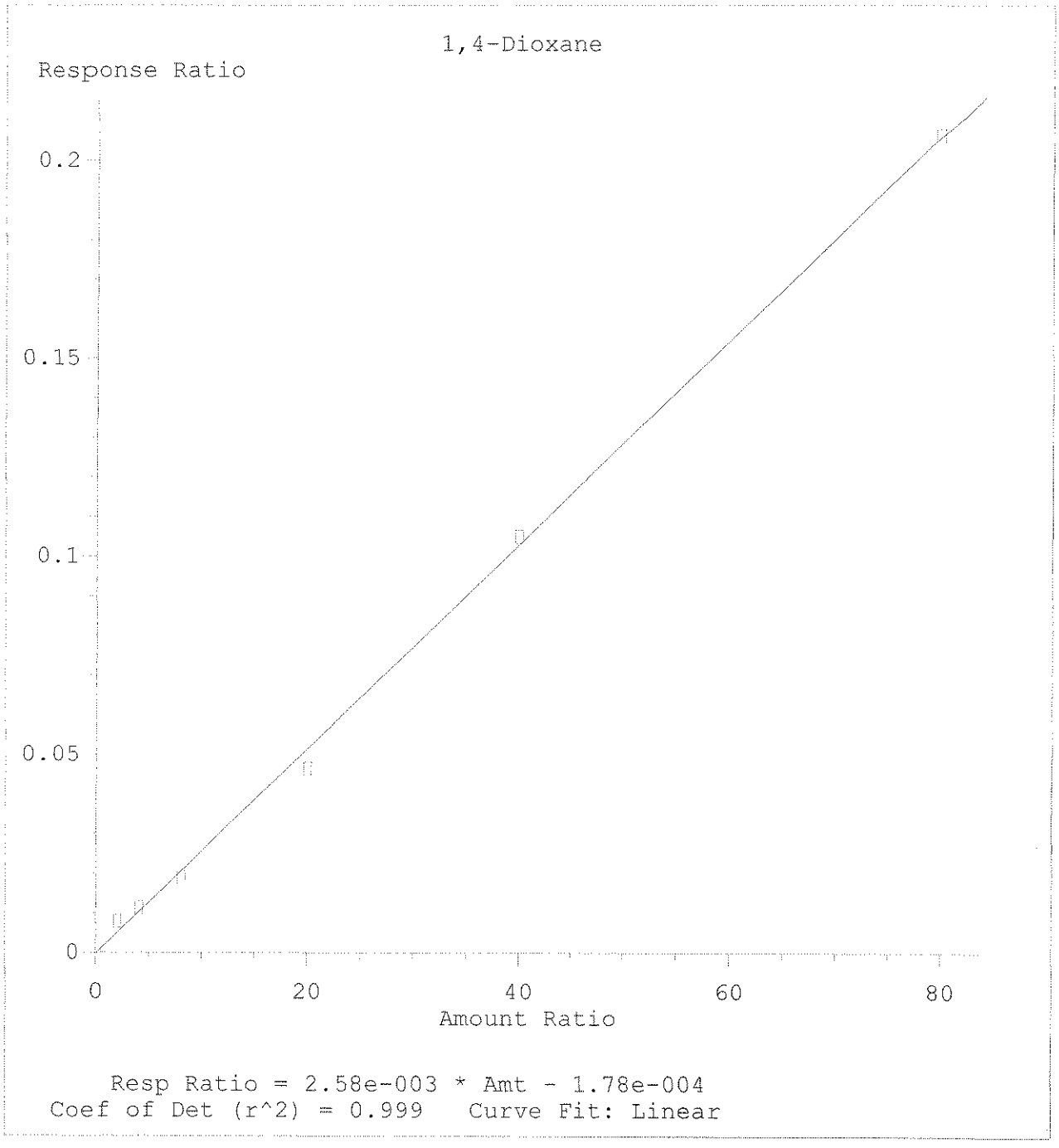
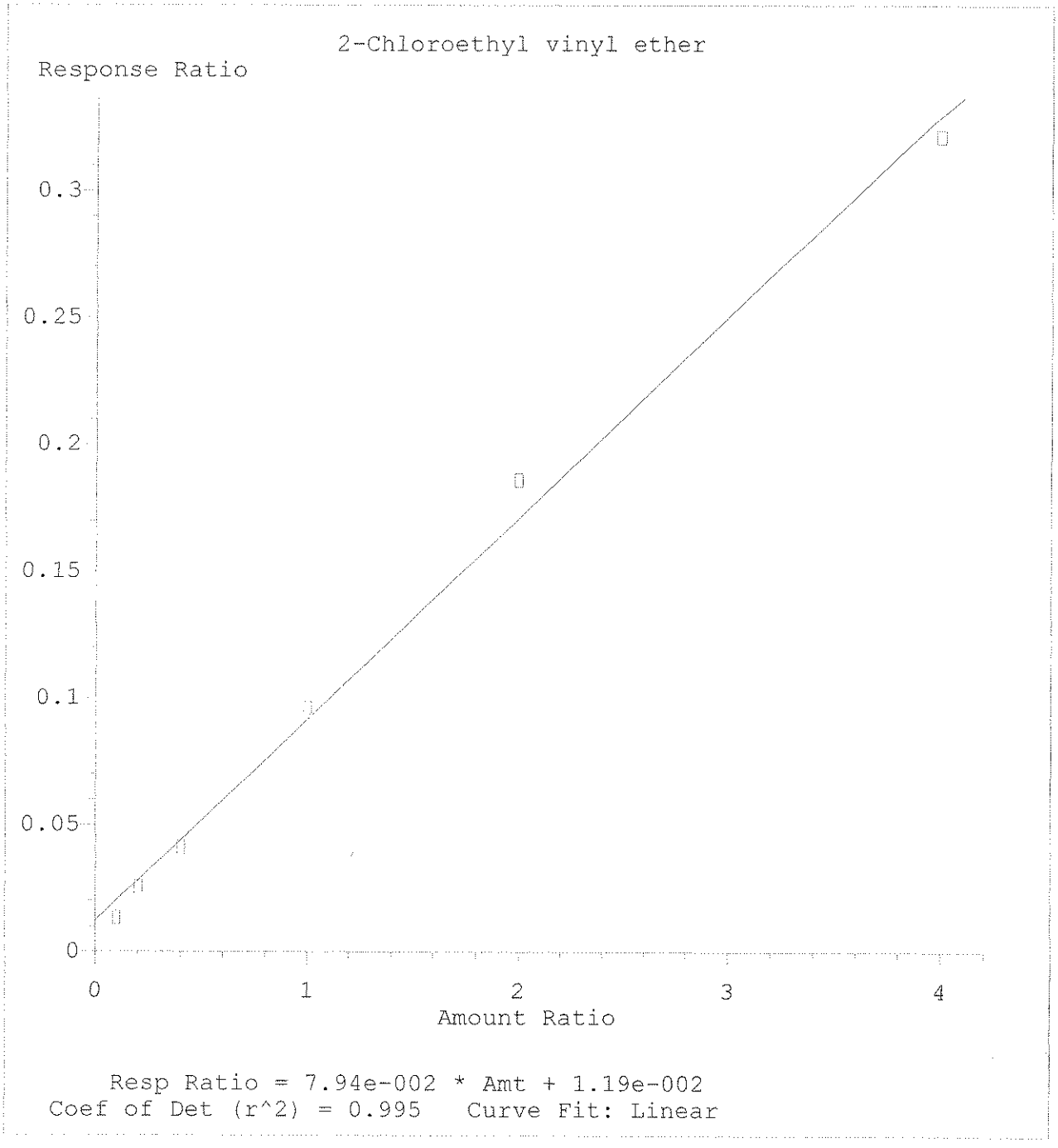


Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:25:24 2006



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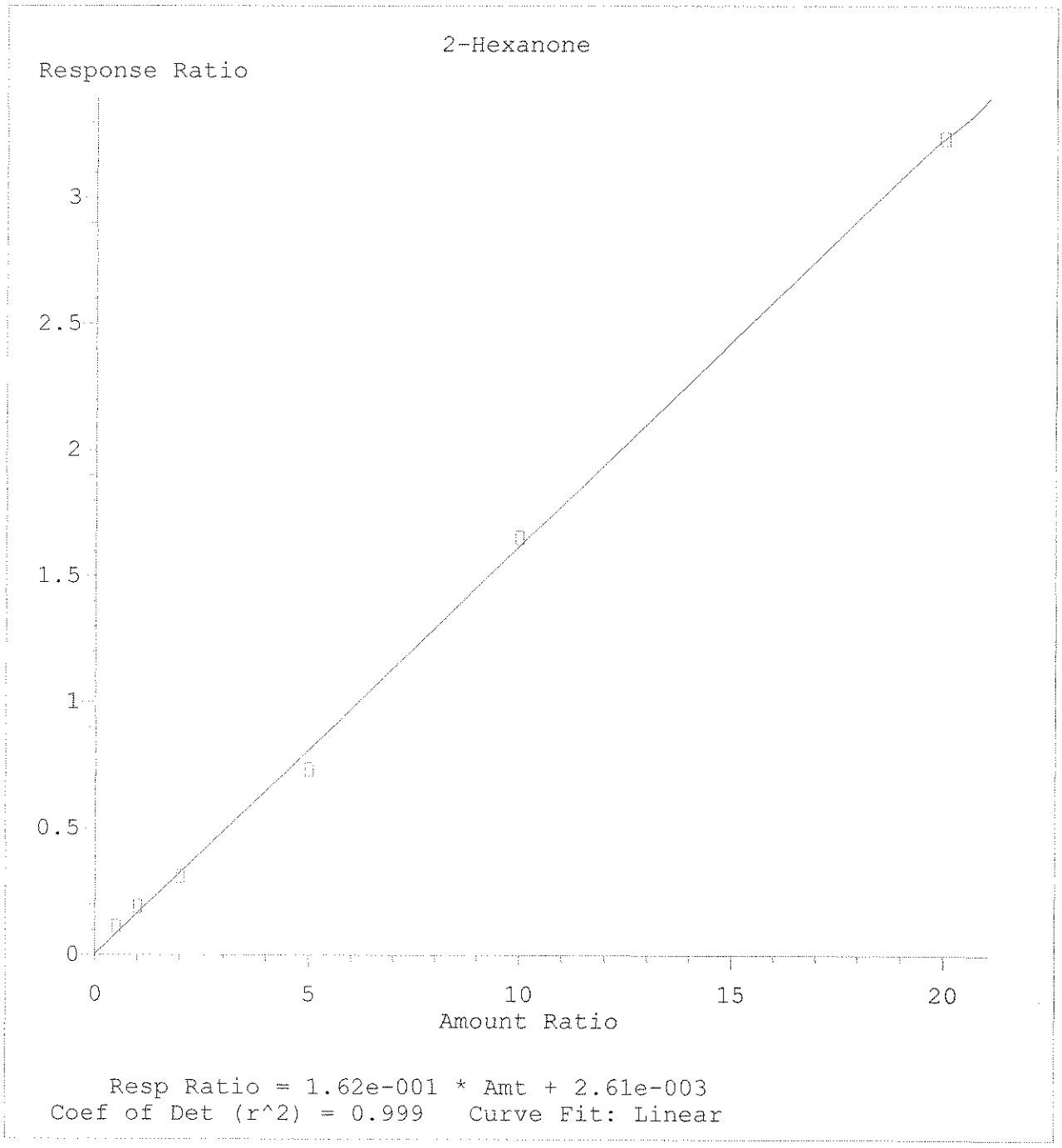

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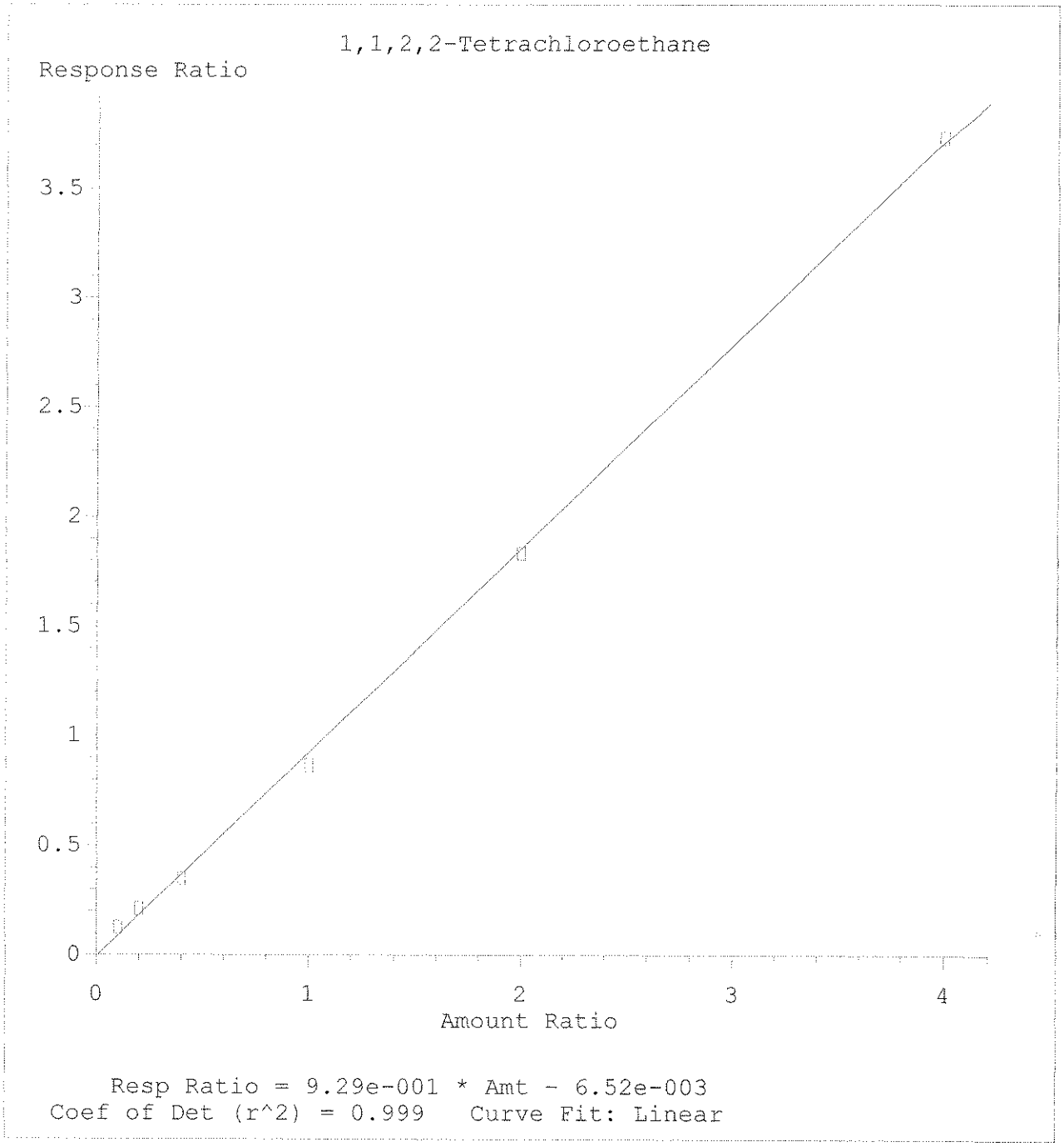
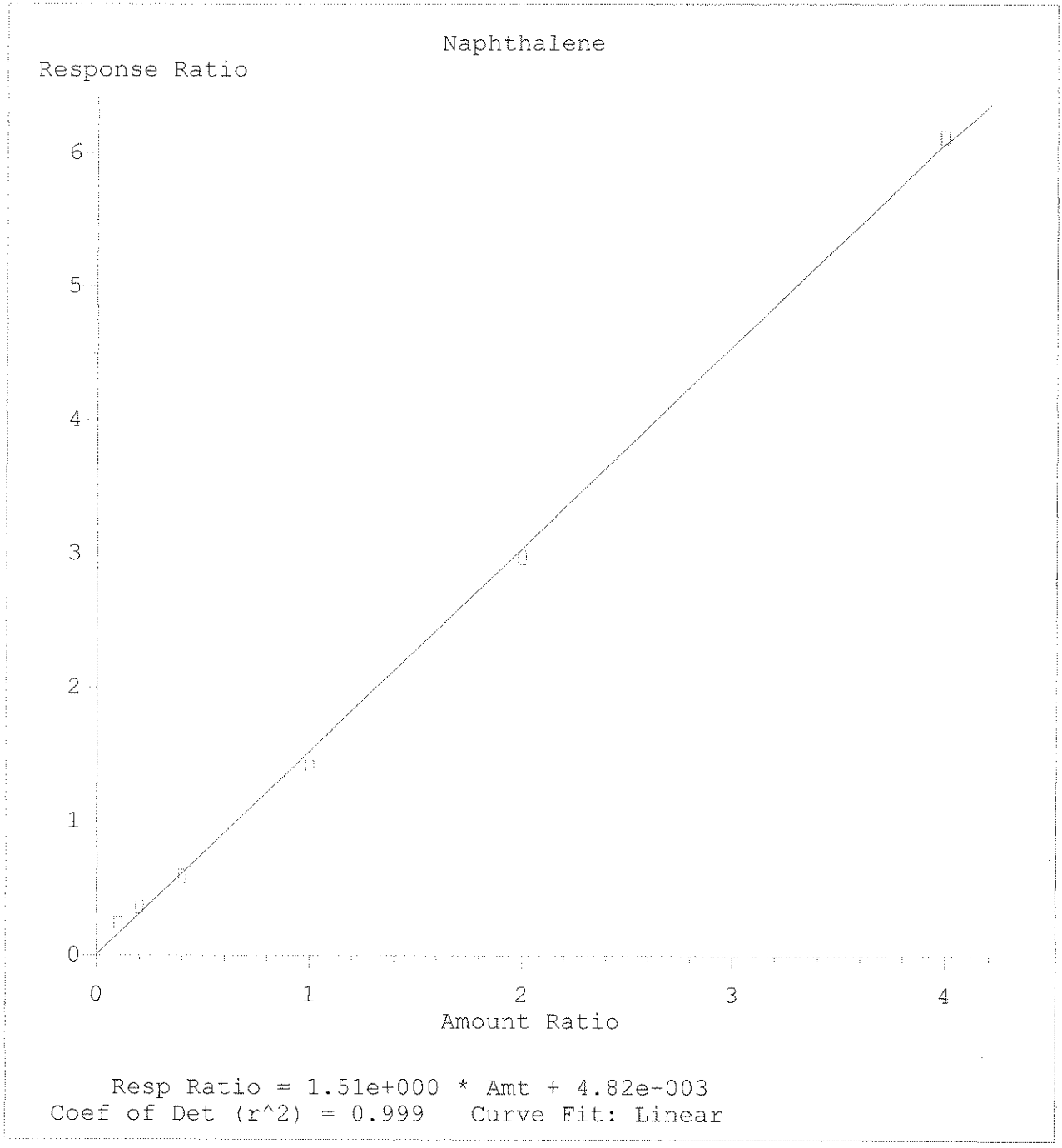
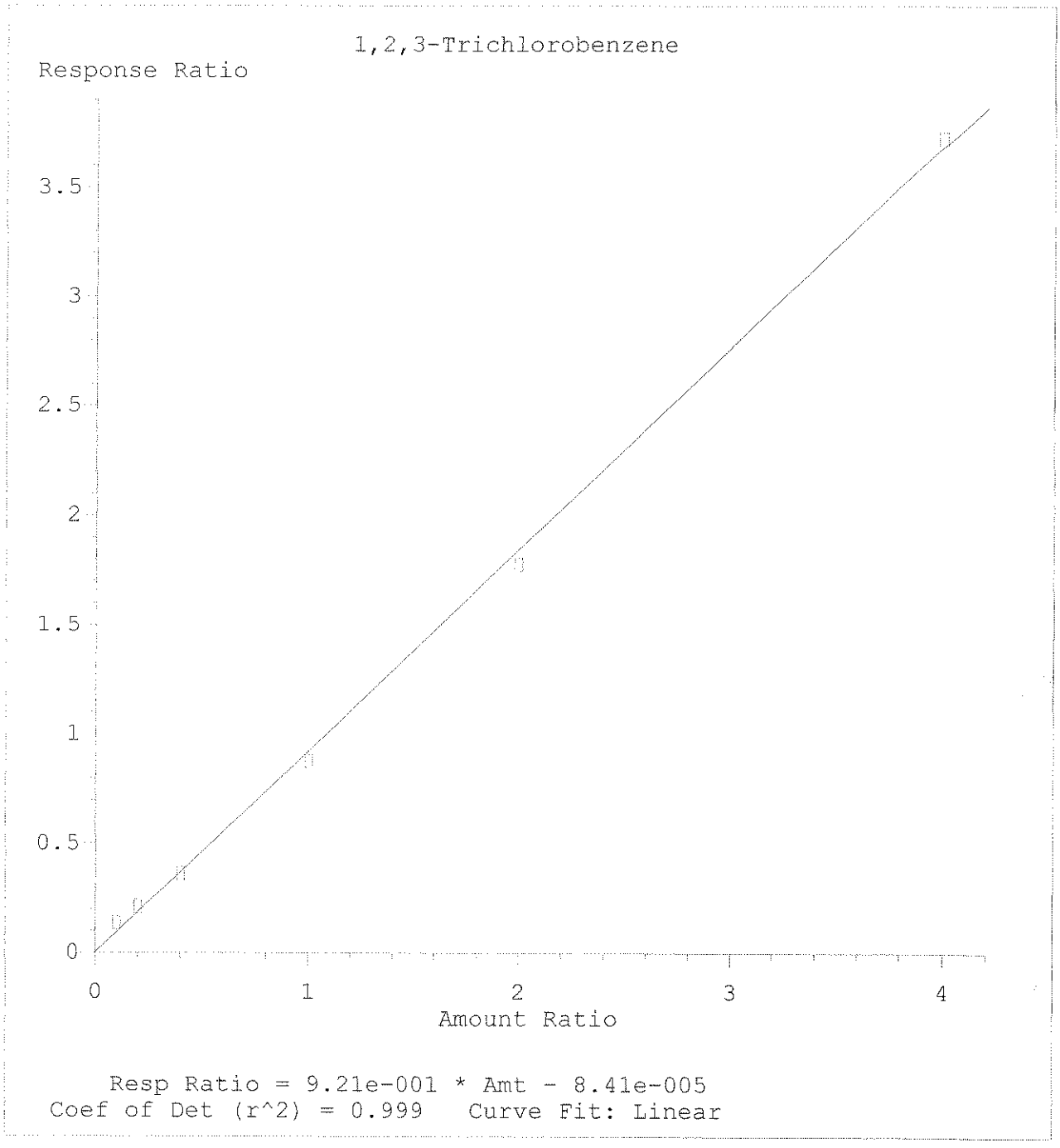
Calibration Table Last Updated: Tue Jun 06 12:25:51 2006



Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:26:03 2006



Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:26:31 2006



Method Name: C:\HPCHEM\1\METHODS\LO060606.M
Calibration Table Last Updated: Tue Jun 06 12:26:38 2006

ANALYSIS SEQUENCE

BPF0070

Instrument: VMS4

Calibnration ID: ~~0606010~~ C060606

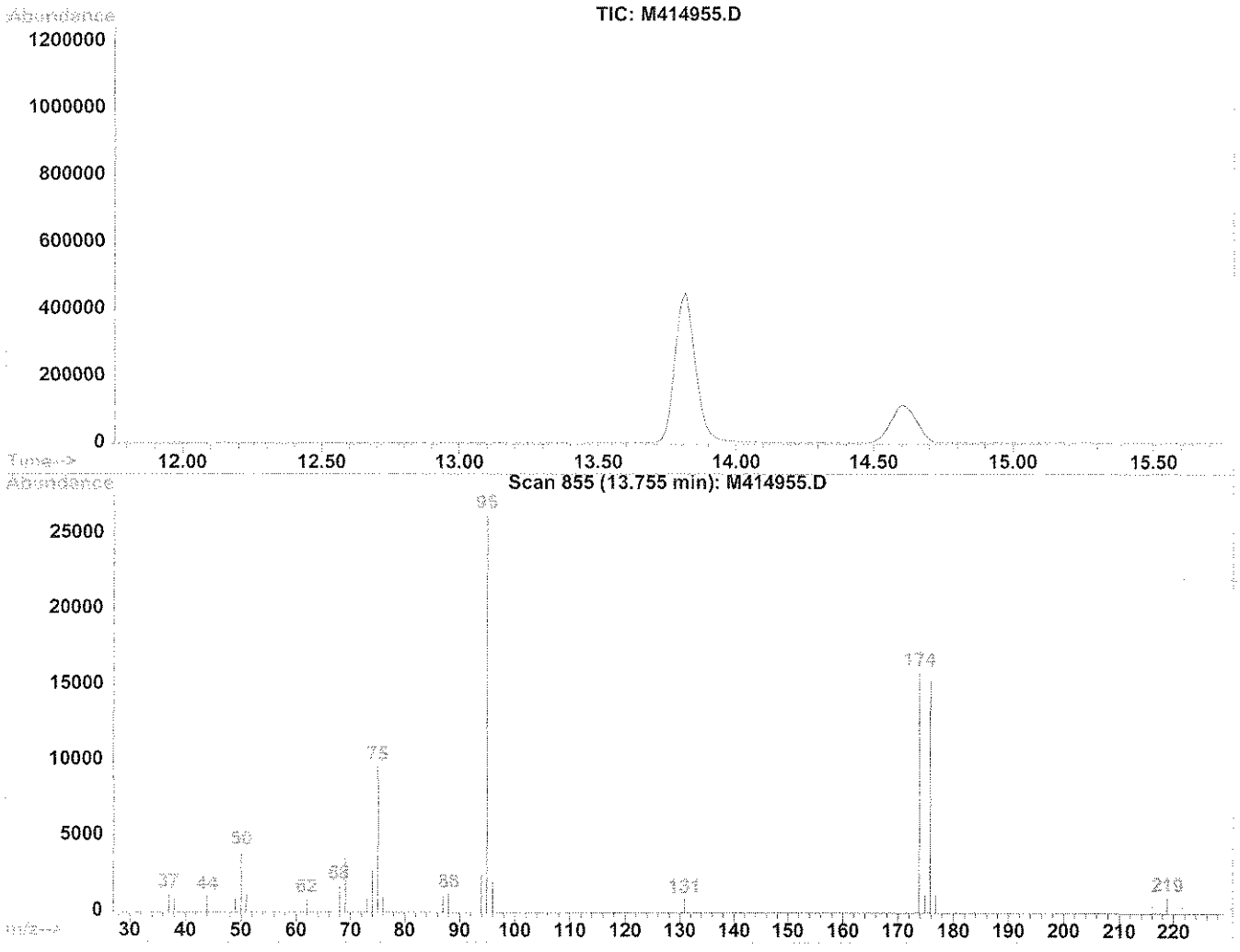
Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0070-TUN1	QC		1		6F08051		
BPF0070-CCV1	QC		2		6F08052	6E24035	
BF60811-BS1	QC		3			6E24035	
BF60811-BSD1	QC		4			6E24035	
BF60811-BLK1	QC		5			6E24035	
0606078-01	)C: x5035/8260 ppb Low Le	F	6			6E24035	MACTEC Engineering & Consulting, In
0606078-02	)C: x5035/8260 ppb Low Le	F	7			6E24035	MACTEC Engineering & Consulting, In
0606078-05	)C: x5035/8260 ppb Low Le	F	8			6E24035	MACTEC Engineering & Consulting, In
0606113-03	)C: x5035/8260 ppb Low Le	F	9			6E24035	MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

BFB

Data File : Q:/VOA/MS4_MH/MH0606/MH060806\M414955.D Vial: 1
Acq On : 8 Jun 2006 8:38 am Operator: MD
Sample : BPF0070-TUN1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010



Spectrum Information: Scan 855

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.3	4032	PASS
75	95	30	60	36.7	9673	PASS
95	95	100	100	100.0	26336	PASS
96	95	5	9	7.6	2003	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	60.4	15902	PASS
175	174	5	9	7.3	1160	PASS
176	174	95	101	96.7	15376	PASS
177	176	5	9	7.7	1185	PASS

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH060806\M414956.D Vial: 2
Acq On : 8 Jun 2006 9:08 am Operator: MD
Sample : BPF0070-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	102	0.01
2		Dichlorodifluoromethane	0.333	0.297	10.8	97	0.00
3		Chloromethane	0.158	0.143	9.5	102	0.00
4		Vinyl Chloride	0.174	0.159	8.6	100	0.01
5		Bromomethane	0.160	0.135	15.6	93	0.01
6		Chloroethane	0.084	0.075	10.7	90	0.02
7		Trichlorofluoromethane	0.584	0.520	11.0	98	0.00
8		Diethyl ether	0.105	0.095	9.5	99	0.01
9		Acrolein	0.021	0.020	4.8	108	0.02
10		1,1,2-Trichloro-1,2,2-trifl	0.575	0.517	10.1	97	0.01
11		Acetone	0.009	0.009	0.0	104	0.01
12		Iodomethane	0.572	0.551	3.7	104	0.00
13		Carbon Disulfide	0.622	0.557	10.5	98	0.01
14		1,1-Dichloroethene	0.247	0.223	9.7	99	0.00
15		Allyl Chloride	0.248	0.225	9.3	98	0.01
16		Methyl Acetate	0.099	0.093	6.1	107	0.00
17		Methylene Chloride	0.259	0.200	22.8	93	0.02
18		Tertiary-butyl Alcohol	0.019	0.020	-5.3	139	0.02
19		Methyl tert-Butyl Ether	0.425	0.420	1.2	108	0.00
20		Acrylonitrile	0.036	0.039	-8.3	121	0.01
21		trans-1,2-Dichloroethene	0.285	0.285	0.0	110	0.01
22		1,1-Dichloroethane	0.456	0.414	9.2	99	0.01
23		Chloroprene	0.277	0.251	9.4	98	0.01
24		Vinyl Acetate	0.692	0.634	8.4	101	0.01
25		Di-isopropyl ether	0.680	0.616	9.4	99	0.01
26		Ethyl tertiary-butyl ether	0.624	0.559	10.4	98	0.01
27		2-Butanone	0.018	0.018	0.0	110	0.01
28		cis-1,2 Dichloroethene	0.322	0.290	9.9	98	0.01
29		2,2-Dichloropropane	0.390	0.351	10.0	98	0.01
30		Methyl Acrylate	0.185	0.174	5.9	106	0.01
31		Methacrylonitrile	0.108	0.099	8.3	110	0.01
32		Bromochloromethane	0.241	0.216	10.4	97	0.01
33		Tetrahydrofuran	0.048	0.049	-2.1	112	0.02
34		Chloroform	0.574	0.513	10.6	98	0.01
35		1,1,1-Trichloroethane	0.560	0.499	10.9	98	0.01
36	S	Dibromofluoromethane(SURR)	0.758	0.662	12.7	97	0.01
37		Cyclohexane	0.313	0.285	8.9	97	0.03
38		1-Chlorobutane	0.412	0.364	11.7	99	0.03
39		1,1-Dichloropropene	0.392	0.351	10.5	99	0.01
40		Carbon Tetrachloride	0.614	0.534	13.0	96	0.01
41		Benzene	0.707	0.636	10.0	99	0.03
42	S	1,2-Dichloroethane-d4(SURR)	0.246	0.218	11.4	99	0.03

(#) = Out of Range

Data File : Q:/VOA/MS4_MH/MH0606/MH060806\M414956.D Vial: 2
Acq On : 8 Jun 2006 9:08 am Operator: MD
Sample : BPF0070-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		1,2-Dichloroethane	0.257	0.231	10.1	98	0.01
44		Tertiary-amyl methyl ether	0.571	0.518	9.3	99	0.01
45		Trichloroethene	0.414	0.372	10.1	98	0.01
46		Methyl Cyclohexane	0.400	0.362	9.5	98	0.01
47		1,2-Dichloropropane	0.285	0.256	10.2	98	0.01
48		Dibromomethane	0.337	0.303	10.1	98	0.03
49		1,4-Dioxane	0.003	0.003	0.0	118	0.02
50		Methyl Methacrylate	0.181	0.166	8.3	101	0.01
51		Bromodichloromethane	0.587	0.529	9.9	97	0.03
52		2-Nitropropane	0.048	0.046	4.2	111	0.01
53		2-Chloroethyl vinyl ether	0.105	0.092	12.4	98	0.02
54		4-Methyl-2-Pentanone	0.086	0.084	2.3	112	0.01
55		cis-1,3-Dichloropropene	0.436	0.399	8.5	98	0.01
56		Toluene	0.545	0.491	9.9	98	0.01
57		trans-1,3-Dichloropropene	0.363	0.337	7.2	100	0.01
58		1,1,2-Trichloroethane	0.246	0.228	7.3	102	0.01
59	I	Chlorobenzene-d5	1.000	1.000	0.0	101	0.01
60	S	Toluene-d8 (SURR)	1.083	0.966	10.8	97	0.01
61		2-Hexanone	0.174	0.173	0.6	120	0.02
62		Ethyl Methacrylate	0.380	0.360	5.3	105	0.01
63		1,3-Dichloropropane	0.462	0.420	9.1	99	0.01
64		Tetrachloroethene	0.490	0.441	10.0	98	0.01
65		Dibromochloromethane	0.797	0.736	7.7	100	0.01
66		1,2-Dibromoethane	0.607	0.552	9.1	99	0.01
67		1-Chlorohexane	0.516	0.463	10.3	98	0.00
68		Chlorobenzene	0.931	0.845	9.2	98	0.01
69		1,1,1,2-Tetrachloroethane	0.543	0.489	9.9	100	0.01
70		Ethylbenzene	1.292	1.178	8.8	98	0.01
71		Xylene P,M	0.534	0.483	9.6	98	0.01
72		Xylene O	0.508	0.462	9.1	99	0.01
73		Styrene	0.868	0.806	7.1	100	0.01
74		Bromoform	0.583	0.576	1.2	108	0.01
75		cis-1,4-Dichloro-2-butene	0.115	0.121	-5.2	111	0.01
76	S	Bromofluorobenzene (SURR)	0.733	0.684	6.7	101	0.01
77	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	101	0.01
78		Isopropylbenzene	2.587	2.343	9.4	99	0.01
79		Trans-1,4-Dichloro-2-Butene	0.155	0.162	-4.5	113	0.01
80		1,2,3-Trichloropropane	0.748	0.781	-4.4	121	0.01
81		Bromobenzene	0.910	0.846	7.0	101	0.01
82		1,1,2,2-Tetrachloroethane	0.982	0.974	0.8	114	0.01

(#) = Out of Range

Data File : Q:/VOA/MS4_MH/MH0606/MH060806\M414956.D Vial: 2
Acq On : 8 Jun 2006 9:08 am Operator: MD
Sample : BPF0070-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	n-Propylbenzene	3.314	3.171	4.3	101	0.01
84	2-Chlorotoluene	1.625	1.402	13.7	99	0.01
85	4-Chlorotoluene	2.186	2.033	7.0	102	0.01
86	1,3,5-Trimethylbenzene	2.128	1.951	8.3	100	0.01
87	Pentachloroethane	2.994	2.786	6.9	101	0.01
88	tert-Butylbenzene	2.994	2.786	6.9	101	0.01
89	1,2,4-Trimethylbenzene	2.152	1.982	7.9	101	0.01
90	sec-Butylbenzene	3.215	2.962	7.9	101	0.01
91	1,3 Dichlorobenzene	1.545	1.449	6.2	102	0.01
92	4-Isopropyltoluene	2.609	2.411	7.6	101	0.01
93	1,4 Dichlorobenzene	1.612	1.504	6.7	102	0.01
94	n-Butylbenzene	2.333	2.184	6.4	101	0.01
95	1,2 Dichlorobenzene	1.404	1.325	5.6	104	0.01
96	Hexachloroethane	0.993	0.939	5.4	102	0.03
97	1,2-Dibromo-3-Chloropropane	0.174	0.192	-10.3	123	0.02
98	1,2,4-Trichlorobenzene	1.170	1.095	6.4	104	0.02
99	Hexachlorobutadiene	0.834	0.777	6.8	102	0.01
100	Naphthalene	1.681	1.560	7.2	112	0.02
101	1,2,3-Trichlorobenzene	1.006	0.929	7.7	107	0.02

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH060806\M414956.D Vial: 2
Acq On : 8 Jun 2006 9:08 am Operator: MD
Sample : BPF0070-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 8 9:47 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.27	96	4378894	25.00	ug/l	0.01
59) Chlorobenzene-d5	11.58	117	3762626	25.00	ug/l	0.01
77) 1,4 Dichlorobenzene-D4	16.00	152	2166598	25.00	ug/l	0.01
System Monitoring Compounds						
36) Dibromofluoromethane(SURR)	5.18	111	2898556	21.82	ug/l	0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 87.28%			
42) 1,2-Dichloroethane-d4(SURR	5.70	65	954004	22.16	ug/l	0.03
Spiked Amount 25.000	Range 70 - 130		Recovery = 88.64%			
60) Toluene-d8 (SURR)	9.01	98	3636558	22.31	ug/l	0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 89.24%			
76) Bromofluorobenzene (SURR)	13.80	95	2572921	23.31	ug/l	0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 93.24%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.21	85	1300356	22.28	ug/l	100
3) Chloromethane	1.36	50	624907	22.52	ug/l	98
4) Vinyl Chloride	1.42	62	695903	22.89	ug/l	99
5) Bromomethane	1.64	94	590883	21.14	ug/l	100
6) Chloroethane	1.71	64	328894	23.83	ug/l	99
7) Trichlorofluoromethane	1.89	101	2278518	22.28	ug/l	100
8) Diethyl ether	2.15	59	414106	22.47	ug/l	98
9) Acrolein	2.25	56	86777	24.00	ug/l	96
10) 1,1,2-Trichloro-1,2,2-trif	2.32	101	2265598	22.50	ug/l	98
11) Acetone	2.40	58	188499	113.37	ug/l	95
12) Iodomethane	2.44	142	2411254	24.05	ug/l	99
13) Carbon Disulfide	2.50	76	2439051	22.37	ug/l	99
14) 1,1-Dichloroethene	2.31	96	976040	22.57	ug/l	96
15) Allyl Chloride	2.65	41	986217	22.75	ug/l	99
16) Methyl Acetate	2.70	43	405388	24.54	ug/l	97
17) Methylene Chloride	2.79	84	875387	21.93	ug/l	100
18) Tertiary-butyl Alcohol	2.99	59	446201	151.64	ug/l	98
19) Methyl tert-Butyl Ether	3.10	73	1836983	24.70	ug/l	99
20) Acrylonitrile	3.07	53	169240	26.50	ug/l	94
21) trans-1,2-Dichloroethene	3.07	96	1248827	25.00	ug/l	100
22) 1,1-Dichloroethane	3.57	63	1810922	22.65	ug/l	100
23) Chloroprene	3.69	53	1100308	22.67	ug/l	99
24) Vinyl Acetate	3.69	43	2777196	22.91	ug/l	100
25) Di-isopropyl ether	3.72	45	2696972	22.64	ug/l	100
26) Ethyl tertiary-butyl ether	4.26	59	2448860	22.39	ug/l	99
27) 2-Butanone	4.50	72	387639	122.58	ug/l	95
28) cis-1,2 Dichloroethene	4.41	96	1270592	22.54	ug/l	99

(#) = qualifier out of range (m) = manual integration

Data File : Q:/VOA/MS4_MH/MH0606/MH060806\M414956.D Vial: 2
Acq On : 8 Jun 2006 9:08 am Operator: MD
Sample : BPF0070-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 8 9:47 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) 2,2-Dichloropropane	4.39	77	1537357	22.50 ug/l	100
30) Methyl Acrylate	4.65	55	761918	23.50 ug/l	99
31) Methacrylonitrile	4.81	41	433976	23.02 ug/l	100
32) Bromochloromethane	4.78	128	945993	22.37 ug/l	99
33) Tetrahydrofuran	4.87	42	214700	25.34 ug/l	94
34) Chloroform	4.93	83	2246223	22.36 ug/l	99
35) 1,1,1-Trichloroethane	5.17	97	2186011	22.27 ug/l	99
37) Cyclohexane	5.24	56	1248871	22.79 ug/l	99
38) 1-Chlorobutane	5.38	56	1594577	22.09 ug/l	99
39) 1,1-Dichloropropene	5.44	75	1538502	22.41 ug/l	99
40) Carbon Tetrachloride	5.42	117	2336552	21.72 ug/l	100
41) Benzene	5.78	78	2784822	22.50 ug/l	100
43) 1,2-Dichloroethane	5.82	62	1013210	22.49 ug/l	98
44) Tertiary-amyl methyl ether	6.05	73	2268530	22.67 ug/l	98
45) Trichloroethene	6.88	95	1630723	22.50 ug/l	97
46) Methyl Cyclohexane	7.16	83	1585692	22.63 ug/l	99
47) 1,2-Dichloropropane	7.25	63	1122887	22.49 ug/l	100
48) Dibromomethane	7.44	93	1327130	22.48 ug/l	96
49) 1,4-Dioxane	7.55	88	235580	523.25 ug/l	98
50) Methyl Methacrylate	7.59	41	725493	22.86 ug/l	99
51) Bromodichloromethane	7.77	83	2314315	22.53 ug/l	100
52) 2-Nitropropane	8.19	43	200339	24.02 ug/l	94
53) 2-Chloroethyl vinyl ether	8.38	63	404892	25.37 ug/l	99
54) 4-Methyl-2-Pentanone	8.92	58	1841198	121.98 ug/l	97
55) cis-1,3-Dichloropropene	8.56	75	1745137	22.87 ug/l	98
56) Toluene	9.13	92	2149131	22.52 ug/l	98
57) trans-1,3-Dichloropropene	9.59	75	1474640	23.20 ug/l	99
58) 1,1,2-Trichloroethane	9.88	83	999221	23.16 ug/l	98
61) 2-Hexanone	10.42	43	3256777	133.50 ug/l	99
62) Ethyl Methacrylate	9.86	69	1353824	23.64 ug/l	96
63) 1,3-Dichloropropane	10.17	76	1580106	22.71 ug/l	100
64) Tetrachloroethene	10.08	164	1658738	22.47 ug/l	99
65) Dibromochloromethane	10.55	129	2767449	23.08 ug/l	100
66) 1,2-Dibromoethane	10.70	107	2075523	22.71 ug/l	98
67) 1-Chlorohexane	11.70	91	1741613	22.45 ug/l	98
68) Chlorobenzene	11.64	112	3177880	22.69 ug/l	99
69) 1,1,1,2-Tetrachloroethane	11.82	131	1840893	22.51 ug/l	99
70) Ethylbenzene	11.89	91	4432329	22.79 ug/l	100
71) Xylene P,M	12.13	106	3637848	45.27 ug/l	98
72) Xylene O	12.85	106	1736784	22.73 ug/l	98
73) Styrene	12.88	104	3030804	23.19 ug/l	99
74) Bromoform	13.16	173	2165722	24.68 ug/l	99

(#) = qualifier out of range (m) = manual integration

Data File : Q:/VOA/MS4_MH/MH0606/MH060806\M414956.D Vial: 2
Acq On : 8 Jun 2006 9:08 am Operator: MD
Sample : BPF0070-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 8 9:47 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75)	cis-1,4-Dichloro-2-butene	13.75	75	454542m	26.20 ug/l	
78)	Isopropylbenzene	13.56	105	5076214	22.64 ug/l	100
79)	Trans-1,4-Dichloro-2-Buten	14.29	53	350304	26.02 ug/l	99
80)	1,2,3-Trichloropropane	14.20	75	1691747	26.08 ug/l	99
81)	Bromobenzene	14.04	156	1833878	23.26 ug/l	100
82)	1,1,2,2-Tetrachloroethane	14.17	83	2109804	26.39 ug/l	100
83)	n-Propylbenzene	14.35	91	6870582	23.92 ug/l	100
84)	2-Chlorotoluene	14.42	91	3037808	21.57 ug/l	99
85)	4-Chlorotoluene	14.66	91	4404008	23.24 ug/l	99
86)	1,3,5-Trimethylbenzene	14.71	105	4226835	22.92 ug/l	100
87)	Pentachloroethane	15.30	119	6035776	23.26 ug/l	99
88)	tert-Butylbenzene	15.30	119	6035776	23.26 ug/l	99
89)	1,2,4-Trimethylbenzene	15.41	105	4293217	23.02 ug/l	100
90)	sec-Butylbenzene	15.73	105	6416801	23.03 ug/l	100
91)	1,3 Dichlorobenzene	15.87	146	3138860	23.44 ug/l	99
92)	4-Isopropyltoluene	16.05	119	5222973	23.10 ug/l	99
93)	1,4 Dichlorobenzene	16.05	146	3259563	23.33 ug/l	100
94)	n-Butylbenzene	16.82	91	4732140	23.41 ug/l	100
95)	1,2 Dichlorobenzene	16.73	146	2869682	23.59 ug/l	100
96)	Hexachloroethane	17.21	117	2035221	23.66 ug/l	98
97)	1,2-Dibromo-3-Chloropropan	18.28	75	416298	27.57 ug/l	95
98)	1,2,4-Trichlorobenzene	20.18	180	2372887	23.40 ug/l	99
99)	Hexachlorobutadiene	20.59	225	1683590	23.29 ug/l	99
100)	Naphthalene	20.63	128	3380628	25.69 ug/l	100
101)	1,2,3-Trichlorobenzene	21.03	180	2013807	25.24 ug/l	99

(#) = qualifier out of range (m) = manual integration

ANALYSIS SEQUENCE

BPF0082

Instrument: VMS4

Calibnration ID: ~~0606010~~ L060600 6

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0082-TUN1	QC		1		6F09036		
BPF0082-CCV1	QC		2		6F09037	6E24035	
BF60918-BS1	QC		3			6E24035	
BF60918-BSD1	QC		4			6E24035	
BF60918-BLK1	QC		5			6E24035	
0606113-05	OC: x5035/8260 ppb Low Lev	F	6			6E24035	MACTEC Engineering & Consulting, In
0606136-01	OC: 5035/8260 ppb DoD Lo	D	7			6E24035	RC & D
0606136-02	OC: 5035/8260 ppb DoD Lo	D	8			6E24035	RC & D
0606136-03	OC: 5035/8260 ppb DoD Lo	D	9			6E24035	RC & D

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/8/06	2	M4 14956	BLF0070-CCV1	1006606	6F08052	mo
	3	M4 57	BF60811-BS1		6F08053	
	4	M4 58	BF60811-BSD1		6F08053	
	5	M4 59	Test Blk			
	6	M4 60	BF60811-BLK1			
	7	M4 61	0606113-03		5.6/10 RR-ISs out D3952	
	8	M4 62	0606078-01		6.9/10 D2841	
	9	M4 63	-02		6.1/10 D3178	
	10	M4 64	-05		6.2/10 D2876	
	11	M4 65	-77		2.8/10 D2852	
6/8/06	12	M4 66	0606113-03	1006606	6.6/10 D3951	mo
6/9/06	1	M4 67	BLF0082-TCV1		6F09036	
	2	M4 68	BLF0082-CCV1		6F09037	
	3	M4 69	BF60918-BS1		6F09035	
	4	M4 70	BF60918-BSD1		6F09038	
	5	M4 71	Test Blk			
6/9/06	6	M4 72	BF60918-BLK1	1006606		mo

Run Sequence Confirmation

Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6E24033

On-column IS: 6E24035

ESS LABORATORY MS-4 RUN LOG

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/9/06	7	M4 14973	0606113-08	L060606	5/10 D3949	~
↓	8	M4 77	0606136-01	↓	8.6/10 6/9/06 ~~D3~~ D2837	↓
↓	9	M4 75	-02	↓	8.2/10 D2838	↓
6/9/06	10	M4 76	-03	L060606	7.8/10 D2860	~
		M4				
		M4				
		M4				
		M4				
		M4				
		M4				
		M4				
		M4				
		M4				
		M4				
		M4				
		M4				

Run Sequence Confirmation

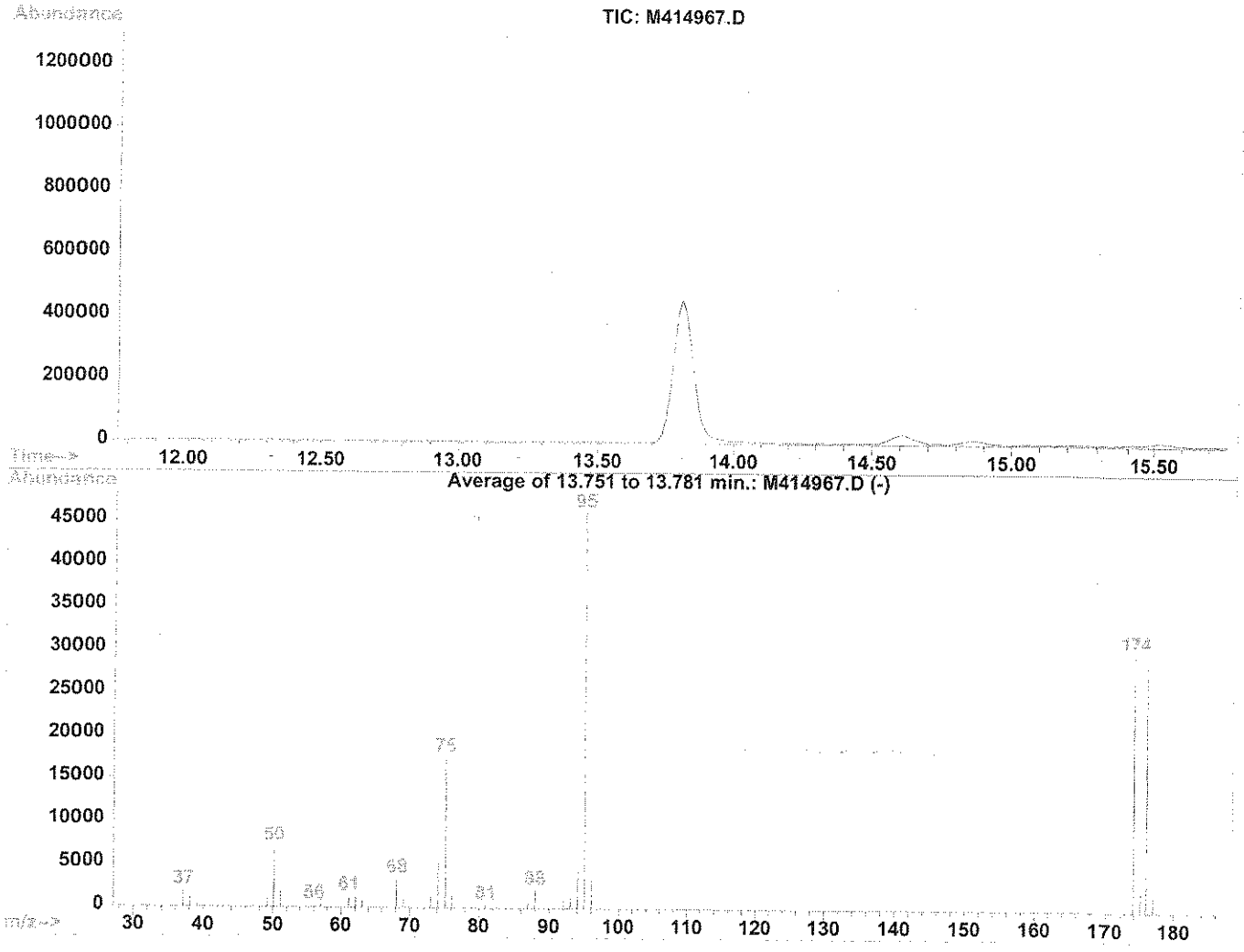
Control Number 20.0023-0601A

All Standards must be noted with a primary or secondary ID

Surrogate: 6E24033

On-column IS: 6E24035

Data File : Q:/VOA/MS4_MH/MH0606/MH060906\M414967.D Vial: 1
Acq On : 9 Jun 2006 8:33 am Operator: MD
Sample : BPF0082-TUN1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010



Spectrum Information: Average of 13.751 to 13.781 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.2	6986	PASS
75	95	30	60	37.9	17442	PASS
95	95	100	100	100.0	46040	PASS
96	95	5	9	7.2	3329	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	100	65.0	29938	PASS
175	174	5	9	8.2	2452	PASS
176	174	95	101	97.3	29119	PASS
177	176	5	9	6.8	1974	PASS

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH060906\M414968.D Vial: 2
Acq On : 9 Jun 2006 9:02 am Operator: MD
Sample : BPF0082-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	98	0.01
2		Dichlorodifluoromethane	0.333	0.315	5.4	100	0.01
3		Chloromethane	0.158	0.152	3.8	105	0.00
4		Vinyl Chloride	0.174	0.167	4.0	101	0.01
5		Bromomethane	0.160	0.147	8.1	99	0.01
6		Chloroethane	0.084	0.084	0.0	97	0.01
7		Trichlorofluoromethane	0.584	0.548	6.2	100	0.01
8		Diethyl ether	0.105	0.098	6.7	99	0.01
9		Acrolein	0.021	0.020	4.8	105	0.01
10		1,1,2-Trichloro-1,2,2-trifl	0.575	0.543	5.6	99	0.01
11		Acetone	0.009	0.009	0.0	103	0.01
12		Iodomethane	0.572	0.569	0.5	104	0.01
13		Carbon Disulfide	0.622	0.583	6.3	100	0.01
14		1,1-Dichloroethene	0.247	0.232	6.1	99	0.01
15		Allyl Chloride	0.248	0.238	4.0	101	0.01
16		Methyl Acetate	0.099	0.095	4.0	107	0.00
17		Methylene Chloride	0.259	0.214	17.4	96	0.01
18		Tertiary-butyl Alcohol	0.019	0.020	-5.3	130	0.00
19		Methyl tert-Butyl Ether	0.425	0.432	-1.6	108	0.00
20		Acrylonitrile	0.036	0.040	-11.1	121	0.00
21		trans-1,2-Dichloroethene	0.285	0.300	-5.3	112	0.01
22		1,1-Dichloroethane	0.456	0.433	5.0	101	0.01
23		Chloroprene	0.277	0.263	5.1	100	0.01
24		Vinyl Acetate	0.692	0.656	5.2	101	0.01
25		Di-isopropyl ether	0.680	0.645	5.1	101	0.03
26		Ethyl tertiary-butyl ether	0.624	0.580	7.1	99	0.01
27		2-Butanone	0.018	0.018	0.0	107	0.01
28		cis-1,2 Dichloroethene	0.322	0.303	5.9	99	0.01
29		2,2-Dichloropropane	0.390	0.369	5.4	99	0.01
30		Methyl Acrylate	0.185	0.178	3.8	105	0.01
31		Methacrylonitrile	0.108	0.099	8.3	106	0.01
32		Bromochloromethane	0.241	0.224	7.1	98	0.01
33		Tetrahydrofuran	0.048	0.049	-2.1	109	0.01
34		Chloroform	0.574	0.540	5.9	100	0.03
35		1,1,1-Trichloroethane	0.560	0.524	6.4	100	0.03
36	S	Dibromofluoromethane(SURR)	0.758	0.694	8.4	99	0.01
37		Cyclohexane	0.313	0.294	6.1	97	0.03
38		1-Chlorobutane	0.412	0.393	4.6	104	0.03
39		1,1-Dichloropropene	0.392	0.369	5.9	100	0.03
40		Carbon Tetrachloride	0.614	0.564	8.1	99	0.03
41		Benzene	0.707	0.668	5.5	100	0.03
42	S	1,2-Dichloroethane-d4(SURR)	0.246	0.225	8.5	99	0.03

(#) = Out of Range

Data File : Q:/VOA/MS4_MH/MH0606/MH060906\M414968.D Vial: 2
Acq On : 9 Jun 2006 9:02 am Operator: MD
Sample : BPF0082-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
43		1,2-Dichloroethane	0.257	0.239	7.0	98	0.01
44		Tertiary-amyl methyl ether	0.571	0.540	5.4	100	0.03
45		Trichloroethene	0.414	0.391	5.6	100	0.01
46		Methyl Cyclohexane	0.400	0.383	4.3	101	0.03
47		1,2-Dichloropropane	0.285	0.271	4.9	100	0.01
48		Dibromomethane	0.337	0.316	6.2	99	0.03
49		1,4-Dioxane	0.003	0.003	0.0	108	0.01
50		Methyl Methacrylate	0.181	0.176	2.8	103	0.01
51		Bromodichloromethane	0.587	0.557	5.1	99	0.03
52		2-Nitropropane	0.048	0.046	4.2	107	0.01
53		2-Chloroethyl vinyl ether	0.105	0.101	3.8	103	0.01
54		4-Methyl-2-Pentanone	0.086	0.083	3.5	107	0.01
55		cis-1,3-Dichloropropene	0.436	0.418	4.1	100	0.03
56		Toluene	0.545	0.520	4.6	100	0.01
57		trans-1,3-Dichloropropene	0.363	0.347	4.4	100	0.01
58		1,1,2-Trichloroethane	0.246	0.233	5.3	101	0.03
59	I	Chlorobenzene-d5	1.000	1.000	0.0	98	0.03
60	S	Toluene-d8 (SURR)	1.083	1.027	5.2	100	0.03
61		2-Hexanone	0.174	0.169	2.9	113	0.03
62		Ethyl Methacrylate	0.380	0.368	3.2	103	0.01
63		1,3-Dichloropropane	0.462	0.438	5.2	100	0.01
64		Tetrachloroethene	0.490	0.463	5.5	99	0.01
65		Dibromochloromethane	0.797	0.756	5.1	100	0.01
66		1,2-Dibromoethane	0.607	0.569	6.3	99	0.01
67		1-Chlorohexane	0.516	0.500	3.1	102	0.01
68		Chlorobenzene	0.931	0.889	4.5	100	0.01
69		1,1,1,2-Tetrachloroethane	0.543	0.505	7.0	99	0.03
70		Ethylbenzene	1.292	1.237	4.3	100	0.03
71		Xylene P,M	0.534	0.511	4.3	100	0.01
72		Xylene O	0.508	0.483	4.9	100	0.01
73		Styrene	0.868	0.835	3.8	100	0.03
74		Bromoform	0.583	0.571	2.1	103	0.03
75		cis-1,4-Dichloro-2-butene	0.115	0.107	7.0	94	0.01
76	S	Bromofluorobenzene (SURR)	0.733	0.702	4.2	100	0.03
77	I	1,4 Dichlorobenzene-D4	1.000	1.000	0.0	97	0.01
78		Isopropylbenzene	2.587	2.480	4.1	100	0.01
79		Trans-1,4-Dichloro-2-Butene	0.155	0.160	-3.2	108	0.01
80		1,2,3-Trichloropropane	0.748	0.771	-3.1	115	0.01
81		Bromobenzene	0.910	0.867	4.7	100	0.01
82		1,1,2,2-Tetrachloroethane	0.982	0.956	2.6	107	0.03

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:/VOA/MS4_MH/MH0606/MH060906\M414968.D Vial: 2
Acq On : 9 Jun 2006 9:02 am Operator: MD
Sample : BPF0082-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.10min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
83	n-Propylbenzene	3.314	3.155	4.8	97	0.01
84	2-Chlorotoluene	1.625	1.607	1.1	110	0.03
85	4-Chlorotoluene	2.186	2.113	3.3	102	0.01
86	1,3,5-Trimethylbenzene	2.128	2.026	4.8	100	0.03
87	Pentachloroethane	2.994	2.892	3.4	101	0.01
88	tert-Butylbenzene	2.994	2.892	3.4	101	0.01
89	1,2,4-Trimethylbenzene	2.152	2.060	4.3	101	0.01
90	sec-Butylbenzene	3.215	3.107	3.4	102	0.01
91	1,3 Dichlorobenzene	1.545	1.471	4.8	100	0.01
92	4-Isopropyltoluene	2.609	2.509	3.8	101	0.01
93	1,4 Dichlorobenzene	1.612	1.541	4.4	101	0.01
94	n-Butylbenzene	2.333	2.289	1.9	102	0.03
95	1,2 Dichlorobenzene	1.404	1.340	4.6	101	0.03
96	Hexachloroethane	0.993	0.977	1.6	102	0.03
97	1,2-Dibromo-3-Chloropropane	0.174	0.185	-6.3	114	0.01
98	1,2,4-Trichlorobenzene	1.170	1.120	4.3	102	0.03
99	Hexachlorobutadiene	0.834	0.815	2.3	103	0.03
100	Naphthalene	1.681	1.539	8.4	106	0.03
101	1,2,3-Trichlorobenzene	1.006	0.935	7.1	104	0.01

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH060906\M414968.D Vial: 2
Acq On : 9 Jun 2006 9:02 am Operator: MD
Sample : BPF0082-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 9 11:57 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.26	96	4244056	25.00	ug/l	0.01
59) Chlorobenzene-d5	11.59	117	3632346	25.00	ug/l	0.03
77) 1,4 Dichlorobenzene-D4	16.00	152	2087137	25.00	ug/l	0.01
System Monitoring Compounds						
36) Dibromofluoromethane(SURR)	5.18	111	2943457	22.87	ug/l	0.01
Spiked Amount 25.000	Range 70 - 130		Recovery = 91.48%			
42) 1,2-Dichloroethane-d4(SURR	5.70	65	953660	22.85	ug/l	0.03
Spiked Amount 25.000	Range 70 - 130		Recovery = 91.40%			
60) Toluene-d8 (SURR)	9.02	98	3730900	23.71	ug/l	0.03
Spiked Amount 25.000	Range 70 - 130		Recovery = 94.84%			
76) Bromofluorobenzene (SURR)	13.81	95	2548209	23.91	ug/l	0.03
Spiked Amount 25.000	Range 70 - 130		Recovery = 95.64%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.22	85	1338559	23.66	ug/l	99
3) Chloromethane	1.35	50	644244	23.96	ug/l	99
4) Vinyl Chloride	1.41	62	708328	24.04	ug/l	100
5) Bromomethane	1.64	94	625909	23.10	ug/l	99
6) Chloroethane	1.71	64	356720	27.25	ug/l	98
7) Trichlorofluoromethane	1.90	101	2324059	23.45	ug/l	99
8) Diethyl ether	2.14	59	415572	23.26	ug/l	99
9) Acrolein	2.25	56	84347	24.07	ug/l	99
10) 1,1,2-Trichloro-1,2,2-trif	2.32	101	2305423	23.62	ug/l	97
11) Acetone	2.39	58	187339	116.25	ug/l	100
12) Iodomethane	2.45	142	2412748	24.83	ug/l	99
13) Carbon Disulfide	2.50	76	2473364	23.41	ug/l	100
14) 1,1-Dichloroethene	2.32	96	983850	23.47	ug/l	99
15) Allyl Chloride	2.65	41	1011777	24.08	ug/l	99
16) Methyl Acetate	2.69	43	401833	25.11	ug/l	96
17) Methylene Chloride	2.78	84	907675	23.55	ug/l	98
18) Tertiary-butyl Alcohol	2.97	59	415109	145.47	ug/l	94
19) Methyl tert-Butyl Ether	3.09	73	1832209	25.42	ug/l	99
20) Acrylonitrile	3.05	53	169741	27.42	ug/l	98
21) trans-1,2-Dichloroethene	3.06	96	1273788	26.31	ug/l	98
22) 1,1-Dichloroethane	3.57	63	1836339	23.70	ug/l	100
23) Chloroprene	3.69	53	1116013	23.72	ug/l	99
24) Vinyl Acetate	3.69	43	2785520	23.70	ug/l	99
25) Di-isopropyl ether	3.73	45	2735455	23.69	ug/l	86
26) Ethyl tertiary-butyl ether	4.25	59	2463550	23.24	ug/l	100
27) 2-Butanone	4.49	72	375903	122.64	ug/l	100
28) cis-1,2 Dichloroethene	4.40	96	1287756	23.57	ug/l	99

(#) = qualifier out of range (m) = manual integration

Data File : Q:/VOA/MS4_MH/MH0606/MH060906\M414968.D Vial: 2
Acq On : 9 Jun 2006 9:02 am Operator: MD
Sample : BPF0082-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 9 11:57 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
29) 2,2-Dichloropropane	4.39	77	1565913	23.64 ug/l	100
30) Methyl Acrylate	4.64	55	757099	24.09 ug/l	99
31) Methacrylonitrile	4.81	41	419224	22.94 ug/l	99
32) Bromochloromethane	4.78	128	952660	23.24 ug/l	96
33) Tetrahydrofuran	4.86	42	209712	25.53 ug/l	94
34) Chloroform	4.94	83	2291235	23.53 ug/l	99
35) 1,1,1-Trichloroethane	5.18	97	2222592	23.36 ug/l	99
37) Cyclohexane	5.24	56	1247503	23.49 ug/l	99
38) 1-Chlorobutane	5.37	56	1667104	23.83 ug/l	99
39) 1,1-Dichloropropene	5.45	75	1566584	23.54 ug/l	99
40) Carbon Tetrachloride	5.43	117	2393646	22.96 ug/l	100
41) Benzene	5.77	78	2834795	23.63 ug/l	100
43) 1,2-Dichloroethane	5.82	62	1016115	23.27 ug/l	98
44) Tertiary-amyl methyl ether	6.06	73	2293253	23.65 ug/l	99
45) Trichloroethene	6.87	95	1661386	23.65 ug/l	97
46) Methyl Cyclohexane	7.17	83	1625008	23.93 ug/l	99
47) 1,2-Dichloropropane	7.25	63	1149164	23.74 ug/l	100
48) Dibromomethane	7.44	93	1342481	23.46 ug/l	98
49) 1,4-Dioxane	7.54	88	217173	497.78 ug/l	98
50) Methyl Methacrylate	7.59	41	745209	24.23 ug/l	99
51) Bromodichloromethane	7.77	83	2363958	23.74 ug/l	100
52) 2-Nitropropane	8.18	43	193884	23.99 ug/l	99
53) 2-Chloroethyl vinyl ether	8.38	63	427055	27.93 ug/l	97
54) 4-Methyl-2-Pentanone	8.91	58	1763018	120.51 ug/l	96
55) cis-1,3-Dichloropropene	8.57	75	1772600	23.97 ug/l	98
56) Toluene	9.12	92	2207167	23.86 ug/l	98
57) trans-1,3-Dichloropropene	9.58	75	1474356	23.93 ug/l	98
58) 1,1,2-Trichloroethane	9.90	83	987263	23.61 ug/l	100
61) 2-Hexanone	10.43	43	3065044	130.14 ug/l	99
62) Ethyl Methacrylate	9.85	69	1335008	24.15 ug/l	94
63) 1,3-Dichloropropane	10.16	76	1590159	23.68 ug/l	99
64) Tetrachloroethene	10.07	164	1680972	23.59 ug/l	99
65) Dibromochloromethane	10.55	129	2747075	23.73 ug/l	100
66) 1,2-Dibromoethane	10.70	107	2065069	23.41 ug/l	98
67) 1-Chlorohexane	11.71	91	1817304	24.26 ug/l	99
68) Chlorobenzene	11.64	112	3227974	23.87 ug/l	99
69) 1,1,1,2-Tetrachloroethane	11.83	131	1832898	23.22 ug/l	99
70) Ethylbenzene	11.90	91	4491764	23.93 ug/l	99
71) Xylene P,M	12.13	106	3714425	47.88 ug/l	98
72) Xylene O	12.84	106	1756171	23.80 ug/l	99
73) Styrene	12.89	104	3031672	24.03 ug/l	99
74) Bromoform	13.17	173	2072822	24.47 ug/l	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:/VOA/MS4_MH/MH0606/MH060906\M414968.D Vial: 2
Acq On : 9 Jun 2006 9:02 am Operator: MD
Sample : BPF0082-CCV1 Inst : VOA_MS4
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 9 11:57 19106 Quant Results File: LO060606.RES

Quant Method : C:\HPCHEM\1\METHODS\LO060606.M (RTE Integrator)
Title : Element ID: 0606010
Last Update : Tue Jun 06 12:26:44 2006
Response via : Initial Calibration
DataAcq Meth : LO060606

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
75)	cis-1,4-Dichloro-2-butene	13.75	75	388092m	23.17 ug/l	
78)	Isopropylbenzene	13.56	105	5176189	23.97 ug/l	99
79)	Trans-1,4-Dichloro-2-Buten	14.29	53	334375	25.79 ug/l	95
80)	1,2,3-Trichloropropane	14.20	75	1608400	25.74 ug/l	98
81)	Bromobenzene	14.03	156	1810539	23.83 ug/l	97
82)	1,1,2,2-Tetrachloroethane	14.18	83	1995338	25.92 ug/l	100
83)	n-Propylbenzene	14.34	91	6584977	23.80 ug/l	99
84)	2-Chlorotoluene	14.43	91	3354500	24.73 ug/l	96
85)	4-Chlorotoluene	14.66	91	4410701	24.16 ug/l	98
86)	1,3,5-Trimethylbenzene	14.72	105	4228589	23.80 ug/l	98
87)	Pentachloroethane	15.30	119	6036599	24.15 ug/l	98
88)	tert-Butylbenzene	15.30	119	6036599	24.15 ug/l	98
89)	1,2,4-Trimethylbenzene	15.40	105	4298835	23.93 ug/l	100
90)	sec-Butylbenzene	15.73	105	6484185	24.16 ug/l	100
91)	1,3 Dichlorobenzene	15.86	146	3070568	23.80 ug/l	99
92)	4-Isopropyltoluene	16.04	119	5235959	24.04 ug/l	99
93)	1,4 Dichlorobenzene	16.04	146	3216427	23.90 ug/l	99
94)	n-Butylbenzene	16.83	91	4777709	24.53 ug/l	99
95)	1,2 Dichlorobenzene	16.74	146	2795925	23.86 ug/l	99
96)	Hexachloroethane	17.20	117	2039074	24.61 ug/l	97
97)	1,2-Dibromo-3-Chloropropan	18.27	75	386495	26.57 ug/l	93
98)	1,2,4-Trichlorobenzene	20.19	180	2336686	23.92 ug/l	99
99)	Hexachlorobutadiene	20.60	225	1701033	24.43 ug/l	100
100)	Naphthalene	20.64	128	3212842	25.34 ug/l	100
101)	1,2,3-Trichlorobenzene	21.03	180	1952374	25.40 ug/l	99

(#) = qualifier out of range (m) = manual integration

Volatile Organics Logbooks

Semi-Volatile Organics Data Package

(Soil)

Semi-Volatile Organics
Sample Data

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI024
Date Sampled: 06/07/06 10:18
Percent Solids: 77
Initial Volume: 19.1
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-01
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte		Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene		ND	ug/Kg dry	680	1	06/12/06
2-Methylnaphthalene		ND	ug/Kg dry	680	1	06/12/06
Acenaphthene		ND	ug/Kg dry	680	1	06/12/06
Acenaphthylene		**2970**	ug/Kg dry	680	1	06/12/06
Anthracene		**2340**	ug/Kg dry	680	1	06/12/06
Benzo(a)anthracene		**9670**	ug/Kg dry	680	1	06/12/06
Benzo(a)pyrene		**9540**	ug/Kg dry	680	1	06/12/06
Benzo(b)fluoranthene	E	**15300**	ug/Kg dry	680	1	06/12/06
Benzo(g,h,i)perylene		**4110**	ug/Kg dry	680	1	06/12/06
Benzo(k)fluoranthene		**9810**	ug/Kg dry	680	1	06/12/06
Chrysene		**11600**	ug/Kg dry	680	1	06/12/06
Dibenzo(a,h)Anthracene		ND	ug/Kg dry	680	1	06/12/06
Fluoranthene	E	**15700**	ug/Kg dry	680	1	06/12/06
Fluorene		**1070**	ug/Kg dry	680	1	06/12/06
Indeno(1,2,3-cd)Pyrene		**4540**	ug/Kg dry	680	1	06/12/06
Naphthalene		**1080**	ug/Kg dry	680	1	06/12/06
Phenanthrene		**11100**	ug/Kg dry	680	1	06/12/06
Pyrene	E	**18800**	ug/Kg dry	680	1	06/12/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*82 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*98 %*		*30-130*
Surrogate: Nitrobenzene-d5	*77 %*		*30-130*
Surrogate: p-Terphenyl-d14	*97 %*		*30-130*

REVISED

JUL 24 2006

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI024
Date Sampled: 06/07/06 10:18
Percent Solids: 77
Initial Volume: 19.1
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-01RE1
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	3400	5	06/13/06
2-Methylnaphthalene	ND	ug/Kg dry	3400	5	06/13/06
Acenaphthene	ND	ug/Kg dry	3400	5	06/13/06
Acenaphthylene	**3540**	ug/Kg dry	3400	5	06/13/06
Anthracene	ND	ug/Kg dry	3400	5	06/13/06
Benzo(a)anthracene	**10600**	ug/Kg dry	3400	5	06/13/06
Benzo(a)pyrene	**9610**	ug/Kg dry	3400	5	06/13/06
Benzo(b)fluoranthene	**10900**	ug/Kg dry	3400	5	06/13/06
Benzo(g,h,i)perylene	**3910**	ug/Kg dry	3400	5	06/13/06
Benzo(k)fluoranthene	**10800**	ug/Kg dry	3400	5	06/13/06
Chrysene	**11500**	ug/Kg dry	3400	5	06/13/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	3400	5	06/13/06
Fluoranthene	**17700**	ug/Kg dry	3400	5	06/13/06
Fluorene	ND	ug/Kg dry	3400	5	06/13/06
Indeno(1,2,3-cd)Pyrene	**4720**	ug/Kg dry	3400	5	06/13/06
Naphthalene	ND	ug/Kg dry	3400	5	06/13/06
Phenanthrene	**11400**	ug/Kg dry	3400	5	06/13/06
Pyrene	**21200**	ug/Kg dry	3400	5	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*94 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*100 %*		*30-130*
Surrogate: Nitrobenzene-d5	*85 %*		*30-130*
Surrogate: p-Terphenyl-d14	*105 %*		*30-130*

REVISED
JUL 24 2006

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI202
Date Sampled: 06/07/06 10:42
Percent Solids: 84
Initial Volume: 20.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-02
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	589	1	06/12/06
2-Methylnaphthalene	ND	ug/Kg dry	589	1	06/12/06
Acenaphthene	ND	ug/Kg dry	589	1	06/12/06
Acenaphthylene	ND	ug/Kg dry	589	1	06/12/06
Anthracene	ND	ug/Kg dry	589	1	06/12/06
Benzo(a)anthracene	ND	ug/Kg dry	589	1	06/12/06
Benzo(a)pyrene	ND	ug/Kg dry	589	1	06/12/06
Benzo(b)fluoranthene	ND	ug/Kg dry	589	1	06/12/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	589	1	06/12/06
Benzo(k)fluoranthene	ND	ug/Kg dry	589	1	06/12/06
Chrysene	ND	ug/Kg dry	589	1	06/12/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	589	1	06/12/06
Fluoranthene	ND	ug/Kg dry	589	1	06/12/06
Fluorene	ND	ug/Kg dry	589	1	06/12/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	589	1	06/12/06
Naphthalene	ND	ug/Kg dry	589	1	06/12/06
Phenanthrene	ND	ug/Kg dry	589	1	06/12/06
Pyrene	ND	ug/Kg dry	589	1	06/12/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*88 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*93 %*		*30-130*
Surrogate: Nitrobenzene-d5	*83 %*		*30-130*
Surrogate: p-Terphenyl-d14	*88 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI002
Date Sampled: 06/07/06 11:01
Percent Solids: 42
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-03
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	1130	1	06/13/06
2-Methylnaphthalene	ND	ug/Kg dry	1130	1	06/13/06
Acenaphthene	ND	ug/Kg dry	1130	1	06/13/06
Acenaphthylene	ND	ug/Kg dry	1130	1	06/13/06
Anthracene	**2180**	ug/Kg dry	1130	1	06/13/06
Benzo(a)anthracene	**2400**	ug/Kg dry	1130	1	06/13/06
Benzo(a)pyrene	**1710**	ug/Kg dry	1130	1	06/13/06
Benzo(b)fluoranthene	**1450**	ug/Kg dry	1130	1	06/13/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	1130	1	06/13/06
Benzo(k)fluoranthene	**1810**	ug/Kg dry	1130	1	06/13/06
Chrysene	**2610**	ug/Kg dry	1130	1	06/13/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	1130	1	06/13/06
Fluoranthene	**6590**	ug/Kg dry	1130	1	06/13/06
Fluorene	ND	ug/Kg dry	1130	1	06/13/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	1130	1	06/13/06
Naphthalene	ND	ug/Kg dry	1130	1	06/13/06
Phenanthrene	**10700**	ug/Kg dry	1130	1	06/13/06
Pyrene	**7520**	ug/Kg dry	1130	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*78 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*84 %*		*30-130*
Surrogate: Nitrobenzene-d5	*72 %*		*30-130*
Surrogate: p-Terphenyl-d14	*96 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI023
Date Sampled: 06/07/06 12:27
Percent Solids: 78
Initial Volume: 19.9
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-04
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	644	1	06/12/06
2-Methylnaphthalene	ND	ug/Kg dry	644	1	06/12/06
Acenaphthene	ND	ug/Kg dry	644	1	06/12/06
Acenaphthylene	ND	ug/Kg dry	644	1	06/12/06
Anthracene	ND	ug/Kg dry	644	1	06/12/06
Benzo(a)anthracene	ND	ug/Kg dry	644	1	06/12/06
Benzo(a)pyrene	ND	ug/Kg dry	644	1	06/12/06
Benzo(b)fluoranthene	ND	ug/Kg dry	644	1	06/12/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	644	1	06/12/06
Benzo(k)fluoranthene	ND	ug/Kg dry	644	1	06/12/06
Chrysene	ND	ug/Kg dry	644	1	06/12/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	644	1	06/12/06
Fluoranthene	**1300**	ug/Kg dry	644	1	06/12/06
Fluorene	ND	ug/Kg dry	644	1	06/12/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	644	1	06/12/06
Naphthalene	ND	ug/Kg dry	644	1	06/12/06
Phenanthrene	**868**	ug/Kg dry	644	1	06/12/06
Pyrene	**1250**	ug/Kg dry	644	1	06/12/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*89 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*92 %*		*30-130*
Surrogate: Nitrobenzene-d5	*82 %*		*30-130*
Surrogate: p-Terphenyl-d14	*109 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI021
Date Sampled: 06/08/06 16:05
Percent Solids: 79
Initial Volume: 19.7
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-05
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	643	1	06/12/06
2-Methylnaphthalene	ND	ug/Kg dry	643	1	06/12/06
Acenaphthene	ND	ug/Kg dry	643	1	06/12/06
Acenaphthylene	ND	ug/Kg dry	643	1	06/12/06
Anthracene	ND	ug/Kg dry	643	1	06/12/06
Benzo(a)anthracene	ND	ug/Kg dry	643	1	06/12/06
Benzo(a)pyrene	ND	ug/Kg dry	643	1	06/12/06
Benzo(b)fluoranthene	ND	ug/Kg dry	643	1	06/12/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	643	1	06/12/06
Benzo(k)fluoranthene	ND	ug/Kg dry	643	1	06/12/06
Chrysene	ND	ug/Kg dry	643	1	06/12/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	643	1	06/12/06
Fluoranthene	ND	ug/Kg dry	643	1	06/12/06
Fluorene	ND	ug/Kg dry	643	1	06/12/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	643	1	06/12/06
Naphthalene	ND	ug/Kg dry	643	1	06/12/06
Phenanthrene	ND	ug/Kg dry	643	1	06/12/06
Pyrene	**1450**	ug/Kg dry	643	1	06/12/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*68 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*78 %*		*30-130*
Surrogate: Nitrobenzene-d5	*65 %*		*30-130*
Surrogate: p-Terphenyl-d14	*160 %*	+	*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI012
Date Sampled: 06/08/06 12:29
Percent Solids: 92
Initial Volume: 19.6
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-06
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	555	1	06/12/06
2-Methylnaphthalene	ND	ug/Kg dry	555	1	06/12/06
Acenaphthene	ND	ug/Kg dry	555	1	06/12/06
Acenaphthylene	ND	ug/Kg dry	555	1	06/12/06
Anthracene	ND	ug/Kg dry	555	1	06/12/06
Benzo(a)anthracene	ND	ug/Kg dry	555	1	06/12/06
Benzo(a)pyrene	ND	ug/Kg dry	555	1	06/12/06
Benzo(b)fluoranthene	ND	ug/Kg dry	555	1	06/12/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	555	1	06/12/06
Benzo(k)fluoranthene	ND	ug/Kg dry	555	1	06/12/06
Chrysene	ND	ug/Kg dry	555	1	06/12/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	555	1	06/12/06
Fluoranthene	ND	ug/Kg dry	555	1	06/12/06
Fluorene	ND	ug/Kg dry	555	1	06/12/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	555	1	06/12/06
Naphthalene	ND	ug/Kg dry	555	1	06/12/06
Phenanthrene	ND	ug/Kg dry	555	1	06/12/06
Pyrene	ND	ug/Kg dry	555	1	06/12/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*77 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*82 %*		*30-130*
Surrogate: Nitrobenzene-d5	*70 %*		*30-130*
Surrogate: p-Terphenyl-d14	*81 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI013
Date Sampled: 06/08/06 14:01
Percent Solids: 93
Initial Volume: 19.9
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-07
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	540	1	06/12/06
2-Methylnaphthalene	ND	ug/Kg dry	540	1	06/12/06
Acenaphthene	ND	ug/Kg dry	540	1	06/12/06
Acenaphthylene	ND	ug/Kg dry	540	1	06/12/06
Anthracene	ND	ug/Kg dry	540	1	06/12/06
Benzo(a)anthracene	ND	ug/Kg dry	540	1	06/12/06
Benzo(a)pyrene	ND	ug/Kg dry	540	1	06/12/06
Benzo(b)fluoranthene	ND	ug/Kg dry	540	1	06/12/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	540	1	06/12/06
Benzo(k)fluoranthene	ND	ug/Kg dry	540	1	06/12/06
Chrysene	ND	ug/Kg dry	540	1	06/12/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	540	1	06/12/06
Fluoranthene	ND	ug/Kg dry	540	1	06/12/06
Fluorene	ND	ug/Kg dry	540	1	06/12/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	540	1	06/12/06
Naphthalene	ND	ug/Kg dry	540	1	06/12/06
Phenanthrene	ND	ug/Kg dry	540	1	06/12/06
Pyrene	ND	ug/Kg dry	540	1	06/12/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*78 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*79 %*		*30-130*
Surrogate: Nitrobenzene-d5	*69 %*		*30-130*
Surrogate: p-Terphenyl-d14	*71 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI014
Date Sampled: 06/08/06 14:16
Percent Solids: 94
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-08
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	521	1	06/12/06
2-Methylnaphthalene	ND	ug/Kg dry	521	1	06/12/06
Acenaphthene	ND	ug/Kg dry	521	1	06/12/06
Acenaphthylene	ND	ug/Kg dry	521	1	06/12/06
Anthracene	ND	ug/Kg dry	521	1	06/12/06
Benzo(a)anthracene	ND	ug/Kg dry	521	1	06/12/06
Benzo(a)pyrene	ND	ug/Kg dry	521	1	06/12/06
Benzo(b)fluoranthene	ND	ug/Kg dry	521	1	06/12/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	521	1	06/12/06
Benzo(k)fluoranthene	ND	ug/Kg dry	521	1	06/12/06
Chrysene	ND	ug/Kg dry	521	1	06/12/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	521	1	06/12/06
Fluoranthene	ND	ug/Kg dry	521	1	06/12/06
Fluorene	ND	ug/Kg dry	521	1	06/12/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	521	1	06/12/06
Naphthalene	ND	ug/Kg dry	521	1	06/12/06
Phenanthrene	ND	ug/Kg dry	521	1	06/12/06
Pyrene	ND	ug/Kg dry	521	1	06/12/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*82 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*83 %*		*30-130*
Surrogate: Nitrobenzene-d5	*75 %*		*30-130*
Surrogate: p-Terphenyl-d14	*77 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI015
Date Sampled: 06/08/06 14:31
Percent Solids: 89
Initial Volume: 20.1
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-09
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	559	1	06/15/06
2-Methylnaphthalene	ND	ug/Kg dry	559	1	06/15/06
Acenaphthene	ND	ug/Kg dry	559	1	06/15/06
Acenaphthylene	ND	ug/Kg dry	559	1	06/15/06
Anthracene	**784**	ug/Kg dry	559	1	06/15/06
Benzo(a)anthracene	**2780**	ug/Kg dry	559	1	06/15/06
Benzo(a)pyrene	**2690**	ug/Kg dry	559	1	06/15/06
Benzo(b)fluoranthene	**2680**	ug/Kg dry	559	1	06/15/06
Benzo(g,h,i)perylene	**1550**	ug/Kg dry	559	1	06/15/06
Benzo(k)fluoranthene	**1950**	ug/Kg dry	559	1	06/15/06
Chrysene	**2700**	ug/Kg dry	559	1	06/15/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	559	1	06/15/06
Fluoranthene	**5520**	ug/Kg dry	559	1	06/15/06
Fluorene	ND	ug/Kg dry	559	1	06/15/06
Indeno(1,2,3-cd)Pyrene	**1530**	ug/Kg dry	559	1	06/15/06
Naphthalene	ND	ug/Kg dry	559	1	06/15/06
Phenanthrene	**3710**	ug/Kg dry	559	1	06/15/06
Pyrene	**3970**	ug/Kg dry	559	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*75 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*78 %*		*30-130*
Surrogate: Nitrobenzene-d5	*77 %*		*30-130*
Surrogate: p-Terphenyl-d14	*71 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI016
Date Sampled: 06/08/06 14:51
Percent Solids: 92
Initial Volume: 20
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-10
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	543	1	06/15/06
2-Methylnaphthalene	ND	ug/Kg dry	543	1	06/15/06
Acenaphthene	ND	ug/Kg dry	543	1	06/15/06
Acenaphthylene	ND	ug/Kg dry	543	1	06/15/06
Anthracene	ND	ug/Kg dry	543	1	06/15/06
Benzo(a)anthracene	**1360**	ug/Kg dry	543	1	06/15/06
Benzo(a)pyrene	**1650**	ug/Kg dry	543	1	06/15/06
Benzo(b)fluoranthene	**1950**	ug/Kg dry	543	1	06/15/06
Benzo(g,h,i)perylene	**944**	ug/Kg dry	543	1	06/15/06
Benzo(k)fluoranthene	**1360**	ug/Kg dry	543	1	06/15/06
Chrysene	**1470**	ug/Kg dry	543	1	06/15/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	543	1	06/15/06
Fluoranthene	**2840**	ug/Kg dry	543	1	06/15/06
Fluorene	ND	ug/Kg dry	543	1	06/15/06
Indeno(1,2,3-cd)Pyrene	**952**	ug/Kg dry	543	1	06/15/06
Naphthalene	ND	ug/Kg dry	543	1	06/15/06
Phenanthrene	**664**	ug/Kg dry	543	1	06/15/06
Pyrene	**1910**	ug/Kg dry	543	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*73 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*81 %*		*30-130*
Surrogate: Nitrobenzene-d5	*79 %*		*30-130*
Surrogate: p-Terphenyl-d14	*76 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI017
Date Sampled: 06/08/06 15:05
Percent Solids: 90
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-11
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	529	1	06/15/06
2-Methylnaphthalene	ND	ug/Kg dry	529	1	06/15/06
Acenaphthene	ND	ug/Kg dry	529	1	06/15/06
Acenaphthylene	**574**	ug/Kg dry	529	1	06/15/06
Anthracene	**1050**	ug/Kg dry	529	1	06/15/06
Benzo(a)anthracene	**3120**	ug/Kg dry	529	1	06/15/06
Benzo(a)pyrene	**3110**	ug/Kg dry	529	1	06/15/06
Benzo(b)fluoranthene	**3330**	ug/Kg dry	529	1	06/15/06
Benzo(g,h,i)perylene	**1350**	ug/Kg dry	529	1	06/15/06
Benzo(k)fluoranthene	**2250**	ug/Kg dry	529	1	06/15/06
Chrysene	**2960**	ug/Kg dry	529	1	06/15/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	529	1	06/15/06
Fluoranthene	**6950**	ug/Kg dry	529	1	06/15/06
Fluorene	ND	ug/Kg dry	529	1	06/15/06
Indeno(1,2,3-cd)Pyrene	**1380**	ug/Kg dry	529	1	06/15/06
Naphthalene	ND	ug/Kg dry	529	1	06/15/06
Phenanthrene	**5090**	ug/Kg dry	529	1	06/15/06
Pyrene	**5420**	ug/Kg dry	529	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*61 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*71 %*		*30-130*
Surrogate: Nitrobenzene-d5	*68 %*		*30-130*
Surrogate: p-Terphenyl-d14	*73 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI018
Date Sampled: 06/08/06 15:18
Percent Solids: 93
Initial Volume: 19.8
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-12
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	543	1	06/13/06
2-Methylnaphthalene	ND	ug/Kg dry	543	1	06/13/06
Acenaphthene	ND	ug/Kg dry	543	1	06/13/06
Acenaphthylene	ND	ug/Kg dry	543	1	06/13/06
Anthracene	ND	ug/Kg dry	543	1	06/13/06
Benzo(a)anthracene	ND	ug/Kg dry	543	1	06/13/06
Benzo(a)pyrene	ND	ug/Kg dry	543	1	06/13/06
Benzo(b)fluoranthene	ND	ug/Kg dry	543	1	06/13/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	543	1	06/13/06
Benzo(k)fluoranthene	ND	ug/Kg dry	543	1	06/13/06
Chrysene	ND	ug/Kg dry	543	1	06/13/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	543	1	06/13/06
Fluoranthene	ND	ug/Kg dry	543	1	06/13/06
Fluorene	ND	ug/Kg dry	543	1	06/13/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	543	1	06/13/06
Naphthalene	ND	ug/Kg dry	543	1	06/13/06
Phenanthrene	ND	ug/Kg dry	543	1	06/13/06
Pyrene	ND	ug/Kg dry	543	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*77 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*83 %*		*30-130*
Surrogate: Nitrobenzene-d5	*73 %*		*30-130*
Surrogate: p-Terphenyl-d14	*95 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI019
Date Sampled: 06/08/06 15:25
Percent Solids: 93
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-13
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	527	1	06/13/06
2-Methylnaphthalene	ND	ug/Kg dry	527	1	06/13/06
Acenaphthene	ND	ug/Kg dry	527	1	06/13/06
Acenaphthylene	ND	ug/Kg dry	527	1	06/13/06
Anthracene	ND	ug/Kg dry	527	1	06/13/06
Benzo(a)anthracene	ND	ug/Kg dry	527	1	06/13/06
Benzo(a)pyrene	ND	ug/Kg dry	527	1	06/13/06
Benzo(b)fluoranthene	ND	ug/Kg dry	527	1	06/13/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	527	1	06/13/06
Benzo(k)fluoranthene	ND	ug/Kg dry	527	1	06/13/06
Chrysene	ND	ug/Kg dry	527	1	06/13/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	527	1	06/13/06
Fluoranthene	ND	ug/Kg dry	527	1	06/13/06
Fluorene	ND	ug/Kg dry	527	1	06/13/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	527	1	06/13/06
Naphthalene	ND	ug/Kg dry	527	1	06/13/06
Phenanthrene	ND	ug/Kg dry	527	1	06/13/06
Pyrene	ND	ug/Kg dry	527	1	06/13/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: 1,2-Dichlorobenzene-d4	*64 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*71 %*		*30-130*
Surrogate: Nitrobenzene-d5	*61 %*		*30-130*
Surrogate: p-Terphenyl-d14	*70 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI020
Date Sampled: 06/08/06 15:43
Percent Solids: 88
Initial Volume: 20.6
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-14
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	552	1	06/16/06
2-Methylnaphthalene	ND	ug/Kg dry	552	1	06/16/06
Acenaphthene	ND	ug/Kg dry	552	1	06/16/06
Acenaphthylene	ND	ug/Kg dry	552	1	06/16/06
Anthracene	**558**	ug/Kg dry	552	1	06/16/06
Benzo(a)anthracene	**2240**	ug/Kg dry	552	1	06/16/06
Benzo(a)pyrene	**2350**	ug/Kg dry	552	1	06/16/06
Benzo(b)fluoranthene	**2470**	ug/Kg dry	552	1	06/16/06
Benzo(g,h,i)perylene	**1210**	ug/Kg dry	552	1	06/16/06
Benzo(k)fluoranthene	**1760**	ug/Kg dry	552	1	06/16/06
Chrysene	**2160**	ug/Kg dry	552	1	06/16/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	552	1	06/16/06
Fluoranthene	**4800**	ug/Kg dry	552	1	06/16/06
Fluorene	ND	ug/Kg dry	552	1	06/16/06
Indeno(1,2,3-cd)Pyrene	**1160**	ug/Kg dry	552	1	06/16/06
Naphthalene	ND	ug/Kg dry	552	1	06/16/06
Phenanthrene	**2560**	ug/Kg dry	552	1	06/16/06
Pyrene	**4040**	ug/Kg dry	552	1	06/16/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*75 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*85 %*		*30-130*
Surrogate: Nitrobenzene-d5	*81 %*		*30-130*
Surrogate: p-Terphenyl-d14	*87 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI101
Date Sampled: 06/08/06 09:52
Percent Solids: 85
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-15
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	560	1	06/13/06
2-Methylnaphthalene	ND	ug/Kg dry	560	1	06/13/06
Acenaphthene	ND	ug/Kg dry	560	1	06/13/06
Acenaphthylene	ND	ug/Kg dry	560	1	06/13/06
Anthracene	ND	ug/Kg dry	560	1	06/13/06
Benzo(a)anthracene	ND	ug/Kg dry	560	1	06/13/06
Benzo(a)pyrene	ND	ug/Kg dry	560	1	06/13/06
Benzo(b)fluoranthene	ND	ug/Kg dry	560	1	06/13/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	560	1	06/13/06
Benzo(k)fluoranthene	ND	ug/Kg dry	560	1	06/13/06
Chrysene	ND	ug/Kg dry	560	1	06/13/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	560	1	06/13/06
Fluoranthene	ND	ug/Kg dry	560	1	06/13/06
Fluorene	ND	ug/Kg dry	560	1	06/13/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	560	1	06/13/06
Naphthalene	ND	ug/Kg dry	560	1	06/13/06
Phenanthrene	ND	ug/Kg dry	560	1	06/13/06
Pyrene	ND	ug/Kg dry	560	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*70 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*75 %*		*30-130*
Surrogate: Nitrobenzene-d5	*65 %*		*30-130*
Surrogate: p-Terphenyl-d14	*90 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI022
Date Sampled: 06/08/06 09:13
Percent Solids: 91
Initial Volume: 20.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-16
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	544	1	06/15/06
2-Methylnaphthalene	ND	ug/Kg dry	544	1	06/15/06
Acenaphthene	ND	ug/Kg dry	544	1	06/15/06
Acenaphthylene	ND	ug/Kg dry	544	1	06/15/06
Anthracene	ND	ug/Kg dry	544	1	06/15/06
Benzo(a)anthracene	**1330**	ug/Kg dry	544	1	06/15/06
Benzo(a)pyrene	**2010**	ug/Kg dry	544	1	06/15/06
Benzo(b)fluoranthene	**2220**	ug/Kg dry	544	1	06/15/06
Benzo(g,h,i)perylene	**1330**	ug/Kg dry	544	1	06/15/06
Benzo(k)fluoranthene	**1360**	ug/Kg dry	544	1	06/15/06
Chrysene	**1390**	ug/Kg dry	544	1	06/15/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	544	1	06/15/06
Fluoranthene	**2010**	ug/Kg dry	544	1	06/15/06
Fluorene	ND	ug/Kg dry	544	1	06/15/06
Indeno(1,2,3-cd)Pyrene	**1290**	ug/Kg dry	544	1	06/15/06
Naphthalene	ND	ug/Kg dry	544	1	06/15/06
Phenanthrene	ND	ug/Kg dry	544	1	06/15/06
Pyrene	**1540**	ug/Kg dry	544	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*66 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*74 %*		*30-130*
Surrogate: Nitrobenzene-d5	*70 %*		*30-130*
Surrogate: p-Terphenyl-d14	*64 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI205
Date Sampled: 06/08/06 07:44
Percent Solids: 89
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-17
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	535	1	06/13/06
2-Methylnaphthalene	ND	ug/Kg dry	535	1	06/13/06
Acenaphthene	ND	ug/Kg dry	535	1	06/13/06
Acenaphthylene	ND	ug/Kg dry	535	1	06/13/06
Anthracene	ND	ug/Kg dry	535	1	06/13/06
Benzo(a)anthracene	ND	ug/Kg dry	535	1	06/13/06
Benzo(a)pyrene	ND	ug/Kg dry	535	1	06/13/06
Benzo(b)fluoranthene	ND	ug/Kg dry	535	1	06/13/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	535	1	06/13/06
Benzo(k)fluoranthene	ND	ug/Kg dry	535	1	06/13/06
Chrysene	ND	ug/Kg dry	535	1	06/13/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	535	1	06/13/06
Fluoranthene	ND	ug/Kg dry	535	1	06/13/06
Fluorene	ND	ug/Kg dry	535	1	06/13/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	535	1	06/13/06
Naphthalene	ND	ug/Kg dry	535	1	06/13/06
Phenanthrene	ND	ug/Kg dry	535	1	06/13/06
Pyrene	ND	ug/Kg dry	535	1	06/13/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*73 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*79 %*		*30-130*
Surrogate: Nitrobenzene-d5	*68 %*		*30-130*
Surrogate: p-Terphenyl-d14	*126 %*		*30-130*

Semi-Volatile Organics Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch BF61217 - 3510C										
Aroclor 1268 (2) [2C]	ND	0.100	ug/L							
Aroclor 1268 (3)	ND	0.100	ug/L							
Aroclor 1268 (3) [2C]	ND	0.100	ug/L							
Aroclor 1268 (4)	ND	0.100	ug/L							
Aroclor 1268 (4) [2C]	ND	0.100	ug/L							
Aroclor 1268 (5)	ND	0.100	ug/L							
Aroclor 1268 (5) [2C]	ND	0.100	ug/L							
Surrogate: Decachlorobiphenyl	*0.0423*		ug/L	*0.0500*		*85*	*40-140*			
Surrogate: Decachlorobiphenyl [2C]	*0.0388*		ug/L	*0.0500*		*78*	*40-140*			
Surrogate: Tetrachloro-m-xylene	*0.0429*		ug/L	*0.0500*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0419*		ug/L	*0.0500*		*84*	*40-140*			
LCS										
Aroclor 1016	0.880	0.100	ug/L	1.00		88	40-140			
Aroclor 1260	0.907	0.100	ug/L	1.00		91	40-140			
Surrogate: Decachlorobiphenyl	*0.0539*		ug/L	*0.0500*		*108*	*40-140*			
Surrogate: Decachlorobiphenyl [2C]	*0.0467*		ug/L	*0.0500*		*93*	*40-140*			
Surrogate: Tetrachloro-m-xylene	*0.0458*		ug/L	*0.0500*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0418*		ug/L	*0.0500*		*84*	*40-140*			
LCS Dup										
Aroclor 1016	0.895	0.100	ug/L	1.00		90	40-140	2	50	
Aroclor 1260	0.802	0.100	ug/L	1.00		80	40-140	12	50	
Surrogate: Decachlorobiphenyl	*0.0436*		ug/L	*0.0500*		*87*	*40-140*			
Surrogate: Decachlorobiphenyl [2C]	*0.0421*		ug/L	*0.0500*		*84*	*40-140*			
Surrogate: Tetrachloro-m-xylene	*0.0359*		ug/L	*0.0500*		*72*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0485*		ug/L	*0.0500*		*97*	*40-140*			
8270C Polynuclear Aromatic Hydrocarbons										
Batch BF61201 - 3541										
Blank										
1-Methylnaphthalene	ND	500	ug/Kg wet							
2-Methylnaphthalene	ND	500	ug/Kg wet							
Acenaphthene	ND	500	ug/Kg wet							
Acenaphthylene	ND	500	ug/Kg wet							
Anthracene	ND	500	ug/Kg wet							
Benzo(a)anthracene	ND	500	ug/Kg wet							
Benzo(a)pyrene	ND	500	ug/Kg wet							
Benzo(b)fluoranthene	ND	500	ug/Kg wet							
Benzo(g,h,i)perylene	ND	500	ug/Kg wet							
Benzo(k)fluoranthene	ND	500	ug/Kg wet							
Chrysene	ND	500	ug/Kg wet							
Dibenzo(a,h)Anthracene	ND	500	ug/Kg wet							
Fluoranthene	ND	500	ug/Kg wet							
Fluorene	ND	500	ug/Kg wet							
Indeno(1,2,3-cd)Pyrene	ND	500	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BF61201 - 3541										
Naphthalene	ND	500	ug/Kg wet							
Phenanthrene	ND	500	ug/Kg wet							
Pyrene	ND	500	ug/Kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*4880*		ug/Kg wet	*5000*		*98*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*4880*		ug/Kg wet	*5000*		*98*	*30-130*			
Surrogate: Nitrobenzene-d5	*4400*		ug/Kg wet	*5000*		*88*	*30-130*			
Surrogate: p-Terphenyl-d14	*4320*		ug/Kg wet	*5000*		*86*	*30-130*			
LCS										
2-Methylnaphthalene	4200	500	ug/Kg wet	5000		84	40-140			
Acenaphthene	4280	500	ug/Kg wet	5000		86	40-140			
Acenaphthylene	4260	500	ug/Kg wet	5000		85	40-140			
Anthracene	4350	500	ug/Kg wet	5000		87	40-140			
Benzo(a)anthracene	4160	500	ug/Kg wet	5000		83	40-140			
Benzo(a)pyrene	4280	500	ug/Kg wet	5000		86	40-140			
Benzo(b)fluoranthene	4850	500	ug/Kg wet	5000		97	40-140			
Benzo(g,h,i)perylene	4520	500	ug/Kg wet	5000		90	40-140			
Benzo(k)fluoranthene	5720	500	ug/Kg wet	5000		114	40-140			
Chrysene	4320	500	ug/Kg wet	5000		86	40-140			
Dibenzo(a,h)Anthracene	5540	500	ug/Kg wet	5000		111	40-140			
Fluoranthene	4280	500	ug/Kg wet	5000		86	40-140			
Fluorene	4150	500	ug/Kg wet	5000		83	40-140			
Indeno(1,2,3-cd)Pyrene	5540	500	ug/Kg wet	5000		111	40-140			
Naphthalene	4200	500	ug/Kg wet	5000		84	40-140			
Phenanthrene	4250	500	ug/Kg wet	5000		85	40-140			
Pyrene	4080	500	ug/Kg wet	5000		82	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*4330*		ug/Kg wet	*5000*		*87*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*4530*		ug/Kg wet	*5000*		*91*	*30-130*			
Surrogate: Nitrobenzene-d5	*4100*		ug/Kg wet	*5000*		*82*	*30-130*			
Surrogate: p-Terphenyl-d14	*4510*		ug/Kg wet	*5000*		*90*	*30-130*			
LCS Dup										
2-Methylnaphthalene	4500	500	ug/Kg wet	5000		90	40-140	7	30	
Acenaphthene	4480	500	ug/Kg wet	5000		90	40-140	5	30	
Acenaphthylene	4440	500	ug/Kg wet	5000		89	40-140	5	30	
Anthracene	4550	500	ug/Kg wet	5000		91	40-140	4	30	
Benzo(a)anthracene	4310	500	ug/Kg wet	5000		86	40-140	4	30	
Benzo(a)pyrene	4530	500	ug/Kg wet	5000		91	40-140	6	30	
Benzo(b)fluoranthene	5210	500	ug/Kg wet	5000		104	40-140	7	30	
Benzo(g,h,i)perylene	4820	500	ug/Kg wet	5000		96	40-140	6	30	
Benzo(k)fluoranthene	5990	500	ug/Kg wet	5000		120	40-140	5	30	
Chrysene	4560	500	ug/Kg wet	5000		91	40-140	6	30	
Dibenzo(a,h)Anthracene	5790	500	ug/Kg wet	5000		116	40-140	4	30	
Fluoranthene	4500	500	ug/Kg wet	5000		90	40-140	5	30	
Fluorene	4300	500	ug/Kg wet	5000		86	40-140	4	30	
Indeno(1,2,3-cd)Pyrene	5790	500	ug/Kg wet	5000		116	40-140	4	30	
Naphthalene	4540	500	ug/Kg wet	5000		91	40-140	8	30	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BF61201 - 3541										
Phenanthrene	4470	500	ug/Kg wet	5000		89	40-140	5	30	
Pyrene	4220	500	ug/Kg wet	5000		84	40-140	2	30	
Surrogate: 1,2-Dichlorobenzene-d4	*4520*		ug/Kg wet	*5000*		*90*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*4650*		ug/Kg wet	*5000*		*93*	*30-130*			
Surrogate: Nitrobenzene-d5	*4280*		ug/Kg wet	*5000*		*86*	*30-130*			
Surrogate: p-Terphenyl-d14	*4420*		ug/Kg wet	*5000*		*88*	*30-130*			
Matrix Spike Source: 0606113-17										
2-Methylnaphthalene	3400	585	ug/Kg dry	5850	ND	58	40-140			
Acenaphthene	3570	585	ug/Kg dry	5850	ND	61	40-140			
Acenaphthylene	3520	585	ug/Kg dry	5850	ND	60	40-140			
Anthracene	3800	585	ug/Kg dry	5850	ND	65	40-140			
Benzo(a)anthracene	3370	585	ug/Kg dry	5850	ND	58	40-140			
Benzo(a)pyrene	3500	585	ug/Kg dry	5850	ND	60	40-140			
Benzo(b)fluoranthene	4420	585	ug/Kg dry	5850	ND	76	40-140			
Benzo(g,h,i)perylene	4030	585	ug/Kg dry	5850	ND	69	40-140			
Benzo(k)fluoranthene	4690	585	ug/Kg dry	5850	ND	80	40-140			
Chrysene	4020	585	ug/Kg dry	5850	ND	69	40-140			
Dibenzo(a,h)Anthracene	4830	585	ug/Kg dry	5850	ND	83	40-140			
Fluoranthene	3740	585	ug/Kg dry	5850	ND	64	40-140			
Fluorene	3620	585	ug/Kg dry	5850	ND	62	40-140			
Indeno(1,2,3-cd)Pyrene	4730	585	ug/Kg dry	5850	ND	81	40-140			
Naphthalene	3380	585	ug/Kg dry	5850	ND	58	40-140			
Phenanthrene	3880	585	ug/Kg dry	5850	ND	66	40-140			
Pyrene	5030	585	ug/Kg dry	5850	ND	86	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*3410*		ug/Kg dry	*5850*		*58*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*3650*		ug/Kg dry	*5850*		*62*	*30-130*			
Surrogate: Nitrobenzene-d5	*3170*		ug/Kg dry	*5850*		*54*	*30-130*			
Surrogate: p-Terphenyl-d14	*5050*		ug/Kg dry	*5850*		*86*	*30-130*			
Matrix Spike Dup Source: 0606113-17										
2-Methylnaphthalene	3980	565	ug/Kg dry	5650	ND	70	40-140	19	30	
Acenaphthene	4090	565	ug/Kg dry	5650	ND	72	40-140	17	30	
Acenaphthylene	4040	565	ug/Kg dry	5650	ND	72	40-140	18	30	
Anthracene	4200	565	ug/Kg dry	5650	ND	74	40-140	13	30	
Benzo(a)anthracene	3800	565	ug/Kg dry	5650	ND	67	40-140	14	30	
Benzo(a)pyrene	3990	565	ug/Kg dry	5650	ND	71	40-140	17	30	
Benzo(b)fluoranthene	5280	565	ug/Kg dry	5650	ND	93	40-140	20	30	
Benzo(g,h,i)perylene	4330	565	ug/Kg dry	5650	ND	77	40-140	11	30	
Benzo(k)fluoranthene	5030	565	ug/Kg dry	5650	ND	89	40-140	11	30	
Chrysene	4630	565	ug/Kg dry	5650	ND	82	40-140	17	30	
Dibenzo(a,h)Anthracene	5310	565	ug/Kg dry	5650	ND	94	40-140	12	30	
Fluoranthene	4130	565	ug/Kg dry	5650	ND	73	40-140	13	30	
Fluorene	4070	565	ug/Kg dry	5650	ND	72	40-140	15	30	
Indeno(1,2,3-cd)Pyrene	5230	565	ug/Kg dry	5650	ND	93	40-140	14	30	
Naphthalene	3920	565	ug/Kg dry	5650	ND	69	40-140	17	30	
Phenanthrene	4320	565	ug/Kg dry	5650	ND	76	40-140	14	30	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BF61201 - 3541										
Pyrene	5800	565	ug/Kg dry	5650	ND	103	40-140	18	30	
Surrogate: 1,2-Dichlorobenzene-d4	*3890*		ug/Kg dry	*5650*		*69*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*4210*		ug/Kg dry	*5650*		*75*	*30-130*			
Surrogate: Nitrobenzene-d5	*3750*		ug/Kg dry	*5650*		*66*	*30-130*			
Surrogate: p-Terphenyl-d14	*5930*		ug/Kg dry	*5650*		*105*	*30-130*			
8270C(SIM) Polynuclear Aromatic Hydrocarbons										
Batch BF61218 - 3510C										
Blank										
2-Methylnaphthalene	ND	0.20	ug/L							
Acenaphthene	ND	0.20	ug/L							
Acenaphthylene	ND	0.20	ug/L							
Anthracene	ND	0.20	ug/L							
Benzo(a)anthracene	ND	0.20	ug/L							
Benzo(a)pyrene	ND	0.20	ug/L							
Benzo(b)fluoranthene	ND	0.20	ug/L							
Benzo(g,h,i)perylene	ND	0.20	ug/L							
Benzo(k)fluoranthene	ND	0.30	ug/L							
Chrysene	ND	0.20	ug/L							
Dibenzo(a,h)Anthracene	ND	0.20	ug/L							
Fluoranthene	ND	0.20	ug/L							
Fluorene	ND	0.20	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	0.30	ug/L							
Naphthalene	ND	0.20	ug/L							
Phenanthrene	ND	0.20	ug/L							
Pyrene	ND	0.20	ug/L							
Surrogate: 1,2-Dichlorobenzene-d4	*2.48*		ug/L	*2.50*		*99*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.52*		ug/L	*2.50*		*101*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.53*		ug/L	*2.50*		*101*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.75*		ug/L	*2.50*		*110*	*30-130*			
LCS										
2-Methylnaphthalene	1.87	0.20	ug/L	2.50		75	40-140			
Acenaphthene	1.98	0.20	ug/L	2.50		79	40-140			
Acenaphthylene	1.89	0.20	ug/L	2.50		76	40-140			
Anthracene	2.17	0.20	ug/L	2.50		87	40-140			
Benzo(a)anthracene	2.19	0.20	ug/L	2.50		88	40-140			
Benzo(a)pyrene	2.28	0.20	ug/L	2.50		91	40-140			
Benzo(b)fluoranthene	3.49	0.20	ug/L	2.50		140	40-140			
Benzo(g,h,i)perylene	1.07	0.20	ug/L	2.50		43	40-140			
Benzo(k)fluoranthene	3.36	0.30	ug/L	2.50		134	40-140			
Chrysene	2.19	0.20	ug/L	2.50		88	40-140			
Dibenzo(a,h)Anthracene	1.25	0.20	ug/L	2.50		50	40-140			
Fluoranthene	2.77	0.20	ug/L	2.50		111	40-140			
Fluorene	2.12	0.20	ug/L	2.50		85	40-140			
Indeno(1,2,3-cd)Pyrene	1.16	0.30	ug/L	2.50		46	40-140			
Naphthalene	1.83	0.20	ug/L	2.50		73	40-140			

Semi-Volatile Organics Calibration Data

ANALYSIS SEQUENCE

BPF0041

Instrument: SVOA-MS1

Calibnration ID: ~~UNASSIGNED~~ SVINF

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0041-TUN1	QC		1		6E31075		
BPF0041-CAL1	QC		2		6E31076	6E26058	
BPF0041-CAL2	QC		3		6E31077	6E26058	
BPF0041-CAL3	QC		4		6E31078	6E26058	
BPF0041-CAL4	QC		5		6E31079	6E26058	
BPF0041-CAL5	QC		6		6E31080	6E26058	
BPF0041-CAL6	QC		7		6E31081	6E26058	
BPF0041-CAL7	QC		8		6E31082	6E26058	
BPF0041-CAL8	QC		9		6E31083	6E26058	
BPF0041-SCV1	QC		10		6E31084	6E26058	

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GCMS1 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/3/06	12	SV1 38928	0605478-06 ✓	SVINE	5x 6E26058	VSL
↓	13	SV1 29	0605488-02 ✓	↓	ra IS Failed	↓
	14	~~SV1 30~~	~~0605488-01~~		RR 5x	
	15	SV1 31	0605435-01			
	~~13~~ 16	SV1 32	0605488-02			
6/3/06	16	SV1 33	0605488-01	SVINE	5x 6E26058	VSL
6/5/06	1	SV1 34	Tun1	DFTPP		~~VSL~~ 6/6/06
	2	SV1 35	CCV1	SVINE		VSL/JLS
	2	SV1 36	CCV1	SVINE		
	1	SV1 37	~~Tun~~ BPF0038-Tun1 6/6/06	DFTPP	6E31075	
	2	SV1 38	~~CCV~~ BPF0038-CCV1 6/6/06	SVINE	6E26057	
	3	SV1 39	BF60137-BLK1 ✓		6F03035	
	4	SV1 40	BF60137-BS1 ✓			
	5	SV1 41	BF60137-BSD1 ✓			
	6	SV1 42	BF60121-Blk1 ✓			
	7	SV1 43	BF60121-BS1 ✓			
	8	SV1 44	BF60121-BSD1 ✓			
	9	SV1 45	0605429-01 ✓			
	10	SV1 46	0605429-02 ✓			
	11	SV1 47	0605429-03 ✓			
	12	SV1 48	0605487-02 ✓			
	13	SV1 49	0605487-03 ✓			
	14	SV1 50	0605435-01 ✓			
	15	SV1 51	⊕ 0605435-03 ✓			
	16	SV1 52	⊕ 0605488-01 ✓			
	17	SV1 53	⊕ 0605488-02 ✓			
↓	18	SV1 54	⊕ 0605488-01 ✓	↓	6F03035	↓
6/5/06	19	SV1 55	⊕ 0605484-01 X	SVINE	no IS added!	VSL/JLS
~~6/6/06~~ 6/6/06	1	SV1 56	BPF0041-Tun1	DFTPP	6E31075	VSL
6/6/06	2	SV1 57	BPF0041-cal	SVINE	6E31076	VSL

Control Number 60.0018-0601A

⊕ VSL 6/6/06 5 errors

Page________

04

ESS LABORATORY
GCMS1 RUN LOG

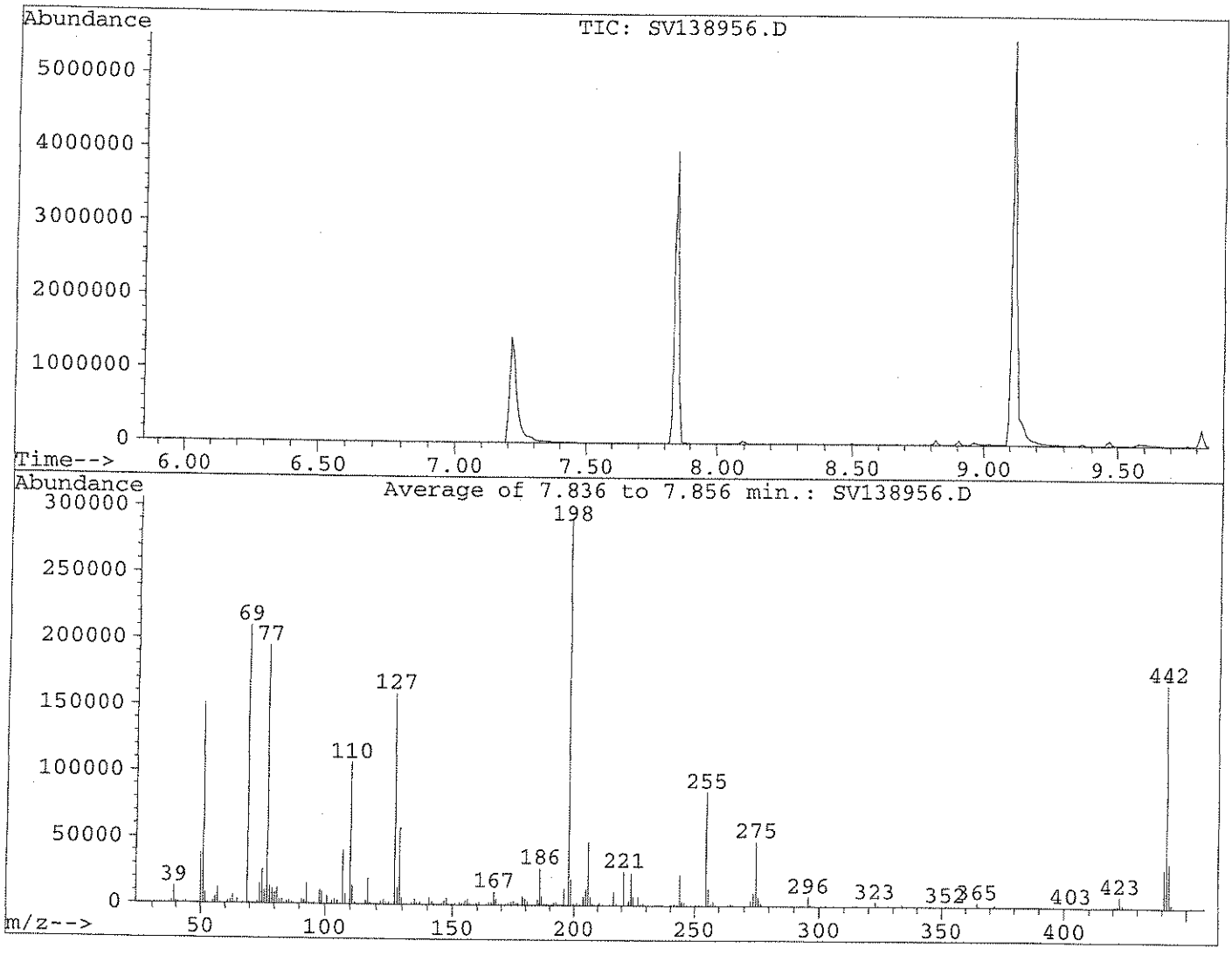
COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
			VM 12/6/06			
6/6/06	3	SV1 38958	~~BPF0044~~ BPF0041-cal2	SVINF	6E31077	LSL
	4	SV1 59	BPF0041-cal3		78	
	5	SV1 60	BPF0041-cal4		79	
	6	SV1 61	-cal5		80	
	7	SV1 62	-cal6		81	
	8	SV1 63	-cal7		82	
	9	SV1 64	-cal8		83	
	10	SV1 65	BPF0045-SLV1	SVINF	6E31084	
	1	SV1 66	BPF0049-TMV1	OPTAP	6E31075	
	2	SV1 67	BPF0049-CLV1	SVINF	6F06044	
	3	SV1 68	TCLP MS QC		6F03035	
	4	SV1 69	BF60223-Blk1			
	5	SV1 70	BF60223-BS1			
	6	SV1 71	BF60223-BSD1			
	7	SV1 72	0605491-01			
	8	SV1 73	0605491-02			
	9	SV1 74	0605491-03			
	10	SV1 75	0605491-04			
	11	SV1 76	0606010-02			
	12	SV1 77	0605486-01			
	13	SV1 78	-03 X		BR Bad Dm3	
	14	SV1 79	-04			
	15	SV1 80	-05 X		BR Bad Dm3	
	16	SV1 81	-06		BR Fs Failed	
	17	SV1 82	0605486-12			
	18	SV1 83	0606043-01		BR Fs Failed	
	19	SV1 84	0606043-02			
	20	SV1 85	0606013-01			
	21	SV1 86	0606013-01MS			
6/6/06	22	SV1 87	0606013-01MSD	SVINF	6F03035	

DFTPP CLP

Data File : Q:\SVOA\MS1_MD\MD0606\MD060606\SV138956.D Vial: 1
Acq On : 6 Jun 106 9:09 am Operator: VSC
Sample : BPF0041-TUN1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\DFTPP.M
Title : daily instrument eval mix



Peak Apex is scan: 219

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	52.1	151437	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	72.2	209723	PASS
70	69	0	2	0.5	984	PASS
127	198	40	60	54.9	159408	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	290397	PASS
199	198	5	9	6.6	19112	PASS
275	198	10	30	16.8	48680	PASS
365	198	1	100	1.0	3025	PASS
441	443	0	100	88.1	29233	PASS
442	198	40	110	58.2	168920	PASS
443	442	17	23	19.7	33193	PASS

SV138956.D DFTPP.M Thu Jul 20 10:41:27 2006

Response Factor Report SVOA-MS1

Method : C:\HPCHEM\1\METHODS\SV1NF.M
Title : ELEMENT ID: 0606008(SOIL) 0606009(AQUEOUS)
Last Update : Tue Jun 06 16:37:55 2006
Response via : Initial Calibration

Calibration Files
5 =SV138957.D = 50 =SV138960.D
80 =SV138961.D 120 =SV138962.D 160 =SV138963.D

		Compound	5	50	80	120	160	Avg	%RSD	
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)		N-Nitrosodimethylam	0.159	0.194	0.184	0.181	0.202	0.188	0.185	7.20
3)		Pyridine	0.350	0.296	0.329	0.342	0.340	0.338	0.335	8.49
4)	S	2-Fluorophenol (SUR	1.504	1.609	1.663	1.630	1.664	1.668	1.595	4.75
5)		bis(2-Chloroethyl)e	2.047	1.847	1.860	1.791	1.597	1.727	1.847	7.83
6)	S	Phenol-d5 (SURR)	2.032	2.121	2.130	2.047	2.010	1.990	2.056	2.38
7)	M	2-Chlorophenol	1.582	1.550	1.548	1.504	1.473	1.473	1.529	2.67
8)	MC	Phenol	2.717	2.676	2.659	2.540	2.483	2.509	2.614	3.39
9)		Aniline	2.451	2.773	2.746	2.642	2.729	2.630	2.669	3.87
10)	S	2-Chlorophenol-d4(S	1.541	1.509	1.513	1.457	1.430	1.416	1.489	3.22
11)		1,3-Dichlorobenzene	1.511	1.509	1.547	1.488	1.465	1.449	1.495	2.00
12)	MC	1,4-Dichlorobenzene	1.642	1.623	1.562	1.521	1.467	1.467	1.568	4.81
13)	S	1,2 Dichlorobenzene	0.950	0.886	0.861	0.800	0.736	0.716	0.844	10.05
14)		1,2-Dichlorobenzene	1.446	1.436	1.406	1.305	1.162	1.112	1.342	10.04
15)		Benzyl Alcohol	1.086	1.198	1.201	1.148	1.107	1.090	1.143	3.96
16)		bis(2-chloroisoprop	2.720	2.421	2.333	2.191	2.111	2.102	2.370	9.64
17)		2-Methylphenol	1.627	1.469	1.473	1.417	1.399	1.395	1.474	5.18
18)		Acetophenone	1.907	1.867	1.883	1.830	1.814	1.828	1.857	1.71
19)	MP	N-Nitroso-Di-n-Prop	1.175	1.093	1.067	1.013	0.978	0.967	1.069	7.23#
20)		Hexachloroethane	0.637	0.618	0.615	0.580	0.516	0.499	0.589	9.01
21)		3+4-Methylphenol	1.732	1.563	1.549	1.456	1.308	1.245	1.510	10.89
22)	I	Naphthalene-d8	----------ISTD----------							
23)	S	Nitrobenzene-d5 (SU	0.390	0.394	0.396	0.394	0.400	0.403	0.394	1.26
24)		Nitrobenzene	0.399	0.412	0.404	0.405	0.411	0.410	0.407	1.04
25)		Isophorone	0.815	0.795	0.790	0.799	0.816	0.831	0.801	2.21
26)	C	2-Nitrophenol	0.201	0.222	0.223	0.224	0.225	0.228	0.218	4.69
27)		Benzoic Acid		0.210	0.261	0.277	0.292	0.304	0.249	23.54 L 5,10
28)		2,4-Dimethylphenol	0.355	0.341	0.345	0.344	0.346	0.349	0.344	1.68
29)		bis(2-Chloroethoxy)	0.528	0.536	0.534	0.533	0.538	0.539	0.532	1.05
30)	C	2,4-Dichlorophenol	0.252	0.277	0.275	0.276	0.273	0.271	0.267	4.07
31)	M	1,2,4-Trichlorobenz	0.260	0.279	0.277	0.272	0.267	0.267	0.270	2.44
32)		Naphthalene	1.068	1.064	1.049	1.015	0.979	0.955	1.025	3.95
33)		4-Chloroaniline	0.445	0.486	0.475	0.451	0.414	0.386	0.450	7.66
34)	C	Hexachlorobutadiene	0.105	0.107	0.105	0.101	0.096	0.096	0.102	4.09
35)	MC	4-Chloro-3-Methylph	0.273	0.315	0.317	0.316	0.313	0.291	0.303	5.19
36)		2-Methylnaphthalene	0.623	0.654	0.643	0.628	0.612	0.625	0.631	2.08
37)		1-Methylnaphthalene	0.635	0.640	0.625	0.611	0.591	0.613	0.622	2.66
38)	I	Acenaphthene-d10	----------ISTD----------							
39)	P	Hexachlorocyclopent		0.049	0.086	0.098	0.109	0.109	0.080	41.84# L-5,10
40)	C	2,4,6-Trichlorophen	0.313	0.330	0.332	0.332	0.331	0.331	0.326	2.47
41)		2,4,5-Trichlorophen	0.345	0.368	0.365	0.345	0.315	0.311	0.347	6.50
42)	S	2-Fluorobiphenyl (S	1.319	1.255	1.233	1.162	1.094	1.069	1.205	7.26
43)		Biphenyl	1.575	1.452	1.424	1.332	1.211	1.213	1.397	9.52
44)		2-Chloronaphthalene	1.383	1.244	1.243	1.202	1.180	1.214	1.251	4.96
45)		Dimethylphthalate	1.248	1.252	1.263	1.253	1.253	1.260	1.252	0.59
46)		Acenaphthylene	2.088	2.003	1.978	1.896	1.791	1.746	1.938	6.06
47)		2,6-Dinitrotoluene	0.331	0.339	0.338	0.332	0.326	0.331	0.333	1.47
48)		2-Nitroaniline	0.422	0.425	0.415	0.411	0.409	0.413	0.419	1.83
49)	MC	Acenaphthene	1.254	1.192	1.182	1.135	1.093	1.077	1.165	5.07
50)	P	2,4-Dinitrophenol		0.155	0.179	0.194	0.208	0.213	0.177	21.68# L5,10
51)		Dibenzofuran	1.617	1.628	1.621	1.593	1.573	1.576	1.607	1.45
52)	MP	4-Nitrophenol		0.201	0.208	0.207	0.202	0.206	0.192	13.17# 5
53)		3-Nitroaniline	0.552	0.498	0.512	0.495	0.483	0.483	0.508	4.80
54)	M	2,4-Dinitrotoluene	0.380	0.425	0.435	0.431	0.435	0.438	0.418	5.54

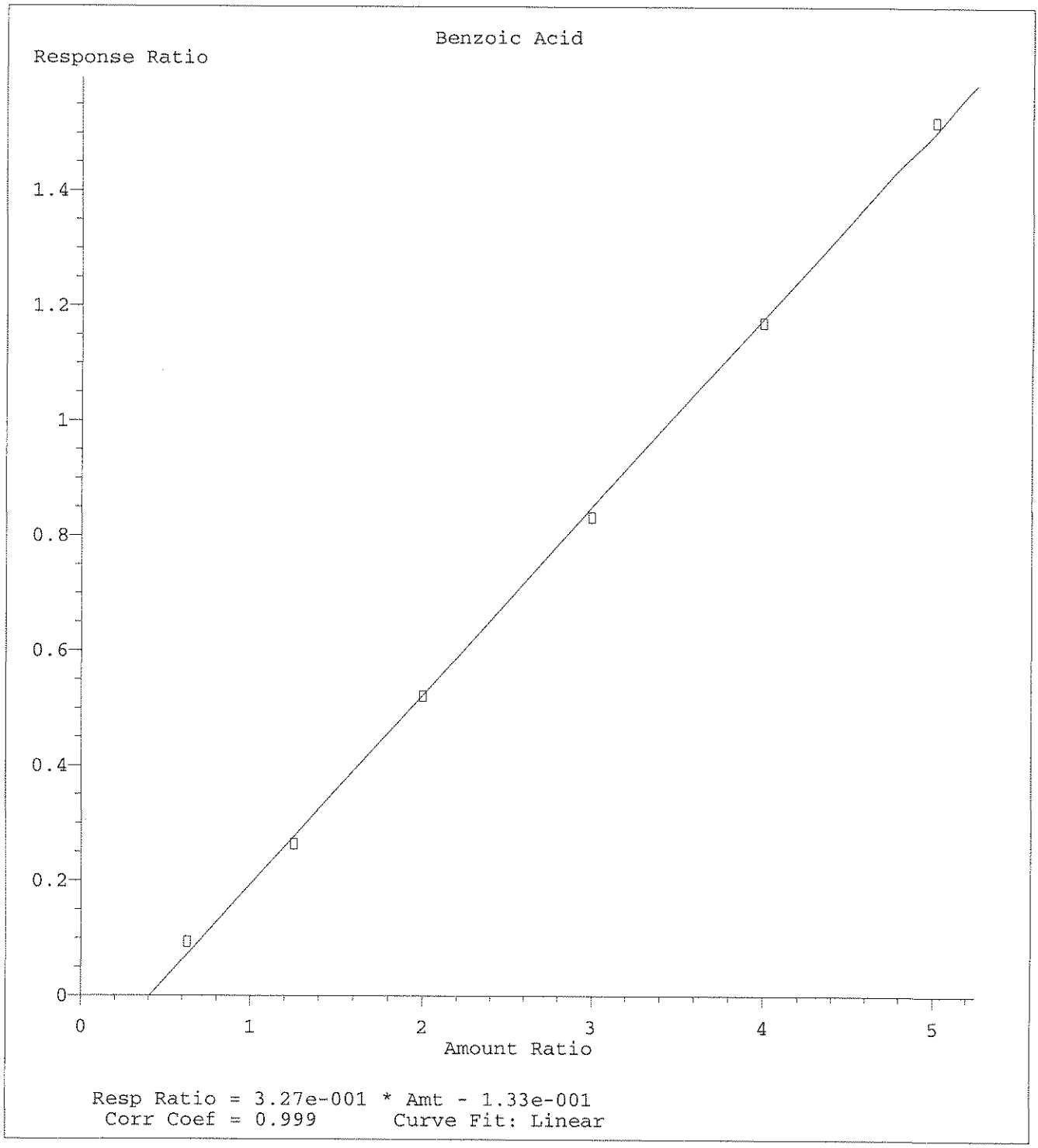
(#) = Out of Range ### Number of calibration levels exceeded format ###

Method : C:\HPCHEM\1\METHODS\SV1NF.M
Title : ELEMENT ID: 0606008(SOIL) 0606009(AQUEOUS)
Last Update : Tue Jun 06 16:37:55 2006
Response via : Initial Calibration

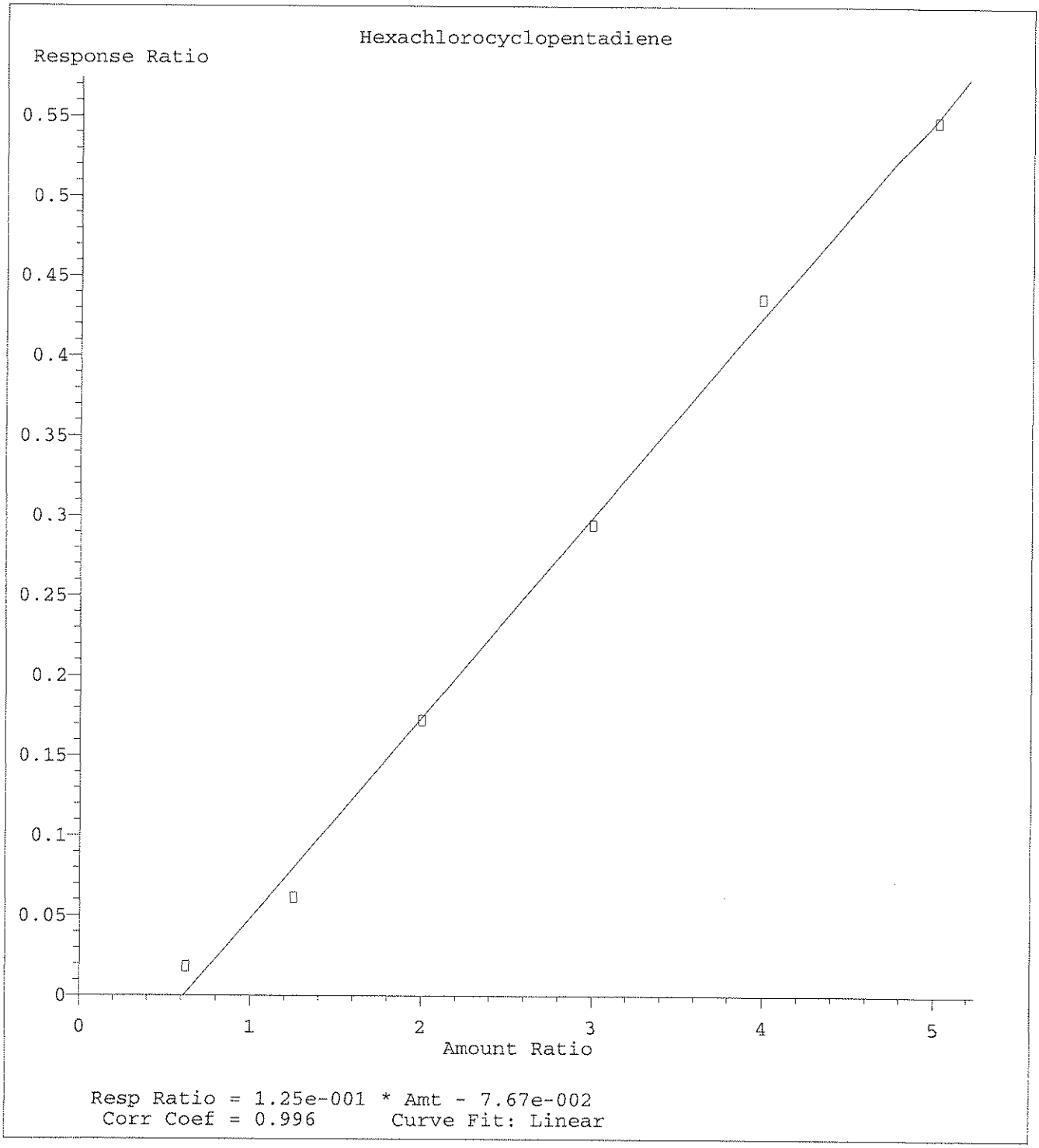
Calibration Files
5 =SV138957.D = 50 =SV138960.D
80 =SV138961.D 120 =SV138962.D 160 =SV138963.D

		Compound	5	50	80	120	160	Avg	%RSD	
55)		Fluorene	1.347	1.289	1.217	1.122	1.047	1.240	9.40	200
56)		2,3,4,6-Tetrachloro	0.231	0.277	0.292	0.289	0.280	0.281	0.271	7.68
57)		Diethylphthalate	1.278	1.231	1.241	1.226	1.212	1.204	1.230	1.83
58)		4-Chloro-phenyl-phe	0.555	0.540	0.501	0.444	0.389	0.560	0.506	13.06
59)	I	Phenanthrene-d10	----------ISTD----------							200
60)		4-Nitroaniline	0.305	0.333	0.333	0.331	0.325	0.320	0.323	3.03
61)		4,6-Dinitro-2-Methy	0.063	0.181	0.186	0.177	0.160	0.163	0.150	27.99 L
62)	C	N-nitrosodiphenylam	0.831	0.806	0.798	0.767	0.721	0.697	0.778	5.99
63)		Azobenzene	1.389	1.311	1.295	1.285	1.266	1.262	1.310	3.29
64)	S	2,4,6-Tribromopheno	0.081	0.101	0.102	0.103	0.102	0.103	0.097	8.62
65)		4-Bromophenyl-pheny	0.197	0.214	0.214	0.212	0.205	0.203	0.207	2.90
66)		Hexachlorobenzene	0.205	0.228	0.229	0.222	0.216	0.213	0.219	3.76
67)	MC	Pentachlorophenol		0.090	0.101	0.107	0.114	0.116	0.099	18.11 L 5/10
68)		Phenanthrene	1.294	1.210	1.185	1.175	1.126	1.141	1.195	4.35
69)		Anthracene	1.292	1.185	1.133	1.087	1.040	1.052	1.157	8.07
70)		Carbazole	1.259	1.226	1.212	1.177	1.137	1.180	1.204	3.13
71)		Di-n-butylphthalate	1.647	1.633	1.611	1.565	1.543	1.564	1.597	2.31
72)	C	Fluoranthene	1.150	1.207	1.188	1.160	1.123	1.094	1.153	3.12
73)		Benzidine	0.498	0.636	0.667	0.646	0.595	0.584	0.601	8.88
74)	I	Chrysene-d12	----------ISTD----------							
75)	M	Pyrene	1.737	1.817	1.868	1.860	1.895	1.877	1.813	4.06
76)	S	Terphenyl-d14 (SURR	1.040	1.118	1.088	1.071	1.079	1.044	1.070	2.81
77)		Butylbenzylphthalat	0.968	0.918	0.904	0.881	0.890	0.885	0.909	3.01
78)		3,3'-Dichlorobenzid	0.512	0.547	0.541	0.527	0.512	0.516	0.525	2.48
79)		Benzo(a)anthracene	1.459	1.565	1.587	1.600	1.646	1.608	1.555	4.45
80)		Chrysene	1.288	1.156	1.140	1.157	1.179	1.186	1.184	3.88
81)		bis(2-Ethylhexyl)ph	1.169	0.819	0.834	0.859	0.934	0.921	0.918	12.42
82)	I	Perylene-d12	----------ISTD----------							
83)	C	Di-n-octylphthalate	2.440	2.419	2.521	2.538	2.584	2.560	2.483	3.05
84)		Benzo(b)fluoranthen	1.449	2.037	1.878	1.885	1.981	1.758	1.789	10.90
85)		Benzo(k)fluoranthen	1.248	0.926	1.007	0.845	0.731	0.665	1.000	25.16 Q
86)	C	Benzo(a)pyrene	1.339	1.494	1.543	1.546	1.530	1.475	1.465	5.51
87)		Indeno(1,2,3-Cd)Pyr	1.063	1.271	1.319	1.363	1.161	1.025	1.189	10.31
88)		Dibenzo(a,h)Anthrac	0.882	1.062	1.111	1.155	1.035	0.930	1.010	9.58
89)		Benzo(g,h,i)perylen	0.893	1.043	1.088	1.144	0.851	0.982	0.989	10.93 200

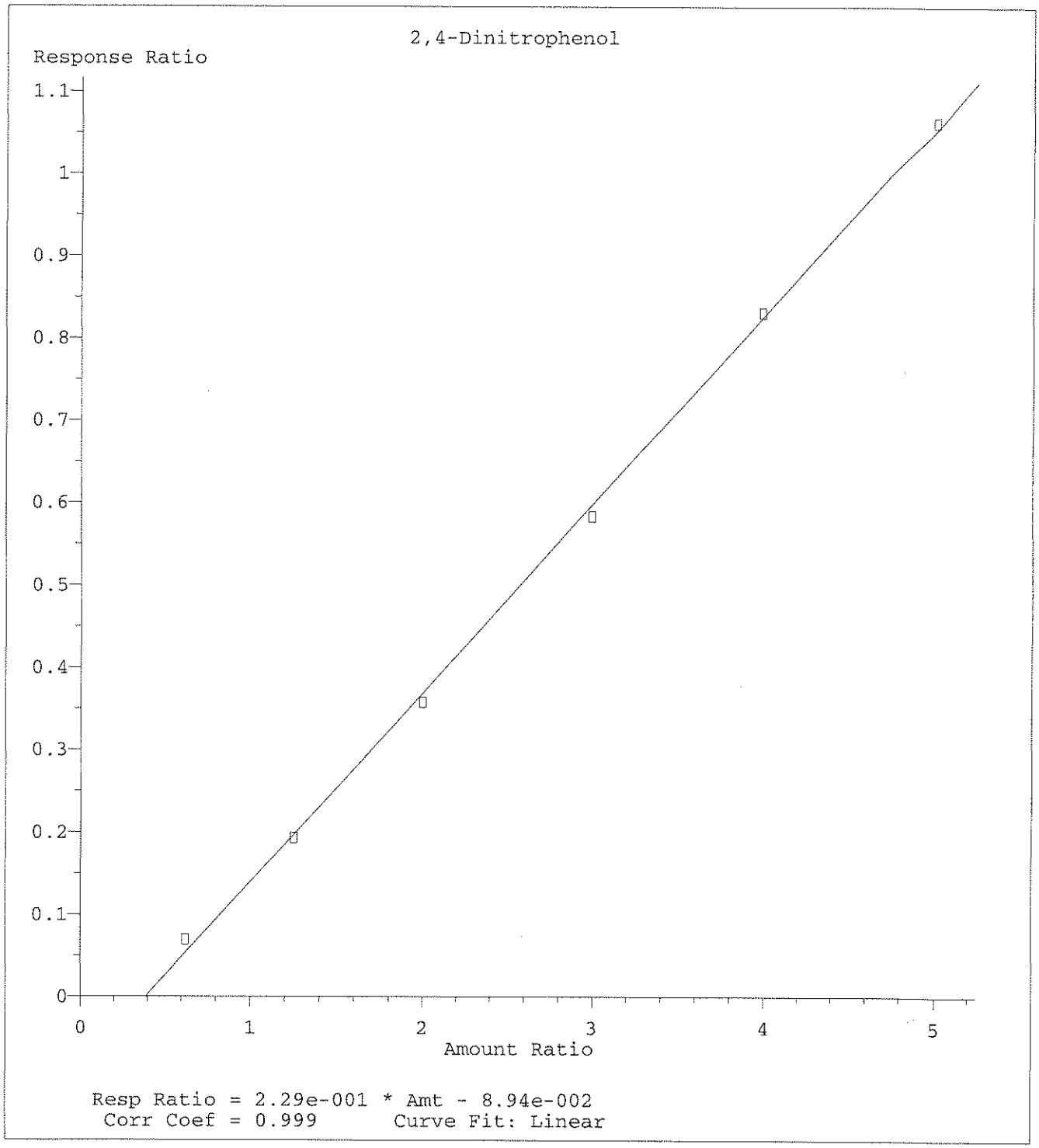
(#) = Out of Range ### Number of calibration levels exceeded format ###



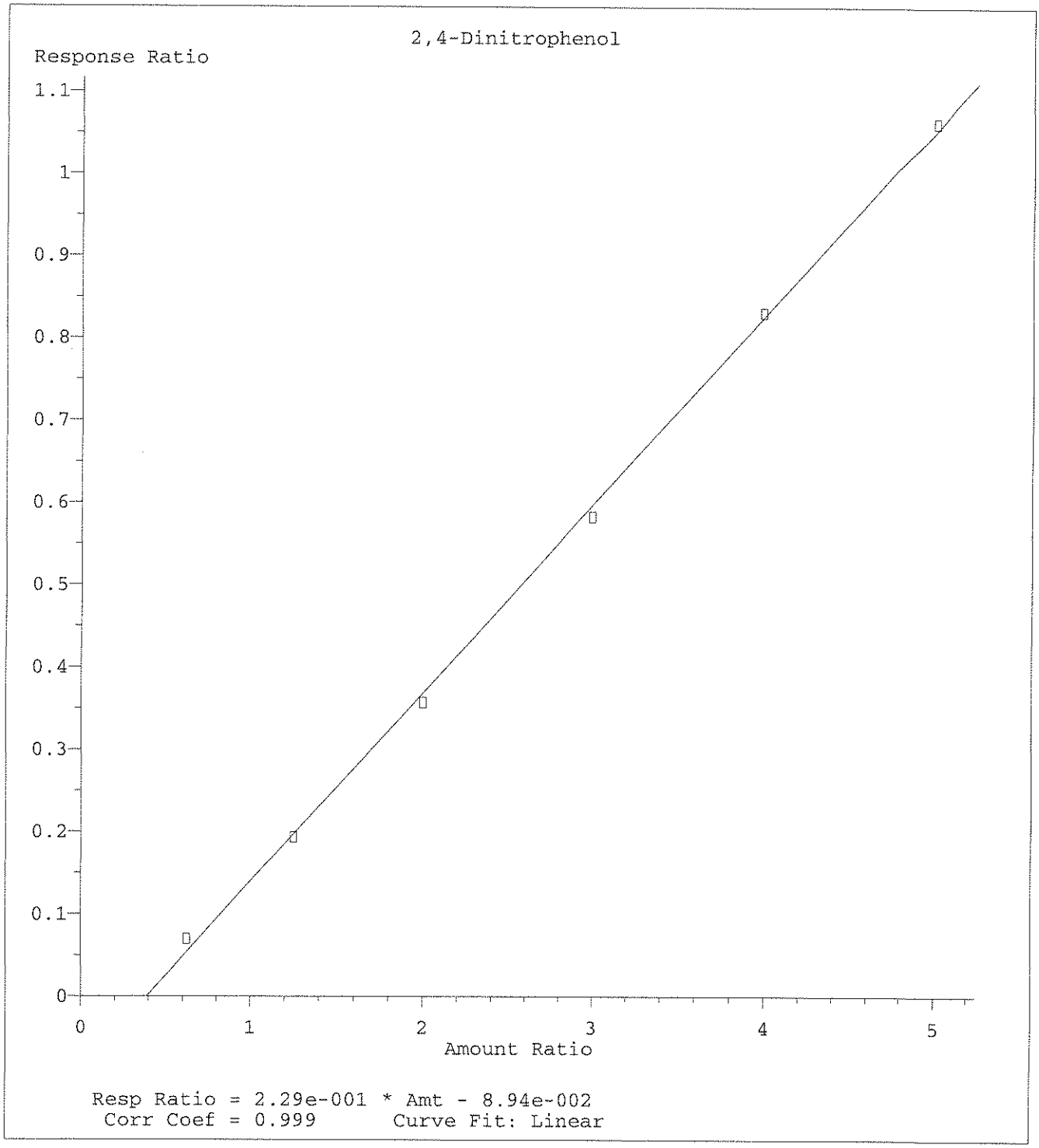
Method Name: C:\HPCHEM\1\METHODS\SV1NF.M
Calibration Table Last Updated: Wed Jul 19 20:45:25 2006



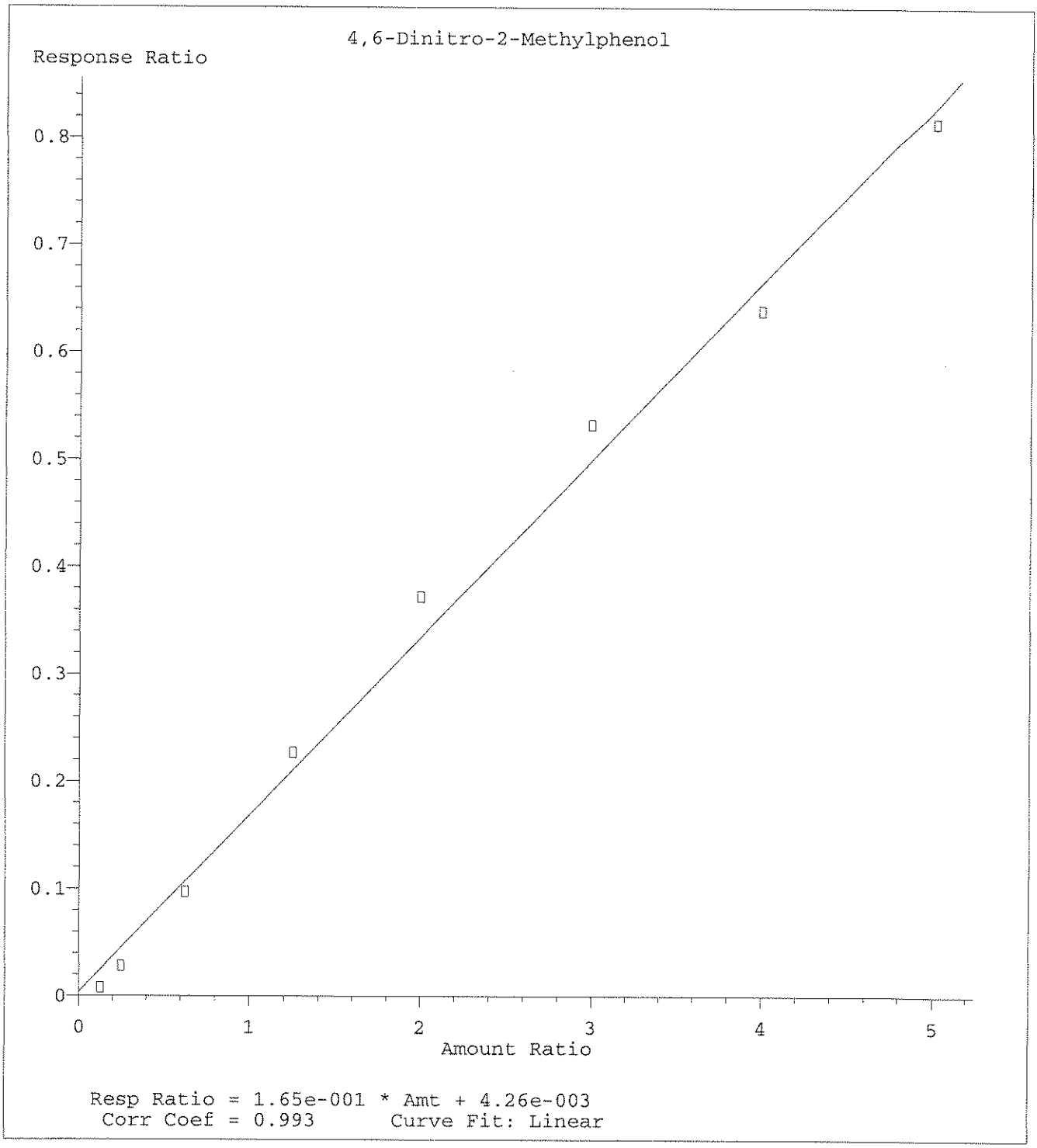
Method Name: C:\HPCHEM\1\METHODS\SV1NF.M
Calibration Table Last Updated: Wed Jul 19 20:45:25 2006



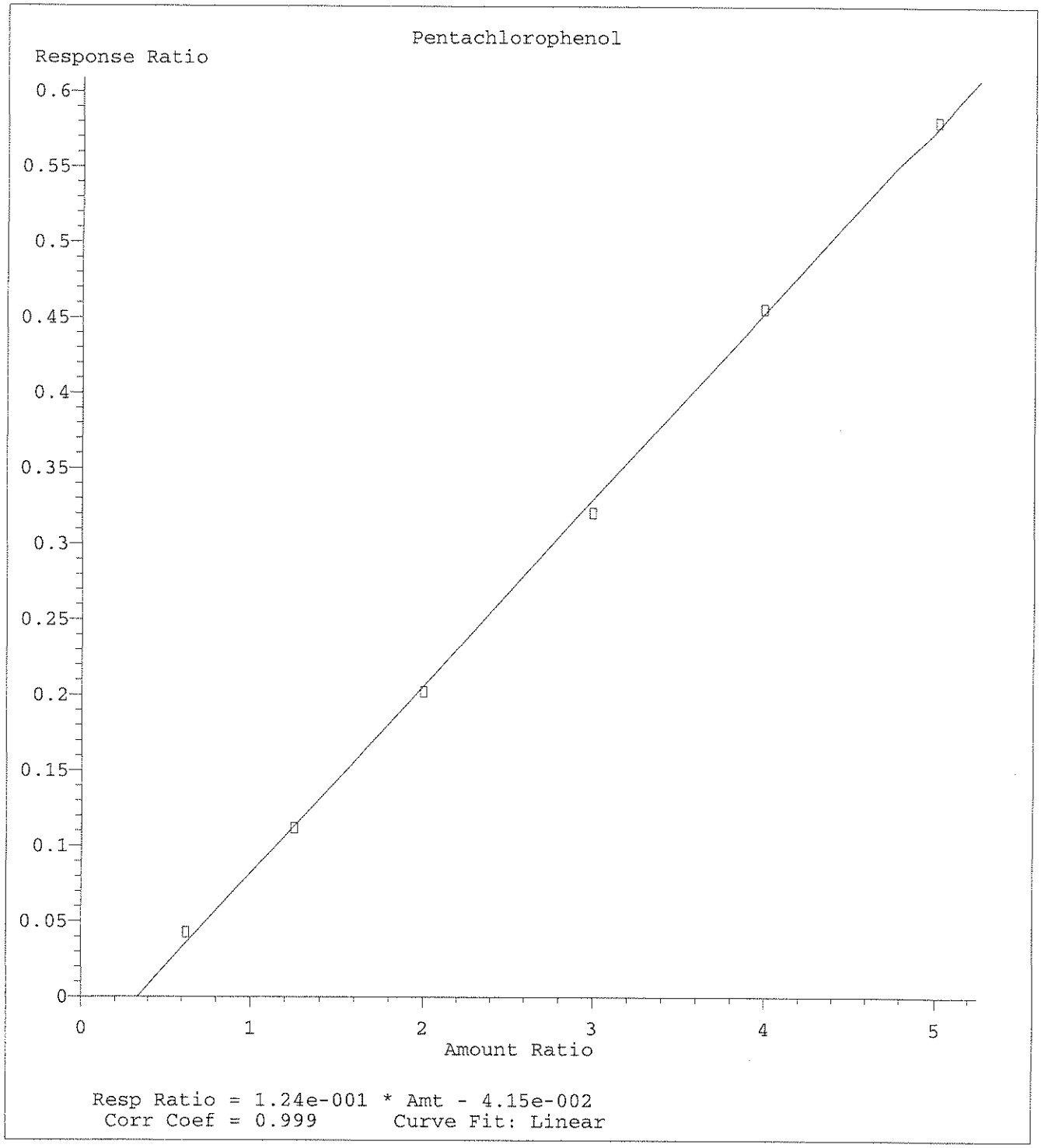
Method Name: C:\HPCHEM\1\METHODS\SV1NF.M
Calibration Table Last Updated: Wed Jul 19 20:45:25 2006



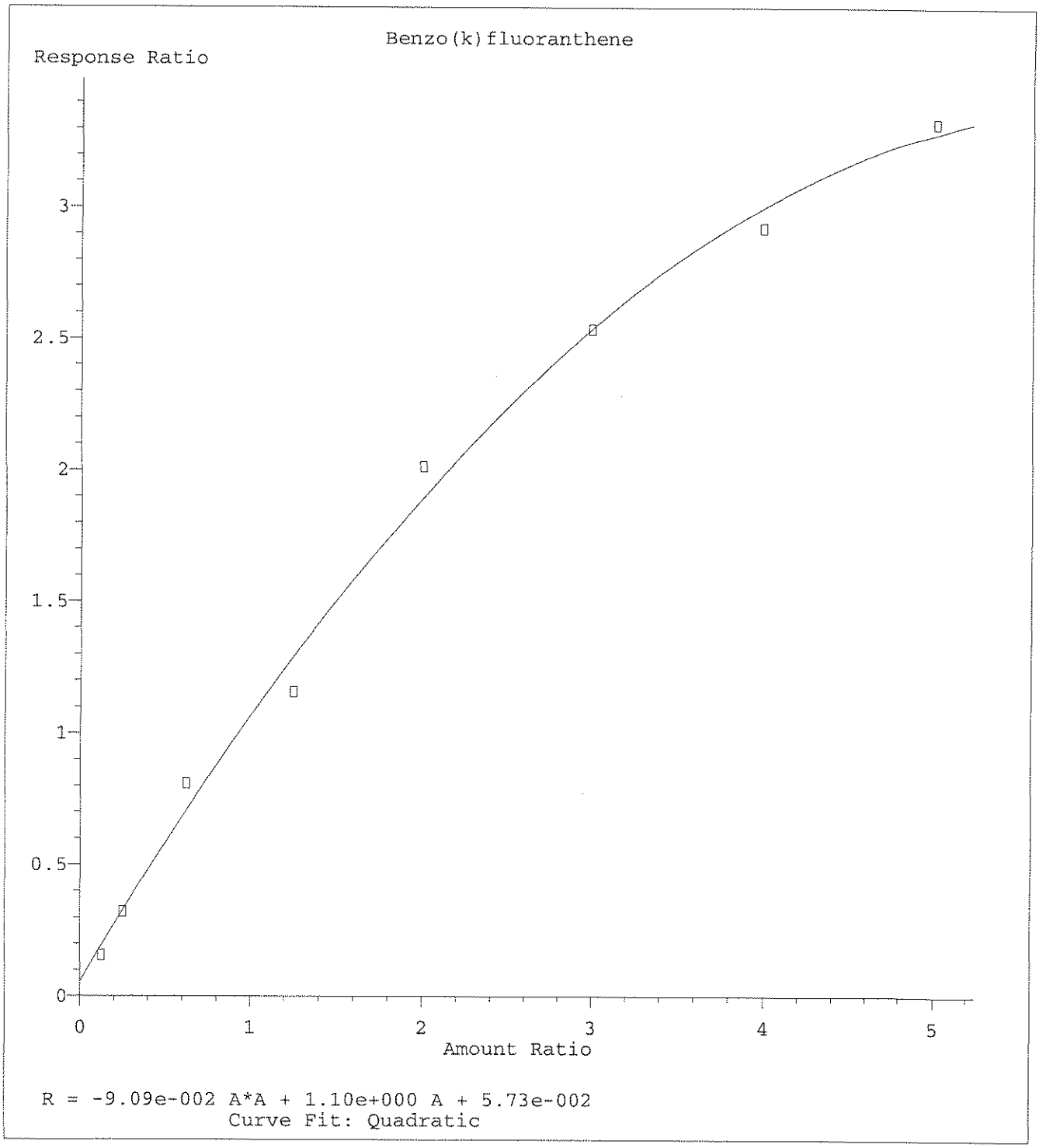
Method Name: C:\HPCHEM\1\METHODS\SV1NF.M
Calibration Table Last Updated: Wed Jul 19 20:45:25 2006



Method Name: C:\HPCHEM\1\METHODS\SV1NF.M
Calibration Table Last Updated: Wed Jul 19 20:45:25 2006



Method Name: C:\HPCHEM\1\METHODS\SV1NF.M
Calibration Table Last Updated: Wed Jul 19 20:45:25 2006



Method Name: C:\HPCHEM\1\METHODS\SV1NF.M
Calibration Table Last Updated: Wed Jul 19 20:45:25 2006

ANALYSIS SEQUENCE

BPF0107

Instrument: SVOA-MS1

Calibnration ID: ~~UNASSIGNED~~ SV/NF

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0107-TUN1	QC		1		6E31075		
BPF0107-CCV1	QC		2		6F06044	6F03035	
BF61201-BLK1	QC		3			6F03035	
BF61201-BS1	QC		4			6F03035	
BF61201-BSD1	QC		5			6F03035	
0606113-02	SVOC: 8270/3541 ppb PAH	A	6			6F03035	MACTEC Engineering & Consulting, In
0606113-04	SVOC: 8270/3541 ppb PAH	A	7			6F03035	MACTEC Engineering & Consulting, In
0606113-05	SVOC: 8270/3541 ppb PAH	A	8			6F03035	MACTEC Engineering & Consulting, In
0606113-06	SVOC: 8270/3541 ppb PAH	A	9			6F03035	MACTEC Engineering & Consulting, In
0606113-07	SVOC: 8270/3541 ppb PAH	A	10			6F03035	MACTEC Engineering & Consulting, In
0606113-08	SVOC: 8270/3541 ppb PAH	A	11			6F03035	MACTEC Engineering & Consulting, In
0606113-01	SVOC: 8270/3541 ppb PAH	A	12			6F03035	MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GCMS1 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/10/06	6	SV1 39078	~~0606070-03~~ -05 ✓	SVINF	Confirmation IS Failed	JBL
	7	SV1 79	0606070-08 ✓		6F09047	
	8	SV1 80	-09 ✓			
	9	SV1 81	-10 ✓			
	10	SV1 82	-12 ✓		x5	
	11	SV1 83	-06 ✓		~~x4~~ JTS 6/11/06	
6/10/06	12	SV1 84	0606070-07 ✓	SVINF	6F09047	JBL
6/12/06	1	SV1 85	-TUN1	BFTPP		JTS
	1	SV1 86	-CCV1	SVINF		
	1	SV1 87	BF0096 -TUN1 ✓	BFTPP	6E31075 BF0107 TUN1 SOL	
	2	SV1 88	BF0096 -CCV1 ✓	SVINF	6F06044	
	3	SV1 89	BF60322 - BLK1 ✓		6F09047	
	4	SV1 90	BF60922 - BS1 ✓			
	5	SV1 91	BF60922 - BSD1 ✓			
	6	SV1 92	0606112-01 ✓			
	7	SV1 93	0606135-01 ✓			
	8	SV1 94	0606137-01 ✓		RR 5X	
	9	SV1 95	0606143-01 ✓			
	10	SV1 96	-02 X		surr. failed reext.	
	11	SV1 97	0606086-01 X		surr. failed reext.	
	12	SV1 98	BF61201- BLK1 ✓			
	13	SV1 39099	BF61201 - BS1 ✓			
	14	SV1 39100	BF61201 - BSD1 ✓			
	15	SV1 01	0606113 - 02 ✓		RR LLPAH	
	16	SV1 02	-04 ✓			
	17	SV1 03	-08 ✓		RR LLPAH	
	18	SV1 04	-06 ✓		RR LLPAH	
	19	SV1 05	-07 ✓		RR LLPAH	
	20	SV1 06	-01 ✓		RR 4x	
6/12/06	21	SV1 07	0606113 - 03 ✓	SVINF	RR IS failed	JTS

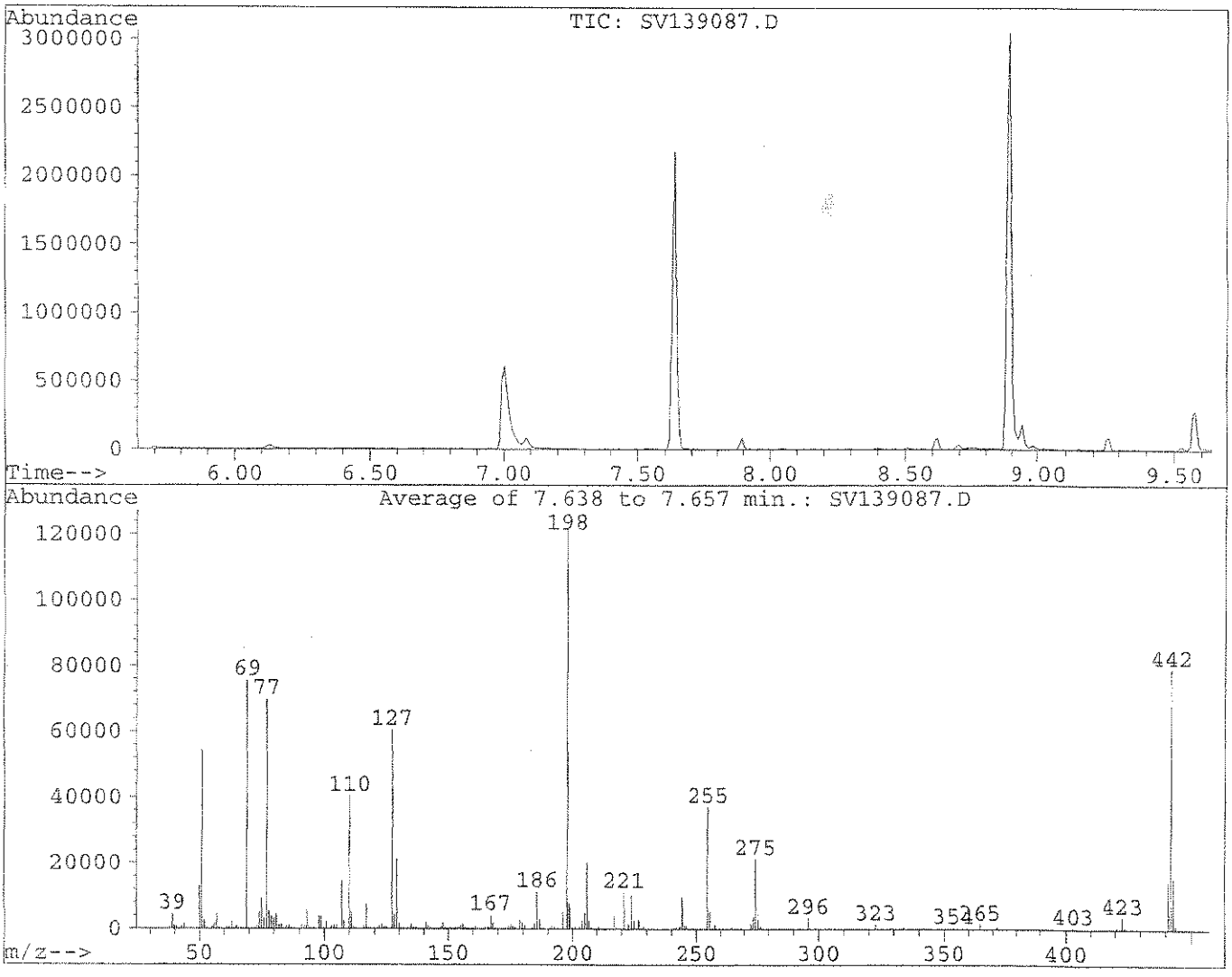
Control Number 60.0018-0601A

Page_________

DFTPP CLP

Data File : Q:\SVOA\MS1_MD\MD0606\MD061206\SV139087.D Vial: 1
Acq On : 12 Jun 106 12:22 pm Operator: JLS
Sample : BPF0096-TUN1 Inst : SVOA-MS1
Misc : BPF0107 -TUN1 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\DFTPP.M
Title : daily instrument eval mix



Peak Apex is scan: 198

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	44.8	54347	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	62.3	75608	PASS
70	69	0	2	0.2	185	PASS
127	198	40	60	49.8	60393	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	121357	PASS
199	198	5	9	6.3	7649	PASS
275	198	10	30	17.5	21273	PASS
365	198	1	100	1.1	1388	PASS
441	443	0	100	92.2	14445	PASS
442	198	40	110	65.1	79019	PASS
443	442	17	23	19.8	15663	PASS

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS1_MD\MD0606\MD061206\SV139088.D Vial: 2
Acq On : 12 Jun 106 12:42 pm Operator: JLS
Sample : BPF0096-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NF.M
Title : ELEMENT ID: 0606008(SOIL) 0606009(AQUEOUS)
Last Update : Fri Jun 09 13:48:26 2006
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	113	-0.11
2		N-Nitrosodimethylamine	0.185	0.140	24.3	82	-0.06
3		Pyridine	0.335	0.221	34.0#	84	-0.05
4	S	2-Fluorophenol (SURR)	1.595	1.658	-4.0	116	-0.12
5		bis(2-Chloroethyl)ether	1.847	1.867	-1.1	114	-0.11
6	S	Phenol-d5 (SURR)	2.056	2.150	-4.6	114	-0.10
7	M	2-Chlorophenol	1.529	1.558	-1.9	114	-0.12
8	MC	Phenol	2.614	2.700	-3.3	114	-0.11
9		Aniline	2.669	2.828	-6.0	115	-0.11
10	S	2-Chlorophenol-d4(SURR)	1.489	1.558	-4.6	117	-0.11
11		1,3-Dichlorobenzene	1.495	1.494	0.1	112	-0.11
12	MC	1,4-Dichlorobenzene	1.568	1.570	-0.1	109	-0.11
13	S	1,2 Dichlorobenzene-d4(SURR	0.844	0.894	-5.9	114	-0.11
14		1,2-Dichlorobenzene	1.342	1.424	-6.1	112	-0.11
15		Benzyl Alcohol	1.143	1.202	-5.2	113	-0.12
16		bis(2-chloroisopropyl)Ether	2.370	2.484	-4.8	116	-0.11
17		2-Methylphenol	1.474	1.481	-0.4	114	-0.11
18		Acetophenone	1.857	1.868	-0.6	113	-0.11
19	MP	N-Nitroso-Di-n-Propylamine	1.069	1.096	-2.5	113	-0.12
20		Hexachloroethane	0.589	0.626	-6.2	114	-0.12
21		3+4-Methylphenol	1.510	1.590	-5.3	115	-0.12
22	I	Naphthalene-d8	1.000	1.000	0.0	112	-0.12
23	S	Nitrobenzene-d5 (SURR)	0.394	0.397	-0.6	113	-0.12
24		Nitrobenzene	0.407	0.406	0.2	110	-0.12
25		Isophorone	0.801	0.782	2.3	110	-0.12
26	C	2-Nitrophenol	0.218	0.226	-3.8	114	-0.12
27		Benzoic Acid	0.249	0.213	14.4	113	-0.12
28		2,4-Dimethylphenol	0.344	0.344	0.1	113	-0.12
29		bis(2-Chloroethoxy)methane	0.532	0.534	-0.3	111	-0.12
30	C	2,4-Dichlorophenol	0.267	0.267	0.0	108	-0.12
31	M	1,2,4-Trichlorobenzene	0.270	0.267	1.1	107	-0.12
32		Naphthalene	1.025	1.033	-0.8	109	-0.12
33		4-Chloroaniline	0.450	0.482	-7.2	111	-0.12
34	C	Hexachlorobutadiene	0.102	0.101	1.2	106	-0.13
35	MC	4-Chloro-3-Methylphenol	0.303	0.309	-1.9	110	-0.14
36		2-Methylnaphthalene	0.631	0.626	0.7	107	-0.14
37		1-Methylnaphthalene	0.622	0.625	-0.4	109	-0.15
38	I	Acenaphthene-d10	1.000	1.000	0.0	104	-0.17
39	P	Hexachlorocyclopentadiene	0.080	0.055	31.4#	116	-0.15
40	C	2,4,6-Trichlorophenol	0.326	0.332	-1.9	105	-0.15
41		2,4,5-Trichlorophenol	0.347	0.367	-5.9	104	-0.15
42	S	2-Fluorobiphenyl (SURR)	1.205	1.313	-9.0	109	-0.15
43		Biphenyl	1.397	1.513	-8.3	108	-0.16
44		2-Chloronaphthalene	1.251	1.322	-5.6	110	-0.16
45		Dimethylphthalate	1.252	1.235	1.3	103	-0.16
46		Acenaphthylene	1.938	2.017	-4.1	105	-0.16
47		2,6-Dinitrotoluene	0.333	0.329	1.1	101	-0.16
48		2-Nitroaniline	0.419	0.432	-3.2	106	-0.16
49	MC	Acenaphthene	1.165	1.188	-2.0	104	-0.17
50	P	2,4-Dinitrophenol	0.177	0.153	13.5	103	-0.16
51		Dibenzofuran	1.607	1.600	0.5	102	-0.17
52	MP	4-Nitrophenol	0.192	0.178	7.4	92	-0.16
53		3-Nitroaniline	0.508	0.510	-0.4	106	-0.17

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS1_MD\MD0606\MD061206\SV139088.D Vial: 2
Acq On : 12 Jun 106 12:42 pm Operator: JLS
Sample : BPF0096-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NF.M
Title : ELEMENT ID: 0606008(SOIL) 0606009(AQUEOUS)
Last Update : Fri Jun 09 13:48:26 2006
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	M	2,4-Dinitrotoluene	0.418	0.412	1.2	101	-0.17
55		Fluorene	1.240	1.307	-5.4	105	-0.17
56		2,3,4,6-Tetrachlorophenol	0.271	0.259	4.2	97	-0.17
57		Diethylphthalate	1.230	1.241	-0.9	105	-0.17
58		4-Chloro-phenyl-phenyl ethe	0.506	0.526	-4.0	101	-0.17
59	I	Phenanthrene-d10	1.000	1.000	0.0	100	-0.18
60		4-Nitroaniline	0.323	0.339	-4.9	102	-0.18
61		4,6-Dinitro-2-Methylphenol	0.150	0.179	-19.4	99	-0.17
62	C	N-nitrosodiphenylamine	0.778	0.842	-8.3	105	-0.17
63		Azobenzene	1.310	1.389	-6.1	106	-0.17
64	S	2,4,6-Tribromophenol (SURR)	0.097	0.093	4.3	92	-0.17
65		4-Bromophenyl-phenylether	0.207	0.208	-0.2	97	-0.18
66		Hexachlorobenzene	0.219	0.213	2.7	93	-0.18
67	MC	Pentachlorophenol	0.099	0.079	20.6	88	-0.18
68		Phenanthrene	1.195	1.232	-3.1	102	-0.18
69		Anthracene	1.157	1.220	-5.5	103	-0.19
70		Carbazole	1.204	1.235	-2.5	101	-0.18
71		Di-n-butylphthalate	1.597	1.655	-3.6	102	-0.18
72	C	Fluoranthene	1.153	1.148	0.4	95	-0.18
73		Benzidine	0.601	0.635	-5.7	100	-0.19
74	I	Chrysene-d12	1.000	1.000	0.0	105	-0.19
75	M	Pyrene	1.813	1.697	6.4	98	-0.19
76	S	Terphenyl-d14 (SURR)	1.070	1.049	1.9	98	-0.18
77		Butylbenzylphthalate	0.909	0.938	-3.3	107	-0.18
78		3,3'-Dichlorobenzidine	0.525	0.524	0.2	101	-0.19
79		Benzo(a)anthracene	1.555	1.476	5.1	99	-0.20
80		Chrysene	1.184	1.200	-1.3	109	-0.20
81		bis(2-Ethylhexyl)phthalate	0.918	0.890	3.1	114	-0.18
82	I	Perylene-d12	1.000	1.000	0.0	115	-0.20
83	C	Di-n-octylphthalate	2.483	2.372	4.5	113	-0.18
84		Benzo(b)fluoranthene	1.789	1.871	-4.6	105	-0.20
85		Benzo(k)fluoranthene	1.000	0.968	3.2	120	-0.20
86	C	Benzo(a)pyrene	1.465	1.358	7.3	104	-0.20
87		Indeno(1,2,3-Cd)Pyrene	1.189	1.199	-0.9	108	-0.22
88		Dibenzo(a,h)Anthracene	1.010	1.015	-0.5	110	-0.22
89		Benzo(g,h,i)perylene	0.989	0.929	6.1	102	-0.23

Quantitation Report

Data File : Q:\SVOA\MS1_MD\MD0606\MD061206\SV139088.D Vial: 2
Acq On : 12 Jun 106 12:42 pm Operator: JLS
Sample : BPF0096-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jun 12 14:07 19106

Method : C:\HPCHEM\1\METHODS\SV1NF.M
Title : ELEMENT ID: 0606008(SOIL) 0606009(AQUEOUS)
Last Update : Fri Jun 09 13:48:26 2006
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.25	152	814666	40.00	ng/uL	0.00
22) Naphthalene-d8	5.68	136	2966830	40.00	ng/uL	0.00
38) Acenaphthene-d10	8.22	164	1306747	40.00	ng/uL	0.00
59) Phenanthrene-d10	10.88	188	1722503	40.00	ng/uL	0.00
74) Chrysene-d12	16.11	240	1174661	40.00	ng/uL	0.00
82) Perylene-d12	18.77	264	963315	40.00	ng/uL	0.00
System Monitoring Compounds						%Recovery
4) 2-Fluorophenol (SURR)	2.72	112	1688608	51.99	ng/uL	34.66%
6) Phenol-d5 (SURR)	3.97	99	2189196	52.28	ng/uL	34.85%
10) 2-Chlorophenol-d4(SURR)	4.06	132	1586277	52.31	ng/uL	34.87%
13) 1,2 Dichlorobenzene-d4(SUR	4.45	152	910120	52.95	ng/uL	52.95%
23) Nitrobenzene-d5 (SURR)	4.90	82	1471896	50.32	ng/uL	50.32%
42) 2-Fluorobiphenyl (SURR)	7.15	172	2145303	54.50	ng/uL	54.50%
64) 2,4,6-Tribromophenol (SURR	9.64	330	199506	47.86	ng/uL	31.91%
76) Terphenyl-d14 (SURR)	14.04	244	1540836	49.03	ng/uL	49.03%
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	1.01	74	142958	37.84	ng/uL	89
3) Pyridine	1.01	79	225475	33.02	ng/ul	81
5) bis(2-Chloroethyl)ether	4.03	93	1901253	50.53	ng/uL	96
7) 2-Chlorophenol	4.07	128	1586623	50.94	ng/uL	98
8) Phenol	3.98	94	2749916	51.66	ng/uL	86
9) Aniline	3.96	93	2879538	52.98	ng/ul	90
11) 1,3-Dichlorobenzene	4.21	146	1521418	49.97	ng/uL	99
12) 1,4-Dichlorobenzene	4.27	146	1598863	50.06	ng/uL	100
14) 1,2-Dichlorobenzene	4.46	146	1449886	53.06	ng/uL	99
15) Benzyl Alcohol	4.44	79	1224362	52.59	ng/ul	97
16) bis(2-chloroisopropyl)Ethe	4.59	45	2529854	52.41	ng/uL	98
17) 2-Methylphenol	4.59	108	1508032	50.22	ng/uL	99
18) Acetophenone	4.73	105	1901966	50.28	ng/ul	98
19) N-Nitroso-Di-n-Propylamine	4.75	70	1115693	51.27	ng/uL	100
20) Hexachloroethane	4.78	117	637100	53.11	ng/uL	90
21) 3+4-Methylphenol	4.76	108	1618782	52.65	ng/uL	97
24) Nitrobenzene	4.92	77	1505720	49.89	ng/uL	91
25) Isophorone	5.17	82	2901824	48.83	ng/uL	100
26) 2-Nitrophenol	5.27	139	838517	51.91	ng/uL	93
27) Benzoic Acid	5.56	105	790715	48.78	ng/uL	99
28) 2,4-Dimethylphenol	5.33	107	1275569	49.93	ng/uL	98
29) bis(2-Chloroethoxy)methane	5.41	93	1980806	50.16	ng/uL	97
30) 2,4-Dichlorophenol	5.55	162	991371	49.99	ng/uL	96
31) 1,2,4-Trichlorobenzene	5.63	180	989991	49.43	ng/uL	100
32) Naphthalene	5.70	128	3831919	50.38	ng/uL	99
33) 4-Chloroaniline	5.81	127	1789095	53.62	ng/uL	100
34) Hexachlorobutadiene	5.90	225	374550	49.39	ng/uL	99
35) 4-Chloro-3-Methylphenol	6.46	107	1146081	50.95	ng/uL	97
36) 2-Methylnaphthalene	6.59	142	2323165	49.67	ng/uL	99
37) 1-Methylnaphthalene	6.74	142	2317906	50.22	ng/ul	98
39) Hexachlorocyclopentadiene	6.90	237	89775	46.43	ng/uL	99
40) 2,4,6-Trichlorophenol	7.07	196	542098	50.93	ng/uL	99
41) 2,4,5-Trichlorophenol	7.14	196	599571	52.95	ng/uL	100
43) Biphenyl	7.29	154	2471362	54.16	ng/ul	98
44) 2-Chloronaphthalene	7.31	162	2159077	52.82	ng/uL	99
45) Dimethylphthalate	7.87	163	2017301	49.33	ng/uL	99
46) Acenaphthylene	7.97	152	3294130	52.04	ng/uL	98
47) 2,6-Dinitrotoluene	8.01	165	537328	49.43	ng/uL	99
48) 2-Nitroaniline	7.56	65	706237	51.62	ng/uL	91

(#) = qualifier out of range (m) = manual integration

Data File : Q:\SVOA\MS1_MD\MD0606\MD061206\SV139088.D Vial: 2
Acq On : 12 Jun 106 12:42 pm Operator: JLS
Sample : BPF0096-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jun 12 14:07 19106

Method : C:\HPCHEM\1\METHODS\SV1NF.M
Title : ELEMENT ID: 0606008(SOIL) 0606009(AQUEOUS)
Last Update : Fri Jun 09 13:48:26 2006
Response via : Single Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49)	Acenaphthene	8.28	153	1940558	50.98	ng/uL	99
50)	2,4-Dinitrophenol	8.45	184	249371	48.97	ng/uL	97
51)	Dibenzofuran	8.55	168	2612827	49.77	ng/uL	98
52)	4-Nitrophenol	8.60	65	290534	46.29	ng/uL	96
53)	3-Nitroaniline	8.24	65	832950	50.21	ng/uL	97
54)	2,4-Dinitrotoluene	8.69	165	673526	49.38	ng/uL	100
55)	Fluorene	9.15	166	2135086	52.69	ng/uL	97
56)	2,3,4,6-Tetrachlorophenol	8.86	232	423866	47.91	ng/ul	97
57)	Diethylphthalate	9.08	149	2026695	50.43	ng/uL	99
58)	4-Chloro-phenyl-phenyl eth	9.15	204	858947	51.98	ng/uL	98
60)	4-Nitroaniline	9.34	138	730294	52.45	ng/uL	98
61)	4,6-Dinitro-2-Methylphenol	9.42	198	384821	53.09	ng/uL	85
62)	N-nitrosodiphenylamine	9.41	169	1813542	54.16	ng/uL	99
63)	Azobenzene	9.44	77	2991767	53.03	ng/ul	99
65)	4-Bromophenyl-phenylether	10.03	248	447515	50.08	ng/uL	94
66)	Hexachlorobenzene	10.31	284	457754	48.64	ng/uL	97
67)	Pentachlorophenol	10.69	266	169939	45.32	ng/uL	97
68)	Phenanthrene	10.93	178	2652287	51.55	ng/uL	99
69)	Anthracene	11.01	178	2627182	52.73	ng/uL	99
70)	Carbazole	11.36	167	2658749	51.27	ng/uL	99
71)	Di-n-butylphthalate	12.16	149	3564324	51.82	ng/uL	100
72)	Fluoranthene	13.24	202	2471397	49.78	ng/uL	100
73)	Benzidine	13.57	184	1367262	52.87	ng/ul	94
75)	Pyrene	13.68	202	2491619	46.79	ng/uL	95
77)	Butylbenzylphthalate	15.11	149	1377923	51.64	ng/uL	99
78)	3,3'-Dichlorobenzidine	16.10	252	769715	49.88	ng/uL	97
79)	Benzo(a)anthracene	16.07	228	2167105	47.46	ng/uL	99
80)	Chrysene	16.16	228	1762500	50.67	ng/uL	99
81)	bis(2-Ethylhexyl)phthalate	16.30	149	1307228	48.47	ng/uL	99
83)	Di-n-octylphthalate	17.46	149	2856230	47.76	ng/uL	99
84)	Benzo(b)fluoranthene	18.14	252	2252965	52.29	ng/uL	95
85)	Benzo(k)fluoranthene	18.18	252	1165113	46.34	ng/uL	96
86)	Benzo(a)pyrene	18.68	252	1634958	46.33	ng/uL	97
87)	Indeno(1,2,3-Cd)Pyrene	20.47	276	1443781	50.43	ng/uL	88
88)	Dibenzo(a,h)Anthracene	20.48	278	1222288	50.24	ng/uL	92
89)	Benzo(g,h,i)perylene	20.87	276	1118143	46.97	ng/uL	99

(#) = qualifier out of range (m) = manual integration

ANALYSIS SEQUENCE

BPF0118

Instrument: SVOA-MS1

Calibnration ID: ~~UNASSIGNED~~ SVINI

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0118-TUN1	QC		1		6E31075		
BPF0118-CCV1	QC		2		6F06044	6F03035	
0606113-03	SVOC: 8270/3541 ppb PAH	A	3			6F03035	MACTEC Engineering & Consulting, In
0606113-12	SVOC: 8270/3541 ppb PAH	A	4			6F03035	MACTEC Engineering & Consulting, In
0606113-13	SVOC: 8270/3541 ppb PAH	A	5			6F03035	MACTEC Engineering & Consulting, In
0606113-15	SVOC: 8270/3541 ppb PAH	A	6			6F03035	MACTEC Engineering & Consulting, In
0606113-17	SVOC: 8270/3541 ppb PAH	A	7			6F03035	MACTEC Engineering & Consulting, In
BF61201-MS1	QC		8			6F03035	
BF61201-MSD1	QC		9			6F03035	

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GCMS1 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/12/06	22	SV1 391-08	0606113-03 ✓	SVINF	RRIS Failed	JES
6/13/06	1	SV1 09	BPF0101-TUNE	DFTPP	6E31075 BPF0118 Soil-Tune	JSC
	2	SV1 10	BPF0101-CCV	SVINF	6F06044	
	3	SV1 11	BF61220-BLK1		6F09047	
	4	SV1 12	BF61220-BS1			
	5	SV1 13	BF61220-BSD1			
	6	SV1 14	0606163-01			
	7	SV1 15	0606113-15			
	8	SV1 16	-17			
	9	~~SV1 17~~	-17ms			
	10	SV1 18	-17msd			
	11	SV1 19	0606137-01		5X RR Bad INJ.	
	12	SV1 20	0606086-01			
	13	SV1 21	0606137-01		5X	
	14	SV1 22	0606113-13			
	15	SV1 23	-12			
	16	SV1 24	-16		RR IS Failed	
	17	SV1 25	-03		~~5X~~ M 6/15/06	
	18	SV1 26	-01		5X ~~Failed RR~~ M 6/14/06	
	19	SV1 27	-09		IS Failed RR	
	20	SV1 28	-10		IS Failed RR	
	21	SV1 29	-11		IS Failed RR	
6/13/06	22	SV1 30	0606113-14	SVINF	IS Failed RR	JSC
6/14/06	1	SV1 31	BPF0111-Tune RR	DFTPP	6E31075 BPF0118 Soil-Tune	JSC
	2	SV1 32	BPF0111-CCV1	SVINF	6F06044	JSC
	3	SV1 33	BF61215-BLK1		6F09047	
	4	SV1 34	BF61215-BS1			
	5	SV1 35	BF61215-BSD1			
	6	SV1 36	0606086-04			
6/14/06	7	SV1 37	0606136-05	SVINF	6F09047	JSC

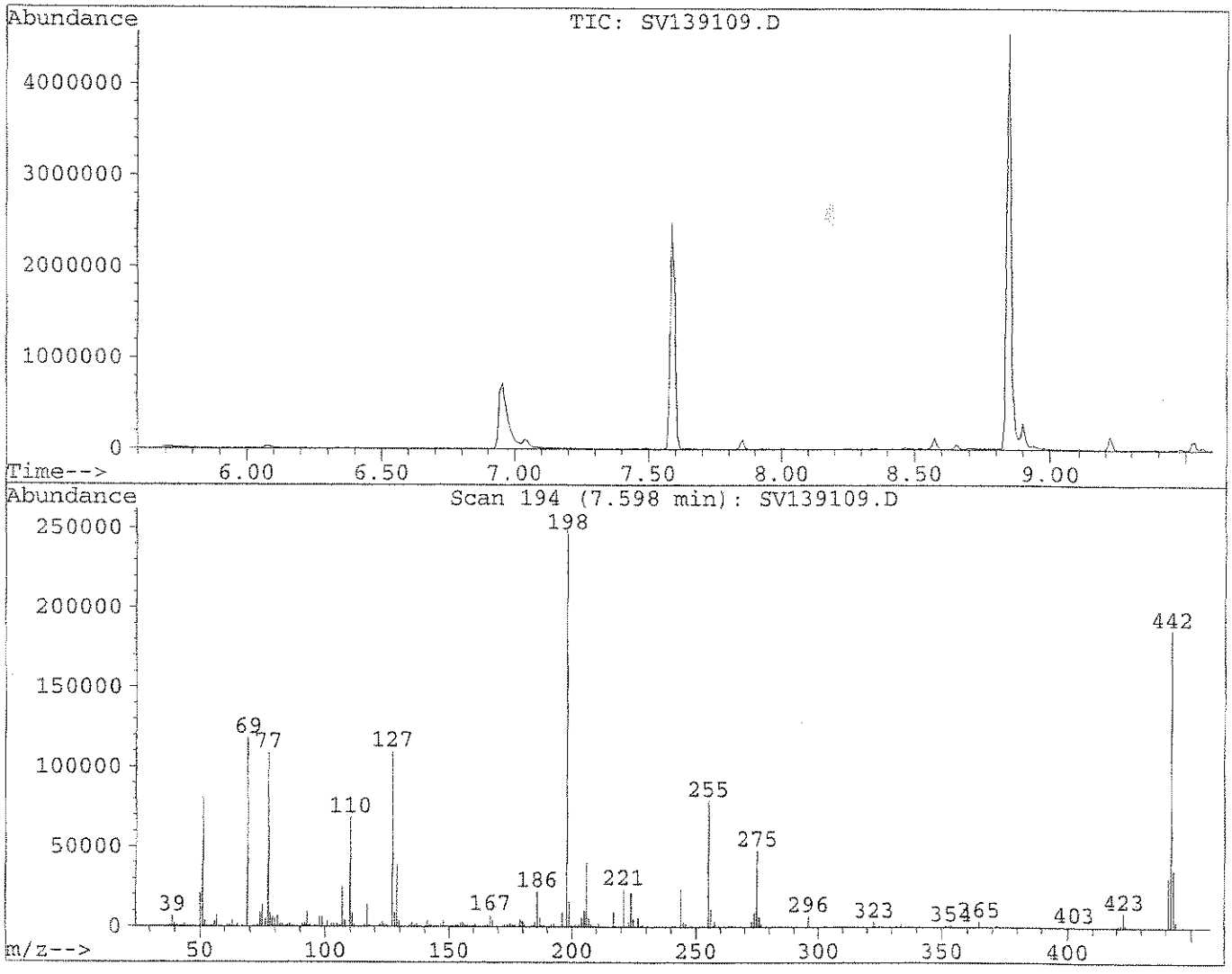
Control Number 60.0018-0601A

Page__________

DFTPP CLP

Data File : Q:\SVOA\MS1_MD\MD0606\MD061306\SV139109.D Vial: 1
Acq On : 13 Jun 106 9:38 am Operator: VSC
Sample : BPF0101-TUN1 Inst : SVOA-MS1
Misc : BPF0118 - Tun1 Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\DFTPP.M
Title : daily instrument eval mix



Peak Apex is scan: 194

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	32.3	80472	PASS
68	69	0	2	0.0	0	PASS
69	198	0	100	47.3	117984	PASS
70	69	0	2	0.0	0	PASS
127	198	40	60	44.0	109656	PASS
197	198	0	1	0.0	0	PASS
198	198	100	100	100.0	249344	PASS
199	198	5	9	6.3	15813	PASS
275	198	10	30	19.2	47896	PASS
365	198	1	100	1.4	3472	PASS
441	443	0	100	86.8	31152	PASS
442	198	40	110	74.6	186048	PASS
443	442	17	23	19.3	35888	PASS

SV139109.D DFTPP.M Tue Jun 13 10:29:13 2006

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS1_MD\MD0606\MD061306\SV139110.D Vial: 2
Acq On : 13 Jun 106 9:58 am Operator: VSC
Sample : BPF0101-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NF.M
Title : ELEMENT ID: 0606008(SOIL) 0606009(AQUEOUS)
Last Update : Fri Jun 09 13:48:26 2006
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	133	-0.14
2		N-Nitrosodimethylamine	0.185	0.133	28.4	91	-0.07
3		Pyridine	0.335	0.233	30.6#	104	-0.06
4	S	2-Fluorophenol (SURR)	1.595	1.685	-5.7	139	-0.18
5		bis(2-Chloroethyl)ether	1.847	1.880	-1.8	135	-0.14
6	S	Phenol-d5 (SURR)	2.056	2.141	-4.1	134	-0.13
7	M	2-Chlorophenol	1.529	1.533	-0.2	131	-0.15
8	MC	Phenol	2.614	2.627	-0.5	130	-0.14
9		Aniline	2.669	2.793	-4.6	134	-0.14
10	S	2-Chlorophenol-d4(SURR)	1.489	1.565	-5.1	138	-0.14
11		1,3-Dichlorobenzene	1.495	1.510	-1.0	133	-0.14
12	MC	1,4-Dichlorobenzene	1.568	1.547	1.4	126	-0.15
13	S	1,2 Dichlorobenzene-d4(SURR	0.844	0.889	-5.3	133	-0.15
14		1,2-Dichlorobenzene	1.342	1.402	-4.5	130	-0.15
15		Benzyl Alcohol	1.143	1.194	-4.5	132	-0.15
16		bis(2-chloroisopropyl)Ether	2.370	2.469	-4.2	135	-0.15
17		2-Methylphenol	1.474	1.601	-8.6	145	0.02
18		Acetophenone	1.857	1.873	-0.8	133	-0.15
19	MP	N-Nitroso-Di-n-Propylamine	1.069	1.101	-3.1	134	-0.15
20		Hexachloroethane	0.589	0.629	-6.8	135	-0.16
21		3+4-Methylphenol	1.510	1.617	-7.1	137	-0.15
22	I	Naphthalene-d8	1.000	1.000	0.0	133	-0.17
23	S	Nitrobenzene-d5 (SURR)	0.394	0.393	0.4	132	-0.16
24		Nitrobenzene	0.407	0.412	-1.3	133	-0.16
25		Isophorone	0.801	0.785	2.0	131	-0.15
26	C	2-Nitrophenol	0.218	0.227	-4.1	135	-0.16
27		Benzoic Acid	0.249	0.244	1.9	154	-0.15
28		2,4-Dimethylphenol	0.344	0.344	-0.0	134	-0.15
29		bis(2-Chloroethoxy)methane	0.532	0.521	2.1	129	-0.16
30	C	2,4-Dichlorophenol	0.267	0.268	-0.3	128	-0.16
31	M	1,2,4-Trichlorobenzene	0.270	0.263	2.6	125	-0.17
32		Naphthalene	1.025	1.024	0.1	128	-0.17
33		4-Chloroaniline	0.450	0.490	-8.8	133	-0.17
34	C	Hexachlorobutadiene	0.102	0.100	2.4	124	-0.18
35	MC	4-Chloro-3-Methylphenol	0.303	0.304	-0.2	128	-0.18
36		2-Methylnaphthalene	0.631	0.637	-1.0	129	-0.19
37		1-Methylnaphthalene	0.622	0.633	-1.8	131	-0.19
38	I	Acenaphthene-d10	1.000	1.000	0.0	126	-0.22
39	P	Hexachlorocyclopentadiene	0.080	0.088	-9.6	224#	-0.20
40	C	2,4,6-Trichlorophenol	0.326	0.333	-2.2	127	-0.20
41		2,4,5-Trichlorophenol	0.347	0.368	-6.1	125	-0.19
42	S	2-Fluorobiphenyl (SURR)	1.205	1.274	-5.7	128	-0.19
43		Biphenyl	1.397	1.489	-6.6	129	-0.20
44		2-Chloronaphthalene	1.251	1.303	-4.2	132	-0.21
45		Dimethylphthalate	1.252	1.254	-0.2	126	-0.20
46		Acenaphthylene	1.938	1.999	-3.2	125	-0.21
47		2,6-Dinitrotoluene	0.333	0.330	0.9	122	-0.21
48		2-Nitroaniline	0.419	0.435	-3.8	129	-0.21
49	MC	Acenaphthene	1.165	1.194	-2.5	126	-0.22
50	P	2,4-Dinitrophenol	0.177	0.153	13.2	124	-0.20
51		Dibenzofuran	1.607	1.610	-0.2	124	-0.22
52	MP	4-Nitrophenol	0.192	0.172	10.3	108	-0.19
53		3-Nitroaniline	0.508	0.519	-2.2	131	-0.21

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS1_MD\MD0606\MD061306\SV139110.D Vial: 2
Acq On : 13 Jun 106 9:58 am Operator: VSC
Sample : BPF0101-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\SV1NF.M
Title : ELEMENT ID: 0606008(SOIL) 0606009(AQUEOUS)
Last Update : Fri Jun 09 13:48:26 2006
Response via : Single Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
54	M	2,4-Dinitrotoluene	0.418	0.421	-0.9	125	-0.21
55		Fluorene	1.240	1.279	-3.1	125	-0.22
56		2,3,4,6-Tetrachlorophenol	0.271	0.267	1.5	121	-0.21
57		Diethylphthalate	1.230	1.252	-1.8	128	-0.21
58		4-Chloro-phenyl-phenyl ethe	0.506	0.515	-1.8	120	-0.22
59	I	Phenanthrene-d10	1.000	1.000	0.0	123	-0.24
60		4-Nitroaniline	0.323	0.339	-4.8	125	-0.22
61		4,6-Dinitro-2-Methylphenol	0.150	0.182	-21.9	124	-0.22
62	C	N-nitrosodiphenylamine	0.778	0.842	-8.3	129	-0.22
63		Azobenzene	1.310	1.377	-5.1	129	-0.22
64	S	2,4,6-Tribromophenol (SURR)	0.097	0.094	2.9	115	-0.22
65		4-Bromophenyl-phenylether	0.207	0.207	0.2	119	-0.23
66		Hexachlorobenzene	0.219	0.214	2.3	115	-0.24
67	MC	Pentachlorophenol	0.099	0.073	26.3	101	-0.23
68		Phenanthrene	1.195	1.219	-2.0	124	-0.24
69		Anthracene	1.157	1.208	-4.4	125	-0.24
70		Carbazole	1.204	1.244	-3.3	125	-0.23
71		Di-n-butylphthalate	1.597	1.665	-4.2	126	-0.23
72	C	Fluoranthene	1.153	1.175	-1.9	120	-0.24
73		Benzidine	0.601	0.664	-10.5	129	-0.24
74	I	Chrysene-d12	1.000	1.000	0.0	133	-0.25
75	M	Pyrene	1.813	1.687	7.0	123	-0.26
76	S	Terphenyl-d14 (SURR)	1.070	1.032	3.6	123	-0.24
77		Butylbenzylphthalate	0.909	0.917	-0.9	133	-0.23
78		3,3'-Dichlorobenzidine	0.525	0.522	0.6	127	-0.24
79		Benzo(a)anthracene	1.555	1.483	4.6	126	-0.25
80		Chrysene	1.184	1.186	-0.2	136	-0.25
81		bis(2-Ethylhexyl)phthalate	0.918	0.843	8.2	137	-0.23
82	I	Perylene-d12	1.000	1.000	0.0	140	-0.25
83	C	Di-n-octylphthalate	2.483	2.437	1.9	141	-0.22
84		Benzo(b)fluoranthene	1.789	1.819	-1.6	125	-0.25
85		Benzo(k)fluoranthene	1.000	1.015	-1.6	154	-0.25
86	C	Benzo(a)pyrene	1.465	1.415	3.5	133	-0.26
87		Indeno(1,2,3-Cd)Pyrene	1.189	1.184	0.4	131	-0.26
88		Dibenzo(a,h)Anthracene	1.010	0.982	2.8	130	-0.27
89		Benzo(g,h,i)perylene	0.989	0.915	7.5	123	-0.28

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report

Data File : Q:\SVOA\MS1_MD\MD0606\MD061306\SV139110.D Vial: 2
Acq On : 13 Jun 106 9:58 am Operator: VSC
Sample : BPF0101-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jun 13 10:37 19106

Method : C:\HPCHEM\1\METHODS\SV1NF.M
Title : ELEMENT ID: 0606008(SOIL) 0606009(AQUEOUS)
Last Update : Fri Jun 09 13:48:26 2006
Response via : Single Level Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	4.21	152	957680	40.00	ng/uL	-0.14
22) Naphthalene-d8	5.63	136	3517162	40.00	ng/uL	-0.17
38) Acenaphthene-d10	8.16	164	1579712	40.00	ng/uL	-0.22
59) Phenanthrene-d10	10.82	188	2116087	40.00	ng/uL	-0.24
74) Chrysene-d12	16.06	240	1488744	40.00	ng/uL	-0.25
82) Perylene-d12	18.73	264	1176888	40.00	ng/uL	-0.25
System Monitoring Compounds						%Recovery
4) 2-Fluorophenol (SURR)	2.67	112	2017598	52.85	ng/uL	35.23%
6) Phenol-d5 (SURR)	3.93	99	2562890	52.07	ng/uL	34.71%
10) 2-Chlorophenol-d4(SURR)	4.02	132	1873113	52.54	ng/uL	35.03%
13) 1,2 Dichlorobenzene-d4(SUR	4.41	152	1063625	52.64	ng/uL	52.64%
23) Nitrobenzene-d5 (SURR)	4.85	82	1725962	49.78	ng/uL	49.78%
42) 2-Fluorobiphenyl (SURR)	7.10	172	2515477	52.87	ng/uL	52.87%
64) 2,4,6-Tribromophenol (SURR	9.59	330	248509	48.53	ng/uL	32.35%
76) Terphenyl-d14 (SURR)	13.99	244	1920728	48.22	ng/uL	48.22%
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	1.00	74	158928	35.79	ng/uLm	0
3) Pyridine	1.00	79	278608	34.71	ng/ulm	0
5) bis(2-Chloroethyl)ether	3.99	93	2250090	50.88	ng/uLm	0
7) 2-Chlorophenol	4.03	128	1834925	50.12	ng/uLm	0
8) Phenol	3.94	94	3144656	50.26	ng/uLm	88
9) Aniline	3.92	93	3343191	52.32	ng/ulm	50
11) 1,3-Dichlorobenzene	4.17	146	1807420	50.50	ng/uLm	99
12) 1,4-Dichlorobenzene	4.22	146	1851809	49.32	ng/uLm	98
14) 1,2-Dichlorobenzene	4.42	146	1678592	52.25	ng/uLm	27
15) Benzyl Alcohol	4.41	79	1429400	52.23	ng/ulm	1
16) bis(2-chloroisopropyl)Ethe	4.54	45	2955705	52.08	ng/uLm	58
17) 2-Methylphenol	4.72	108	1915967	54.28	ng/uLm	77
18) Acetophenone	4.68	105	2241786	50.42	ng/ulm	1
19) N-Nitroso-Di-n-Propylamine	4.71	70	1318228	51.53	ng/uLm	78
20) Hexachloroethane	4.73	117	753304	53.42	ng/uLm	0
21) 3+4-Methylphenol	4.72	108	1936070	53.57	ng/uLm	0
24) Nitrobenzene	4.87	77	1811978	50.64	ng/uLm	72
25) Isophorone	5.13	82	3450882	48.98	ng/uLm	60
26) 2-Nitrophenol	5.23	139	997070	52.07	ng/uLm	1
27) Benzoic Acid	5.53	105	1074795	53.55	ng/uLm	87
28) 2,4-Dimethylphenol	5.29	107	1514256	50.00	ng/uLm	1
29) bis(2-Chloroethoxy)methane	5.38	93	2291507	48.95	ng/uLm	1
30) 2,4-Dichlorophenol	5.50	162	1178574	50.14	ng/uLm	90
31) 1,2,4-Trichlorobenzene	5.58	180	1156671	48.71	ng/uLm	1
32) Naphthalene	5.65	128	4504033	49.95	ng/uLm	1
33) 4-Chloroaniline	5.76	127	2152231	54.41	ng/uLm	93
34) Hexachlorobutadiene	5.85	225	438697	48.80	ng/uLm	18
35) 4-Chloro-3-Methylphenol	6.42	107	1336729	50.12	ng/uLm	1
36) 2-Methylnaphthalene	6.53	142	2800371	50.50	ng/uLm	98
37) 1-Methylnaphthalene	6.69	142	2784842	50.90	ng/ulm	96
39) Hexachlorocyclopentadiene	6.84	237	173337	59.53	ng/uLm	0
40) 2,4,6-Trichlorophenol	7.01	196	657833	51.12	ng/uLm	94
41) 2,4,5-Trichlorophenol	7.09	196	725820	53.03	ng/uLm	93
43) Biphenyl	7.24	154	2940681	53.31	ng/ulm	1
44) 2-Chloronaphthalene	7.25	162	2573632	52.08	ng/uLm	95
45) Dimethylphthalate	7.83	163	2476626	50.09	ng/uLm	75
46) Acenaphthylene	7.91	152	3947447	51.58	ng/uLm	87
47) 2,6-Dinitrotoluene	7.95	165	651124	49.55	ng/uLm	44
48) 2-Nitroaniline	7.50	65	858728	51.92	ng/uLm	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : Q:\SVOA\MS1_MD\MD0606\MD061306\SV139110.D Vial: 2
Acq On : 13 Jun 106 9:58 am Operator: VSC
Sample : BPF0101-CCV1 Inst : SVOA-MS1
Misc : Multiplr: 1.00
Quant Time: Jun 13 10:37 19106

Method : C:\HPCHEM\1\METHODS\SV1NF.M
Title : ELEMENT ID: 0606008(SOIL) 0606009(AQUEOUS)
Last Update : Fri Jun 09 13:48:26 2006
Response via : Single Level Calibration

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49)	Acenaphthene	8.22	153	2358115	51.25	ng/uLm	10
50)	2,4-Dinitrophenol	8.40	184	302541	49.09	ng/uLm	79
51)	Dibenzofuran	8.49	168	3179740	50.10	ng/uLm	66
52)	4-Nitrophenol	8.56	65	340208	44.84	ng/uLm	93
53)	3-Nitroaniline	8.19	65	1024371	51.08	ng/uLm	1
54)	2,4-Dinitrotoluene	8.64	165	831897	50.45	ng/uLm	100
55)	Fluorene	9.10	166	2525774	51.57	ng/uLm	99
56)	2,3,4,6-Tetrachlorophenol	8.82	232	526843	49.26	ng/ulm	99
57)	Diethylphthalate	9.04	149	2473097	50.91	ng/uLm	59
58)	4-Chloro-phenyl-phenyl eth	9.10	204	1016771	50.90	ng/uLm	94
60)	4-Nitroaniline	9.30	138	895923	52.38	ng/uLm	11
61)	4,6-Dinitro-2-Methylphenol	9.37	198	482678	54.23	ng/uLm	69
62)	N-nitrosodiphenylamine	9.36	169	2228186	54.17	ng/uLm	63
63)	Azobenzene	9.39	77	3643429	52.57	ng/ulm	47
65)	4-Bromophenyl-phenylether	9.98	248	547988	49.92	ng/uLm	1
66)	Hexachlorobenzene	10.25	284	565057	48.87	ng/uLm	90
67)	Pentachlorophenol	10.64	266	193721	43.02	ng/uLm	81
68)	Phenanthrene	10.87	178	3223832	51.01	ng/uLm	60
69)	Anthracene	10.96	178	3194513	52.19	ng/uLm	60
70)	Carbazole	11.31	167	3289576	51.64	ng/uLm	60
71)	Di-n-butylphthalate	12.11	149	4403048	52.11	ng/uLm	79
72)	Fluoranthene	13.18	202	3108899	50.97	ng/uLm	85
73)	Benzidine	13.52	184	1755690	55.26	ng/ulm	59
75)	Pyrene	13.61	202	3139151	46.52	ng/uLm	55
77)	Butylbenzylphthalate	15.07	149	1706243	50.45	ng/uL	96
78)	3,3'-Dichlorobenzidine	16.06	252	971907	49.69	ng/uL	99
79)	Benzo(a)anthracene	16.03	228	2760538	47.70	ng/uLm	52
80)	Chrysene	16.12	228	2207667	50.08	ng/uL	99
81)	bis(2-Ethylhexyl)phthalate	16.25	149	1568630	45.89	ng/uL	100
83)	Di-n-octylphthalate	17.42	149	3585460	49.07	ng/uLm	73
84)	Benzo(b)fluoranthene	18.09	252	2675289	50.82	ng/uLm	49
85)	Benzo(k)fluoranthene	18.13	252	1493713	49.05	ng/uLm	57
86)	Benzo(a)pyrene	18.63	252	2081140	48.27	ng/uLm	52
87)	Indeno(1,2,3-Cd)Pyrene	20.43	276	1741266	49.79	ng/uLm	85
88)	Dibenzo(a,h)Anthracene	20.43	278	1444805	48.61	ng/uLm	82
89)	Benzo(g,h,i)perylene	20.82	276	1345849	46.27	ng/uLm	63

(#) = qualifier out of range (m) = manual integration

ANALYSIS SEQUENCE

BPF0039

Instrument: SVOAMS2

Calibnration ID: ~~UNASSIGNED~~ SVK6

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0039-TUN1	QC		1		6E31075		
BPF0039-CAL1	QC		2		6E31076	6E26058	
BPF0039-CAL2	QC		3		6E31077	6E26058	
BPF0039-CAL3	QC		4		6E31078	6E26058	
BPF0039-CAL4	QC		5		6E31079	6E26058	
BPF0039-CAL5	QC		6		6E31080	6E26058	
BPF0039-CAL6	QC		7		6E31081	6E26058	
BPF0039-CAL7	QC		8		6E31082	6E26058	
BPF0039-CAL8	QC		9		6E31083	6E26058	
BPF0039-SCV1	QC		10		6E31084	6E26058	

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/3/06	15	SV2 12956	BE63026-BLK3	PAH2DW	✓	JCS
6/3/06	16	SV2 57	0605455-04	PAH2DW	✓	JCS
6/3/06	17	SV2 58	0605455-05	PAH2DW	✓ SR 10X	JCS
6/5/06	1	SV2 59	BPF0027-TUN	DFTPP	✓ 6E31075	JCS
6/5/06	2	SV2 60	BPF0027-CCV1	PAH2DW	✓ 6E31107	JCS
6/5/06	3	SV2 61	0605455-05	PAH2DW	10X ✓	JCS
6/6/06	1	SV2 62	~~BPF0038~~ BPF0039-TUN	DFTPP	6E31075	VJ / EEB
	2	SV2 63	BPF0039-CAL1	SV2KG	6E31076	VJ / EEB
	3	SV2 64	-Cal2		77	
	4	SV2 65	-Cal3		78	
	5	SV2 66	-Cal4		79	
	6	SV2 67	-Cal5		80	
	7	SV2 68	-Cal6		81	
	8	SV2 69	-Cal7		82	
	9	SV2 70	-Cal8		83	
6/5/06	10	SV2 71	BPF0039-SCV1	SV2KG	6E31084	VJ / EEB
6/6/06	1	SV2 72	BPF0044-TUN1	DFTPP	6E31075	VJC
	2	SV2 73	BPF0044-CCV1	SV2KG	6FA6044	
	3	SV2 74	BF60226-BLK1			
	4	SV2 75	BF60226-LCS1			
	5	SV2 76	BF60226-LCSD1			
	6	SV2 77	0606030-01			
	7	SV2 78	0605467-01			
	8	SV2 79	0605467-02			
	9	SV2 80	0605454-01 ~~03~~ VSC 6/6/06			
	10	SV2 81	0605467-03			
	11	SV2 82	0605467-04			
	12	SV2 83	0605467-05			
6/6/06	13	SV2 84	BF60510-BLK1	SV2KG		VJ

Response Factor Report GC/MS 2

Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)
Last Update : Wed Jul 19 20:51:41 2006
Response via : Initial Calibration

Calibration Files
5 =SV212963.D 10 =SV212964.D 50 =SV212966.D
80 =SV212967.D 120 =SV212968.D 160 =SV212969.D

		Compound	5	10	50	80	120	160	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)		N-Nitrosodimethylam	0.314	0.337	0.368	0.366	0.362	0.379	0.358	6.26
3)		Pyridine	0.504	0.601	0.624	0.648	0.633	0.685	0.626	9.26
4)	S	2-Fluorophenol (SUR	1.334	1.300	1.299	1.290	1.285	1.300	1.301	1.25
5)		bis(2-Chloroethyl)e	1.155	1.165	1.124	1.116	1.105	1.094	1.117	3.21
6)	S	Phenol-d5 (SURR)	1.693	1.718	1.722	1.696	1.633	1.586	1.669	3.28
7)		2-Chlorophenol	1.438	1.409	1.412	1.405	1.357	1.334	1.386	2.99
8)	C	Phenol	2.186	2.195	2.069	2.117	2.037	1.991	2.082	4.23#
9)		Aniline	1.699	1.856	1.946	2.041	1.983	1.642	1.867	7.49
10)	S	2-Chlorophenol-d4(S	1.449	1.433	1.413	1.412	1.362	1.344	1.395	2.88
11)		1,3-Dichlorobenzene	1.387	1.372	1.372	1.425	1.302	1.293	1.344	4.48
12)	C	1,4-Dichlorobenzene	1.852	1.769	1.722	1.639	1.666	1.652	1.713	4.22#
13)	S	1,2 Dichlorobenzene	0.970	0.925	0.897	0.883	0.841	0.816	0.876	6.77
14)		1,2-Dichlorobenzene	1.516	1.488	1.443	1.435	1.363	1.328	1.411	5.78
15)		Benzyl Alcohol	1.189	1.239	1.230	1.234	1.197	1.154	1.208	2.34
16)		bis(2-chloroisoprop	2.805	2.762	2.654	2.586	2.480	2.403	2.593	5.79
17)		2-Methylphenol	1.250	1.279	1.266	1.263	1.211	1.176	1.238	2.85
18)		Acetophenone	1.800	1.807	1.739	1.703	1.552	1.474	1.658	8.92
19)	P	n-Nitroso-di-n-prop	1.132	1.137	1.159	1.128	1.100	1.035	1.112	3.43
20)		Hexachloroethane	0.682	0.652	0.631	0.631	0.610	0.606	0.629	4.32
21)		3+4-Methylphenol	1.336	1.345	1.328	1.308	1.199	1.135	1.260	7.85
22)		Naphthalene-d8	----------ISTD----------							
23)	S	Nitrobenzene-d5 (SU	0.395	0.389	0.387	0.383	0.383	0.376	0.385	2.00
24)		Nitrobenzene	0.413	0.408	0.399	0.397	0.392	0.387	0.397	3.15
25)		Isophorone	0.707	0.725	0.734	0.726	0.717	0.704	0.720	1.57
26)	C	2-Nitrophenol	0.192	0.198	0.213	0.212	0.212	0.210	0.206	3.82#
27)		Benzoic Acid	0.190	0.229	0.275	0.302	0.309	0.307	0.272	16.61
28)		2,4-Dimethylphenol	0.324	0.325	0.329	0.330	0.323	0.310	0.322	2.59
29)		bis(2-Chloroethoxy)	0.458	0.460	0.462	0.461	0.452	0.439	0.453	2.40
30)	C	2,4-Dichlorophenol	0.266	0.269	0.276	0.282	0.277	0.271	0.272	2.25#
31)		1,2,4-Trichlorobenz	0.305	0.297	0.293	0.287	0.281	0.275	0.287	4.30
32)		Naphthalene	1.076	1.046	1.017	0.998	0.944	0.921	0.986	7.04
33)		4-Chloroaniline	0.398	0.428	0.459	0.468	0.435	0.415	0.432	6.66
34)	C	Hexachlorobutadiene	0.145	0.140	0.141	0.137	0.133	0.132	0.136	5.44#
35)	C	4-Chloro-3-methylph	0.281	0.296	0.291	0.302	0.299	0.291	0.293	2.20#
36)		2-Methylnaphthalene	0.650	0.673	0.639	0.644	0.604	0.585	0.626	6.13
37)		1-Methylnaphthalene	0.665	0.670	0.639	0.643	0.583	0.575	0.621	7.80
38)		Acenaphthene-d10	----------ISTD----------							
39)	P	Hexachlorocyclopent	0.264	0.262	0.280	0.279	0.281	0.287	0.278	3.40
40)	C	2,4,6-Trichlorophen	0.344	0.355	0.374	0.369	0.354	0.353	0.360	2.81#
41)		2,4,5-Trichlorophen	0.355	0.369	0.392	0.393	0.387	0.392	0.383	3.60
42)	S	2-Fluorobiphenyl (S	1.267	1.277	1.312	1.244	1.176	1.136	1.229	5.59
43)		Biphenyl	1.509	1.490	1.472	1.378	1.258	1.172	1.358	12.38
44)		2-Chloronaphthalene	1.444	1.375	1.344	1.295	1.196	1.100	1.274	11.51
45)		Dimethylphthalate	1.318	1.346	1.345	1.317	1.252	1.222	1.300	3.90
46)		Acenaphthylene	1.892	1.966	1.946	1.898	1.782	1.698	1.845	7.75
47)		2,6-Dinitrotoluene	0.351	0.354	0.348	0.344	0.321	0.312	0.333	7.38
48)		2-Nitroaniline	0.514	0.535	0.439	0.439	0.438	0.448	0.474	9.03
49)	C	Acenaphthene	1.267	1.255	1.233	1.218	1.152	1.127	1.199	5.26#
50)	P	2,4-Dinitrophenol	0.088	0.131	0.182	0.198	0.202	0.216	0.176	26.29

(#) = Out of Range ### Number of calibration levels exceeded format ###

Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)
Last Update : Wed Jul 19 20:51:41 2006
Response via : Initial Calibration

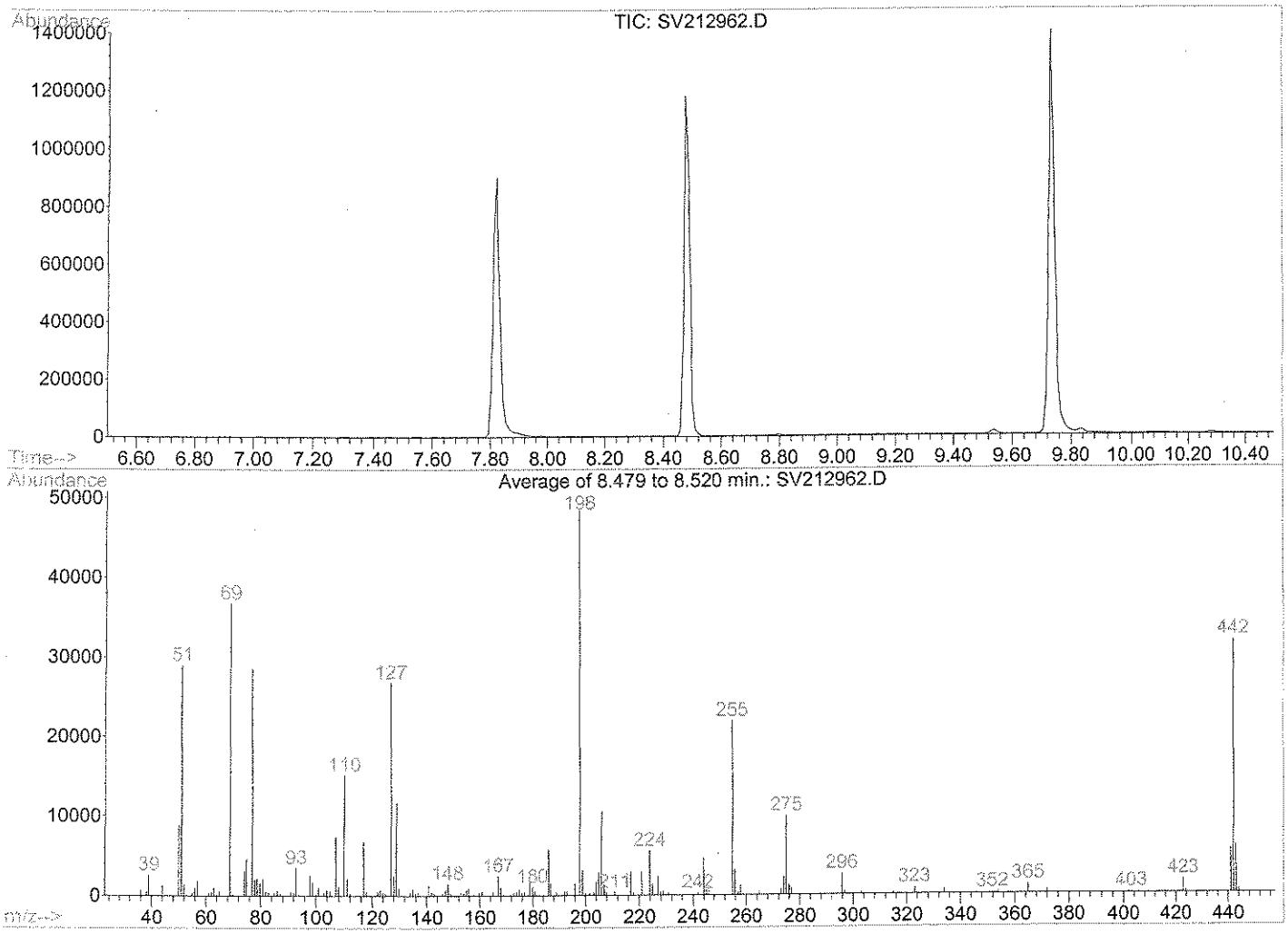
Calibration Files
5 =SV212963.D 10 =SV212964.D 50 =SV212966.D
80 =SV212967.D 120 =SV212968.D 160 =SV212969.D

		Compound	5	10	50	80	120	160	Avg	%RSD
51)		Dibenzofuran	1.660	1.683	1.619	1.616	1.539	1.542	1.601	4.22
52)	P	4-Nitrophenol		0.129	0.146	0.157	0.155	0.166	0.152	9.21
53)		3-Nitroaniline	0.362	0.382	0.397	0.417	0.402	0.415	0.398	5.08
54)		2,4-Dinitrotoluene	0.412	0.427	0.428	0.440	0.428	0.441	0.431	2.27
55)		Fluorene	1.325	1.342	1.266	1.227	1.094	1.042	1.230	9.62
56)		2,3,4,6-Tetrachloro	0.260	0.279	0.289	0.297	0.285	0.287	0.283	3.83
57)		Diethylphthalate	1.312	1.377	1.351	1.375	1.315	1.307	1.337	2.73
58)		4-Chloro-phenyl-phe	0.592	0.579	0.550	0.530	0.471	0.435	0.532	10.96
59)		Phenanthrene-d10	ISTD							
60)		4-Nitroaniline	0.248	0.268	0.284	0.286	0.285	0.288	0.278	5.30
61)		4,6-Dinitro-2-methy	0.095	0.135	0.173	0.179	0.179	0.182	0.161	19.32
62)	C	n-Nitrosodiphenylam	0.746	0.776	0.823	0.788	0.750	0.715	0.764	5.59#
63)		Azobenzene	1.189	1.162	1.193	1.157	1.219	1.173	1.177	1.83
64)	S	2,4,6-Tribromopheno	0.102	0.107	0.117	0.117	0.114	0.110	0.111	4.79
65)		4-Bromophenyl-pheny	0.229	0.216	0.226	0.219	0.211	0.202	0.215	4.86
66)		Hexachlorobenzene	0.250	0.248	0.243	0.236	0.224	0.214	0.233	7.23
67)	C	Pentachlorophenol	0.094	0.112	0.134	0.135	0.136	0.137	0.127	12.51#
68)		Phenanthrene	1.269	1.239	1.219	1.194	1.145	1.123	1.189	5.39
69)		Anthracene	1.208	1.212	1.234	1.215	1.173	1.132	1.183	4.92
70)		Carbazole	1.057	1.125	1.147	1.133	1.105	1.114	1.113	2.88
71)		Di-n-butylphthalate	1.349	1.572	1.654	1.644	1.569	1.565	1.568	6.31
72)	C	Fluoranthene	0.962	1.015	1.043	1.063	1.039	1.067	1.034	3.24#
73)		Benzidine		0.110	0.312	0.399	0.410	0.467	0.346	36.84
74)		Chrysene-d12	ISTD							
75)		Pyrene	1.841	1.872	1.863	1.754	1.699	1.635	1.768	4.83
76)	S	Terphenyl-d14 (SURR	1.026	1.104	1.125	1.059	1.031	0.995	1.051	4.22
77)		Butylbenzylphthalat	0.784	0.938	1.037	1.010	0.992	0.985	0.966	8.27
78)		3,3'-Dichlorobenzid	0.263	0.331	0.446	0.465	0.466	0.468	0.416	18.68
79)		Benzo(a)anthracene	1.186	1.229	1.313	1.324	1.300	1.321	1.287	4.17
80)		Chrysene	1.270	1.265	1.267	1.263	1.249	1.253	1.266	0.96
81)		bis(2-Ethylhexyl)ph	0.947	1.100	1.359	1.354	1.317	1.311	1.239	11.98
82)		Perylene-d12	ISTD							
83)	C	Di-n-octylphthalate	1.050	1.371	2.182	2.321	2.323	2.453	1.978	27.18#
84)		Benzo(b)fluoranthen	0.880	0.949	1.310	1.336	1.348		1.140	18.82
85)		Benzo(k)fluoranthen	1.517	1.575	1.426	1.355	1.272		1.457	8.87
86)	C	Benzo(a)pyrene	1.094	0.919	1.122	1.152	1.188	1.186	1.126	7.98#
87)		Indeno(1,2,3-cd)pyr	0.816	0.843	1.093	1.095	1.089	0.986	1.002	11.28
88)		Dibenzo(a,h)anthrac	0.601	0.669	0.897	0.912	0.920	0.818	0.816	14.51
89)		Benzo(g,h,i)perylen	0.831	0.796	0.911	0.906	0.906	0.794	0.864	6.53

(#) = Out of Range ### Number of calibration levels exceeded format ###

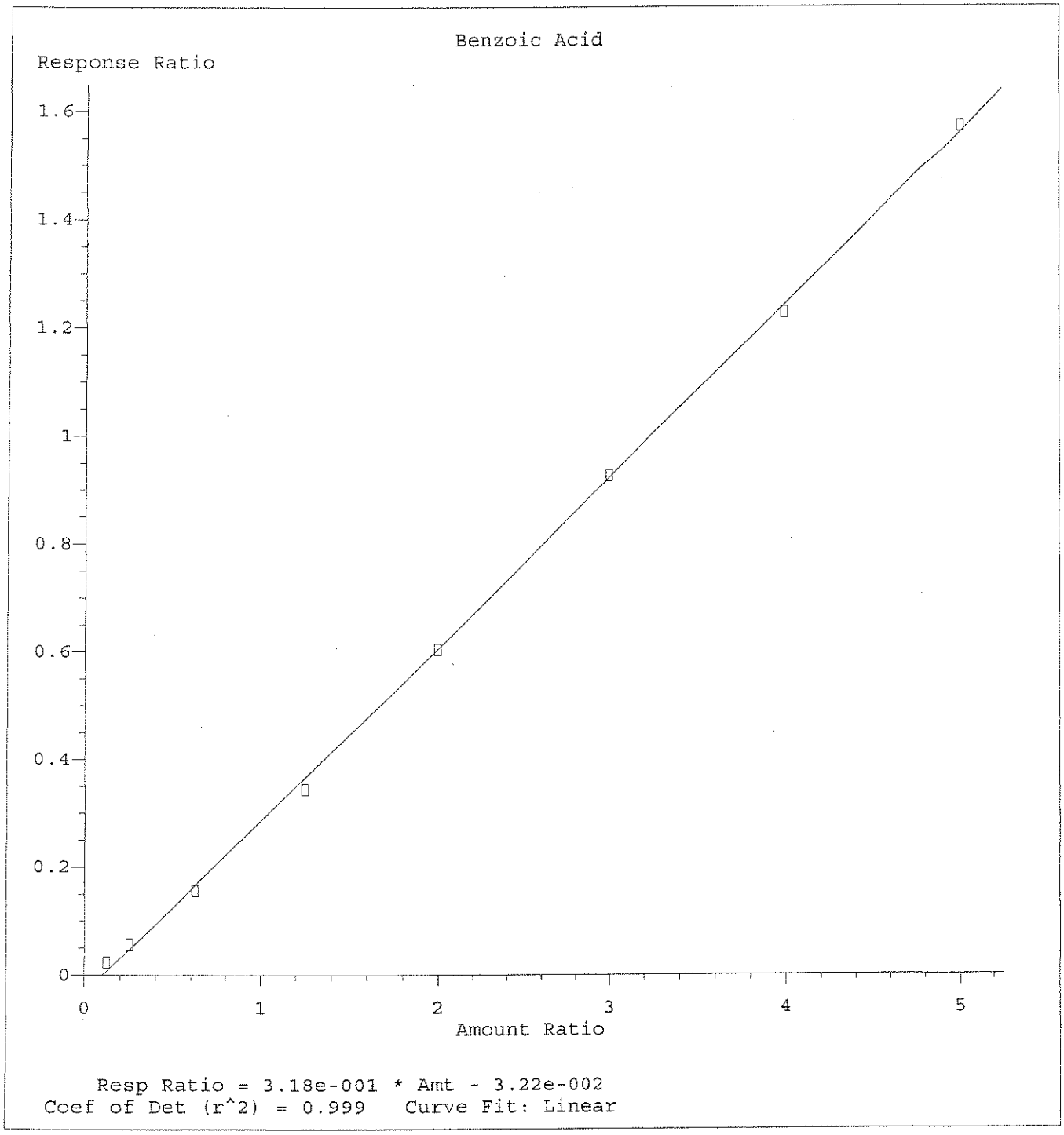
DFTPP

Data File : Q:\SVOA\MS2_ME\ME0506\ME060506\SV212962.D Vial: 1
Acq On : 5 Jun 2006 6:47 pm Operator: JLS
Sample : BPF0039-TUN1 Inst : GC/MS 2
Misc : 10 Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)

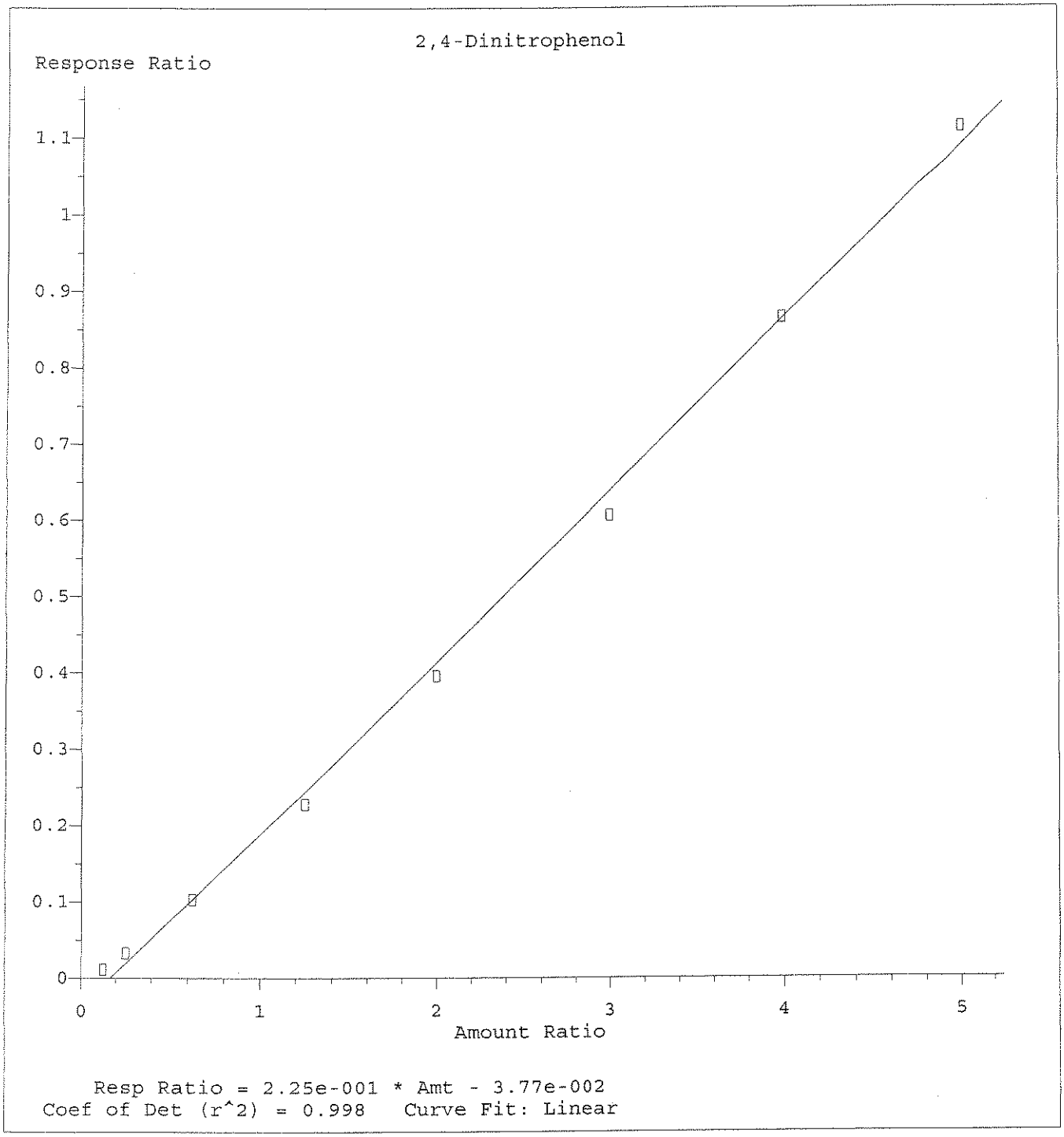


Spectrum Information: Average of 8.479 to 8.520 min.

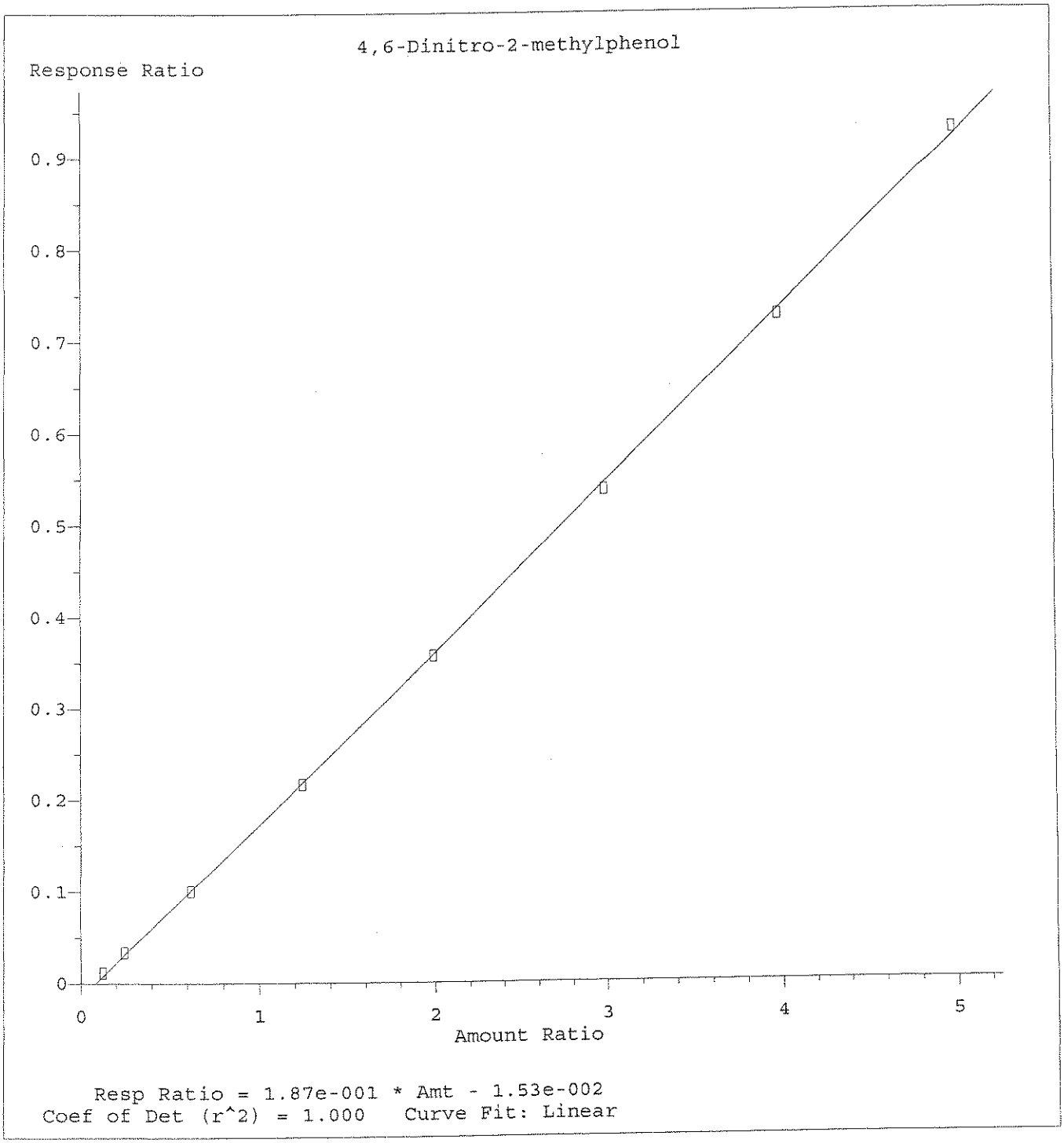
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	59.9	28972	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	76.0	36742	PASS
70	69	0.00	2	0.3	118	PASS
127	198	40	60	55.4	26789	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	48328	PASS
199	198	5	9	6.5	3142	PASS
275	198	10	30	20.5	9913	PASS
365	198	1	100	2.5	1199	PASS
441	443	0.01	100	93.3	5580	PASS
442	198	40	100	65.9	31832	PASS
443	442	17	23	18.8	5980	PASS



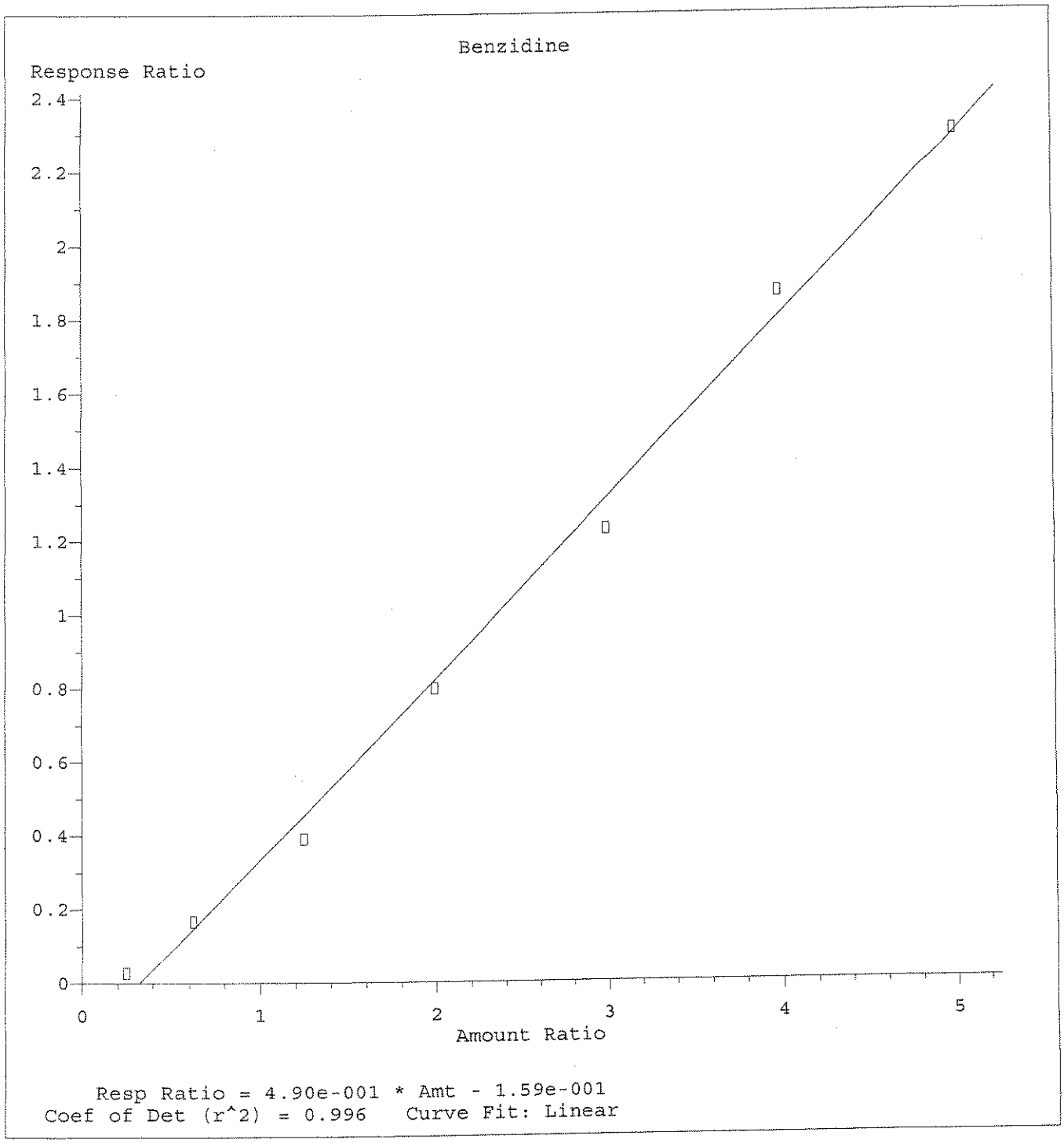
Method Name: C:\HPCHEM\1\METHODS\SV2KG.M
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006



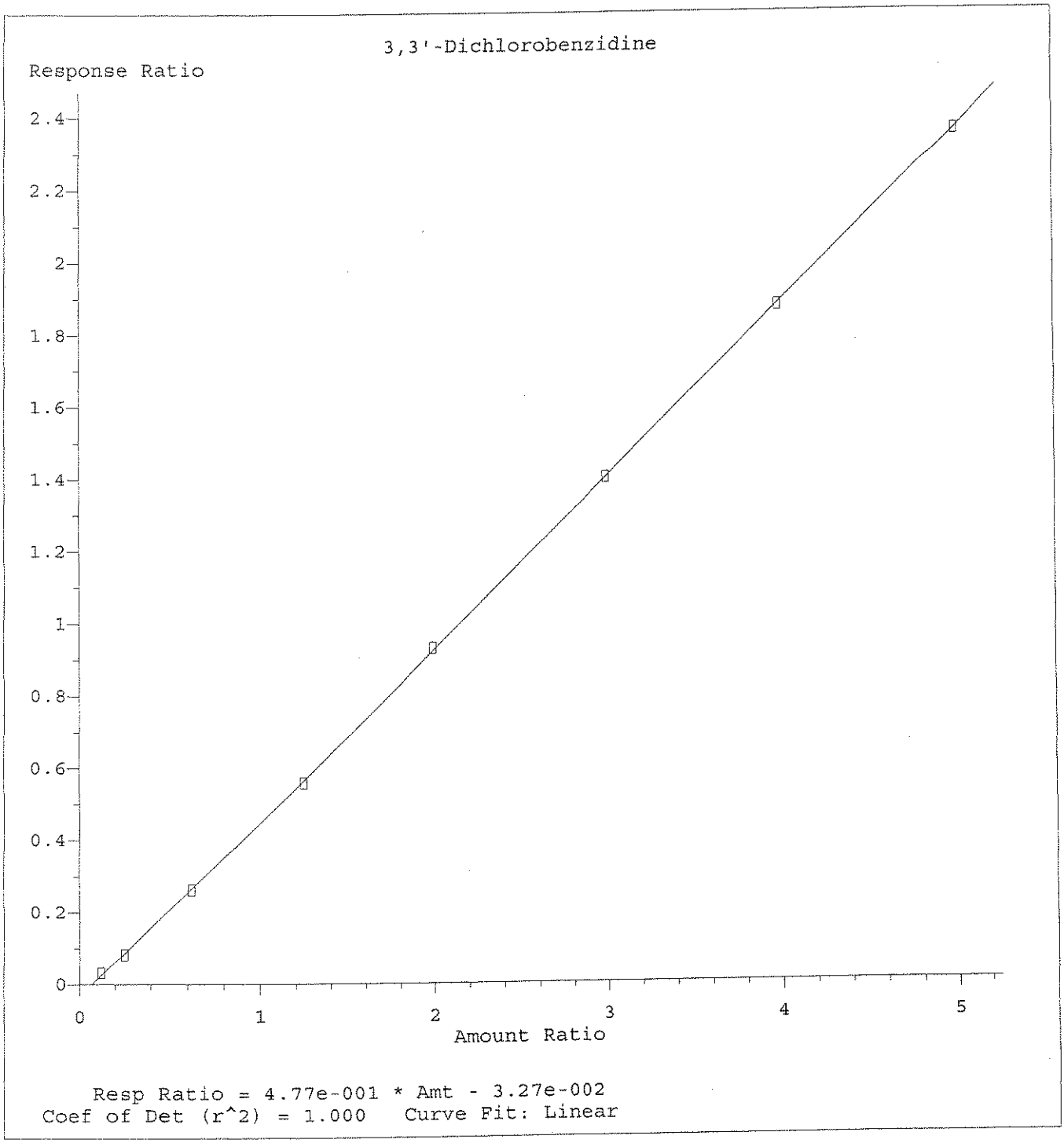
Method Name: C:\HPCHEM\1\METHODS\SV2KG.M
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006



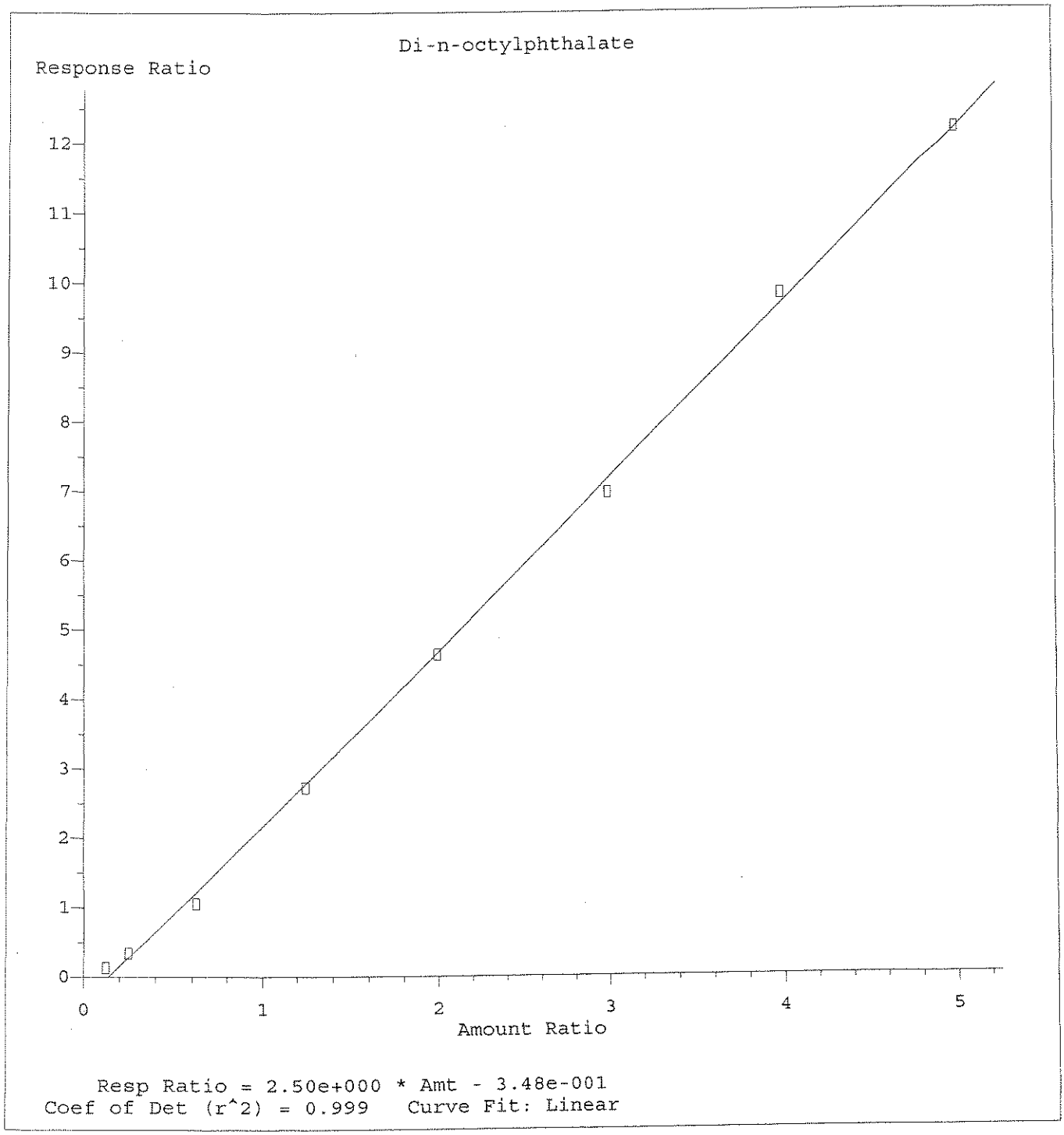
Method Name: C:\HPCHEM\1\METHODS\SV2KG.M
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006



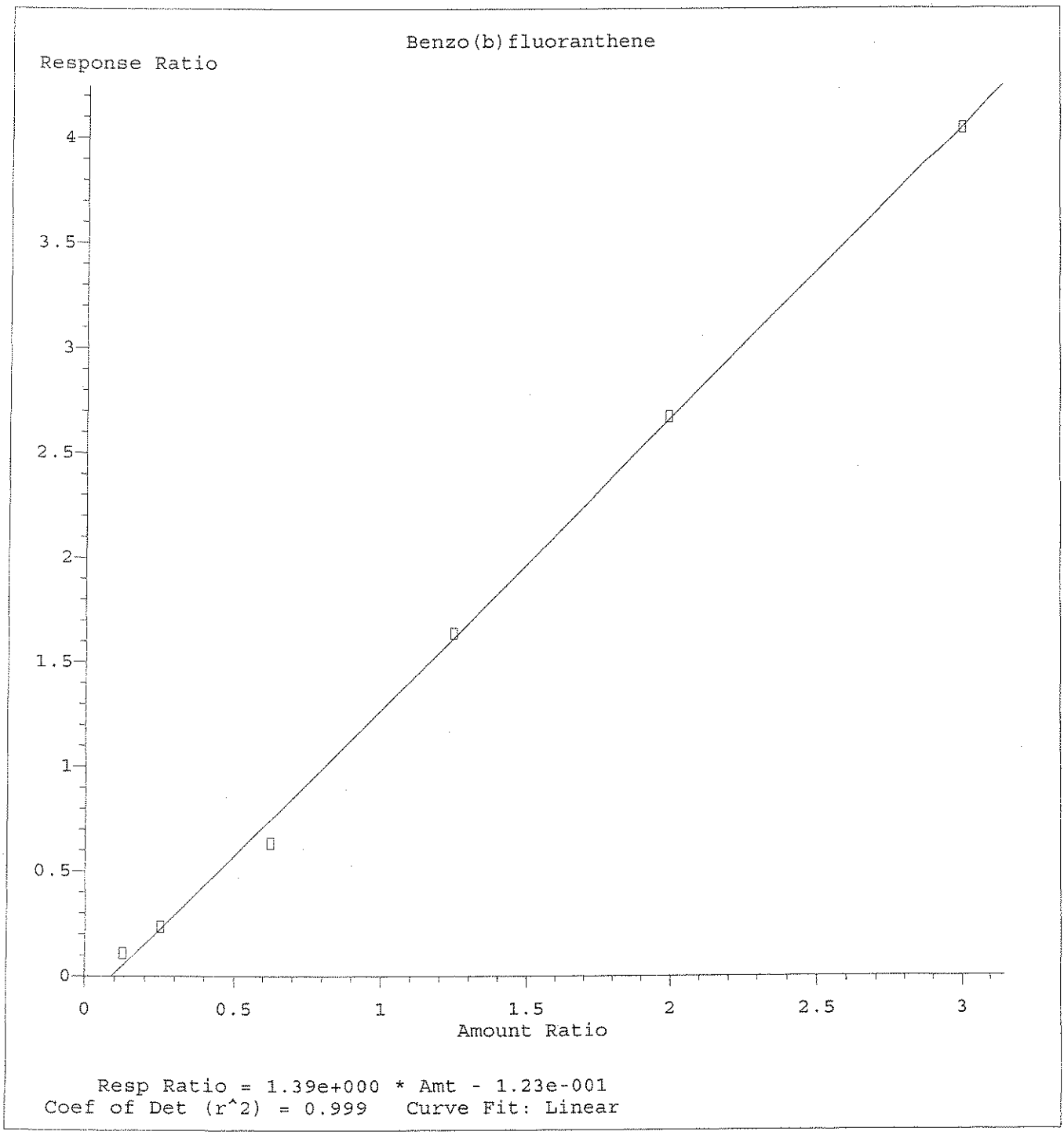
Method Name: C:\HPCHEM\1\METHODS\SV2KG.M
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006



Method Name: C:\HPCHEM\1\METHODS\SV2KG.M
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006



Method Name: C:\HPCHEM\1\METHODS\SV2KG.M
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006



Method Name: C:\HPCHEM\1\METHODS\SV2KG.M
Calibration Table Last Updated: Wed Jul 19 20:51:41 2006

ANALYSIS SEQUENCE

BPF0124

Instrument: SVOAMS2

Calibnration ID: ~~UNASSIGNED~~ 5U2K6

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0124-TUN1	QC		1		6E31075		
BPF0124-CCV1	QC		2		6F06044	6F03035	
0606113-09	SVOC: 8270/3541 ppb PAH	A	3			6F03035	MACTEC Engineering & Consulting, In
0606113-10	SVOC: 8270/3541 ppb PAH	A	4			6F03035	MACTEC Engineering & Consulting, In
0606113-11	SVOC: 8270/3541 ppb PAH	A	5			6F03035	MACTEC Engineering & Consulting, In
0606113-14	SVOC: 8270/3541 ppb PAH	A	6			6F03035	MACTEC Engineering & Consulting, In
0606113-16	SVOC: 8270/3541 ppb PAH	A	7			6F03035	MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/14/06	14	SV2 137 55	BF61218-BLK1	PAH2DX	RR 25 spiked	VL
	15	SV2 56	BF61218-BS1			
	16	SV2 57	BF61218-BSD1		RR 25 spiked	
	17	SV2 58	0606113-18			
	18	SV2 59	0606078-04		4x	
	19	SV2 60	0606078-03		2x	
6/14/06	20	SV2 61	0606078-02	PAH2DX	4x	VL
6/15/06	1	SV2 62	BPF0121-TUN1	DFTPP	6F13071 BFF0124	VL
	2	SV2 63	BPF0121-CCV1	PAH2DX		
	2	SV2 64	BPF0121-CCV1			
	3	SV2 65	0606113-17			
	4	SV2 66	BF61218-BLK1			
	5	SV2 67	BF61218-BSD1			
	6	SV2 68	0606113-02		4x	
	7	SV2 69	0606113-06		4x	
	8	SV2 70	0606113-07	PAH2DX	4x	
	1	SV2 71	BPF0124-TUN1	DFTPP	6F13071	
	2	SV2 72	BPF0124-CCC1	SV2KG	6F06044	
	3	SV2 73	0606113-05	PAH2DX		
	4	SV2 74	BF61501-BLK1	SV2KG		
	5	SV2 75	BF61501-BS1			
	6	SV2 76	BF61501-BSD1			
	7	SV2 77	0606223-01			
	8	SV2 78	BF61326-BLK1			
	9	SV2 79	BF61326-BS1			
	10	SV2 80	BF61326-BSD1			
	11	SV2 81	0606143-02			
	12	SV2 82	0606170-01			
6/15/06	13	SV2 137 83	0606113-16	SV2KG		GL

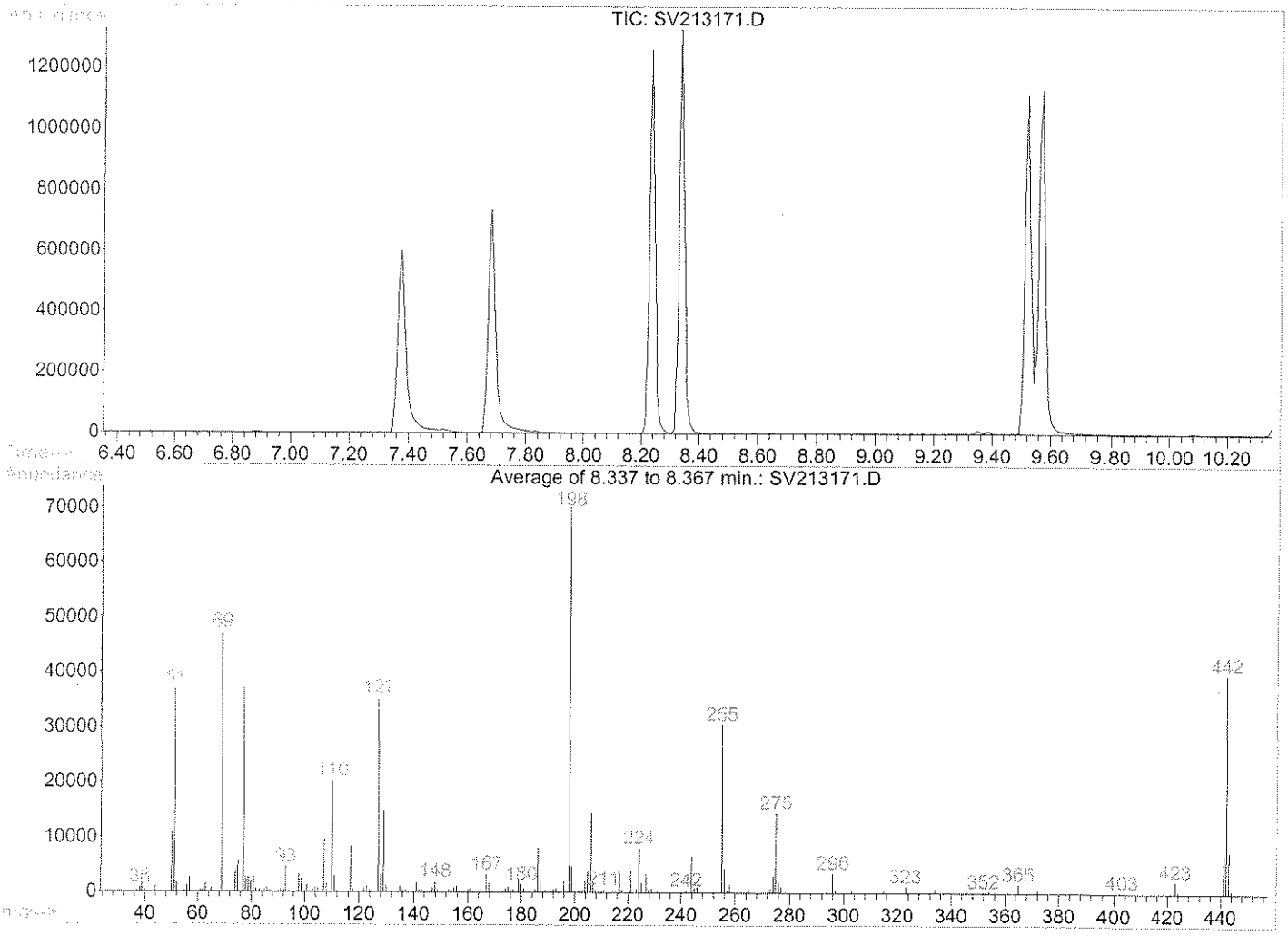
ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/15/06	14	SV2 131 84	0606113-09	SV2KG		LSL
	15	SV2 85	-10			
	16	SV2 86	-11			
	17	SV2 87	-14			C
6/15/06	19	SV2 88	0606113-05	SV2KG		LSL
6/16/06	1	SV2 89	BPF0132-TUN	DFTPP	6F1307	LSL
	2	SV2 90	BPF0132-CCV1	SV2KG	6F1605	
	3	SV2 91	0606170-01			
	4	SV2 92	BF61424-BLK1		SOM: BPF0139	
	5	SV2 93	BF61424-BS1			
	6	SV2 94	BF61424-BSD1			
	7	SV2 95	0606167-01			
	8	SV2 96	~~BF6116~~ 6/16/06 BF61424-MS1			
	9	SV2 97	BF61424-MSD1			
	10	SV2 98	BF61530-BLK1			
	11	SV2 131 99	BF61530-BS1			
	12	SV2 132 00	BF61530-BSD1			
	13	SV2 01	0606233-01			
	14	SV2 02	-02			
	15	SV2 03	-04 ~~04~~ 6/16/06			
	16	SV2 04	0606233-03			
	17	SV2 05	BF61530-BS1			LSL
6/16/06	18	SV2 06	BF61530-MSD1	SV2KG		LSL
6/17/06	1	SV2 07	BPF0139-TUN1	DFTPP	BPF0174 ~~AQ~~ TUN	LSL
	2	SV2 08	BPF0139-CCV1	SV2KG		
	3	SV2 09	BF61423-BLK1			
	4	SV2 10	BF61423-BS1			
	5	SV2 11	BF61423-BSD1			
6/17/06	6	SV2 12	0606200-01	SV2KG		LSL

DFTPP

Data File : Q:\SVOA\MS2_ME\ME0606\ME061506\SV213171.D Vial: 1
Acq On : 15 Jun 2006 4:19 pm Operator: VSC
Sample : BPF0124-TUN1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\PAH2EB.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0607020



Spectrum Information: Average of 8.337 to 8.367 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	52.7	37003	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	67.3	47251	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	50.3	35275	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	70182	PASS
199	198	5	9	6.7	4685	PASS
275	198	10	30	20.5	14412	PASS
365	198	1	100	2.2	1514	PASS
441	443	0.01	100	93.8	7101	PASS
442	198	40	100	56.6	39744	PASS
443	442	17	23	19.0	7569	PASS

SV213171.D PAH2EB.M Thu Jul 20 11:43:41 2006

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS2_ME\ME0606\ME061506\SV213172.D Vial: 2
Acq On : 15 Jun 2006 4:39 pm Operator: VSC
Sample : BPF0124-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)
Last Update : Fri Jul 07 11:51:45 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	83	0.35
2		N-Nitrosodimethylamine	0.358	0.301	15.9	68	0.18
3		Pyridine	0.626	0.390	37.7#	52	0.19
4	S	2-Fluorophenol (SURR)	1.301	1.384	-6.4	88	0.34
5		bis(2-Chloroethyl)ether	1.117	1.006	9.9	74	0.32
6	S	Phenol-d5 (SURR)	1.669	1.681	-0.7	81	0.31
7		2-Chlorophenol	1.386	1.405	-1.4	83	0.34
8	C	Phenol	2.082	2.079	0.1#	83	0.31
9		Aniline	1.867	1.744	6.6	74	0.32
10	S	2-Chlorophenol-d4(SURR)	1.395	1.434	-2.8	84	0.33
11		1,3-Dichlorobenzene	1.344	1.377	-2.5	83	0.34
12	C	1,4-Dichlorobenzene	1.713	1.764	-3.0#	85	0.34
13	S	1,2 Dichlorobenzene-d4(SURR	0.876	0.910	-3.9	84	0.35
14		1,2-Dichlorobenzene	1.411	1.465	-3.8	84	0.36
15		Benzyl Alcohol	1.208	1.198	0.8	81	0.34
16		bis(2-chloroisopropyl)ether	2.593	2.407	7.2	75	0.35
17		2-Methylphenol	1.238	1.274	-2.9	84	0.34
18		Acetophenone	1.658	1.664	-0.4	79	0.35
19	P	n-Nitroso-di-n-propylamine	1.112	1.098	1.3	79	0.35
20		Hexachloroethane	0.629	0.648	-3.0	85	0.37
21		3+4-Methylphenol	1.260	1.333	-5.8	83	0.34
22		Naphthalene-d8	1.000	1.000	0.0	81	0.41
23	S	Nitrobenzene-d5 (SURR)	0.385	0.398	-3.4	84	0.36
24		Nitrobenzene	0.397	0.395	0.5	81	0.36
25		Isophorone	0.720	0.750	-4.2	83	0.37
26	C	2-Nitrophenol	0.206	0.220	-6.8#	84	0.38
27		Benzoic Acid	0.272	0.292	-7.4	86	0.35
28		2,4-Dimethylphenol	0.322	0.348	-8.1	86	0.36
29		bis(2-Chloroethoxy)methane	0.453	0.455	-0.4	80	0.38
30	C	2,4-Dichlorophenol	0.272	0.297	-9.2#	87	0.39
31		1,2,4-Trichlorobenzene	0.287	0.306	-6.6	85	0.41
32		Naphthalene	0.986	0.979	0.7	78	0.41
33		4-Chloroaniline	0.432	0.462	-6.9	82	0.41
34	C	Hexachlorobutadiene	0.136	0.151	-11.0#	87	0.41
35	C	4-Chloro-3-methylphenol	0.293	0.328	-11.9#	92	0.42
36		2-Methylnaphthalene	0.626	0.658	-5.1	84	0.45
37		1-Methylnaphthalene	0.621	0.657	-5.8	83	0.45
38		Acenaphthene-d10	1.000	1.000	0.0	86	0.50
39	P	Hexachlorocyclopentadiene	0.278	0.263	5.4	81	0.46
40	C	2,4,6-Trichlorophenol	0.360	0.372	-3.3#	86	0.45
41		2,4,5-Trichlorophenol	0.383	0.423	-10.4	93	0.45
42	S	2-Fluorobiphenyl (SURR)	1.229	1.263	-2.8	83	0.46
43		Biphenyl	1.358	1.385	-2.0	81	0.47
44		2-Chloronaphthalene	1.274	1.247	2.1	80	0.48
45		Dimethylphthalate	1.300	1.358	-4.5	87	0.47
46		Acenaphthylene	1.845	1.889	-2.4	84	0.50
47		2,6-Dinitrotoluene	0.333	0.338	-1.5	84	0.48
48		2-Nitroaniline	0.474	0.456	3.8	90	0.47

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : Q:\SVOA\MS2_ME\ME0606\ME061506\SV213172.D Vial: 2
Acq On : 15 Jun 2006 4:39 pm Operator: VSC
Sample : BPF0124-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)
Last Update : Fri Jul 07 11:51:45 2006
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
49	C	Acenaphthene	1.199	1.192	0.6#	84	0.50
50	P	2,4-Dinitrophenol	0.176	0.176	0.0	84	0.48
51		Dibenzofuran	1.601	1.651	-3.1	88	0.51#
52	P	4-Nitrophenol	0.152	0.166	-9.2	98	0.46
53		3-Nitroaniline	0.398	0.402	-1.0	88	0.48
54		2,4-Dinitrotoluene	0.431	0.427	0.9	86	0.49
55		Fluorene	1.230	1.257	-2.2	86	0.52#
56		2,3,4,6-Tetrachlorophenol	0.283	0.305	-7.8	91	0.50
57		Diethylphthalate	1.337	1.394	-4.3	89	0.49
58		4-Chloro-phenyl-phenyl ethe	0.532	0.543	-2.1	85	0.50
59		Phenanthrene-d10	1.000	1.000	0.0	89	0.54#
60		4-Nitroaniline	0.278	0.280	-0.7	87	0.50
61		4,6-Dinitro-2-methylphenol	0.161	0.168	-4.3	86	0.50
62	C	n-Nitrosodiphenylamine	0.764	0.812	-6.3#	88	0.51#
63		Azobenzene	1.177	1.169	0.7	87	0.51#
64	S	2,4,6-Tribromophenol (SURR)	0.111	0.119	-7.2	90	0.52#
65		4-Bromophenyl-phenylether	0.215	0.217	-0.9	85	0.52#
66		Hexachlorobenzene	0.233	0.245	-5.2	90	0.54#
67	C	Pentachlorophenol	0.127	0.137	-7.9#	91	0.53#
68		Phenanthrene	1.189	1.164	2.1	85	0.54#
69		Anthracene	1.183	1.176	0.6	85	0.54#
70		Carbazole	1.113	1.081	2.9	84	0.54#
71		Di-n-butylphthalate	1.568	1.647	-5.0	88	0.52#
72	C	Fluoranthene	1.034	0.967	6.5#	82	0.57#
73		Benzidine	0.346	0.428	-23.7	122	0.55#
74		Chrysene-d12	1.000	1.000	0.0	77	0.58#
75		Pyrene	1.768	1.939	-9.7	80	0.57#
76	S	Terphenyl-d14 (SURR)	1.051	1.209	-15.0	83	0.55#
77		Butylbenzylphthalate	0.966	1.075	-11.3	80	0.53#
78		3,3'-Dichlorobenzidine	0.416	0.495	-19.0	86	0.55#
79		Benzo(a)anthracene	1.287	1.363	-5.9	80	0.57#
80		Chrysene	1.266	1.273	-0.6	77	0.57#
81		bis(2-Ethylhexyl)phthalate	1.239	1.408	-13.6	80	0.52#
82		Perylene-d12	1.000	1.000	0.0	93	0.58#
83	C	Di-n-octylphthalate	1.978	2.126	-7.5#	91	0.52#
84		Benzo(b)fluoranthene	1.140	1.232	-8.1	87	0.58#
85		Benzo(k)fluoranthene	1.457	1.283	11.9	84	0.58#
86	C	Benzo(a)pyrene	1.126	1.198	-6.4#	99	0.58#
87		Indeno(1,2,3-cd)pyrene	1.002	1.243	-24.1	106	0.60#
88		Dibenzo(a,h)anthracene	0.816	1.047	-28.3	108	0.60#
89		Benzo(g,h,i)perylene	0.864	1.034	-19.7	105	0.64#

(#) = Out of Range SPCC's out = 0 CCC's out = 13

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\MS2_ME\ME0606\ME061506\SV213172.D Vial: 2
Acq On : 15 Jun 2006 4:39 pm Operator: VSC
Sample : BPF0124-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 15 17:04 2006 Quant Results File: SV2KG.RES

Quant Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)
Last Update : Wed Jun 14 10:44:06 2006
Response via : Initial Calibration
DataAcq Meth : SV2KG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.65	152	209059	40.00	ng/uL	-0.06
22) Naphthalene-d8	4.97	136	793455	40.00	ng/uL	-0.08
38) Acenaphthene-d10	7.51	164	412032	40.00	ng/uL	-0.10
59) Phenanthrene-d10	10.16	188	551349	40.00	ng/uL	-0.11
74) Chrysene-d12	15.39	240	279706	40.00	ng/uL	-0.11
82) Perylene-d12	18.03	264	284084	40.00	ng/uL	-0.13
System Monitoring Compounds						
4) 2-Fluorophenol (SURR)	2.47	112	361629	53.19	ng/uL	-0.07
Spiked Amount 150.000			Recovery = 35.46%			
6) Phenol-d5 (SURR)	3.35	99	439320	50.37	ng/uL	-0.06
Spiked Amount 150.000			Recovery = 33.58%			
10) 2-Chlorophenol-d4(SURR)	3.47	132	374808	51.41	ng/uL	-0.07
Spiked Amount 150.000			Recovery = 34.27%			
13) 1,2 Dichlorobenzene-d4(SUR	3.83	152	237861	51.94	ng/uL	-0.07
Spiked Amount 100.000			Recovery = 51.94%			
23) Nitrobenzene-d5 (SURR)	4.21	82	395058	51.79	ng/uL	-0.08
Spiked Amount 100.000			Recovery = 51.79%			
42) 2-Fluorobiphenyl (SURR)	6.43	172	650362	51.37	ng/uL	-0.09
Spiked Amount 100.000			Recovery = 51.37%			
64) 2,4,6-Tribromophenol (SURR	8.91	330	81694	53.25	ng/uL	-0.10
Spiked Amount 150.000			Recovery = 35.50%			
76) Terphenyl-d14 (SURR)	13.36	244	422543	57.49	ng/uL	-0.11
Spiked Amount 100.000			Recovery = 57.49%			
Target Compounds						Qvalue
2) N-Nitrosodimethylamine	1.07	42	78787	42.14	ng/uL	79
3) Pyridine	1.08	79	101852	31.15	ng/uL	96
5) bis(2-Chloroethyl)ether	3.43	63	262790	45.03	ng/uL	91
7) 2-Chlorophenol	3.49	128	367115	50.68	ng/uL	98
8) Phenol	3.36	94	543311	49.92	ng/uL	97
9) Aniline	3.38	93	455667	46.71	ng/ul	90
11) 1,3-Dichlorobenzene	3.61	146	359935	51.25	ng/uL	99
12) 1,4-Dichlorobenzene	3.66	146	461057	51.50	ng/uL	99
14) 1,2-Dichlorobenzene	3.85	146	382777	51.90	ng/uL	99
15) Benzyl Alcohol	3.79	79	313088	49.60	ng/uL	95
16) bis(2-chloroisopropyl)ethe	3.94	45	629017	46.42	ng/uL	93
17) 2-Methylphenol	3.91	108	332961	51.46	ng/uL	96
18) Acetophenone	4.05	105	434723	50.16	ng/ul	84
19) n-Nitroso-di-n-propylamine	4.07	70	286864	49.34	ng/uL	98
20) Hexachloroethane	4.14	117	169322	51.48	ng/uL	96
21) 3+4-Methylphenol	4.05	108	348214	52.90	ng/uL	96
24) Nitrobenzene	4.23	77	392071	49.85	ng/uL	100
25) Isophorone	4.46	82	743601	52.04	ng/uL	97
26) 2-Nitrophenol	4.56	139	217794	53.25	ng/uL	96
27) Benzoic Acid	4.72	105	289919m	50.00	ng/uL	
28) 2,4-Dimethylphenol	4.58	107	344941	53.95	ng/uL	95
29) bis(2-Chloroethoxy)methane	4.70	93	451657	50.24	ng/uL	96
30) 2,4-Dichlorophenol	4.82	162	294124	54.44	ng/uL	97
31) 1,2,4-Trichlorobenzene	4.92	180	303205	53.19	ng/uL	99
32) Naphthalene	4.99	128	970508	49.60	ng/uL	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\MS2_ME\ME0606\ME061506\SV213172.D Vial: 2
Acq On : 15 Jun 2006 4:39 pm Operator: VSC
Sample : BPF0124-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 15 17:04 2006 Quant Results File: SV2KG.RES

Quant Method : C:\HPCHEM\1\METHODS\SV2KG.M (RTE Integrator)
Title : 8270 SOIL CAL(0606003 AQ CAL(0606004)
Last Update : Wed Jun 14 10:44:06 2006
Response via : Initial Calibration
DataAcq Meth : SV2KG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
33) 4-Chloroaniline	5.08	127	458001	53.49	ng/uL	99
34) Hexachlorobutadiene	5.21	225	150006	55.51	ng/uL	98
35) 4-Chloro-3-methylphenol	5.69	107	325364	55.93	ng/uL	96
36) 2-Methylnaphthalene	5.87	142	653081	52.61	ng/uL	99
37) 1-Methylnaphthalene	6.03	142	651307	52.86	ng/uL	97
39) Hexachlorocyclopentadiene	6.20	237	135253	47.29	ng/uL	99
40) 2,4,6-Trichlorophenol	6.31	196	191653	51.73	ng/uL	99
41) 2,4,5-Trichlorophenol	6.37	196	217625	55.22	ng/uL	99
43) Biphenyl	6.57	154	713403	50.98	ng/uL	99
44) 2-Chloronaphthalene	6.59	162	642346	48.96	ng/uL	98
45) Dimethylphthalate	7.14	163	699357	52.23	ng/uL	99
46) Acenaphthylene	7.25	152	972990	51.21	ng/uL	98
47) 2,6-Dinitrotoluene	7.24	165	173890	50.73	ng/uL	99
48) 2-Nitroaniline	6.78	65	234695	48.02	ng/uL	95
49) Acenaphthene	7.56	153	614104	49.73	ng/uL	99
50) 2,4-Dinitrophenol	7.63	184	90789	45.88	ng/uL	96
51) Dibenzofuran	7.84	168	850231	51.55	ng/uL	98
52) 4-Nitrophenol	7.76	109	85363	54.37	ng/uL	96
53) 3-Nitroaniline	7.47	138	207101	50.47	ng/uL	93
54) 2,4-Dinitrotoluene	7.91	165	220130	49.63	ng/uL	90
55) Fluorene	8.44	166	647367	51.08	ng/uL	99
56) 2,3,4,6-Tetrachlorophenol	8.12	232	157093	53.82	ng/uL	99
57) Diethylphthalate	8.37	149	717800	52.12	ng/uL	100
58) 4-Chloro-phenyl-phenyl eth	8.45	204	279504	51.04	ng/uL	90
60) 4-Nitroaniline	8.54	138	192794	50.39	ng/uL	87
61) 4,6-Dinitro-2-methylphenol	8.62	198	115461	48.14	ng/uL	79
62) n-Nitrosodiphenylamine	8.68	169	559436	53.15	ng/uL	96
63) Azobenzene	8.74	77	805780	49.66	ng/uL	95
65) 4-Bromophenyl-phenylether	9.34	248	149577	50.41	ng/uL	96
66) Hexachlorobenzene	9.60	284	169124	52.63	ng/uL	95
67) Pentachlorophenol	9.94	266	94537	54.07	ng/uL	100
68) Phenanthrene	10.21	178	801884	48.95	ng/uL	99
69) Anthracene	10.29	178	810582	49.72	ng/uL	99
70) Carbazole	10.63	167	745340	48.56	ng/ul	98
71) Di-n-butylphthalate	11.50	149	1135193	52.52	ng/uL	99
72) Fluoranthene	12.53	202	666669	46.79	ng/uL	90
73) Benzidine	12.83	184	295290	56.77	ng/uL	96
75) Pyrene	12.96	202	677838	54.82	ng/uL	97
77) Butylbenzylphthalate	14.44	149	375739	55.65	ng/uL	99
78) 3,3'-Dichlorobenzidine	15.38	252	173017	54.61	ng/uL	98
79) Benzo(a)anthracene	15.35	228	476697	52.97	ng/uL	99
80) Chrysene	15.43	228	445011	50.28	ng/uL	99
81) bis(2-Ethylhexyl)phthalate	15.68	149	492435	56.83	ng/uL	97
83) Di-n-octylphthalate	16.83	149	754778	48.07	ng/uL	100
84) Benzo(b)fluoranthene	17.38	252	437420	47.87	ng/uL	99
85) Benzo(k)fluoranthene	17.44	252	455586	44.02	ng/uL	94
86) Benzo(a)pyrene	17.94	252	425580	53.22	ng/uL	100
87) Indeno(1,2,3-cd)pyrene	19.71	276	441483	62.07	ng/uL	94
88) Dibenzo(a,h)anthracene	19.75	278	371843	64.15	ng/uL	91
89) Benzo(g,h,i)perylene	20.12	276	367013	59.80	ng/uL	93

(#) = qualifier out of range (m) = manual integration

Semi-Volatile Organics Logbooks

ESS Organic Preparation Logbook

Project #: D606113
Prep Date: 6/12/06
Batch ID: SXBF61201
Extraction Method: 3541

Surrogate ID# A 6F05077 B NA 6F03016 C NA
Matrix Spike ID# D 6F07094 E NA F
Analytical Matrix: Soil
Extraction Time: Start: 8:00 Finish:

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
SXBF61201-B	20.0	1A	NA	1	1	NA	6/12/06	40	NA	NA		CM	NM	JS
-B1	20.0	1A	1	1	1									
-B1D	20.0	1A	1	1	1									
LLXBF61201-B1	20.0	1B	0.02	1	1									
-B1D	20.0	1B	0.02	1	1									
D606113-D1	19.1	1A	NA	1	1									
-D2	20.2	1A		1	1									
-D3	21.0	1A		1	1									
-D4	19.9	1A		1	1									
-D5	19.7	1A		1	1									
-D6	19.6	1A		1	1									
-D7	19.9	1A		1	1									
-D8	20.4	1A		1	1									
-D9	20.1	1A		1	1									
-10	20.0	1A		1	1									
-11	21.0	1A		1	1									
-12	19.8	1A		1	1									
-13	20.4	1A		1	1									
-14	20.6	1A		1	1									
-15	21.0	1A		1	1									
-16	20.2	1A	↓	1	1									
-17	21.0	1A	NA	1	1									
-17MS	19.2	1A	1	1	1	↓	↓	↓	↓	↓		↓	↓	
-17MSD	19.9	1A	1	1	1	NA	6/12/06	40	NA	NA		CM	NM	JS

Analysis Performed: PCB ☐ B/N SVOA ☐ SVOA ☒ LL PAH ☐ PEST ☐ TPH/GC ☐ BIS-2 ☐ PAH ☐

Acid Washed: Y / N H_2SO_4 ID# NA
Cu Cleaned: Y / N Cu ID# NA
Florisiled: Y / N Lot# NA
Silica Column/Carbon prep: Y / N Lot # NA

CH_2Cl_2 lot # C0479 NaOH ID# NA
Hexane lot# NA Na_2SO_4 ID# RCT052206B
Acetone lot# NA

Prepared By: CM Glasswool: MET060606A Method #(s): 8270

**Check off column if entire sample used and bottle discarded.

Semi-Volatile Organics Data Package

Low Level PAH (SIMS)

Semi-Volatile Organics
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI202
Date Sampled: 06/07/06 10:42
Percent Solids: 84
Initial Volume: 20.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-02
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte		Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene		ND	ug/Kg dry	29.5	1	06/14/06
2-Methylnaphthalene		ND	ug/Kg dry	29.5	1	06/14/06
Acenaphthene		ND	ug/Kg dry	29.5	1	06/14/06
Acenaphthylene		ND	ug/Kg dry	29.5	1	06/14/06
Anthracene		**57.2**	ug/Kg dry	29.5	1	06/14/06
Benzo(a)anthracene		**203**	ug/Kg dry	29.5	1	06/14/06
Benzo(a)pyrene		**203**	ug/Kg dry	29.5	1	06/14/06
Benzo(b)fluoranthene		**240**	ug/Kg dry	29.5	1	06/14/06
Benzo(g,h,i)perylene		**57.8**	ug/Kg dry	29.5	1	06/14/06
Benzo(k)fluoranthene		**183**	ug/Kg dry	29.5	1	06/14/06
Chrysene		**229**	ug/Kg dry	29.5	1	06/14/06
Dibenzo(a,h)Anthracene		**33.0**	ug/Kg dry	29.5	1	06/14/06
Fluoranthene	E	**743**	ug/Kg dry	29.5	1	06/14/06
Fluorene		ND	ug/Kg dry	29.5	1	06/14/06
Indeno(1,2,3-cd)Pyrene		**63.6**	ug/Kg dry	29.5	1	06/14/06
Naphthalene		ND	ug/Kg dry	29.5	1	06/14/06
Phenanthrene		**300**	ug/Kg dry	29.5	1	06/14/06
Pyrene	E	**503**	ug/Kg dry	29.5	1	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*68 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*74 %*		*30-130*
Surrogate: Nitrobenzene-d5	*71 %*		*30-130*
Surrogate: p-Terphenyl-d14	*117 %*		*30-130*

REVISED

JUL 24 2006

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI202
Date Sampled: 06/07/06 10:42
Percent Solids: 84
Initial Volume: 20.2
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-02RE1
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	118	4	06/15/06
2-Methylnaphthalene	ND	ug/Kg dry	118	4	06/15/06
Acenaphthene	ND	ug/Kg dry	118	4	06/15/06
Acenaphthylene	ND	ug/Kg dry	118	4	06/15/06
Anthracene	ND	ug/Kg dry	118	4	06/15/06
Benzo(a)anthracene	**240**	ug/Kg dry	118	4	06/15/06
Benzo(a)pyrene	**229**	ug/Kg dry	118	4	06/15/06
Benzo(b)fluoranthene	**196**	ug/Kg dry	118	4	06/15/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	118	4	06/15/06
Benzo(k)fluoranthene	**172**	ug/Kg dry	118	4	06/15/06
Chrysene	**281**	ug/Kg dry	118	4	06/15/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	118	4	06/15/06
Fluoranthene	**646**	ug/Kg dry	118	4	06/15/06
Fluorene	ND	ug/Kg dry	118	4	06/15/06
Indeno(1,2,3-cd)Pyrene	**132**	ug/Kg dry	118	4	06/15/06
Naphthalene	ND	ug/Kg dry	118	4	06/15/06
Phenanthrene	**358**	ug/Kg dry	118	4	06/15/06
Pyrene	**450**	ug/Kg dry	118	4	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*96 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*103 %*		*30-130*
Surrogate: Nitrobenzene-d5	*94 %*		*30-130*
Surrogate: p-Terphenyl-d14	*103 %*		*30-130*

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JUL 24 2006

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI012
Date Sampled: 06/08/06 12:29
Percent Solids: 92
Initial Volume: 19.6
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-06
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte		Results	Units	MRL	DF	Analyzed
1-MethylNaphthalene		ND	ug/Kg dry	27.7	1	06/14/06
2-MethylNaphthalene		ND	ug/Kg dry	27.7	1	06/14/06
Acenaphthene		ND	ug/Kg dry	27.7	1	06/14/06
Acenaphthylene		ND	ug/Kg dry	27.7	1	06/14/06
Anthracene		ND	ug/Kg dry	27.7	1	06/14/06
Benzo(a)anthracene		**177**	ug/Kg dry	27.7	1	06/14/06
Benzo(a)pyrene		**211**	ug/Kg dry	27.7	1	06/14/06
Benzo(b)fluoranthene		**244**	ug/Kg dry	27.7	1	06/14/06
Benzo(g,h,i)perylene		**61.0**	ug/Kg dry	27.7	1	06/14/06
Benzo(k)fluoranthene		**192**	ug/Kg dry	27.7	1	06/14/06
Chrysene		**184**	ug/Kg dry	27.7	1	06/14/06
Dibenzo(a,h)Anthracene		**27.7**	ug/Kg dry	27.7	1	06/14/06
Fluoranthene	E	**474**	ug/Kg dry	27.7	1	06/14/06
Fluorene		ND	ug/Kg dry	27.7	1	06/14/06
Indeno(1,2,3-cd)Pyrene		**68.2**	ug/Kg dry	27.7	1	06/14/06
Naphthalene		ND	ug/Kg dry	27.7	1	06/14/06
Phenanthrene		**62.1**	ug/Kg dry	27.7	1	06/14/06
Pyrene		**294**	ug/Kg dry	27.7	1	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*37 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*38 %*		*30-130*
Surrogate: Nitrobenzene-d5	*37 %*		*30-130*
Surrogate: p-Terphenyl-d14	*55 %*		*30-130*

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JUL 24 2006

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI012
Date Sampled: 06/08/06 12:29
Percent Solids: 92
Initial Volume: 19.6
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-06RE1
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	111	4	06/15/06
2-Methylnaphthalene	ND	ug/Kg dry	111	4	06/15/06
Acenaphthene	ND	ug/Kg dry	111	4	06/15/06
Acenaphthylene	ND	ug/Kg dry	111	4	06/15/06
Anthracene	ND	ug/Kg dry	111	4	06/15/06
Benzo(a)anthracene	**286**	ug/Kg dry	111	4	06/15/06
Benzo(a)pyrene	**326**	ug/Kg dry	111	4	06/15/06
Benzo(b)fluoranthene	**262**	ug/Kg dry	111	4	06/15/06
Benzo(g,h,i)perylene	**166**	ug/Kg dry	111	4	06/15/06
Benzo(k)fluoranthene	**251**	ug/Kg dry	111	4	06/15/06
Chrysene	**306**	ug/Kg dry	111	4	06/15/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	111	4	06/15/06
Fluoranthene	**495**	ug/Kg dry	111	4	06/15/06
Fluorene	ND	ug/Kg dry	111	4	06/15/06
Indeno(1,2,3-cd)Pyrene	**193**	ug/Kg dry	111	4	06/15/06
Naphthalene	ND	ug/Kg dry	111	4	06/15/06
Phenanthrene	ND	ug/Kg dry	111	4	06/15/06
Pyrene	**404**	ug/Kg dry	111	4	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*70 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*74 %*		*30-130*
Surrogate: Nitrobenzene-d5	*68 %*		*30-130*
Surrogate: p-Terphenyl-d14	*77 %*		*30-130*

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JUL 21 2006

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI013
Date Sampled: 06/08/06 14:01
Percent Solids: 93
Initial Volume: 19.9
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-07
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte		Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene		ND	ug/Kg dry	27.0	1	06/14/06
2-Methylnaphthalene		ND	ug/Kg dry	27.0	1	06/14/06
Acenaphthene		ND	ug/Kg dry	27.0	1	06/14/06
Acenaphthylene		ND	ug/Kg dry	27.0	1	06/14/06
Anthracene		**81.1**	ug/Kg dry	27.0	1	06/14/06
Benzo(a)anthracene		**193**	ug/Kg dry	27.0	1	06/14/06
Benzo(a)pyrene		**165**	ug/Kg dry	27.0	1	06/14/06
Benzo(b)fluoranthene		**222**	ug/Kg dry	27.0	1	06/14/06
Benzo(g,h,i)perylene		**51.3**	ug/Kg dry	27.0	1	06/14/06
Benzo(k)fluoranthene		**157**	ug/Kg dry	27.0	1	06/14/06
Chrysene		**195**	ug/Kg dry	27.0	1	06/14/06
Dibenzo(a,h)Anthracene		ND	ug/Kg dry	27.0	1	06/14/06
Fluoranthene	E	**781**	ug/Kg dry	27.0	1	06/14/06
Fluorene		**43.8**	ug/Kg dry	27.0	1	06/14/06
Indeno(1,2,3-cd)Pyrene		**57.3**	ug/Kg dry	27.0	1	06/14/06
Naphthalene		ND	ug/Kg dry	27.0	1	06/14/06
Phenanthrene		**413**	ug/Kg dry	27.0	1	06/14/06
Pyrene		**438**	ug/Kg dry	27.0	1	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*72 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*79 %*		*30-130*
Surrogate: Nitrobenzene-d5	*76 %*		*30-130*
Surrogate: p-Terphenyl-d14	*123 %*		*30-130*

REVISED

JUL 24 2006

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI013
Date Sampled: 06/08/06 14:01
Percent Solids: 93
Initial Volume: 19.9
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-07RE1
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	108	4	06/15/06
2-Methylnaphthalene	ND	ug/Kg dry	108	4	06/15/06
Acenaphthene	ND	ug/Kg dry	108	4	06/15/06
Acenaphthylene	ND	ug/Kg dry	108	4	06/15/06
Anthracene	ND	ug/Kg dry	108	4	06/15/06
Benzo(a)anthracene	**186**	ug/Kg dry	108	4	06/15/06
Benzo(a)pyrene	**147**	ug/Kg dry	108	4	06/15/06
Benzo(b)fluoranthene	**147**	ug/Kg dry	108	4	06/15/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	108	4	06/15/06
Benzo(k)fluoranthene	**132**	ug/Kg dry	108	4	06/15/06
Chrysene	**199**	ug/Kg dry	108	4	06/15/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	108	4	06/15/06
Fluoranthene	**504**	ug/Kg dry	108	4	06/15/06
Fluorene	ND	ug/Kg dry	108	4	06/15/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	108	4	06/15/06
Naphthalene	ND	ug/Kg dry	108	4	06/15/06
Phenanthrene	**408**	ug/Kg dry	108	4	06/15/06
Pyrene	**320**	ug/Kg dry	108	4	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*87 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*90 %*		*30-130*
Surrogate: Nitrobenzene-d5	*82 %*		*30-130*
Surrogate: p-Terphenyl-d14	*96 %*		*30-130*

REVISED

JUL 2 ; 2006

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI014
Date Sampled: 06/08/06 14:16
Percent Solids: 94
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-08
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	26.1	1	06/14/06
2-Methylnaphthalene	ND	ug/Kg dry	26.1	1	06/14/06
Acenaphthene	ND	ug/Kg dry	26.1	1	06/14/06
Acenaphthylene	ND	ug/Kg dry	26.1	1	06/14/06
Anthracene	ND	ug/Kg dry	26.1	1	06/14/06
Benzo(a)anthracene	ND	ug/Kg dry	26.1	1	06/14/06
Benzo(a)pyrene	ND	ug/Kg dry	26.1	1	06/14/06
Benzo(b)fluoranthene	ND	ug/Kg dry	26.1	1	06/14/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	26.1	1	06/14/06
Benzo(k)fluoranthene	ND	ug/Kg dry	26.1	1	06/14/06
Chrysene	ND	ug/Kg dry	26.1	1	06/14/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	26.1	1	06/14/06
Fluoranthene	ND	ug/Kg dry	26.1	1	06/14/06
Fluorene	ND	ug/Kg dry	26.1	1	06/14/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	26.1	1	06/14/06
Naphthalene	ND	ug/Kg dry	26.1	1	06/14/06
Phenanthrene	ND	ug/Kg dry	26.1	1	06/14/06
Pyrene	ND	ug/Kg dry	26.1	1	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*64 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*68 %*		*30-130*
Surrogate: Nitrobenzene-d5	*66 %*		*30-130*
Surrogate: p-Terphenyl-d14	*119 %*		*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI018
Date Sampled: 06/08/06 15:18
Percent Solids: 93
Initial Volume: 19.8
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-12
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	27.2	1	06/14/06
2-Methylnaphthalene	ND	ug/Kg dry	27.2	1	06/14/06
Acenaphthene	ND	ug/Kg dry	27.2	1	06/14/06
Acenaphthylene	ND	ug/Kg dry	27.2	1	06/14/06
Anthracene	ND	ug/Kg dry	27.2	1	06/14/06
Benzo(a)anthracene	**71.7**	ug/Kg dry	27.2	1	06/14/06
Benzo(a)pyrene	**86.9**	ug/Kg dry	27.2	1	06/14/06
Benzo(b)fluoranthene	**125**	ug/Kg dry	27.2	1	06/14/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	27.2	1	06/14/06
Benzo(k)fluoranthene	**93.4**	ug/Kg dry	27.2	1	06/14/06
Chrysene	**76.6**	ug/Kg dry	27.2	1	06/14/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	27.2	1	06/14/06
Fluoranthene	**273**	ug/Kg dry	27.2	1	06/14/06
Fluorene	ND	ug/Kg dry	27.2	1	06/14/06
Indeno(1,2,3-cd)Pyrene	**29.3**	ug/Kg dry	27.2	1	06/14/06
Naphthalene	ND	ug/Kg dry	27.2	1	06/14/06
Phenanthrene	**56.5**	ug/Kg dry	27.2	1	06/14/06
Pyrene	**171**	ug/Kg dry	27.2	1	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*71 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*75 %*		*30-130*
Surrogate: Nitrobenzene-d5	*73 %*		*30-130*
Surrogate: p-Terphenyl-d14	*127 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI019
Date Sampled: 06/08/06 15:25
Percent Solids: 93
Initial Volume: 20.4
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-13
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	26.4	1	06/14/06
2-Methylnaphthalene	ND	ug/Kg dry	26.4	1	06/14/06
Acenaphthene	ND	ug/Kg dry	26.4	1	06/14/06
Acenaphthylene	ND	ug/Kg dry	26.4	1	06/14/06
Anthracene	ND	ug/Kg dry	26.4	1	06/14/06
Benzo(a)anthracene	**33.2**	ug/Kg dry	26.4	1	06/14/06
Benzo(a)pyrene	**58.5**	ug/Kg dry	26.4	1	06/14/06
Benzo(b)fluoranthene	**88.6**	ug/Kg dry	26.4	1	06/14/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	26.4	1	06/14/06
Benzo(k)fluoranthene	**63.8**	ug/Kg dry	26.4	1	06/14/06
Chrysene	**42.7**	ug/Kg dry	26.4	1	06/14/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	26.4	1	06/14/06
Fluoranthene	**116**	ug/Kg dry	26.4	1	06/14/06
Fluorene	ND	ug/Kg dry	26.4	1	06/14/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	26.4	1	06/14/06
Naphthalene	ND	ug/Kg dry	26.4	1	06/14/06
Phenanthrene	**36.4**	ug/Kg dry	26.4	1	06/14/06
Pyrene	**82.8**	ug/Kg dry	26.4	1	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*71 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*81 %*		*30-130*
Surrogate: Nitrobenzene-d5	*74 %*		*30-130*
Surrogate: p-Terphenyl-d14	*148 %*	+	*30-130*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI101
Date Sampled: 06/08/06 09:52
Percent Solids: 85
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-15
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	28.0	1	06/14/06
2-Methylnaphthalene	ND	ug/Kg dry	28.0	1	06/14/06
Acenaphthene	ND	ug/Kg dry	28.0	1	06/14/06
Acenaphthylene	ND	ug/Kg dry	28.0	1	06/14/06
Anthracene	ND	ug/Kg dry	28.0	1	06/14/06
Benzo(a)anthracene	**108**	ug/Kg dry	28.0	1	06/14/06
Benzo(a)pyrene	**137**	ug/Kg dry	28.0	1	06/14/06
Benzo(b)fluoranthene	**174**	ug/Kg dry	28.0	1	06/14/06
Benzo(g,h,i)perylene	**34.2**	ug/Kg dry	28.0	1	06/14/06
Benzo(k)fluoranthene	**128**	ug/Kg dry	28.0	1	06/14/06
Chrysene	**141**	ug/Kg dry	28.0	1	06/14/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	28.0	1	06/14/06
Fluoranthene	**429**	ug/Kg dry	28.0	1	06/14/06
Fluorene	ND	ug/Kg dry	28.0	1	06/14/06
Indeno(1,2,3-cd)Pyrene	**39.2**	ug/Kg dry	28.0	1	06/14/06
Naphthalene	ND	ug/Kg dry	28.0	1	06/14/06
Phenanthrene	**123**	ug/Kg dry	28.0	1	06/14/06
Pyrene	**267**	ug/Kg dry	28.0	1	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*73 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*81 %*		*30-130*
Surrogate: Nitrobenzene-d5	*78 %*		*30-130*
Surrogate: p-Terphenyl-d14	*122 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI205
Date Sampled: 06/08/06 07:44
Percent Solids: 89
Initial Volume: 21
Final Volume: 1
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-17
Sample Matrix: Soil
Analyst: VSC
Prepared: 06/12/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
1-Methylnaphthalene	ND	ug/Kg dry	26.8	1	06/15/06
2-Methylnaphthalene	ND	ug/Kg dry	26.8	1	06/15/06
Acenaphthene	ND	ug/Kg dry	26.8	1	06/15/06
Acenaphthylene	ND	ug/Kg dry	26.8	1	06/15/06
Anthracene	ND	ug/Kg dry	26.8	1	06/15/06
Benzo(a)anthracene	ND	ug/Kg dry	26.8	1	06/15/06
Benzo(a)pyrene	**27.3**	ug/Kg dry	26.8	1	06/15/06
Benzo(b)fluoranthene	ND	ug/Kg dry	26.8	1	06/15/06
Benzo(g,h,i)perylene	ND	ug/Kg dry	26.8	1	06/15/06
Benzo(k)fluoranthene	ND	ug/Kg dry	26.8	1	06/15/06
Chrysene	**28.4**	ug/Kg dry	26.8	1	06/15/06
Dibenzo(a,h)Anthracene	ND	ug/Kg dry	26.8	1	06/15/06
Fluoranthene	**62.6**	ug/Kg dry	26.8	1	06/15/06
Fluorene	ND	ug/Kg dry	26.8	1	06/15/06
Indeno(1,2,3-cd)Pyrene	ND	ug/Kg dry	26.8	1	06/15/06
Naphthalene	ND	ug/Kg dry	26.8	1	06/15/06
Phenanthrene	ND	ug/Kg dry	26.8	1	06/15/06
Pyrene	**37.5**	ug/Kg dry	26.8	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*64 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*77 %*		*30-130*
Surrogate: Nitrobenzene-d5	*69 %*		*30-130*
Surrogate: p-Terphenyl-d14	*85 %*		*30-130*

Semi-Volatile Organics Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C(SIM) Polynuclear Aromatic Hydrocarbons										
Batch BF61218 - 3510C										
Phenanthrene	1.97	0.20	ug/L	2.50		79	40-140			
Pyrene	2.52	0.20	ug/L	2.50		101	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.69*		ug/L	*2.50*		*108*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.30*		ug/L	*2.50*		*92*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.10*		ug/L	*2.50*		*84*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.83*		ug/L	*2.50*		*113*	*30-130*			
LCS Dup										
2-Methylnaphthalene	2.24	0.20	ug/L	2.50		90	40-140	18	20	
Acenaphthene	2.28	0.20	ug/L	2.50		91	40-140	14	20	
Acenaphthylene	2.22	0.20	ug/L	2.50		89	40-140	16	20	
Anthracene	2.43	0.20	ug/L	2.50		97	40-140	11	20	
Benzo(a)anthracene	2.42	0.20	ug/L	2.50		97	40-140	10	20	
Benzo(a)pyrene	2.38	0.20	ug/L	2.50		95	40-140	4	20	
Benzo(b)fluoranthene	2.19	0.20	ug/L	2.50		88	40-140	46	20	+
Benzo(g,h,i)perylene	1.55	0.20	ug/L	2.50		62	40-140	36	20	+
Benzo(k)fluoranthene	2.26	0.30	ug/L	2.50		90	40-140	39	20	+
Chrysene	2.41	0.20	ug/L	2.50		96	40-140	9	20	
Dibenzo(a,h)Anthracene	1.93	0.20	ug/L	2.50		77	40-140	43	20	+
Fluoranthene	2.58	0.20	ug/L	2.50		103	40-140	7	20	
Fluorene	2.40	0.20	ug/L	2.50		96	40-140	12	20	
Indeno(1,2,3-cd)Pyrene	1.84	0.30	ug/L	2.50		74	40-140	47	20	+
Naphthalene	2.14	0.20	ug/L	2.50		86	40-140	16	20	
Phenanthrene	2.31	0.20	ug/L	2.50		92	40-140	15	20	
Pyrene	2.25	0.20	ug/L	2.50		90	40-140	12	20	
Surrogate: 1,2-Dichlorobenzene-d4	*2.64*		ug/L	*2.50*		*106*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.55*		ug/L	*2.50*		*102*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.46*		ug/L	*2.50*		*98*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.61*		ug/L	*2.50*		*104*	*30-130*			
Batch BF61535 - 3541										
Blank										
1-Methylnaphthalene	ND	25.0	ug/Kg wet							
2-Methylnaphthalene	ND	25.0	ug/Kg wet							
Acenaphthene	ND	25.0	ug/Kg wet							
Acenaphthylene	ND	25.0	ug/Kg wet							
Anthracene	ND	25.0	ug/Kg wet							
Benzo(a)anthracene	ND	25.0	ug/Kg wet							
Benzo(a)pyrene	ND	25.0	ug/Kg wet							
Benzo(b)fluoranthene	ND	25.0	ug/Kg wet							
Benzo(g,h,i)perylene	ND	25.0	ug/Kg wet							
Benzo(k)fluoranthene	ND	25.0	ug/Kg wet							
Chrysene	ND	25.0	ug/Kg wet							
Dibenzo(a,h)Anthracene	ND	25.0	ug/Kg wet							
Fluoranthene	ND	25.0	ug/Kg wet							
Fluorene	ND	25.0	ug/Kg wet							
Indeno(1,2,3-cd)Pyrene	ND	25.0	ug/Kg wet							
Naphthalene	ND	25.0	ug/Kg wet							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C(SIM) Polynuclear Aromatic Hydrocarbons										
Batch BF61535 - 3541										
Phenanthrene	ND	25.0	ug/Kg wet							
Pyrene	ND	25.0	ug/Kg wet							
Surrogate: 1,2-Dichlorobenzene-d4	*4050*		ug/Kg wet	*5000*		*81*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*4550*		ug/Kg wet	*5000*		*91*	*30-130*			
Surrogate: Nitrobenzene-d5	*4510*		ug/Kg wet	*5000*		*90*	*30-130*			
Surrogate: p-Terphenyl-d14	*7650*		ug/Kg wet	*5000*		*153*	*30-130*			+
LCS										
2-Methylnaphthalene	104	25.0	ug/Kg wet	125		83	40-140			
Acenaphthene	104	25.0	ug/Kg wet	125		83	40-140			
Acenaphthylene	102	25.0	ug/Kg wet	125		82	40-140			
Anthracene	115	25.0	ug/Kg wet	125		92	40-140			
Benzo(a)anthracene	113	25.0	ug/Kg wet	125		90	40-140			
Benzo(a)pyrene	114	25.0	ug/Kg wet	125		91	40-140			
Benzo(b)fluoranthene	128	25.0	ug/Kg wet	125		102	40-140			
Benzo(g,h,i)perylene	61.5	25.0	ug/Kg wet	125		49	40-140			
Benzo(k)fluoranthene	128	25.0	ug/Kg wet	125		102	40-140			
Chrysene	112	25.0	ug/Kg wet	125		90	40-140			
Dibenzo(a,h)Anthracene	73.0	25.0	ug/Kg wet	125		58	40-140			
Fluoranthene	156	25.0	ug/Kg wet	125		125	40-140			
Fluorene	115	25.0	ug/Kg wet	125		92	40-140			
Indeno(1,2,3-cd)Pyrene	69.5	25.0	ug/Kg wet	125		56	40-140			
Naphthalene	98.0	25.0	ug/Kg wet	125		78	40-140			
Phenanthrene	105	25.0	ug/Kg wet	125		84	40-140			
Pyrene	130	25.0	ug/Kg wet	125		104	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*126*		ug/Kg wet	*5000*		*3*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*123*		ug/Kg wet	*5000*		*2*	*30-130*			
Surrogate: Nitrobenzene-d5	*114*		ug/Kg wet	*5000*		*2*	*30-130*			
Surrogate: p-Terphenyl-d14	*137*		ug/Kg wet	*5000*		*3*	*30-130*			
LCS Dup										
2-Methylnaphthalene	106	25.0	ug/Kg wet	125		85	40-140	2	30	
Acenaphthene	108	25.0	ug/Kg wet	125		86	40-140	4	30	
Acenaphthylene	104	25.0	ug/Kg wet	125		83	40-140	1	30	
Anthracene	120	25.0	ug/Kg wet	125		96	40-140	4	30	
Benzo(a)anthracene	124	25.0	ug/Kg wet	125		99	40-140	10	30	
Benzo(a)pyrene	126	25.0	ug/Kg wet	125		101	40-140	10	30	
Benzo(b)fluoranthene	136	25.0	ug/Kg wet	125		109	40-140	7	30	
Benzo(g,h,i)perylene	78.5	25.0	ug/Kg wet	125		63	40-140	25	30	
Benzo(k)fluoranthene	140	25.0	ug/Kg wet	125		112	40-140	9	30	
Chrysene	125	25.0	ug/Kg wet	125		100	40-140	11	30	
Dibenzo(a,h)Anthracene	90.5	25.0	ug/Kg wet	125		72	40-140	22	30	
Fluoranthene	162	25.0	ug/Kg wet	125		130	40-140	4	30	
Fluorene	117	25.0	ug/Kg wet	125		94	40-140	2	30	
Indeno(1,2,3-cd)Pyrene	86.0	25.0	ug/Kg wet	125		69	40-140	21	30	
Naphthalene	99.0	25.0	ug/Kg wet	125		79	40-140	1	30	
Phenanthrene	110	25.0	ug/Kg wet	125		88	40-140	5	30	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C(SIM) Polynuclear Aromatic Hydrocarbons										
Batch BF61535 - 3541										
Pyrene	160	25.0	ug/Kg wet	125		128	40-140	21	30	
Surrogate: 1,2-Dichlorobenzene-d4	*142*		ug/Kg wet	*5000*		*3*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*120*		ug/Kg wet	*5000*		*2*	*30-130*			
Surrogate: Nitrobenzene-d5	*111*		ug/Kg wet	*5000*		*2*	*30-130*			
Surrogate: p-Terphenyl-d14	*156*		ug/Kg wet	*5000*		*3*	*30-130*			

Semi-Volatile Organics Calibration Data

ANALYSIS SEQUENCE

BPF0076

Instrument: SVOAMS2

Calibnration ID: UNASSIGNED PAH20X

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0076-TUN1	QC		1		6E12106		
BPF0076-CAL1	QC		2		6E03046	6D26044	
BPF0076-CAL2	QC		3		6E03047	6D26044	
BPF0076-CAL3	QC		4		6E03048	6D26044	
BPF0076-CAL4	QC		5		6E03049	6D26044	
BPF0076-CAL5	QC		6		6E03050	6D26044	
BPF0076-CAL6	QC		7		6E03051	6D26044	
BPF0076-CAL7	QC		8		6C01076	6C02047	
BPF0076-SCV1	QC		9		6E03052	6D26044	

Samples Loaded By Date

Data Processed By Date

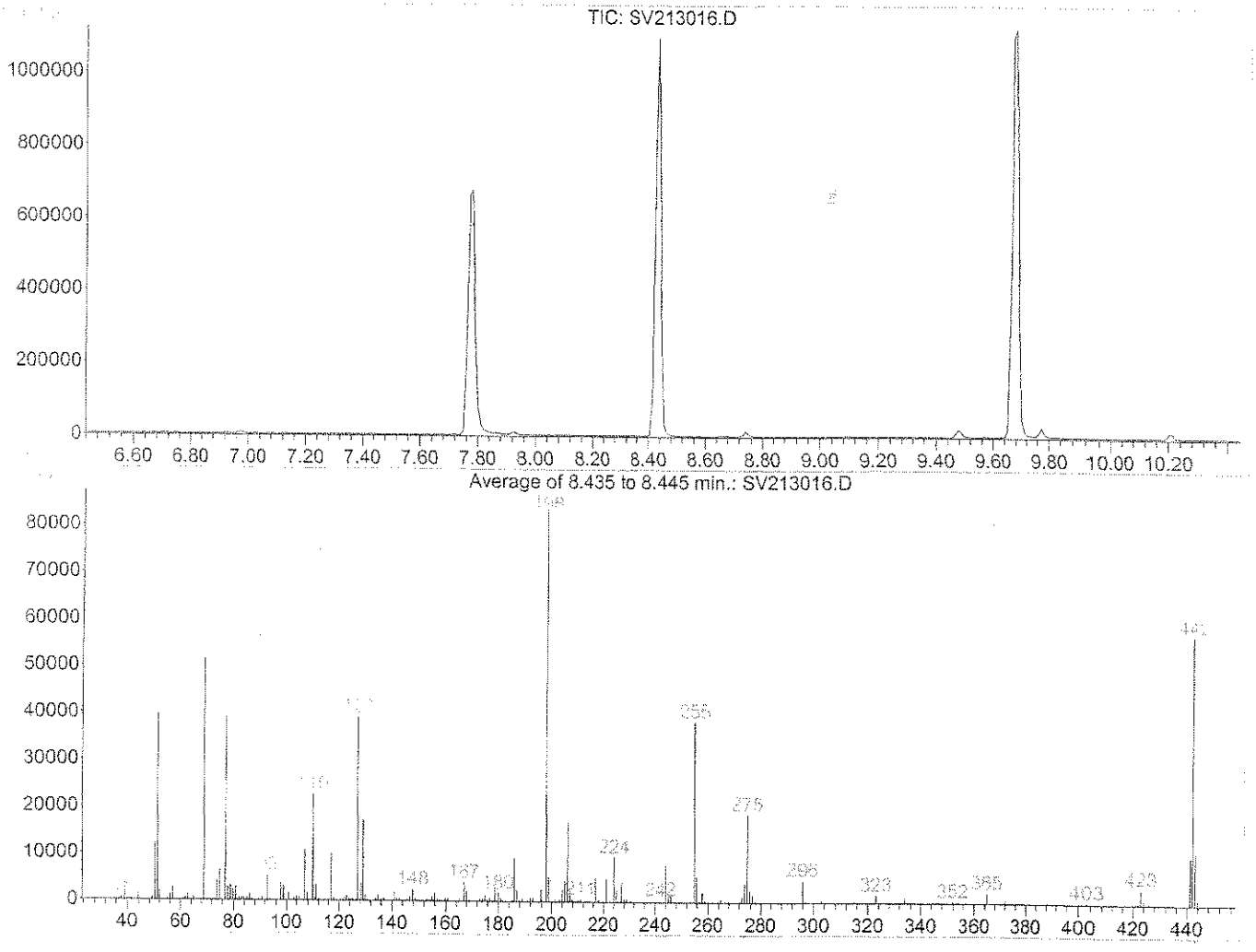
ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/7/06	21	SV2 130,4	060547 8-06	SV2KG		
6/7/06	22	SV2 130 15	060547 8-08	SV2KG		USE
6/8/06	1 ~~23~~	SV2 16	BPF0076 - TUN1	DFTPP	6E12106	
	2	SV2 17	" - CCV1	~~PAH2DW~~		
	2	SV2 18	" - CCV1	PAH2DW		
	3	SV2 19	" - CCV1	PAH2DX	6E22059	
	4	SV2 20	" - Col2		58	
	5	SV2 21	" - Col3		57	
	6	SV2 22	" - Col4		55	
	7	SV2 23	" - Col5		54	
	8	SV2 24	" - Col6		53	
	9	SV2 25	" - Col7		52	
	10	SV2 26	BPF0076 - SCV1	PAH2DX	60	JCS
	1	SV2 27	BPF0077 - TUN1	DFTPP		SEB
	2	SV2 28	BPF0077 CCV	PAH2DX		
	3	SV2 29	BF60501 - BLK3		DR IS Failed	
	4	SV2 30	060601 4-01			
	5	SV2 31	" - 02			
	6	SV2 32	060601 4-03			
	7	SV2 33	BF60501 - BLK3			
	8	SV2 34	060601 4-04			
	9	SV2 35	" - 05			
6/9/06	10	SV2 36	060601 4-00		RR	
6/9/06	1	SV2 37	BPF0077 - TUN1	DFTPP	✓	JCS
	2	SV2 38	BPF0077 CCV1	PAH2DX	✓	
	3	SV2 39	BF60501 - BLK3		✓	
	4	SV2 40	060601 4-01		✓	
	5	SV2 41	060601 4-02		✓ RR 10X	
6/9/06	6	SV2 42	060601 4-03	PAH2DX	✓	JCS

DFTPP

Data File : Q:\SVOA\MS2_ME\ME0606\ME060806\SV213016.D Vial: 1
Acq On : 8 Jun 2006 7:39 am Operator: JLS
Sample : BPF0076-TUN1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\PAH2DX.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606012



Spectrum Information: Average of 8.435 to 8.445 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	47.9	39847	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	61.9	51443	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	47.0	39031	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	83112	PASS
199	198	5	9	6.5	5385	PASS
275	198	10	30	22.4	18647	PASS
365	198	1	100	2.6	2172	PASS
441	443	0.01	100	93.3	10103	PASS
442	198	40	100	68.7	57080	PASS
443	442	17	23	19.0	10826	PASS

Response Factor Report GC/MS 2

Method : C:\HPCHEM\1\METHODS\PAH2DX.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606012
Last Update : Fri Jun 16 08:26:48 2006
Response via : Initial Calibration

Calibration Files
0.2 =SV213020.D 0.4 =SV213021.D 1.0 =SV213022.D
2.0 =SV213023.D 5.0 =SV213024.D 8.0 =SV213025.D

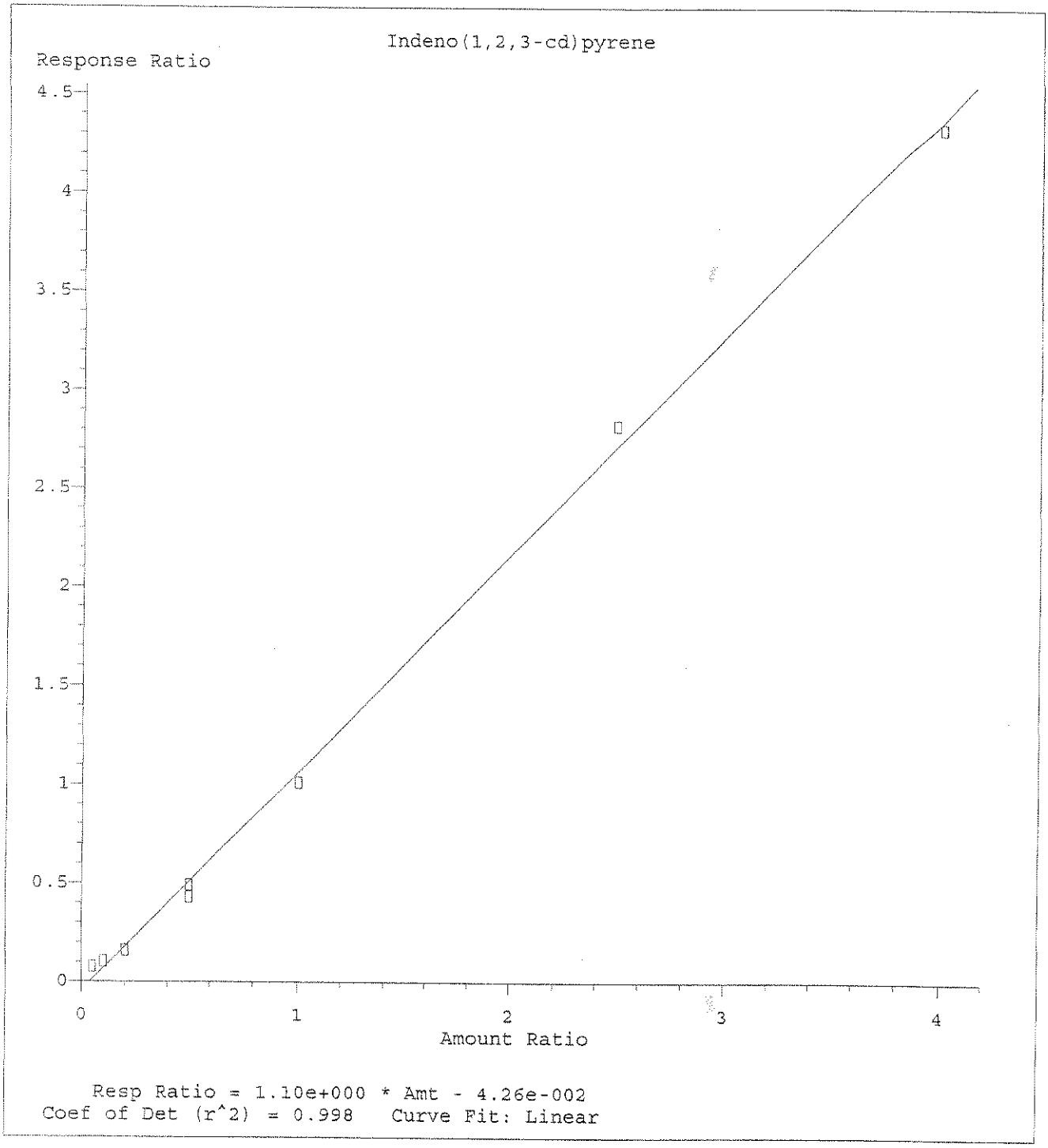
		Compound	0.2	0.4	1.0	2.0	5.0	8.0	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)	S	1,2 Dichlorobenzene	0.856	0.764	0.799	0.792	0.818	0.787	0.823	7.40
3)		Naphthalene-d8	----------ISTD----------							
4)	S	Nitrobenzene-d5 (SU	0.395	0.388	0.374	0.369	0.380	0.372	0.389	7.11
5)		Naphthalene	1.077	0.957	0.921	0.927	0.941	0.901	0.995	12.45
6)		2-Methylnaphthalene	0.634	0.582	0.566	0.569	0.582	0.585	0.610	10.84
7)		1-Methylnaphthalene	0.631	0.581	0.561	0.565	0.578	0.576	0.604	10.34
8)		Acenaphthene-d10	----------ISTD----------							
9)	S	2-Fluorobiphenyl (S	1.283	1.174	1.116	1.146	1.164	1.154	1.220	11.05
10)		Acenaphthylene	1.850	1.668	1.635	1.701	1.735	1.727	1.778	9.53
11)	C	Acenaphthene	1.211	1.079	1.047	1.075	1.092	1.072	1.139	11.04#
12)		Fluorene	1.209	1.091	1.072	0.997	1.129	1.064	1.133	10.79
13)		Phenanthrene-d10	----------ISTD----------							
14)	S	2,4,6-Tribromopheno	0.064	0.058	0.075	0.070	0.072	0.076	0.070	10.00
15)	C	Pentachlorophenol	0.041	0.041	0.052	0.059	0.075	0.078	0.055	29.29#
16)		Phenanthrene	1.260	1.124	1.116	1.114	1.116	1.095	1.188	12.22
17)		Anthracene	1.183	1.054	1.063	1.086	1.109	1.095	1.137	9.73
18)	C	Fluoranthene	0.671	0.552	0.732	0.664	0.594	0.719	0.690	16.16#
19)		Chrysene-d12	----------ISTD----------							
20)		Pyrene	2.419	2.278	2.162	2.130	2.168	1.918	2.264	11.93
21)	S	Terphenyl-d14 (SURR	1.093	1.020	1.001	0.963	0.969	0.874	1.028	12.46
22)		Benzo(a)anthracene	1.349	1.200	1.180	1.196	1.254	1.256	1.296	12.35
23)		Chrysene	1.362	1.219	1.196	1.188	1.209	1.182	1.293	14.48
24)		Perylene-d12	----------ISTD----------							
25)		Benzo(b)fluoranthen	1.405	1.292	1.243	1.294	1.338	1.344	1.370	10.41
26)		Benzo(k)fluoranthen	1.531	1.290	1.312	1.412	1.531	1.595	1.483	10.34
27)	C	Benzo(a)pyrene	1.198	1.075	1.083	1.107	1.210	1.209	1.198	12.23#
28)		Indeno(1,2,3-cd)pyr	1.043	0.805	0.982	1.010	1.129	1.082	1.085	20.96
29)		Dibenzo(a,h)anthrac	0.795	0.592	0.772	0.800	0.912	0.881	0.842	19.91
30)		Benzo(g,h,i)perylen	0.961	0.729	0.865	0.857	0.929	0.862	0.962	27.19

Avg RF

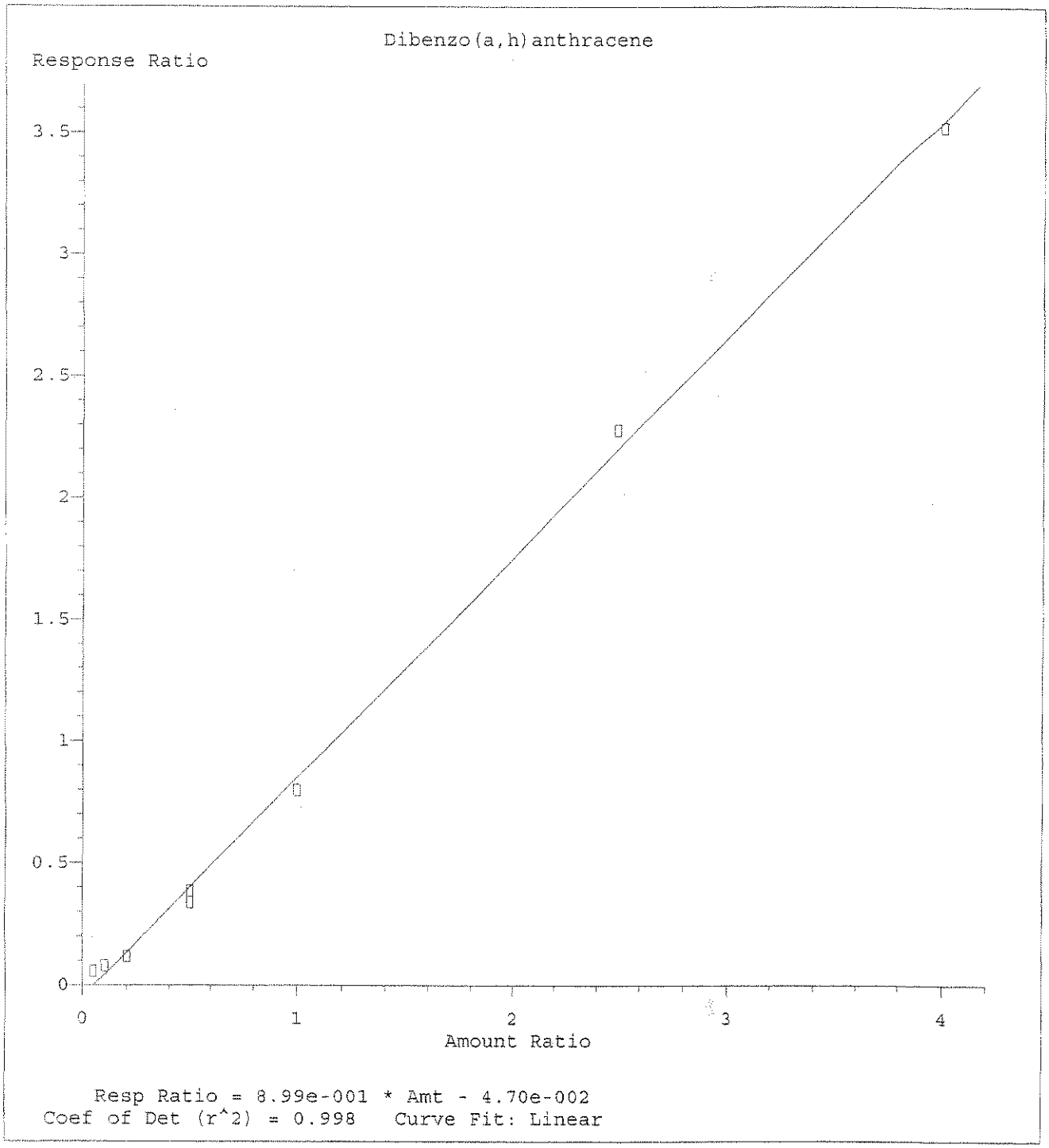
Linear Curve.

Linear Curve

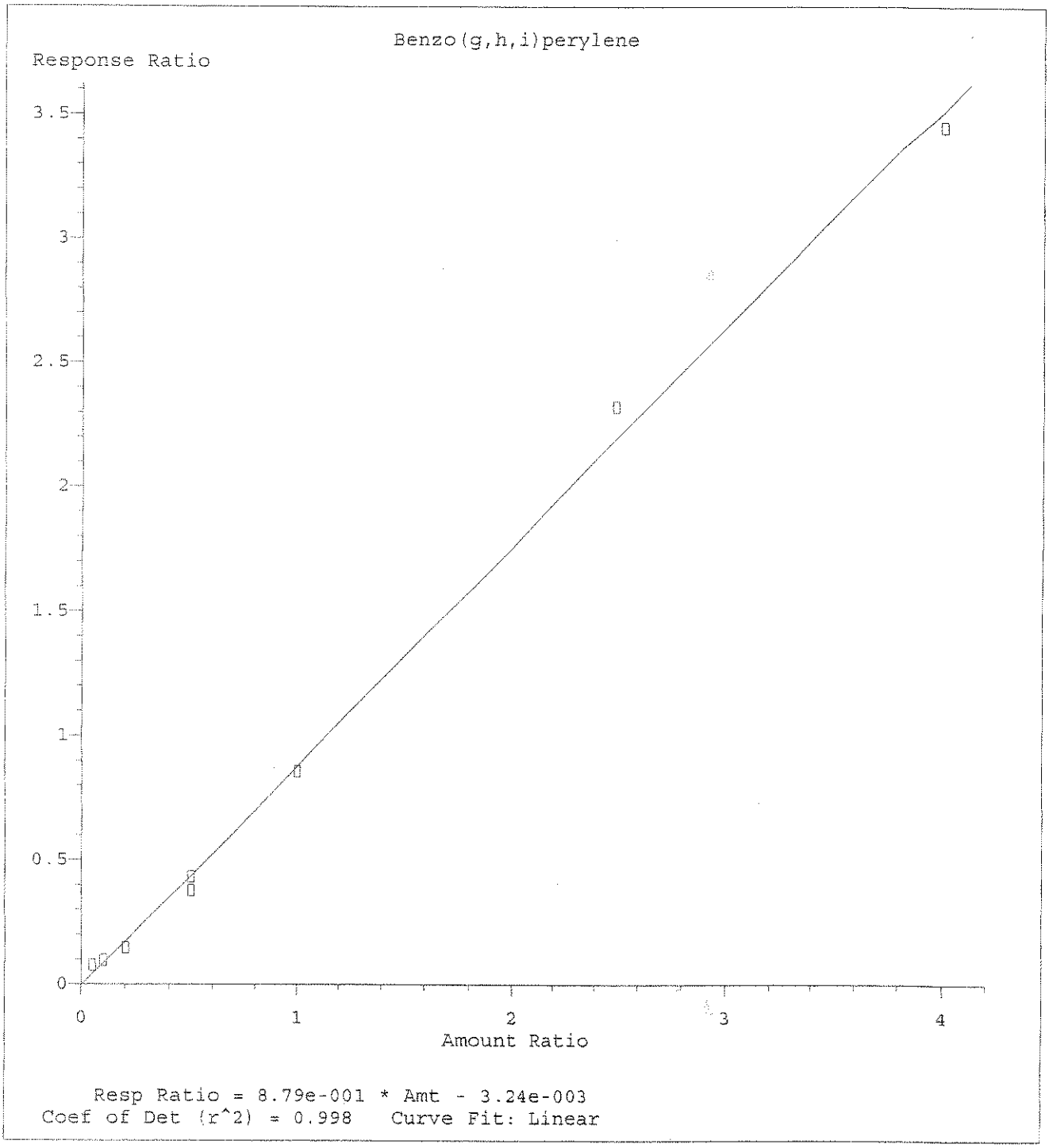
(#) = Out of Range ### Number of calibration levels exceeded format ###



Method Name: C:\HPCHEM\1\METHODS\PAH2DX.M
Calibration Table Last Updated: Fri Jun 16 08:26:48 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DX.M
Calibration Table Last Updated: Fri Jun 16 08:26:48 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DX.M
Calibration Table Last Updated: Fri Jun 16 08:26:48 2006

ANALYSIS SEQUENCE

BPF0119

Instrument: SVOAMS2

Calibnration ID: ~~UNASSIGNED~~ PAH20X

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0119-TUN1	QC		1		6E31075		
BPF0119-CCV1	QC		2		6E03048	6D26044	
0606113-18	SVOC: 8270 ppb PAH SIM	A	3			6D26044	MACTEC Engineering & Consulting, In
BF61218-BS1	QC		4			6D26044	
0606113-02	VOC: 8270/3541 ppb PAH SI	A	5			6D26044	MACTEC Engineering & Consulting, In
0606113-06	VOC: 8270/3541 ppb PAH SI	A	6			6D26044	MACTEC Engineering & Consulting, In
0606113-07	VOC: 8270/3541 ppb PAH SI	A	7			6D26044	MACTEC Engineering & Consulting, In
0606113-08	VOC: 8270/3541 ppb PAH SI	A	8			6D26044	MACTEC Engineering & Consulting, In
0606113-12	VOC: 8270/3541 ppb PAH SI	A	9			6D26044	MACTEC Engineering & Consulting, In
0606113-13	VOC: 8270/3541 ppb PAH SI	A	10			6D26044	MACTEC Engineering & Consulting, In
0606113-15	VOC: 8270/3541 ppb PAH SI	A	11			6D26044	MACTEC Engineering & Consulting, In
BF61535-BLK1	QC		12			6D26044	
BF61535-BS1	QC		13			6D26044	
BF61535-BSD1	QC		14			6D26044	

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/13/06	7	SV2 131 26	BF60724-BS1	PAH2DX		VE
	8	SV2 27	BF60724-BSD1			
	9	SV2 28	0606078-07			
	10	SV2 29	-15			
	11	SV2 30	-14			
	12	SV2 31	-09		RR ~~5X~~ 4X	
	13	SV2 32	-03		RR 2X	
	14	SV2 33	-02		RR ~~5X~~	
	15	SV2 34	-05		~~RR 5X~~ ~~RR 10X~~	
	16	SV2 35	-01		RR 4X 8270	
	17	SV2 36	-DUP			
	18	SV2 37	-DUP2			
	19	SV2 38	-06			
	20	SV2 39	-10			
	21	SV2 40	-11		more needed	
6/13/06	22	SV2 41	0606078-16	PAH2DX		VE
6/14/06	1	SV2 42	~~BF60724~~ BPF0119-TMS1	DFTPP		VC
	2	SV2 43	BPF0119-TCV1	PAH2DX		
	3	SV2 44	BF61201-BLK1		~~RR~~	
	4	SV2 45	BF61201-BS1			
	5	SV2 46	BF61201-BSD1			
	6	SV2 47	0606113-02		RR 4X	
	7	SV2 48	-06		RR ~~5X~~	
	8	SV2 49	-07		RR 4X	
	9	SV2 50	-15			
	10	SV2 51	-17		RR 2.5	
	11	SV2 52	-08			
	12	SV2 53	-12			
6/14/06	13	SV2 131 54	0606113-13	PAH2DX		VE

Control Number 60.0019-0601A

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ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/14/06	14	SV2131 55	BF61218-BLK1	PAH2DX	RR is failed	VL
	15	SV2 56	BF61218-BS1			
	16	SV2 57	BF61218-BSD1		RR is failed	
	17	SV2 58	0606113-18			
	18	SV2 59	0606078-04		4X	
	19	SV2 60	0606078-03		2X	
6/14/06	20	SV2 61	0606078-02	PAH2DX	4X	VL
6/15/06	1	SV2 62	BPF8121-TUN1	DFTPP	6F13071	VL
	2	SV2 63	BPF0121-CCV1	PAH2DX		
	2	SV2 64	BPF0121-CCV1			
	3	SV2 65	0606113-17			
	4	SV2 66	BF61218-BLK1			
	5	SV2 67	BF61218-BSD1			
	6	SV2 68	0606113-02		4X	
	7	SV2 69	0606113-06		4X	
	8	SV2 70	0606113-07	PAH2DX	4X	
	1	SV2 71	BPF0124-TUN1	DFTPP	6F13071	
	2	SV2 72	BPF0124-CCV1	SV2KG	6F06044	
	3	SV2 73	0606113-05	PAH2DX		
	4	SV2 74	BF61501-BLK1	SV2KG		
	5	SV2 75	BF61501-BS1			
	6	SV2 76	BF61501-BSD1			
	7	SV2 77	0606223-01			
	8	SV2 78	BF61326-BLK1			
	9	SV2 79	BF61326-BS1			
	10	SV2 80	BF61326-BSD1			
	11	SV2 81	0606143-02			
	12	SV2 82	0606178-01			VL
6/15/06	13	SV2131 83	0606113-16	SV2KG		VL

Control Number 60.0019-0601A

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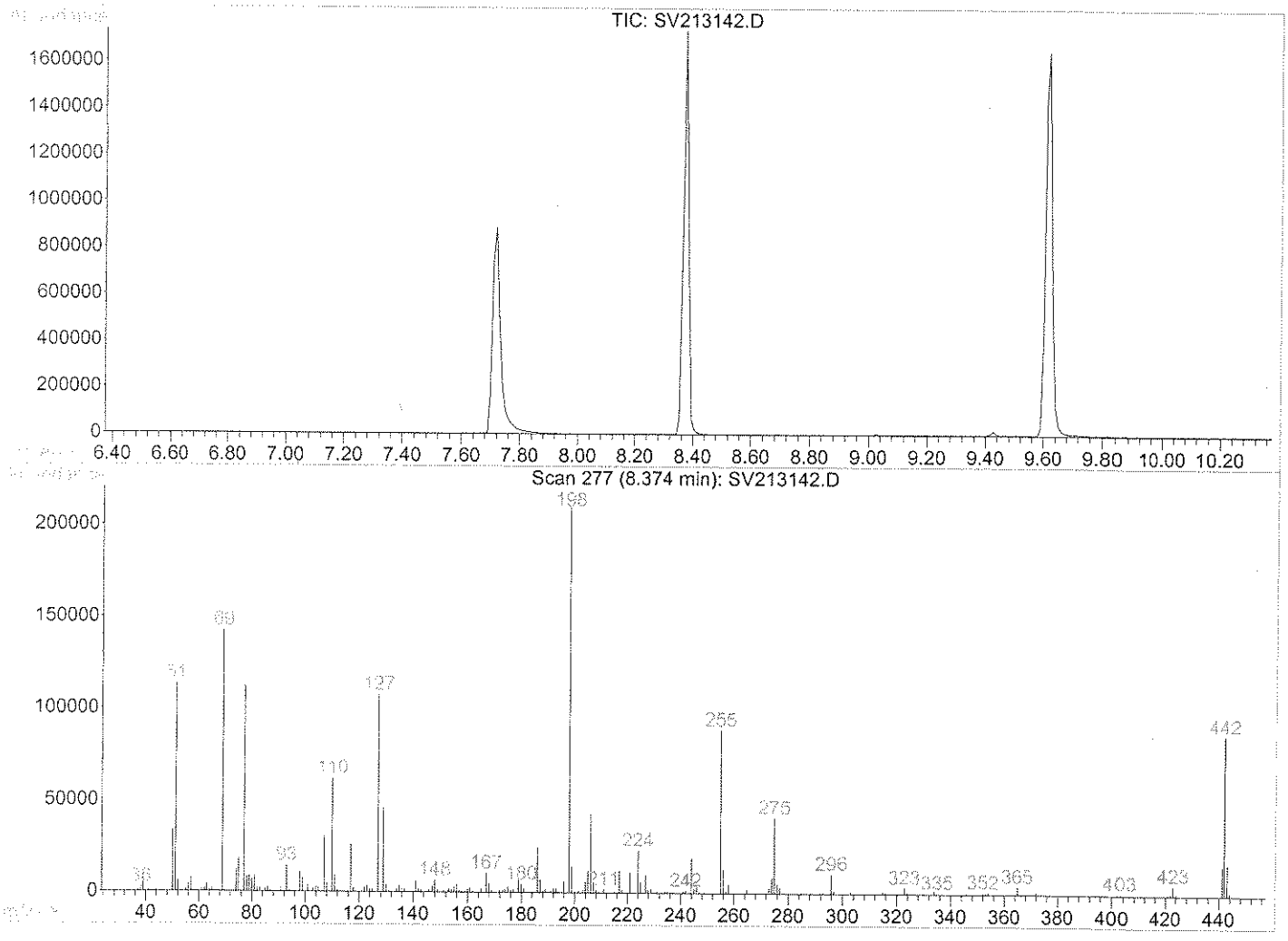
DFTPP

Data File : Q:\SVOA\MS2_ME\ME0606\ME061406\SV213142.D Vial: 1
Acq On : 14 Jun 2006 10:10 am Operator: JLS
Sample : BPF0119-TUN1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\PAH2EB.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0607020



Spectrum Information: Scan 277

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	53.9	113160	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	67.8	142272	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	51.2	107472	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	209792	PASS
199	198	5	9	6.7	14053	PASS
275	198	10	30	19.5	40960	PASS
365	198	1	100	2.0	4121	PASS
441	443	0.01	100	93.0	15856	PASS
442	198	40	100	41.4	86752	PASS
443	442	17	23	19.7	17056	PASS

SV213142.D PAH2EB.M Thu Jul 20 11:40:37 2006

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\MS2_ME\ME0606\ME061406\SV213143.D Vial: 2
Acq On : 14 Jun 2006 10:30 am Operator: JLS
Sample : BPF0119-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 11:39 2006 Quant Results File: PAH2DX.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2DX.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606012
Last Update : Wed Jun 14 10:08:41 2006
Response via : Initial Calibration
DataAcq Meth : PAH2DX

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.88	152	18390	2.00	ng/uL	-0.02
3) Naphthalene-d8	5.30	136	68987	2.00	ng/uL	-0.02
8) Acenaphthene-d10	8.03	164	40215	2.00	ng/uL	-0.02
13) Phenanthrene-d10	10.89	188	52136	2.00	ng/uL	-0.02
19) Chrysene-d12	16.52	240	17330	2.00	ng/uL	-0.02
24) Perylene-d12	19.37	264	9106	2.00	ng/uL	-0.02
System Monitoring Compounds						
2) 1,2 Dichlorobenzene-d4(SUR	4.08	152	8020	1.06	ng/uL	-0.01
Spiked Amount 2.500			Recovery = 42.40%			
4) Nitrobenzene-d5 (SURR)	4.48	82	14175	1.06	ng/uL	-0.02
Spiked Amount 2.500			Recovery = 42.40%			
9) 2-Fluorobiphenyl (SURR)	6.86	172	22719	0.93	ng/uL	-0.02
Spiked Amount 2.500			Recovery = 37.20%			
14) 2,4,6-Tribromophenol (SURR	9.54	330	1833	1.00	ng/uL	-0.02
Spiked Amount 3.750			Recovery = 26.67%			
21) Terphenyl-d14 (SURR)	14.31	244	11622m	1.30	ng/uL	-0.02
Spiked Amount 2.500			Recovery = 52.00%			
Target Compounds						Qvalue
5) Naphthalene	5.32	128	37313	1.09	ng/uL#	99
6) 2-Methylnaphthalene	6.27	142	20582	0.98	ng/uL	100
7) 1-Methylnaphthalene	6.43	142	20232	0.97	ng/uL	91
10) Acenaphthylene	7.75	152	32019	0.90	ng/uL#	100
11) Acenaphthene	8.09	153	20683	0.90	ng/uL	98
12) Fluorene	9.04	166	21403	0.94	ng/uL	97
15) Pentachlorophenol	10.66	266	1191	0.80	ng/uL#	100
16) Phenanthrene	10.94	178	26555	0.86	ng/uL#	98
17) Anthracene	11.03	178	26821	0.90	ng/uL#	97
18) Fluoranthene	13.44	202	21768m	1.21	ng/uL	
20) Pyrene	13.91	202	23167	1.18	ng/uL	92
22) Benzo(a)anthracene	16.48	228	10306	0.92	ng/uL	97
23) Chrysene	16.57	228	10460	0.93	ng/uL	91
25) Benzo(b)fluoranthene	18.66	252	6549	1.05	ng/uL	93
26) Benzo(k)fluoranthene	18.70	252	6448	0.95	ng/uL#	61
27) Benzo(a)pyrene	19.26	252	5194	0.95	ng/uL	96
28) Indeno(1,2,3-cd)pyrene	21.44	276	3771	0.80	ng/uL#	98
29) Dibenzo(a,h)anthracene	21.46	278	3084	0.83	ng/uL#	95
30) Benzo(g,h,i)perylene	22.01	276	3049	0.74	ng/uL#	100

(#) = qualifier out of range (m) = manual integration

ANALYSIS SEQUENCE

BPF0121

Instrument: SVOAMS2

Calibnration ID: ~~UNASSIGNED~~ PAH20x

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0121-TUN1	QC		1		6E31075		
BPF0121-CCV1	QC		2		6E22056	6D26044	
BF61218-BLK1	QC		3			6F13054	
BF61218-BSD1	QC		4			6F13054	
0606113-17	VOC: 8270/3541 ppb PAH SI	A	5			6F13054	MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/14/06	14	SV2131 55	BFG1218-BLK1	PAH2DX	RR is failed	VL
	15	SV2 56	BFG1218-BS1			
	16	SV2 57	BFG1218-BSD1		RR is failed	
	17	SV2 58	0606113-18			
	18	SV2 59	0606078-04		4X	
	19	SV2 60	0606078-03		2X	
6/14/06	20	SV2 61	0606078-02	PAH2DX	4X	VL
6/15/06	1	SV2 62	BPFB121-TUN1	DFTPP	GFB3071	VL
	2	SV2 63	BPFB121-CLV1	PAH2DX		
	2	SV2 64	BPFB121-CLV1			
	3	SV2 65	0606113-17			
	4	SV2 66	BFG1218-BLK1			
	5	SV2 67	BFG1218-BSD1			
	6	SV2 68	0606113-02		4X	
	7	SV2 69	0606113-06		4X	
	8	SV2 70	0606113-07	PAH2DX	4X	
	1	SV2 71	BPFB124-TUN1	DFTPP	GFB3071	
	2	SV2 72	BPFB124-CCV1	SV2KG	GFB0644	
	3	SV2 73	0606113-16	PAH2DX		
	4	SV2 74	BFG1501-BLK1	SV2KG		
	5	SV2 75	BFG1501-BS1			
	6	SV2 76	BFG1501-BSD1			
	7	SV2 77	0606223-01			
	8	SV2 78	BFG1326-BLK1			
	9	SV2 79	BFG1326-BS1			
	10	SV2 80	BFG1326-BSD1			
	11	SV2 81	0606143-02			
	12	SV2 82	0606178-01			VL
6/15/06	13	SV2131 83	0606113-16	SV2KG		VL

Control Number 60.0019-0601A

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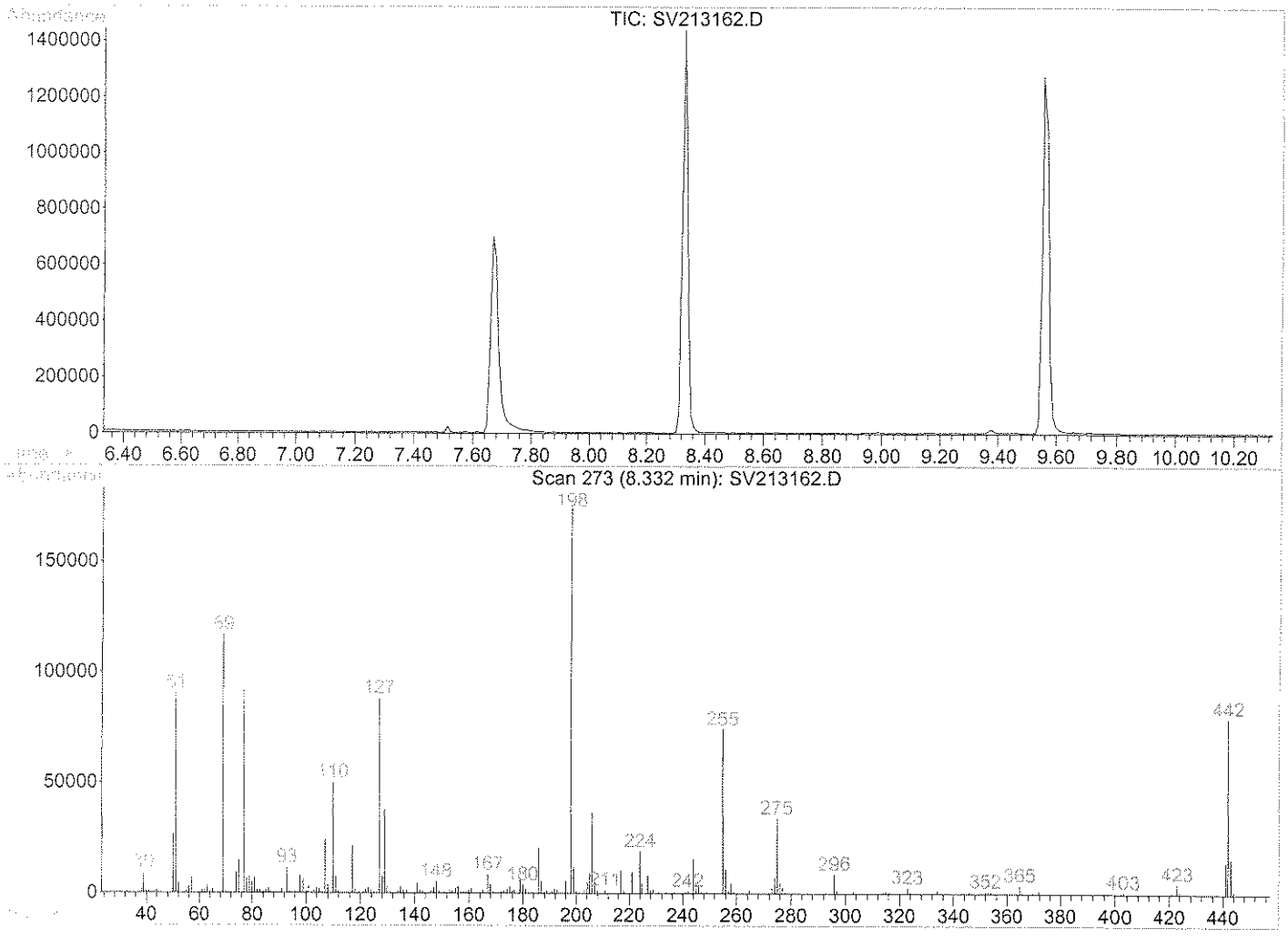
ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/15/06	14	SV2 121 84	0606113-09	SV2K6		LSC
"	15	SV2 85	" -10	"		"
"	16	SV2 86	" -11	"		"
"	17	SV2 87	" -14	"		"
6/16/06	18	SV2 88	0606113-05	SV2K6		"
6/16/06	1	SV2 89	BPF0132-Tun	DFTPP	6F1307-1	LSC
	2	SV2 90	BPF0132-CLV1	SV2K6	6F16053	
	3	SV2 91	0606170-01			
	4	SV2 92	BF61424-BLK1		SDG: BPF0134	
	5	SV2 93	BF61424-BS1			
	6	SV2 94	BF61424-BSD1			
	7	SV2 95	0606167-01			
	8	SV2 96	~~BF61610~~ BF61424-MS1			
	9	SV2 97	BF61424-MSD1			
	10	SV2 98	BF61530-BLK1			
	11	SV2 131 99	BF61530-BS1			
	12	SV2 132 00	BF61530-BSD1			
	13	SV2 01	0606233-01			
	14	SV2 02	" -02			
	15	SV2 03	" -04 ~~-05~~ 6/16/06			
	16	SV2 04	0606233-03			
	17	SV2 05	BF61530-MS1			LSC
6/16/06	18	SV2 06	BF61530-MSD1	SV2K6		"
6/17/06	1	SV2 07	BPF0139-Tun1	DFTPP	BPF0134-Tun	LSC
	2	SV2 08	BPF0139-CLV1	SV2K6		
	3	SV2 09	BF61423-BLK1			
	4	SV2 10	BF61423-BS1			
	5	SV2 11	BF61423-BSD1			
6/17/06	6	SV2 12	0606200-01	SV2K6		LSC

DFTPP

Data File : Q:\SVOA\MS2_ME\ME0606\ME061506\SV213162.D Vial: 1
Acq On : 15 Jun 2006 10:48 am Operator: VSC
Sample : BPF0121-TUN1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\PAH2EB.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0607020



Spectrum Information: Scan 273

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	51.8	90176	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	67.1	116832	PASS
70	69	0.00	2	0.5	563	PASS
127	198	40	60	50.5	87976	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	174208	PASS
199	198	5	9	6.8	11874	PASS
275	198	10	30	19.5	33936	PASS
365	198	1	100	2.1	3583	PASS
441	443	0.01	100	90.1	14081	PASS
442	198	40	100	45.6	79352	PASS
443	442	17	23	19.7	15630	PASS

SV213162.D PAH2EB.M Thu Jul 20 11:41:53 2006

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\MS2_ME\ME0606\ME061506\SV213164.D Vial: 2
Acq On : 15 Jun 2006 12:11 pm Operator: VSC
Sample : BPF0121-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 15 12:36 2006 Quant Results File: PAH2DX.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2DX.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606012
Last Update : Wed Jun 14 10:08:41 2006
Response via : Initial Calibration
DataAcq Meth : PAH2DX

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.87	152	15701	2.00	ng/uL	-0.03
3) Naphthalene-d8	5.27	136	59674	2.00	ng/uL	-0.05
8) Acenaphthene-d10	7.99	164	31999	2.00	ng/uL	-0.06
13) Phenanthrene-d10	10.84	188	29805	2.00	ng/uL	-0.07
19) Chrysene-d12	16.46	240	10958	2.00	ng/uL	-0.08
24) Perylene-d12	19.29	264	9945	2.00	ng/uL	-0.10
System Monitoring Compounds						
2) 1,2 Dichlorobenzene-d4(SUR	4.06	152	7423m	1.15	ng/uL	-0.03
Spiked Amount 2.500			Recovery = 46.00%			
4) Nitrobenzene-d5 (SURR)	4.45	82	13595	1.17	ng/uL	-0.04
Spiked Amount 2.500			Recovery = 46.80%			
9) 2-Fluorobiphenyl (SURR)	6.83	172	18514	0.95	ng/uL	-0.05
Spiked Amount 2.500			Recovery = 38.00%			
14) 2,4,6-Tribromophenol (SURR	9.49	330	1355m	1.30	ng/uL	-0.07
Spiked Amount 3.750			Recovery = 34.67%			
21) Terphenyl-d14 (SURR)	14.25	244	5412	0.96	ng/uL	-0.08
Spiked Amount 2.500			Recovery = 38.40%			
Target Compounds						Qvalue
5) Naphthalene	5.30	128	27421	0.92	ng/uL#	97
6) 2-Methylnaphthalene	6.24	142	16810	0.92	ng/uL	96
7) 1-Methylnaphthalene	6.40	142	16962	0.94	ng/uL	93
10) Acenaphthylene	7.71	152	25604	0.90	ng/uL#	99
11) Acenaphthene	8.04	153	16225	0.89	ng/uL	98
12) Fluorene	8.99	166	16191	0.89	ng/uL	97
15) Pentachlorophenol	10.61	266	769	0.88	ng/uL#	100
16) Phenanthrene	10.89	178	16025	0.91	ng/uL#	99
17) Anthracene	10.98	178	14623	0.86	ng/uL#	96
18) Fluoranthene	13.39	202	10421	1.01	ng/uL	91
20) Pyrene	13.85	202	10977	0.89	ng/uL	94
22) Benzo(a)anthracene	16.42	228	6286	0.89	ng/uL	97
23) Chrysene	16.50	228	6665	0.94	ng/uL	91
25) Benzo(b)fluoranthene	18.59	252	5730	0.84	ng/uL	94
26) Benzo(k)fluoranthene	18.63	252	6510	0.88	ng/uL#	90
27) Benzo(a)pyrene	19.19	252	5356	0.90	ng/uL	96
28) Indeno(1,2,3-cd)pyrene	21.35	276	3753	0.73	ng/uL#	100
29) Dibenzo(a,h)anthracene	21.37	278	3044	0.76	ng/uL#	99
30) Benzo(g,h,i)perylene	21.90	276	3156m	0.70	ng/uL	

(#) = qualifier out of range (m) = manual integration

Semi-Volatile Organics Logbooks

ESS Organic Preparation Logbook

Project #: 0606013
Prep Date: 6/12/06
Batch ID: SXBF61201
Extraction Method: 3541

Surrogate ID#
A 06F08077
B ~~NA~~ 06E03016
C ~~NA~~ NA EW 6/12/06

Matrix Spike ID#
D 06F07094
E NA
F

Analytical Matrix: Soil
Extraction Time:
Start: 8:00
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
SXBF61201-B	20.0	1 A	NA	/	/	NA	6/12/06	40	NA	NA		[initials]	[initials]	JCS
-B1	20.0	1 A	/	/	/									
-B/D	20.0	1 A	/	/	/									
LLXBF61201-B1	20.0	1 B	0.025	/	/									
-B/D	20.0	1 B	0.025	/	/									
0606013-01	19.1	1 A	NA	/	/									
-02	20.2	1 A		/	/									
-03	21.0	1 A		/	/									
-04	19.9	1 A		/	/									
-05	19.7	1 A		/	/									
-06	19.6	1 A		/	/									
-07	19.9	1 A		/	/									
-08	20.4	1 A		/	/									
-09	20.1	1 A		/	/									
-10	20.0	1 A		/	/									
-11	21.0	1 A		/	/									
-12	19.8	1 A		/	/									
-13	20.4	1 A		/	/									
-14	20.6	1 A		/	/									
-15	21.0	1 A		/	/									
-16	20.2	1 A		/	/									
-17	21.0	1 A	NA	/	/									
-17MS	19.2	1 A	/	/	/									
-17MSD	19.9	1 A	/	/	/	NA	6/12/06	40	NA	NA		[initials]	[initials]	JCS

Analysis Performed:
- PCB ☐
- B/N SVOA ☐
- SVOA ☒
- LL PAH ☐
- PEST ☐
- TPH/GC ☐
- BIS-2 ☐
- PAH ☐

Acid Washed: Y / N (N circled) H2SO4 ID# NA
Cu Cleaned: Y / N (N circled) Cu ID# NA
Florisiled: Y / N (N circled) Lot# NA
Silica Column/Carbon prep: Y / N (N circled) Lot # NA

CH_2Cl_2 lot # CQ479
NaOH ID# NA
Hexane lot# NA
Na_2SO_4 ID# RCF0522206B
Acetone lot# NA

Prepared By: [signature] Glasswool: RED060206B Method #(s): 8270

**Check off column if entire sample used and bottle discarded.

BATCH ID/Test:

Page

Semi-Volatile Organics Data Package

(Ag)

Semi-Volatile Organics
Sample Data

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: RB-1
Date Sampled: 06/08/06 10:41
Percent Solids: N/A
Initial Volume: 1000
Final Volume: 1
Extraction Method: 3510C

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-18
Sample Matrix: Aqueous
Analyst: VSC
Prepared: 06/12/06

8270C(SIM) Polynuclear Aromatic Hydrocarbons

Analyte	Results	Units	MRL	DF	Analyzed
2-Methylnaphthalene	ND	ug/L	0.20	1	06/14/06
Acenaphthene	ND	ug/L	0.20	1	06/14/06
Acenaphthylene	ND	ug/L	0.20	1	06/14/06
Anthracene	ND	ug/L	0.20	1	06/14/06
Benzo(a)anthracene	ND	ug/L	0.20	1	06/14/06
Benzo(a)pyrene	ND	ug/L	0.20	1	06/14/06
Benzo(b)fluoranthene	ND	ug/L	0.20	1	06/14/06
Benzo(g,h,i)perylene	ND	ug/L	0.20	1	06/14/06
Benzo(k)fluoranthene	ND	ug/L	0.30	1	06/14/06
Chrysene	ND	ug/L	0.20	1	06/14/06
Dibenzo(a,h)Anthracene	ND	ug/L	0.20	1	06/14/06
Fluoranthene	ND	ug/L	0.20	1	06/14/06
Fluorene	ND	ug/L	0.20	1	06/14/06
Indeno(1,2,3-cd)Pyrene	ND	ug/L	0.30	1	06/14/06
Naphthalene	ND	ug/L	0.20	1	06/14/06
Phenanthrene	ND	ug/L	0.20	1	06/14/06
Pyrene	ND	ug/L	0.20	1	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: 1,2-Dichlorobenzene-d4	*84 %*		*30-130*
Surrogate: 2-Fluorobiphenyl	*88 %*		*30-130*
Surrogate: Nitrobenzene-d5	*76 %*		*30-130*
Surrogate: p-Terphenyl-d14	*125 %*		*30-130*

Semi-Volatile Organics Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Polynuclear Aromatic Hydrocarbons										
Batch BF61201 - 3541										
Pyrene	5800	565	ug/Kg dry	5650	ND	103	40-140	18	30	
Surrogate: 1,2-Dichlorobenzene-d4	*3890*		ug/Kg dry	*5650*		*69*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*4210*		ug/Kg dry	*5650*		*75*	*30-130*			
Surrogate: Nitrobenzene-d5	*3750*		ug/Kg dry	*5650*		*66*	*30-130*			
Surrogate: p-Terphenyl-d14	*5930*		ug/Kg dry	*5650*		*105*	*30-130*			
8270C(SIM) Polynuclear Aromatic Hydrocarbons										
Batch BF61218 - 3510C										
Blank										
2-Methylnaphthalene	ND	0.20	ug/L							
Acenaphthene	ND	0.20	ug/L							
Acenaphthylene	ND	0.20	ug/L							
Anthracene	ND	0.20	ug/L							
Benzo(a)anthracene	ND	0.20	ug/L							
Benzo(a)pyrene	ND	0.20	ug/L							
Benzo(b)fluoranthene	ND	0.20	ug/L							
Benzo(g,h,i)perylene	ND	0.20	ug/L							
Benzo(k)fluoranthene	ND	0.30	ug/L							
Chrysene	ND	0.20	ug/L							
Dibenzo(a,h)Anthracene	ND	0.20	ug/L							
Fluoranthene	ND	0.20	ug/L							
Fluorene	ND	0.20	ug/L							
Indeno(1,2,3-cd)Pyrene	ND	0.30	ug/L							
Naphthalene	ND	0.20	ug/L							
Phenanthrene	ND	0.20	ug/L							
Pyrene	ND	0.20	ug/L							
Surrogate: 1,2-Dichlorobenzene-d4	*2.48*		ug/L	*2.50*		*99*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.52*		ug/L	*2.50*		*101*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.53*		ug/L	*2.50*		*101*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.75*		ug/L	*2.50*		*110*	*30-130*			
LCS										
2-Methylnaphthalene	1.87	0.20	ug/L	2.50		75	40-140			
Acenaphthene	1.98	0.20	ug/L	2.50		79	40-140			
Acenaphthylene	1.89	0.20	ug/L	2.50		76	40-140			
Anthracene	2.17	0.20	ug/L	2.50		87	40-140			
Benzo(a)anthracene	2.19	0.20	ug/L	2.50		88	40-140			
Benzo(a)pyrene	2.28	0.20	ug/L	2.50		91	40-140			
Benzo(b)fluoranthene	3.49	0.20	ug/L	2.50		140	40-140			
Benzo(g,h,i)perylene	1.07	0.20	ug/L	2.50		43	40-140			
Benzo(k)fluoranthene	3.36	0.30	ug/L	2.50		134	40-140			
Chrysene	2.19	0.20	ug/L	2.50		88	40-140			
Dibenzo(a,h)Anthracene	1.25	0.20	ug/L	2.50		50	40-140			
Fluoranthene	2.77	0.20	ug/L	2.50		111	40-140			
Fluorene	2.12	0.20	ug/L	2.50		85	40-140			
Indeno(1,2,3-cd)Pyrene	1.16	0.30	ug/L	2.50		46	40-140			
Naphthalene	1.83	0.20	ug/L	2.50		73	40-140			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C(SIM) Polynuclear Aromatic Hydrocarbons										
Batch BF61218 - 3510C										
Phenanthrene	1.97	0.20	ug/L	2.50		79	40-140			
Pyrene	2.52	0.20	ug/L	2.50		101	40-140			
Surrogate: 1,2-Dichlorobenzene-d4	*2.69*		ug/L	*2.50*		*108*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.30*		ug/L	*2.50*		*92*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.10*		ug/L	*2.50*		*84*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.83*		ug/L	*2.50*		*113*	*30-130*			
LCS Dup										
2-Methylnaphthalene	2.24	0.20	ug/L	2.50		90	40-140	18	20	
Acenaphthene	2.28	0.20	ug/L	2.50		91	40-140	14	20	
Acenaphthylene	2.22	0.20	ug/L	2.50		89	40-140	16	20	
Anthracene	2.43	0.20	ug/L	2.50		97	40-140	11	20	
Benzo(a)anthracene	2.42	0.20	ug/L	2.50		97	40-140	10	20	
Benzo(a)pyrene	2.38	0.20	ug/L	2.50		95	40-140	4	20	
Benzo(b)fluoranthene	2.19	0.20	ug/L	2.50		88	40-140	46	20	+
Benzo(g,h,i)perylene	1.55	0.20	ug/L	2.50		62	40-140	36	20	+
Benzo(k)fluoranthene	2.26	0.30	ug/L	2.50		90	40-140	39	20	+
Chrysene	2.41	0.20	ug/L	2.50		96	40-140	9	20	
Dibenzo(a,h)Anthracene	1.93	0.20	ug/L	2.50		77	40-140	43	20	+
Fluoranthene	2.58	0.20	ug/L	2.50		103	40-140	7	20	
Fluorene	2.40	0.20	ug/L	2.50		96	40-140	12	20	
Indeno(1,2,3-cd)Pyrene	1.84	0.30	ug/L	2.50		74	40-140	47	20	+
Naphthalene	2.14	0.20	ug/L	2.50		86	40-140	16	20	
Phenanthrene	2.31	0.20	ug/L	2.50		92	40-140	15	20	
Pyrene	2.25	0.20	ug/L	2.50		90	40-140	12	20	
Surrogate: 1,2-Dichlorobenzene-d4	*2.64*		ug/L	*2.50*		*106*	*30-130*			
Surrogate: 2-Fluorobiphenyl	*2.55*		ug/L	*2.50*		*102*	*30-130*			
Surrogate: Nitrobenzene-d5	*2.46*		ug/L	*2.50*		*98*	*30-130*			
Surrogate: p-Terphenyl-d14	*2.61*		ug/L	*2.50*		*104*	*30-130*			
Batch BF61535 - 3541										
Blank										
1-Methylnaphthalene	ND	25.0	ug/Kg wet							
2-Methylnaphthalene	ND	25.0	ug/Kg wet							
Acenaphthene	ND	25.0	ug/Kg wet							
Acenaphthylene	ND	25.0	ug/Kg wet							
Anthracene	ND	25.0	ug/Kg wet							
Benzo(a)anthracene	ND	25.0	ug/Kg wet							
Benzo(a)pyrene	ND	25.0	ug/Kg wet							
Benzo(b)fluoranthene	ND	25.0	ug/Kg wet							
Benzo(g,h,i)perylene	ND	25.0	ug/Kg wet							
Benzo(k)fluoranthene	ND	25.0	ug/Kg wet							
Chrysene	ND	25.0	ug/Kg wet							
Dibenzo(a,h)Anthracene	ND	25.0	ug/Kg wet							
Fluoranthene	ND	25.0	ug/Kg wet							
Fluorene	ND	25.0	ug/Kg wet							
Indeno(1,2,3-cd)Pyrene	ND	25.0	ug/Kg wet							
Naphthalene	ND	25.0	ug/Kg wet							

Semi-Volatile Organics Calibration Data

ANALYSIS SEQUENCE

BPF0076

Instrument: SVOAMS2

Calibnration ID: UNASSIGNED PAH20X

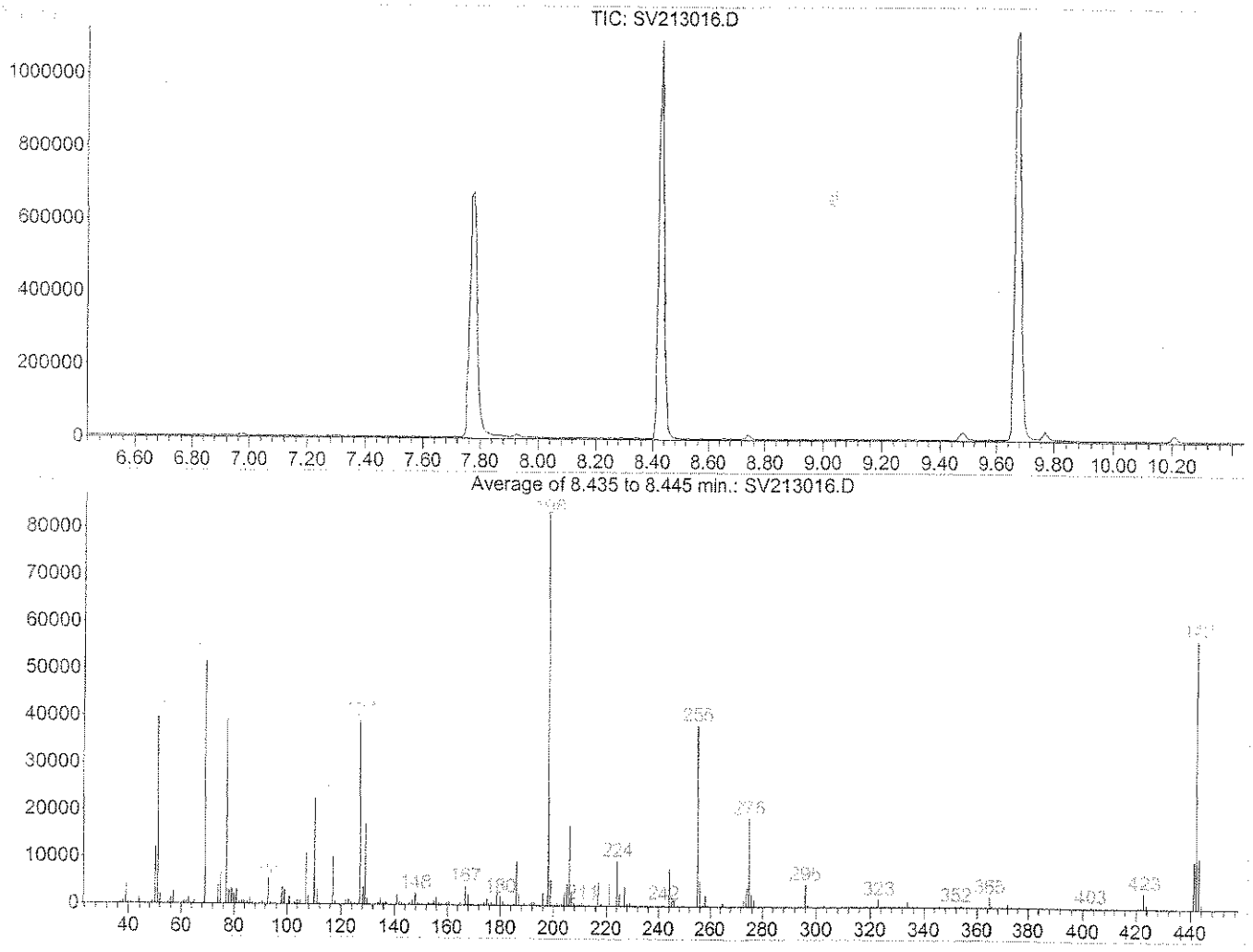
Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0076-TUN1	QC		1		6E12106		
BPF0076-CAL1	QC		2		6E03046	6D26044	
BPF0076-CAL2	QC		3		6E03047	6D26044	
BPF0076-CAL3	QC		4		6E03048	6D26044	
BPF0076-CAL4	QC		5		6E03049	6D26044	
BPF0076-CAL5	QC		6		6E03050	6D26044	
BPF0076-CAL6	QC		7		6E03051	6D26044	
BPF0076-CAL7	QC		8		6C01076	6C02047	
BPF0076-SCV1	QC		9		6E03052	6D26044	

Samples Loaded By Date

Data Processed By Date

DFTPP

Data File : Q:\SVOA\MS2_ME\ME0606\ME060806\SV213016.D Vial: 1
Acq On : 8 Jun 2006 7:39 am Operator: JLS
Sample : BPF0076-TUN1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\PAH2DX.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606012



Spectrum Information: Average of 8.435 to 8.445 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	% Result Pass/Fail
51	198	30	60	47.9	39847	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	61.9	51443	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	47.0	39031	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	83112	PASS
199	198	5	9	6.5	5385	PASS
275	198	10	30	22.4	18647	PASS
365	198	1	100	2.6	2172	PASS
441	443	0.01	100	93.3	10103	PASS
442	198	40	100	68.7	57080	PASS
443	442	17	23	19.0	10826	PASS

Response Factor Report GC/MS 2

Method : C:\HPCHEM\1\METHODS\PAH2DX.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606012
Last Update : Fri Jun 16 08:26:48 2006
Response via : Initial Calibration

Calibration Files
0.2 =SV213020.D 0.4 =SV213021.D 1.0 =SV213022.D
2.0 =SV213023.D 5.0 =SV213024.D 8.0 =SV213025.D

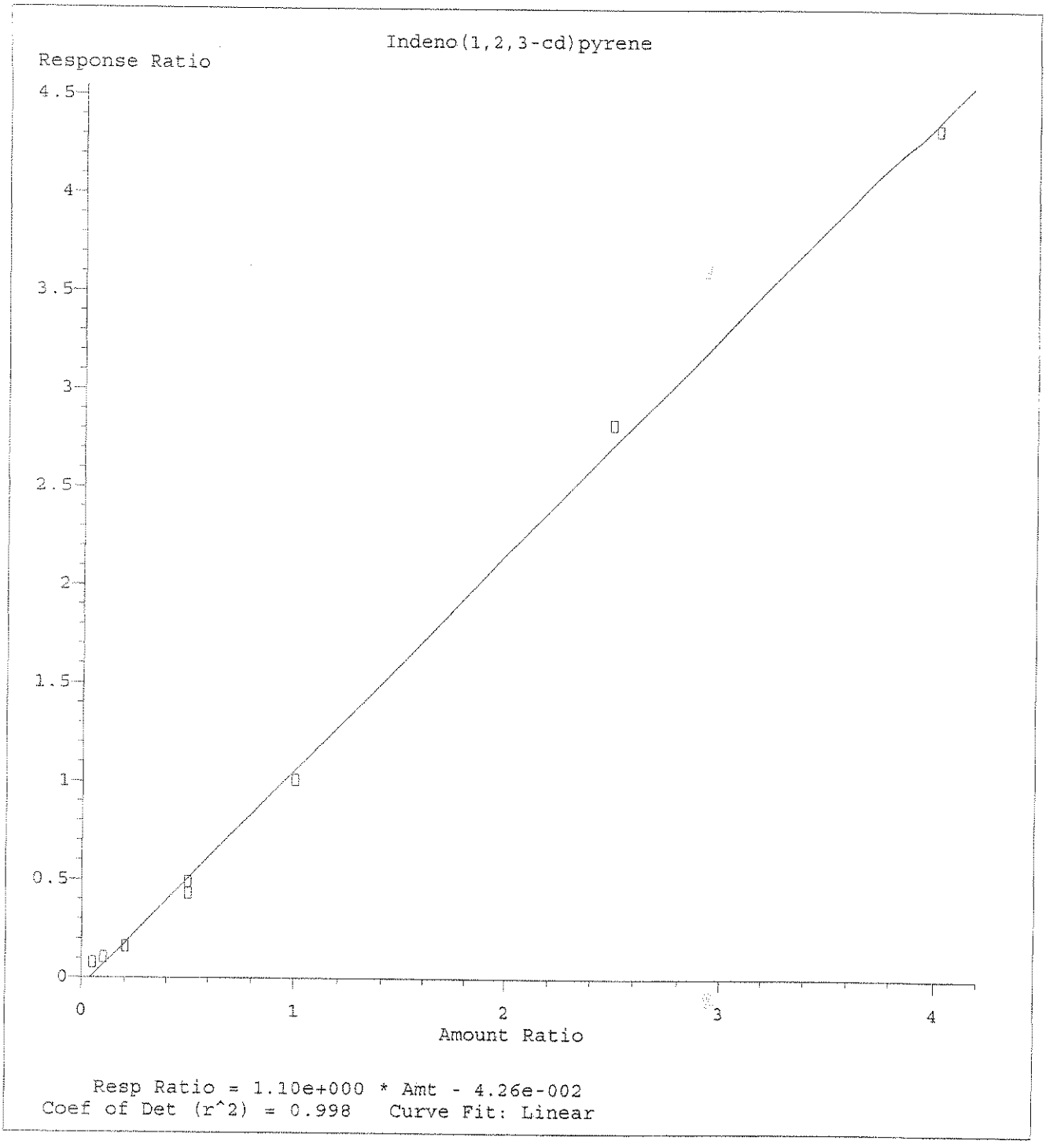
		Compound	0.2	0.4	1.0	2.0	5.0	8.0	Avg	%RSD
1)	I	1,4-Dichlorobenzene-d	----------ISTD----------							
2)	S	1,2 Dichlorobenzene	0.856	0.764	0.799	0.792	0.818	0.787	0.823	7.40
3)		Naphthalene-d8	----------ISTD----------							
4)	S	Nitrobenzene-d5 (SU	0.395	0.388	0.374	0.369	0.380	0.372	0.389	7.11
5)		Naphthalene	1.077	0.957	0.921	0.927	0.941	0.901	0.995	12.45
6)		2-Methylnaphthalene	0.634	0.582	0.566	0.569	0.582	0.585	0.610	10.84
7)		1-Methylnaphthalene	0.631	0.581	0.561	0.565	0.578	0.576	0.604	10.34
8)		Acenaphthene-d10	----------ISTD----------							
9)	S	2-Fluorobiphenyl (S	1.283	1.174	1.116	1.146	1.164	1.154	1.220	11.05
10)		Acenaphthylene	1.850	1.668	1.635	1.701	1.735	1.727	1.778	9.53
11)	C	Acenaphthene	1.211	1.079	1.047	1.075	1.092	1.072	1.139	11.04#
12)		Fluorene	1.209	1.091	1.072	0.997	1.129	1.064	1.133	10.79
13)		Phenanthrene-d10	----------ISTD----------							
14)	S	2,4,6-Tribromopheno	0.064	0.058	0.075	0.070	0.072	0.076	0.070	10.00
15)	C	Pentachlorophenol	0.041	0.041	0.052	0.059	0.075	0.078	0.055	29.29#
16)		Phenanthrene	1.260	1.124	1.116	1.114	1.116	1.095	1.188	12.22
17)		Anthracene	1.183	1.054	1.063	1.086	1.109	1.095	1.137	9.73
18)	C	Fluoranthene	0.671	0.552	0.732	0.664	0.594	0.719	0.690	16.16#
19)		Chrysene-d12	----------ISTD----------							
20)		Pyrene	2.419	2.278	2.162	2.130	2.168	1.918	2.264	11.93
21)	S	Terphenyl-d14 (SURR	1.093	1.020	1.001	0.963	0.969	0.874	1.028	12.46
22)		Benzo(a)anthracene	1.349	1.200	1.180	1.196	1.254	1.256	1.296	12.35
23)		Chrysene	1.362	1.219	1.196	1.188	1.209	1.182	1.293	14.48
24)		Perylene-d12	----------ISTD----------							
25)		Benzo(b)fluoranthen	1.405	1.292	1.243	1.294	1.338	1.344	1.370	10.41
26)		Benzo(k)fluoranthen	1.531	1.290	1.312	1.412	1.531	1.595	1.483	10.34
27)	C	Benzo(a)pyrene	1.198	1.075	1.083	1.107	1.210	1.209	1.198	12.23#
28)		Indeno(1,2,3-cd)pyr	1.043	0.805	0.982	1.010	1.129	1.082	1.085	20.96
29)		Dibenzo(a,h)anthrac	0.795	0.592	0.772	0.800	0.912	0.881	0.842	19.91
30)		Benzo(g,h,i)perylen	0.961	0.729	0.865	0.857	0.929	0.862	0.962	27.19

Ave RF

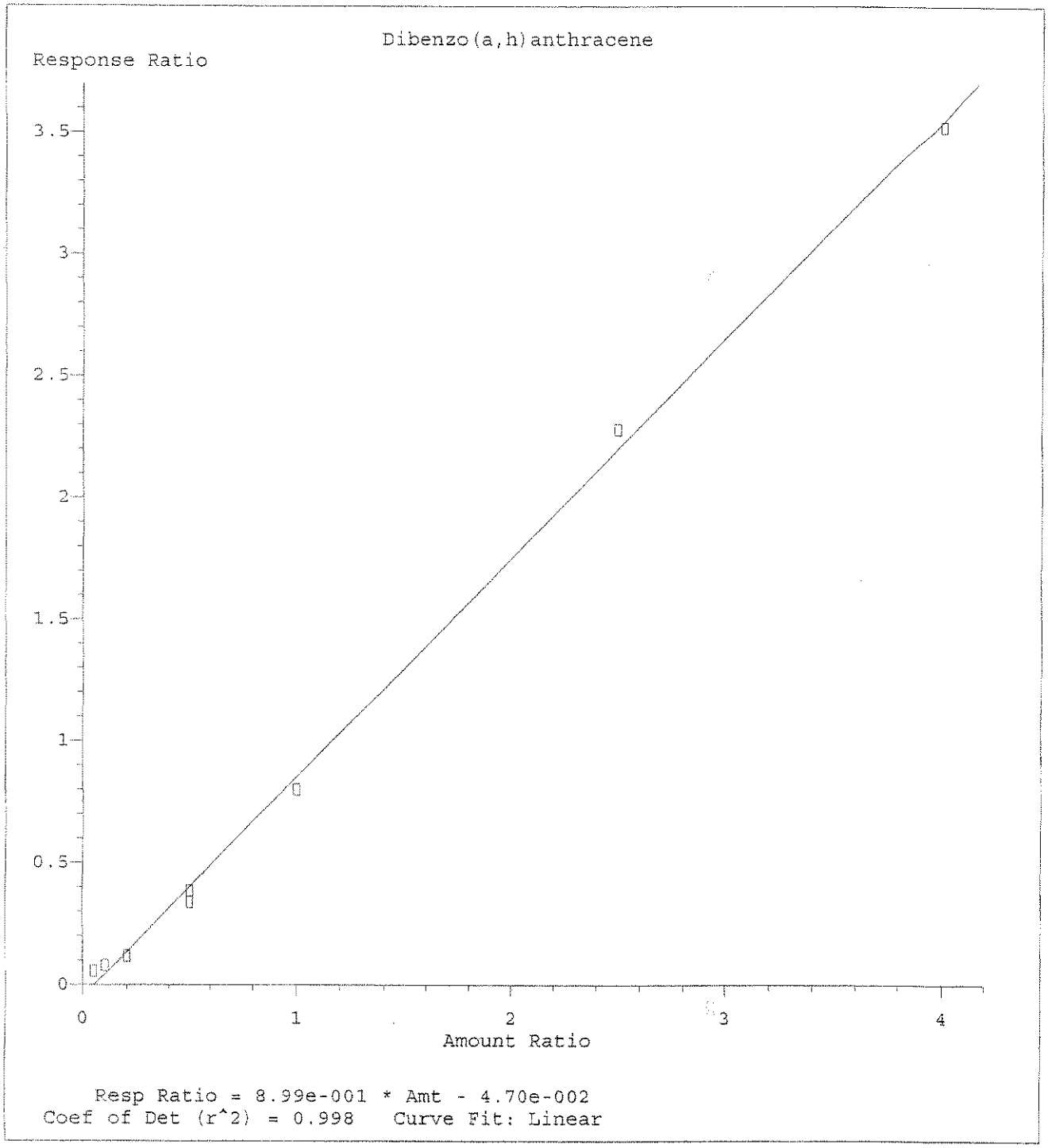
Linear Curve.

Linear Curve

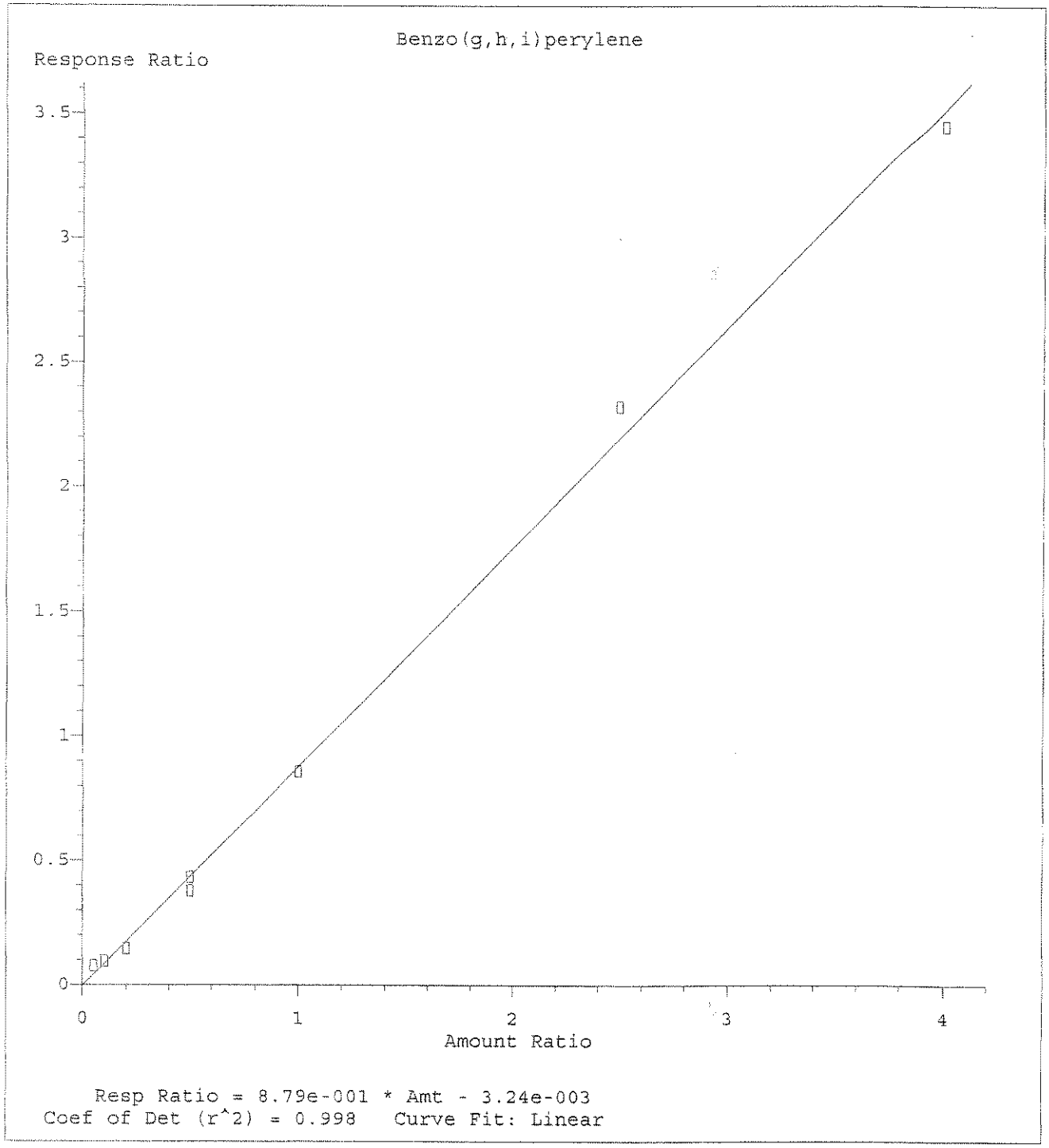
(#) = Out of Range ### Number of calibration levels exceeded format ###



Method Name: C:\HPCHEM\1\METHODS\PAH2DX.M
Calibration Table Last Updated: Fri Jun 16 08:26:48 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DX.M
Calibration Table Last Updated: Fri Jun 16 08:26:48 2006



Method Name: C:\HPCHEM\1\METHODS\PAH2DX.M
Calibration Table Last Updated: Fri Jun 16 08:26:48 2006

ANALYSIS SEQUENCE

BPF0119

Instrument: SVOAMS2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0119-TUN1	QC		1		6E31075		
BPF0119-CCV1	QC		2		6E03048	6D26044	
0606113-18	SVOC: 8270 ppb PAH SIM	A	3			6D26044	MACTEC Engineering & Consulting, In
BF61218-BS1	QC		4			6D26044	
0606113-02	/OC: 8270/3541 ppb PAH SI	A	5			6D26044	MACTEC Engineering & Consulting, In
0606113-06	/OC: 8270/3541 ppb PAH SI	A	6			6D26044	MACTEC Engineering & Consulting, In
0606113-07	/OC: 8270/3541 ppb PAH SI	A	7			6D26044	MACTEC Engineering & Consulting, In
0606113-08	/OC: 8270/3541 ppb PAH SI	A	8			6D26044	MACTEC Engineering & Consulting, In
0606113-12	/OC: 8270/3541 ppb PAH SI	A	9			6D26044	MACTEC Engineering & Consulting, In
0606113-13	/OC: 8270/3541 ppb PAH SI	A	10			6D26044	MACTEC Engineering & Consulting, In
0606113-15	/OC: 8270/3541 ppb PAH SI	A	11			6D26044	MACTEC Engineering & Consulting, In
BF61535-BLK1	QC		12			6D26044	
BF61535-BS1	QC		13			6D26044	
BF61535-BSD1	QC		14			6D26044	

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/13/06	7	SV2 13126	BF60724-BS1	PAH2DX		VX
	8	SV2 27	BF60724-BSD1			
	9	SV2 28	0606078-07			
	10	SV2 29	-15			
	11	SV2 30	-14			
	12	SV2 31	-09		RR ~~8x~~ 4x	
	13	SV2 32	-03		RR 2x	
	14	SV2 33	-02		RR 8x	
	15	SV2 34	-05		~~RR 5x~~ ~~RR 10x~~	
	16	SV2 35	-01		RR 4x 8270	
	17	SV2 36	-01MS			
	18	SV2 37	-01MSD			
	19	SV2 38	-06			
	20	SV2 39	-10		not needed	
	21	SV2 40	-11			
6/13/06	22	SV2 41	0606078-16	PAH2DX		VX
6/14/06	1	SV2 42	~~BF00~~ BPF0119-Tune	DFTPP		BC
	2	SV2 43	BPF0119-CCV1	PAH2DX		
	3	SV2 44	BF61201-BLK1		~~AF~~	
	4	SV2 45	BF61201-BS1			
	5	SV2 46	BF61201-BSD1			
	6	SV2 47	0606113-02		RR 4X	
	7	SV2 48	-06		RR 8x	
	8	SV2 49	-07		RR 4X	
	9	SV2 50	-15			
	10	SV2 51	-17		RR 2x	
	11	SV2 52	-08			
	12	SV2 53	-12			
6/14/06	13	SV2 131 54	0606113-13	PAH2DX		LB

Control Number 60.0019-0601A

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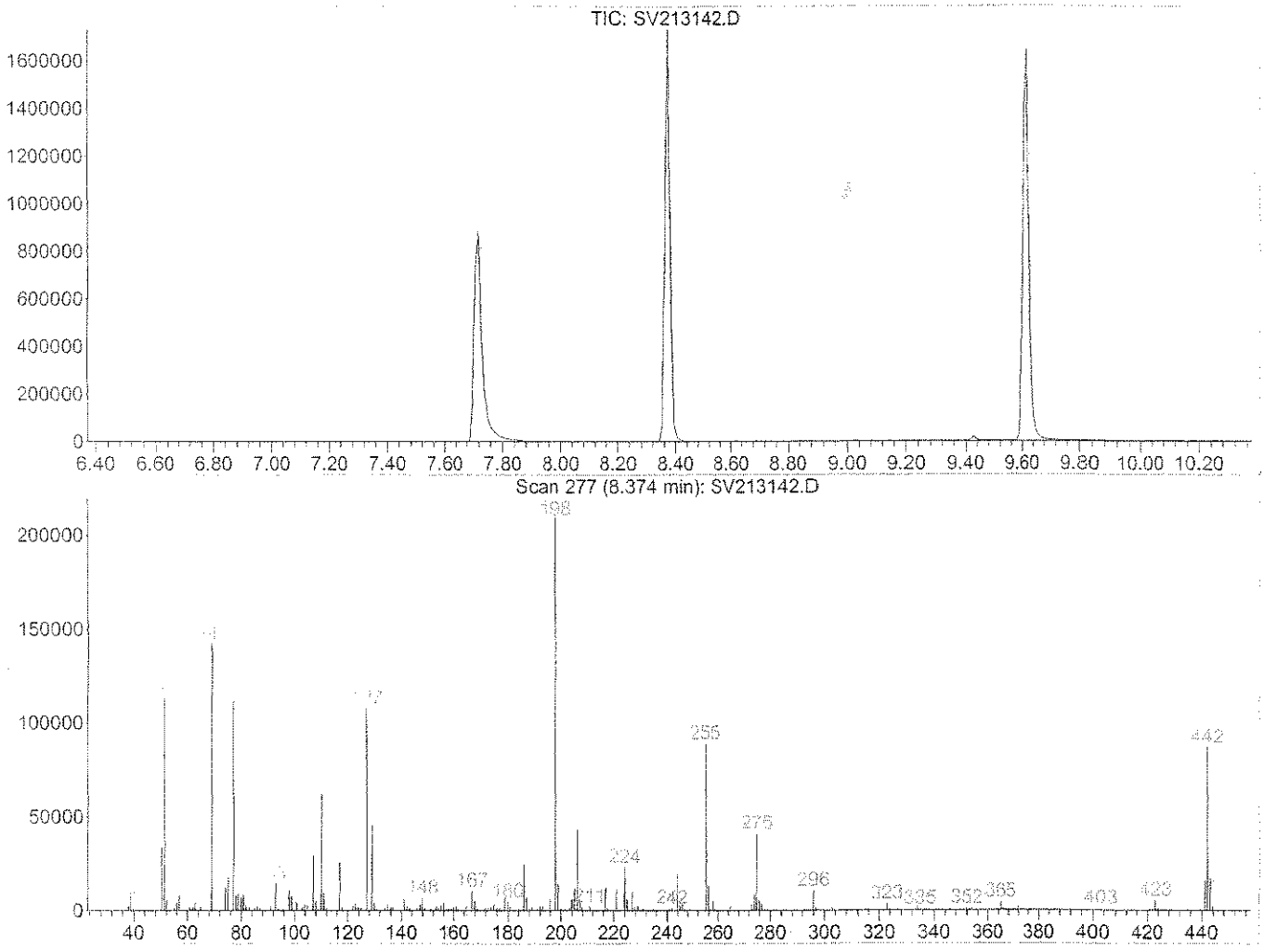
ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/14/06	14	SV2	55 BF61218-BLK1	PAH2DX	RR is failed	VL
	15	SV2	56 BF61218-BS1			
	16	SV2	57 BF61218-BSD1		RR is failed	
	17	SV2	58 0606113-18			
	18	SV2	59 0606078-04		4X	
	19	SV2	60 0606078-03		2X	
6/14/06	20	SV2	61 0606078-02	PAH2DX	4X	VL
6/15/06	1	SV2	62 BPF0121-TUN1	DFTPP	6F13071	VL
	2	SV2	63 BPF0121-CCV1	PAH2DX		
	2	SV2	64 BPF0121-CCV1			
	3	SV2	65 0606113-17			
	4	SV2	66 BF61218-BLK1			
	5	SV2	67 BF61218-BSD1			
	6	SV2	68 0606113-02		4X	
	7	SV2	69 0606113-06		4X	
	8	SV2	70 0606113-07	PAH2DX	4X	
	1	SV2	71 BPF0124-TUN1	DFTPP	6F13071	
	2	SV2	72 BPF0124-CCV1	SV2KG-	6F06044	
	3	SV2	73 0606113-05	PAH2DX		
	4	SV2	74 BF61501-BLK1	SV2KG		
	5	SV2	75 BF61501-BS1			
	6	SV2	76 BF61501-BSD1			
	7	SV2	77 0606223-01			
	8	SV2	78 BF61326-BLK1			
	9	SV2	79 BF61326-BS1			
	10	SV2	80 BF61326-BSD1			
	11	SV2	81 0606143-02			
	12	SV2	82 0606170-01			
6/15/06	13	SV2	83 0606113-16	SV2KG		VL

Data File : Q:\SVOA\MS2_ME\ME0606\ME061406\SV213142.D Vial: 1
Acq On : 14 Jun 2006 10:10 am Operator: JLS
Sample : BPF0119-TUN1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\PAH2EB.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0607020



Spectrum Information: Scan 277

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	53.9	113160	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	67.8	142272	PASS
70	69	0.00	2	0.0	0	PASS
127	198	40	60	51.2	107472	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	209792	PASS
199	198	5	9	6.7	14053	PASS
275	198	10	30	19.5	40960	PASS
365	198	1	100	2.0	4121	PASS
441	443	0.01	100	93.0	15856	PASS
442	198	40	100	41.4	86752	PASS
443	442	17	23	19.7	17056	PASS

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\MS2_ME\ME0606\ME061406\SV213143.D Vial: 2
Acq On : 14 Jun 2006 10:30 am Operator: JLS
Sample : BPF0119-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 14 11:39 2006 Quant Results File: PAH2DX.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2DX.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606012
Last Update : Wed Jun 14 10:08:41 2006
Response via : Initial Calibration
DataAcq Meth : PAH2DX

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.88	152	18390	2.00	ng/uL	-0.02
3) Naphthalene-d8	5.30	136	68987	2.00	ng/uL	-0.02
8) Acenaphthene-d10	8.03	164	40215	2.00	ng/uL	-0.02
13) Phenanthrene-d10	10.89	188	52136	2.00	ng/uL	-0.02
19) Chrysene-d12	16.52	240	17330	2.00	ng/uL	-0.02
24) Perylene-d12	19.37	264	9106	2.00	ng/uL	-0.02
System Monitoring Compounds						
2) 1,2 Dichlorobenzene-d4(SUR	4.08	152	8020	1.06	ng/uL	-0.01
Spiked Amount 2.500			Recovery = 42.40%			
4) Nitrobenzene-d5 (SURR)	4.48	82	14175	1.06	ng/uL	-0.02
Spiked Amount 2.500			Recovery = 42.40%			
9) 2-Fluorobiphenyl (SURR)	6.86	172	22719	0.93	ng/uL	-0.02
Spiked Amount 2.500			Recovery = 37.20%			
14) 2,4,6-Tribromophenol (SURR	9.54	330	1833	1.00	ng/uL	-0.02
Spiked Amount 3.750			Recovery = 26.67%			
21) Terphenyl-d14 (SURR)	14.31	244	11622m	1.30	ng/uL	-0.02
Spiked Amount 2.500			Recovery = 52.00%			
Target Compounds						Qvalue
5) Naphthalene	5.32	128	37313	1.09	ng/uL#	99
6) 2-Methylnaphthalene	6.27	142	20582	0.98	ng/uL	100
7) 1-Methylnaphthalene	6.43	142	20232	0.97	ng/uL	91
10) Acenaphthylene	7.75	152	32019	0.90	ng/uL#	100
11) Acenaphthene	8.09	153	20683	0.90	ng/uL	98
12) Fluorene	9.04	166	21403	0.94	ng/uL	97
15) Pentachlorophenol	10.66	266	1191	0.80	ng/uL#	100
16) Phenanthrene	10.94	178	26555	0.86	ng/uL#	98
17) Anthracene	11.03	178	26821	0.90	ng/uL#	97
18) Fluoranthene	13.44	202	21768m	1.21	ng/uL	
20) Pyrene	13.91	202	23167	1.18	ng/uL	92
22) Benzo(a)anthracene	16.48	228	10306	0.92	ng/uL	97
23) Chrysene	16.57	228	10460	0.93	ng/uL	91
25) Benzo(b)fluoranthene	18.66	252	6549	1.05	ng/uL	93
26) Benzo(k)fluoranthene	18.70	252	6448	0.95	ng/uL#	61
27) Benzo(a)pyrene	19.26	252	5194	0.95	ng/uL	96
28) Indeno(1,2,3-cd)pyrene	21.44	276	3771	0.80	ng/uL#	98
29) Dibenzo(a,h)anthracene	21.46	278	3084	0.83	ng/uL#	95
30) Benzo(g,h,i)perylene	22.01	276	3049	0.74	ng/uL#	100

(#) = qualifier out of range (m) = manual integration

ANALYSIS SEQUENCE

BPF0121

Instrument: SVOAMS2

Calibnration ID: UNASSIGNED

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPF0121-TUN1	QC		1		6E31075		
BPF0121-CCV1	QC		2		6E22056	6D26044	
BF61218-BLK1	QC		3			6F13054	
BF61218-BSD1	QC		4			6F13054	
0606113-17	VOC: 8270/3541 ppb PAH SI	A	5			6F13054	MACTEC Engineering & Consulting, In

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/14/06	14	SV2131 55	BFG1218-BLK1	PAH2DX	RR 25 spiked	VL
	15	SV2 56	BFG1218-BS1			
	16	SV2 57	BFG1218-BSD1		RR 75 spiked	
	17	SV2 58	0606113-18			
	18	SV2 59	0606078-04		4x	
	19	SV2 60	0606078-03		2x	
6/14/06	20	SV2 61	0606078-02	PAH2DX	4x	VL
6/15/06	1	SV2 62	BPFB121-TUN1	DFTPP	GFI3071	VL
	2	SV2 63	BPFB121-CLV1	PAH2DX		
	2	SV2 64	BPFB121-CLV1			
	3	SV2 65	0606113-17			
	4	SV2 66	BFG1218-BLK1			
	5	SV2 67	BFG1218-BSD1			
	6	SV2 68	0606113-02		4x	
	7	SV2 69	0606113-06		4x	
	8	SV2 70	0606113-07	PAH2DX	4x	
	1	SV2 71	BPFB124-TUN1	DFTPP	GFI3071	
	2	SV2 72	BPFB124-CLV1	SV2KG-	GFB0644	
	3	SV2 73	0606113-05	PAH2DX		
	4	SV2 74	BFG1501-BLK1	SV2KG-		
	5	SV2 75	BFG1501-BS1			
	6	SV2 76	BFG1501-BSD1			
	7	SV2 77	0606223-01			
	8	SV2 78	BFG1326-BLK1			
	9	SV2 79	BFG1326-BS1			
	10	SV2 80	BFG1326-BSD1			
	11	SV2 81	0606143-02			
	12	SV2 82	0606170-01			
6/15/06	13	SV2131 83	0606113-16	SV2KG		VL

Control Number 60.0019-0601A

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ESS LABORATORY
GCMS2 RUN LOG

COLUMN DB5MS

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/15/06	14	SV2 121 84	0606113-09	SV2KG		USC
"	15	SV2 85	" -10	"		"
"	16	SV2 86	" -11	"		"
"	17	SV2 87	" -14	"		"
6/13/06	18	SV2 88	0606113-05	SV2KG		USC
6/16/06	1	SV2 89	BPF0132-TUN	DFTPP	6F13071	USC
	2	SV2 90	BPF0132-CCV1	SV2KG	6F16053	
	3	SV2 91	0606170-01			
	4	SV2 92	BF61424-BLK1		SDG: BPF0139	
	5	SV2 93	BF61424-BS1			
	6	SV2 94	BF61424-BSD1			
	7	SV2 95	0606117-01			
	8	SV2 96	~~BF61424~~ BF61424-MS1			
	9	SV2 97	BF61424-MSD1			
	10	SV2 98	BF61530-BLK1			
	11	SV2 131 99	BF61530-BS1			
	12	SV2 132 00	BF61530-BSD1			
	13	SV2 01	0606233-01			
	14	SV2 02	" -02			
	15	SV2 03	" -04 ~~04~~ USC 6/16/06			
	16	SV2 04	0606233-03			
	17	SV2 05	BF61530-MS1			USC
6/16/06	18	SV2 06	BF61530-MSD1	SV2KG		USC
6/17/06	1	SV2 07	BPF0139-TUN1	DFTPP	BPF0174 RA-TUN	USC
	2	SV2 08	BPF0139-CCV1	SV2KG		
	3	SV2 09	BF61423-BLK1			
	4	SV2 10	BF61423-BS1			
	5	SV2 11	BF61423-BSD1			
6/17/06	6	SV2 12	0606200-01	SV2KG		USC

Control Number 60.0019-0601A

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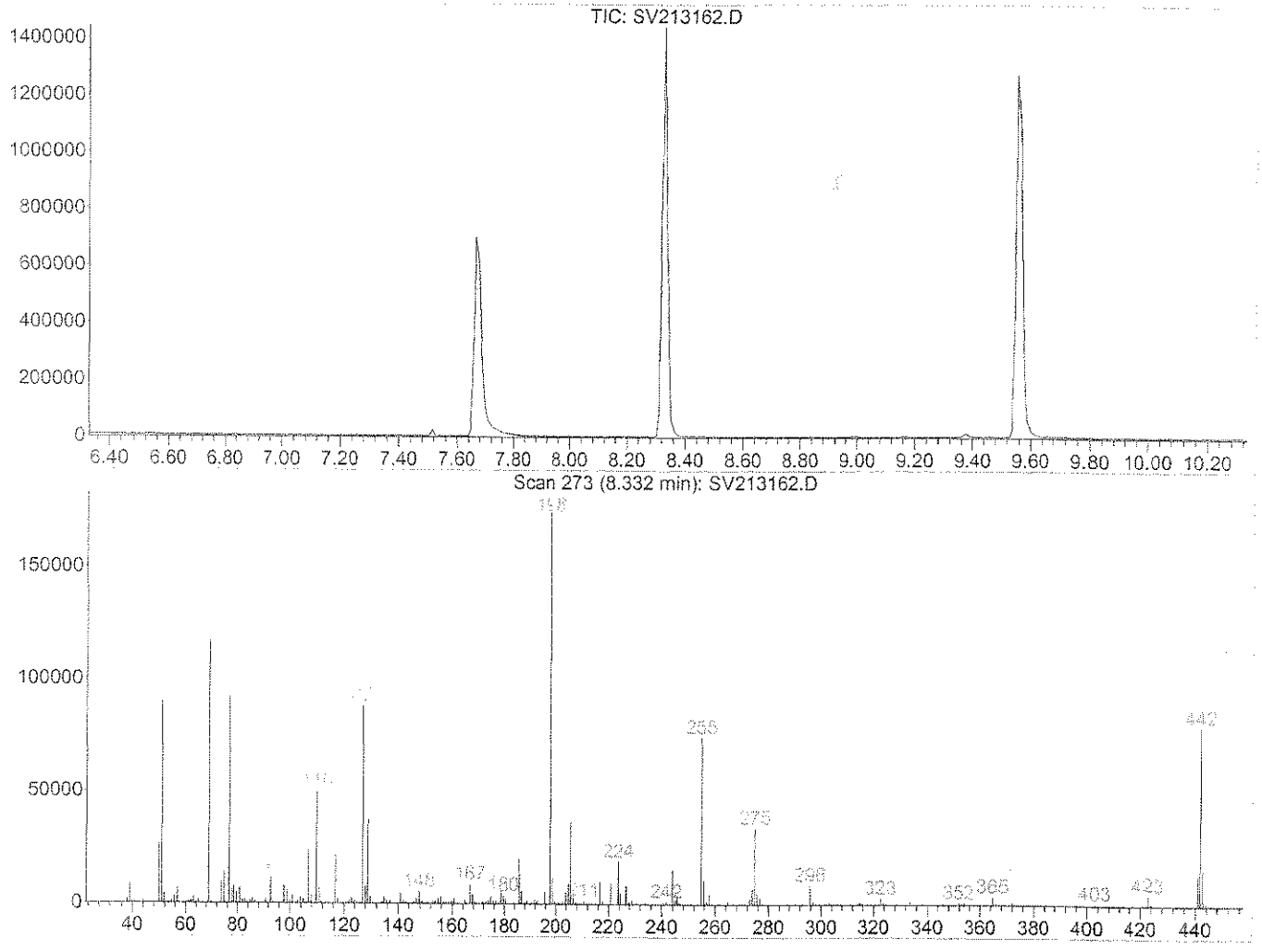
DFTPP

Data File : Q:\SVOA\MS2_ME\ME0606\ME061506\SV213162.D Vial: 1
Acq On : 15 Jun 2006 10:48 am Operator: VSC
Sample : BPF0121-TUN1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Method : C:\HPCHEM\1\METHODS\PAH2EB.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0607020



Spectrum Information: Scan 273

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	51.8	90176	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	67.1	116832	PASS
70	69	0.00	2	0.5	563	PASS
127	198	40	60	50.5	87976	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	174208	PASS
199	198	5	9	6.8	11874	PASS
275	198	10	30	19.5	33936	PASS
365	198	1	100	2.1	3583	PASS
441	443	0.01	100	90.1	14081	PASS
442	198	40	100	45.6	79352	PASS
443	442	17	23	19.7	15630	PASS

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\MS2_ME\ME0606\ME061506\SV213164.D Vial: 2
Acq On : 15 Jun 2006 12:11 pm Operator: VSC
Sample : BPF0121-CCV1 Inst : GC/MS 2
Misc : Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jun 15 12:36 2006 Quant Results File: PAH2DX.RES

Quant Method : C:\HPCHEM\1\METHODS\PAH2DX.M (RTE Integrator)
Title : LL PAH ELEMENT ID 0606012
Last Update : Wed Jun 14 10:08:41 2006
Response via : Initial Calibration
DataAcq Meth : PAH2DX

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	3.87	152	15701	2.00	ng/uL	-0.03
3) Naphthalene-d8	5.27	136	59674	2.00	ng/uL	-0.05
8) Acenaphthene-d10	7.99	164	31999	2.00	ng/uL	-0.06
13) Phenanthrene-d10	10.84	188	29805	2.00	ng/uL	-0.07
19) Chrysene-d12	16.46	240	10958	2.00	ng/uL	-0.08
24) Perylene-d12	19.29	264	9945	2.00	ng/uL	-0.10
System Monitoring Compounds						
2) 1,2 Dichlorobenzene-d4(SUR	4.06	152	7423m	1.15	ng/uL	-0.03
Spiked Amount 2.500			Recovery = 46.00%			
4) Nitrobenzene-d5 (SURR)	4.45	82	13595	1.17	ng/uL	-0.04
Spiked Amount 2.500			Recovery = 46.80%			
9) 2-Fluorobiphenyl (SURR)	6.83	172	18514	0.95	ng/uL	-0.05
Spiked Amount 2.500			Recovery = 38.00%			
14) 2,4,6-Tribromophenol (SURR	9.49	330	1355m	1.30	ng/uL	-0.07
Spiked Amount 3.750			Recovery = 34.67%			
21) Terphenyl-d14 (SURR)	14.25	244	5412	0.96	ng/uL	-0.08
Spiked Amount 2.500			Recovery = 38.40%			
Target Compounds						Qvalue
5) Naphthalene	5.30	128	27421	0.92	ng/uL#	97
6) 2-Methylnaphthalene	6.24	142	16810	0.92	ng/uL	96
7) 1-Methylnaphthalene	6.40	142	16962	0.94	ng/uL	93
10) Acenaphthylene	7.71	152	25604	0.90	ng/uL#	99
11) Acenaphthene	8.04	153	16225	0.89	ng/uL	98
12) Fluorene	8.99	166	16191	0.89	ng/uL	97
15) Pentachlorophenol	10.61	266	769	0.88	ng/uL#	100
16) Phenanthrene	10.89	178	16025	0.91	ng/uL#	99
17) Anthracene	10.98	178	14623	0.86	ng/uL#	96
18) Fluoranthene	13.39	202	10421	1.01	ng/uL	91
20) Pyrene	13.85	202	10977	0.89	ng/uL	94
22) Benzo(a)anthracene	16.42	228	6286	0.89	ng/uL	97
23) Chrysene	16.50	228	6665	0.94	ng/uL	91
25) Benzo(b)fluoranthene	18.59	252	5730	0.84	ng/uL	94
26) Benzo(k)fluoranthene	18.63	252	6510	0.88	ng/uL#	90
27) Benzo(a)pyrene	19.19	252	5356	0.90	ng/uL	96
28) Indeno(1,2,3-cd)pyrene	21.35	276	3753	0.73	ng/uL#	100
29) Dibenzo(a,h)anthracene	21.37	278	3044	0.76	ng/uL#	99
30) Benzo(g,h,i)perylene	21.90	276	3156m	0.70	ng/uL	

(#) = qualifier out of range (m) = manual integration

Semi-Volatile Organics Logbooks

ESS Organic Preparation Logbook

Project #: 0606113
Prep Date: 6/12/06
Batch ID: LLFBF61210
Extraction Method: 3510

Surrogate ID#
A 6F10000
B NA
C

Matrix Spike ID#
D 6F07094
E NA
F

Analytical Matrix: Aq
Extraction Time:
Start: 2:30
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
LLFBF61210-B	1000	1	NA	1	1	NA	6/12/06	40	>12			EM	NMT	M
-BS	1000	1	0.005	1	1	↓	↓	↓	>12			↓	↓	↓
-BSD	1000	1	0.005	1	1	↓	↓	↓	>12			↓	↓	↓
0606113-18	1000	1	NA	1	1	NA	6/12/06	40	>12	✓		EM	NMT	↓

Analysis Performed:
- ☐ PCB
- ☐ B/N SVOA
- ☐ SVOA
- ☑ LL PAH
- ☐ PEST
- ☐ TPH/GC
- ☐ BIS-2
- ☐ PAH

Acid Washed: Y / N (N) H2SO4 ID# NA	Cu Cleaned: Y / N (N) Cu ID# NA	Florisiled: Y / N (N) Lot# NA	Silica Column/Carbon prep: Y / N (N) Lot # NA

CH_2Cl_2 lot # CQ479
Hexane lot# NA
Acetone lot# NA
NaOH ID# WR053106A
Na_2SO_4 ID# MD060906D

Prepared By: EM
Glasswool: MD060606
Method #(s): 8270

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A

BATCH ID/Test: B6L1218

BATCH ID/Test: ____

Page ____

071

Pesticides
Data Package

Pesticides
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI024
Date Sampled: 06/07/06 10:18
Percent Solids: 77
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-01
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	**16.4**	ug/Kg dry	6.69	1	06/15/06
4,4'-DDE	**29.7**	ug/Kg dry	6.69	1	06/15/06
4,4'-DDT	**61.7**	ug/Kg dry	6.69	1	06/15/06
Aldrin	ND	ug/Kg dry	6.69	1	06/15/06
alpha-BHC	ND	ug/Kg dry	6.69	1	06/15/06
alpha-Chlordane	**41.1**	ug/Kg dry	6.69	1	06/15/06
beta-BHC	ND	ug/Kg dry	6.69	1	06/15/06
Chlordane (Total)	**323**	ug/Kg dry	66.9	1	06/15/06
delta-BHC	ND	ug/Kg dry	6.69	1	06/15/06
Dieldrin	ND	ug/Kg dry	6.69	1	06/15/06
Endosulfan I	ND	ug/Kg dry	6.69	1	06/15/06
Endosulfan II	ND	ug/Kg dry	6.69	1	06/15/06
Endosulfan Sulfate	ND	ug/Kg dry	6.69	1	06/15/06
Endrin	ND	ug/Kg dry	6.69	1	06/15/06
Endrin Aldehyde	ND	ug/Kg dry	6.69	1	06/15/06
Endrin Ketone	ND	ug/Kg dry	6.69	1	06/15/06
gamma-BHC (Lindane)	ND	ug/Kg dry	6.69	1	06/15/06
gamma-Chlordane	**36.3**	ug/Kg dry	6.69	1	06/15/06
Heptachlor	ND	ug/Kg dry	6.69	1	06/15/06
Heptachlor Epoxide	ND	ug/Kg dry	6.69	1	06/15/06
Hexachlorobenzene	ND	ug/Kg dry	6.69	1	06/15/06
Methoxychlor	ND	ug/Kg dry	6.69	1	06/15/06
Toxaphene	ND	ug/Kg dry	335	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*99 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*93 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*126 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*84 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI202
Date Sampled: 06/07/06 10:42
Percent Solids: 84
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-02
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	5.78	1	06/15/06
4,4'-DDE	ND	ug/Kg dry	5.78	1	06/15/06
4,4'-DDT	**8.50**	ug/Kg dry	5.78	1	06/15/06
Aldrin	ND	ug/Kg dry	5.78	1	06/15/06
alpha-BHC	ND	ug/Kg dry	5.78	1	06/15/06
alpha-Chlordane	ND	ug/Kg dry	5.78	1	06/15/06
beta-BHC	ND	ug/Kg dry	5.78	1	06/15/06
Chlordane (Total)	ND	ug/Kg dry	57.8	1	06/15/06
delta-BHC	ND	ug/Kg dry	5.78	1	06/15/06
Dieldrin	ND	ug/Kg dry	5.78	1	06/15/06
Endosulfan I	ND	ug/Kg dry	5.78	1	06/15/06
Endosulfan II	ND	ug/Kg dry	5.78	1	06/15/06
Endosulfan Sulfate	ND	ug/Kg dry	5.78	1	06/15/06
Endrin	ND	ug/Kg dry	5.78	1	06/15/06
Endrin Aldehyde	ND	ug/Kg dry	5.78	1	06/15/06
Endrin Ketone	ND	ug/Kg dry	5.78	1	06/15/06
gamma-BHC (Lindane)	ND	ug/Kg dry	5.78	1	06/15/06
gamma-Chlordane	ND	ug/Kg dry	5.78	1	06/15/06
Heptachlor	ND	ug/Kg dry	5.78	1	06/15/06
Heptachlor Epoxide	ND	ug/Kg dry	5.78	1	06/15/06
Hexachlorobenzene	ND	ug/Kg dry	5.78	1	06/15/06
Methoxychlor	ND	ug/Kg dry	5.78	1	06/15/06
Toxaphene	ND	ug/Kg dry	289	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*68 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*65 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*69 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI002
Date Sampled: 06/07/06 11:01
Percent Solids: 42
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-03
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD		**48.0**	ug/Kg dry	11.9	1	06/15/06
4,4'-DDE		**116**	ug/Kg dry	11.9	1	06/15/06
4,4'-DDT	E	**359**	ug/Kg dry	11.9	1	06/15/06
Aldrin		ND	ug/Kg dry	11.9	1	06/15/06
alpha-BHC		ND	ug/Kg dry	11.9	1	06/15/06
alpha-Chlordane		ND	ug/Kg dry	11.9	1	06/15/06
beta-BHC		ND	ug/Kg dry	11.9	1	06/15/06
Chlordane (Total)		ND	ug/Kg dry	119	1	06/15/06
delta-BHC		ND	ug/Kg dry	11.9	1	06/15/06
Dieldrin		ND	ug/Kg dry	11.9	1	06/15/06
Endosulfan I		ND	ug/Kg dry	11.9	1	06/15/06
Endosulfan II		ND	ug/Kg dry	11.9	1	06/15/06
Endosulfan Sulfate		ND	ug/Kg dry	11.9	1	06/15/06
Endrin		ND	ug/Kg dry	11.9	1	06/15/06
Endrin Aldehyde		ND	ug/Kg dry	11.9	1	06/15/06
Endrin Ketone		ND	ug/Kg dry	11.9	1	06/15/06
gamma-BHC (Lindane)		ND	ug/Kg dry	11.9	1	06/15/06
gamma-Chlordane		ND	ug/Kg dry	11.9	1	06/15/06
Heptachlor		ND	ug/Kg dry	11.9	1	06/15/06
Heptachlor Epoxide		ND	ug/Kg dry	11.9	1	06/15/06
Hexachlorobenzene		ND	ug/Kg dry	11.9	1	06/15/06
Methoxychlor		ND	ug/Kg dry	11.9	1	06/15/06
Toxaphene		ND	ug/Kg dry	595	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*99 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*106 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*93 %*		*30-150*

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI002
Date Sampled: 06/07/06 11:01
Percent Solids: 42
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-03RE1
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD		ND	ug/Kg dry	59.5	5	06/16/06
4,4'-DDE		**131**	ug/Kg dry	59.5	5	06/16/06
4,4'-DDT		**496**	ug/Kg dry	59.5	5	06/16/06
Aldrin		ND	ug/Kg dry	59.5	5	06/16/06
alpha-BHC		ND	ug/Kg dry	59.5	5	06/16/06
alpha-Chlordane		ND	ug/Kg dry	59.5	5	06/16/06
beta-BHC		ND	ug/Kg dry	59.5	5	06/16/06
Chlordane (Total)		ND	ug/Kg dry	595	5	06/16/06
delta-BHC		ND	ug/Kg dry	59.5	5	06/16/06
Dieldrin	P	ND	ug/Kg dry	59.5	5	06/16/06
Endosulfan I		ND	ug/Kg dry	59.5	5	06/16/06
Endosulfan II		ND	ug/Kg dry	59.5	5	06/16/06
Endosulfan Sulfate		ND	ug/Kg dry	59.5	5	06/16/06
Endrin		ND	ug/Kg dry	59.5	5	06/16/06
Endrin Aldehyde		ND	ug/Kg dry	59.5	5	06/16/06
Endrin Ketone		ND	ug/Kg dry	59.5	5	06/16/06
gamma-BHC (Lindane)		ND	ug/Kg dry	59.5	5	06/16/06
gamma-Chlordane		ND	ug/Kg dry	59.5	5	06/16/06
Heptachlor		ND	ug/Kg dry	59.5	5	06/16/06
Heptachlor Epoxide		ND	ug/Kg dry	59.5	5	06/16/06
Hexachlorobenzene		ND	ug/Kg dry	59.5	5	06/16/06
Methoxychlor		ND	ug/Kg dry	59.5	5	06/16/06
Toxaphene		ND	ug/Kg dry	2980	5	06/16/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*95 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*112 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*95 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*101 %*		*30-150*

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI023
Date Sampled: 06/07/06 12:27
Percent Solids: 78
Initial Volume: 21
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-04
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD		**23.5**	ug/Kg dry	6.11	1	06/15/06
4,4'-DDE		**45.8**	ug/Kg dry	6.11	1	06/15/06
4,4'-DDT		**60.9**	ug/Kg dry	6.11	1	06/15/06
Aldrin		ND	ug/Kg dry	6.11	1	06/15/06
alpha-BHC		ND	ug/Kg dry	6.11	1	06/15/06
alpha-Chlordane	E, P	**306**	ug/Kg dry	6.11	1	06/15/06
beta-BHC		ND	ug/Kg dry	6.11	1	06/15/06
Chlordane (Total)		ND	ug/Kg dry	61.1	1	06/15/06
delta-BHC		ND	ug/Kg dry	6.11	1	06/15/06
Dieldrin		ND	ug/Kg dry	6.11	1	06/15/06
Endosulfan I		ND	ug/Kg dry	6.11	1	06/15/06
Endosulfan II		ND	ug/Kg dry	6.11	1	06/15/06
Endosulfan Sulfate		ND	ug/Kg dry	6.11	1	06/15/06
Endrin		ND	ug/Kg dry	6.11	1	06/15/06
Endrin Aldehyde		ND	ug/Kg dry	6.11	1	06/15/06
Endrin Ketone		ND	ug/Kg dry	6.11	1	06/15/06
gamma-BHC (Lindane)		ND	ug/Kg dry	6.11	1	06/15/06
gamma-Chlordane	E	**186**	ug/Kg dry	6.11	1	06/15/06
Heptachlor		ND	ug/Kg dry	6.11	1	06/15/06
Heptachlor Epoxide	E	**136**	ug/Kg dry	6.11	1	06/15/06
Hexachlorobenzene		ND	ug/Kg dry	6.11	1	06/15/06
Methoxychlor		ND	ug/Kg dry	6.11	1	06/15/06
Toxaphene		ND	ug/Kg dry	305	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*66 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*88 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*76 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*76 %*		*30-150*

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JUL 24 2006

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI023
Date Sampled: 06/07/06 12:27
Percent Solids: 78
Initial Volume: 21
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-04RE1
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD		ND	ug/Kg dry	61.1	10	06/16/06
4,4'-DDE	P	ND	ug/Kg dry	61.1	10	06/16/06
4,4'-DDT	P	**91.0**	ug/Kg dry	61.1	10	06/16/06
Aldrin		ND	ug/Kg dry	61.1	10	06/16/06
alpha-BHC		ND	ug/Kg dry	61.1	10	06/16/06
alpha-Chlordane		**258**	ug/Kg dry	61.1	10	06/16/06
beta-BHC		ND	ug/Kg dry	61.1	10	06/16/06
Chlordane (Total)		**2090**	ug/Kg dry	611	10	06/16/06
delta-BHC		ND	ug/Kg dry	61.1	10	06/16/06
Dieldrin		ND	ug/Kg dry	61.1	10	06/16/06
Endosulfan I		ND	ug/Kg dry	61.1	10	06/16/06
Endosulfan II		ND	ug/Kg dry	61.1	10	06/16/06
Endosulfan Sulfate		ND	ug/Kg dry	61.1	10	06/16/06
Endrin		ND	ug/Kg dry	61.1	10	06/16/06
Endrin Aldehyde		ND	ug/Kg dry	61.1	10	06/16/06
Endrin Ketone		ND	ug/Kg dry	61.1	10	06/16/06
gamma-BHC (Lindane)		ND	ug/Kg dry	61.1	10	06/16/06
gamma-Chlordane		**180**	ug/Kg dry	61.1	10	06/16/06
Heptachlor		ND	ug/Kg dry	61.1	10	06/16/06
Heptachlor Epoxide		**124**	ug/Kg dry	61.1	10	06/16/06
Hexachlorobenzene		ND	ug/Kg dry	61.1	10	06/16/06
Methoxychlor		ND	ug/Kg dry	61.1	10	06/16/06
Toxaphene		ND	ug/Kg dry	3050	10	06/16/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*%*	*+*	*30-150*
Surrogate: Decachlorobiphenyl [2C]	*58 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*52 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*90 %*		*30-150*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI021
Date Sampled: 06/08/06 16:05
Percent Solids: 79
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-05
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD		ND	ug/Kg dry	6.30	1	06/15/06
4,4'-DDE		**19.0**	ug/Kg dry	6.30	1	06/15/06
4,4'-DDT	E	**116**	ug/Kg dry	6.30	1	06/15/06
Aldrin		ND	ug/Kg dry	6.30	1	06/15/06
alpha-BHC		ND	ug/Kg dry	6.30	1	06/15/06
alpha-Chlordane		ND	ug/Kg dry	6.30	1	06/15/06
beta-BHC		ND	ug/Kg dry	6.30	1	06/15/06
Chlordane (Total)		ND	ug/Kg dry	63.0	1	06/15/06
delta-BHC		ND	ug/Kg dry	6.30	1	06/15/06
Dieldrin		ND	ug/Kg dry	6.30	1	06/15/06
Endosulfan I		ND	ug/Kg dry	6.30	1	06/15/06
Endosulfan II		ND	ug/Kg dry	6.30	1	06/15/06
Endosulfan Sulfate		ND	ug/Kg dry	6.30	1	06/15/06
Endrin		ND	ug/Kg dry	6.30	1	06/15/06
Endrin Aldehyde		ND	ug/Kg dry	6.30	1	06/15/06
Endrin Ketone		ND	ug/Kg dry	6.30	1	06/15/06
gamma-BHC (Lindane)		ND	ug/Kg dry	6.30	1	06/15/06
gamma-Chlordane		ND	ug/Kg dry	6.30	1	06/15/06
Heptachlor		ND	ug/Kg dry	6.30	1	06/15/06
Heptachlor Epoxide		ND	ug/Kg dry	6.30	1	06/15/06
Hexachlorobenzene		ND	ug/Kg dry	6.30	1	06/15/06
Methoxychlor		ND	ug/Kg dry	6.30	1	06/15/06
Toxaphene		ND	ug/Kg dry	315	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*86 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*88 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*71 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*74 %*		*30-150*

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JUL 24 2006

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI021
Date Sampled: 06/08/06 16:05
Percent Solids: 79
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-05RE1
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	31.5	5	06/16/06
4,4'-DDE	ND	ug/Kg dry	31.5	5	06/16/06
4,4'-DDT	**143**	ug/Kg dry	31.5	5	06/16/06
Aldrin	ND	ug/Kg dry	31.5	5	06/16/06
alpha-BHC	ND	ug/Kg dry	31.5	5	06/16/06
alpha-Chlordane	ND	ug/Kg dry	31.5	5	06/16/06
beta-BHC	ND	ug/Kg dry	31.5	5	06/16/06
Chlordane (Total)	ND	ug/Kg dry	315	5	06/16/06
delta-BHC	ND	ug/Kg dry	31.5	5	06/16/06
Dieldrin	ND	ug/Kg dry	31.5	5	06/16/06
Endosulfan I	ND	ug/Kg dry	31.5	5	06/16/06
Endosulfan II	ND	ug/Kg dry	31.5	5	06/16/06
Endosulfan Sulfate	ND	ug/Kg dry	31.5	5	06/16/06
Endrin	ND	ug/Kg dry	31.5	5	06/16/06
Endrin Aldehyde	ND	ug/Kg dry	31.5	5	06/16/06
Endrin Ketone	ND	ug/Kg dry	31.5	5	06/16/06
gamma-BHC (Lindane)	ND	ug/Kg dry	31.5	5	06/16/06
gamma-Chlordane	ND	ug/Kg dry	31.5	5	06/16/06
Heptachlor	ND	ug/Kg dry	31.5	5	06/16/06
Heptachlor Epoxide	ND	ug/Kg dry	31.5	5	06/16/06
Hexachlorobenzene	ND	ug/Kg dry	31.5	5	06/16/06
Methoxychlor	ND	ug/Kg dry	31.5	5	06/16/06
Toxaphene	ND	ug/Kg dry	1570	5	06/16/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*65 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*65 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*78 %*		*30-150*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI012
Date Sampled: 06/08/06 12:29
Percent Solids: 92
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-06
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	5.28	1	06/15/06
4,4'-DDE	ND	ug/Kg dry	5.28	1	06/15/06
4,4'-DDT	**9.76**	ug/Kg dry	5.28	1	06/15/06
Aldrin	ND	ug/Kg dry	5.28	1	06/15/06
alpha-BHC	ND	ug/Kg dry	5.28	1	06/15/06
alpha-Chlordane	ND	ug/Kg dry	5.28	1	06/15/06
beta-BHC	ND	ug/Kg dry	5.28	1	06/15/06
Chlordane (Total)	ND	ug/Kg dry	52.8	1	06/15/06
delta-BHC	ND	ug/Kg dry	5.28	1	06/15/06
Dieldrin	ND	ug/Kg dry	5.28	1	06/15/06
Endosulfan I	ND	ug/Kg dry	5.28	1	06/15/06
Endosulfan II	ND	ug/Kg dry	5.28	1	06/15/06
Endosulfan Sulfate	ND	ug/Kg dry	5.28	1	06/15/06
Endrin	ND	ug/Kg dry	5.28	1	06/15/06
Endrin Aldehyde	ND	ug/Kg dry	5.28	1	06/15/06
Endrin Ketone	ND	ug/Kg dry	5.28	1	06/15/06
gamma-BHC (Lindane)	ND	ug/Kg dry	5.28	1	06/15/06
gamma-Chlordane	ND	ug/Kg dry	5.28	1	06/15/06
Heptachlor	ND	ug/Kg dry	5.28	1	06/15/06
Heptachlor Epoxide	ND	ug/Kg dry	5.28	1	06/15/06
Hexachlorobenzene	ND	ug/Kg dry	5.28	1	06/15/06
Methoxychlor	ND	ug/Kg dry	5.28	1	06/15/06
Toxaphene	ND	ug/Kg dry	264	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*81 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*78 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI013
Date Sampled: 06/08/06 14:01
Percent Solids: 93
Initial Volume: 20.9
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-07
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	5.14	1	06/15/06
4,4'-DDE	ND	ug/Kg dry	5.14	1	06/15/06
4,4'-DDT	ND	ug/Kg dry	5.14	1	06/15/06
Aldrin	ND	ug/Kg dry	5.14	1	06/15/06
alpha-BHC	ND	ug/Kg dry	5.14	1	06/15/06
alpha-Chlordane	ND	ug/Kg dry	5.14	1	06/15/06
beta-BHC	ND	ug/Kg dry	5.14	1	06/15/06
Chlordane (Total)	ND	ug/Kg dry	51.4	1	06/15/06
delta-BHC	ND	ug/Kg dry	5.14	1	06/15/06
Dieldrin	ND	ug/Kg dry	5.14	1	06/15/06
Endosulfan I	ND	ug/Kg dry	5.14	1	06/15/06
Endosulfan II	ND	ug/Kg dry	5.14	1	06/15/06
Endosulfan Sulfate	ND	ug/Kg dry	5.14	1	06/15/06
Endrin	ND	ug/Kg dry	5.14	1	06/15/06
Endrin Aldehyde	ND	ug/Kg dry	5.14	1	06/15/06
Endrin Ketone	ND	ug/Kg dry	5.14	1	06/15/06
gamma-BHC (Lindane)	ND	ug/Kg dry	5.14	1	06/15/06
gamma-Chlordane	ND	ug/Kg dry	5.14	1	06/15/06
Heptachlor	ND	ug/Kg dry	5.14	1	06/15/06
Heptachlor Epoxide	ND	ug/Kg dry	5.14	1	06/15/06
Hexachlorobenzene	ND	ug/Kg dry	5.14	1	06/15/06
Methoxychlor	ND	ug/Kg dry	5.14	1	06/15/06
Toxaphene	ND	ug/Kg dry	257	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*83 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*83 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI014
Date Sampled: 06/08/06 14:16
Percent Solids: 94
Initial Volume: 21
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-08
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	5.07	1	06/15/06
4,4'-DDE	ND	ug/Kg dry	5.07	1	06/15/06
4,4'-DDT	ND	ug/Kg dry	5.07	1	06/15/06
Aldrin	ND	ug/Kg dry	5.07	1	06/15/06
alpha-BHC	ND	ug/Kg dry	5.07	1	06/15/06
alpha-Chlordane	ND	ug/Kg dry	5.07	1	06/15/06
beta-BHC	ND	ug/Kg dry	5.07	1	06/15/06
Chlordane (Total)	ND	ug/Kg dry	50.7	1	06/15/06
delta-BHC	ND	ug/Kg dry	5.07	1	06/15/06
Dieldrin	ND	ug/Kg dry	5.07	1	06/15/06
Endosulfan I	ND	ug/Kg dry	5.07	1	06/15/06
Endosulfan II	ND	ug/Kg dry	5.07	1	06/15/06
Endosulfan Sulfate	ND	ug/Kg dry	5.07	1	06/15/06
Endrin	ND	ug/Kg dry	5.07	1	06/15/06
Endrin Aldehyde	ND	ug/Kg dry	5.07	1	06/15/06
Endrin Ketone	ND	ug/Kg dry	5.07	1	06/15/06
gamma-BHC (Lindane)	ND	ug/Kg dry	5.07	1	06/15/06
gamma-Chlordane	ND	ug/Kg dry	5.07	1	06/15/06
Heptachlor	ND	ug/Kg dry	5.07	1	06/15/06
Heptachlor Epoxide	ND	ug/Kg dry	5.07	1	06/15/06
Hexachlorobenzene	ND	ug/Kg dry	5.07	1	06/15/06
Methoxychlor	ND	ug/Kg dry	5.07	1	06/15/06
Toxaphene	ND	ug/Kg dry	253	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*84 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*88 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI015
Date Sampled: 06/08/06 14:31
Percent Solids: 89
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-09
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD		**7.29**	ug/Kg dry	5.62	1	06/15/06
4,4'-DDE		**19.1**	ug/Kg dry	5.62	1	06/15/06
4,4'-DDT	E	**80.4**	ug/Kg dry	5.62	1	06/15/06
Aldrin		ND	ug/Kg dry	5.62	1	06/15/06
alpha-BHC		ND	ug/Kg dry	5.62	1	06/15/06
alpha-Chlordane		**35.4**	ug/Kg dry	5.62	1	06/15/06
beta-BHC		ND	ug/Kg dry	5.62	1	06/15/06
Chlordane (Total)		**226**	ug/Kg dry	56.2	1	06/15/06
delta-BHC		ND	ug/Kg dry	5.62	1	06/15/06
Dieldrin		ND	ug/Kg dry	5.62	1	06/15/06
Endosulfan I		ND	ug/Kg dry	5.62	1	06/15/06
Endosulfan II		ND	ug/Kg dry	5.62	1	06/15/06
Endosulfan Sulfate		ND	ug/Kg dry	5.62	1	06/15/06
Endrin		ND	ug/Kg dry	5.62	1	06/15/06
Endrin Aldehyde		ND	ug/Kg dry	5.62	1	06/15/06
Endrin Ketone		ND	ug/Kg dry	5.62	1	06/15/06
gamma-BHC (Lindane)		ND	ug/Kg dry	5.62	1	06/15/06
gamma-Chlordane		**24.8**	ug/Kg dry	5.62	1	06/15/06
Heptachlor		ND	ug/Kg dry	5.62	1	06/15/06
Heptachlor Epoxide		ND	ug/Kg dry	5.62	1	06/15/06
Hexachlorobenzene		ND	ug/Kg dry	5.62	1	06/15/06
Methoxychlor		ND	ug/Kg dry	5.62	1	06/15/06
Toxaphene		ND	ug/Kg dry	281	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*75 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*79 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*93 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*82 %*		*30-150*

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JUL 24 2006

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI015
Date Sampled: 06/08/06 14:31
Percent Solids: 89
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-09RE1
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD	P	**83.5**	ug/Kg dry	28.1	5	06/17/06
4,4'-DDE		ND	ug/Kg dry	28.1	5	06/17/06
4,4'-DDT		**109**	ug/Kg dry	28.1	5	06/17/06
Aldrin		ND	ug/Kg dry	28.1	5	06/17/06
alpha-BHC		ND	ug/Kg dry	28.1	5	06/17/06
alpha-Chlordane		ND	ug/Kg dry	28.1	5	06/17/06
beta-BHC		ND	ug/Kg dry	28.1	5	06/17/06
Chlordane (Total)		ND	ug/Kg dry	281	5	06/17/06
delta-BHC		ND	ug/Kg dry	28.1	5	06/17/06
Dieldrin	P	**73.9**	ug/Kg dry	28.1	5	06/17/06
Endosulfan I		ND	ug/Kg dry	28.1	5	06/17/06
Endosulfan II		ND	ug/Kg dry	28.1	5	06/17/06
Endosulfan Sulfate		ND	ug/Kg dry	28.1	5	06/17/06
Endrin		ND	ug/Kg dry	28.1	5	06/17/06
Endrin Aldehyde		ND	ug/Kg dry	28.1	5	06/17/06
Endrin Ketone		ND	ug/Kg dry	28.1	5	06/17/06
gamma-BHC (Lindane)		ND	ug/Kg dry	28.1	5	06/17/06
gamma-Chlordane		ND	ug/Kg dry	28.1	5	06/17/06
Heptachlor		ND	ug/Kg dry	28.1	5	06/17/06
Heptachlor Epoxide		ND	ug/Kg dry	28.1	5	06/17/06
Hexachlorobenzene		ND	ug/Kg dry	28.1	5	06/17/06
Methoxychlor		ND	ug/Kg dry	28.1	5	06/17/06
Toxaphene		ND	ug/Kg dry	1400	5	06/17/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*67 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*73 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*108 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*93 %*		*30-150*

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JUL 2 1 2006

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI016
Date Sampled: 06/08/06 14:51
Percent Solids: 92
Initial Volume: 19
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-10
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	5.72	1	06/15/06
4,4'-DDE	ND	ug/Kg dry	5.72	1	06/15/06
4,4'-DDT	**8.58**	ug/Kg dry	5.72	1	06/15/06
Aldrin	ND	ug/Kg dry	5.72	1	06/15/06
alpha-BHC	ND	ug/Kg dry	5.72	1	06/15/06
alpha-Chlordane	ND	ug/Kg dry	5.72	1	06/15/06
beta-BHC	ND	ug/Kg dry	5.72	1	06/15/06
Chlordane (Total)	ND	ug/Kg dry	57.2	1	06/15/06
delta-BHC	ND	ug/Kg dry	5.72	1	06/15/06
Dieldrin	ND	ug/Kg dry	5.72	1	06/15/06
Endosulfan I	ND	ug/Kg dry	5.72	1	06/15/06
Endosulfan II	ND	ug/Kg dry	5.72	1	06/15/06
Endosulfan Sulfate	ND	ug/Kg dry	5.72	1	06/15/06
Endrin	ND	ug/Kg dry	5.72	1	06/15/06
Endrin Aldehyde	ND	ug/Kg dry	5.72	1	06/15/06
Endrin Ketone	ND	ug/Kg dry	5.72	1	06/15/06
gamma-BHC (Lindane)	ND	ug/Kg dry	5.72	1	06/15/06
gamma-Chlordane	**7.29**	ug/Kg dry	5.72	1	06/15/06
Heptachlor	ND	ug/Kg dry	5.72	1	06/15/06
Heptachlor Epoxide	ND	ug/Kg dry	5.72	1	06/15/06
Hexachlorobenzene	ND	ug/Kg dry	5.72	1	06/15/06
Methoxychlor	ND	ug/Kg dry	5.72	1	06/15/06
Toxaphene	ND	ug/Kg dry	286	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*72 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*82 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI017
Date Sampled: 06/08/06 15:05
Percent Solids: 90
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-11
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD		**22.8**	ug/Kg dry	5.58	1	06/15/06
4,4'-DDE		**48.6**	ug/Kg dry	5.58	1	06/15/06
4,4'-DDT		**33.2**	ug/Kg dry	5.58	1	06/15/06
Aldrin		ND	ug/Kg dry	5.58	1	06/15/06
alpha-BHC		ND	ug/Kg dry	5.58	1	06/15/06
alpha-Chlordane	E	**62.8**	ug/Kg dry	5.58	1	06/15/06
beta-BHC		ND	ug/Kg dry	5.58	1	06/15/06
Chlordane (Total)		ND	ug/Kg dry	55.8	1	06/15/06
delta-BHC		ND	ug/Kg dry	5.58	1	06/15/06
Dieldrin		ND	ug/Kg dry	5.58	1	06/15/06
Endosulfan I		ND	ug/Kg dry	5.58	1	06/15/06
Endosulfan II		ND	ug/Kg dry	5.58	1	06/15/06
Endosulfan Sulfate		ND	ug/Kg dry	5.58	1	06/15/06
Endrin		ND	ug/Kg dry	5.58	1	06/15/06
Endrin Aldehyde		ND	ug/Kg dry	5.58	1	06/15/06
Endrin Ketone		ND	ug/Kg dry	5.58	1	06/15/06
gamma-BHC (Lindane)		ND	ug/Kg dry	5.58	1	06/15/06
gamma-Chlordane		**48.3**	ug/Kg dry	5.58	1	06/15/06
Heptachlor		ND	ug/Kg dry	5.58	1	06/15/06
Heptachlor Epoxide		**8.69**	ug/Kg dry	5.58	1	06/15/06
Hexachlorobenzene		ND	ug/Kg dry	5.58	1	06/15/06
Methoxychlor		ND	ug/Kg dry	5.58	1	06/15/06
Toxaphene		ND	ug/Kg dry	279	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*88 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*113 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*88 %*		*30-150*

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JUL 24 2006

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI017
Date Sampled: 06/08/06 15:05
Percent Solids: 90
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-11RE1
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD	P	**105**	ug/Kg dry	11.2	2	06/17/06
4,4'-DDE		**48.8**	ug/Kg dry	11.2	2	06/17/06
4,4'-DDT		**49.1**	ug/Kg dry	11.2	2	06/17/06
Aldrin		ND	ug/Kg dry	11.2	2	06/17/06
alpha-BHC		ND	ug/Kg dry	11.2	2	06/17/06
alpha-Chlordane	P	**76.3**	ug/Kg dry	11.2	2	06/17/06
beta-BHC		ND	ug/Kg dry	11.2	2	06/17/06
Chlordane (Total)		**372**	ug/Kg dry	112	2	06/17/06
delta-BHC		ND	ug/Kg dry	11.2	2	06/17/06
Dieldrin	P	**88.4**	ug/Kg dry	11.2	2	06/17/06
Endosulfan I		ND	ug/Kg dry	11.2	2	06/17/06
Endosulfan II		ND	ug/Kg dry	11.2	2	06/17/06
Endosulfan Sulfate		ND	ug/Kg dry	11.2	2	06/17/06
Endrin		ND	ug/Kg dry	11.2	2	06/17/06
Endrin Aldehyde		ND	ug/Kg dry	11.2	2	06/17/06
Endrin Ketone		ND	ug/Kg dry	11.2	2	06/17/06
gamma-BHC (Lindane)		ND	ug/Kg dry	11.2	2	06/17/06
gamma-Chlordane		**49.3**	ug/Kg dry	11.2	2	06/17/06
Heptachlor	P	**13.2**	ug/Kg dry	11.2	2	06/17/06
Heptachlor Epoxide		**12.1**	ug/Kg dry	11.2	2	06/17/06
Hexachlorobenzene		ND	ug/Kg dry	11.2	2	06/17/06
Methoxychlor		ND	ug/Kg dry	11.2	2	06/17/06
Toxaphene		ND	ug/Kg dry	558	2	06/17/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*77 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*142 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*99 %*		*30-150*

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JUL 24 2006

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI018
Date Sampled: 06/08/06 15:18
Percent Solids: 93
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-12
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	5.49	1	06/15/06
4,4'-DDE	ND	ug/Kg dry	5.49	1	06/15/06
4,4'-DDT	ND	ug/Kg dry	5.49	1	06/15/06
Aldrin	ND	ug/Kg dry	5.49	1	06/15/06
alpha-BHC	ND	ug/Kg dry	5.49	1	06/15/06
alpha-Chlordane	ND	ug/Kg dry	5.49	1	06/15/06
beta-BHC	ND	ug/Kg dry	5.49	1	06/15/06
Chlordane (Total)	ND	ug/Kg dry	54.9	1	06/15/06
delta-BHC	ND	ug/Kg dry	5.49	1	06/15/06
Dieldrin	ND	ug/Kg dry	5.49	1	06/15/06
Endosulfan I	ND	ug/Kg dry	5.49	1	06/15/06
Endosulfan II	ND	ug/Kg dry	5.49	1	06/15/06
Endosulfan Sulfate	ND	ug/Kg dry	5.49	1	06/15/06
Endrin	ND	ug/Kg dry	5.49	1	06/15/06
Endrin Aldehyde	ND	ug/Kg dry	5.49	1	06/15/06
Endrin Ketone	ND	ug/Kg dry	5.49	1	06/15/06
gamma-BHC (Lindane)	ND	ug/Kg dry	5.49	1	06/15/06
gamma-Chlordane	ND	ug/Kg dry	5.49	1	06/15/06
Heptachlor	ND	ug/Kg dry	5.49	1	06/15/06
Heptachlor Epoxide	ND	ug/Kg dry	5.49	1	06/15/06
Hexachlorobenzene	ND	ug/Kg dry	5.49	1	06/15/06
Methoxychlor	ND	ug/Kg dry	5.49	1	06/15/06
Toxaphene	ND	ug/Kg dry	274	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*78 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*86 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*85 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI019
Date Sampled: 06/08/06 15:25
Percent Solids: 93
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-13
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	5.54	1	06/15/06
4,4'-DDE	ND	ug/Kg dry	5.54	1	06/15/06
4,4'-DDT	ND	ug/Kg dry	5.54	1	06/15/06
Aldrin	ND	ug/Kg dry	5.54	1	06/15/06
alpha-BHC	ND	ug/Kg dry	5.54	1	06/15/06
alpha-Chlordane	ND	ug/Kg dry	5.54	1	06/15/06
beta-BHC	ND	ug/Kg dry	5.54	1	06/15/06
Chlordane (Total)	ND	ug/Kg dry	55.4	1	06/15/06
delta-BHC	ND	ug/Kg dry	5.54	1	06/15/06
Dieldrin	ND	ug/Kg dry	5.54	1	06/15/06
Endosulfan I	ND	ug/Kg dry	5.54	1	06/15/06
Endosulfan II	ND	ug/Kg dry	5.54	1	06/15/06
Endosulfan Sulfate	ND	ug/Kg dry	5.54	1	06/15/06
Endrin	ND	ug/Kg dry	5.54	1	06/15/06
Endrin Aldehyde	ND	ug/Kg dry	5.54	1	06/15/06
Endrin Ketone	ND	ug/Kg dry	5.54	1	06/15/06
gamma-BHC (Lindane)	ND	ug/Kg dry	5.54	1	06/15/06
gamma-Chlordane	ND	ug/Kg dry	5.54	1	06/15/06
Heptachlor	ND	ug/Kg dry	5.54	1	06/15/06
Heptachlor Epoxide	ND	ug/Kg dry	5.54	1	06/15/06
Hexachlorobenzene	ND	ug/Kg dry	5.54	1	06/15/06
Methoxychlor	ND	ug/Kg dry	5.54	1	06/15/06
Toxaphene	ND	ug/Kg dry	277	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*78 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*82 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*83 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI020
Date Sampled: 06/08/06 15:43
Percent Solids: 88
Initial Volume: 19
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-14
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD		**8.37**	ug/Kg dry	5.98	1	06/15/06
4,4'-DDE		**39.7**	ug/Kg dry	5.98	1	06/15/06
4,4'-DDT	E	**78.8**	ug/Kg dry	5.98	1	06/15/06
Aldrin		ND	ug/Kg dry	5.98	1	06/15/06
alpha-BHC		ND	ug/Kg dry	5.98	1	06/15/06
alpha-Chlordane	E, P	**72.0**	ug/Kg dry	5.98	1	06/15/06
beta-BHC	E	**85400**	ug/Kg dry	5.98	1	06/15/06
Chlordane (Total)		ND	ug/Kg dry	59.8	1	06/15/06
delta-BHC		ND	ug/Kg dry	5.98	1	06/15/06
Dieldrin		ND	ug/Kg dry	5.98	1	06/15/06
Endosulfan I		ND	ug/Kg dry	5.98	1	06/15/06
Endosulfan II		ND	ug/Kg dry	5.98	1	06/15/06
Endosulfan Sulfate		ND	ug/Kg dry	5.98	1	06/15/06
Endrin		ND	ug/Kg dry	5.98	1	06/15/06
Endrin Aldehyde		ND	ug/Kg dry	5.98	1	06/15/06
Endrin Ketone		ND	ug/Kg dry	5.98	1	06/15/06
gamma-BHC (Lindane)		ND	ug/Kg dry	5.98	1	06/15/06
gamma-Chlordane	E, P	**124**	ug/Kg dry	5.98	1	06/15/06
Heptachlor		ND	ug/Kg dry	5.98	1	06/15/06
Heptachlor Epoxide		ND	ug/Kg dry	5.98	1	06/15/06
Hexachlorobenzene		**33.9**	ug/Kg dry	5.98	1	06/15/06
Methoxychlor		ND	ug/Kg dry	5.98	1	06/15/06
Toxaphene		ND	ug/Kg dry	299	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*92 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*96 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*109 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*81 %*		*30-150*

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI020
Date Sampled: 06/08/06 15:43
Percent Solids: 88
Initial Volume: 19
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-14RE1
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte		Results	Units	MRL	DF	Analyzed
4,4'-DDD	P	**86.8**	ug/Kg dry	29.9	5	06/17/06
4,4'-DDE		**58.6**	ug/Kg dry	29.9	5	06/17/06
4,4'-DDT		**107**	ug/Kg dry	29.9	5	06/17/06
Aldrin		ND	ug/Kg dry	29.9	5	06/17/06
alpha-BHC		ND	ug/Kg dry	29.9	5	06/17/06
alpha-Chlordane	P	**66.1**	ug/Kg dry	29.9	5	06/17/06
beta-BHC		**97.0**	ug/Kg dry	29.9	5	06/17/06
Chlordane (Total)		ND	ug/Kg dry	299	5	06/17/06
delta-BHC		ND	ug/Kg dry	29.9	5	06/17/06
Dieldrin	P	**88.3**	ug/Kg dry	29.9	5	06/17/06
Endosulfan I		ND	ug/Kg dry	29.9	5	06/17/06
Endosulfan II		ND	ug/Kg dry	29.9	5	06/17/06
Endosulfan Sulfate		ND	ug/Kg dry	29.9	5	06/17/06
Endrin		ND	ug/Kg dry	29.9	5	06/17/06
Endrin Aldehyde		ND	ug/Kg dry	29.9	5	06/17/06
Endrin Ketone		ND	ug/Kg dry	29.9	5	06/17/06
gamma-BHC (Lindane)		ND	ug/Kg dry	29.9	5	06/17/06
gamma-Chlordane	P	**158**	ug/Kg dry	29.9	5	06/17/06
Heptachlor	P	**197**	ug/Kg dry	29.9	5	06/17/06
Heptachlor Epoxide		ND	ug/Kg dry	29.9	5	06/17/06
Hexachlorobenzene		**40.8**	ug/Kg dry	29.9	5	06/17/06
Methoxychlor		ND	ug/Kg dry	29.9	5	06/17/06
Toxaphene		ND	ug/Kg dry	1500	5	06/17/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*91 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*88 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*100 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*87 %*		*30-150*

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI101
Date Sampled: 06/08/06 09:52
Percent Solids: 85
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-15
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	6.10	1	06/15/06
4,4'-DDE	ND	ug/Kg dry	6.10	1	06/15/06
4,4'-DDT	ND	ug/Kg dry	6.10	1	06/15/06
Aldrin	ND	ug/Kg dry	6.10	1	06/15/06
alpha-BHC	ND	ug/Kg dry	6.10	1	06/15/06
alpha-Chlordane	ND	ug/Kg dry	6.10	1	06/15/06
beta-BHC	ND	ug/Kg dry	6.10	1	06/15/06
Chlordane (Total)	ND	ug/Kg dry	61.0	1	06/15/06
delta-BHC	ND	ug/Kg dry	6.10	1	06/15/06
Dieldrin	ND	ug/Kg dry	6.10	1	06/15/06
Endosulfan I	ND	ug/Kg dry	6.10	1	06/15/06
Endosulfan II	ND	ug/Kg dry	6.10	1	06/15/06
Endosulfan Sulfate	ND	ug/Kg dry	6.10	1	06/15/06
Endrin	ND	ug/Kg dry	6.10	1	06/15/06
Endrin Aldehyde	ND	ug/Kg dry	6.10	1	06/15/06
Endrin Ketone	ND	ug/Kg dry	6.10	1	06/15/06
gamma-BHC (Lindane)	ND	ug/Kg dry	6.10	1	06/15/06
gamma-Chlordane	ND	ug/Kg dry	6.10	1	06/15/06
Heptachlor	ND	ug/Kg dry	6.10	1	06/15/06
Heptachlor Epoxide	ND	ug/Kg dry	6.10	1	06/15/06
Hexachlorobenzene	ND	ug/Kg dry	6.10	1	06/15/06
Methoxychlor	ND	ug/Kg dry	6.10	1	06/15/06
Toxaphene	ND	ug/Kg dry	305	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*82 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*81 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*97 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI022
Date Sampled: 06/08/06 09:13
Percent Solids: 91
Initial Volume: 21
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-16
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4´-DDD	ND	ug/Kg dry	5.23	1	06/15/06
4,4´-DDE	ND	ug/Kg dry	5.23	1	06/15/06
4,4´-DDT	**10.5**	ug/Kg dry	5.23	1	06/15/06
Aldrin	ND	ug/Kg dry	5.23	1	06/15/06
alpha-BHC	ND	ug/Kg dry	5.23	1	06/15/06
alpha-Chlordane	ND	ug/Kg dry	5.23	1	06/15/06
beta-BHC	ND	ug/Kg dry	5.23	1	06/15/06
Chlordane (Total)	ND	ug/Kg dry	52.3	1	06/15/06
delta-BHC	ND	ug/Kg dry	5.23	1	06/15/06
Dieldrin	ND	ug/Kg dry	5.23	1	06/15/06
Endosulfan I	ND	ug/Kg dry	5.23	1	06/15/06
Endosulfan II	ND	ug/Kg dry	5.23	1	06/15/06
Endosulfan Sulfate	ND	ug/Kg dry	5.23	1	06/15/06
Endrin	ND	ug/Kg dry	5.23	1	06/15/06
Endrin Aldehyde	ND	ug/Kg dry	5.23	1	06/15/06
Endrin Ketone	ND	ug/Kg dry	5.23	1	06/15/06
gamma-BHC (Lindane)	ND	ug/Kg dry	5.23	1	06/15/06
gamma-Chlordane	**7.37**	ug/Kg dry	5.23	1	06/15/06
Heptachlor	ND	ug/Kg dry	5.23	1	06/15/06
Heptachlor Epoxide	ND	ug/Kg dry	5.23	1	06/15/06
Hexachlorobenzene	ND	ug/Kg dry	5.23	1	06/15/06
Methoxychlor	ND	ug/Kg dry	5.23	1	06/15/06
Toxaphene	ND	ug/Kg dry	262	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*83 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*84 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*79 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI205
Date Sampled: 06/08/06 07:44
Percent Solids: 89
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-17
Sample Matrix: Soil
Analyst: SEP
Prepared: 06/09/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/Kg dry	5.79	1	06/15/06
4,4'-DDE	ND	ug/Kg dry	5.79	1	06/15/06
4,4'-DDT	ND	ug/Kg dry	5.79	1	06/15/06
Aldrin	ND	ug/Kg dry	5.79	1	06/15/06
alpha-BHC	ND	ug/Kg dry	5.79	1	06/15/06
alpha-Chlordane	ND	ug/Kg dry	5.79	1	06/15/06
beta-BHC	ND	ug/Kg dry	5.79	1	06/15/06
Chlordane (Total)	ND	ug/Kg dry	57.9	1	06/15/06
delta-BHC	ND	ug/Kg dry	5.79	1	06/15/06
Dieldrin	ND	ug/Kg dry	5.79	1	06/15/06
Endosulfan I	ND	ug/Kg dry	5.79	1	06/15/06
Endosulfan II	ND	ug/Kg dry	5.79	1	06/15/06
Endosulfan Sulfate	ND	ug/Kg dry	5.79	1	06/15/06
Endrin	ND	ug/Kg dry	5.79	1	06/15/06
Endrin Aldehyde	ND	ug/Kg dry	5.79	1	06/15/06
Endrin Ketone	ND	ug/Kg dry	5.79	1	06/15/06
gamma-BHC (Lindane)	ND	ug/Kg dry	5.79	1	06/15/06
gamma-Chlordane	ND	ug/Kg dry	5.79	1	06/15/06
Heptachlor	ND	ug/Kg dry	5.79	1	06/15/06
Heptachlor Epoxide	ND	ug/Kg dry	5.79	1	06/15/06
Hexachlorobenzene	ND	ug/Kg dry	5.79	1	06/15/06
Methoxychlor	ND	ug/Kg dry	5.79	1	06/15/06
Toxaphene	ND	ug/Kg dry	290	1	06/15/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*74 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*78 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*79 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: RB-1
Date Sampled: 06/08/06 10:41
Percent Solids: N/A
Initial Volume: 1000
Final Volume: 5
Extraction Method: 3510C

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-18
Sample Matrix: Aqueous
Analyst: SEP
Prepared: 06/12/06

8081A Organochlorine Pesticides

Analyte	Results	Units	MRL	DF	Analyzed
4,4'-DDD	ND	ug/L	0.05	1	06/16/06
4,4'-DDE	ND	ug/L	0.05	1	06/16/06
4,4'-DDT	ND	ug/L	0.05	1	06/16/06
Aldrin	ND	ug/L	0.05	1	06/16/06
alpha-BHC	ND	ug/L	0.05	1	06/16/06
alpha-Chlordane	ND	ug/L	0.05	1	06/16/06
beta-BHC	ND	ug/L	0.05	1	06/16/06
Chlordane (Total)	ND	ug/L	0.50	1	06/16/06
delta-BHC	ND	ug/L	0.05	1	06/16/06
Dieldrin	ND	ug/L	0.05	1	06/16/06
Endosulfan I	ND	ug/L	0.05	1	06/16/06
Endosulfan II	ND	ug/L	0.05	1	06/16/06
Endosulfan Sulfate	ND	ug/L	0.05	1	06/16/06
Endrin	ND	ug/L	0.05	1	06/16/06
Endrin Aldehyde	ND	ug/L	0.05	1	06/16/06
Endrin Ketone	ND	ug/L	0.05	1	06/16/06
gamma-BHC (Lindane)	ND	ug/L	0.05	1	06/16/06
gamma-Chlordane	ND	ug/L	0.05	1	06/16/06
Heptachlor	ND	ug/L	0.05	1	06/16/06
Heptachlor Epoxide	ND	ug/L	0.05	1	06/16/06
Hexachlorobenzene	ND	ug/L	0.05	1	06/16/06
Methoxychlor	ND	ug/L	0.05	1	06/16/06
Toxaphene	ND	ug/L	2.50	1	06/16/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*97 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*93 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*67 %*		*30-150*

Pesticides
Quality Control

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Low Level										
Batch BF60918 - 5035										
Tertiary-amyl methyl ether	25.1		ug/L	25.0		100	70-130	0	20	
Tetrachloroethene	24.6		ug/L	25.0		98	70-130	2	20	
Tetrahydrofuran	25.2		ug/L	25.0		101	70-130	3	20	
Toluene	24.9		ug/L	25.0		100	70-130	0	20	
trans-1,2-Dichloroethene	28.2		ug/L	25.0		113	70-130	2	20	
trans-1,3-Dichloropropene	22.0		ug/L	25.0		88	70-130	0	20	
Trichloroethene	24.2		ug/L	25.0		97	70-130	1	20	
Trichlorofluoromethane	24.3		ug/L	25.0		97	70-130	1	20	
Vinyl Chloride	26.6		ug/L	25.0		106	70-130	2	20	
Xylene O	24.9		ug/L	25.0		100	70-130	0	20	
Xylene P,M	50.2		ug/L	50.0		100	70-130	1	20	
Surrogate: 1,2-Dichloroethane-d4	*23.9*		ug/L	*25.0*		*96*	*70-130*			
Surrogate: 4-Bromofluorobenzene	*24.5*		ug/L	*25.0*		*98*	*70-130*			
Surrogate: Dibromofluoromethane	*23.8*		ug/L	*25.0*		*95*	*70-130*			
Surrogate: Toluene-d8	*24.7*		ug/L	*25.0*		*99*	*70-130*			
8081A Organochlorine Pesticides										
Batch BF60923 - 3541										
Blank										
4,4'-DDD	ND	5.00	ug/Kg wet							
4,4'-DDE	ND	5.00	ug/Kg wet							
4,4'-DDT	ND	5.00	ug/Kg wet							
Aldrin	ND	5.00	ug/Kg wet							
alpha-BHC	ND	5.00	ug/Kg wet							
alpha-Chlordane	ND	5.00	ug/Kg wet							
beta-BHC	ND	5.00	ug/Kg wet							
Chlordane (Total)	ND	50.0	ug/Kg wet							
delta-BHC	ND	5.00	ug/Kg wet							
Dieldrin	ND	5.00	ug/Kg wet							
Endosulfan I	ND	5.00	ug/Kg wet							
Endosulfan II	ND	5.00	ug/Kg wet							
Endosulfan Sulfate	ND	5.00	ug/Kg wet							
Endrin	ND	5.00	ug/Kg wet							
Endrin Aldehyde	ND	5.00	ug/Kg wet							
Endrin Ketone	ND	5.00	ug/Kg wet							
gamma-BHC (Lindane)	ND	5.00	ug/Kg wet							
gamma-Chlordane	ND	5.00	ug/Kg wet							
Heptachlor	ND	5.00	ug/Kg wet							
Heptachlor Epoxide	ND	5.00	ug/Kg wet							
Hexachlorobenzene	ND	5.00	ug/Kg wet							
Methoxychlor	ND	5.00	ug/Kg wet							
Toxaphene	ND	250	ug/Kg wet							
Surrogate: Decachlorobiphenyl	*22.1*		ug/Kg wet	*25.0*		*88*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*20.3*		ug/Kg wet	*25.0*		*81*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*20.1*		ug/Kg wet	*25.0*		*80*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*20.7*		ug/Kg wet	*25.0*		*83*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch BF60923 - 3541										
LCS										
4,4´-DDD	19.2	5.00	ug/Kg wet	25.0		77	40-140			
4,4´-DDE	19.3	5.00	ug/Kg wet	25.0		77	40-140			
4,4´-DDT	17.4	5.00	ug/Kg wet	25.0		70	40-140			
Aldrin	18.3	5.00	ug/Kg wet	25.0		73	40-140			
alpha-BHC	17.0	5.00	ug/Kg wet	25.0		68	40-140			
alpha-Chlordane	19.6	5.00	ug/Kg wet	25.0		78	40-140			
beta-BHC	20.7	5.00	ug/Kg wet	25.0		83	40-140			
delta-BHC	11.8	5.00	ug/Kg wet	25.0		47	40-140			
Dieldrin	19.6	5.00	ug/Kg wet	25.0		78	40-140			
Endosulfan I	19.5	5.00	ug/Kg wet	25.0		78	40-140			
Endosulfan II	19.8	5.00	ug/Kg wet	25.0		79	40-140			
Endosulfan Sulfate	19.4	5.00	ug/Kg wet	25.0		78	40-140			
Endrin	19.3	5.00	ug/Kg wet	25.0		77	40-140			
Endrin Aldehyde	18.0	5.00	ug/Kg wet	25.0		72	40-140			
Endrin Ketone	18.8	5.00	ug/Kg wet	25.0		75	40-140			
gamma-BHC (Lindane)	18.6	5.00	ug/Kg wet	25.0		74	40-140			
gamma-Chlordane	22.5	5.00	ug/Kg wet	25.0		90	40-140			
Heptachlor	20.3	5.00	ug/Kg wet	25.0		81	40-140			
Heptachlor Epoxide	19.9	5.00	ug/Kg wet	25.0		80	40-140			
Hexachlorobenzene	4.80	5.00	ug/Kg wet	25.0		19	40-140			+
Methoxychlor	18.9	5.00	ug/Kg wet	25.0		76	40-140			
Surrogate: Decachlorobiphenyl	*17.7*		ug/Kg wet	*25.0*		*71*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*16.9*		ug/Kg wet	*25.0*		*68*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*16.4*		ug/Kg wet	*25.0*		*66*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*17.3*		ug/Kg wet	*25.0*		*69*	*30-150*			
LCS Dup										
4,4´-DDD	22.1	5.00	ug/Kg wet	25.0		88	40-140	14	30	
4,4´-DDE	22.0	5.00	ug/Kg wet	25.0		88	40-140	13	30	
4,4´-DDT	20.8	5.00	ug/Kg wet	25.0		83	40-140	18	30	
Aldrin	20.6	5.00	ug/Kg wet	25.0		82	40-140	12	30	
alpha-BHC	20.3	5.00	ug/Kg wet	25.0		81	40-140	18	30	
alpha-Chlordane	22.3	5.00	ug/Kg wet	25.0		89	40-140	13	30	
beta-BHC	25.0	5.00	ug/Kg wet	25.0		100	40-140	19	30	
delta-BHC	13.4	5.00	ug/Kg wet	25.0		54	40-140	13	30	
Dieldrin	22.4	5.00	ug/Kg wet	25.0		90	40-140	13	30	
Endosulfan I	22.3	5.00	ug/Kg wet	25.0		89	40-140	13	30	
Endosulfan II	22.5	5.00	ug/Kg wet	25.0		90	40-140	13	30	
Endosulfan Sulfate	20.7	5.00	ug/Kg wet	25.0		83	40-140	6	30	
Endrin	22.4	5.00	ug/Kg wet	25.0		90	40-140	15	30	
Endrin Aldehyde	20.3	5.00	ug/Kg wet	25.0		81	40-140	12	30	
Endrin Ketone	20.4	5.00	ug/Kg wet	25.0		82	40-140	8	30	
gamma-BHC (Lindane)	21.7	5.00	ug/Kg wet	25.0		87	40-140	15	30	
gamma-Chlordane	25.2	5.00	ug/Kg wet	25.0		101	40-140	11	30	
Heptachlor	23.0	5.00	ug/Kg wet	25.0		92	40-140	12	30	
Heptachlor Epoxide	22.6	5.00	ug/Kg wet	25.0		90	40-140	13	30	

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch BF60923 - 3541										
Hexachlorobenzene	7.28	5.00	ug/Kg wet	25.0		29	40-140	41	30	+
Methoxychlor	19.9	5.00	ug/Kg wet	25.0		80	40-140	5	30	
Surrogate: Decachlorobiphenyl	*20.8*		ug/Kg wet	*25.0*		*83*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*18.8*		ug/Kg wet	*25.0*		*75*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*18.0*		ug/Kg wet	*25.0*		*72*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*18.9*		ug/Kg wet	*25.0*		*76*	*30-150*			
Batch BF61216 - 3510C										
Blank										
4,4'-DDD	ND	0.05	ug/L							
4,4'-DDE	ND	0.05	ug/L							
4,4'-DDT	ND	0.05	ug/L							
Aldrin	ND	0.05	ug/L							
alpha-BHC	ND	0.05	ug/L							
alpha-Chlordane	ND	0.05	ug/L							
beta-BHC	ND	0.05	ug/L							
Chlordane (Total)	ND	0.50	ug/L							
delta-BHC	ND	0.05	ug/L							
Dieldrin	ND	0.05	ug/L							
Endosulfan I	ND	0.05	ug/L							
Endosulfan II	ND	0.05	ug/L							
Endosulfan Sulfate	ND	0.05	ug/L							
Endrin	ND	0.05	ug/L							
Endrin Aldehyde	ND	0.05	ug/L							
Endrin Ketone	ND	0.05	ug/L							
gamma-BHC (Lindane)	ND	0.05	ug/L							
gamma-Chlordane	ND	0.05	ug/L							
Heptachlor	ND	0.05	ug/L							
Heptachlor Epoxide	ND	0.05	ug/L							
Hexachlorobenzene	ND	0.05	ug/L							
Methoxychlor	ND	0.05	ug/L							
Toxaphene	ND	2.50	ug/L							
Surrogate: Decachlorobiphenyl	*0.345*		ug/L	*0.250*		*138*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.345*		ug/L	*0.250*		*138*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.241*		ug/L	*0.250*		*96*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.233*		ug/L	*0.250*		*93*	*30-150*			
LCS										
4,4'-DDD	0.26	0.05	ug/L	0.250		104	40-140			
4,4'-DDE	0.26	0.05	ug/L	0.250		104	40-140			
4,4'-DDT	0.27	0.05	ug/L	0.250		108	40-140			
Aldrin	0.25	0.05	ug/L	0.250		100	40-140			
alpha-BHC	0.24	0.05	ug/L	0.250		96	40-140			
alpha-Chlordane	0.26	0.05	ug/L	0.250		104	40-140			
beta-BHC	0.26	0.05	ug/L	0.250		104	40-140			
delta-BHC	0.15	0.05	ug/L	0.250		60	40-140			
Dieldrin	0.27	0.05	ug/L	0.250		108	40-140			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch BF61216 - 3510C										
Endosulfan I	0.26	0.05	ug/L	0.250		104	40-140			
Endosulfan II	0.26	0.05	ug/L	0.250		104	40-140			
Endosulfan Sulfate	0.24	0.05	ug/L	0.250		96	40-140			
Endrin	0.25	0.05	ug/L	0.250		100	40-140			
Endrin Aldehyde	0.24	0.05	ug/L	0.250		96	40-140			
Endrin Ketone	0.25	0.05	ug/L	0.250		100	40-140			
gamma-BHC (Lindane)	0.25	0.05	ug/L	0.250		100	40-140			
gamma-Chlordane	0.26	0.05	ug/L	0.250		104	40-140			
Heptachlor	0.27	0.05	ug/L	0.250		108	40-140			
Heptachlor Epoxide	0.26	0.05	ug/L	0.250		104	40-140			
Hexachlorobenzene	0.17	0.05	ug/L	0.250		68	40-140			
Methoxychlor	0.26	0.05	ug/L	0.250		104	40-140			
Surrogate: Decachlorobiphenyl	*0.326*		ug/L	*0.250*		*130*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.333*		ug/L	*0.250*		*133*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.222*		ug/L	*0.250*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.226*		ug/L	*0.250*		*90*	*30-150*			
LCS Dup										
4,4´-DDD	0.29	0.05	ug/L	0.250		116	40-140	11	30	
4,4´-DDE	0.29	0.05	ug/L	0.250		116	40-140	11	30	
4,4´-DDT	0.32	0.05	ug/L	0.250		128	40-140	17	30	
Aldrin	0.29	0.05	ug/L	0.250		116	40-140	15	30	
alpha-BHC	0.27	0.05	ug/L	0.250		108	40-140	12	30	
alpha-Chlordane	0.29	0.05	ug/L	0.250		116	40-140	11	30	
beta-BHC	0.30	0.05	ug/L	0.250		120	40-140	14	30	
delta-BHC	0.18	0.05	ug/L	0.250		72	40-140	18	30	
Dieldrin	0.30	0.05	ug/L	0.250		120	40-140	11	30	
Endosulfan I	0.30	0.05	ug/L	0.250		120	40-140	14	30	
Endosulfan II	0.30	0.05	ug/L	0.250		120	40-140	14	30	
Endosulfan Sulfate	0.27	0.05	ug/L	0.250		108	40-140	12	30	
Endrin	0.29	0.05	ug/L	0.250		116	40-140	15	30	
Endrin Aldehyde	0.27	0.05	ug/L	0.250		108	40-140	12	30	
Endrin Ketone	0.30	0.05	ug/L	0.250		120	40-140	18	30	
gamma-BHC (Lindane)	0.29	0.05	ug/L	0.250		116	40-140	15	30	
gamma-Chlordane	0.29	0.05	ug/L	0.250		116	40-140	11	30	
Heptachlor	0.31	0.05	ug/L	0.250		124	40-140	14	30	
Heptachlor Epoxide	0.30	0.05	ug/L	0.250		120	40-140	14	30	
Hexachlorobenzene	0.19	0.05	ug/L	0.250		76	40-140	11	30	
Methoxychlor	0.31	0.05	ug/L	0.250		124	40-140	18	30	
Surrogate: Decachlorobiphenyl	*0.373*		ug/L	*0.250*		*149*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.375*		ug/L	*0.250*		*150*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.245*		ug/L	*0.250*		*98*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.251*		ug/L	*0.250*		*100*	*30-150*			
8082 Polychlorinated Biphenyls (PCB)										
Batch BF60923 - 3541										

Pesticides
Calibration Data

ANALYSIS SEQUENCE

BPG0220

Instrument: SVOAGC3

Calibnration ID: ~~UNASSIGNED~~ 8081EC

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0220-PEM1	QC		1		6E02036		
BPG0220-CAL1	QC		2		6E30081		
BPG0220-CAL2	QC		3		6E30082		
BPG0220-CAL3	QC		4		6E30083		
BPG0220-CAL4	QC		5		6E30084		
BPG0220-CAL5	QC		6		6E30085		
BPG0220-CAL6	QC		7		6E30086		
BPG0220-CAL7	QC		8		6E30087		
BPG0220-SCV1	QC		9		6E30089		
BPG0220-CAL8	QC		10		6E30090		
BPG0220-SCV2	QC		11		6E30091		
BPG0220-CAL9	QC		12		6B16090		
BPG0220-SCV3	QC		13		6B16094		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/9/06	1	6E0609Ø6-1	Prime	8081EC		SR
	2	2	PEM ✓		10:04 AM	
	3	3	Pest 5 ppb ✓		6E30081 CAL1	
	4	4	10 ppb ✓		082 2	
	5	5	20 ppb ✓		083 3	
	6	6	50 ppb ✓		084 4	
	7	7	60 ppb ✓		085 5	
	8	8	80 ppb ✓		086 6	
	9	9	100 ppb ✓		087 7	
	10	10	SS		088	
	11	11	Pest SS ✓		089 SCV1 02:17 PM	
	12	12	Chlordane ✓		090 CAL 8	
	13	13	Chlordane SS ✓		6E30091 SCV 2	
	14	14	Toxaphene ✓		6816090 CAL 9	
	15	15	Toxaphene SS ✓	8081/EC	6816094 SCV 3	
			Prime			
			PEM			
			Pest 5 ppb			
			10 ppb			
			20 ppb			
			50 ppb		SR	
			60 ppb			
			80 ppb			
			100 ppb			
			SS			
			Pest SS			

CONTROL NUMBER 60.0012-0601A

PAGE_____

045

Response Factor Report GC3

Method : Q:\SVOA\GC3_GE\METHODS\8081EC.M
Title :
Last Update : Fri Jun 09 14:29:36 2006
Response via : Initial Calibration

Calibration Files
10 =004F0101.D 20 =005F0101.D 5 =003F0101.D
60 =007F0101.D 80 =008F0101.D 100 =009F0101.D

		Compound	10	20	5	60	80	100	Avg		%RSD
1)	S	Tetrachloro-m-xylen	60.8	55.7	58.8	64.5	61.9	58.5	59.9	E3	4.72
2)	M	Hexachlorobenzene	106.0	95.4	102.7	100.4	95.8	88.6	97.9	E3	5.82
3)	M	alpha-BHC	54.5	53.0	51.1	71.2	71.0	67.4	61.8	E3	14.10
4)	M	gamma-BHC (Lindane)	53.8	51.9	50.5	66.3	65.4	62.3	58.7	E3	11.15
5)	M	beta-BHC	31.8	30.0	29.6	35.4	34.5	32.7	32.4	E3	6.56
6)	M	delta-BHC	48.6	46.7	44.2	65.3	65.2	62.0	55.9	E3	16.32
7)	M	Heptachlor	58.1	54.4	54.6	65.3	64.1	60.7	59.6	E3	7.14
8)	M	Aldrin	49.8	47.2	47.6	58.5	57.6	54.9	52.7	E3	8.78
9)	M	Heptachlor Epoxide	50.0	46.2	48.3	54.8	53.7	50.8	50.6	E3	5.80
10)	M	gamma-Chlordane	51.7	47.7	48.8	56.1	54.8	51.8	51.8	E3	5.74
11)	M	alpha-Chlordane	52.6	47.6	51.6	54.1	52.5	49.5	51.2	E3	4.29
12)	M	4,4'-DDE	48.4	44.3	46.9	53.2	52.1	49.2	49.0	E3	6.12
13)	M	Endosulfan I	48.3	44.8	46.1	53.4	52.6	50.0	49.2	E3	6.39
14)	M	Dieldrin	44.1	41.2	42.1	50.7	50.2	47.9	46.1	E3	8.16
15)	M	Endrin	38.7	35.5	36.4	44.0	43.1	40.9	39.8	E3	7.99
16)	M	4,4'-DDD	37.7	35.1	35.2	45.2	44.9	43.1	40.3	E3	10.79
17)	M	Endosulfan II	43.7	40.1	41.4	47.7	46.6	44.3	43.9	E3	6.09
18)	M	4,4'-DDT	42.1	35.6	40.7	45.0	44.5	42.8	41.9	E3	7.47
19)	M	Endrin Aldehyde	41.4	36.7	37.0	42.0	40.1	38.1	39.2	E3	5.25
20)	M	Methoxychlor	24.8	22.9	20.5	28.1	26.8	25.6	24.9	E3	10.15
21)	M	Endosulfan Sulfate	41.5	39.1	44.8	44.9	44.0	41.5	42.6	E3	4.99
22)	M	Endrin Ketone	63.5	54.3	55.5	60.6	57.5	54.7	57.5	E3	5.90
23)	S	Decachlorobiphenyl	46.2	41.1	43.9	47.1	44.4	42.0	44.1	E3	4.78

Signal #2 Calibration Files
10 =004R0101.D 20 =005R0101.D 5 =003R0101.D
60 =007R0101.D 80 =008R0101.D 100 =009R0101.D

		Compound	10	20	5	60	80	100	Avg		%RSD
1)	S	Tetrachloro-m-xylen	19.5	18.5	19.5	22.8	22.4	21.3	20.7	E3	7.80
2)	M	Hexachlorobenzene	37.7	32.6	35.8	38.4	37.7	35.2	36.1	E3	5.49
3)	M	alpha-BHC	16.9	17.2	16.6	26.5	27.6	26.7	22.1	E3	22.82
4)	M	gamma-BHC (Lindane)	18.3	18.2	18.1	25.7	26.0	24.9	22.1	E3	16.76
5)	M	beta-BHC	12.7	11.0	11.8	13.5	13.4	12.8	12.5	E3	7.26
6)	M	delta-BHC	16.8	16.5	15.9	24.2	24.6	23.8	20.5	E3	19.26
7)	M	Heptachlor	19.1	18.1	18.3	22.5	22.8	22.0	20.4	E3	9.90
8)	M	Aldrin	18.5	17.8	18.8	23.5	23.7	22.9	20.9	E3	12.06
9)	M	Heptachlor Epoxide	19.7	18.4	20.3	22.5	22.3	21.4	20.7	E3	7.06
10)	M	gamma-Chlordane	20.8	19.3	20.2	23.4	23.2	22.1	21.5	E3	7.07
11)	M	alpha-Chlordane	20.1	18.9	19.5	22.9	22.6	21.5	20.9	E3	7.08
12)	M	4,4'-DDE	18.0	17.1	17.8	22.0	21.9	21.0	19.6	E3	10.51
13)	M	Endosulfan I	17.8	16.8	16.2	21.0	20.9	20.0	18.8	E3	10.24
14)	M	Dieldrin	17.4	16.4	17.6	21.1	21.1	20.4	19.0	E3	10.16
15)	M	Endrin	12.9	12.4	13.9	14.9	15.0	14.5	13.9	E3	7.28
16)	M	4,4'-DDD	14.2	13.8	15.2	17.7	17.6	17.0	15.9	E3	10.03
17)	M	Endosulfan II	19.0	16.5	20.4	20.2	20.1	19.3	19.2	E3	7.01
18)	M	4,4'-DDT	11.2	10.6	10.1	14.5	14.7	14.5	12.6	E3	15.87
19)	M	Endrin Aldehyde	16.2	15.3	16.7	17.8	17.3	16.5	16.6	E3	4.88
20)	M	Methoxychlor	7.8	7.2	7.1	9.6	9.5	9.2	8.4	E3	12.38
21)	M	Endosulfan Sulfate	16.4	15.2	16.9	18.9	18.4	17.7	17.2	E3	7.14
22)	M	Endrin Ketone	21.4	19.5	21.8	25.6	24.9	24.0	22.9	E3	9.35
23)	S	Decachlorobiphenyl	20.5	18.3	20.6	21.1	20.0	19.0	19.8	E3	4.97

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE060906\002F0101.D Vial: 2
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE060906\002F0101.D\002R0101.D
Acq On : 09 Jun 06 10:04 AM Operator: [GC]2R0101.D\DATA.MS
Sample : PEM Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 9 14:46 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EC.M
Title :
Last Update : Fri Jun 09 14:29:36 2006
Response via : Multiple Level Calibration

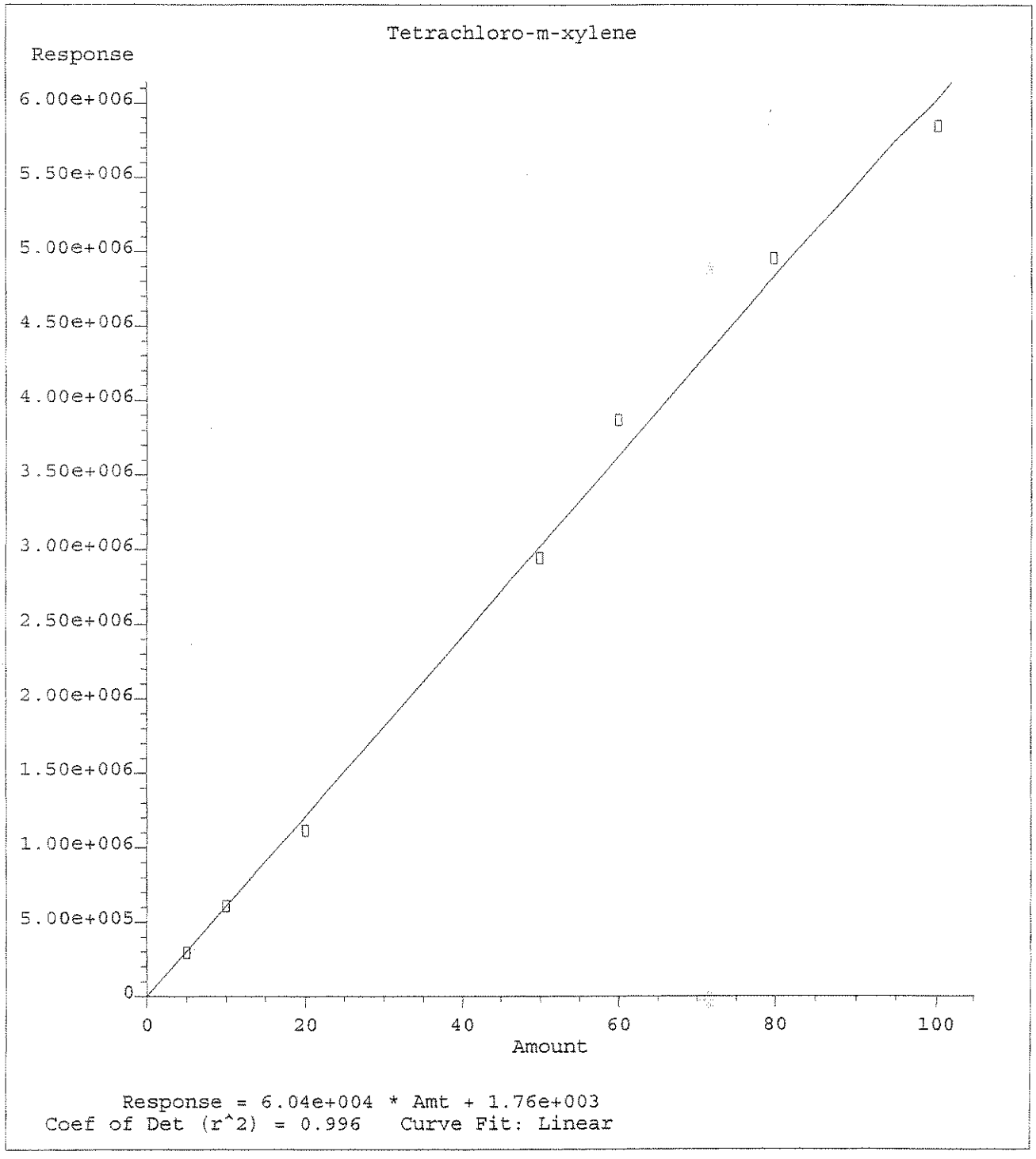
Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.74	8.86	2283406	780504	37.794	36.526
					Recovery	=	75.59%	73.05%
23)	S	Decachlorobiphenyl	18.25	20.95	1441470	654704	32.613	33.022
					Recovery	=	65.23%	66.04%
		Target Compounds						
2)	M	Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3)	M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	M	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
5)	M	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6)	M	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	M	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
8)	M	Aldrin	0.00	0.00	0	0	N.D.	N.D.
9)	M	Heptachlor Epoxide	0.00	0.00	0	0	N.D.	N.D.
10)	M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12)	M	4,4'-DDE	13.18	14.57	2365	1759	0.741m	2.269m#
13)	M	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
14)	M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15)	M	Endrin	14.14	15.46	3811998	1398997	90.870m	95.506m
16)	M	4,4'-DDD	14.24	15.58	57708	104302	3.416m	8.185m#
17)	M	Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18)	M	4,4'-DDT	14.69	16.09	3735996	1304142	85.759	90.341
19)	M	Endrin Aldehyde	15.24	16.38	15309	17111	0.005m	1.445m#
20)	M	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	M	Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22)	M	Endrin Ketone	16.43	17.98	50515	11062	N.D.m	2.081m

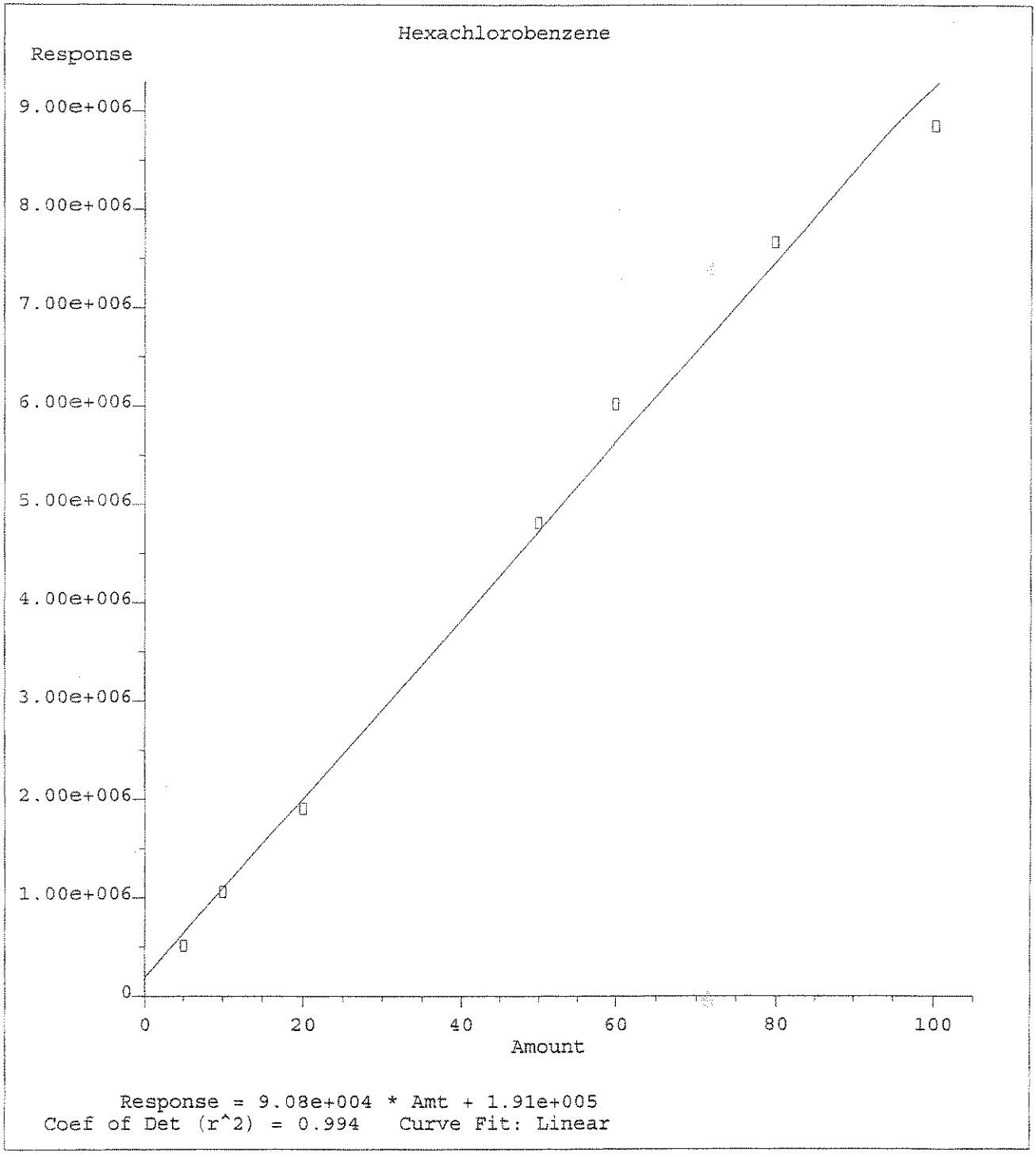
Σ $\frac{65824}{3877822} = 1.70\%$ DDT $\frac{60073}{3796069} = 1.58\%$

Σ $\frac{28173}{1427170} = 1.97\%$ DDT $\frac{106061}{1410203} = 7.52\%$

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EC.M
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006



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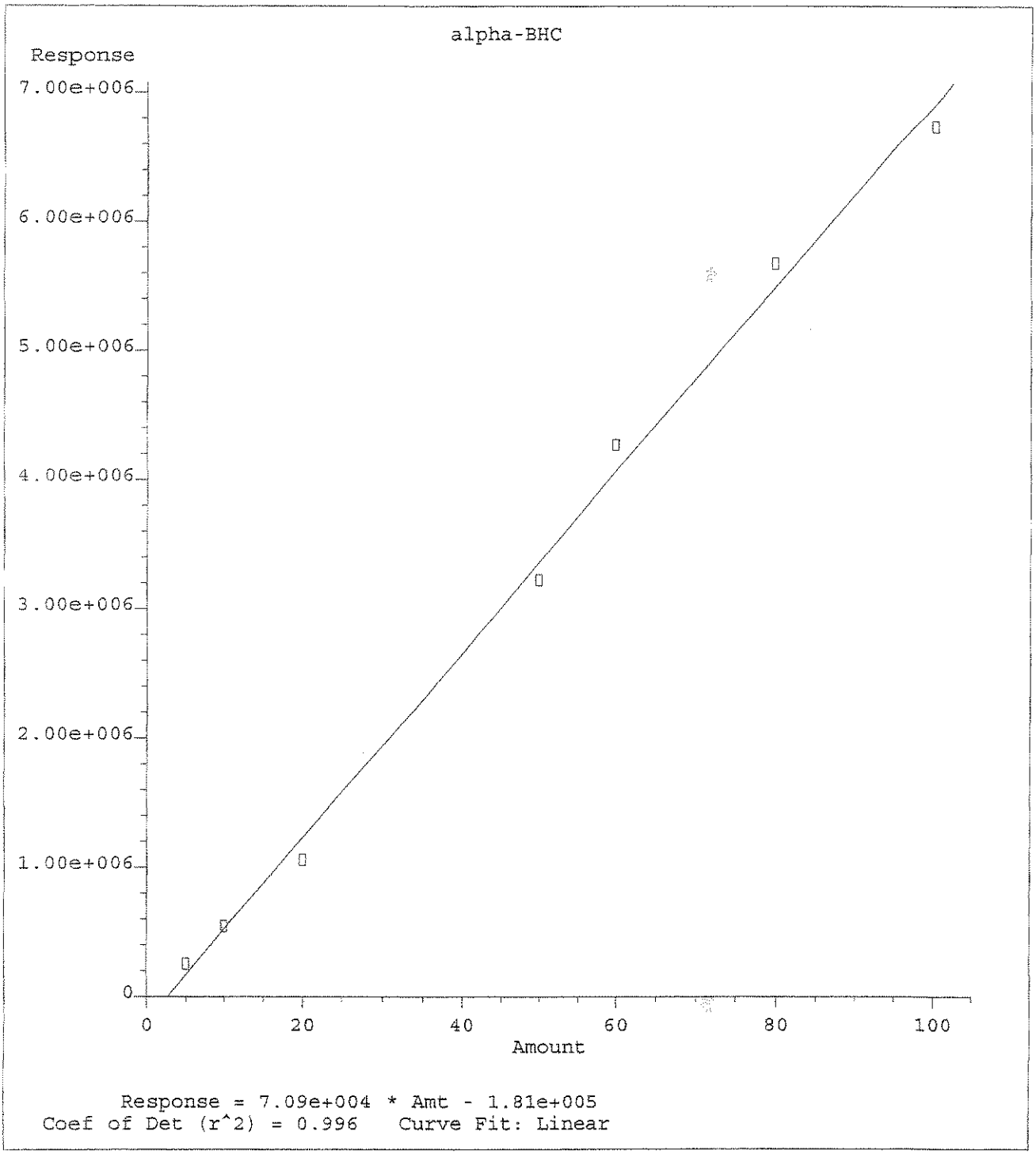
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006



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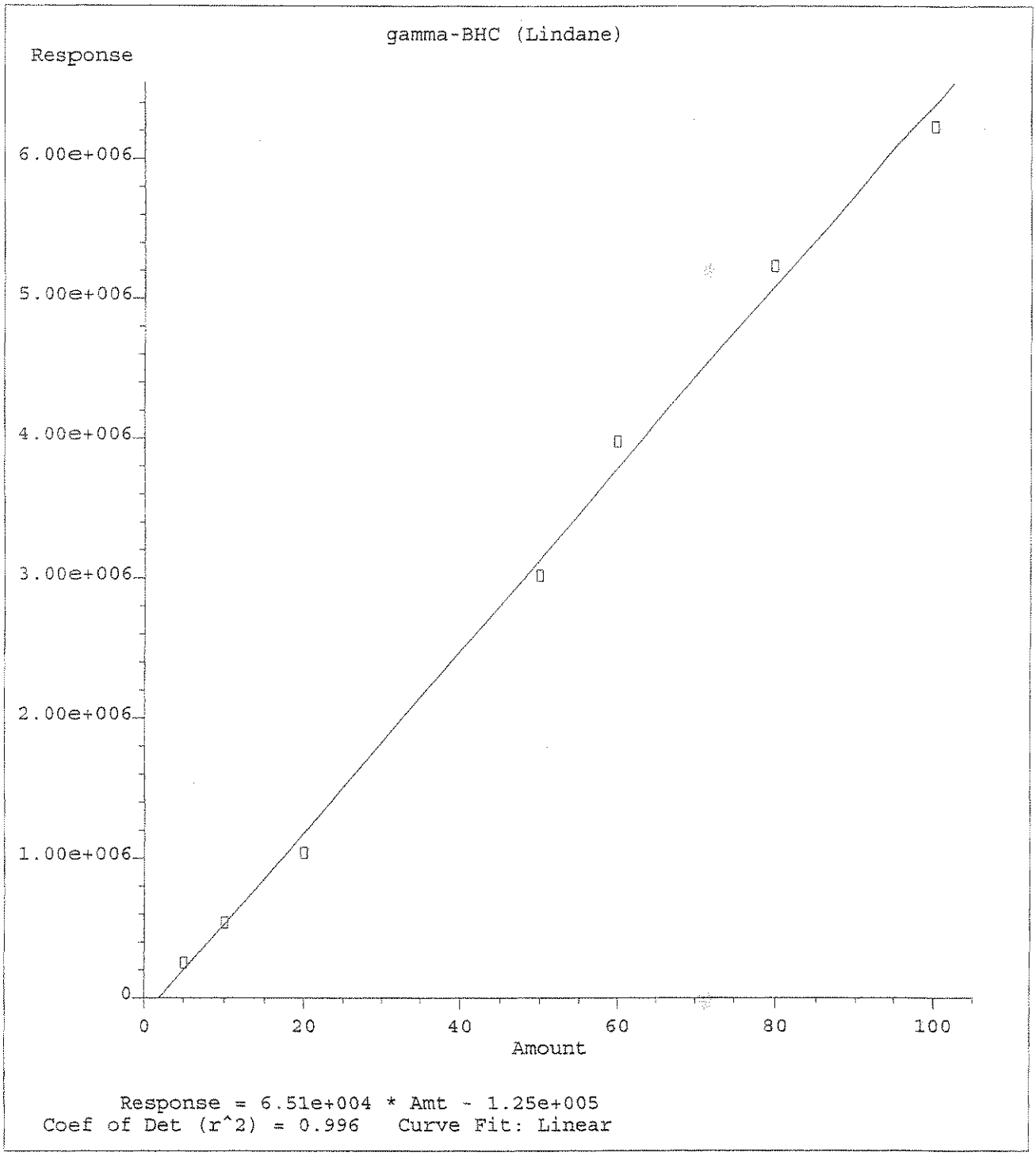
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006



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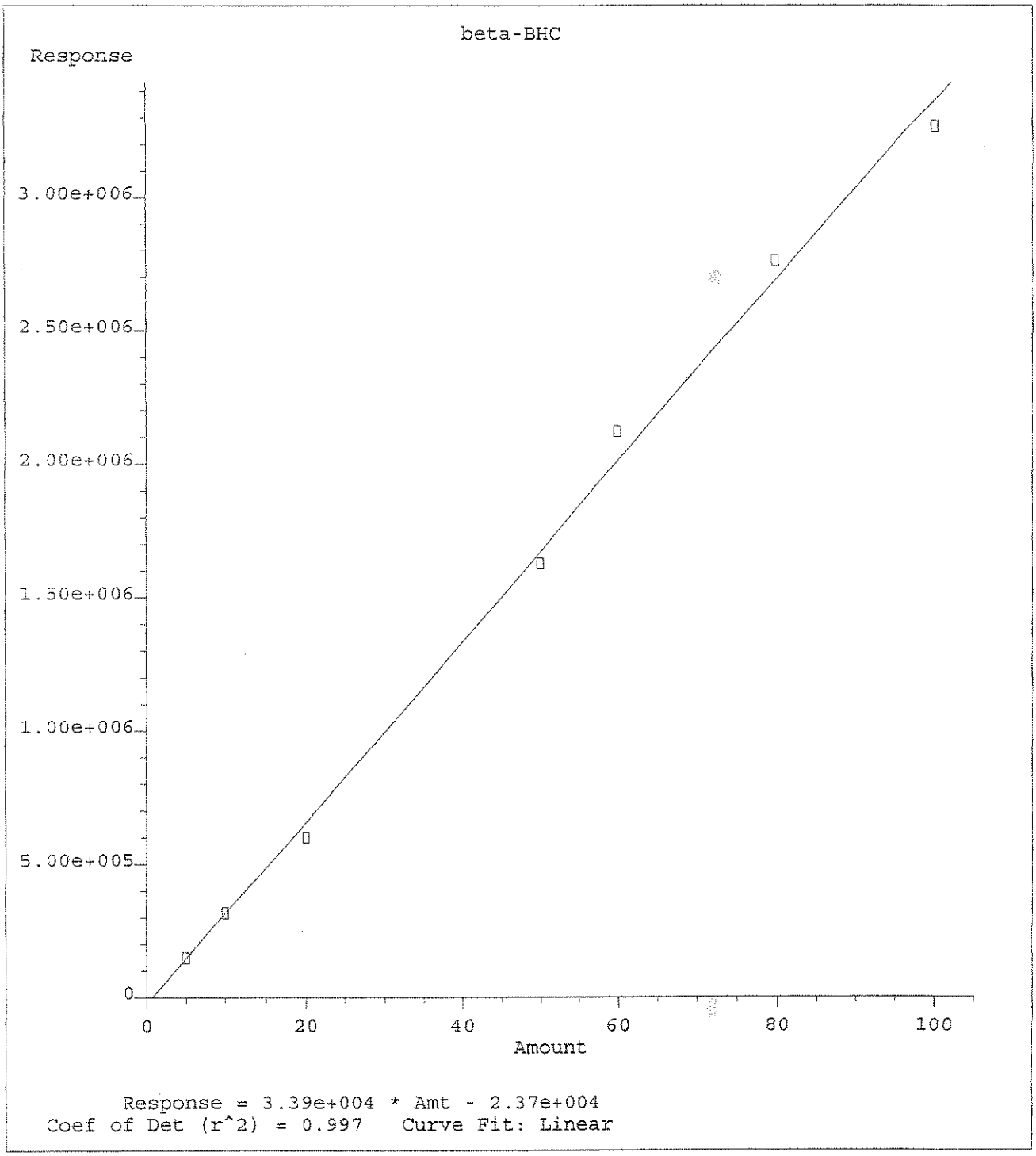
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006



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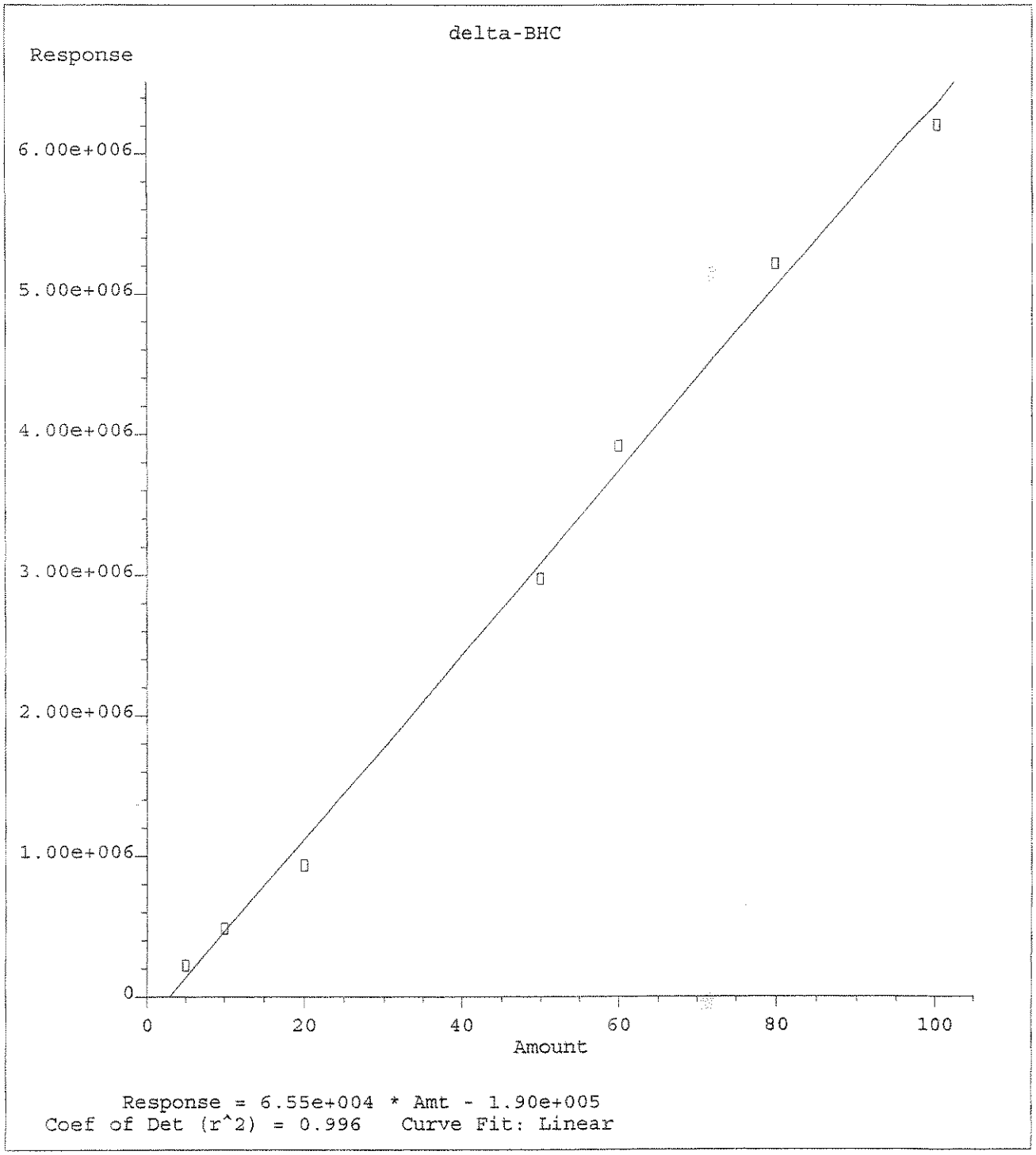

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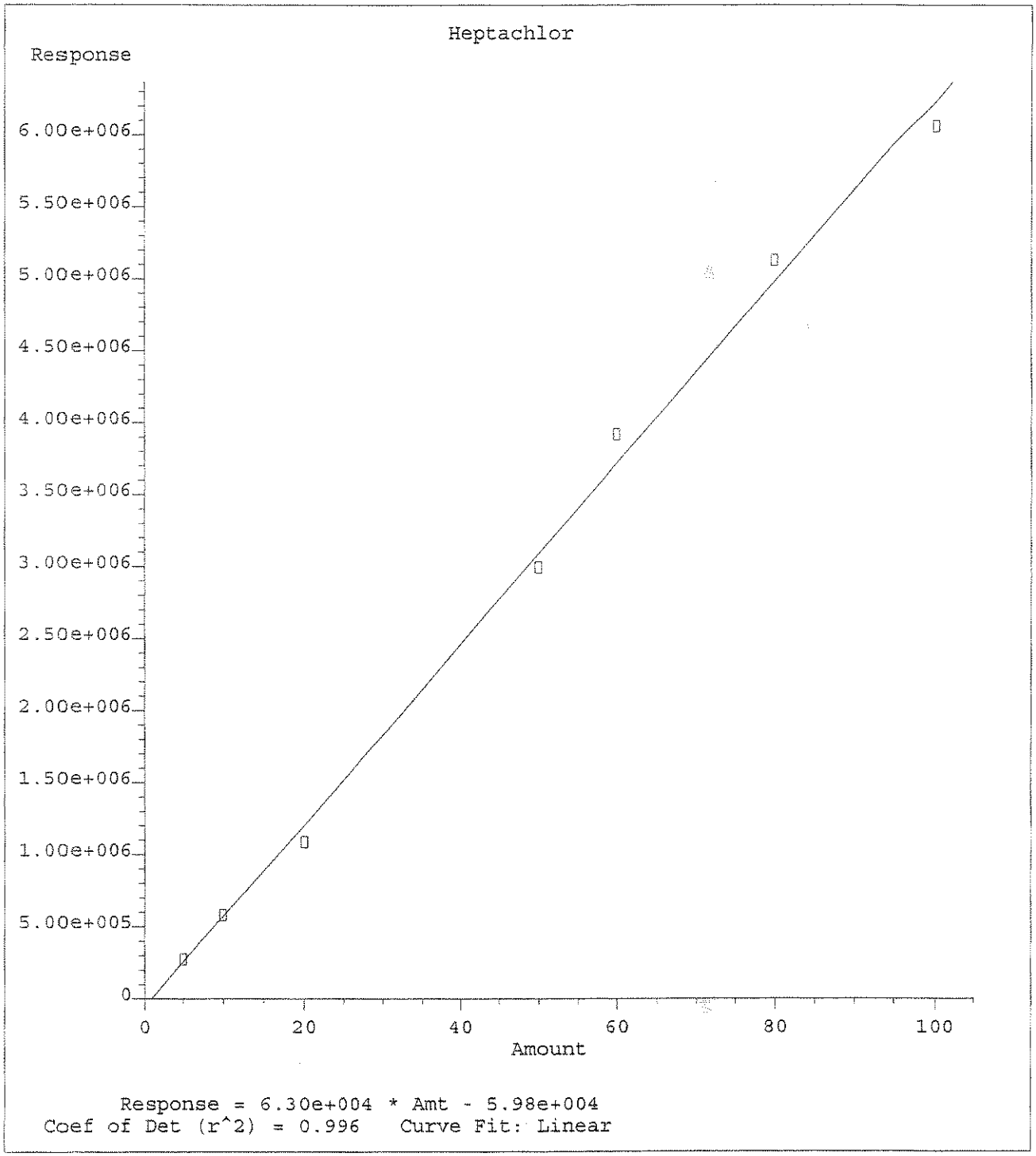

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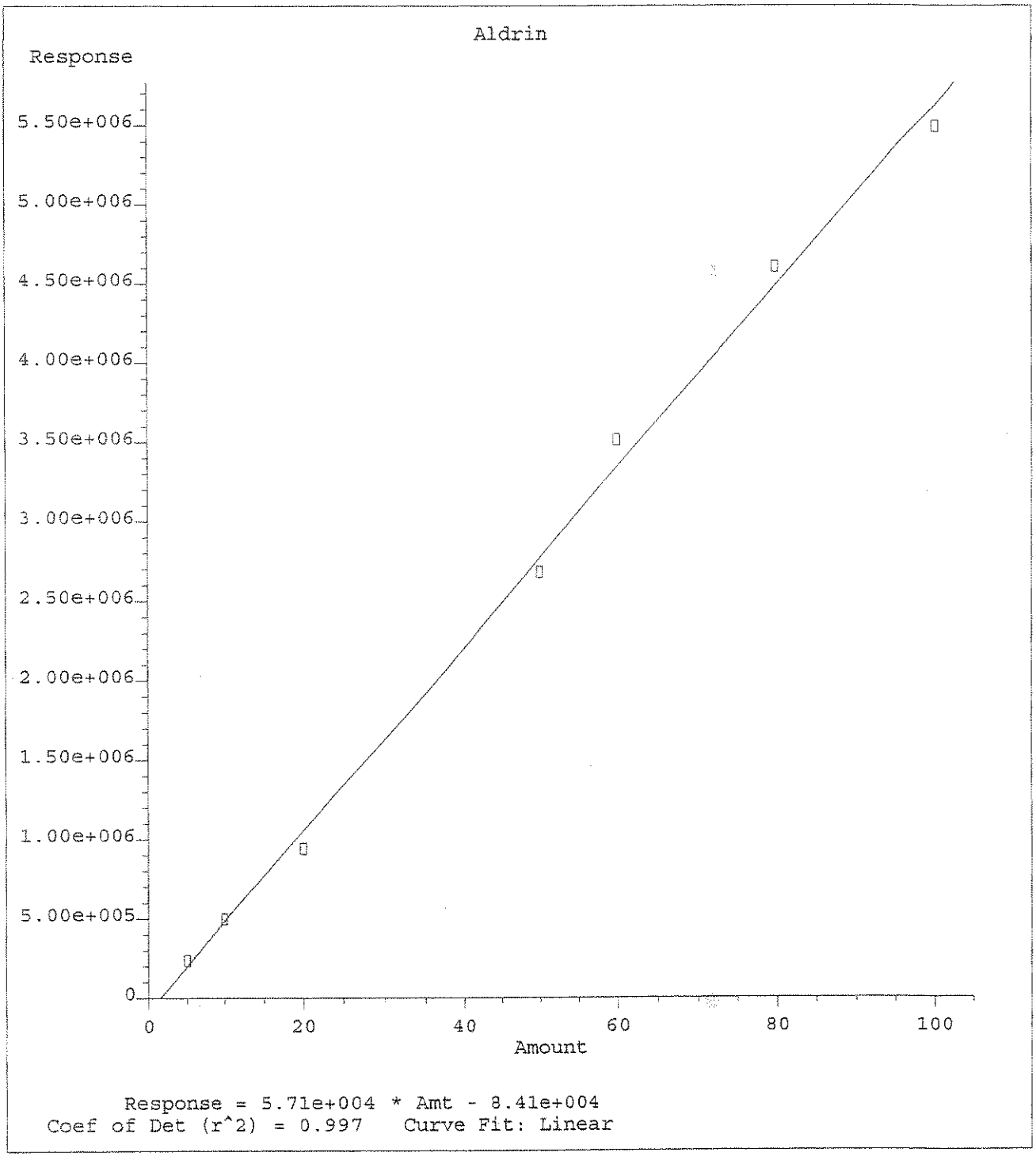

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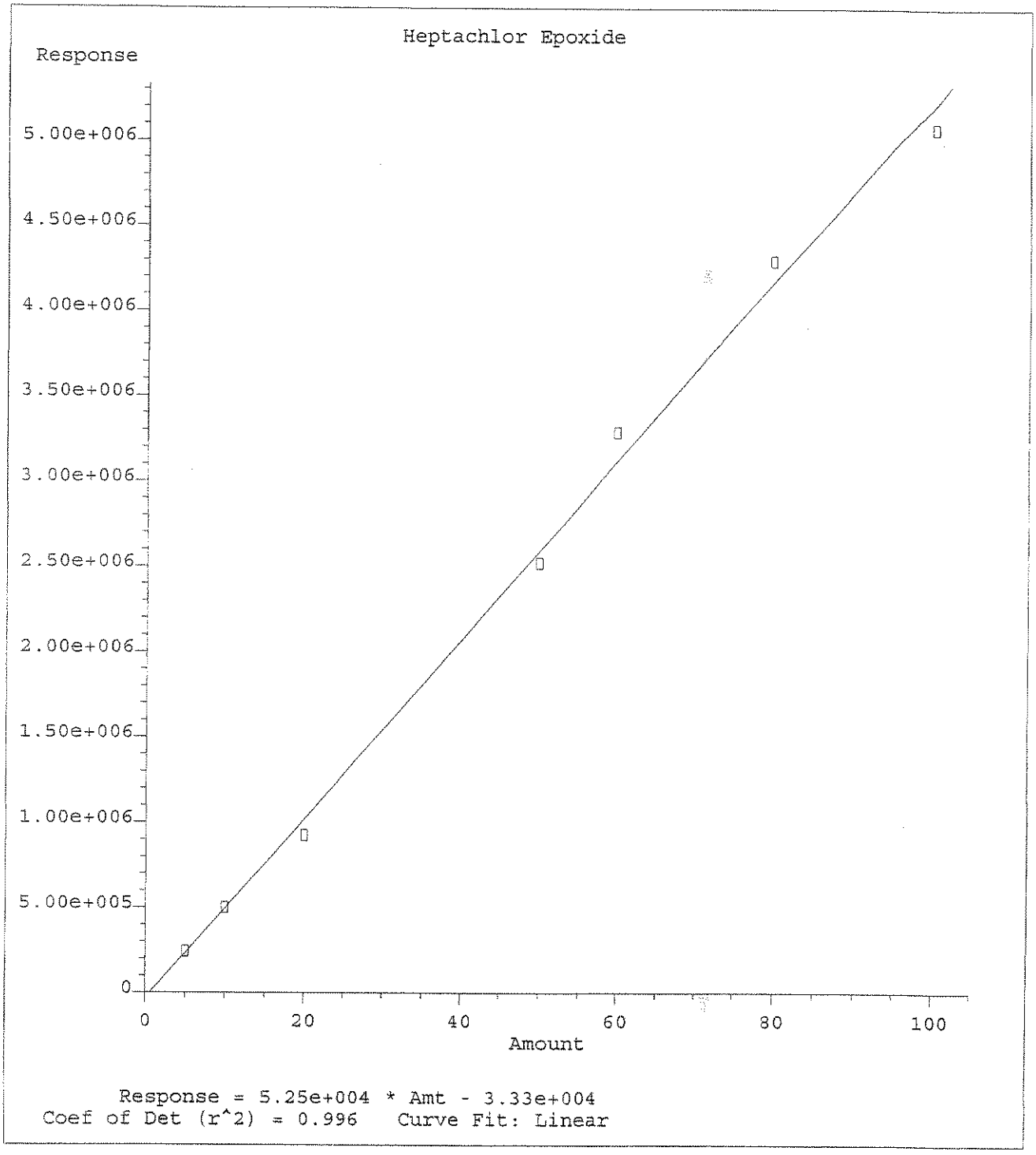

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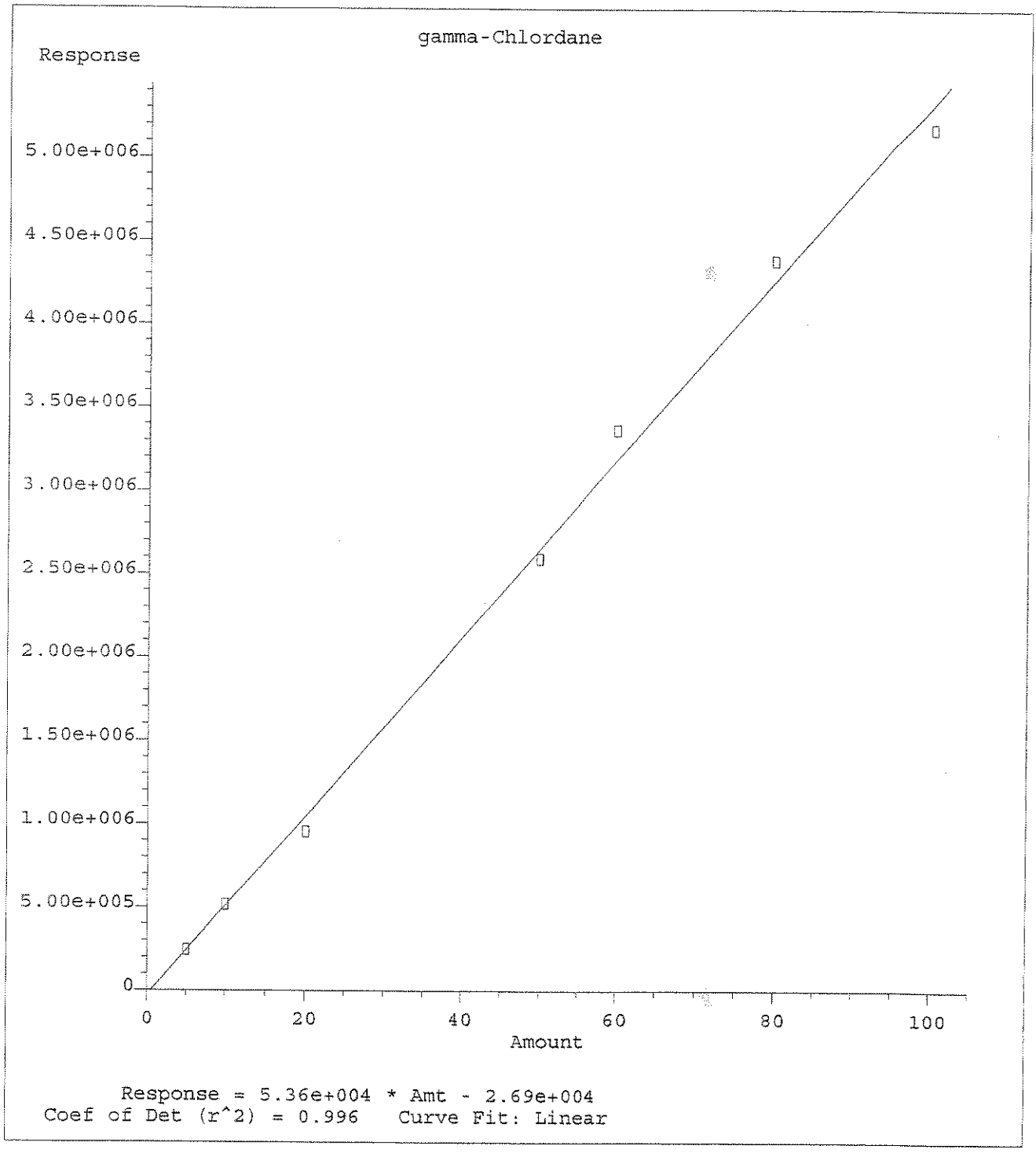

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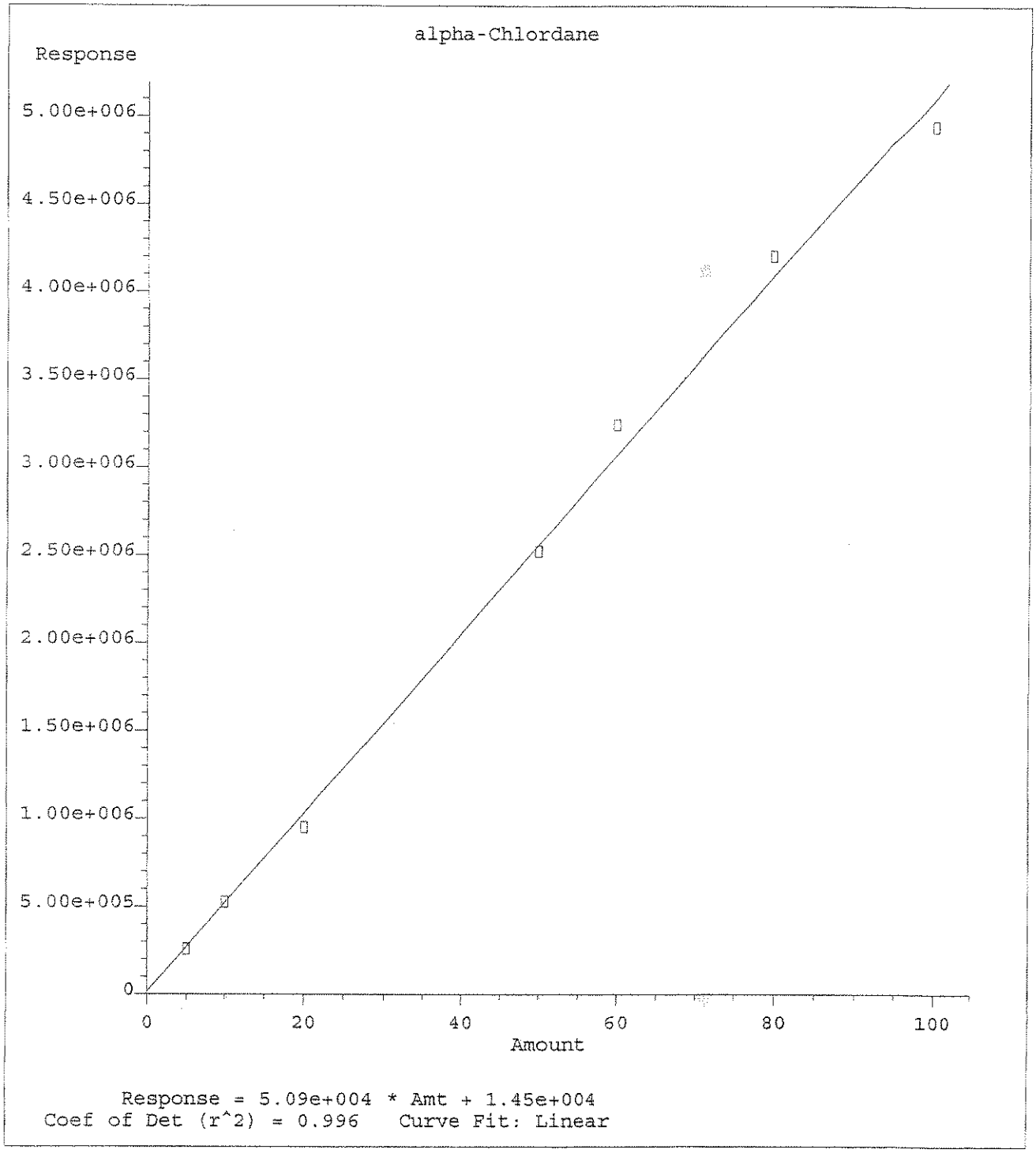

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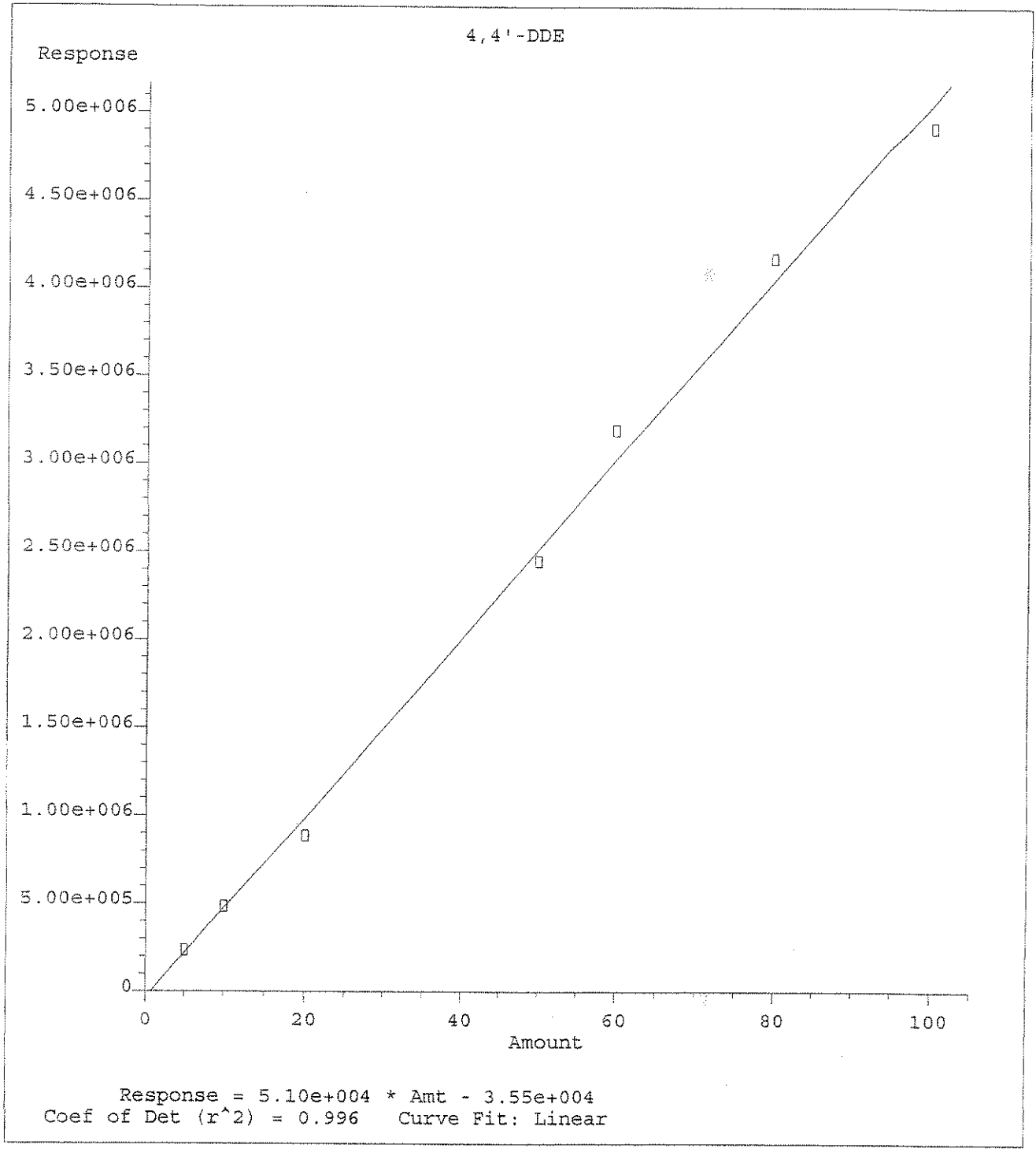

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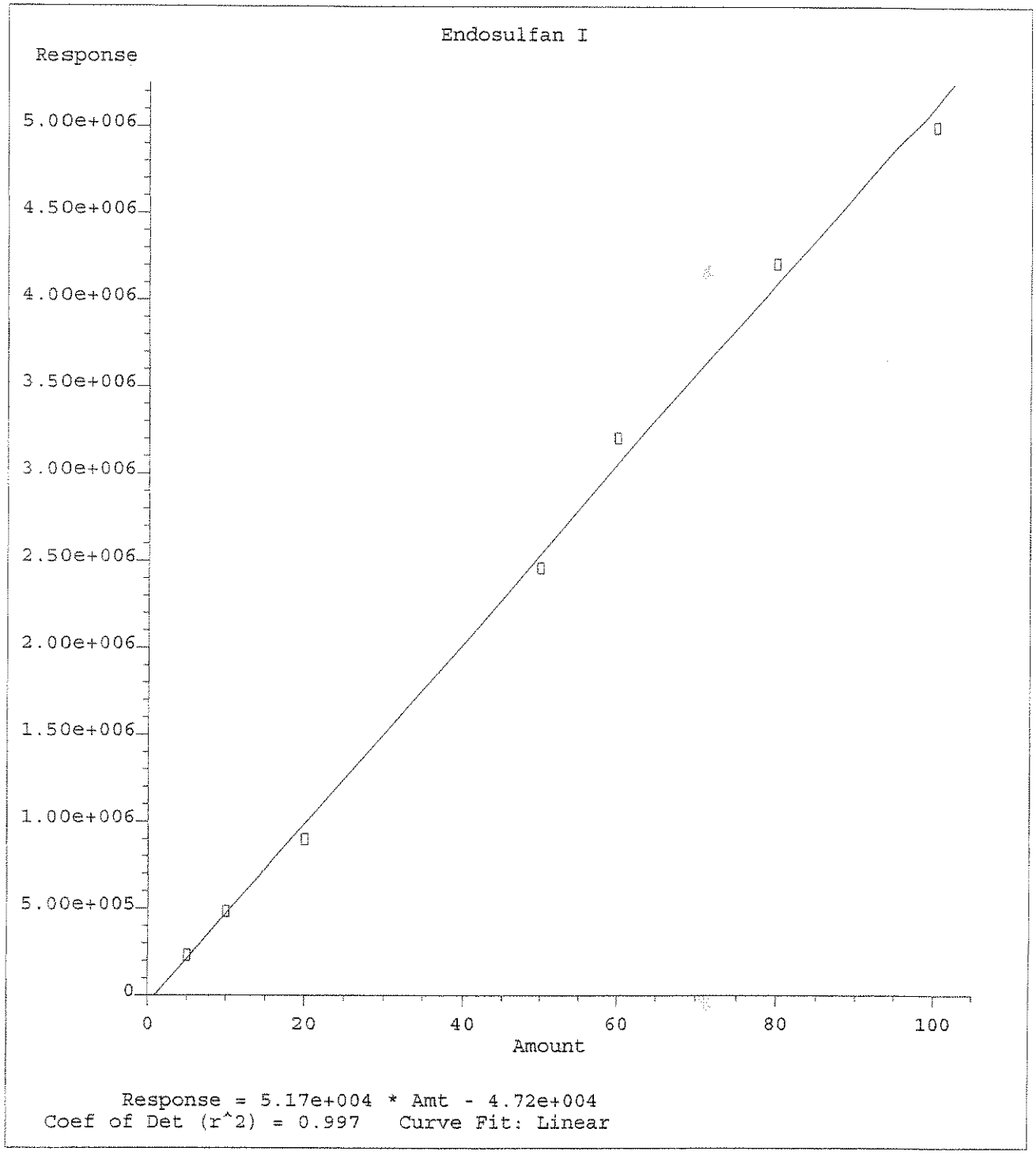

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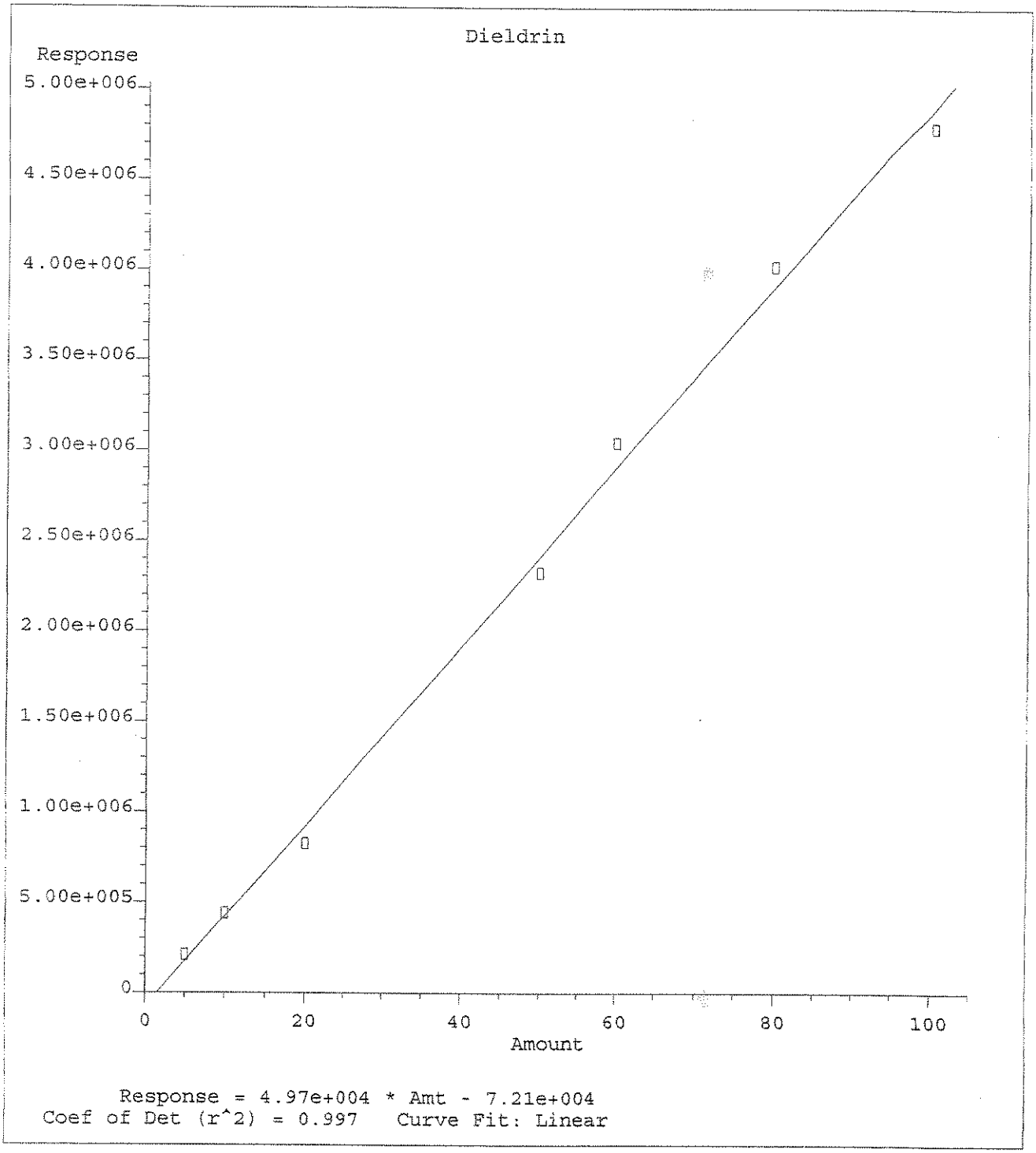

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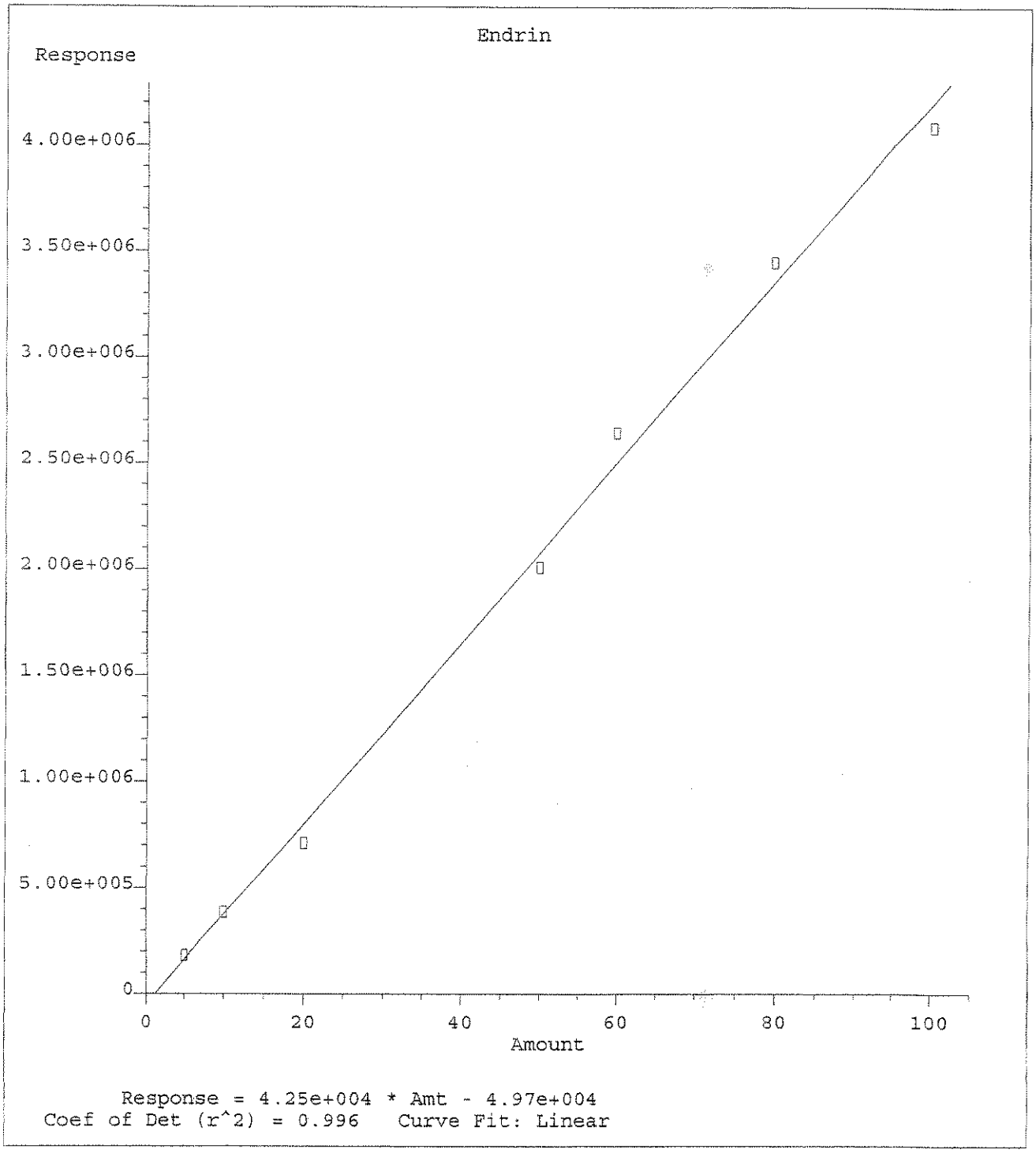

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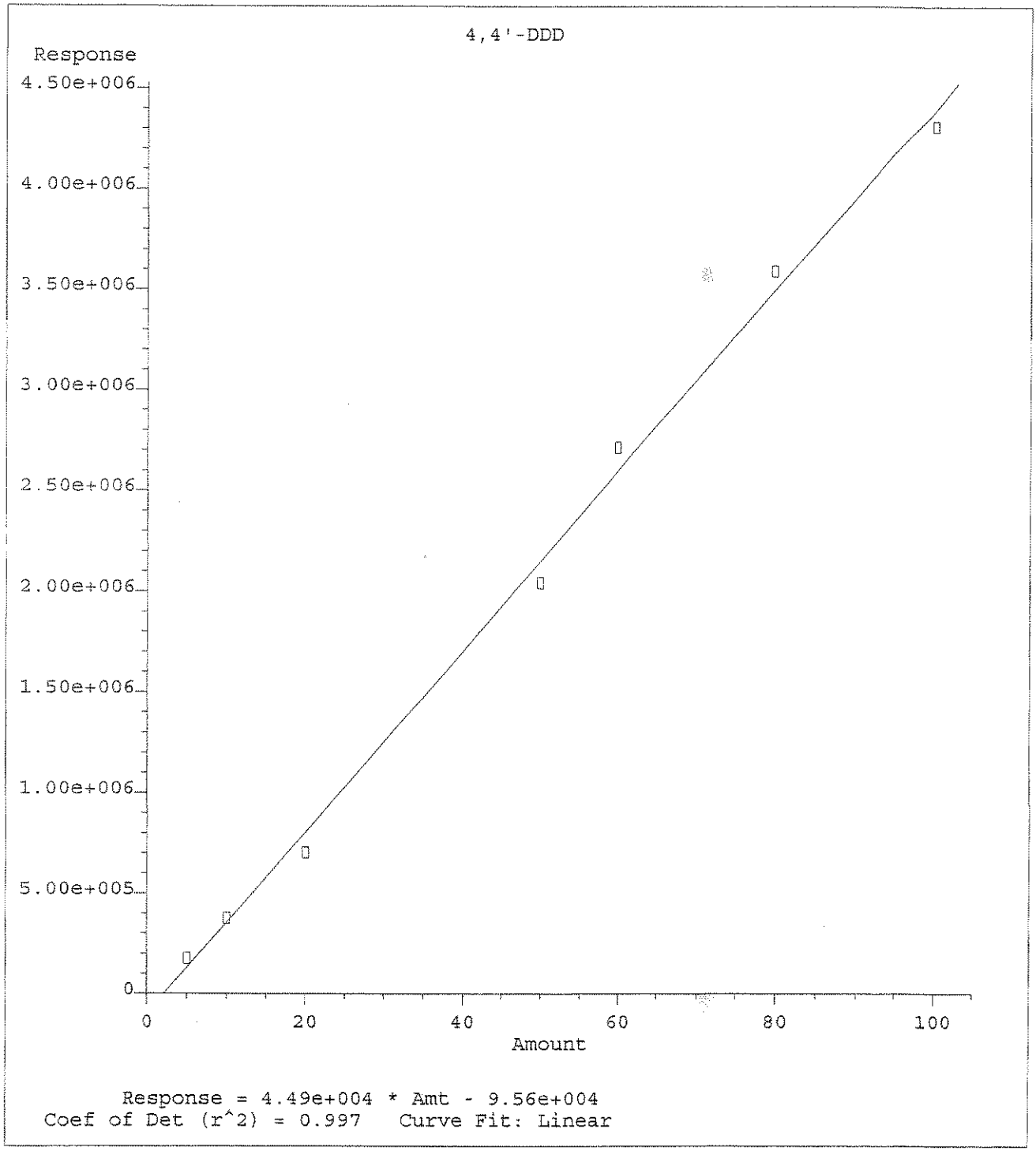

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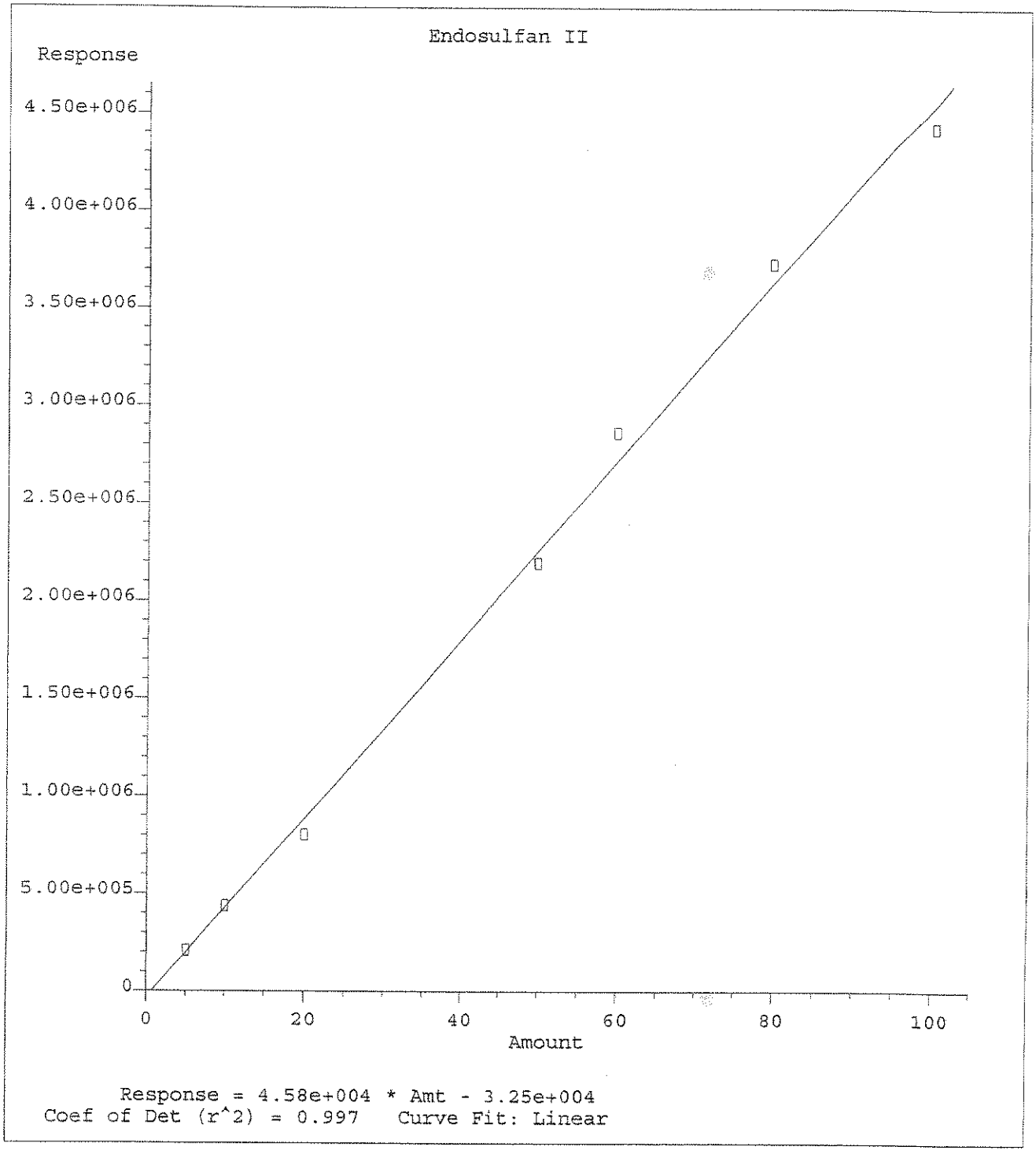

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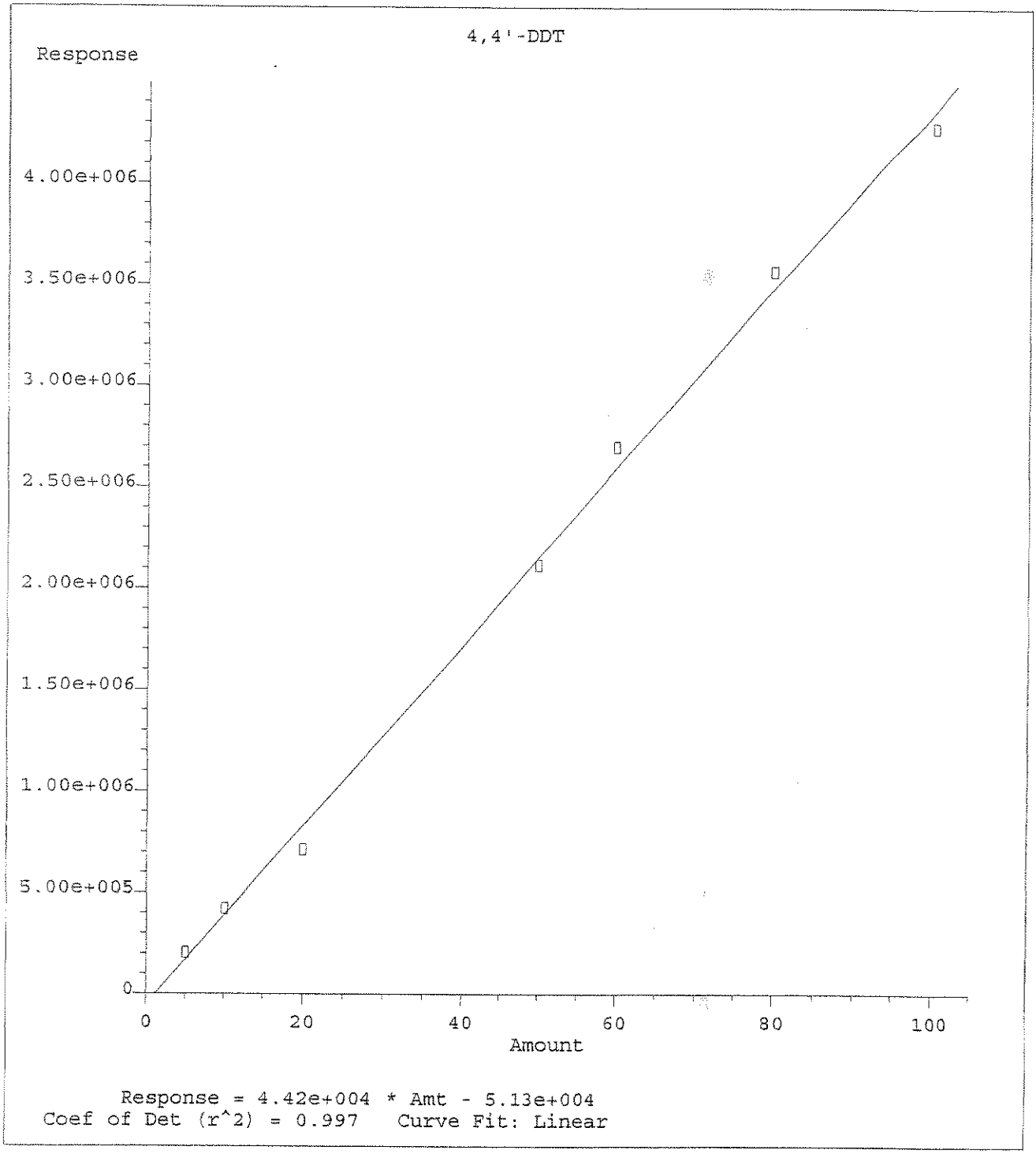

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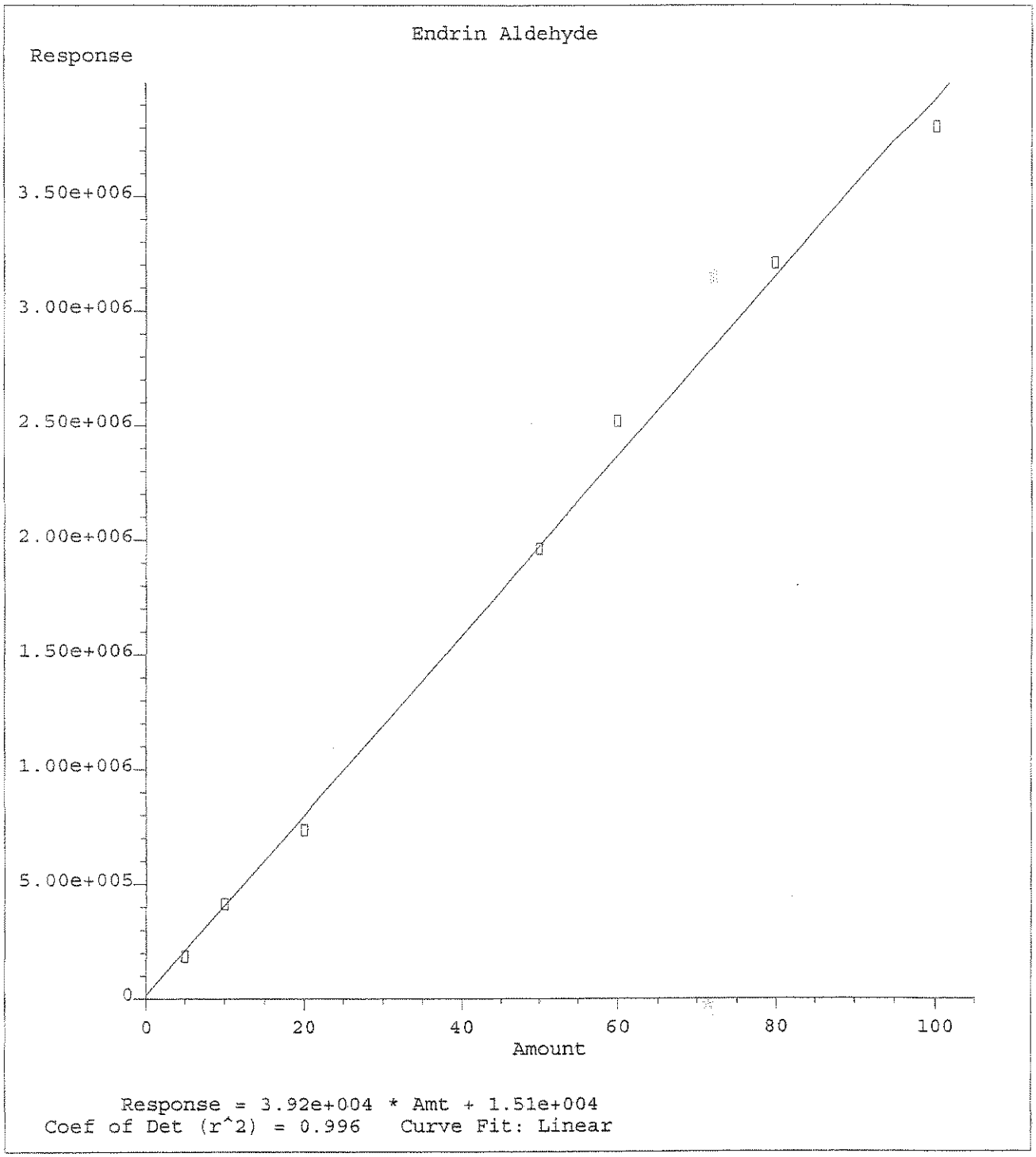

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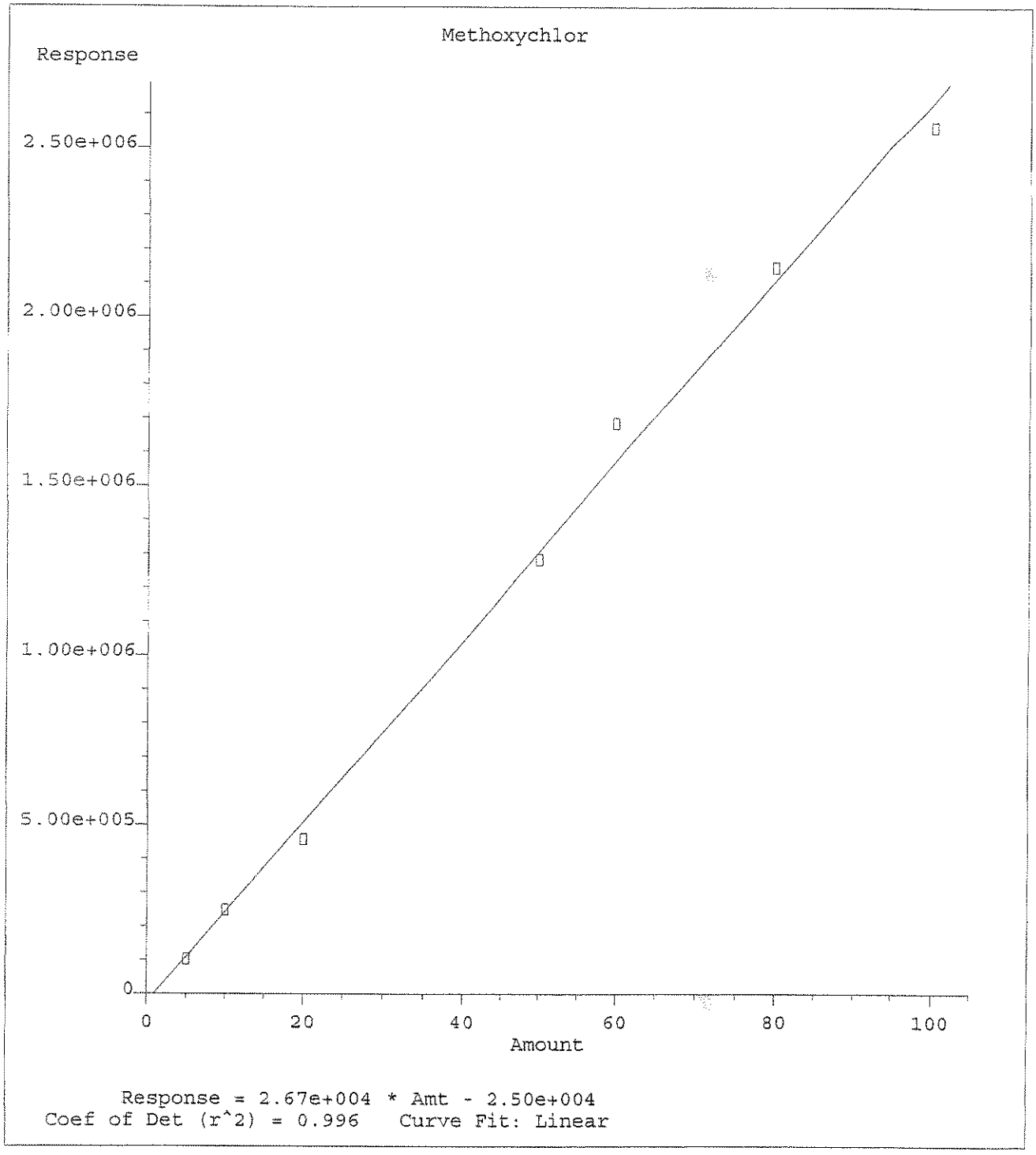

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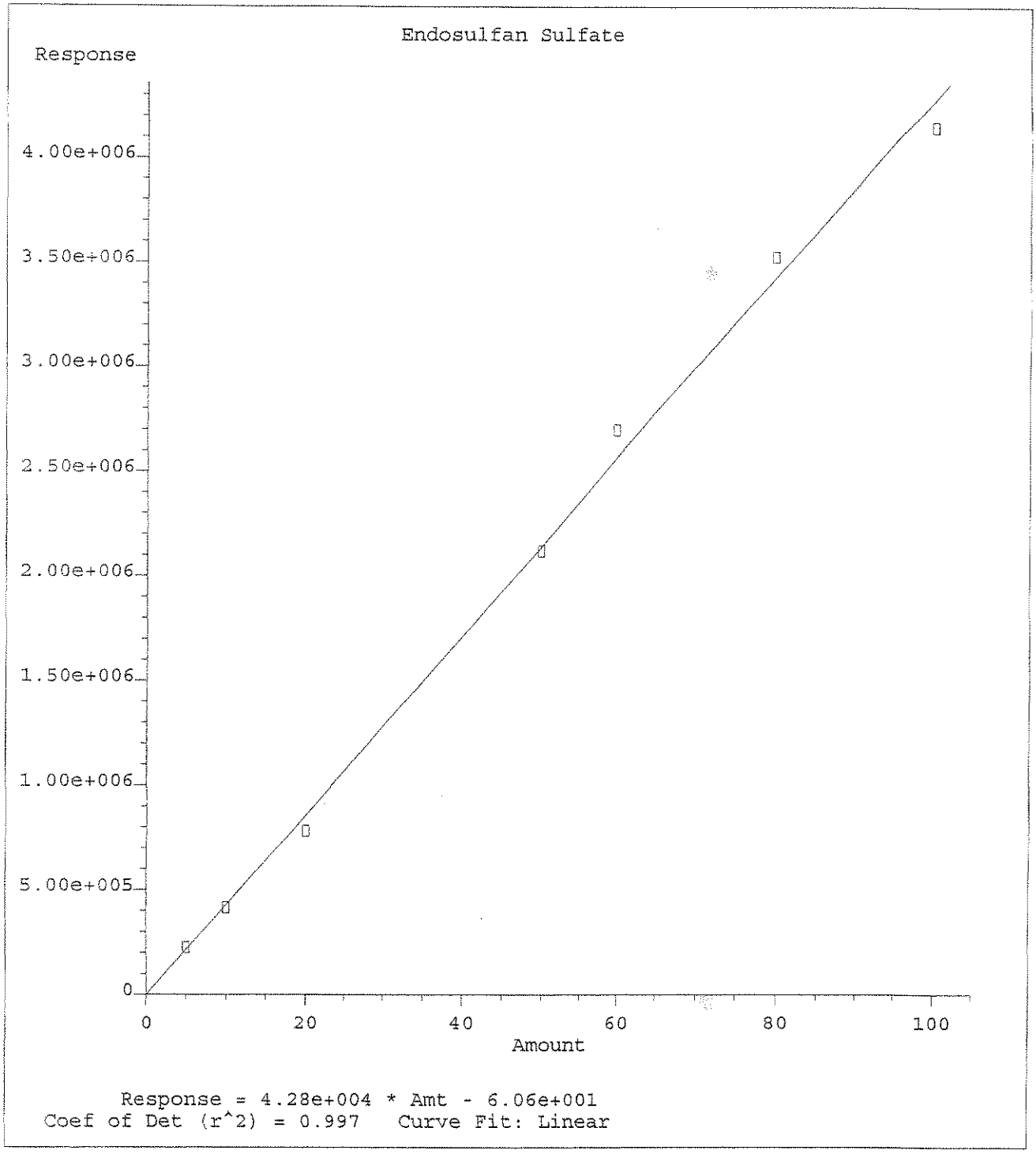

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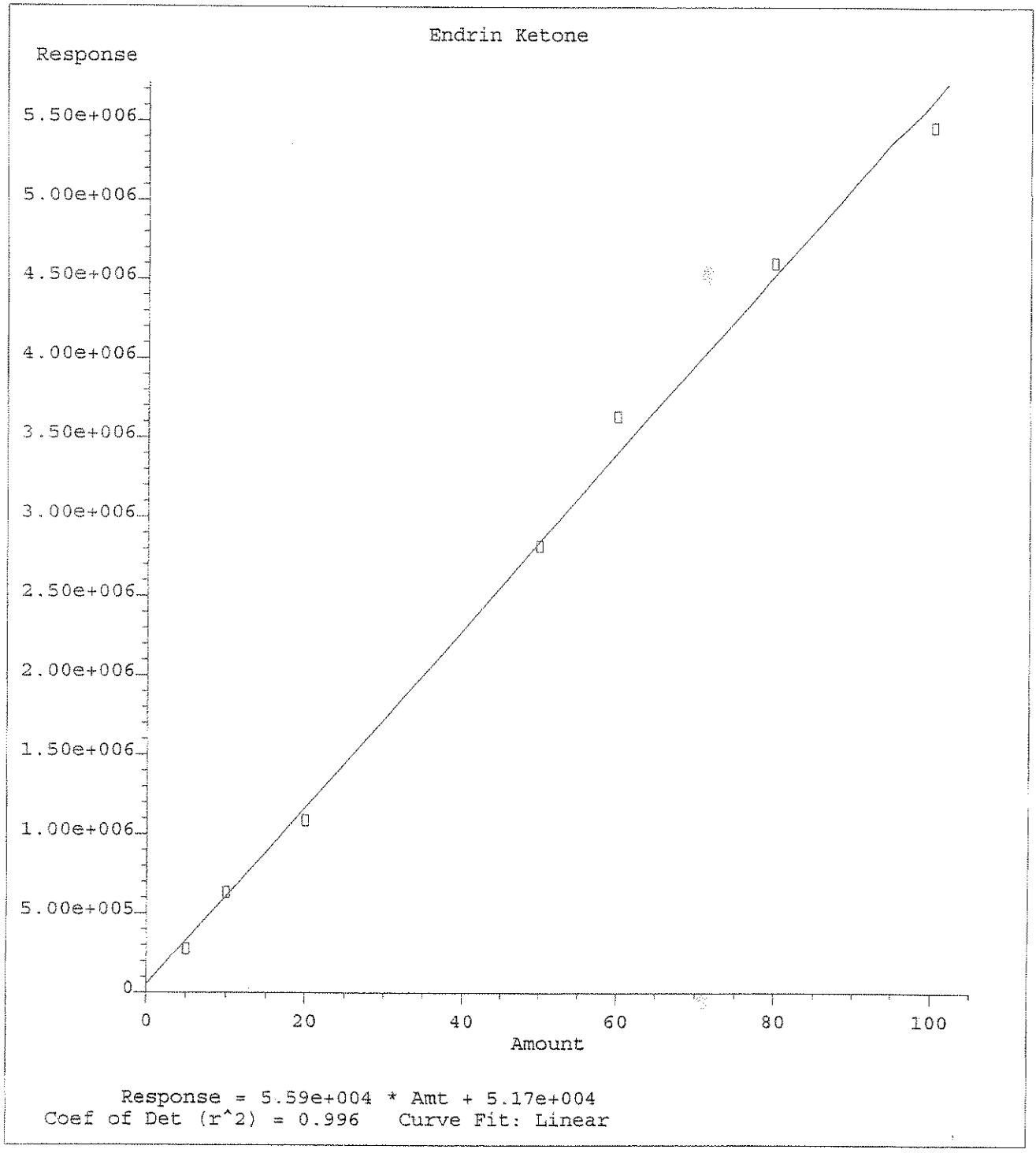

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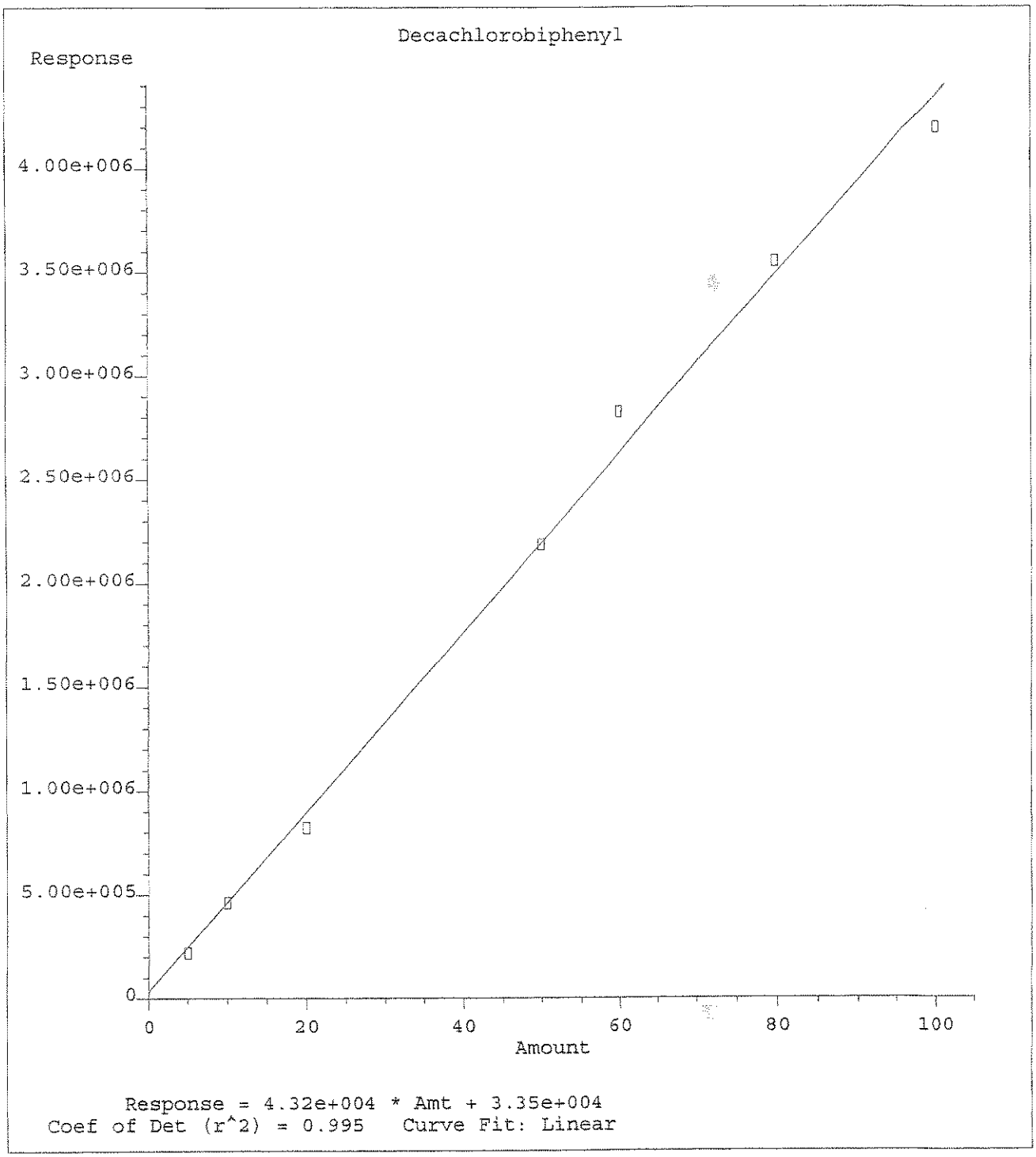

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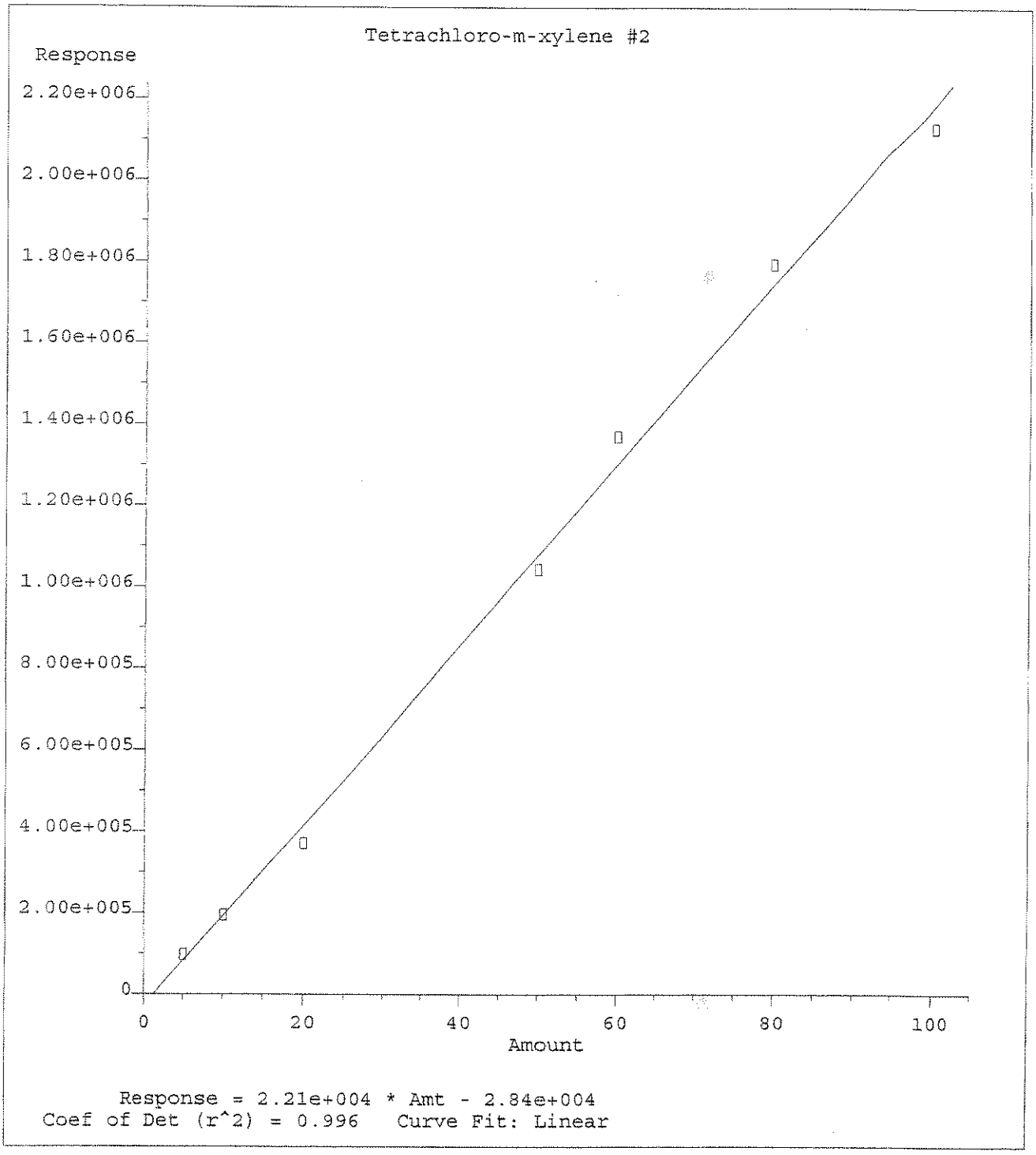

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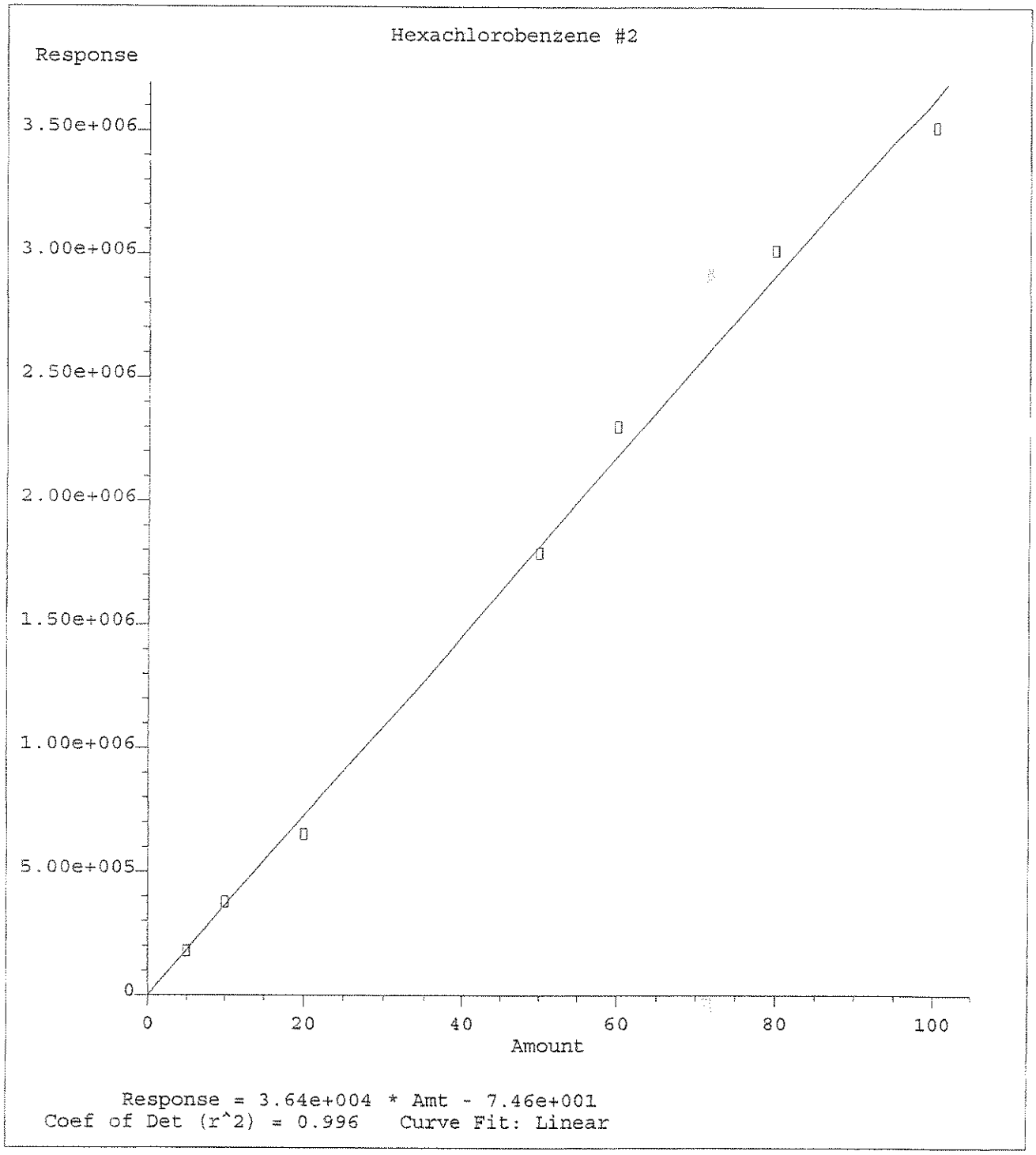

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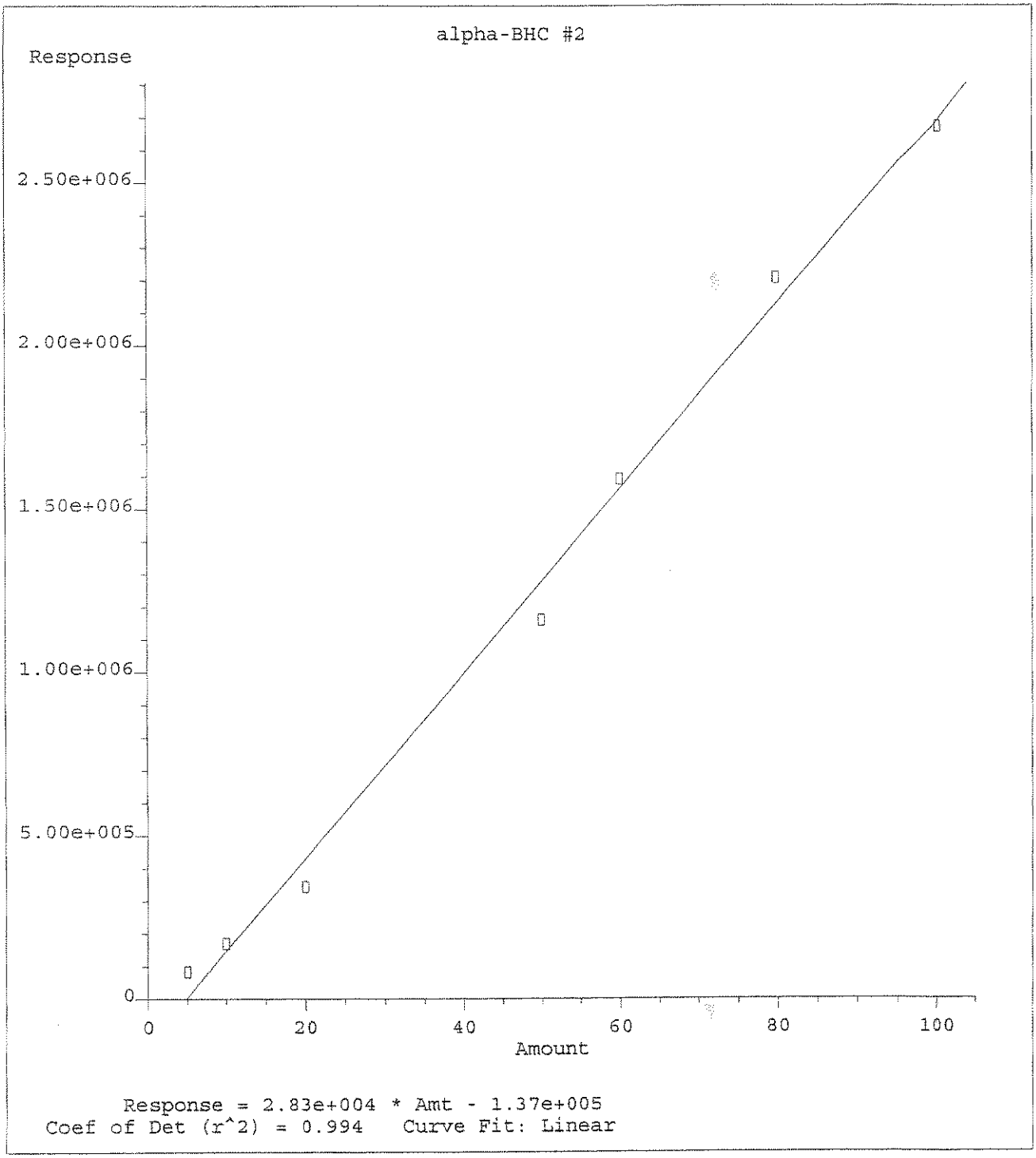

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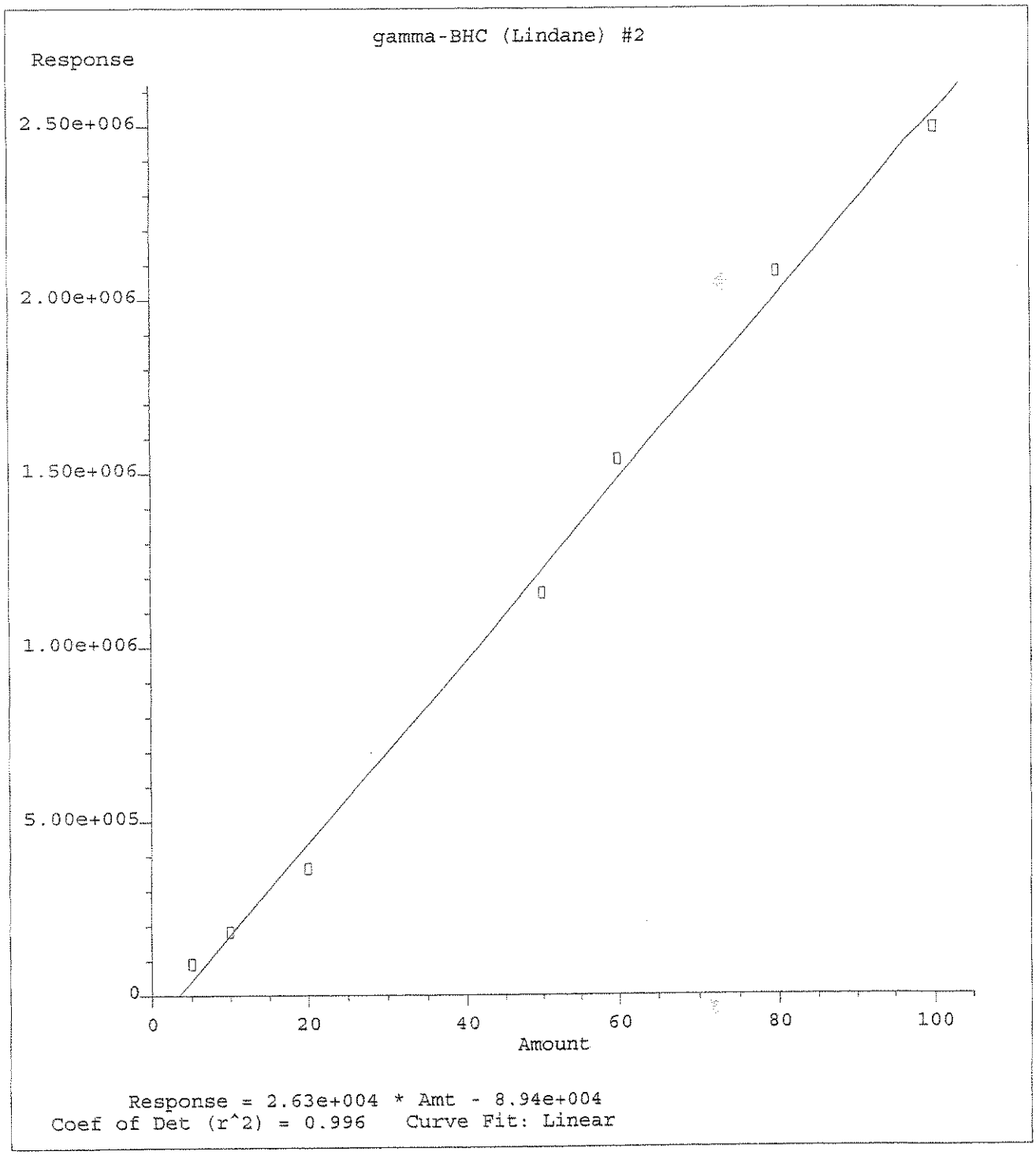

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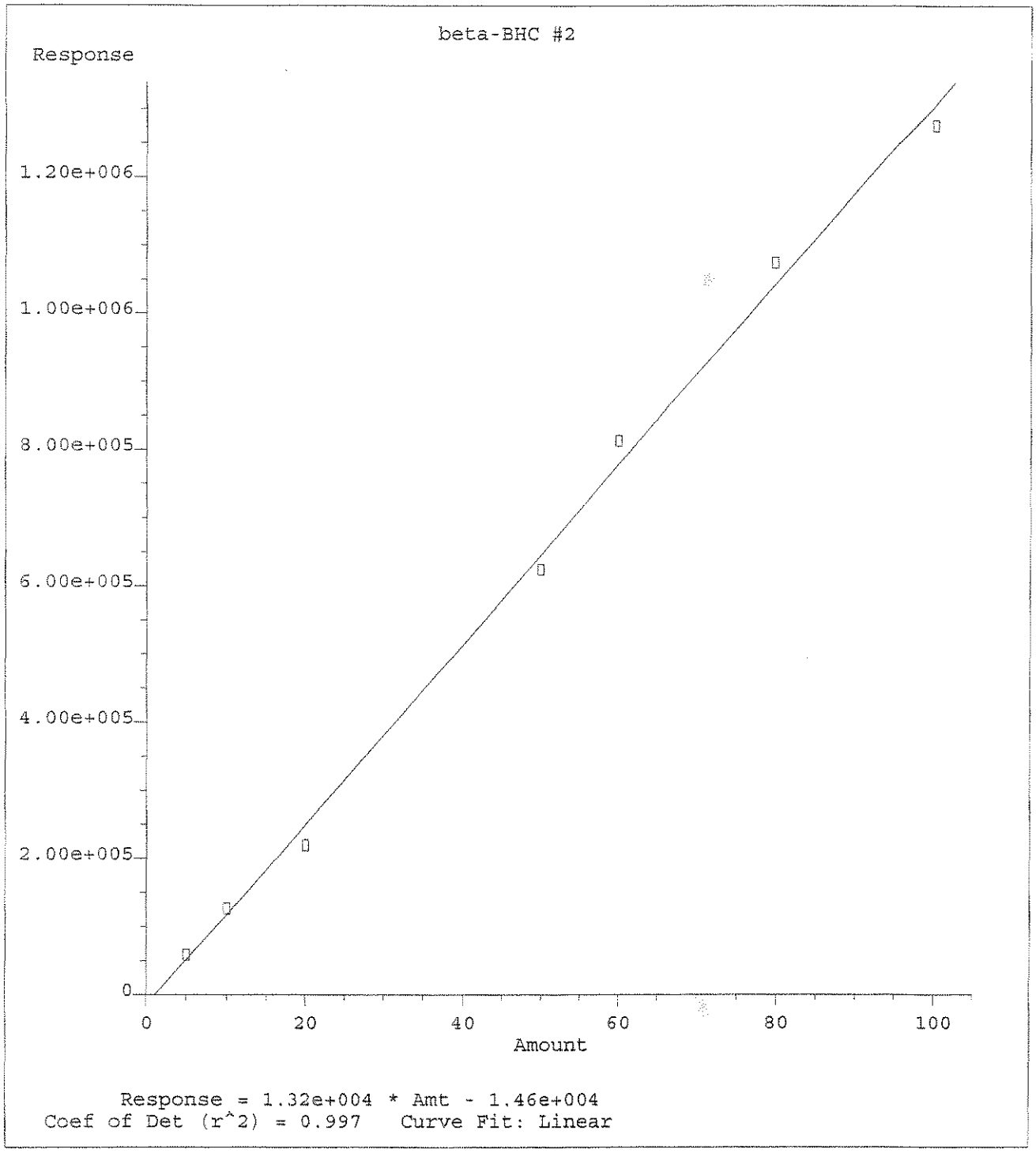

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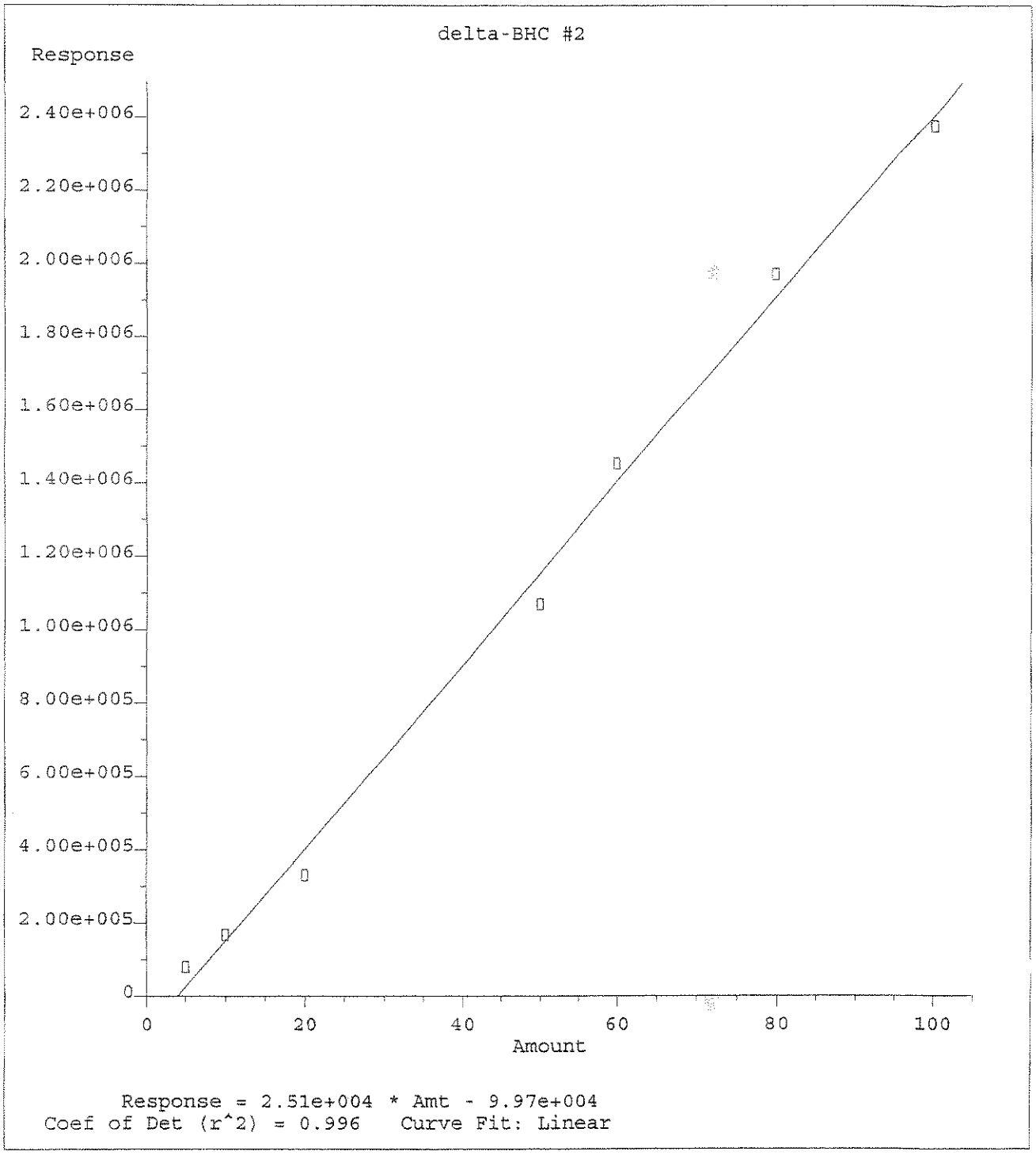

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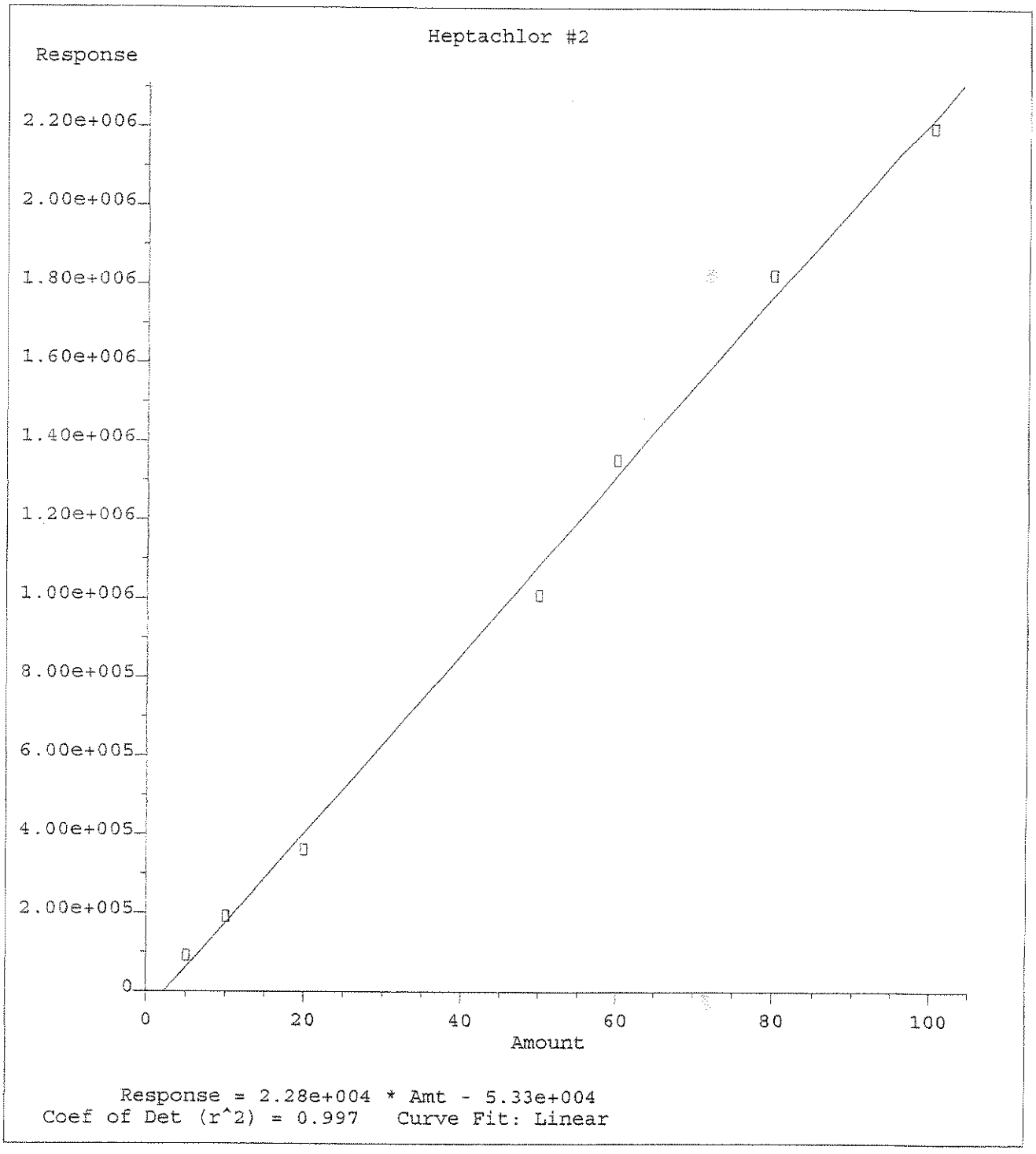

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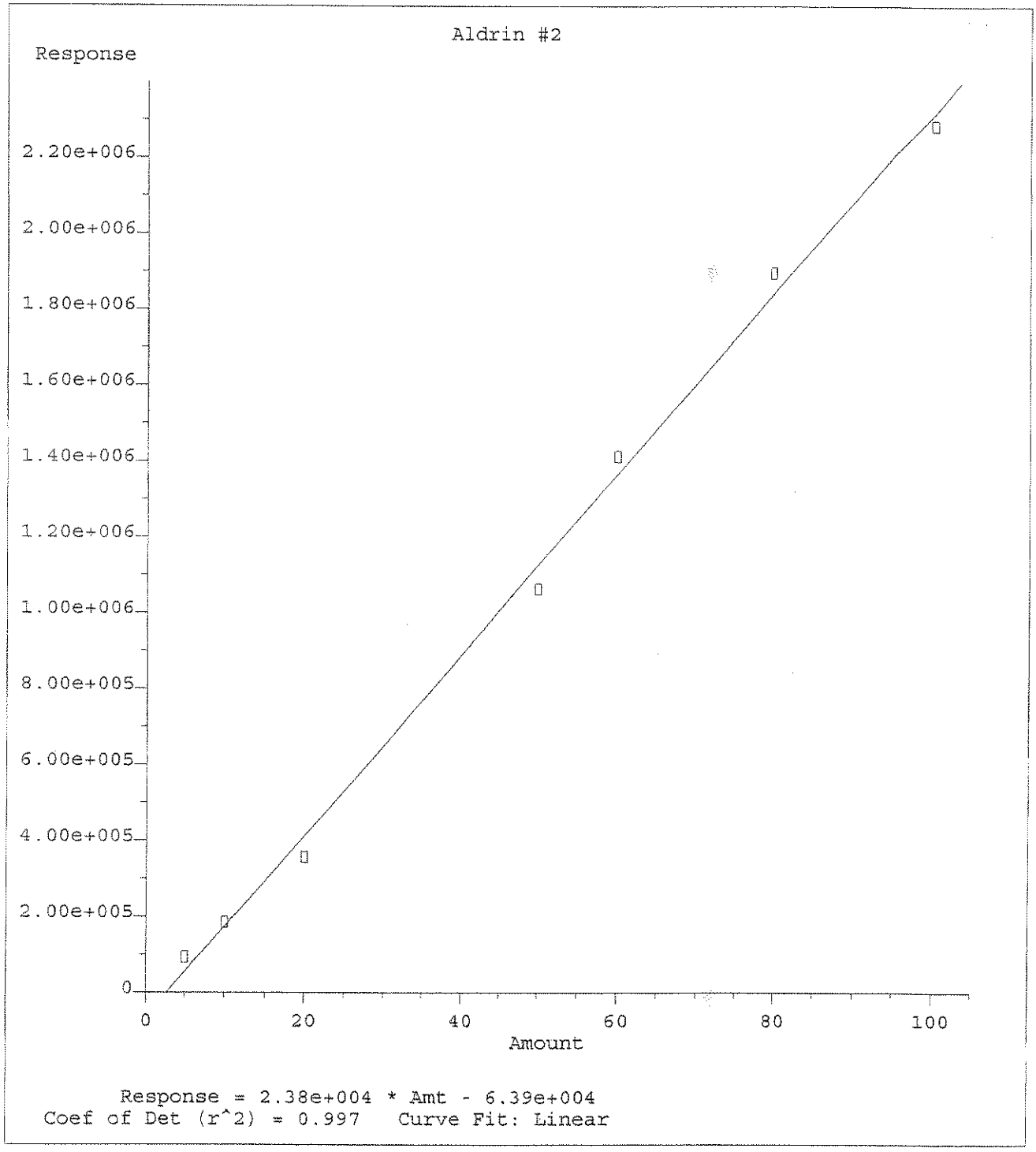

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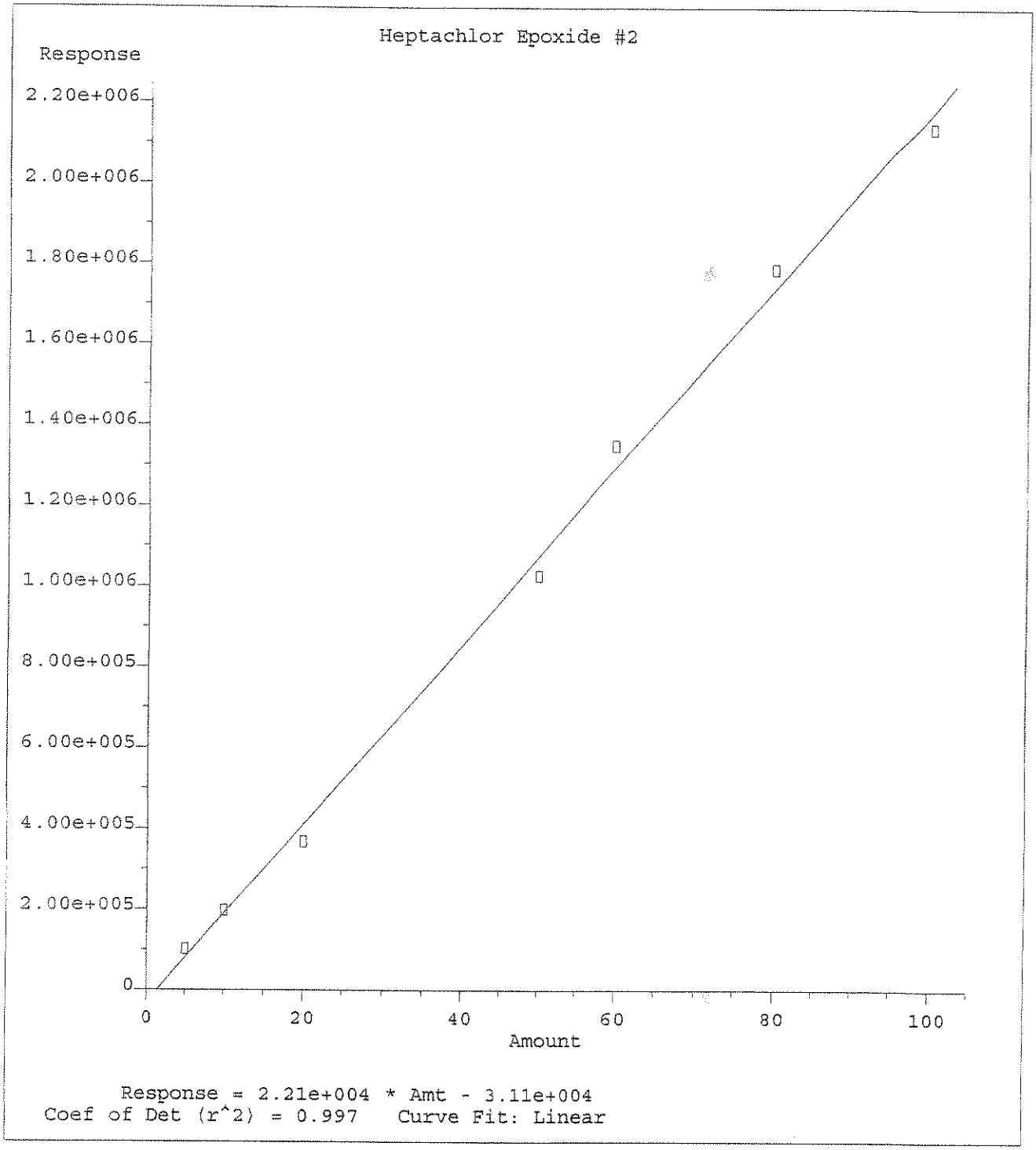

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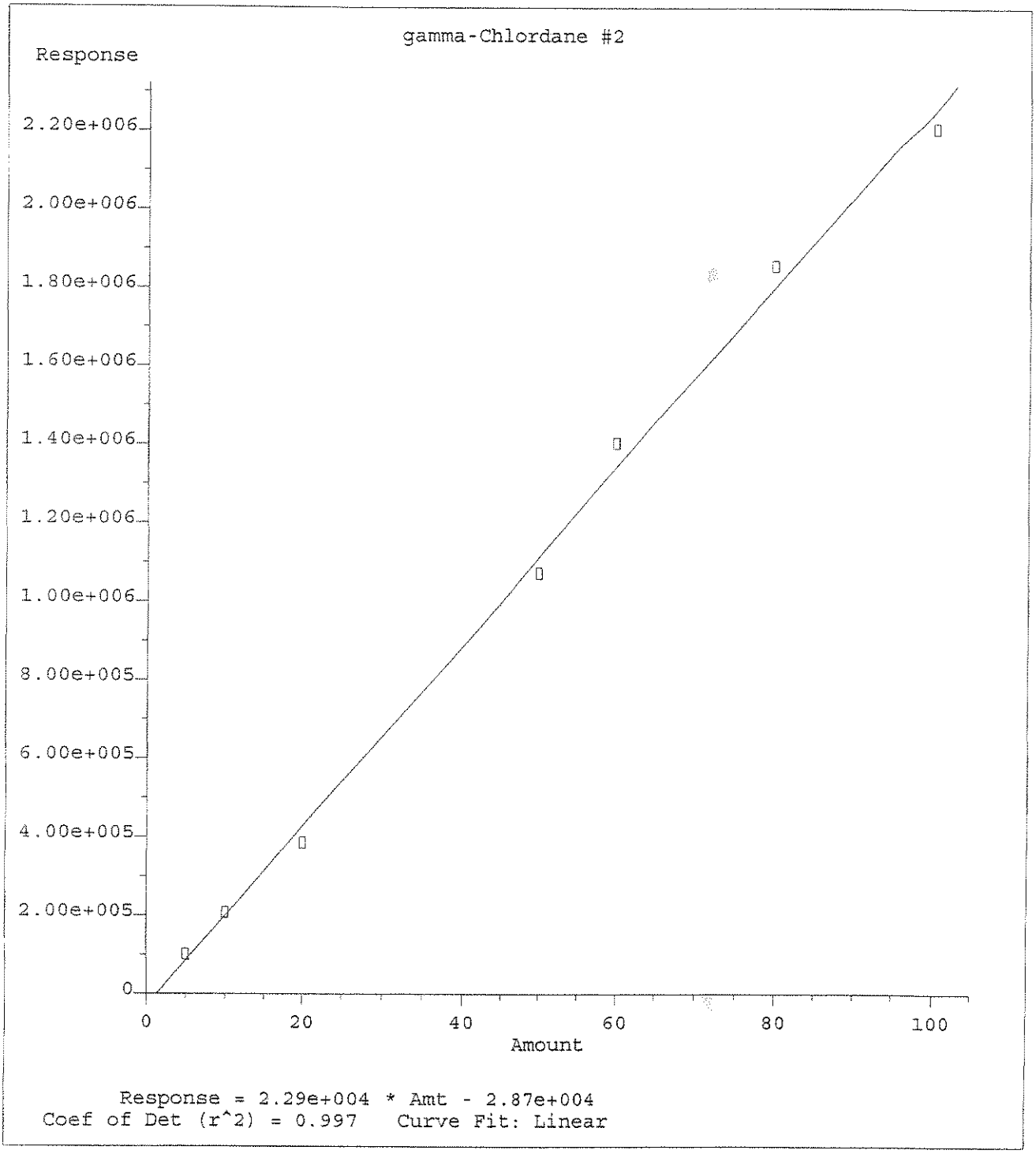

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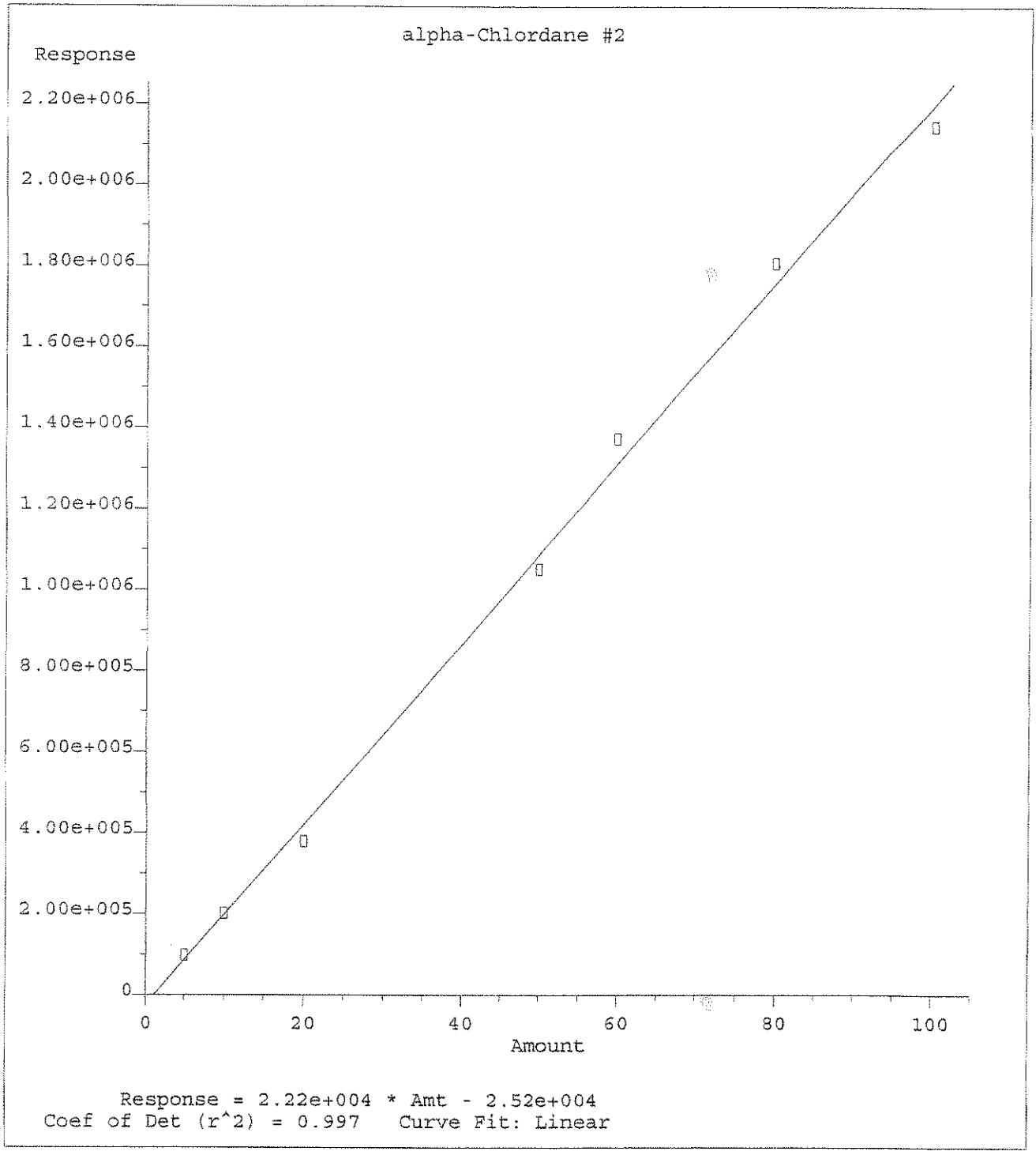

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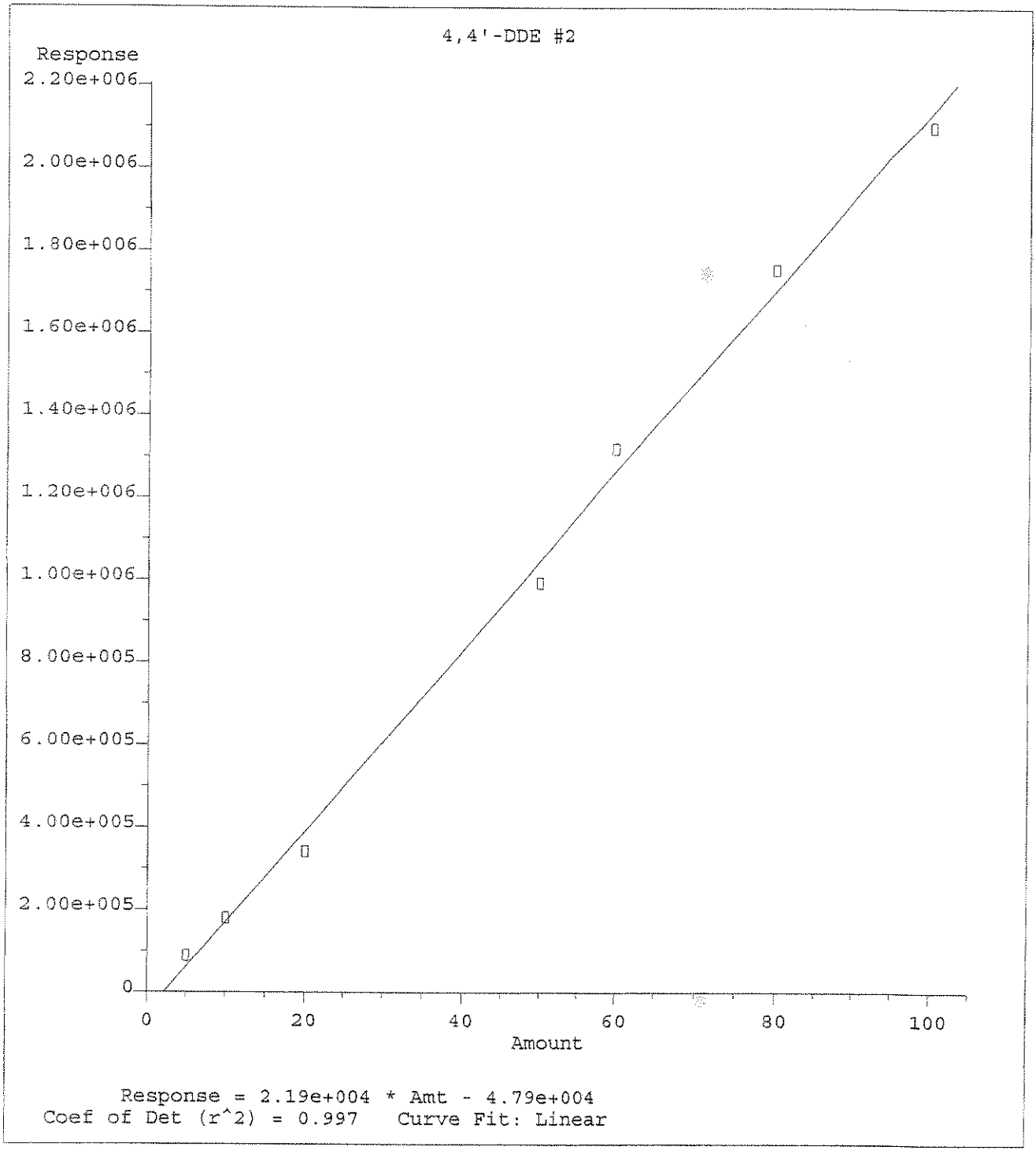

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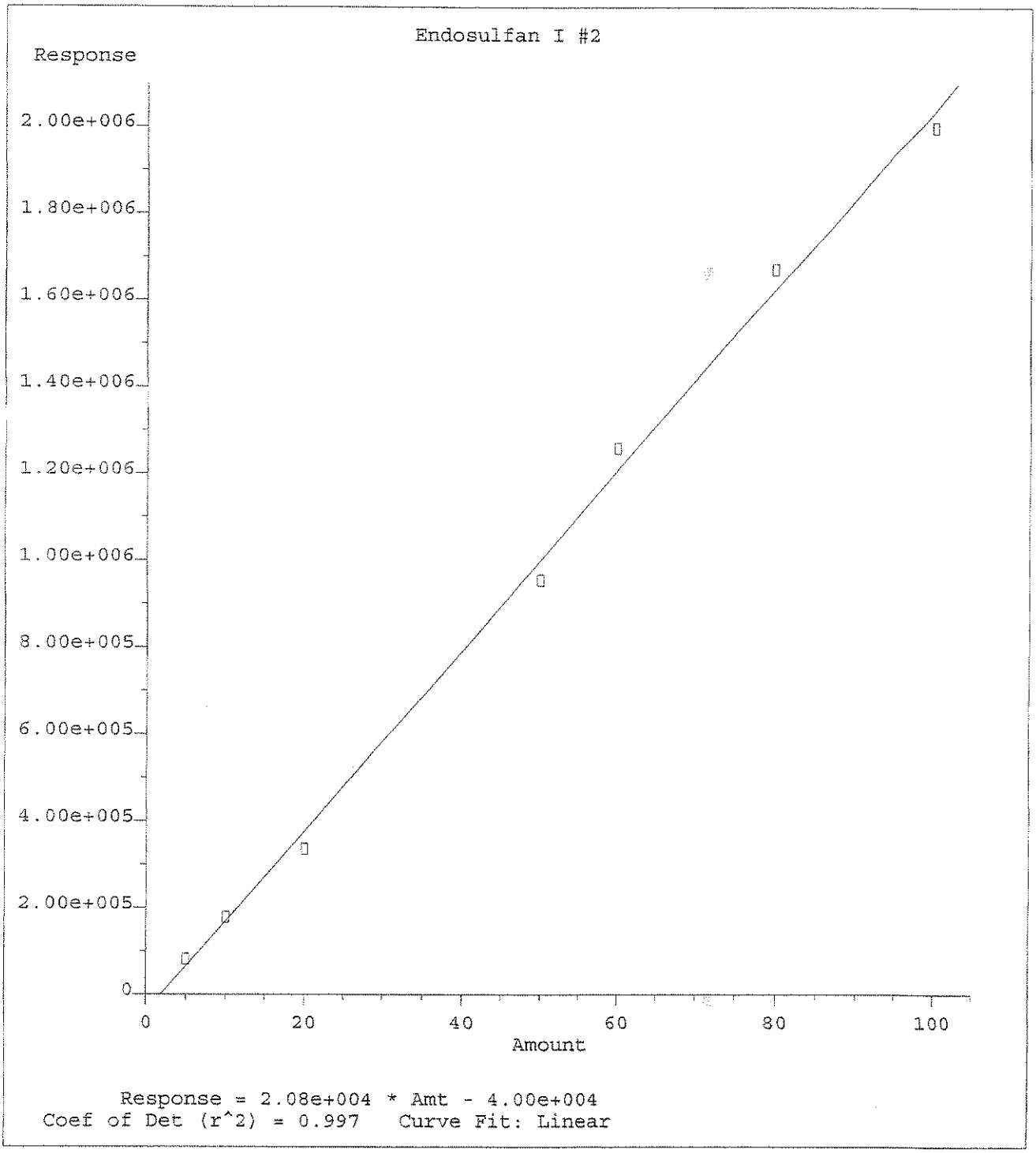
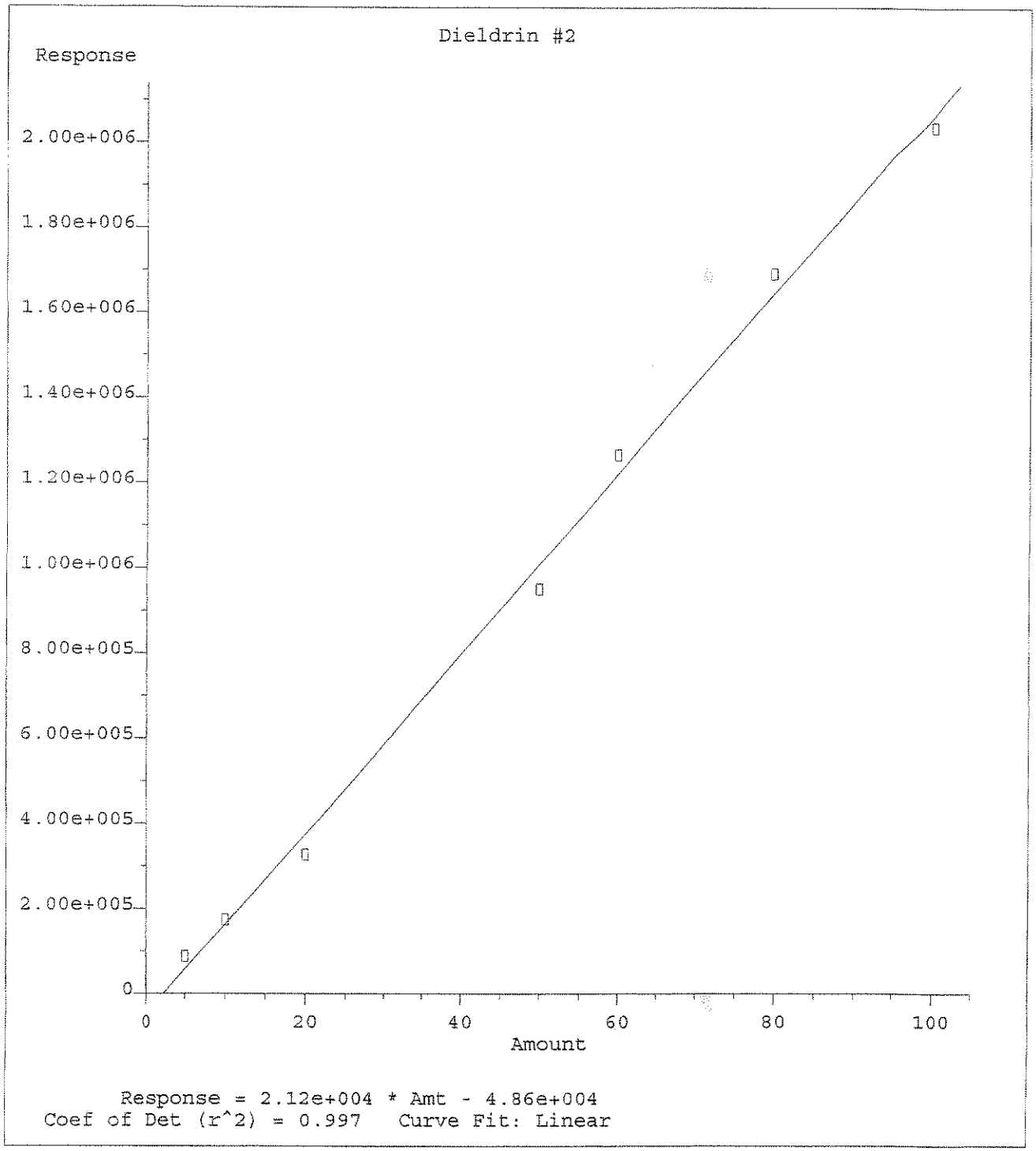
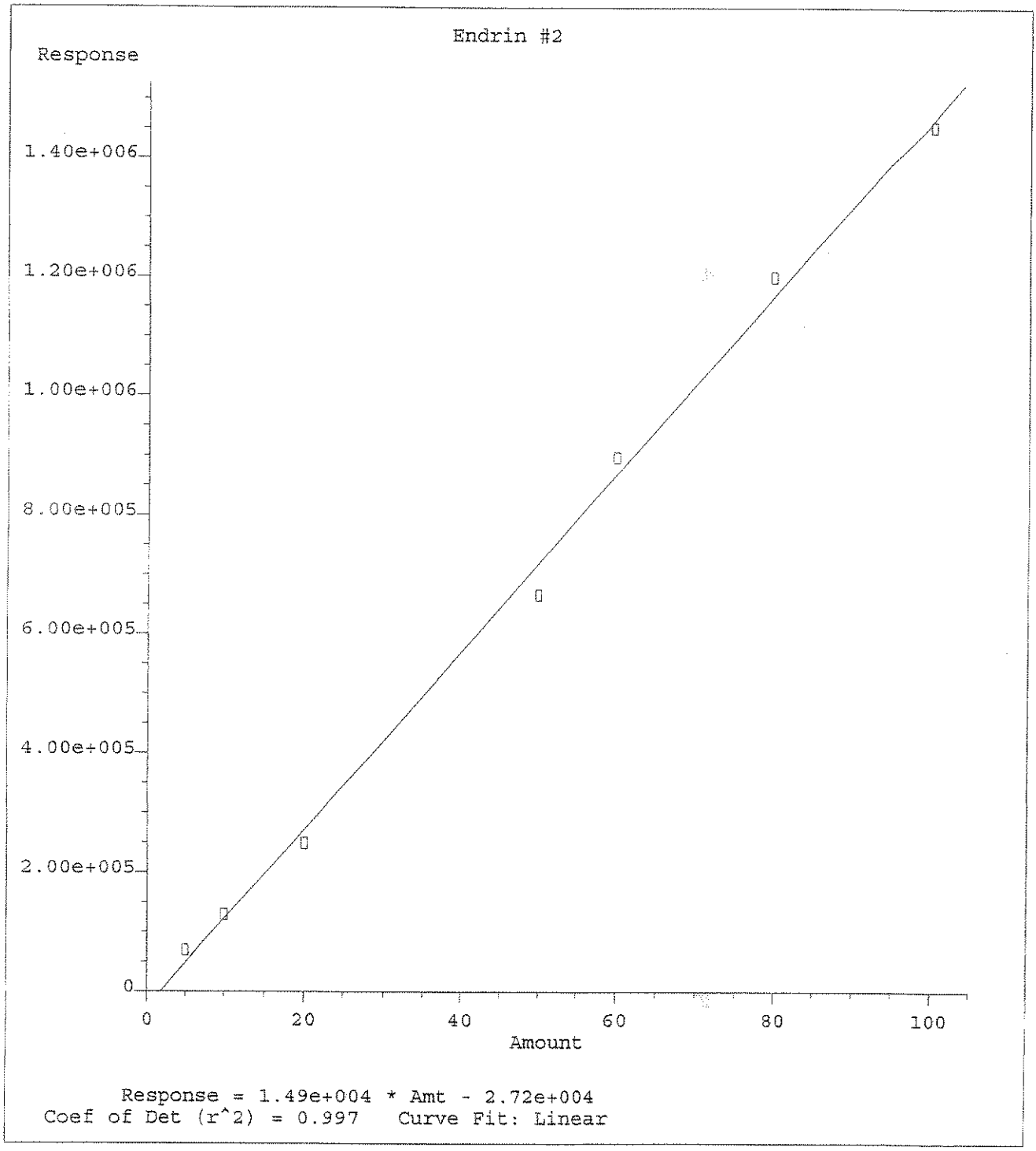


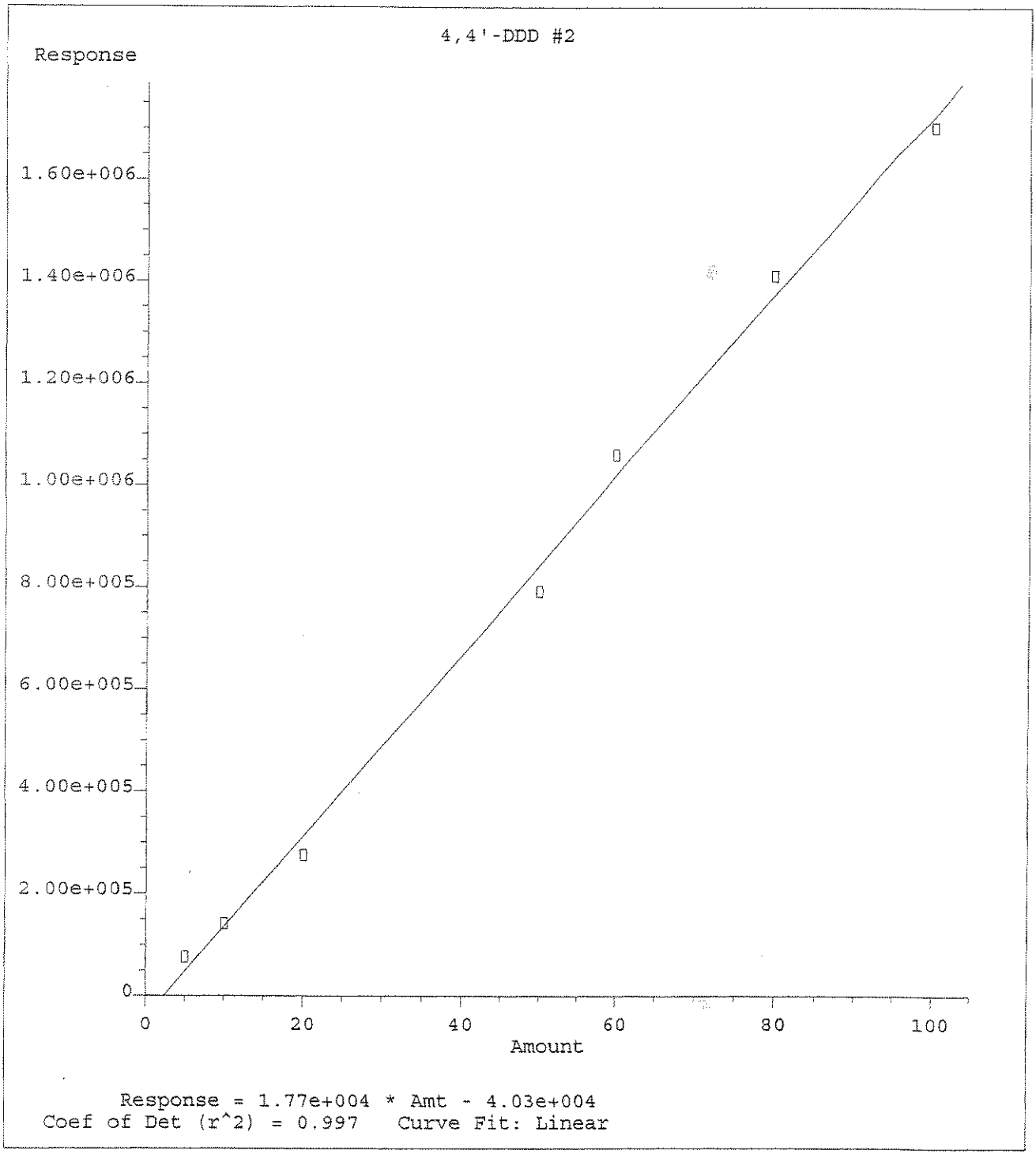
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EC.M
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006



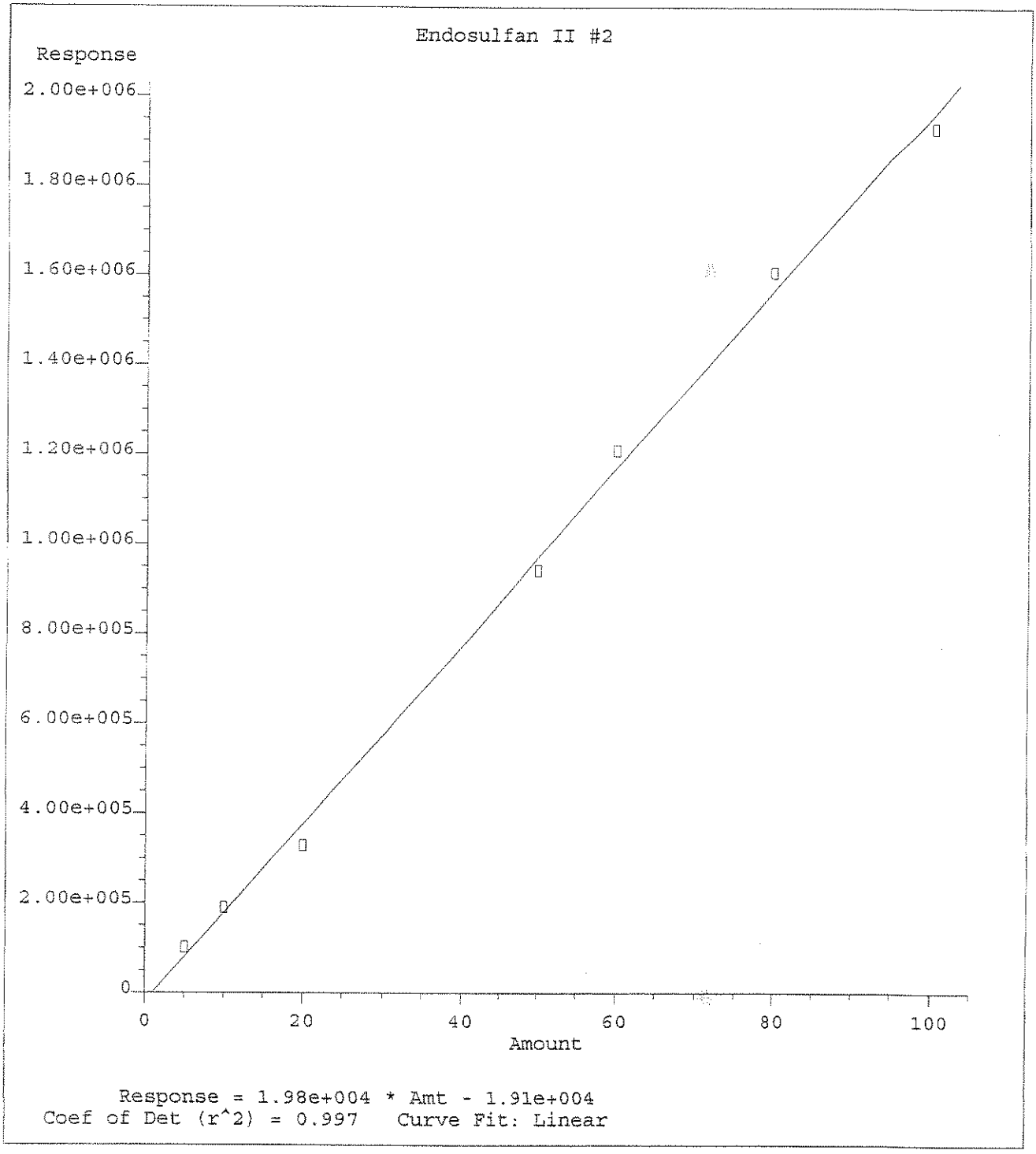
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EC.M
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006



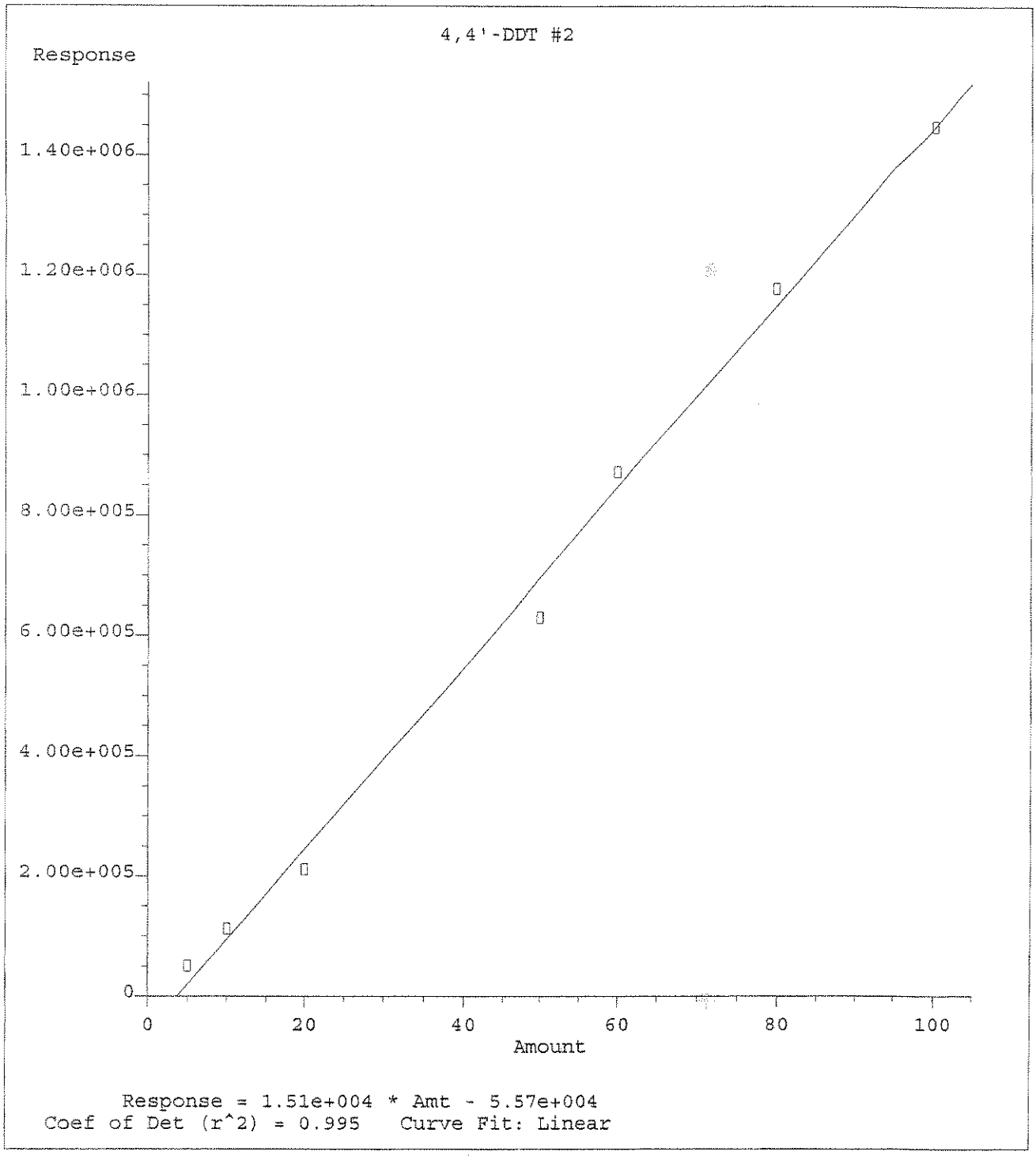
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EC.M
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006



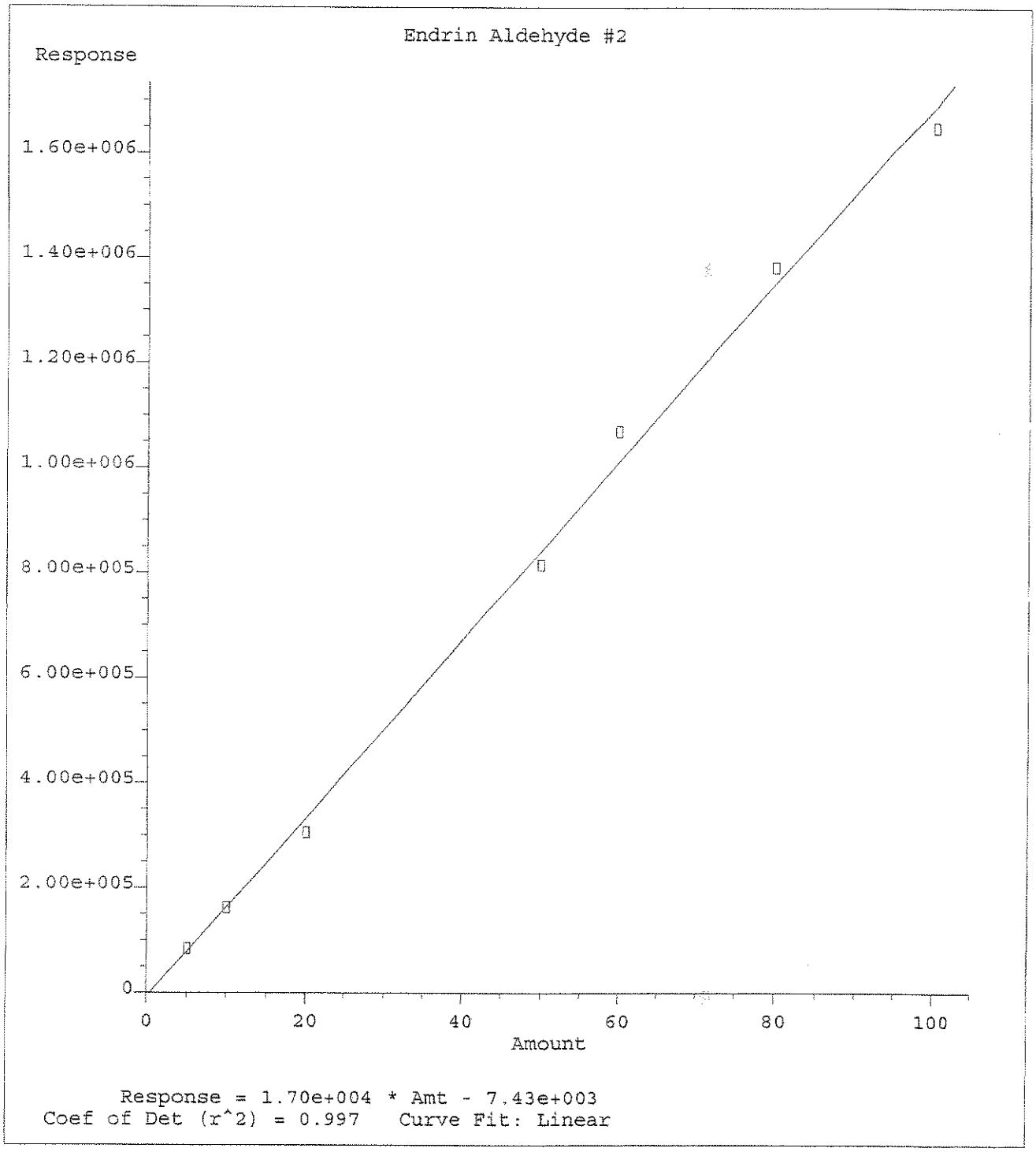
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EC.M
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006



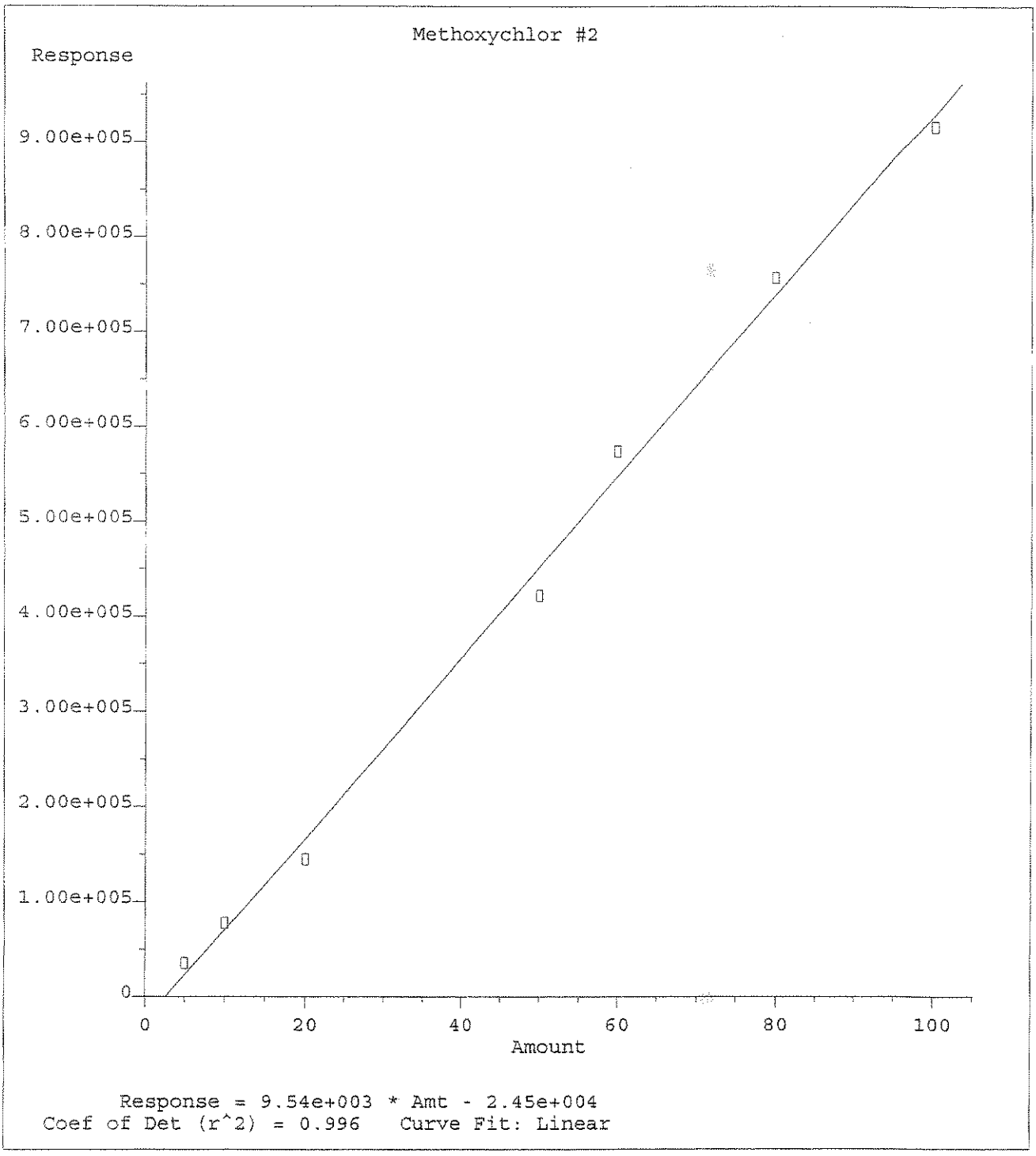
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EC.M
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006



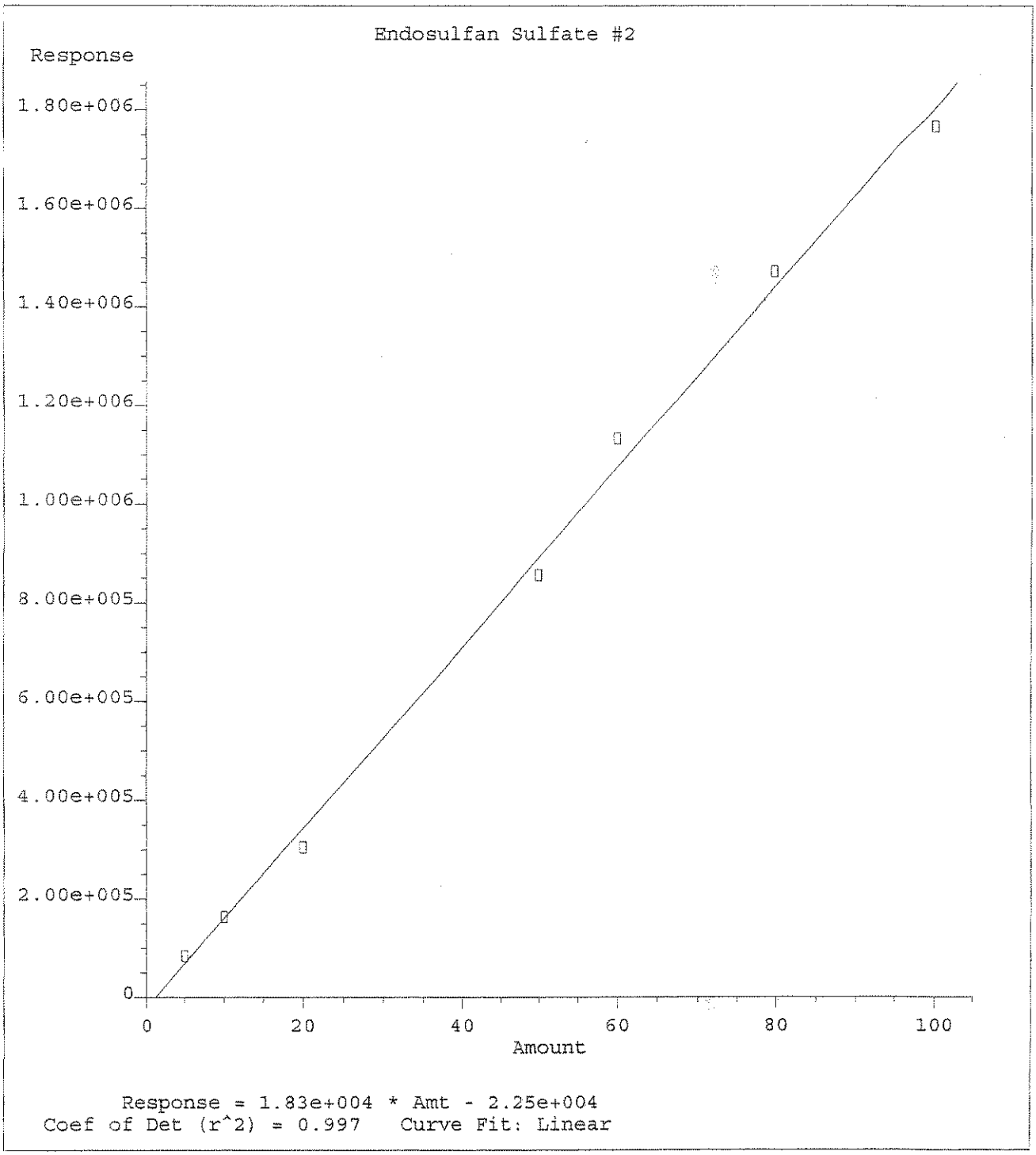
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EC.M
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006



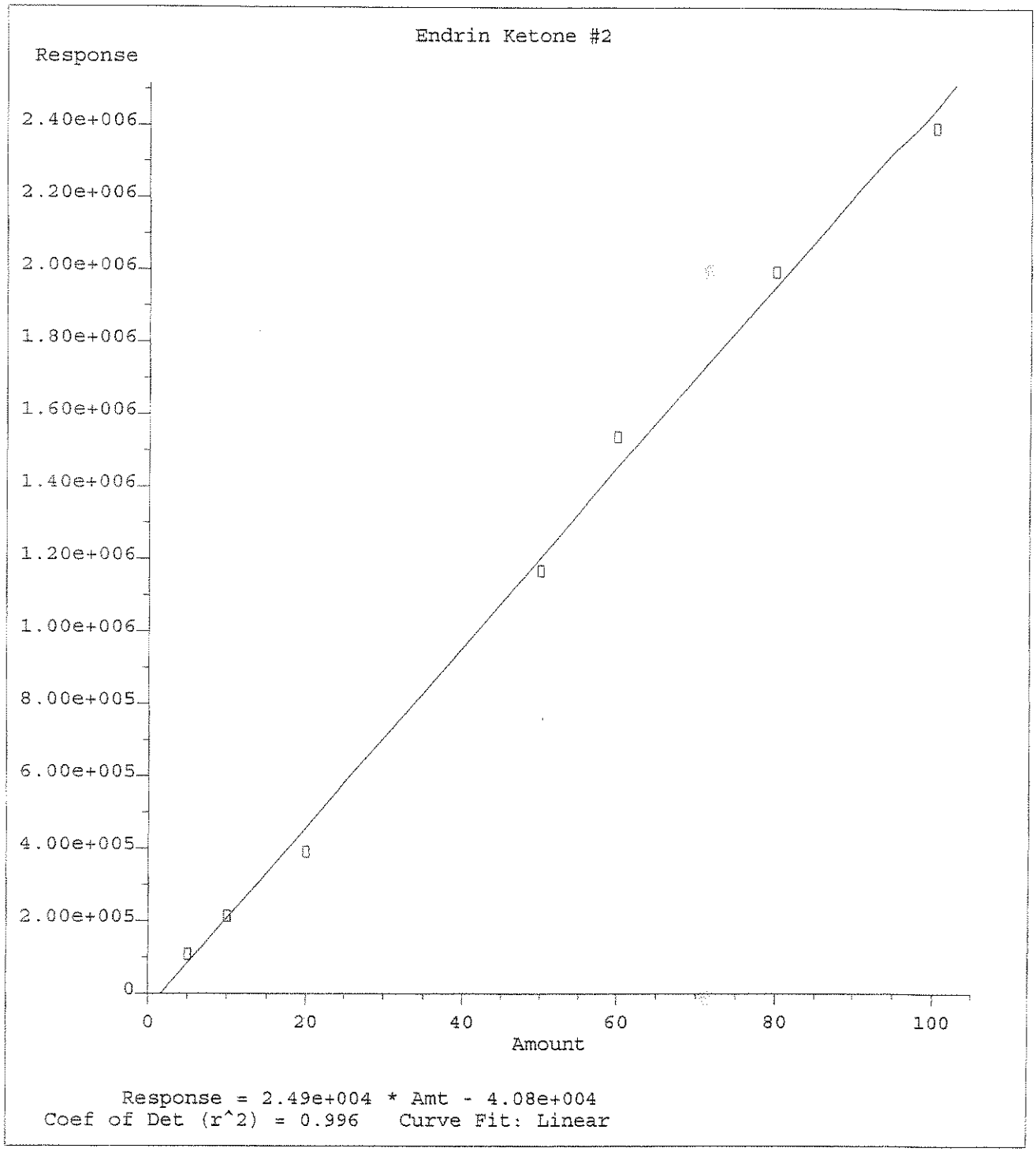
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EC.M
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006



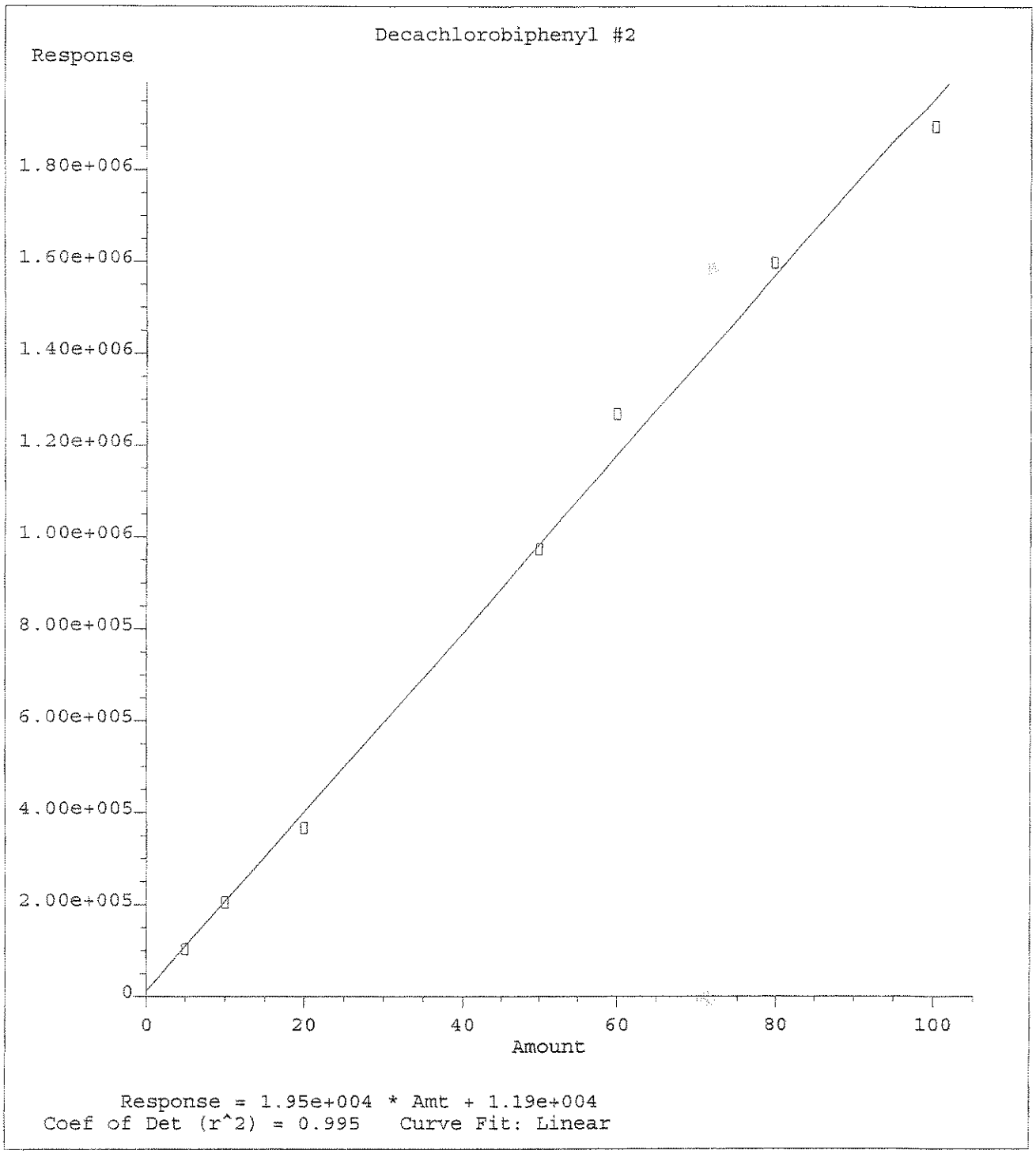
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EC.M
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EC.M
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EC.M
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EC.M
Calibration Table Last Updated: Fri Jun 09 14:29:36 2006

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE060906\012F0101.D Vial: 12
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE060906\012F0101.D\012R0101.D
Acq On : 09 Jun 06 02:45 PM Operator: [GC]2R0101.D\DATA.MS
Sample : CHLOR Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 12 8:30 19106

Method : Q:\SVOA\GC3_GE\METHODS\CHECCC.M
Title :
Last Update : Mon Jun 12 08:30:32 2006
Response via : Multiple Level Calibration

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.74	8.86	1292480	429998	25.000	25.000
					Recovery	=	50.00%	50.00%
6)	S	Decachlorobiphenyl	18.25	20.95	917133	393289	24.783m	25.000
					Recovery	=	49.57%	50.00%
		Target Compounds						
2)	L	Chlordane (1)	10.72	11.76	458554	161751	250.000	250.000
3)	L	Chlordane (2)	10.88	12.05	743894	227358	250.000	250.000
4)	L	Chlordane (3)	12.84	14.08	1526815	609547	250.000	250.000
5)	L	Chlordane (4)	13.07	14.33	2377429	522475	250.000	250.000
		Total Chlordane (1)			5106692	1521131	1000.000	1000.000
		Average Chlordane (1)					250.000	250.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE060906\014F0101.D Vial: 14
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE060906\014F0101.D\014R0101.D
Acq On : 09 Jun 06 03:41 PM Operator: [GC]4R0101.D\DATA.MS
Sample : TOX Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 12 8:34 19106

Method : Q:\SVOA\GC3_GE\METHODS\TXECCC.M
Title :
Last Update : Mon Jun 12 08:33:29 2006
Response via : Single Level Calibration

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.74	8.86	1678458	556524	40.000	40.000
					Recovery	=	80.00%	80.00%
3)	S	Decachlorobiphenyl	18.25	20.95	1300664	529280	40.000	40.000
					Recovery	=	80.00%	80.00%
		Target Compounds						
2)	H	Toxaphene	15.52	15.52	98625611	39513662	2500.000	2500.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ANALYSIS SEQUENCE

BPG0217

Instrument: SVOAGC3

Calibnration ID: ~~UNASSIGNED~~ 8081EC

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0217-PEM1	QC		1		6E02036		
BPG0217-CCV1	QC		2		6F12082		
BF60923-BLK2	QC		3				
BF60923-BS2	QC		4				
BF60923-BSD2	QC		5				
BPG0217-CCV2	QC		6		6F12082		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/9/06	41	GE060906-41	0606078-15 ✓	8081EC	(RC) 2nd CCal	SW
↓	42	42	16 ✓			
	43	43	17 ✓		Chlor? (R2)	
	23	23	Hexane			
	23	23	Hexane			
↓	25	25	Pest 50 CC			↓
6/9/06	28	GE060906-25	Pest 50 CC ✓	8081EC	6F09048 7:35 AM DDT fails low.	SW
6/12/06	1	GE061206-1	Prime	8081EC		SW
↓	2	2	Pem	↓		↓
	3	3	Pest 50 CC		DDT Low	
↓	4	4	Chlor 250			
6/12/06	3	3	Pest 50 cc	8081EC	DDT low	SW
6/12/06	1	GE0612GA-1	Prime	8081 EC		SW
↓	2	2	Pem ✓	↓	6E02036	↓
	3	3	Pest 50 cc		6F12082	
	3	3	Pest 50 cc ✓		6F12082	
	4	4	BF60801 - BLK1 ✓			
	5	5	BS1 ✓			
	6	6	BSD1 ✓			
	7	7	BF60923 - BLK ✓			
	8	8	BS1 ✓			
	9	9	BSD1 ✓			
	10	10	0606071 - 01 ✓			
	11	11	01 MS ✓			
↓	12	12	01 MSD ✓	↓		↓
6/12/06	13	GE0612GA-13	03 ✓	8081EC		SW

CONTROL NUMBER 60.0012-0601A

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ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/12/06	14	6E06126A-14	0606078-07	8081EC		SB
	15	15	09			
	16	16	11			
	17	17	14			
	18	18	15			
	19	19	1660		6F09049	
	20	20	1254		050	
	21	21	1248		057	
	22	22	1242		6F09052	
	23	23	Hexane			
	24	24	PEM			
	25	25	Pest 10 cc		6F12082 DDT low front	
	25	25	Pest 50 cc		6F12082	
	26	26	Chlor 250 PPB		6F12083	
	27	27	0606078-17			
	28	28	17		5x	
	29	29	01			
	30	30	02			
	31	31	03			
	32	32	06			
	33	33	08			
	34	34	08		5x	
	35	35	10		5x	
	36	36	12			
	37	37	16			
6/12/06	38	6E06126A38	0606078-04	8081EC	20x	SB

RR

CONTROL NUMBER 60.0012-0601A

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Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06126A\002F0101.D Vial: 2
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06126A\002F0101.D\002R0101.D
Acq On : 12 Jun 06 01:36 PM Operator: [GC]2R0101.D\DATA.MS
Sample : PEM Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 12 14:59 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EC.M
Title :
Last Update : Fri Jun 09 14:29:36 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.71	8.83	2841674	1013673	47.042	47.056
					Recovery	=	94.08%	94.11%
23)	S	Decachlorobiphenyl	18.22	20.90	1911932	833176	43.510m	42.190
					Recovery	=	87.02%	84.38%
		Target Compounds						
2)	M	Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3)	M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	M	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
5)	M	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6)	M	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	M	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
8)	M	Aldrin	0.00	0.00	0	0	N.D.	N.D.
9)	M	Heptachlor Epoxide	0.00	0.00	0	0	N.D.	N.D.
10)	M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12)	M	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	M	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
14)	M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15)	M	Endrin	14.12	15.44	4924488	1717707	117.048	116.849
16)	M	4,4'-DDD	0.00	15.54	0	137895	N.D.d	10.087m
17)	M	Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18)	M	4,4'-DDT	14.67	16.07	4132973	1516317	94.748	104.438
19)	M	Endrin Aldehyde	15.23	16.36	25759	8490	0.272m	0.937m#
20)	M	Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
21)	M	Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22)	M	Endrin Ketone	16.42	17.92	184819	57884	2.383	3.961m#

ε $\frac{210578}{5135066} \approx 4.1\%$ DDT $\frac{0}{4132973} = 0\%$

ε $\frac{66374}{1784081} \approx 3.72\%$ DDT $\frac{137895}{1654212} \approx 8.33\%$

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06126A\003F0201.D Vial: 3
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06126A\003F0201.D\003R0201.D
Acq On : 12 Jun 06 02:32 PM Operator: [GC]3R0201.D\DATA.MS
Sample : PEST 50PPB Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 13 8:29 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EC.M
Title :
Last Update : Fri Jun 09 14:29:36 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.71	8.83	3113882	1110655	51.551	51.435
					Recovery	=	103.10%	102.87%
23)	S	Decachlorobiphenyl	18.22	20.91	2349279	1030035	53.640	52.303
					Recovery	=	107.28%	104.61%
		Target Compounds						
2)	M	Hexachlorobenzene	8.71	10.00	4981856	1888798	52.760	51.898
3)	M	alpha-BHC	9.15	10.33	3372217	1260659	50.124	49.452
4)	M	gamma-BHC (Lindane)	9.87	11.11	3157863	1233434	50.407	50.386
5)	M	beta-BHC	10.09	11.29	1721445	664594	51.504	51.409
6)	M	delta-BHC	10.45	11.88	3058494	1170454	49.610	50.677
7)	M	Heptachlor	10.86	12.03	3228463	1152487	52.217	52.952
8)	M	Aldrin	11.45	12.67	2822878	1137560	50.909	50.445
9)	M	Heptachlor Epoxide	12.60	13.72	2709110	1095553	52.189	50.961
10)	M	gamma-Chlordane	12.82	14.05	2749072	1145371	51.788	51.302
11)	M	alpha-Chlordane	13.05	14.31	2654768	1121795	51.852	51.574
12)	M	4,4'-DDE	13.18	14.54	2570201	1067130	51.056	50.968
13)	M	Endosulfan I	13.30	14.43	2639687	1014633	51.946	50.736
14)	M	Dieldrin	13.72	14.91	2452150	1008637	50.785	49.983
15)	M	Endrin	14.12	15.44	2126422	740136	51.206	51.385
16)	M	4,4'-DDD	14.20	15.53	2216581	872581	51.515	51.672
17)	M	Endosulfan II	14.51	15.79	2326104	951361	51.499	48.923
18)	M	4,4'-DDT	14.67	16.07	1868168	614764	43.464	44.541
19)	M	Endrin Aldehyde	15.21	16.36	2021856	861673	51.248	51.171
20)	M	Methoxychlor	15.46	17.25	1169911	401856	44.837	44.709
21)	M	Endosulfan Sulfate	15.94	16.87	2350208	899323	54.913	50.444
22)	M	Endrin Ketone	16.43	17.95	3154545	1228765	55.543	50.972

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06126A\025F0201.D Vial: 25
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06126A\025F0201.D\025R0201.D
Acq On : 13 Jun 06 00:49 AM Operator: [GC]5R0201.D\DATA.MS
Sample : PEST 50CC Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 13 7:36 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EC.M
Title :
Last Update : Fri Jun 09 14:29:36 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.71	8.83	3261477	1128771	53.996	52.253
					Recovery	=	107.99%	104.51%
23)	S	Decachlorobiphenyl	18.22	20.91	2490308	1095645	56.906	55.673
					Recovery	=	113.81%	111.35%
		Target Compounds						
2)	M	Hexachlorobenzene	8.71	10.00	5276658	1936723	56.006	53.215
3)	M	alpha-BHC	9.15	10.34	3562644	1294195	52.810	50.639
4)	M	gamma-BHC (Lindane)	9.87	11.11	3313891	1264399	52.802	51.565
5)	M	beta-BHC	10.09	11.29	1823263	681516	54.509	52.690
6)	M	delta-BHC	10.45	11.88	3185341	1189578	51.547	51.440
7)	M	Heptachlor	10.86	12.03	3349989	1174278	54.147	53.909
8)	M	Aldrin	11.45	12.67	2942024	1169210	52.995	51.774
9)	M	Heptachlor Epoxide	12.60	13.72	2822391	1122480	54.345	52.179
10)	M	gamma-Chlordane	12.82	14.05	2865784	1179855	53.965	52.809
11)	M	alpha-Chlordane	13.05	14.31	2746542	1156204	53.655	53.121
12)	M	4,4'-DDE	13.18	14.55	2602926	1087246	51.698	51.887
13)	M	Endosulfan I	13.30	14.43	2763919	1044277	54.347	52.162
14)	M	Dieldrin	13.72	14.91	2517180	1032795	52.093	51.125
15)	M	Endrin	14.12	15.44	2092960	717855	50.419	49.893
16)	M	4,4'-DDD	14.21	15.53	2271325	899759	52.735	53.211
17)	M	Endosulfan II	14.51	15.79	2392627	976642	52.951	50.198
18)	M	4,4'-DDT	14.67	16.07	1783080	585762	41.537m	42.614m
19)	M	Endrin Aldehyde	15.21	16.36	2082715	886858	52.802	52.654
20)	M	Methoxychlor	15.46	17.25	1121759	394681	43.030	43.956
21)	M	Endosulfan Sulfate	15.94	16.87	2279253	919245	53.255	51.535
22)	M	Endrin Ketone	16.43	17.95	2972587	1286508	52.285	53.290

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ANALYSIS SEQUENCE

BPG0227

Instrument: SVOAGC3

Calibnration ID: ~~UNASSIGNED~~ 8081 EF

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0227-PEM1	QC		1		6E02036		
BPG0227-CAL1	QC		2		6F14082		
BPG0227-CAL2	QC		3		6F14083		
BPG0227-CAL3	QC		4		6F14084		
BPG0227-CAL4	QC		5		6F14085		
BPG0227-CAL5	QC		6		6F14086		
BPG0227-CAL6	QC		7		6F14087		
BPG0227-CAL7	QC		8		6F14088		
BPG0227-SCV1	QC		9		6F14090		
BPG0227-CAL8	QC		10		6F13062		
BPG0227-CAL9	QC		11		6B16090		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/14/06	1	GE0614GB-01	Prime	8081EF		SB
	2	02	Pem			
	3	03	Pest 5ppb ✓		6F14082 CAL1	
	4	04	10ppb ✓		083 2	
	5	05	20ppb ✓		084 3	
	6	06	50ppb ✓		085 4	
	7	07	60ppb ✓		086 5	
	8	08	80ppb ✓		087 6	
	9	09	100ppb ✓		088 7	
	00	10	SS		089	
	11	11	Pest SS ✓		090 SCV1	
	12	12	Chlor ✓		6F13062 CCV1/090 6F14091 CAL8	
	13	13	Tox ✓		6B16090 CAL9	
	14	14	BF61335-BLK1 ✓			
	15	15	BS1 ✓			
	16	16	BSD1 ✓			
	17	17	0605136-04 ✓			
	18	18	05 ✓			
	19	19	06 ✓			
	20	20	06MS ✓			
	21	21	Hexane			
	22	22	Pest 20 cc		2DT/methoxy/dec low-front	
	22	22	Pest 20 cc ✓		DDT/methoxy/dec low-front	
	23	23	PEM ✓			
	24	24	Pest 50 cc			
6/14/06	24	GE0614GB-24	Pest 50 cc ✓	8081EF	OK	SB

CONTROL NUMBER 60.0012-0602A

PAGE_____

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Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06146B\002F0101.D Vial: 2
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06146B\002F0101.D\002R0101.D
Acq On : 14 Jun 06 01:33 PM Operator: [GC]2R0101.D\DATA.MS
Sample : PEM Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 15 16:22 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EF.M
Title :
Last Update : Thu Jun 15 06:45:03 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.52	8.65	3505944	1090505	50.105	45.441
					Recovery	=	100.21%	90.88%
23)	S	Decachlorobiphenyl	17.95	20.55	2107195	898001	42.285	41.434
					Recovery	=	84.57%	82.87%
		Target Compounds						
2)	M	Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3)	M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	M	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
5)	M	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6)	M	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	M	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
8)	M	Aldrin	0.00	0.00	0	0	N.D.	N.D.
9)	M	Heptachlor Epoxide	0.00	0.00	0	0	N.D.	N.D.
10)	M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12)	M	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	M	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
14)	M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15)	M	Endrin	13.91	15.23	4829301	1686915	111.290	104.112m
16)	M	4,4'-DDD	0.00	15.34	0	39923	N.D.d	3.663m
17)	M	Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18)	M	4,4'-DDT	14.47	15.87	4722889	1704125	103.590	108.253
19)	M	Endrin Aldehyde	0.00	0.00	0	0	N.D.d	N.D.d
20)	M	Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
21)	M	Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22)	M	Endrin Ketone	16.17	17.66	253257	75070	3.044	4.399m#

$\varepsilon \frac{253257}{5082558} = 4.98\%$ DDT $\frac{0}{4722889} = 0\%$

$\varepsilon \frac{75070}{1761985} = 4.26\%$ DDT $\frac{39923}{1744048} = 2.29\%$

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Response Factor Report GC3

Method : Q:\SVOA\GC3_GE\METHODS\8081EF.M
Title :
Last Update : Thu Jun 15 06:45:03 2006
Response via : Initial Calibration

Calibration Files
10 =004F0101.D 20 =005F0101.D 5 =003F0101.D
60 =007F0101.D 80 =008F0101.D 100 =009F0101.D

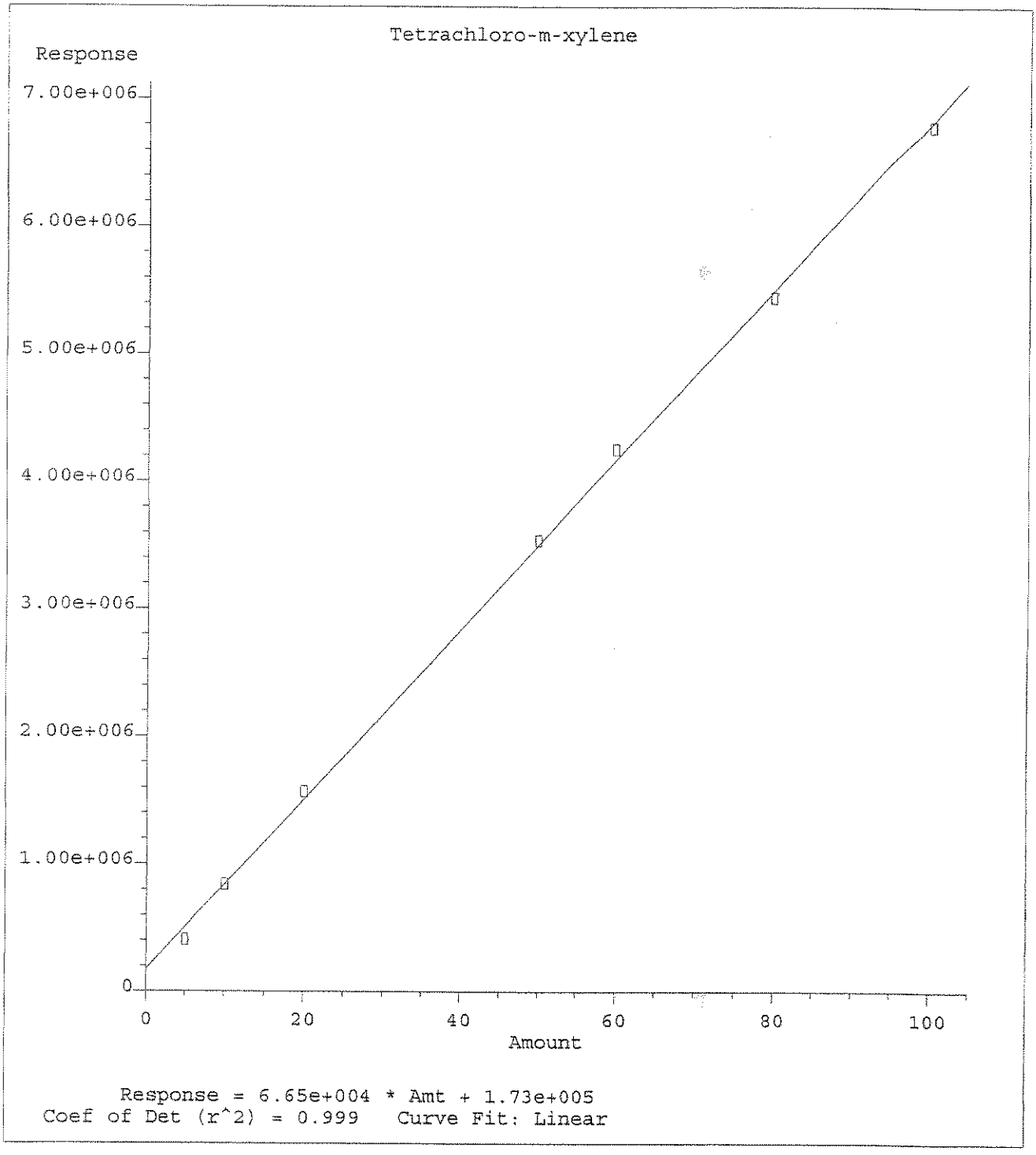
		Compound	10	20	5	60	80	100	Avg		%RSD
1)	S	Tetrachloro-m-xylen	83.8	78.4	81.4	70.8	68.1	67.9	74.4	E3	8.88
2)	M	Hexachlorobenzene	140.3	128.0	141.6	110.3	105.6	101.1	119.8	E3	13.91
3)	M	alpha-BHC	76.0	76.9	71.2	80.4	80.7	79.9	77.7	E3	4.36
4)	M	gamma-BHC (Lindane)	75.4	74.3	71.3	74.9	74.6	73.5	73.9	E3	1.83
5)	M	beta-BHC	43.9	42.6	41.9	41.0	40.4	39.6	41.4	E3	3.53
6)	M	delta-BHC	67.3	67.8	62.8	73.7	74.1	73.5	70.1	E3	6.07
7)	M	Heptachlor	81.5	78.9	81.5	75.2	74.1	72.0	76.9	E3	4.87
8)	M	Aldrin	65.9	65.5	64.5	66.1	65.7	64.7	65.4	E3	0.94
9)	M	Heptachlor Epoxide	65.6	64.2	65.1	61.9	61.1	59.9	62.8	E3	3.47
10)	M	gamma-Chlordane	65.9	64.5	64.5	62.8	62.2	61.2	63.4	E3	2.60
11)	M	alpha-Chlordane	72.1	65.8	80.7	60.9	59.8	58.5	65.6	E3	12.41
12)	M	4,4'-DDE	62.0	59.6	63.7	57.9	57.6	56.6	59.3	E3	4.50
13)	M	Endosulfan I	63.9	61.8	62.8	60.6	60.2	59.4	61.3	E3	2.64
14)	M	Dieldrin	55.6	55.1	53.8	55.8	55.8	55.3	55.2	E3	1.25
15)	M	Endrin	43.2	43.2	42.6	43.5	43.9	43.1	43.2	E3	0.99
16)	M	4,4'-DDD	45.7	46.0	44.1	47.7	48.2	48.4	46.7	E3	3.34
17)	M	Endosulfan II	53.5	52.8	52.0	51.9	51.7	51.1	52.1	E3	1.65
18)	M	4,4'-DDT	54.5	44.6	50.5	45.2	46.7	45.5	47.4	E3	7.98
19)	M	Endrin Aldehyde	49.6	47.5	48.7	46.1	45.6	44.6	46.8	E3	3.91
20)	M	Methoxychlor	26.9	27.6	25.1	28.2	28.4	27.3	27.2	E3	4.04
21)	M	Endosulfan Sulfate	49.5	47.7	48.4	50.5	49.9	48.7	49.0	E3	2.00
22)	M	Endrin Ketone	65.0	64.7	61.1	64.8	62.0	60.6	63.0	E3	2.93
23)	S	Decachlorobiphenyl	57.6	55.4	58.1	50.2	48.9	46.8	52.5	E3	8.54

Signal #2 Calibration Files
10 =004R0101.D 20 =005R0101.D 5 =003R0101.D
60 =007R0101.D 80 =008R0101.D 100 =009R0101.D

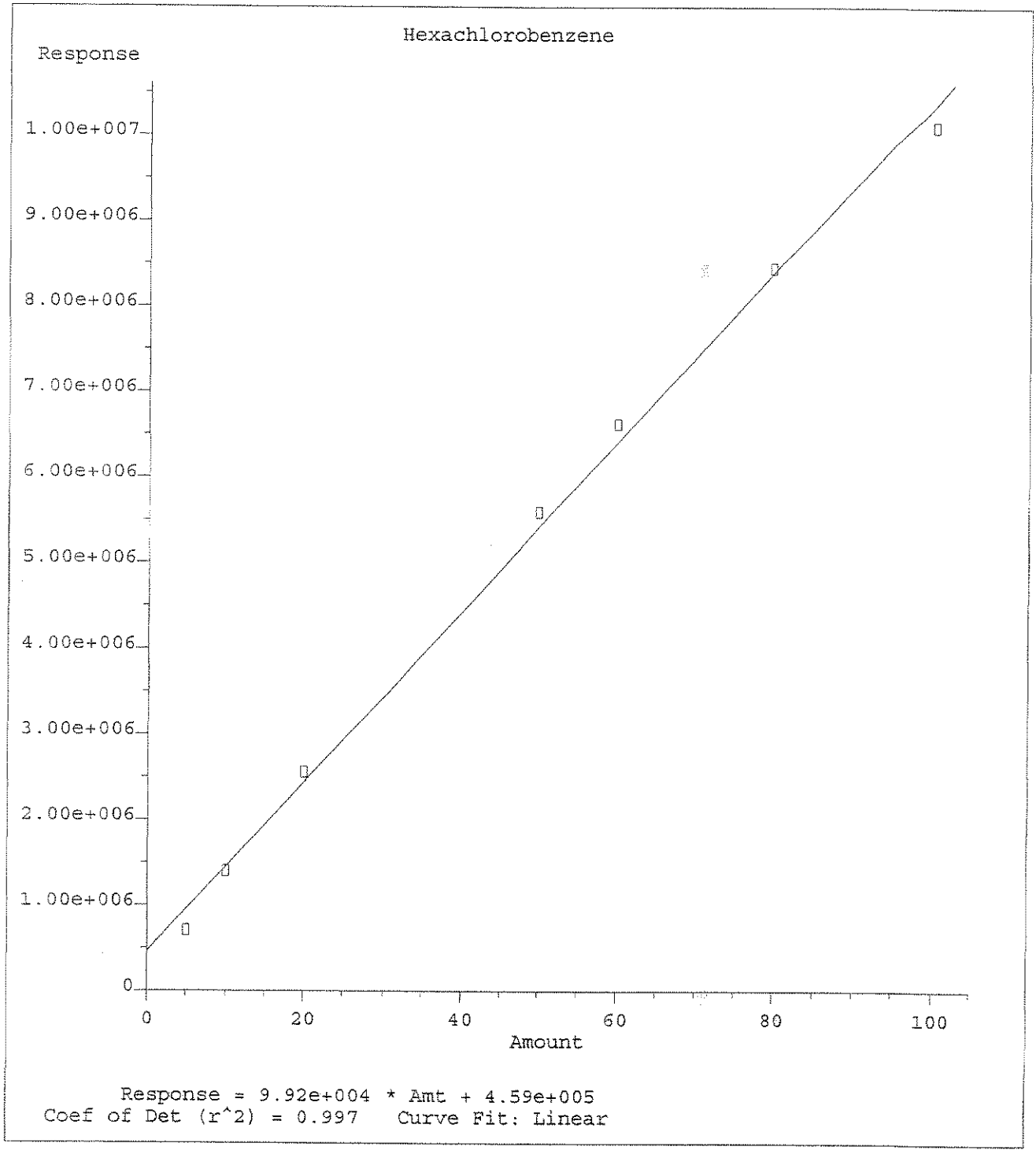
		Compound	10	20	5	60	80	100	Avg		%RSD
1)	S	Tetrachloro-m-xylen	23.0	23.1	22.8	24.2	24.3	24.1	23.6	E3	2.71
2)	M	Hexachlorobenzene	41.7	41.0	40.1	39.8	39.3	38.4	40.0	E3	2.72
3)	M	alpha-BHC	20.1	22.3	18.5	28.2	29.6	30.1	25.1	E3	18.95
4)	M	gamma-BHC (Lindane)	21.2	22.6	19.0	27.0	27.9	28.1	24.6	E3	14.77
5)	M	beta-BHC	13.5	13.7	13.8	14.3	14.4	14.3	14.0	E3	2.53
6)	M	delta-BHC	19.5	21.4	18.4	26.2	27.3	27.5	23.6	E3	16.14
7)	M	Heptachlor	23.0	23.4	20.6	26.0	26.7	26.6	24.5	E3	9.14
8)	M	Aldrin	20.9	21.5	19.8	24.5	25.2	25.3	23.0	E3	9.66
9)	M	Heptachlor Epoxide	24.2	23.1	25.6	23.7	23.9	23.7	23.9	E3	3.36
10)	M	gamma-Chlordane	23.3	23.3	22.8	24.2	24.4	24.3	23.7	E3	2.70
11)	M	alpha-Chlordane	22.9	23.0	22.1	23.8	23.9	23.6	23.3	E3	2.58
12)	M	4,4'-DDE	20.2	20.8	19.2	22.6	23.0	23.0	21.5	E3	6.90
13)	M	Endosulfan I	20.0	20.4	20.7	21.9	22.2	22.2	21.2	E3	4.23
14)	M	Dieldrin	19.2	19.4	18.9	21.7	22.2	22.4	20.7	E3	7.25
15)	M	Endrin	13.9	14.2	16.6	15.7	16.3	16.3	15.5	E3	6.83
16)	M	4,4'-DDD	15.9	16.1	19.0	17.7	18.2	18.2	17.5	E3	6.58
17)	M	Endosulfan II	23.8	20.1	23.1	20.5	20.9	20.8	21.4	E3	6.81
18)	M	4,4'-DDT	10.8	12.2	9.2	15.0	15.9	15.8	13.3	E3	19.53
19)	M	Endrin Aldehyde	19.2	18.8	19.1	18.5	18.5	18.2	18.6	E3	2.09
20)	M	Methoxychlor	8.1	9.1	8.2	10.1	10.3	9.8	9.3	E3	9.54
21)	M	Endosulfan Sulfate	17.8	18.0	18.5	19.0	19.2	19.1	18.6	E3	2.91
22)	M	Endrin Ketone	23.7	24.4	23.5	25.6	26.8	26.5	25.1	E3	5.18
23)	S	Decachlorobiphenyl	23.9	23.2	24.3	21.8	21.5	20.7	22.4	E3	6.04

Linear calibration used

(#) = Out of Range ### Number of calibration levels exceeded format ###
8081EF.M Thu Jun 15 07:52:22 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



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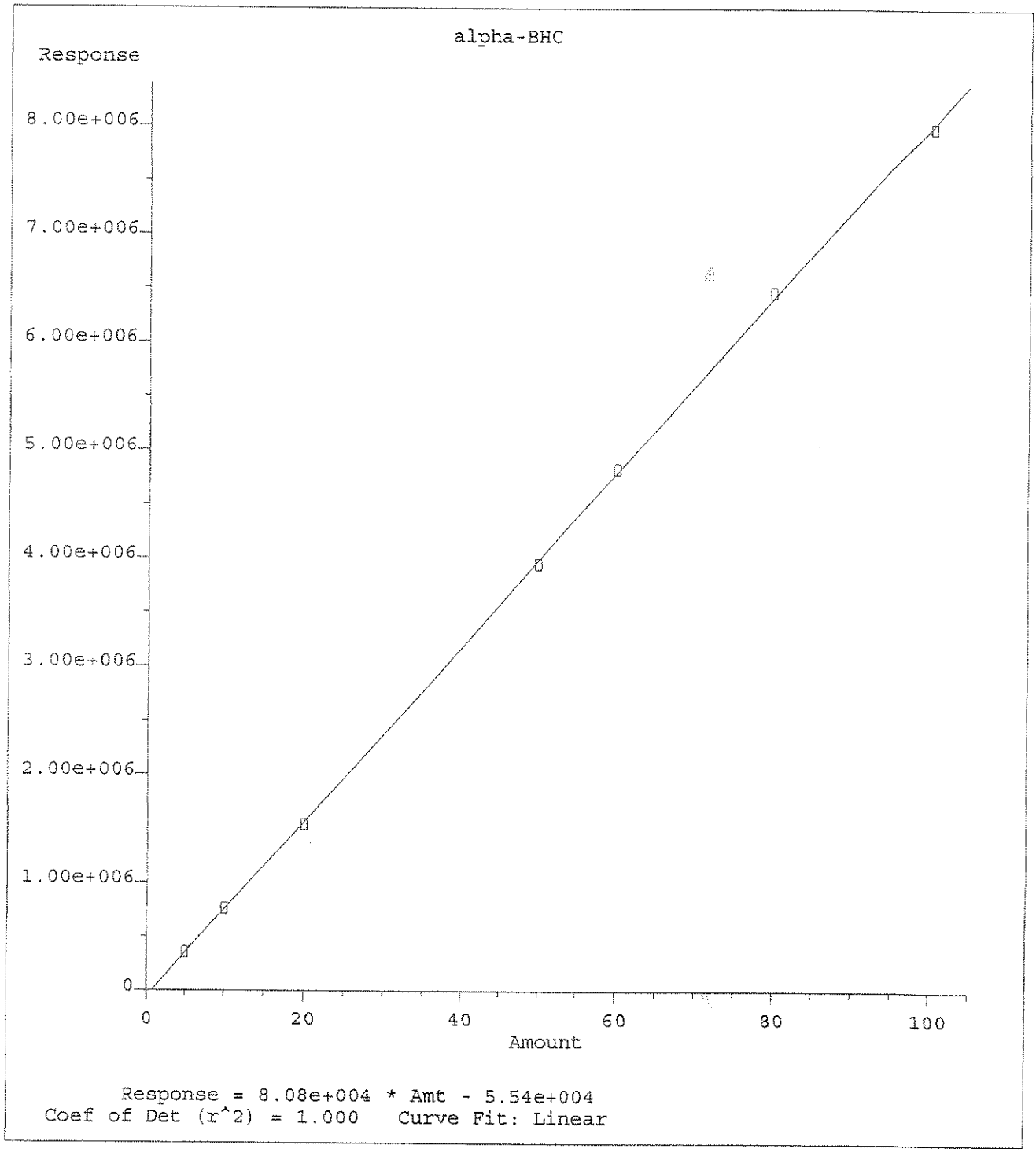
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



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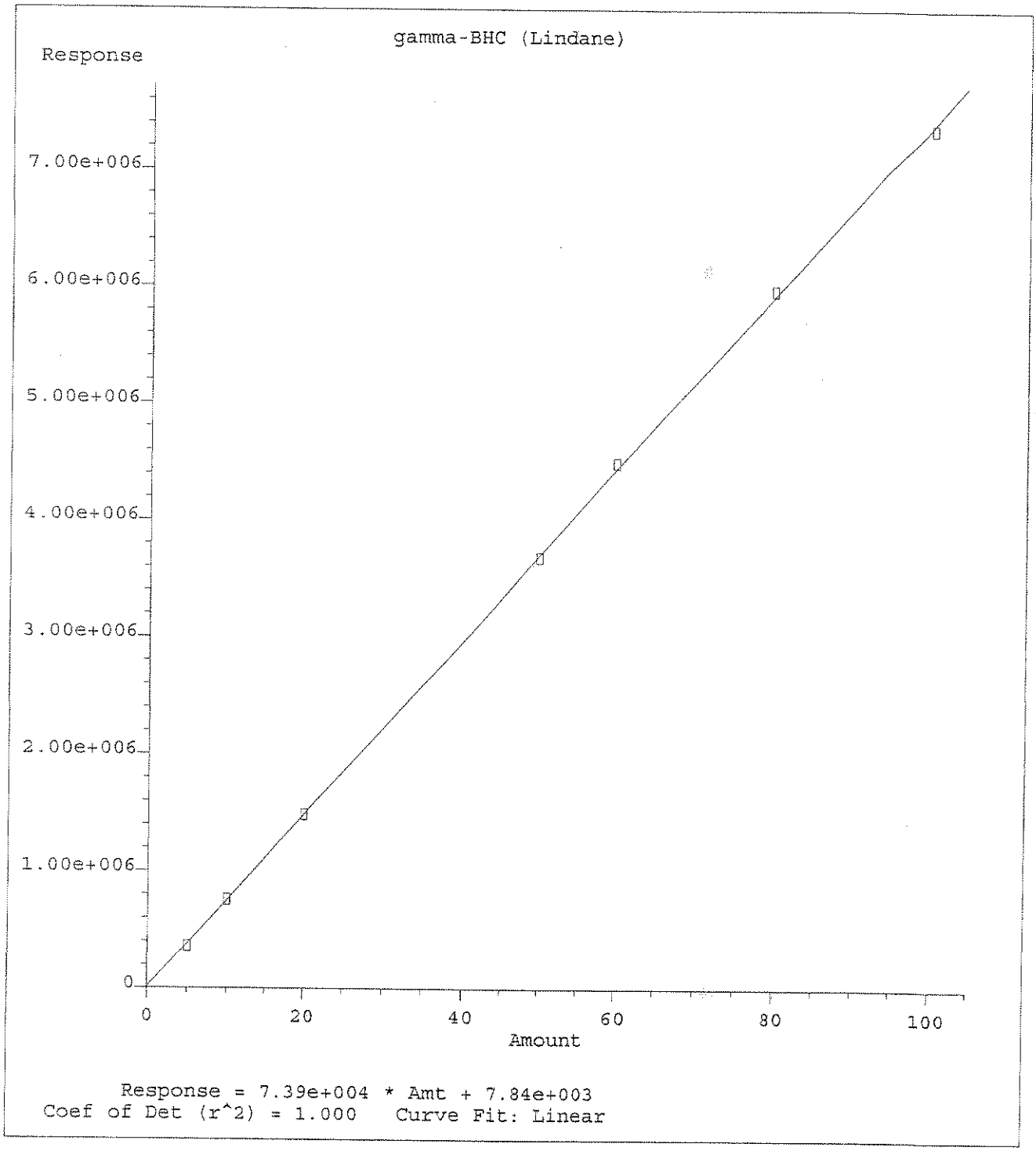
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



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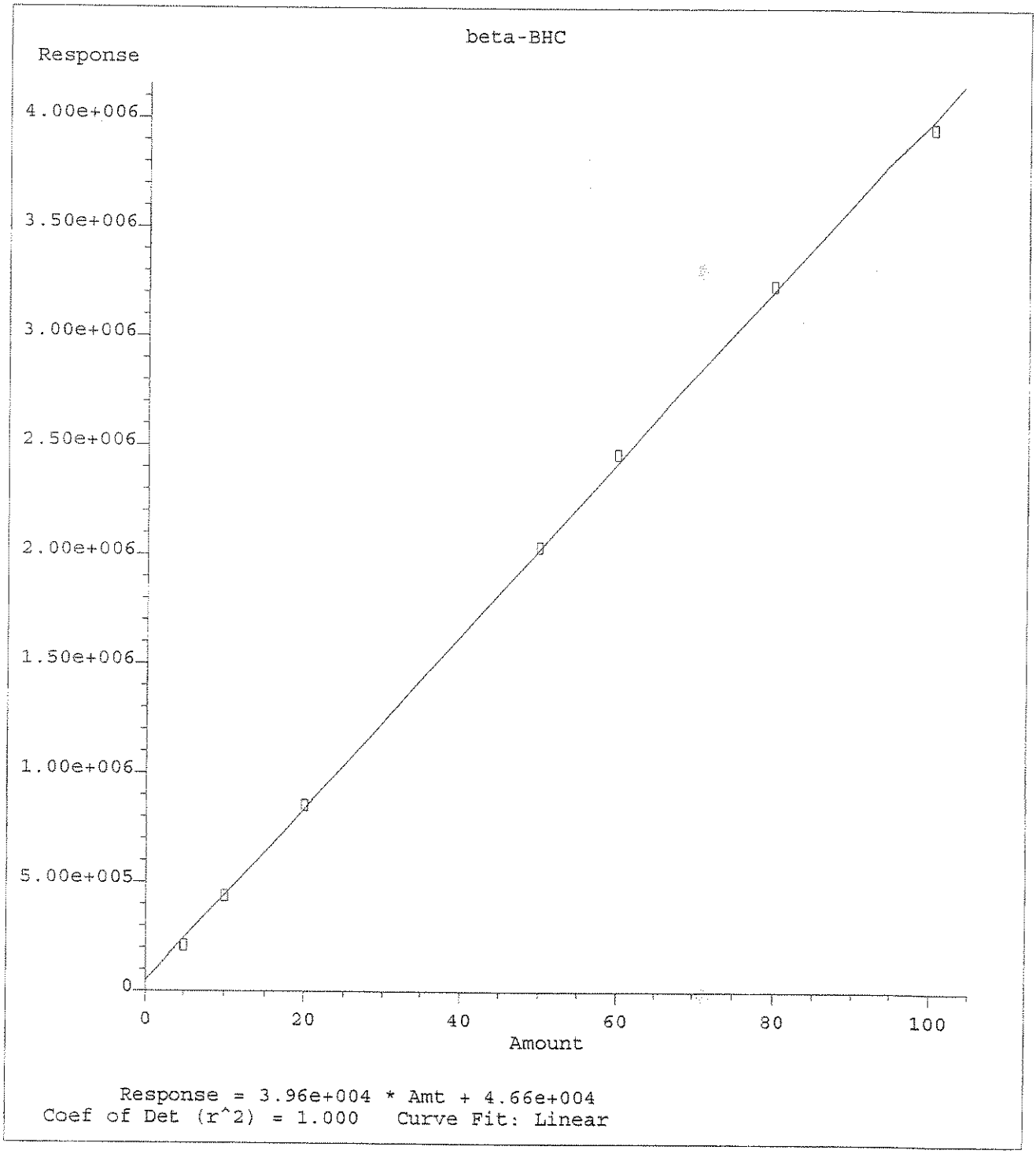
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



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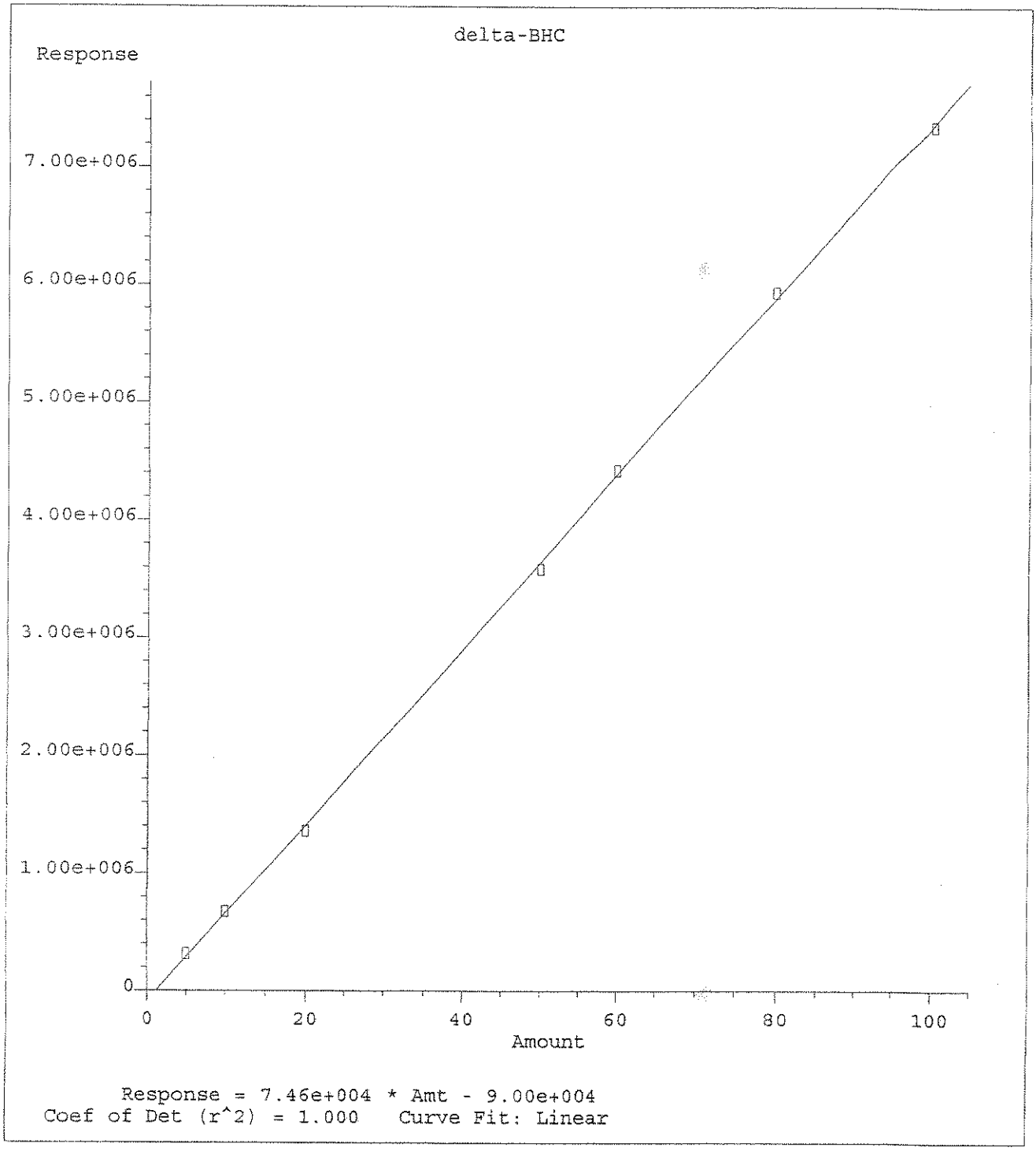
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



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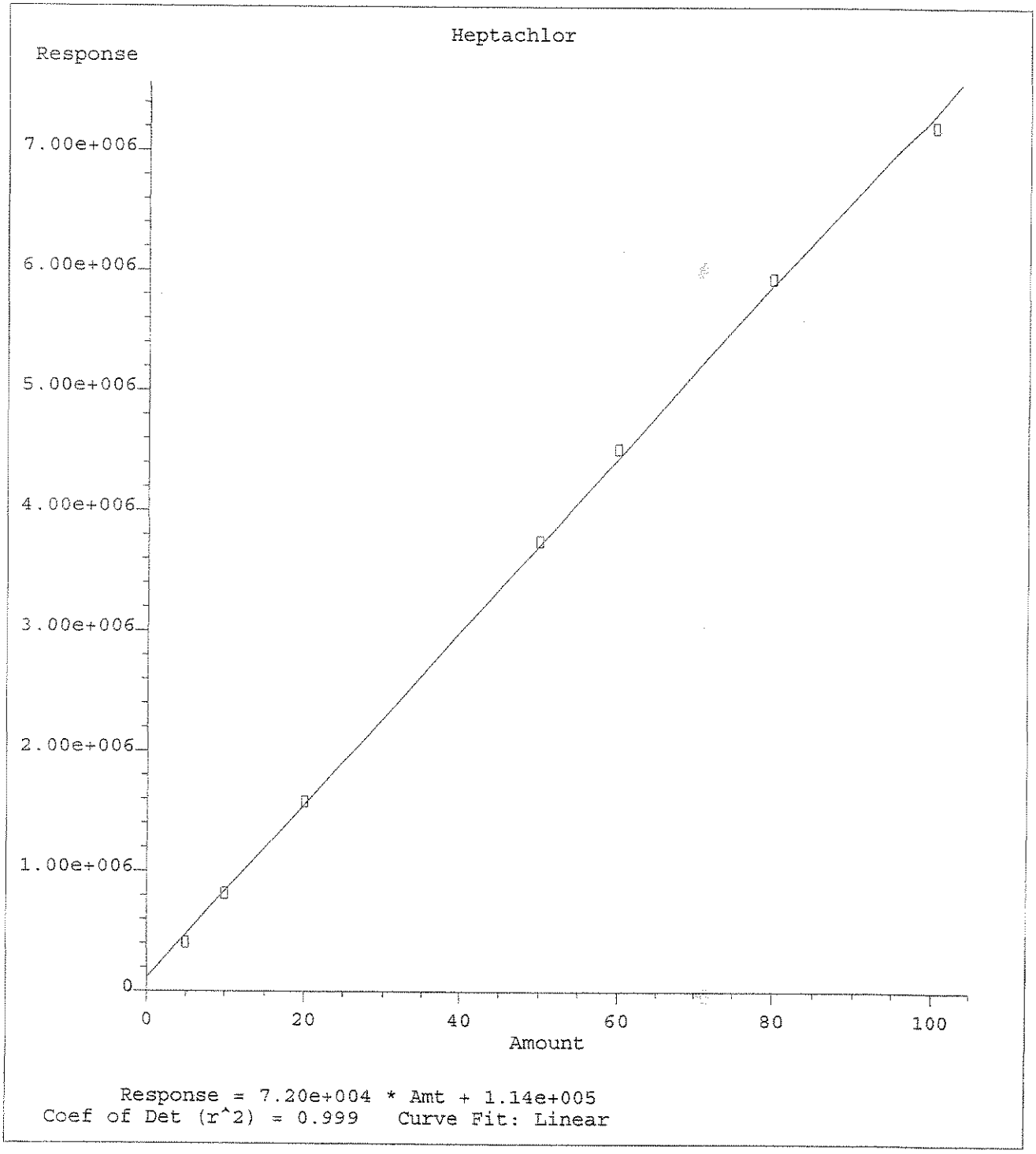
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



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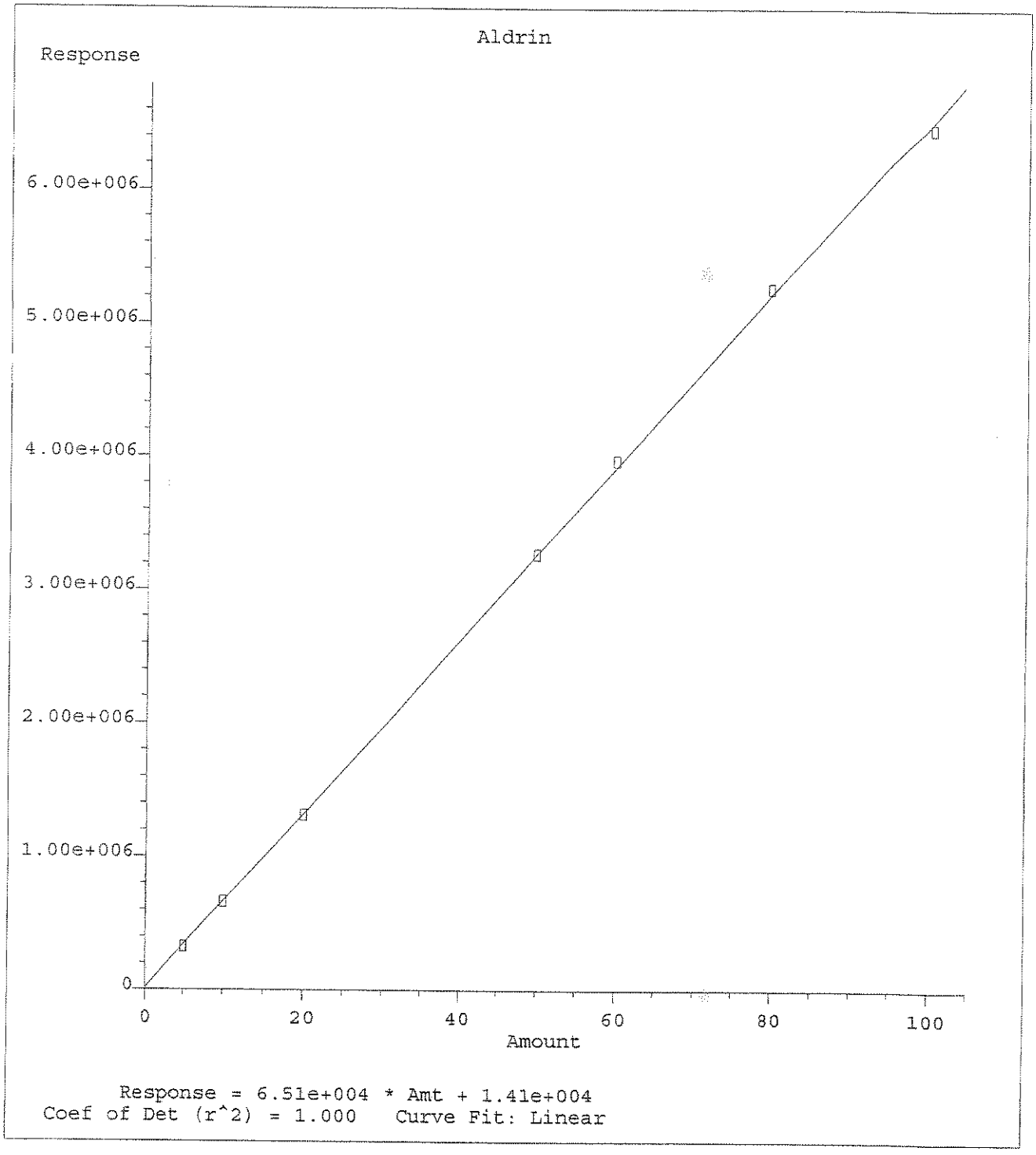

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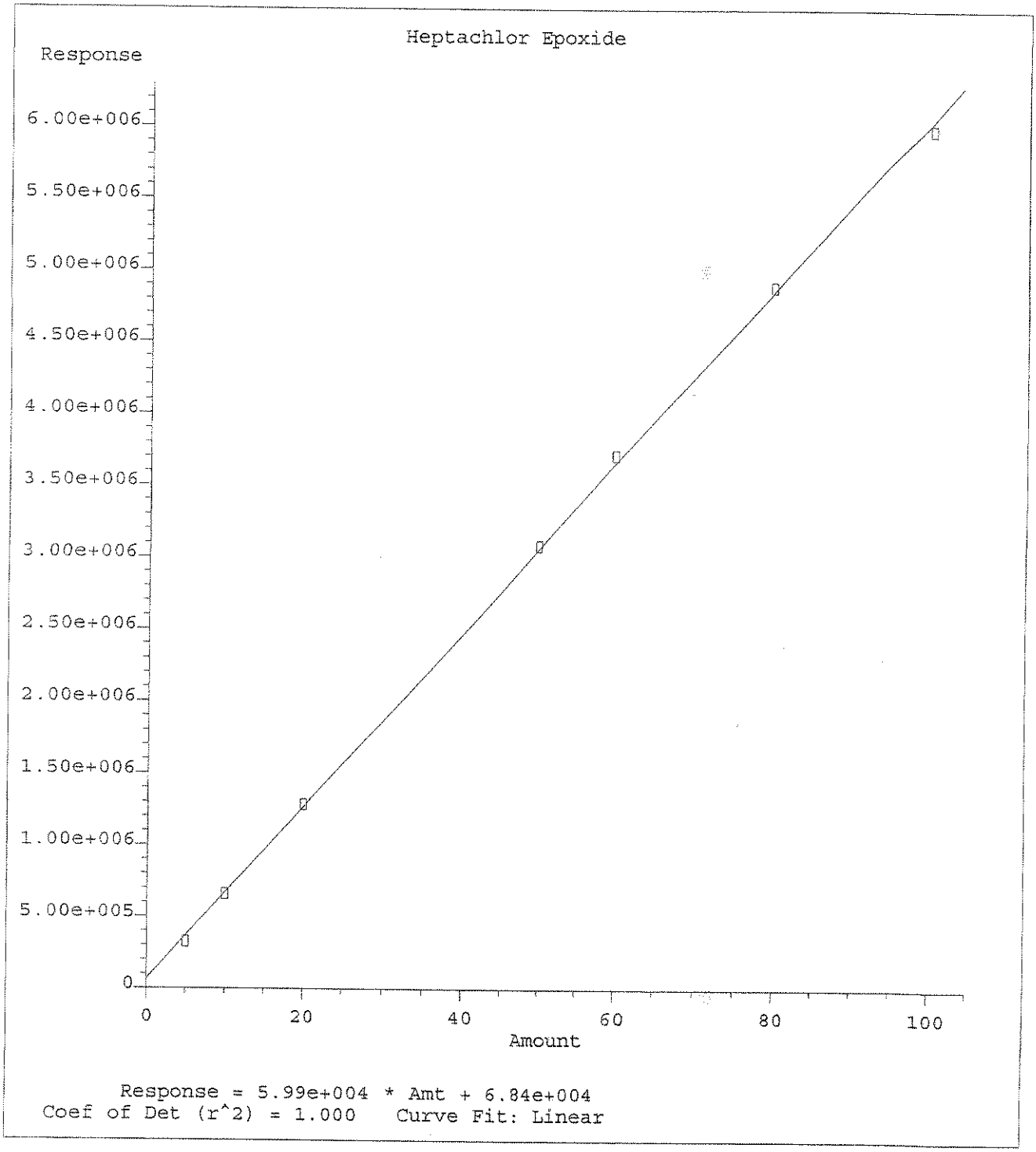
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



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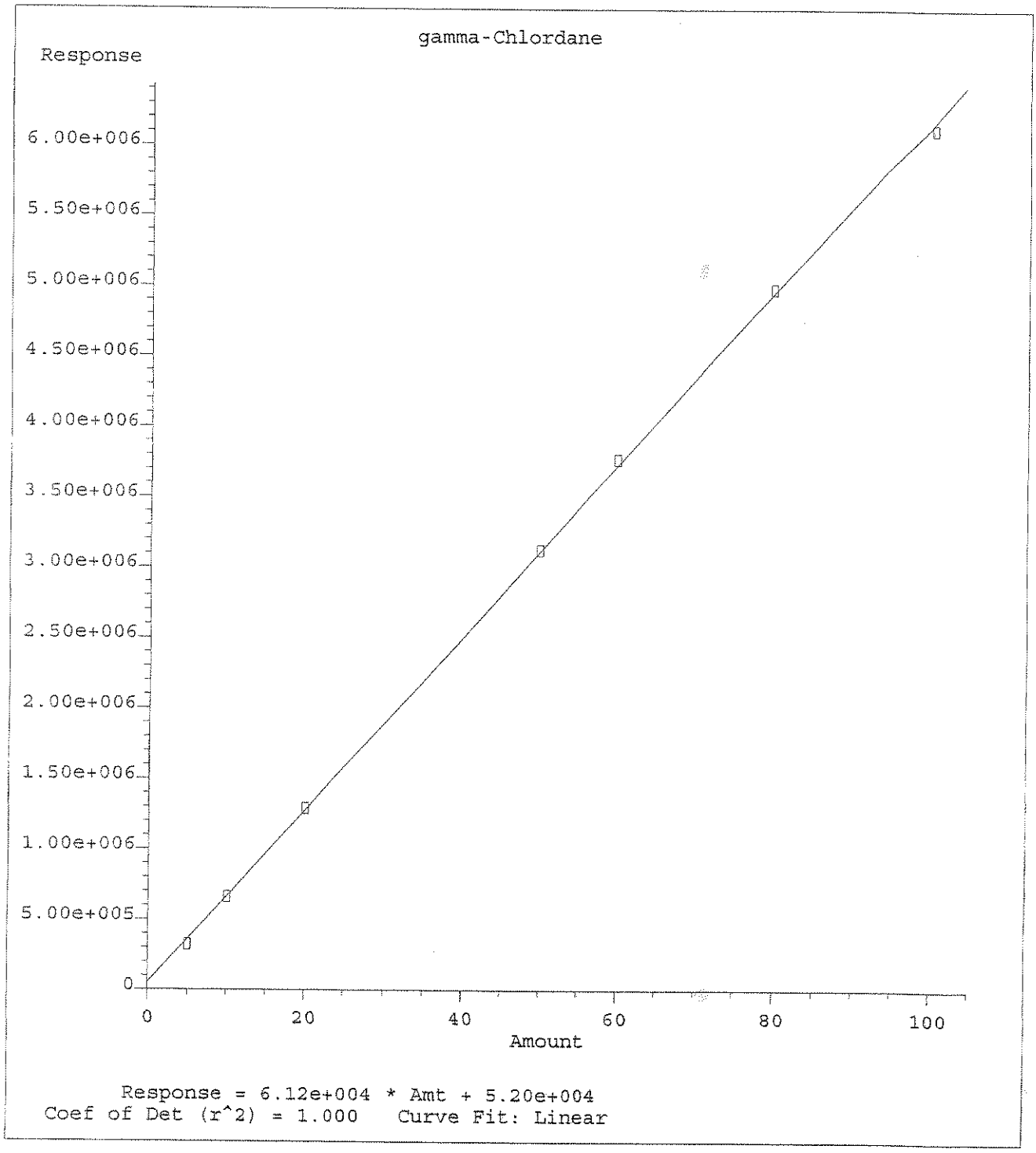
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



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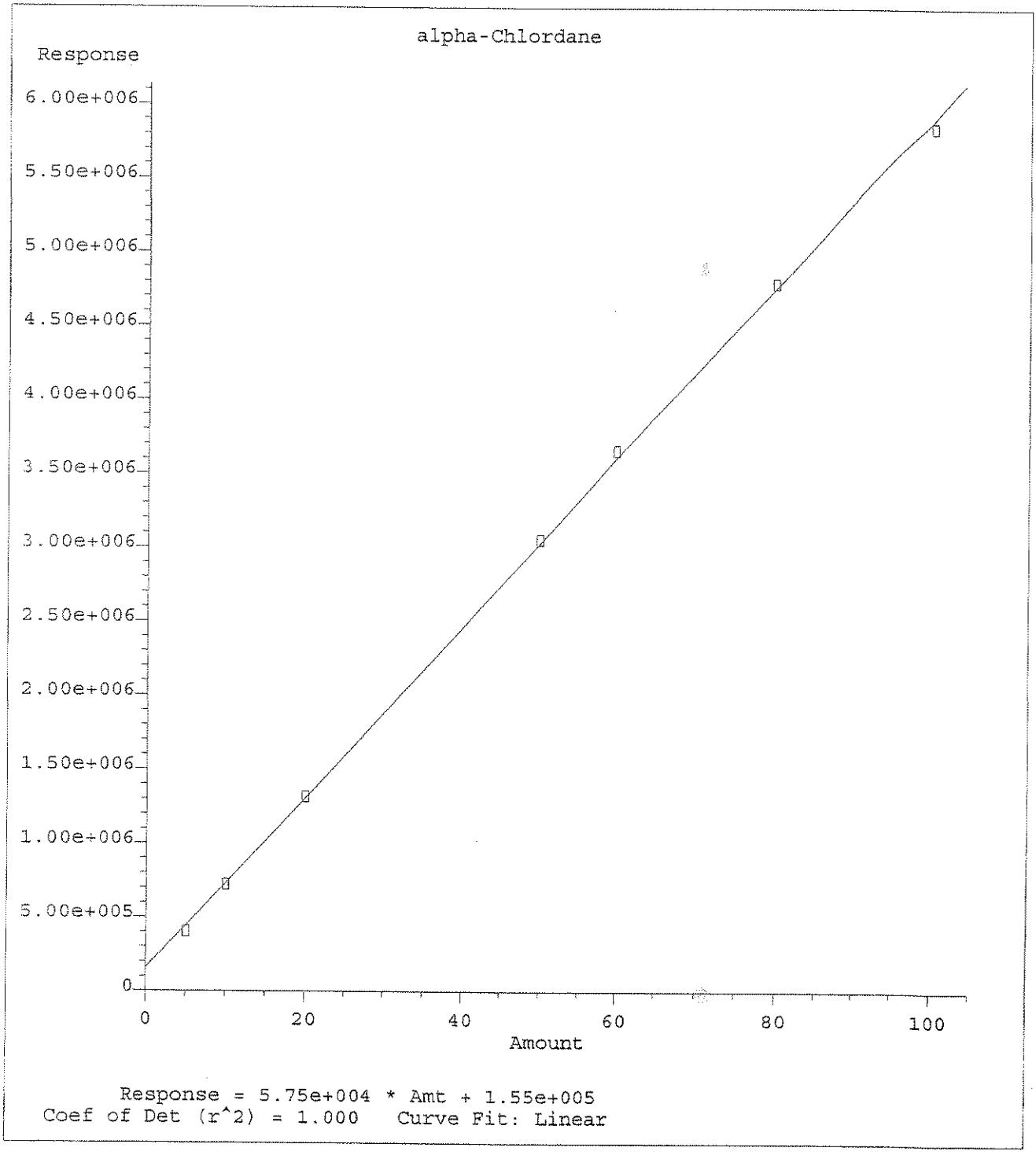

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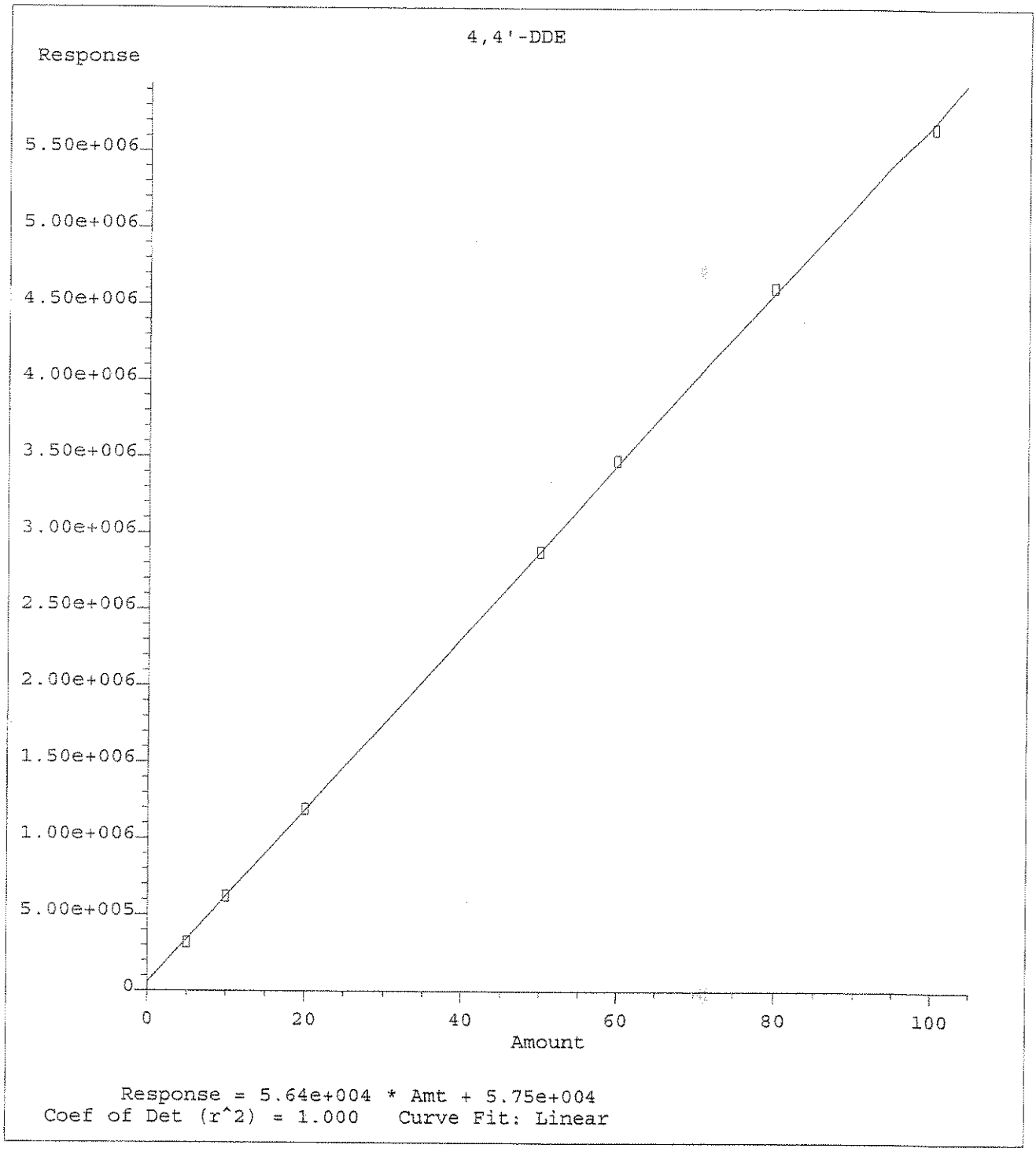
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



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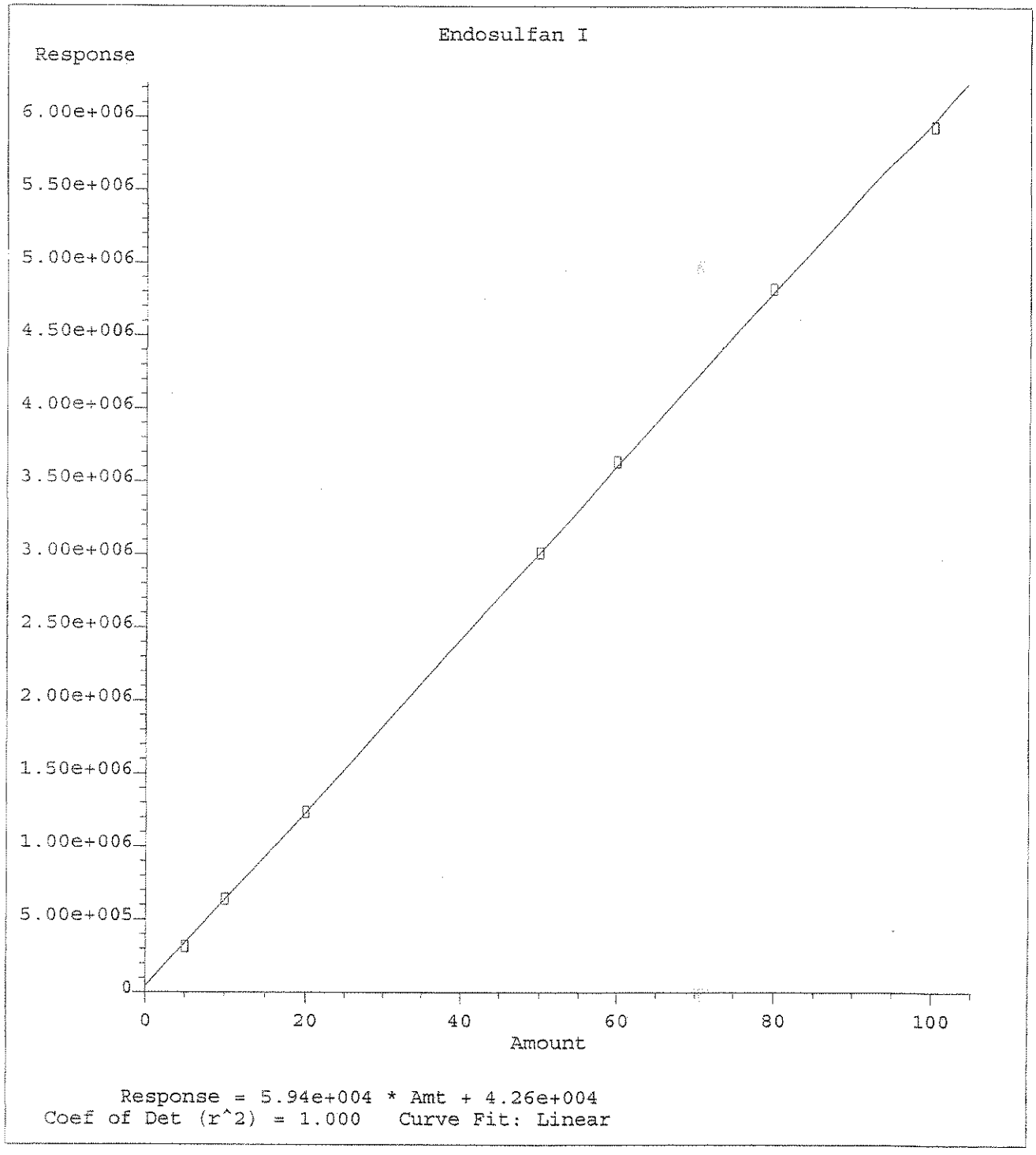
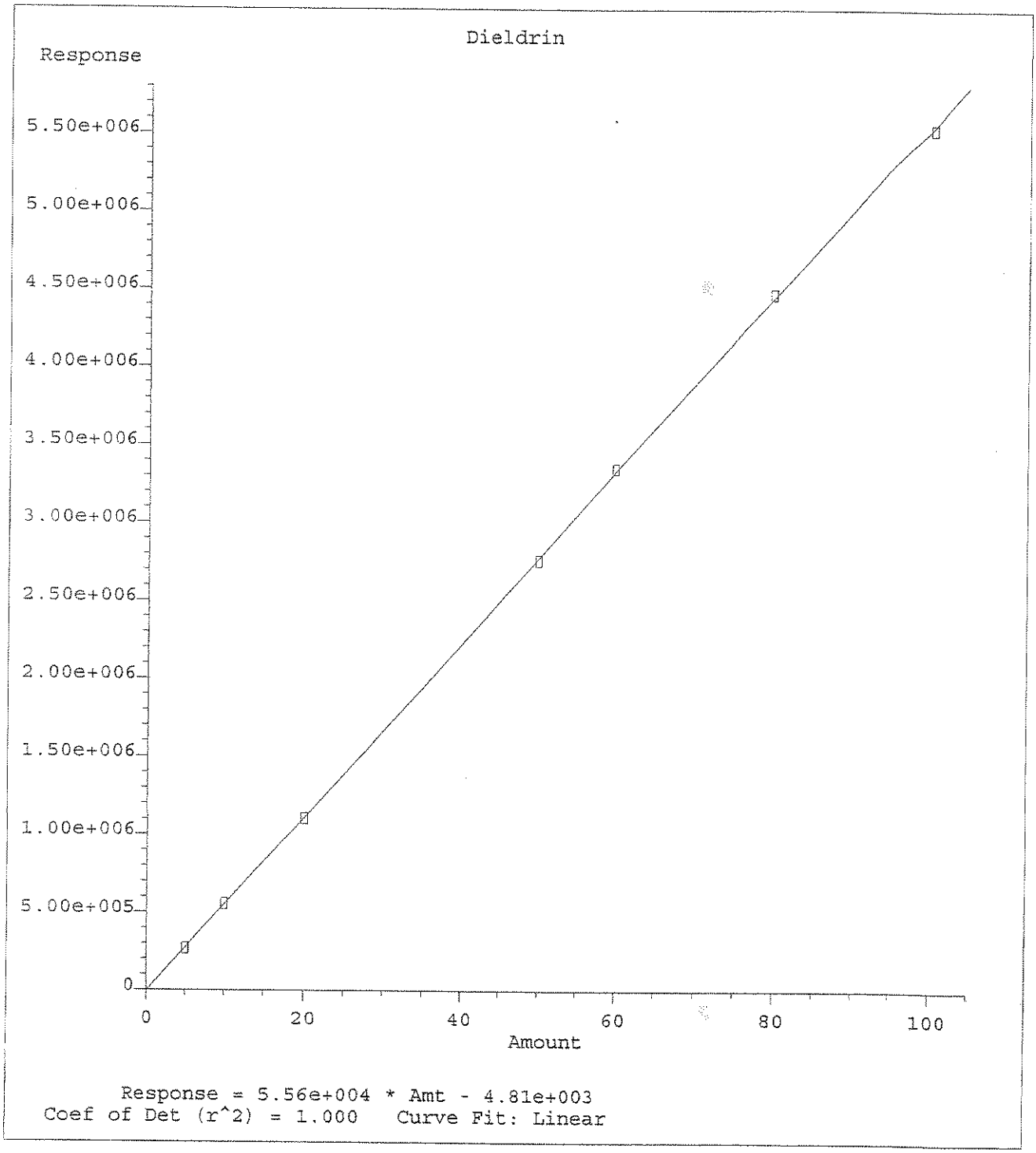
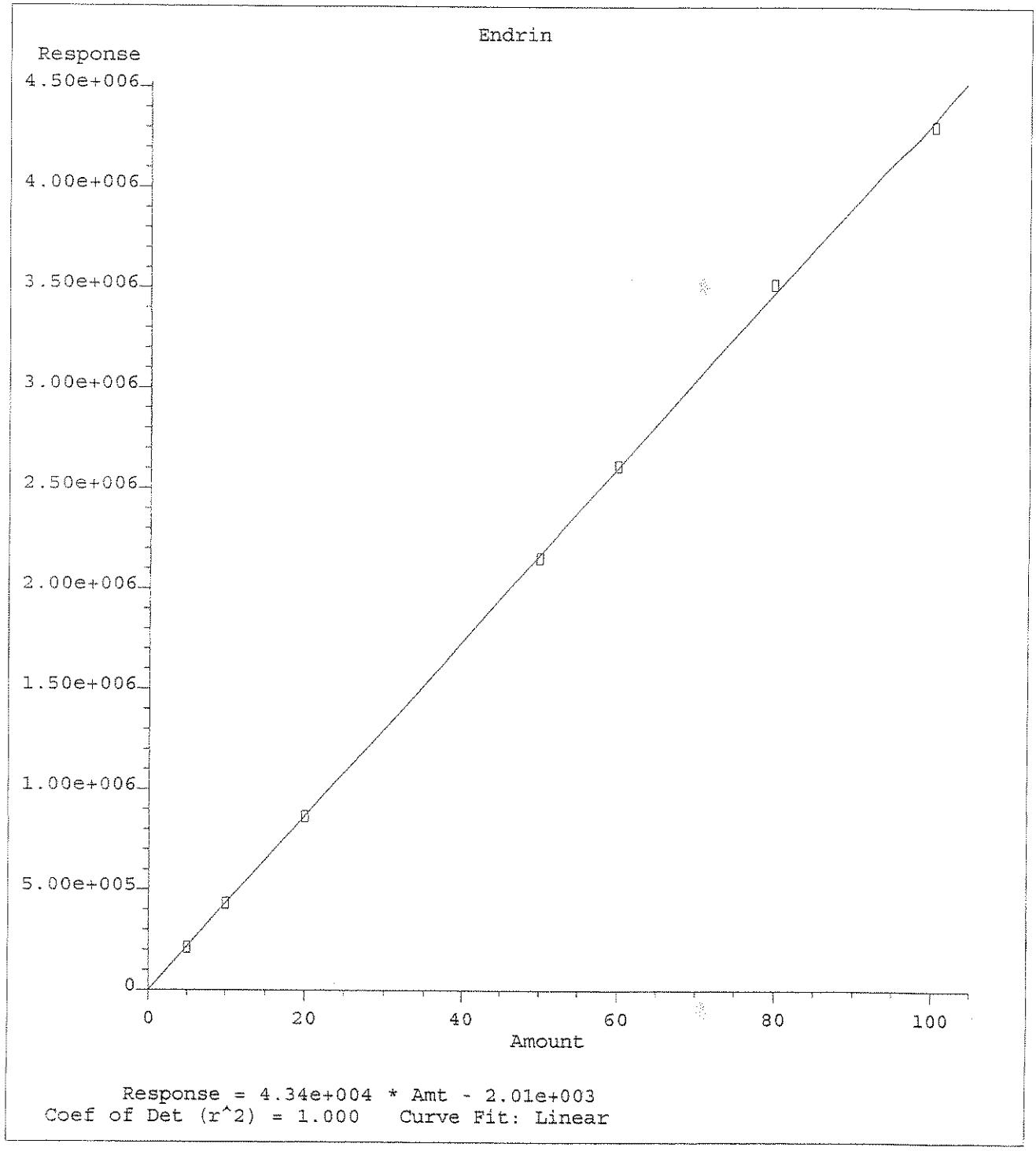
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



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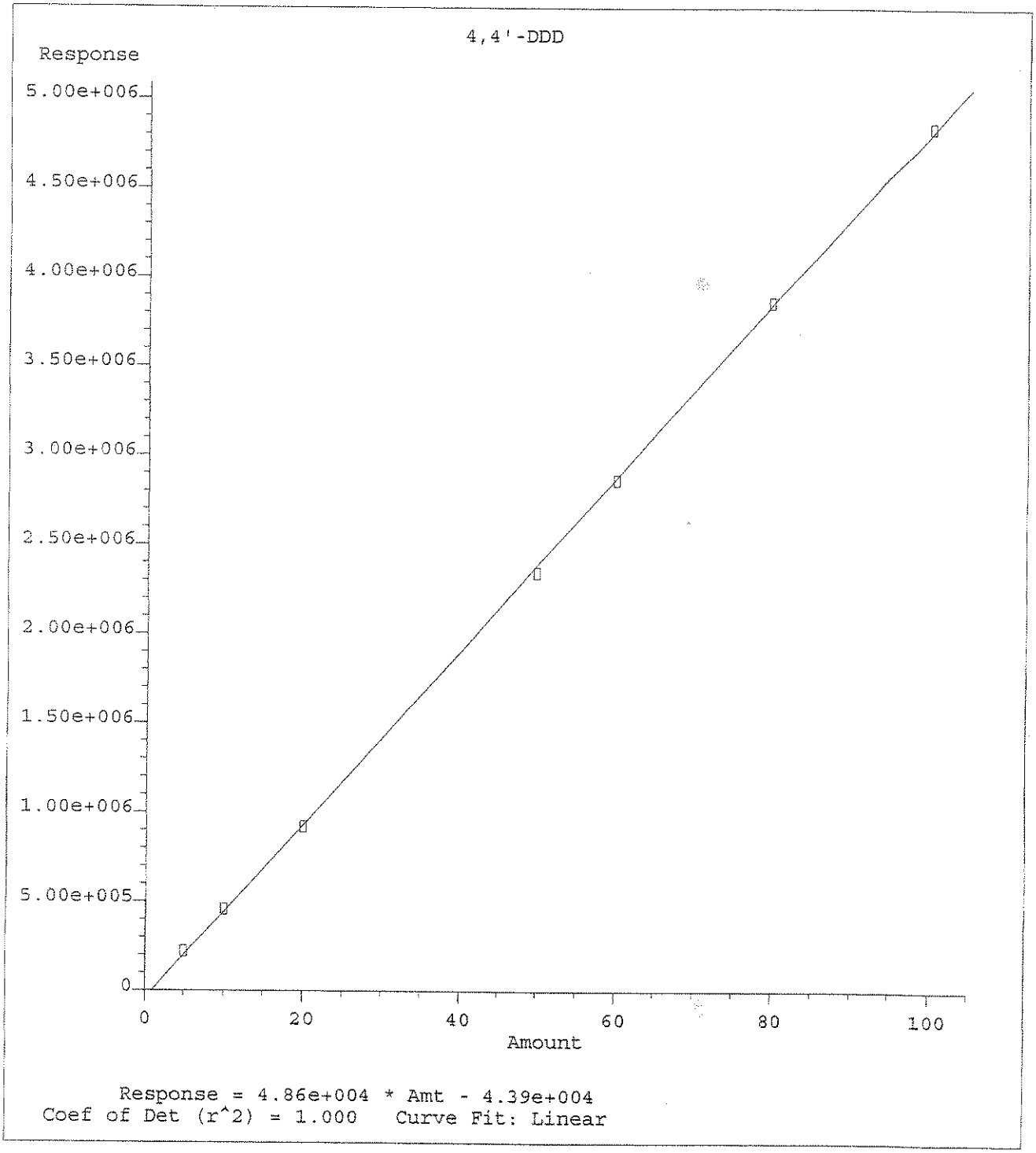
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



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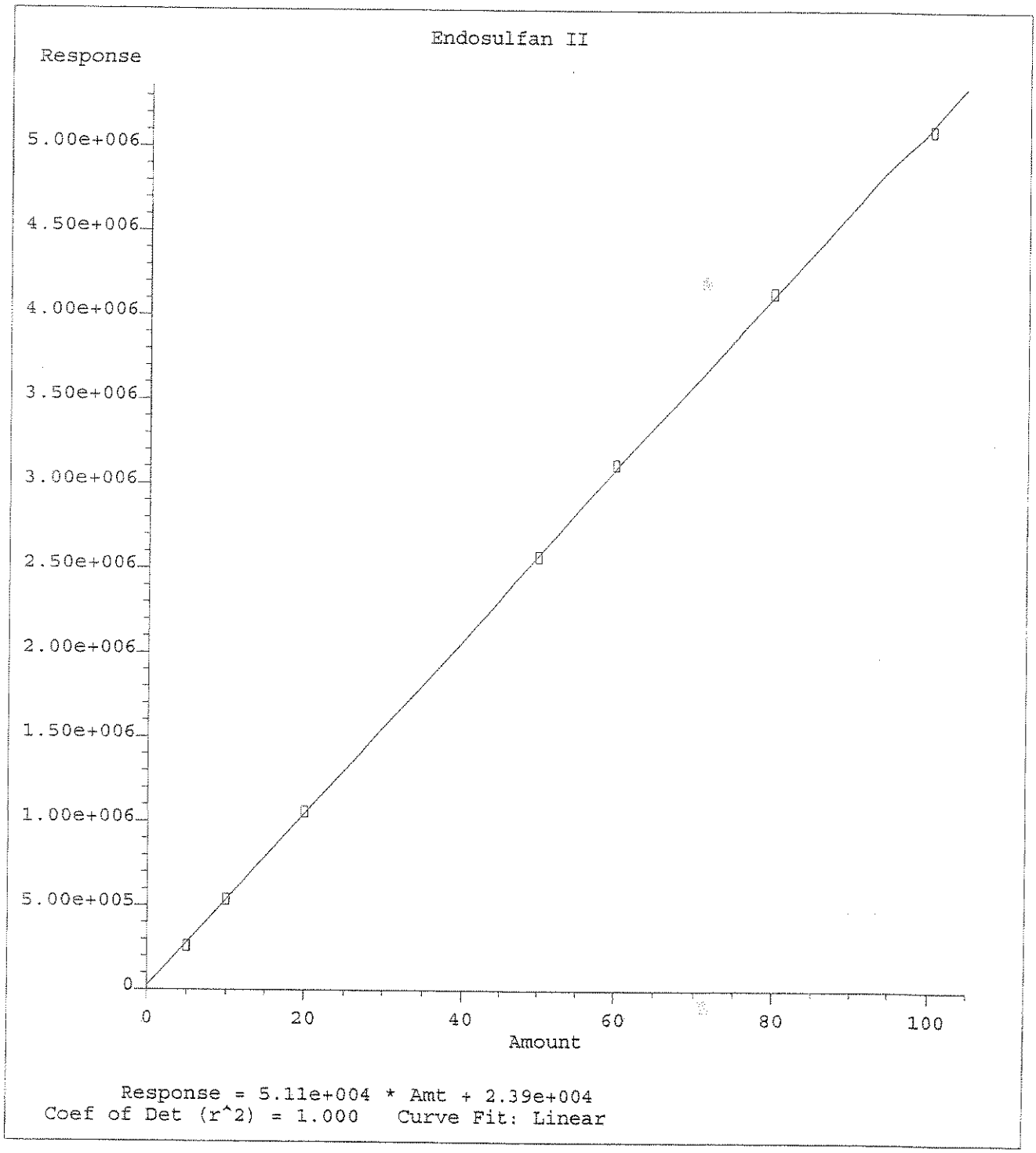
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



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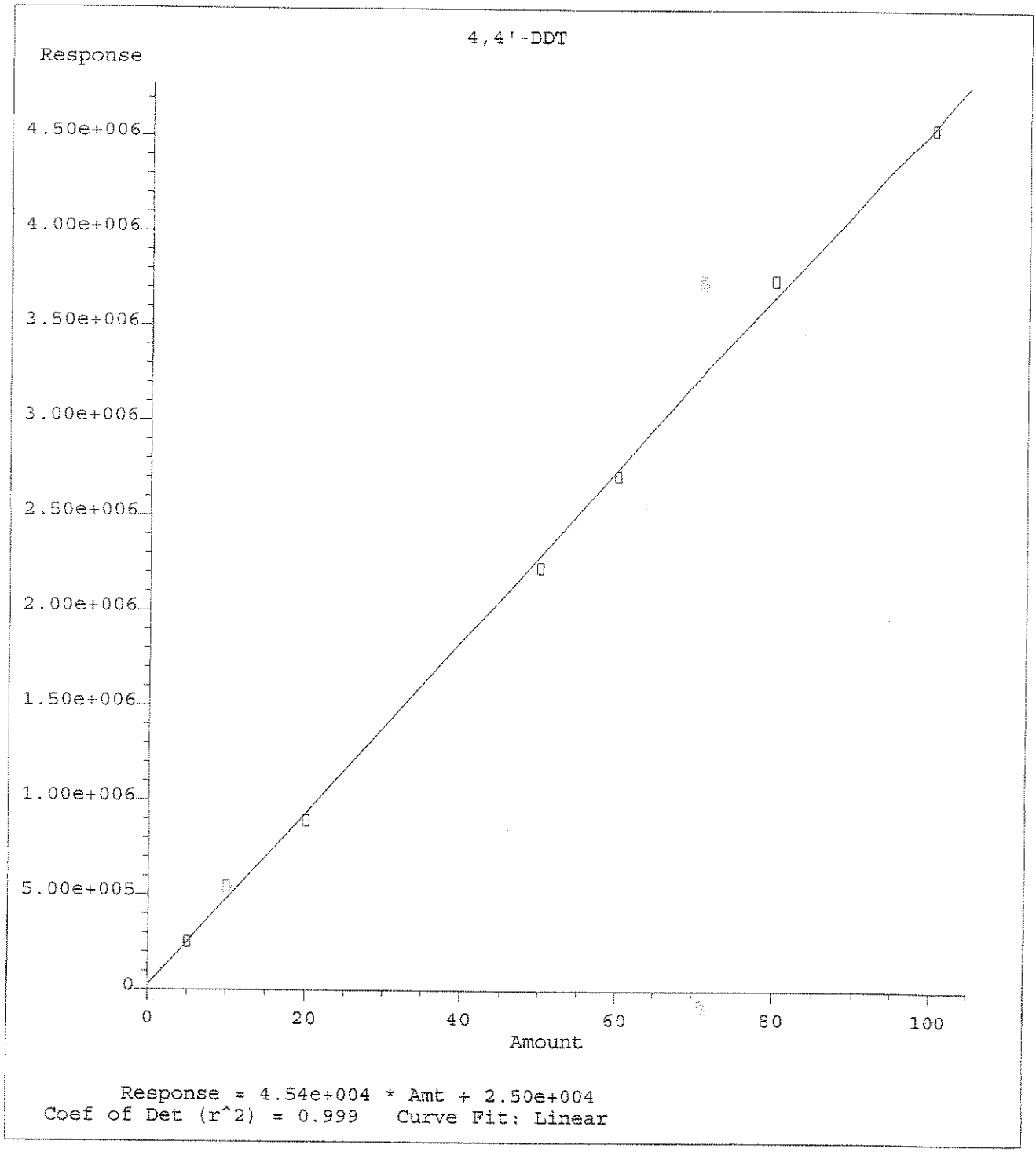
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



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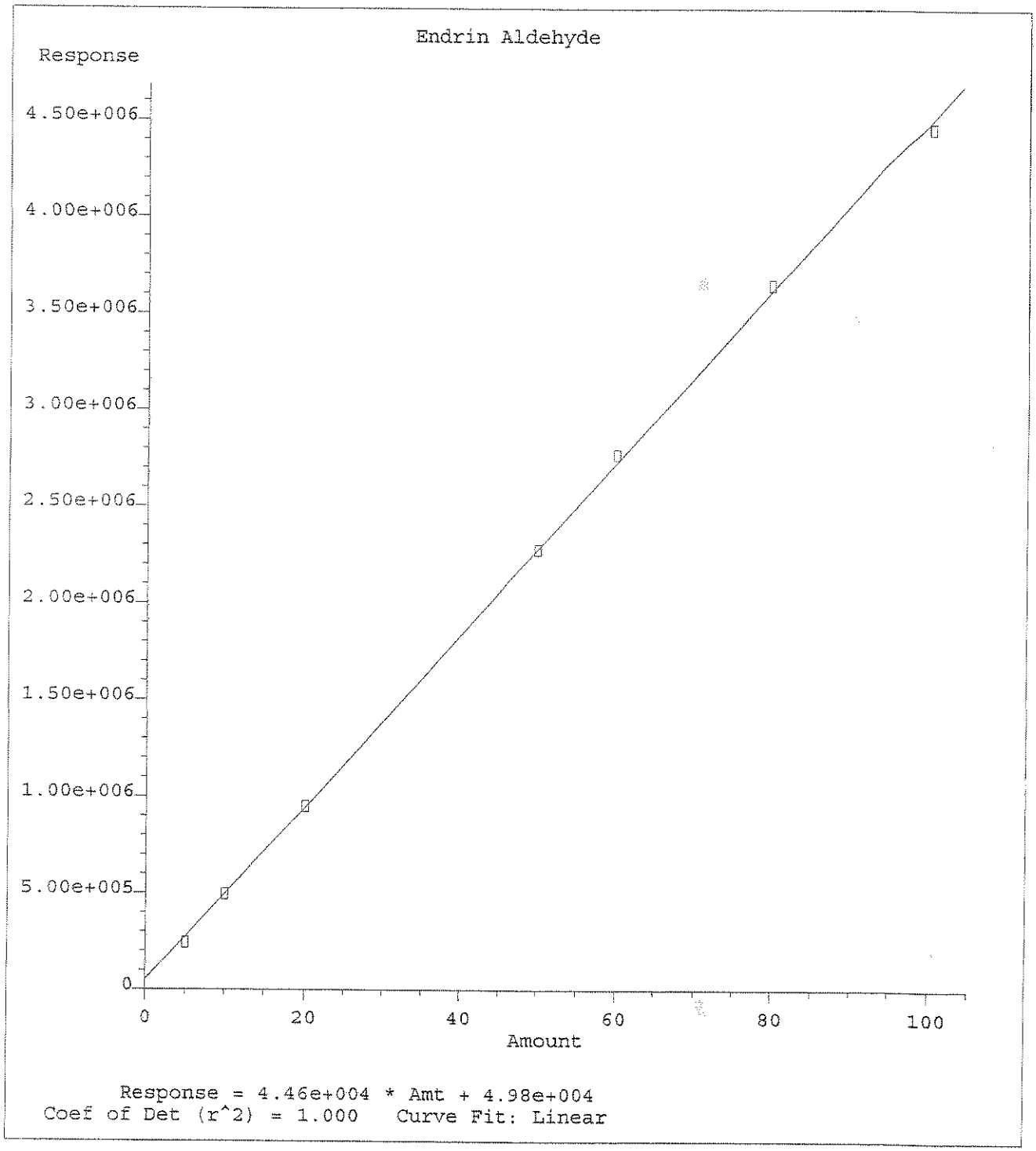
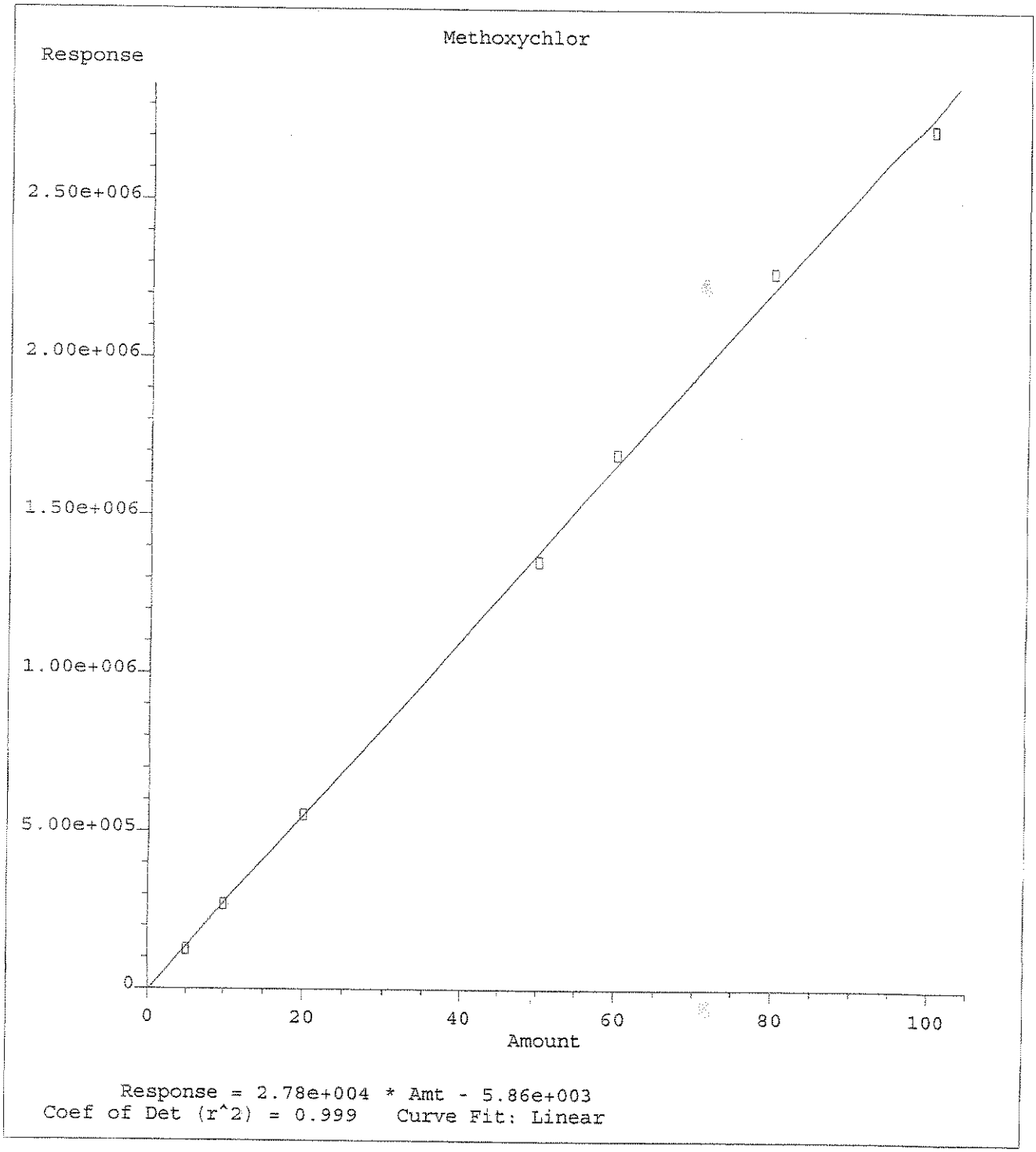
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006

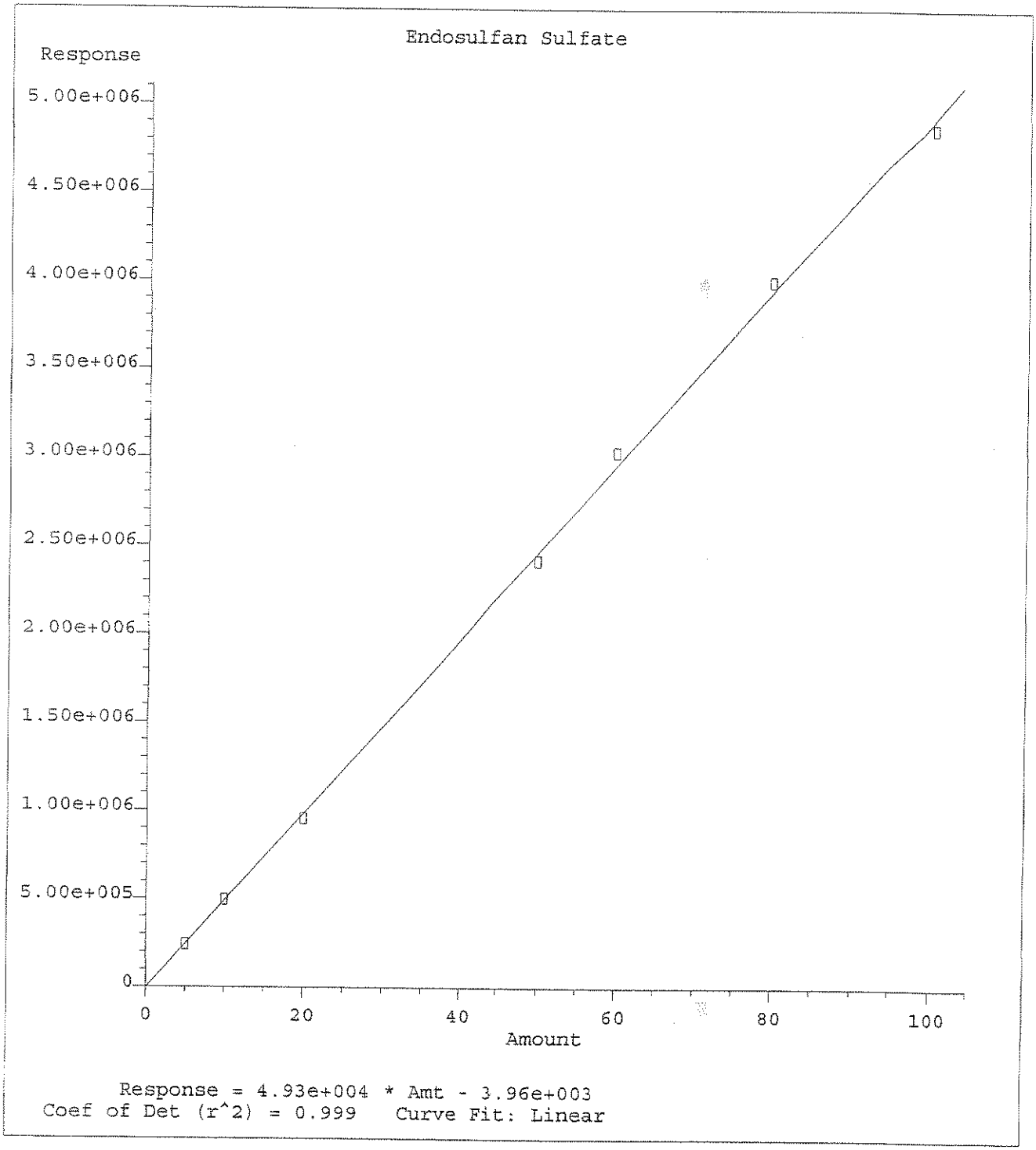


Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006

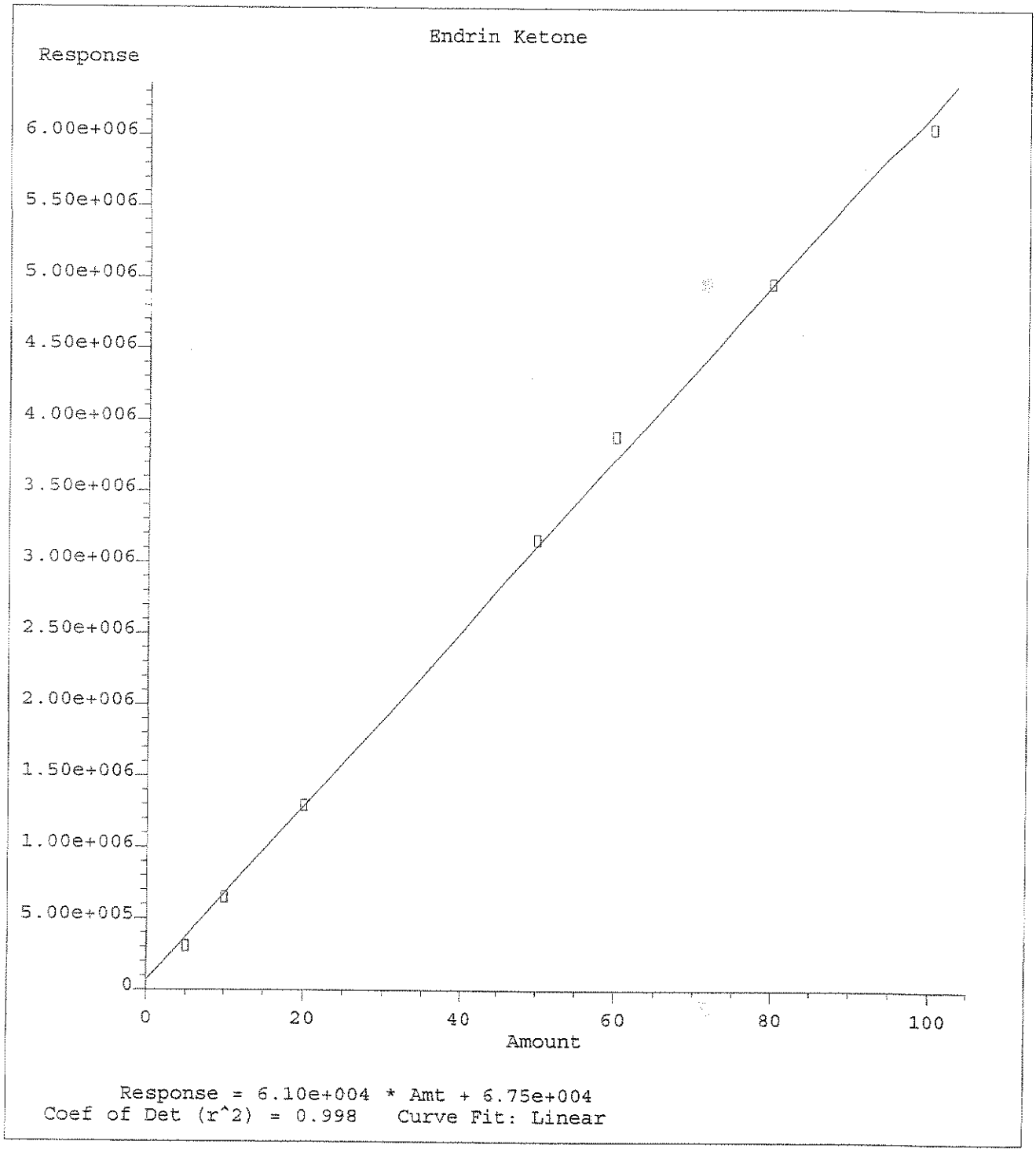


Response = 2.78e+004 * Amt - 5.86e+003
Coef of Det (r^2) = 0.999 Curve Fit: Linear

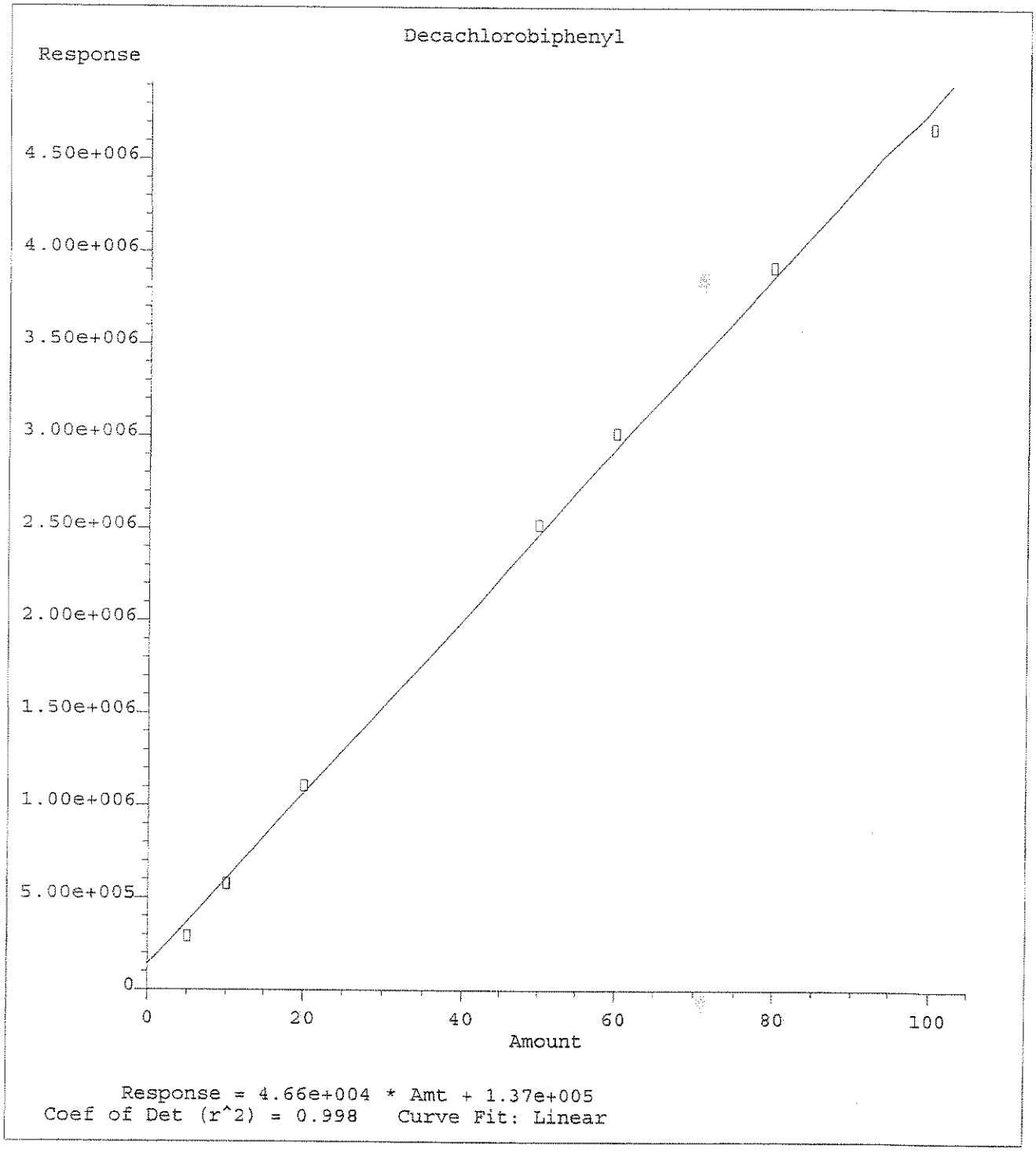
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



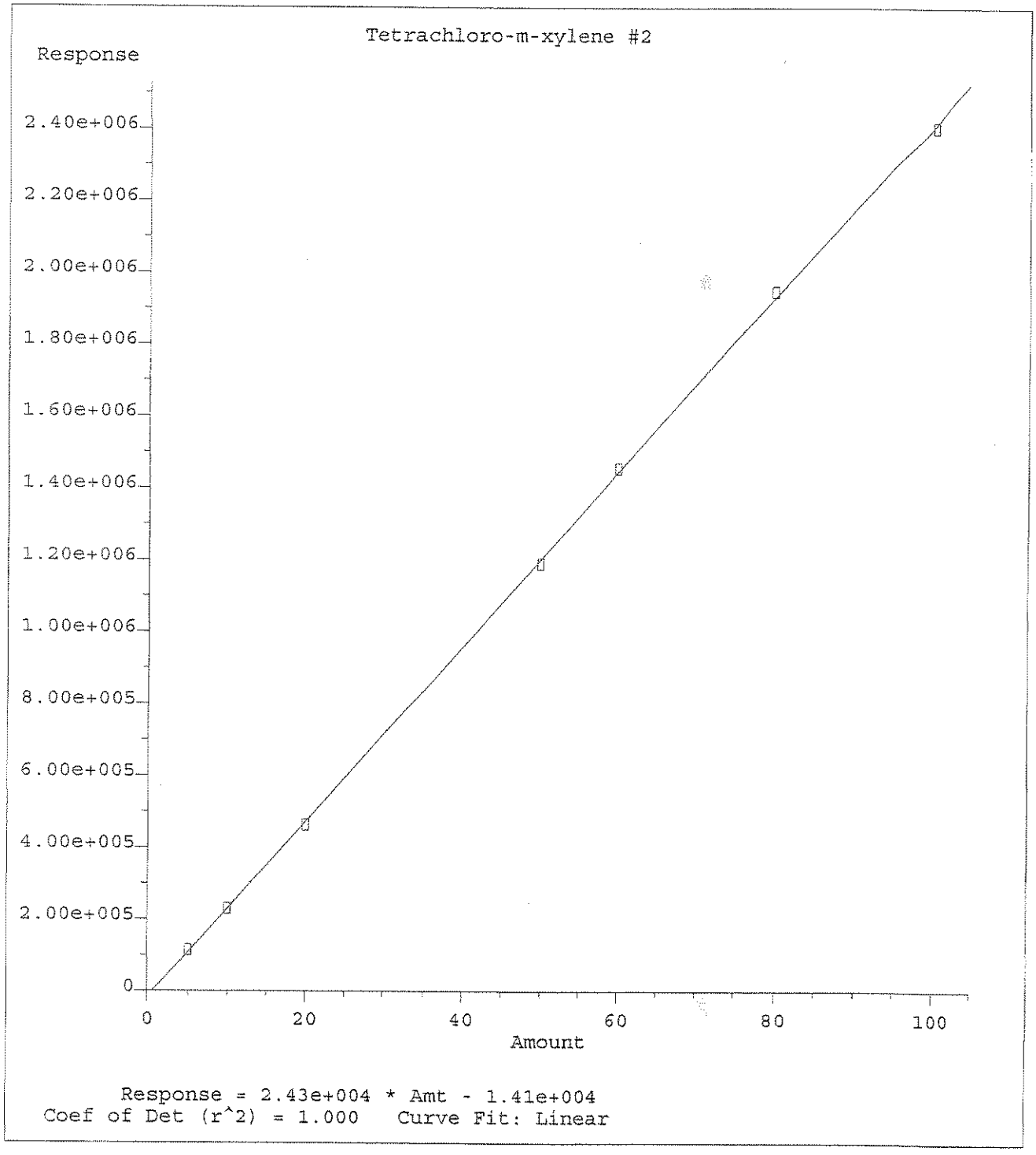
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



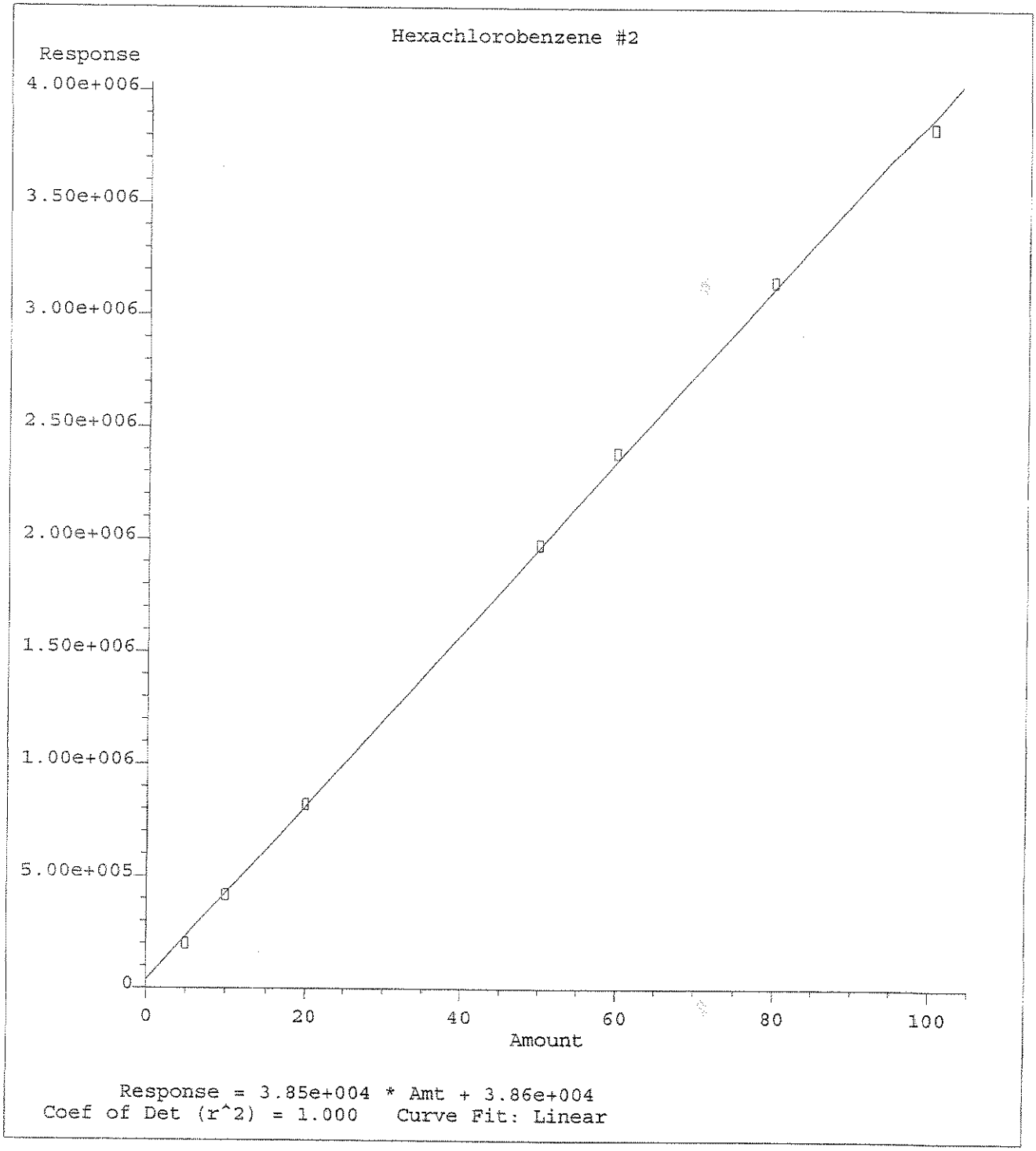
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



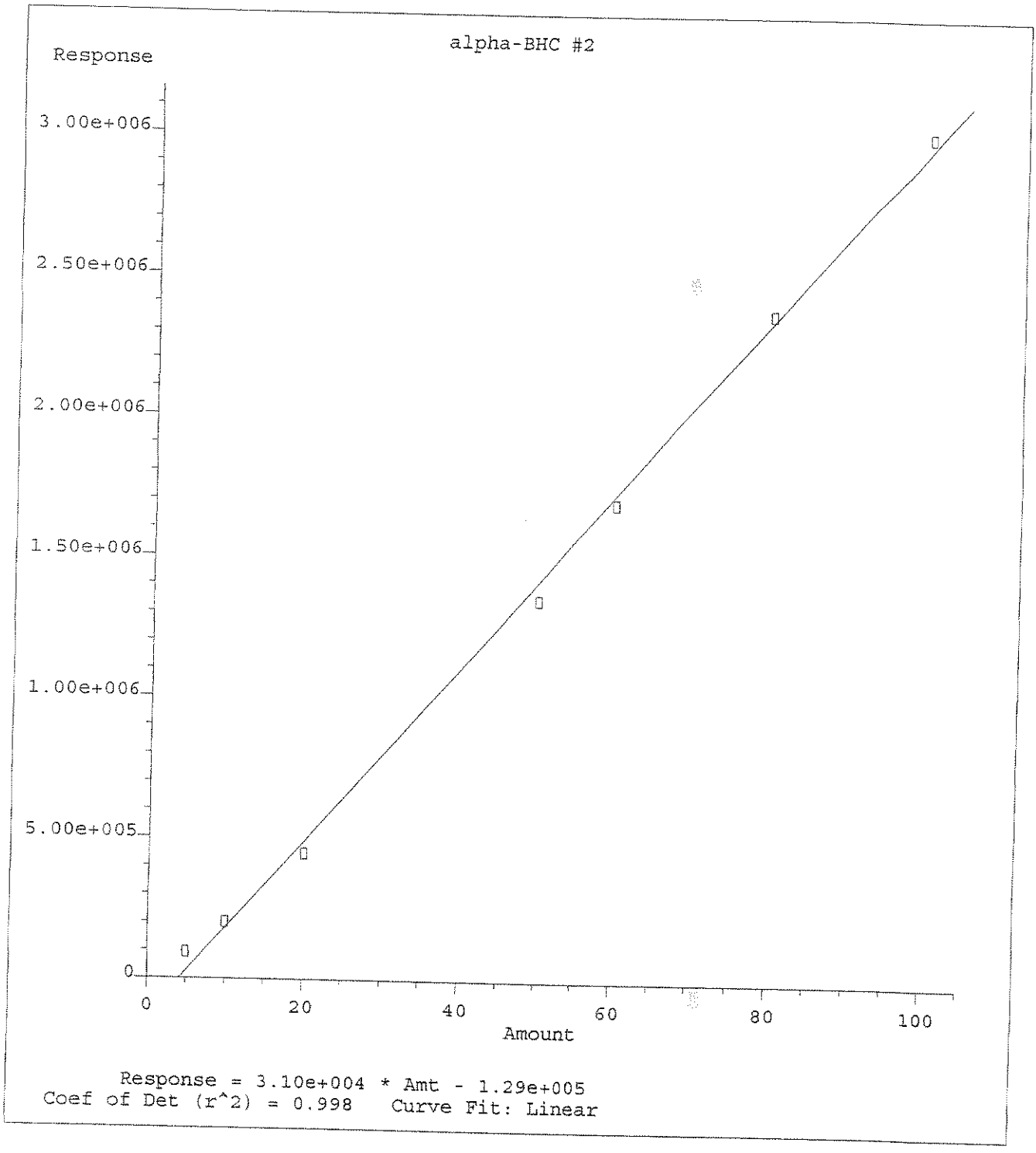
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



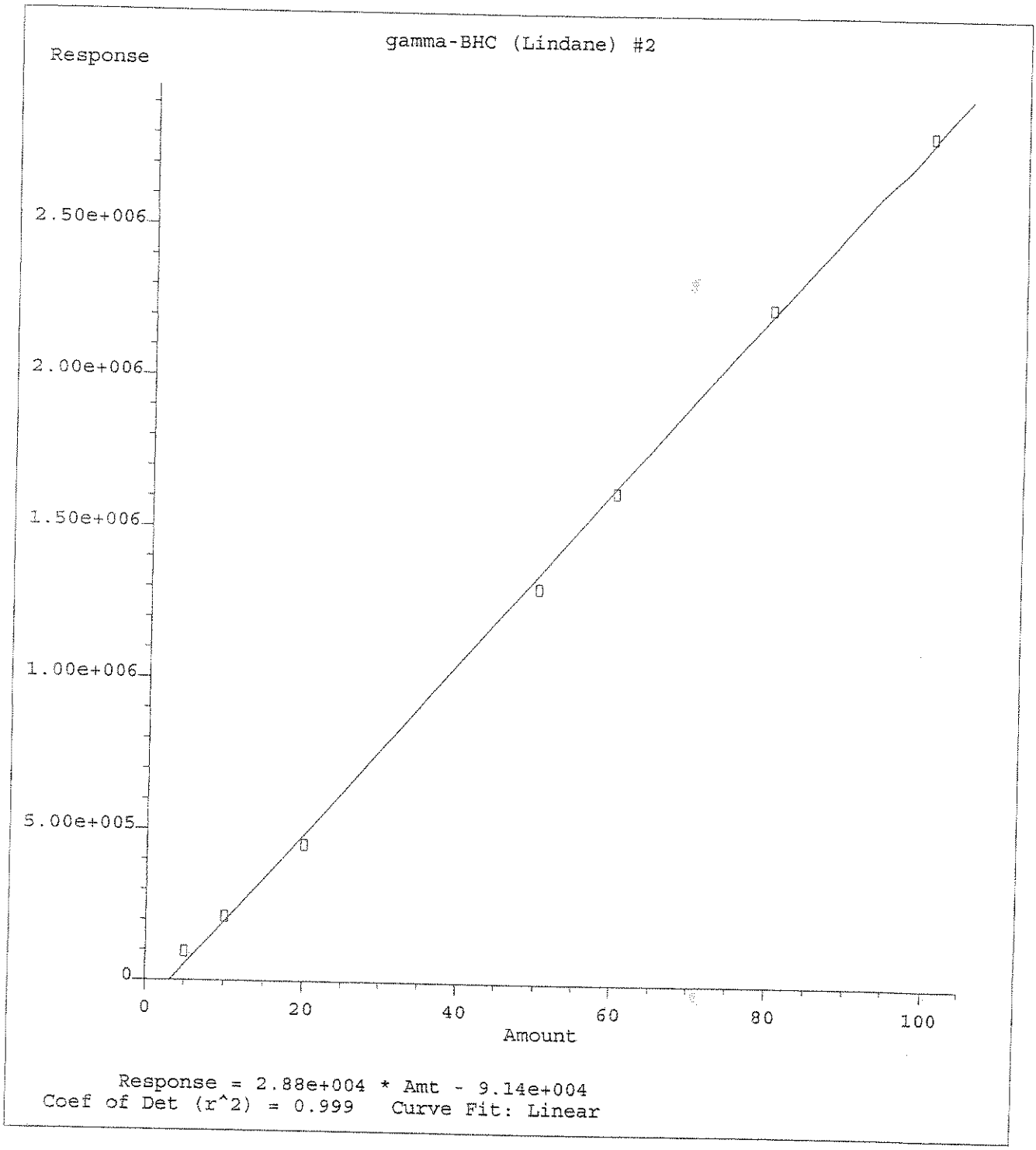
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



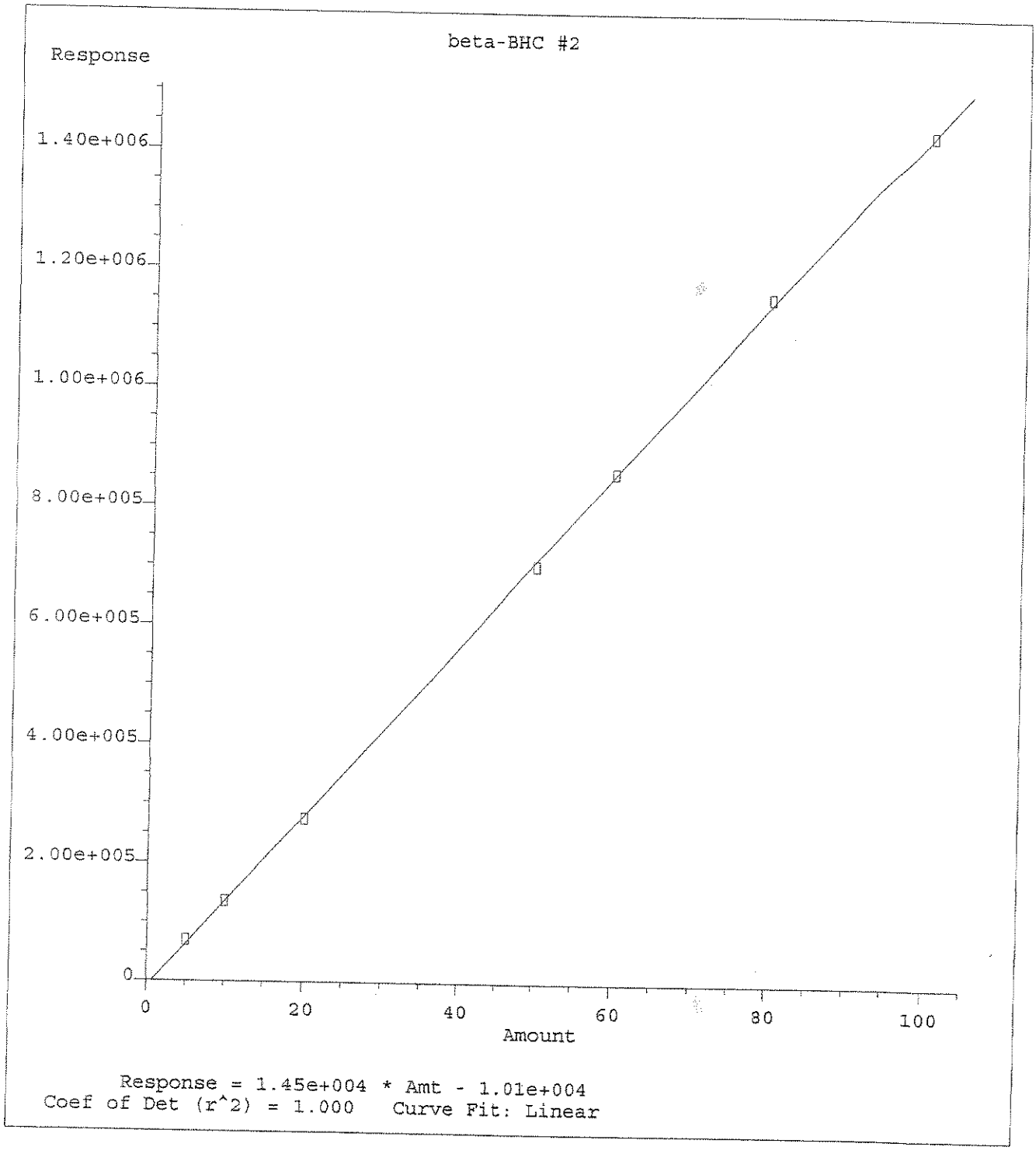
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



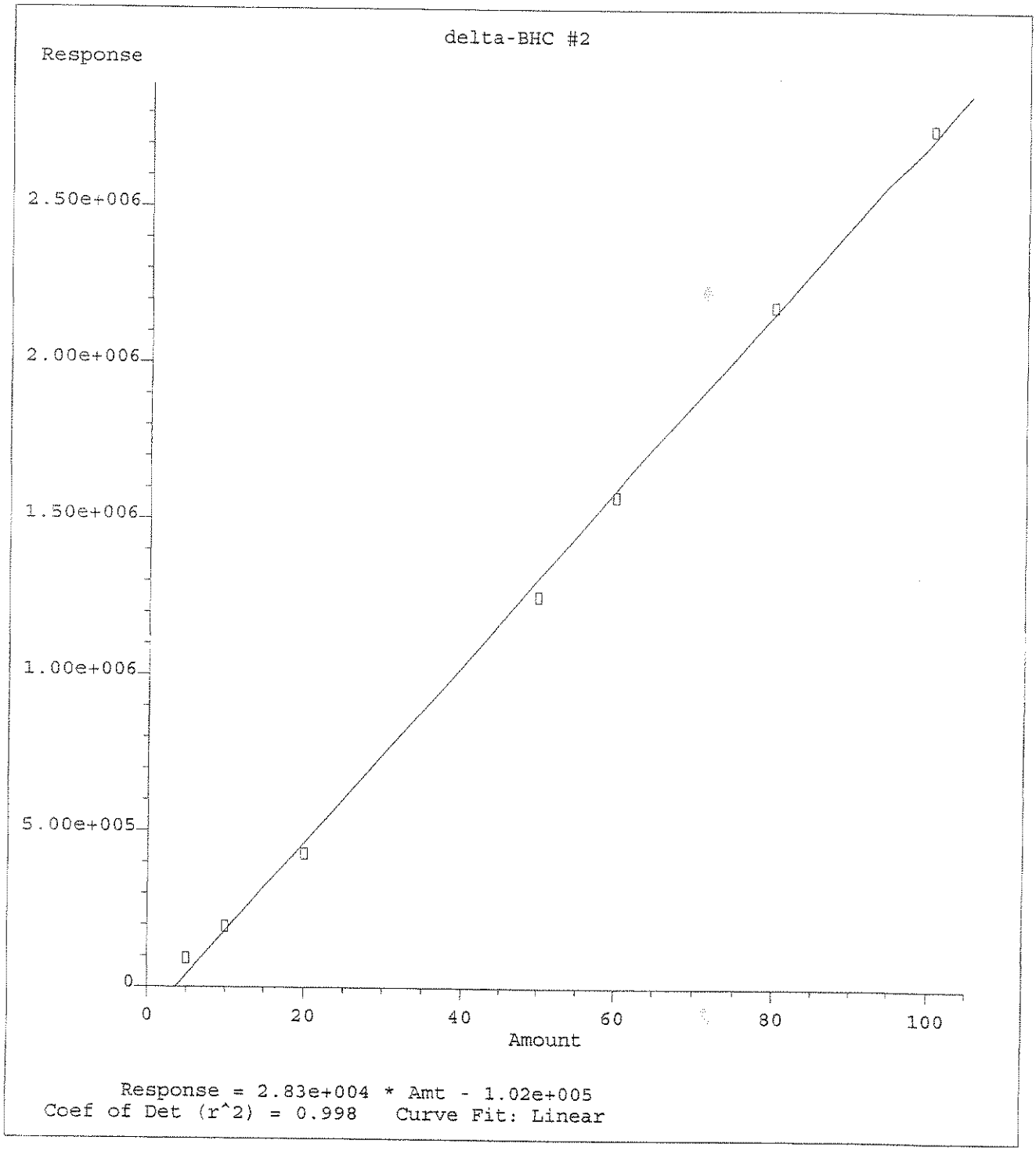
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



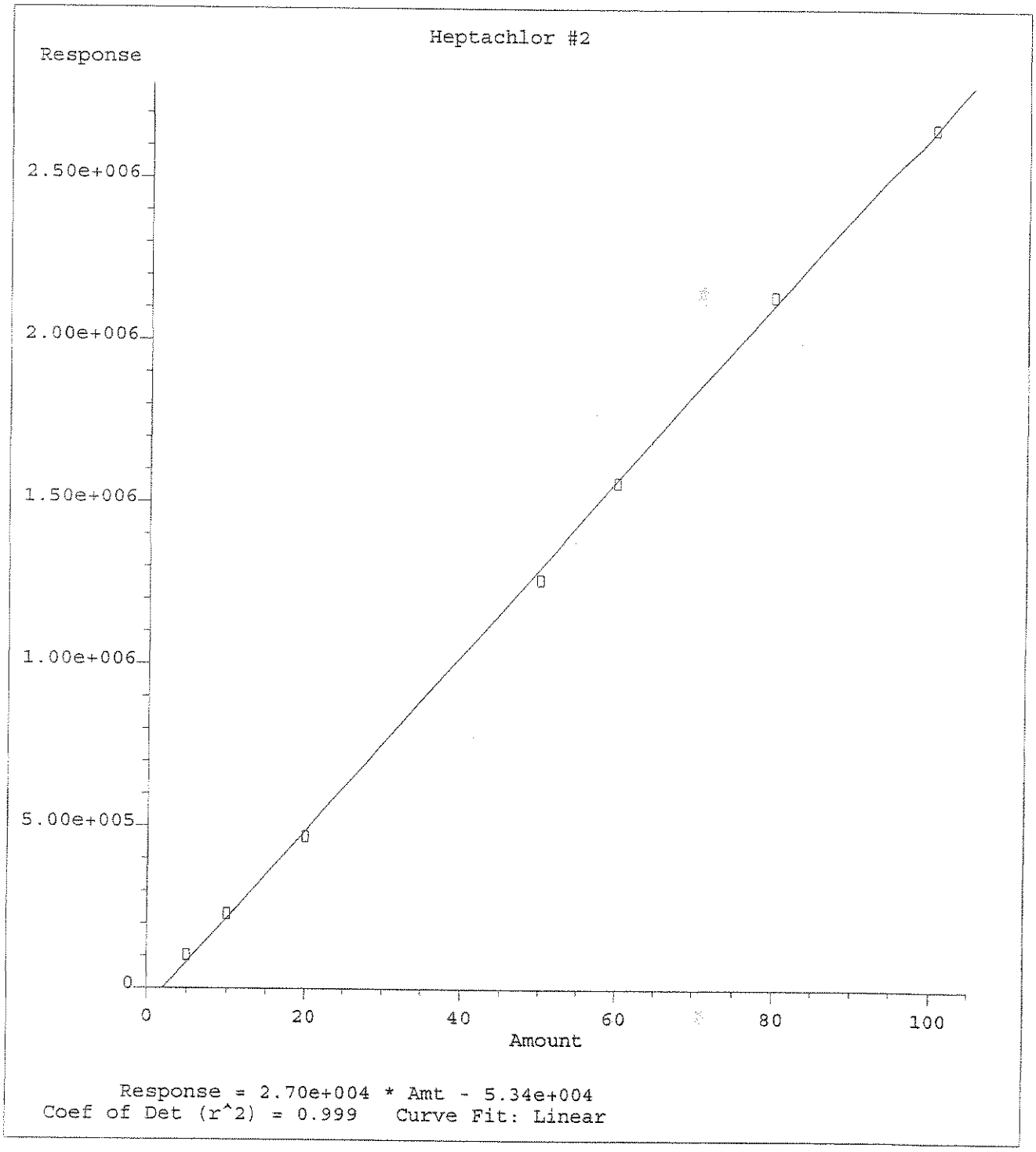
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



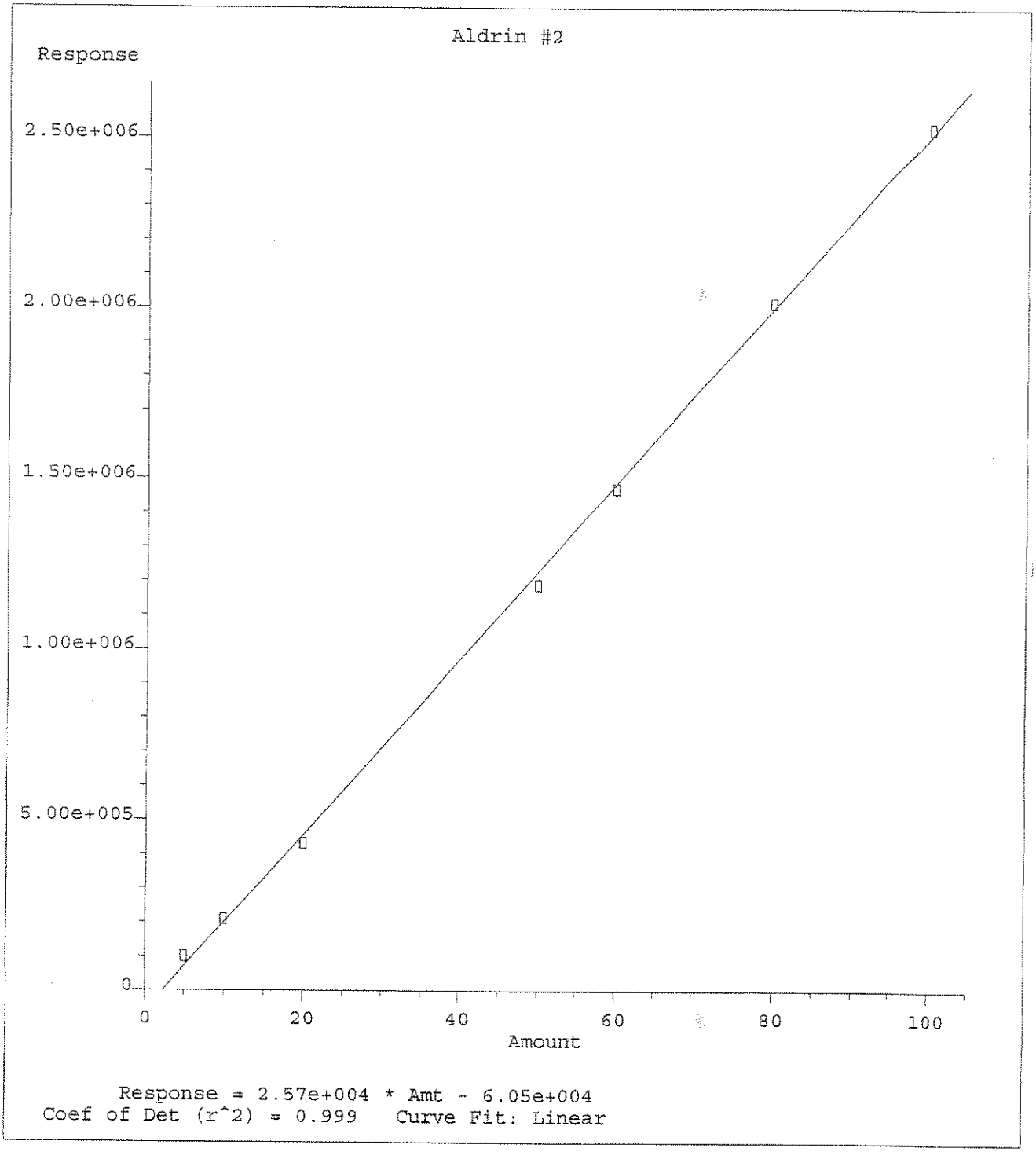
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



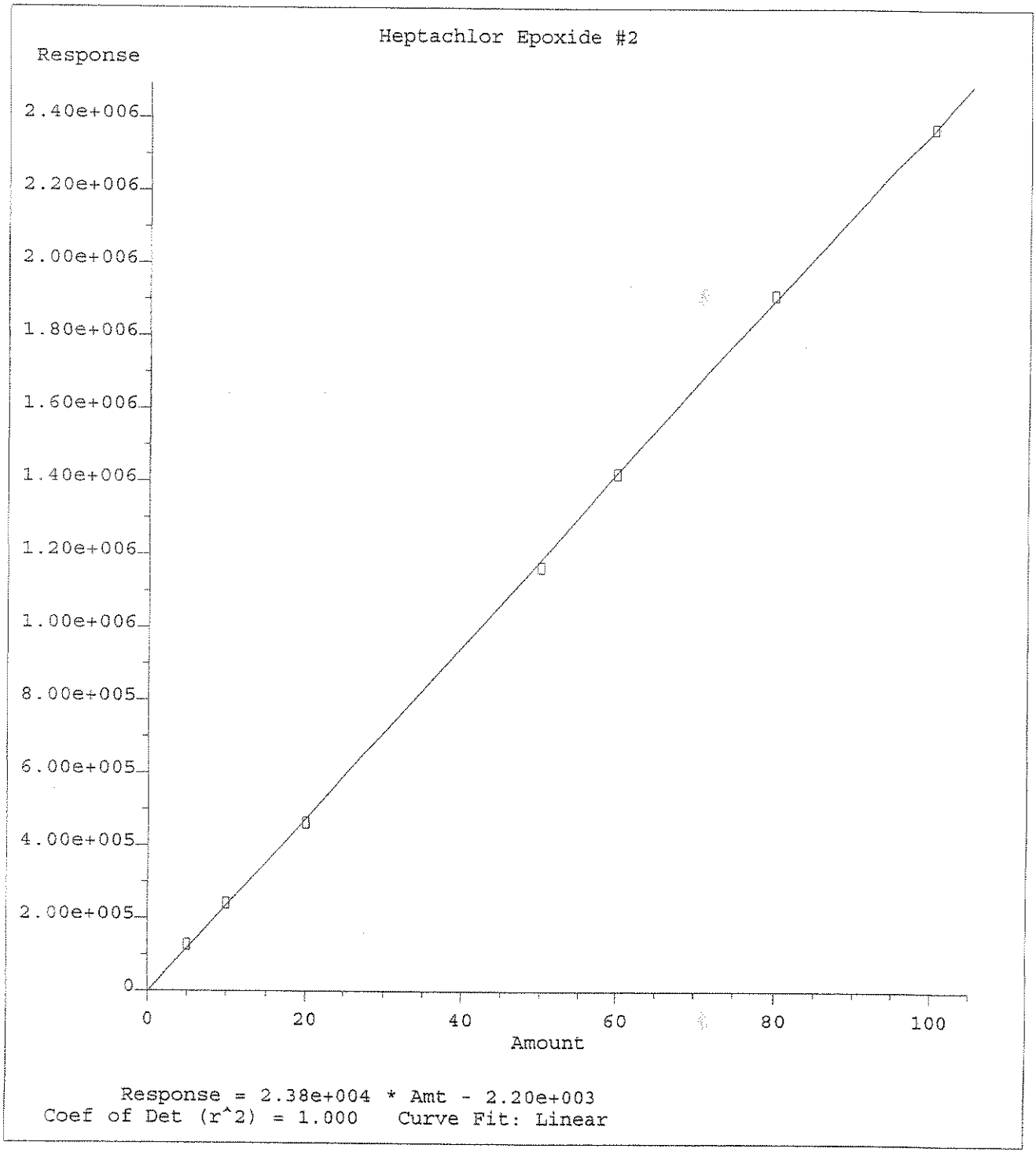
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



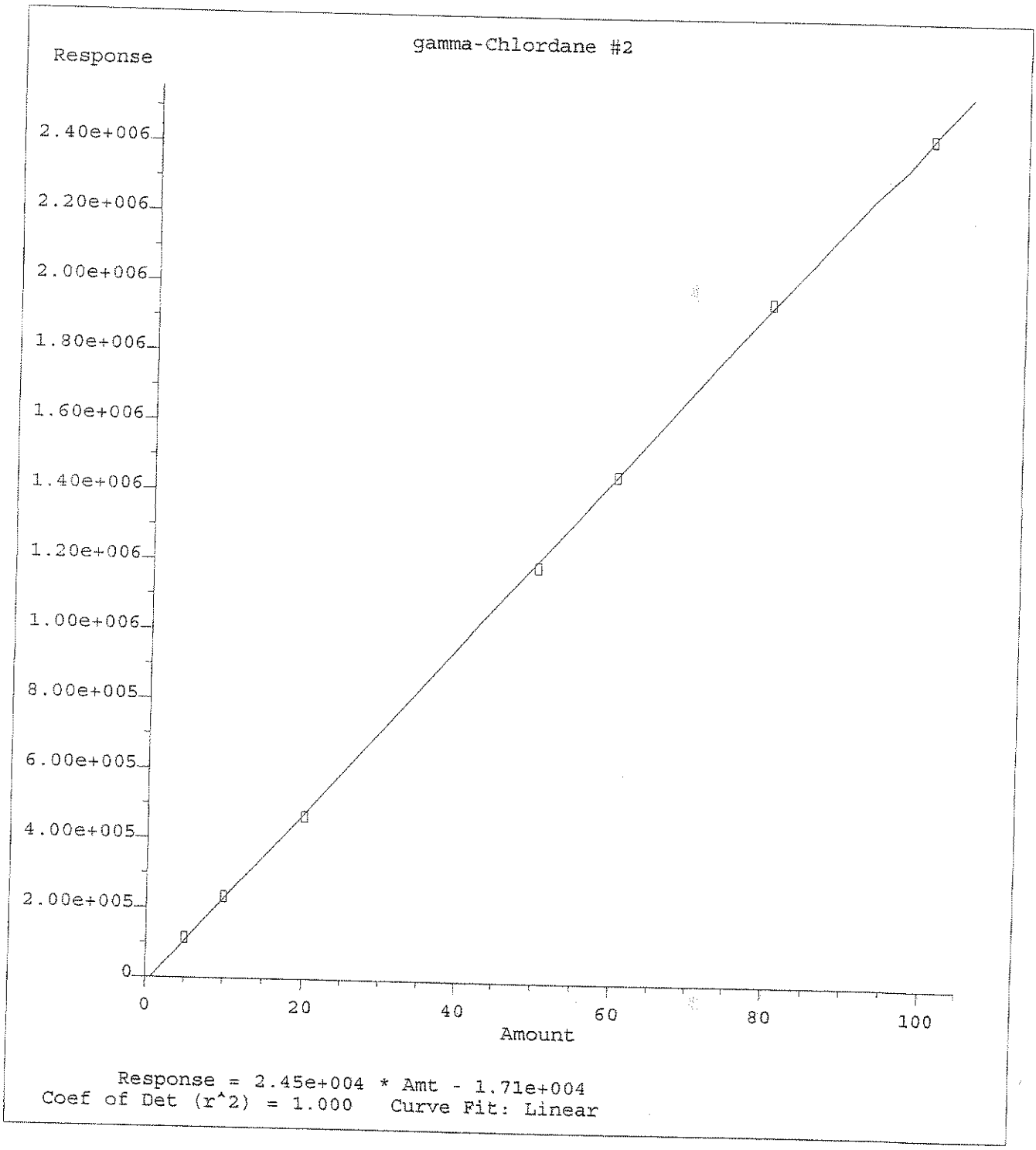
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



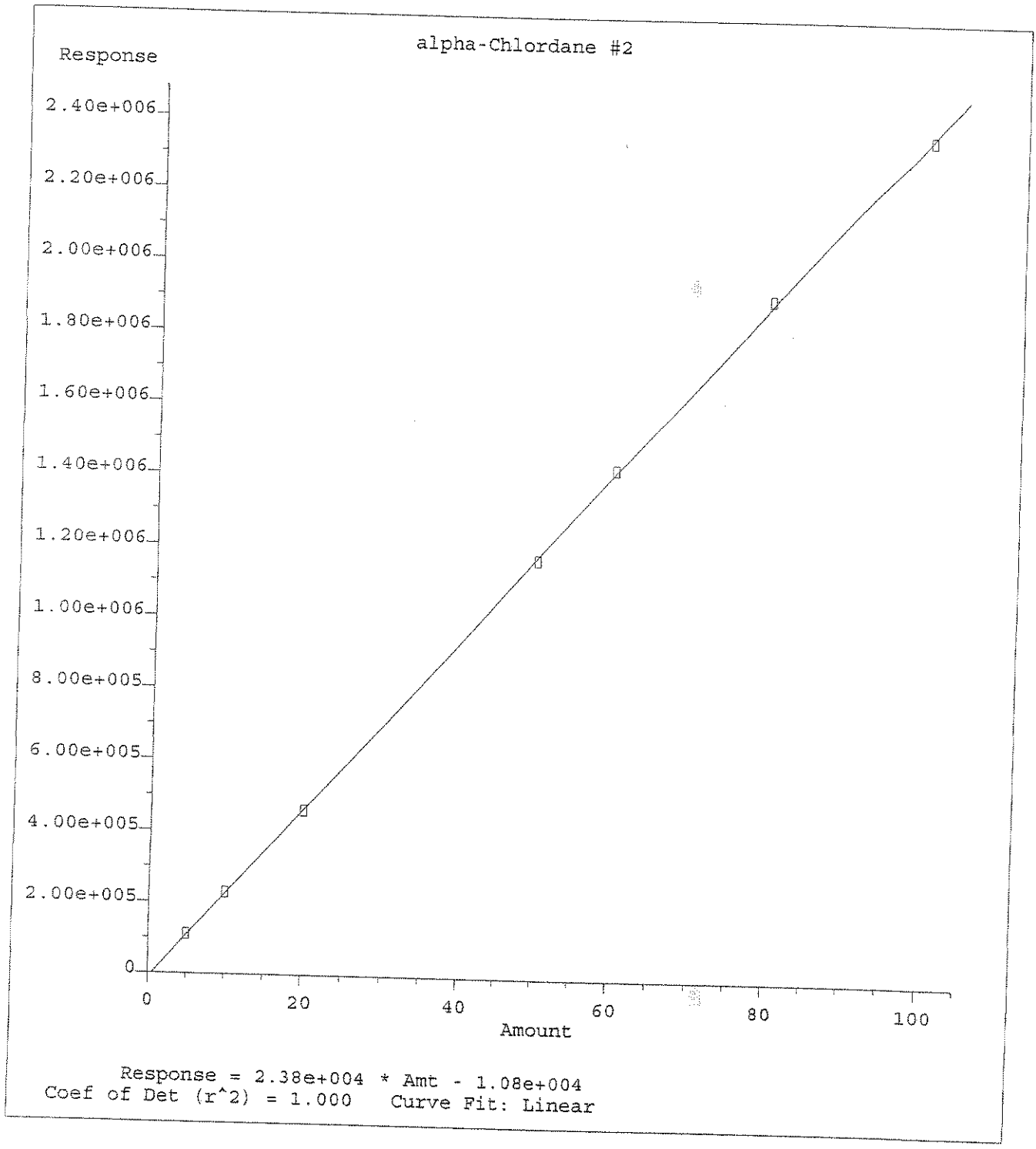
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



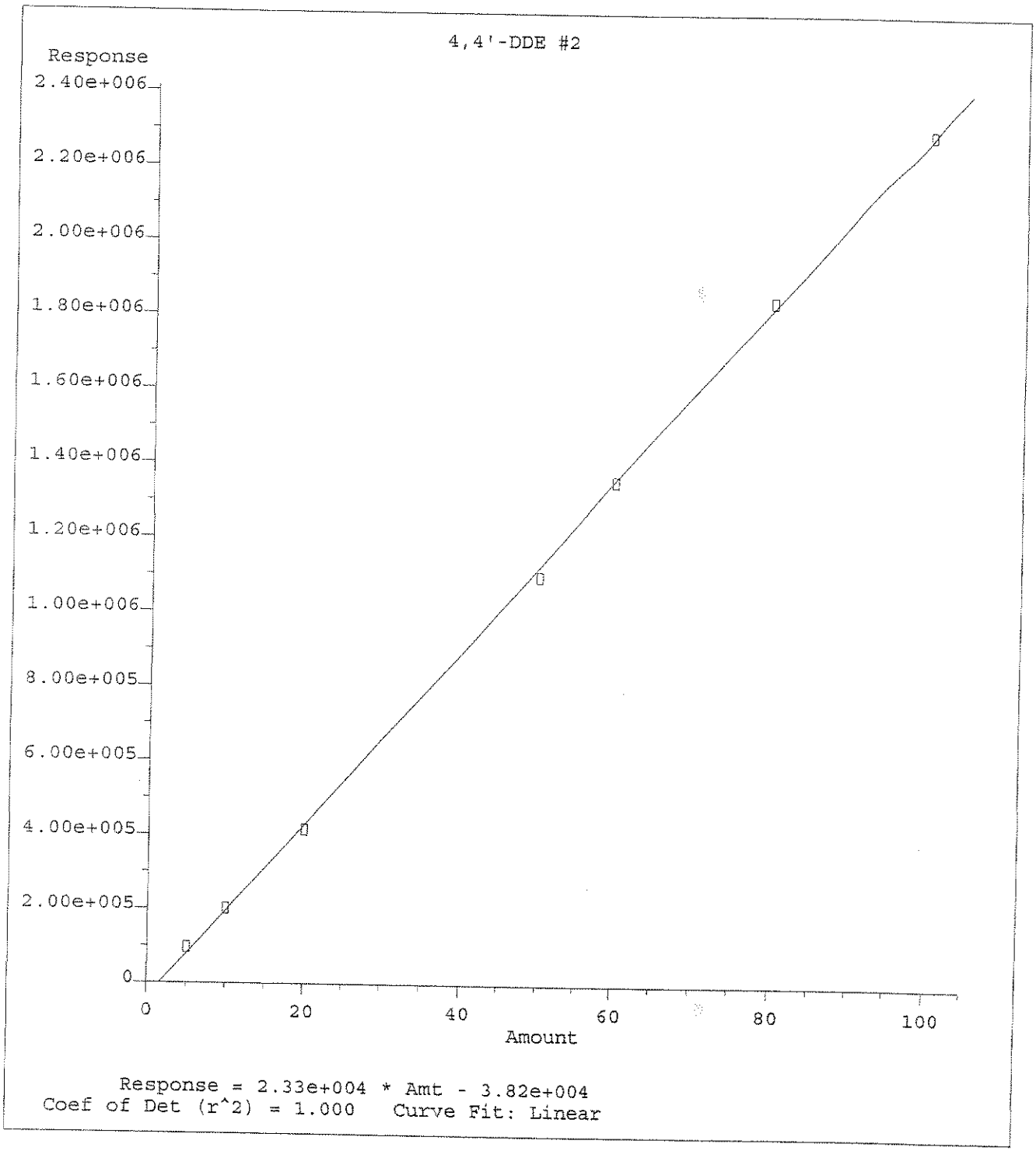
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



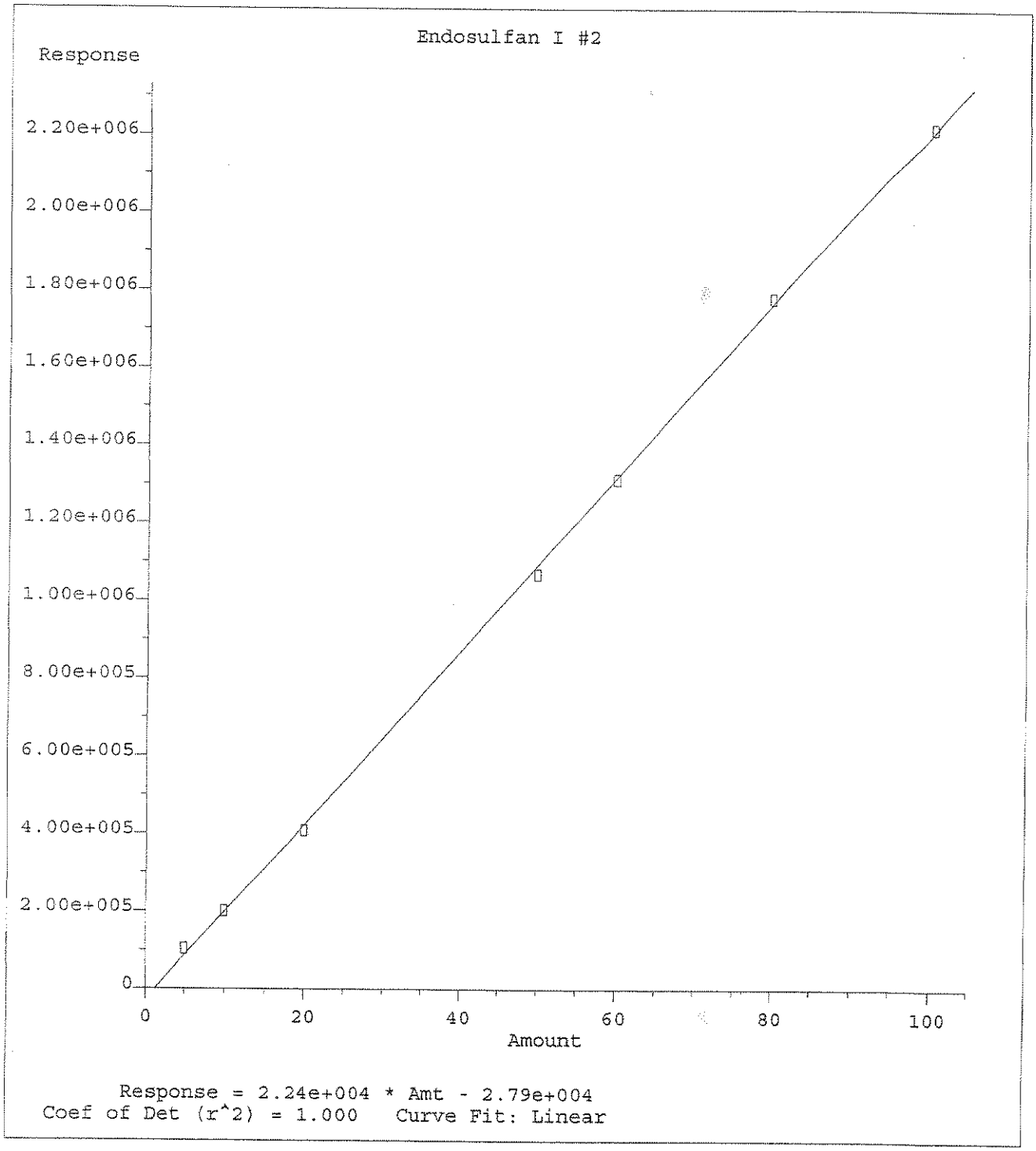
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



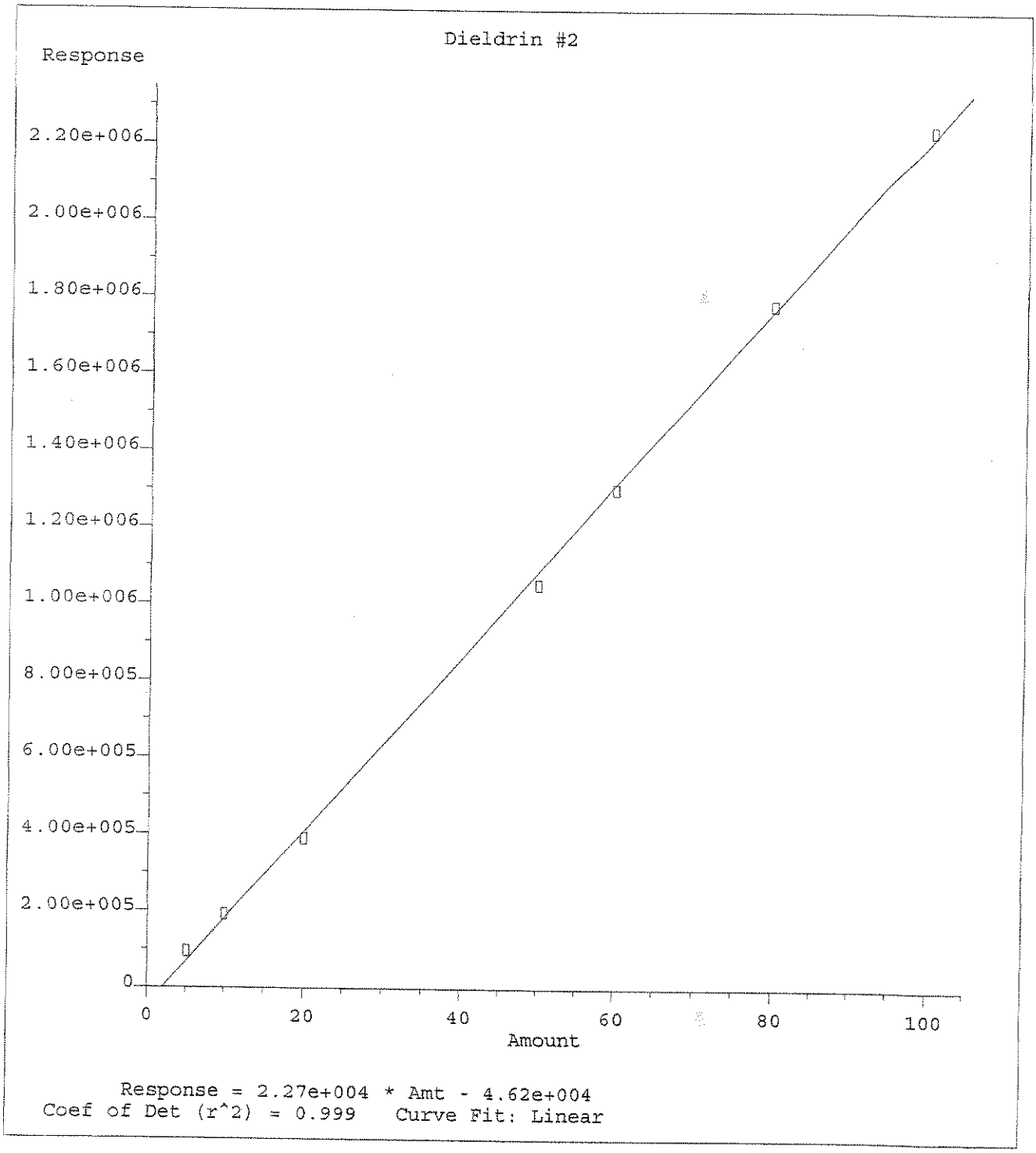
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



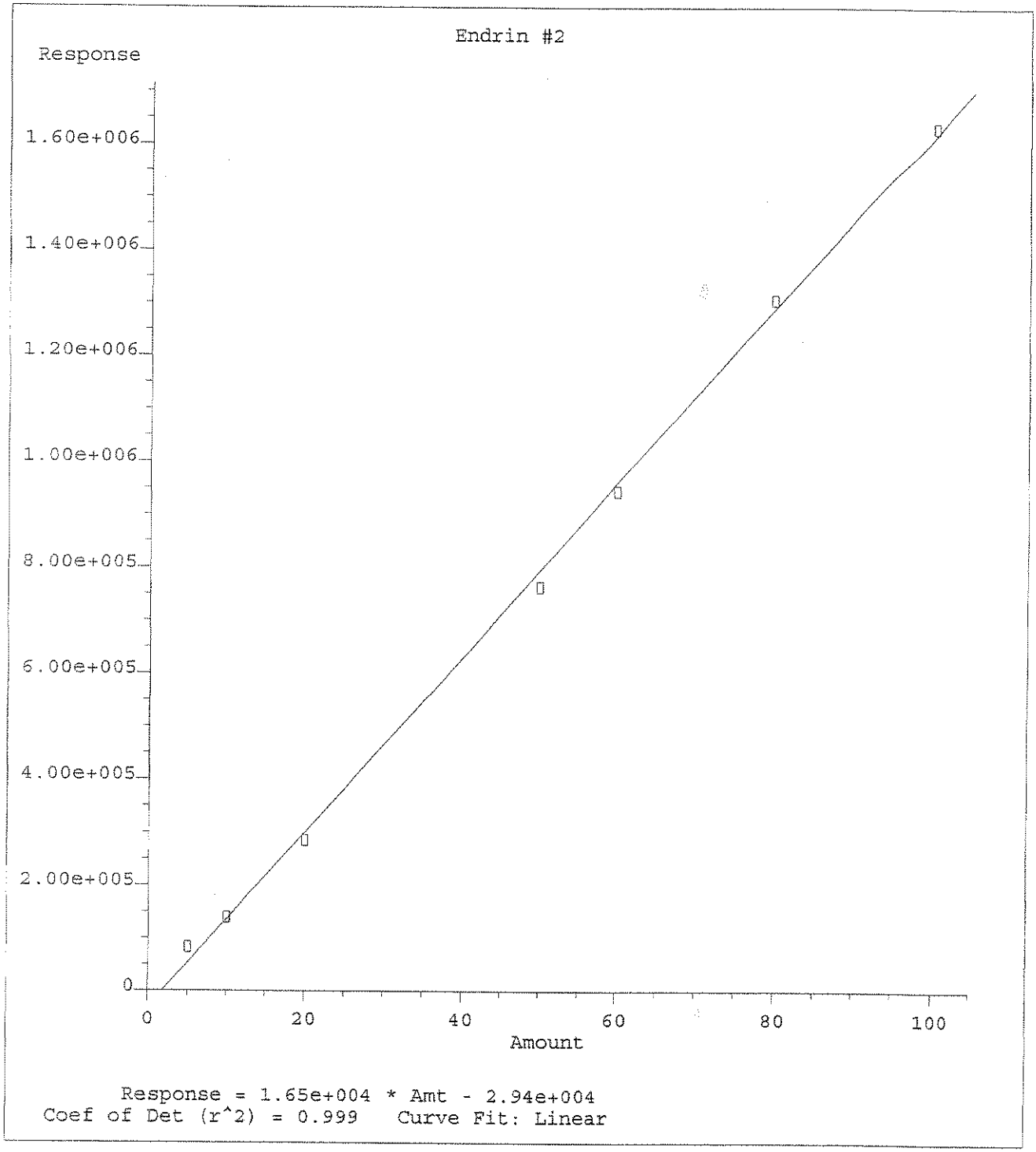
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



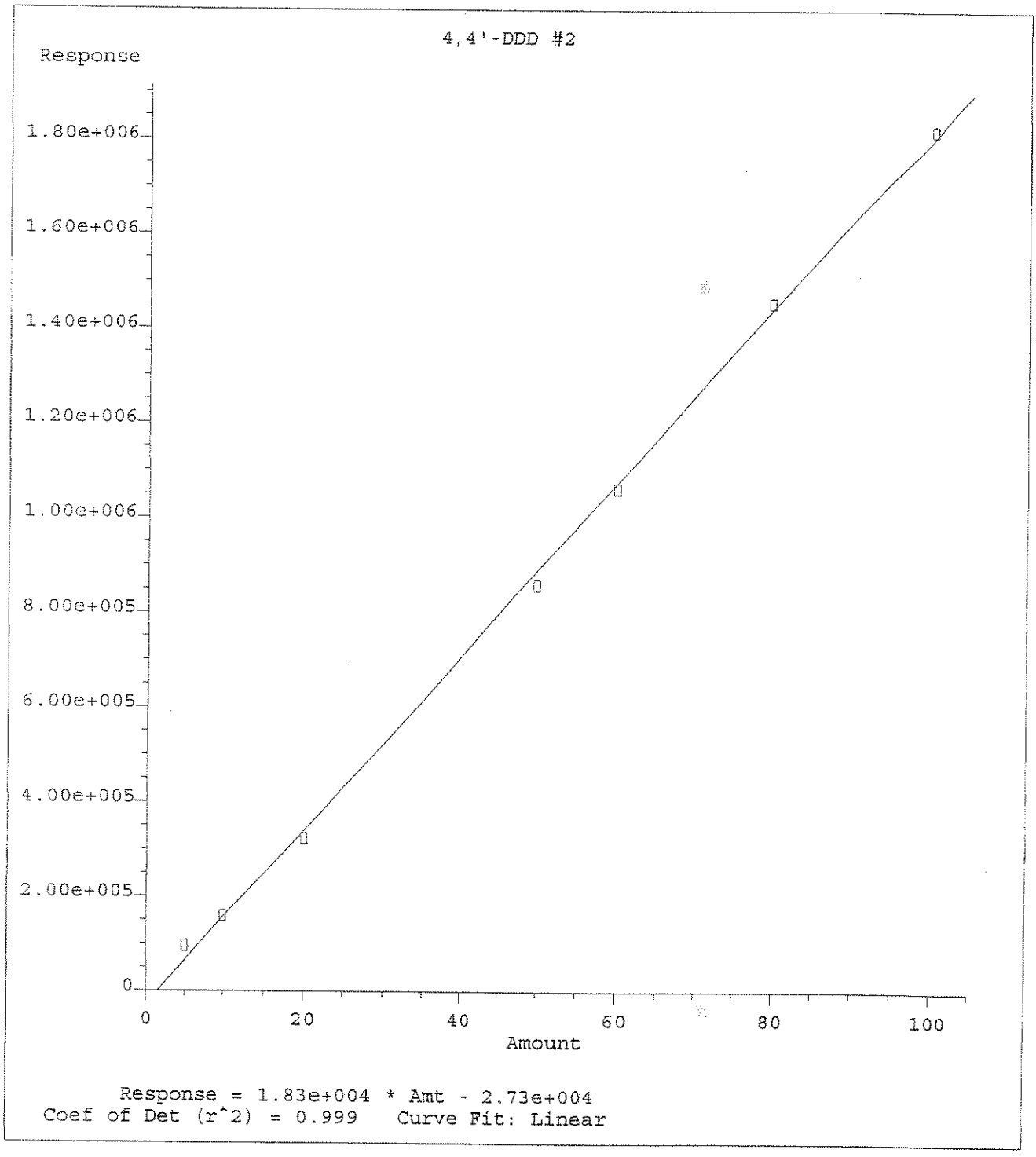
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



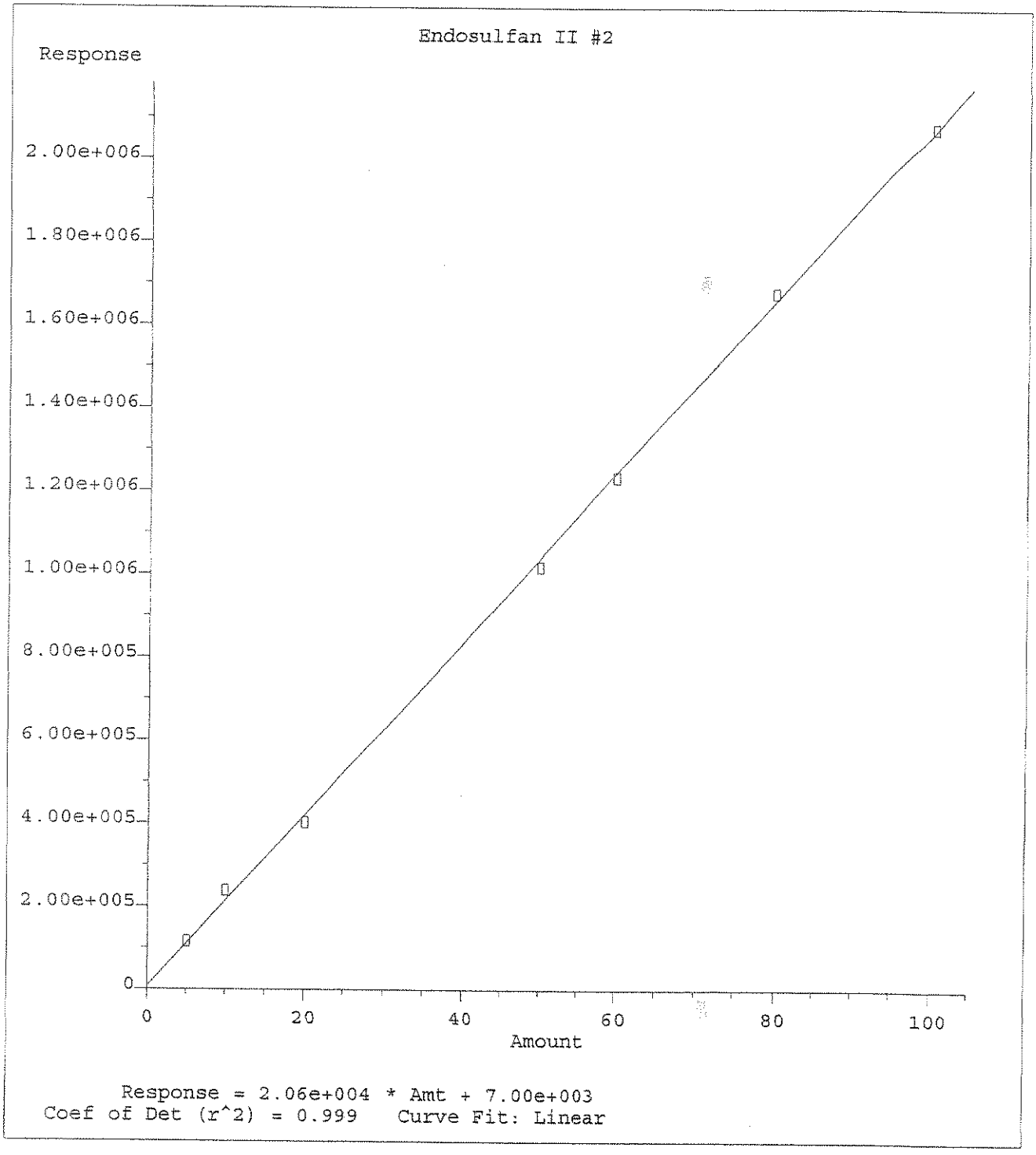
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



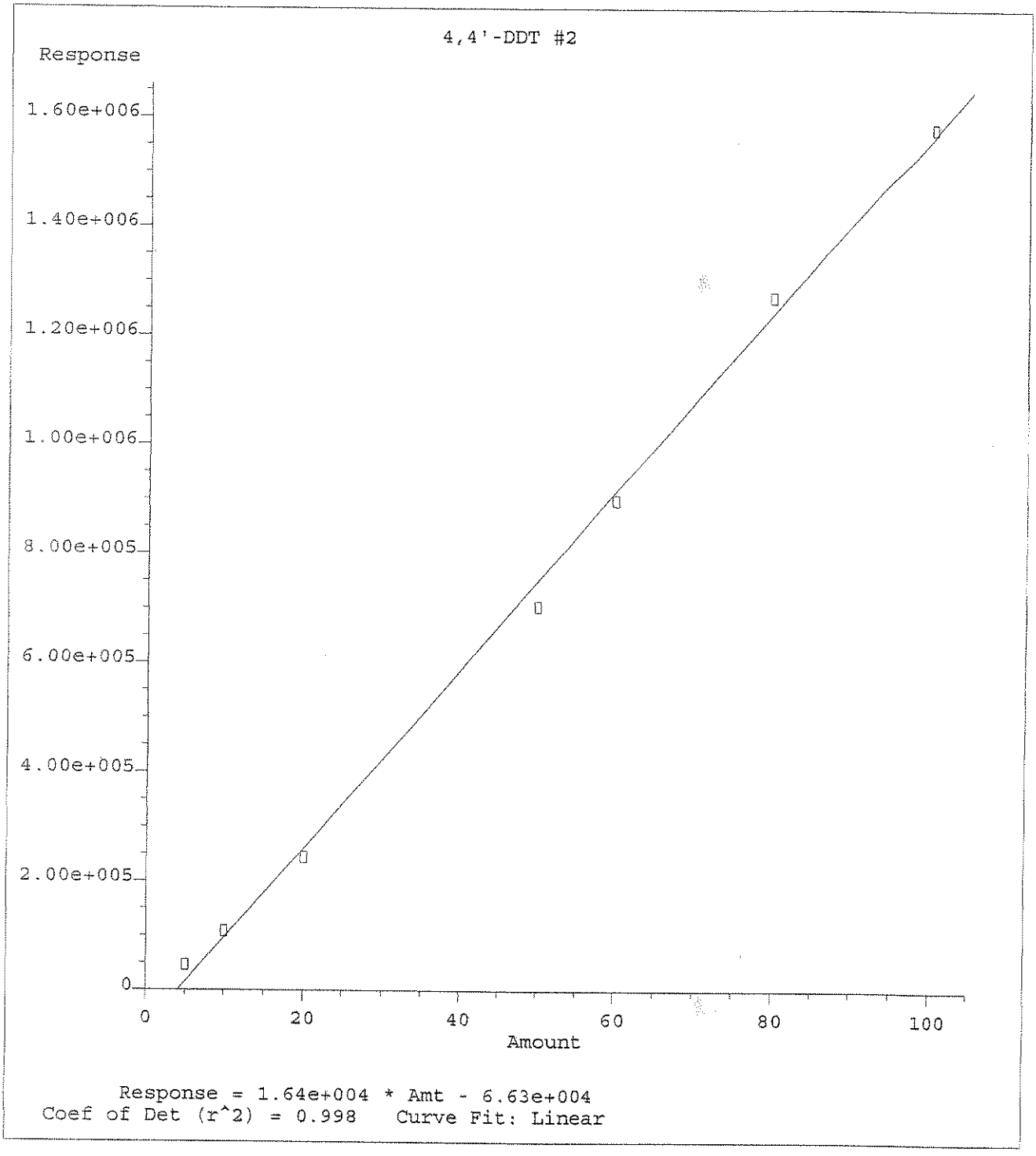
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



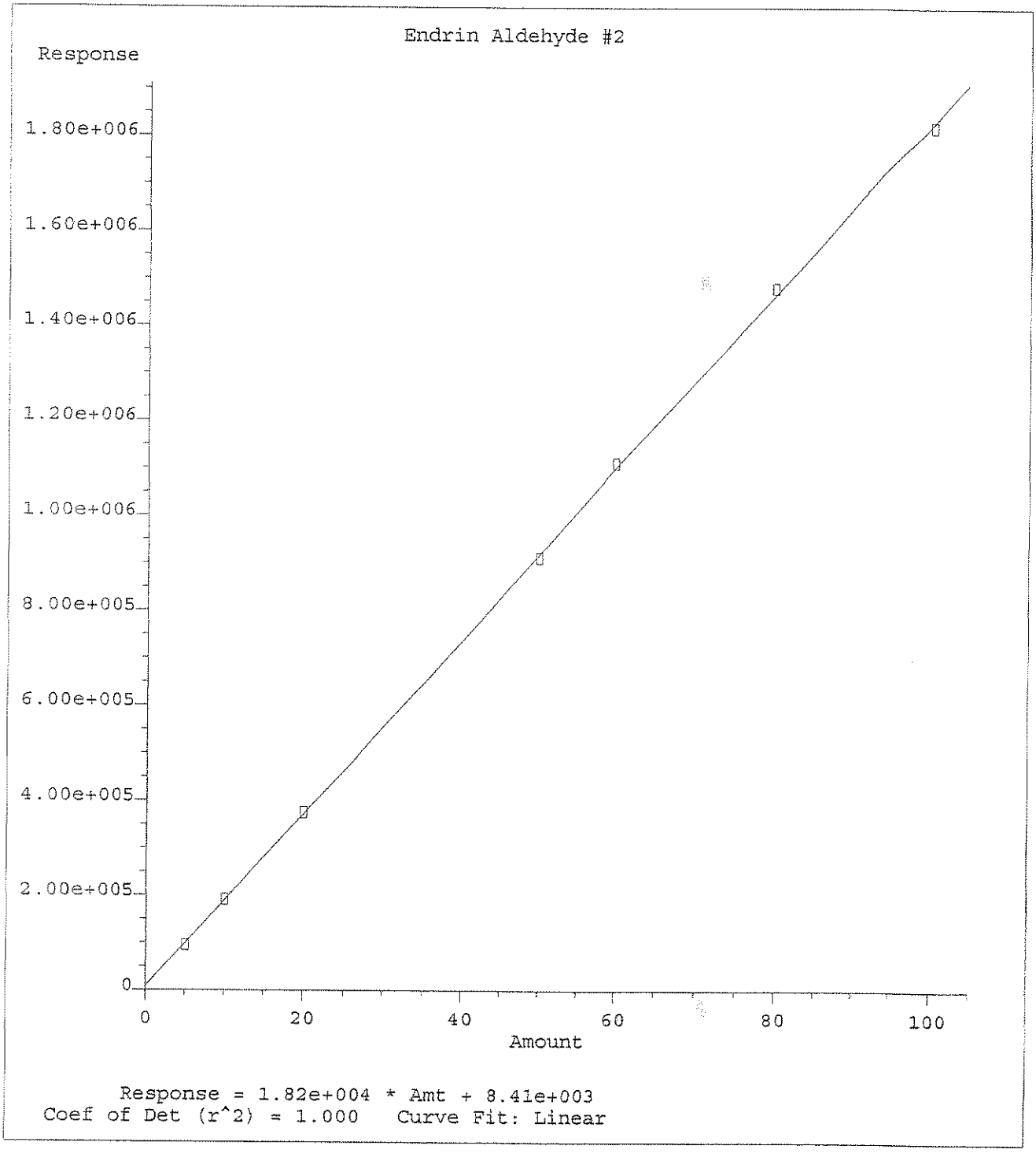
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



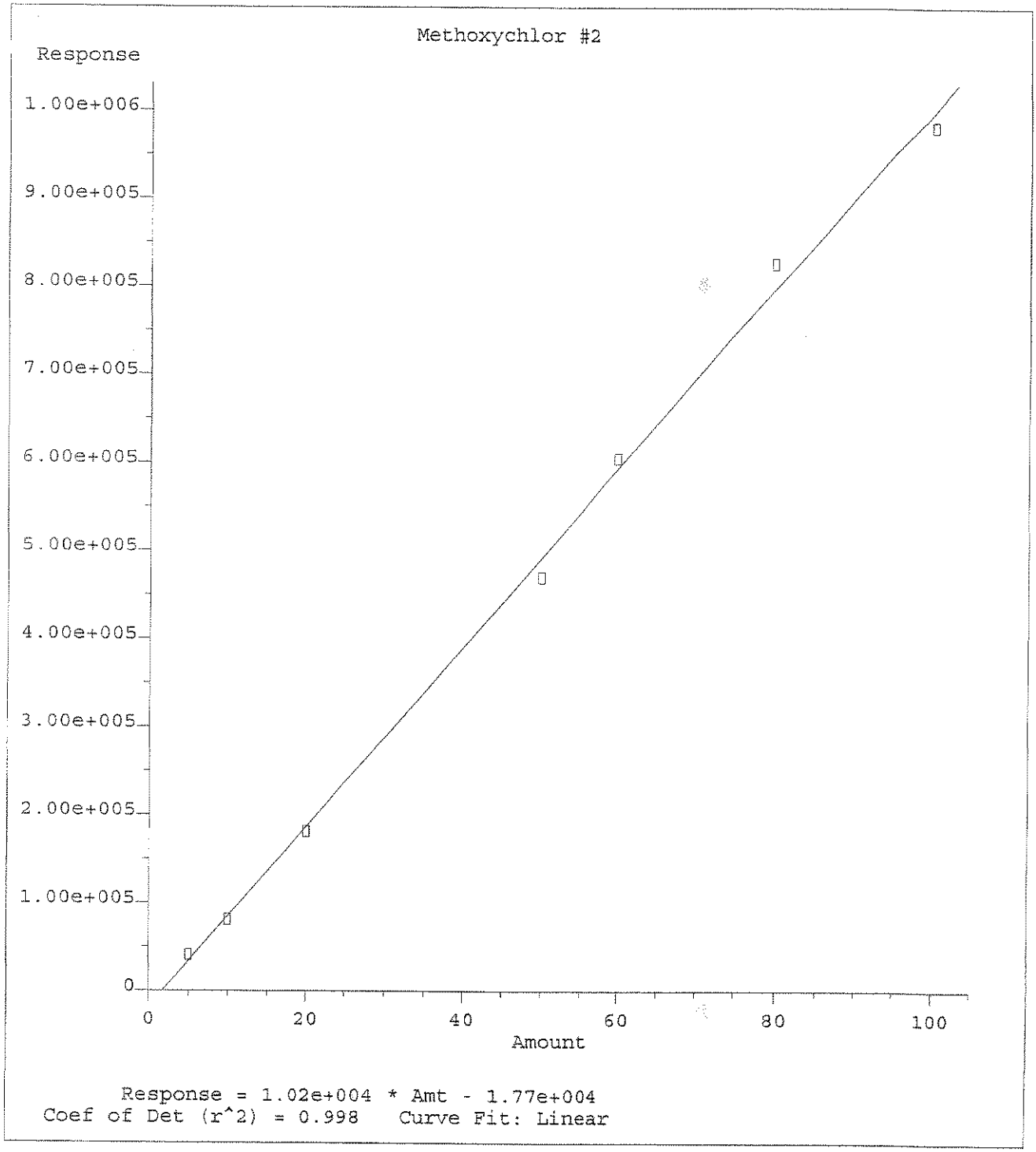
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



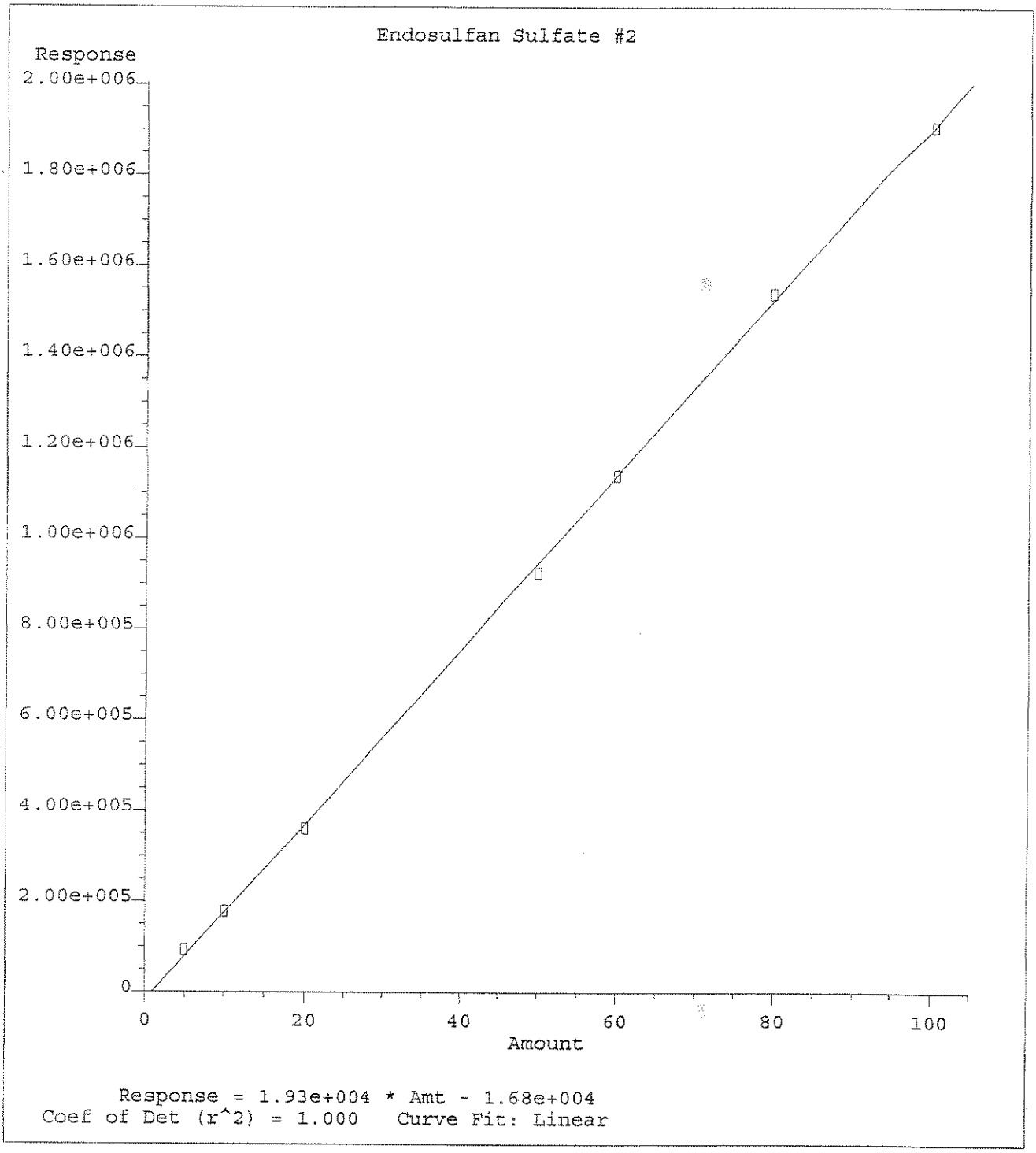
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



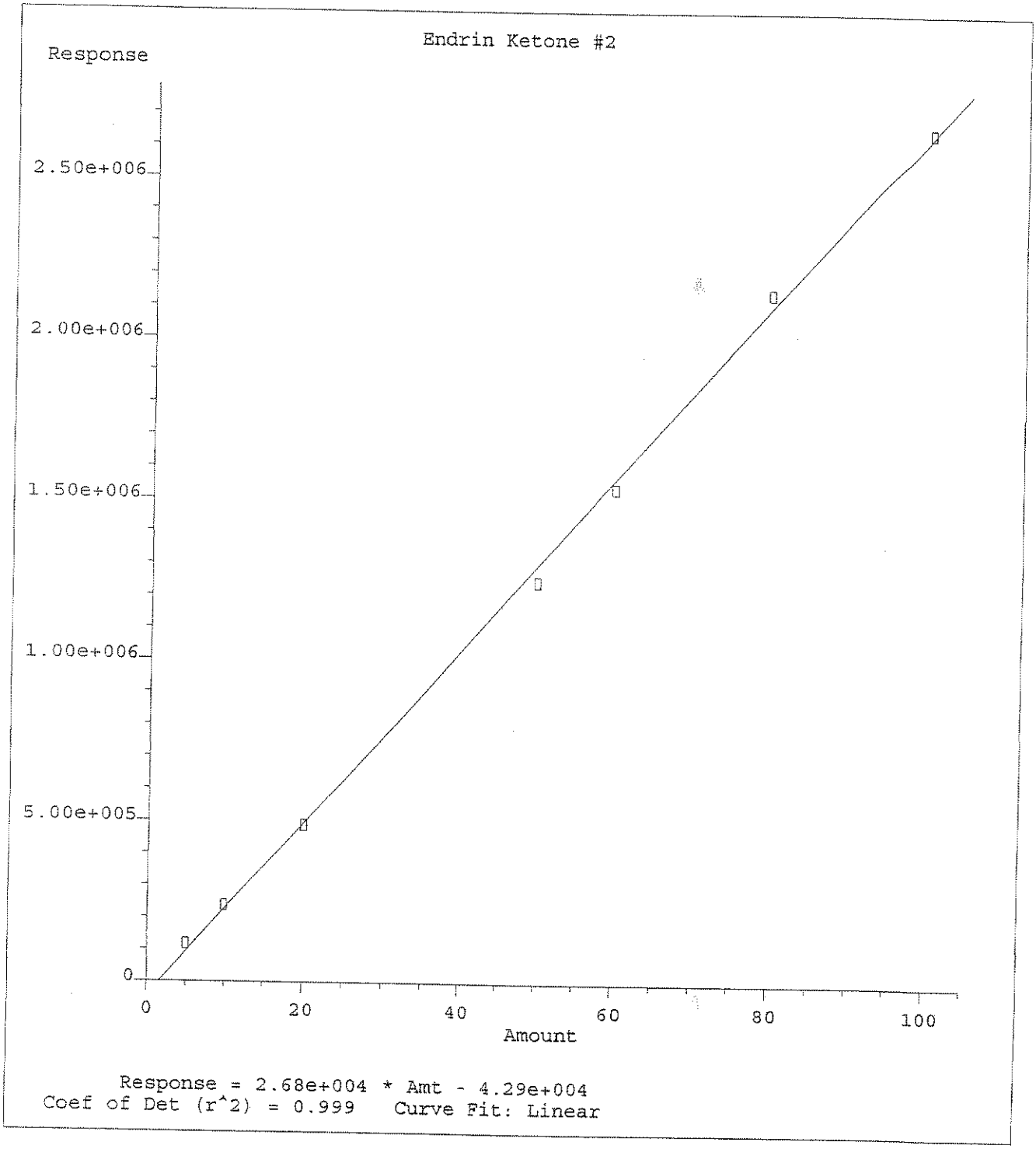
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



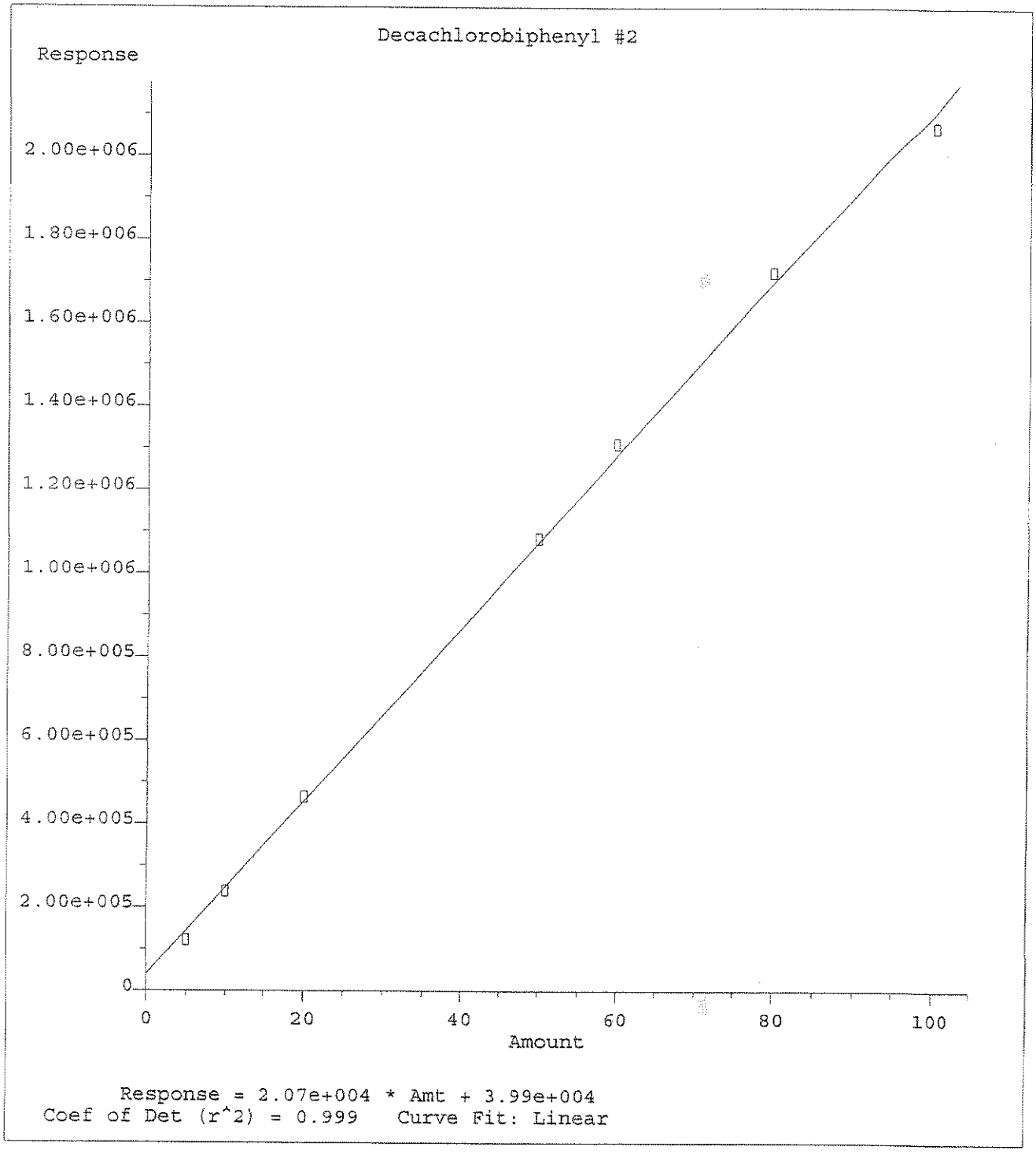
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EF.M
Calibration Table Last Updated: Thu Jun 15 06:45:03 2006

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06146B\012F0101.D Vial: 12
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06146B\012F0101.D\012R0101.D
Acq On : 14 Jun 06 06:13 PM Operator: [GC]2R0101.D\DATA.MS
Sample : CHLOR Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 15 8:23 19106

Method : Q:\SVOA\GC3_GE\METHODS\CHADIC.M
Title :
Last Update : Thu Jun 15 08:22:42 2006
Response via : Multiple Level Calibration

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.51	8.65	1603495	499358	26.452m	23.878
					Recovery	=	52.90%	47.76%
6)	S	Decachlorobiphenyl	17.95	20.55	1112223	464729	24.019m	24.166
					Recovery	=	48.04%	48.33%
		Target Compounds						
2)	L	Chlordane (1)	10.50	11.55	575083	187016	276.682	244.018
3)	L	Chlordane (2)	10.66	11.84	975189	297904	274.220	253.809
4)	L	Chlordane (3)	12.61	13.86	1881349	689624	256.768	247.185
5)	L	Chlordane (4)	12.84	14.11	2952278	590280	257.820	242.079
		Total Chlordane (1)			6383898	1764824	1065.490	987.092
		Average Chlordane (1)					266.373	246.773

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06146B\013F0101.D Vial: 13
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06146B\013F0101.D\013R0101.D
Acq On : 14 Jun 06 06:41 PM Operator: [GC]3R0101.D\DATA.MS
Sample : TOX Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 15 8:25 19106

Method : Q:\SVOA\GC3_GE\METHODS\TXECCC.M
Title :
Last Update : Mon Jun 12 08:33:29 2006
Response via : Single Level Calibration

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.51	8.65	2042721	642766	48.681m	46.199
					Recovery	=	97.36%	92.40%
3)	S	Decachlorobiphenyl	17.95f	20.55f	1453503	590839	44.700	44.652
					Recovery	=	89.40%	89.30%
		Target Compounds						
2)	H	Toxaphene	15.52	15.52	107.0E6	42424041	2711.152	2684.138

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ANALYSIS SEQUENCE

BPG0224

Instrument: SVOAGC3

Calibnration ID: ~~UNASSIGNED~~ 8081CF

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0224-PEM1	QC		1		6E02036		
BPG0224-CCV1	QC		2		6F14081		
BPG0224-CCV2	QC		3		6F13062		
0606113-01	SVOC: 8081A ppb Pesticides	F	4				MACTEC Engineering & Consulting, In
0606113-02	SVOC: 8081A ppb Pesticides	F	5				MACTEC Engineering & Consulting, In
0606113-03	SVOC: 8081A ppb Pesticides	F	6				MACTEC Engineering & Consulting, In
0606113-04	SVOC: 8081A ppb Pesticides	F	7				MACTEC Engineering & Consulting, In
0606113-05	SVOC: 8081A ppb Pesticides	F	8				MACTEC Engineering & Consulting, In
0606113-06	SVOC: 8081A ppb Pesticides	F	9				MACTEC Engineering & Consulting, In
0606113-07	SVOC: 8081A ppb Pesticides	F	10				MACTEC Engineering & Consulting, In
0606113-08	SVOC: 8081A ppb Pesticides	F	11				MACTEC Engineering & Consulting, In
0606113-09	SVOC: 8081A ppb Pesticides	F	12				MACTEC Engineering & Consulting, In
0606113-10	SVOC: 8081A ppb Pesticides	F	13				MACTEC Engineering & Consulting, In
0606113-11	SVOC: 8081A ppb Pesticides	F	14				MACTEC Engineering & Consulting, In
0606113-12	SVOC: 8081A ppb Pesticides	F	15				MACTEC Engineering & Consulting, In
0606113-13	SVOC: 8081A ppb Pesticides	F	16				MACTEC Engineering & Consulting, In
0606113-14	SVOC: 8081A ppb Pesticides	F	17				MACTEC Engineering & Consulting, In
0606113-15	SVOC: 8081A ppb Pesticides	F	18				MACTEC Engineering & Consulting, In
0606113-16	SVOC: 8081A ppb Pesticides	F	19				MACTEC Engineering & Consulting, In
0606113-17 5MS2	SVOC: 8081A ppb Pesticides	F	20				MACTEC Engineering & Consulting, In
BPG0224-CCV3	QC		21		6F13061		
BPG0224-CCV4	QC		22		6F14081		
0606113-03RE1	SVOC: 8081A ppb Pesticides	F	23				MACTEC Engineering & Consulting, In
0606113-04RE1	SVOC: 8081A ppb Pesticides	F	24				MACTEC Engineering & Consulting, In
0606113-05RE1	SVOC: 8081A ppb Pesticides	F	25				MACTEC Engineering & Consulting, In
0606113-09RE1	SVOC: 8081A ppb Pesticides	F	26				MACTEC Engineering & Consulting, In
0606113-11RE1	SVOC: 8081A ppb Pesticides	F	27				MACTEC Engineering & Consulting, In
0606113-14RE1	SVOC: 8081A ppb Pesticides	F	28				MACTEC Engineering & Consulting, In
BPG0224-CCV5	QC		29		6F13061		
BPG0224-CCV6	QC		30		6F15064		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/14/06	1	BE0614LB-01	Prime	8081EF		SB
	2	02	Pem		1:33 PM	
	3	03	Pest 5ppb		GF14082	
	4	04	10ppb		083	
	5	05	20ppb		084	
	6	06	50ppb		085	
	7	07	60ppb		086	
	8	08	80ppb		087	
	9	09	100ppb		088	
	10	10	SS		089	
	11	11	Pest SS		090 05:45 PM	
	12	12	Chlor		GF14091	
	13	13	Tox		GB16090	
	14	14	BF61335-BLK1			
	15	15	BS1			
	16	16	BSD1			
	17	17	0605136-04			
	18	18	05			
	19	19	06			
	20	20	06 MS			
	21	21	Hexane			
	22	22	Pest 20 cc		DDT/methoxychlor low-front	
	22	22	Pest 20 cc		GF14080 DDT/meth-xychlor low-front 11:22 PM	
	23	23	Pem		11:50 PM	
	24	24	Pest 50 cc		GF14081	
6/14/06	24	BE0614LB-24	Pest 50 cc	8081EF	OK GF14081 00:46 AM	SB

CONTROL NUMBER 60.0012-0602A

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ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/14/06	12	GE061468-12	Chlor ✓	8081 EF	6F 14091 1:14 AM	SEF
	25	25	0606113-01 ✓		(2) (R10) Chlordane report A-Chlor off Rear	
	26	26	02 ✓			
	27	27	03 ✓		(R5) DDT	
	28	28	04 ✓		(R10) Pest/Chlordane	
	29	29	05 ✓		(R5)	
	30	30	06 ✓			
	31	31	07 ✓		ND	
	32	32	08 ✓		ND	
	33	33	09 ✓		(R5) /Chlordane	
	34	34	10 ✓			
	35	35	11 ✓		(R5) (R3) Chlordane/Pest	
	36	36	12 ✓			
	37	37	13 ✓			
	38	38	14 ✓		(R5)	
	39	39	15 ✓			
	40	40	16 ✓			
	41	41	17 ✓			
	21	21	PEM ~~Hexane~~ ✓		09:39 AM	
	12	12	Chlordane ✓		6F 14091 10:07 AM	
	24	24	Pest SD CC ✓		6F 14081 Hexa H-F only 10:35 AM	
6/14/06	24	GE061468-24	Pest SD CC	8081 EF	6F 14081	SEF
6/14/06	42	42	BF61216-BIK1		(R2)	SEF
	43	43	BS1			
	44	44	BSD1			
6/14/06	45	GE061468-45	0606113-18	8081 EF		SEF

CONTROL NUMBER 60.0012-0602A

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ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/14/06	46	GE061468-46	0606143-01 ✓	8081EX	use as confirmation (RR)	SB
	47	47	02 ✓		use as confirmation	
	48	48	1242			
	49	49	0606113-03		5x	
	50	50	04		10x	
	51	51	05		5x	
	52	52	09		5x	
	53	53	11		2x	
	54	54	14		5x	
	55	55	Hexane			
	56	56	BF61007-BIK1			
	57	57	BS1			
	58	58	BSD1			
	59	59	PEM			
	60	60	chlor 250		6F15064	
	61	61	Pest 50 cc ✓		6F15064 8:29 PM Peak: DDT/methoxyclor	NS
	61	61	Pest 50 cc		6F15064	
	62	62	0606131-01		(RR)	
	63	63	02			
	64	64	03			
	65	65	04			
	66	66	06			
	67	67	07			
	68	68	08			
	69	69	09			
6/14/06	70	GE061468-70	10	8081SF		SB

CONTROL NUMBER 60.0012-0602A

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ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/14/06	71	GE0614GB-71	0606131 - 11	8081SF	(RR)	SB
	72	72	12			
	73	73	13			
	74	74	14			
	75	75	15			
	76	76	16			
	77	77	17			
	59	59	PEM			
	60	60	Chlor 250		6F15065	
	61	61	Pest 50 CC		6F15064	
	62	62	Pest 50 CC		6F15064	

CONTROL NUMBER 60.0012-0602A

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Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06146B\023F0201.D Vial: 23
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06146B\023F0201.D\023R0201.D
Acq On : 14 Jun 06 11:50 PM Operator: [GC]3R0201.D\DATA.MS
Sample : PEM -1 Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 15 8:30 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EF.M
Title :
Last Update : Thu Jun 15 06:45:03 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.52	8.65	3239937	1109495	46.107	46.223
					Recovery	=	92.21%	92.45%
23)	S	Decachlorobiphenyl	17.95	20.55	2076039	902932	41.616	41.672
					Recovery	=	83.23%	83.34%
		Target Compounds						
2)	M	Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3)	M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	M	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
5)	M	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6)	M	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	M	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
8)	M	Aldrin	0.00	0.00	0	0	N.D.	N.D.
9)	M	Heptachlor Epoxide	0.00	0.00	0	0	N.D.	N.D.
10)	M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12)	M	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	M	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
14)	M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15)	M	Endrin	13.91	15.23	4793049	1703704	110.455	105.131m
16)	M	4,4'-DDD	0.00	15.34	0	62370	N.D.d	4.886m
17)	M	Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18)	M	4,4'-DDT	14.47	15.87	4319016	1611034	94.685	102.561
19)	M	Endrin Aldehyde	14.99	16.14	105243	49792	1.243m	2.271m#
20)	M	Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
21)	M	Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22)	M	Endrin Ketone	16.18	17.67	316902	133134	4.086	6.563m#

$\varepsilon \frac{422145}{5215195} = 8.09\%$ DDT $\frac{0}{4319016} = 0\%$

$\varepsilon \frac{182926}{1886630} = 9.70\%$ DDT $\frac{62370}{1673404} = 3.73\%$

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06146B\024F0301.D Vial: 24
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06146B\024F0301.D\024R0301.D
Acq On : 15 Jun 06 00:46 AM Operator: [GC]4R0301.D\DATA.MS
Sample : PEST 50CC CCV1 Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 15 6:50 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EF.M
Title :
Last Update : Thu Jun 15 06:45:03 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.52	8.65	3533222	1218567	50.515	50.710
					Recovery	=	101.03%	101.42%
23)	S	Decachlorobiphenyl	17.95	20.55	2547854	1113988	51.744	51.864
					Recovery	=	103.49%	103.73%
		Target Compounds						
2)	M	Hexachlorobenzene	8.52	9.82	5673881	2033417	52.596	51.793
3)	M	alpha-BHC	8.95	10.16	4040464	1404655	50.689	49.521
4)	M	gamma-BHC (Lindane)	9.67	10.93	3778787	1354188	50.994	50.115
5)	M	beta-BHC	9.89	11.11	2101539	729023	51.941	51.140
6)	M	delta-BHC	10.25	11.70	3697328	1305442	50.741	49.799
7)	M	Heptachlor	10.66	11.84	3682801	1296320	49.585	49.913
8)	M	Aldrin	11.25	12.47	3330641	1237945	50.965	50.457
9)	M	Heptachlor Epoxide	12.39	13.52	3145438	1197956	51.390	50.532
10)	M	gamma-Chlordane	12.61	13.86	3204349	1238600	51.491	51.221
11)	M	alpha-Chlordane	12.85	14.11	3073412	1218430	50.726	51.587
12)	M	4,4'-DDE	12.98	14.36	2901153	1137456	50.386	50.471
13)	M	Endosulfan I	13.09	14.23	3075111	1111101	51.087	50.822
14)	M	Dieldrin	13.51	14.71	2798450	1088418	50.431	50.063
15)	M	Endrin	13.91	15.23	2149292	804456	49.555	50.581
16)	M	4,4'-DDD	14.00	15.34	2367009	890920	49.569	50.045
17)	M	Endosulfan II	14.29	15.59	2602967	1031523	50.463	49.638
18)	M	4,4'-DDT	14.47	15.87	2042077	709683	44.478	47.448
19)	M	Endrin Aldehyde	15.00	16.15	2329707	931190	51.135	50.633
20)	M	Methoxychlor	15.25	17.02	1289768	474805	46.626	48.369
21)	M	Endosulfan Sulfate	15.72	16.64	2431254	949979	49.393	50.218
22)	M	Endrin Ketone	16.20	17.69	3200843	1298672	51.336	50.010

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06146B\012F0401.D Vial: 12
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06146B\012F0401.D\012R0401.D
Acq On : 15 Jun 06 01:14 AM Operator: [GC]2R04O1.D\DATA.MS
Sample : CHLOR CCV2 Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 15 8:24 19106

Method : Q:\SVOA\GC3_GE\METHODS\CHADIC.M
Title :
Last Update : Thu Jun 15 08:22:42 2006
Response via : Multiple Level Calibration

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.51	8.65	1600995	510934	26.410m	24.432
					Recovery	=	52.82%	48.86%
6)	S	Decachlorobiphenyl	17.95	20.56	1114383	474658	24.066m	24.682
					Recovery	=	48.13%	49.36%
		Target Compounds						
2)	L	Chlordane (1)	10.50	11.55	587151	194024	282.488	253.162
3)	L	Chlordane (2)	10.66	11.84	952022	304596	267.705	259.512
4)	L	Chlordane (3)	12.61	13.86	1926613	712872	262.946	255.518
5)	L	Chlordane (4)	12.84	14.11	2984016	611756	260.592	250.887
		Total Chlordane (1)			6449803	1823247	1073.731	1019.078
		Average Chlordane (1)					268.433	254.769

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06146B\023F0601.D Vial: 23
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06146B\023F0601.D\023R0601.D
Acq On : 15 Jun 06 09:39 AM Operator: [GC]3R0601.D\DATA.MS
Sample : PEM -2 Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 15 10:39 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EF.M
Title :
Last Update : Thu Jun 15 06:45:03 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.51	8.65	3456903	1151674	49.368	47.958
					Recovery	=	98.74%	95.92%
23)	S	Decachlorobiphenyl	17.95	20.55	2172754	1013559	43.692	47.014
					Recovery	=	87.38%	94.03%
		Target Compounds						
2)	M	Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3)	M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	M	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
5)	M	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6)	M	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	M	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
8)	M	Aldrin	0.00	0.00	0	0	N.D.	N.D.
9)	M	Heptachlor Epoxide	0.00	0.00	0	0	N.D.	N.D.
10)	M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12)	M	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	M	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
14)	M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15)	M	Endrin	13.91	15.23	5252670	1730518	121.042	106.757
16)	M	4,4'-DDD	13.99	15.34	118039	54011	3.330m	4.430m#
17)	M	Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18)	M	4,4'-DDT	14.46	15.87	4240024	1614693	92.943	102.785
19)	M	Endrin Aldehyde	15.00	16.13	28924	15112	N.D.m	0.368m
20)	M	Methoxychlor	0.00	0.00	0	0	N.D.	N.D.
21)	M	Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22)	M	Endrin Ketone	16.18	17.67	345611	166922	4.557	7.823m#

E $\frac{374535}{562705} = 6.66\%$ D $\frac{118039}{4358063} = 2.71\%$

E $\frac{182034}{1912552} = 9.51\%$ D $\frac{54011}{1686704} = 3.23\%$

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06146B\012F0701.D Vial: 12
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06146B\012F0701.D\012R0701.D
Acq On : 15 Jun 06 10:07 AM Operator: [GC]2R0701.D\DATA.MS
Sample : CHLOR CCV3 Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 15 10:53 19106

Method : Q:\SVOA\GC3_GE\METHODS\CHADIC.M
Title :
Last Update : Thu Jun 15 08:22:42 2006
Response via : Multiple Level Calibration

Volume Inj. : 1 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.51	8.65	1662245	527420	27.421m	25.220
					Recovery	=	54.84%	50.44%
6)	S	Decachlorobiphenyl	17.94	20.55	1123147	466135	24.255m	24.239
					Recovery	=	48.51%	48.48%
		Target Compounds						
2)	L	Chlordane (1)	10.49	11.55	585867	192323	281.870	250.943
3)	L	Chlordane (2)	10.66	11.84	965592	308054	271.521	262.457
4)	L	Chlordane (3)	12.61	13.86	1921419	708716	262.237	254.028
5)	L	Chlordane (4)	12.83	14.11	2963600	605860	258.809	248.469
		Total Chlordane (1)			6436478	1814953	1074.437	1015.897
		Average Chlordane (1)					268.609	253.974

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06146B\024F0801.D Vial: 24
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06146B\024F0801.D\024R0801.D
Acq On : 15 Jun 06 10:35 AM Operator: [GC]4R08O1.D\DATA.MS
Sample : PEST 50CC CCV 4 Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 15 11:39 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EF.M
Title :
Last Update : Thu Jun 15 06:45:03 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.51	8.65	3874736	1319061	55.649	54.844
					Recovery	=	111.30%	109.69%
23)	S	Decachlorobiphenyl	17.95	20.56	2709733	1176743	55.219	54.894
					Recovery	=	110.44%	109.79%
		Target Compounds						
2)	M	Hexachlorobenzene	8.51	9.82	6194182	2202100	57.844	56.172
3)	M	alpha-BHC	8.95	10.15	4480538	1542620	56.135	53.976
4)	M	gamma-BHC (Lindane)	9.67	10.93	4165419	1476764	56.223	54.364
5)	M	beta-BHC	9.89	11.11	2295869	786596	56.853	55.124
6)	M	delta-BHC	10.25	11.70	4053824	1423271	55.517	53.968
7)	M	Heptachlor	10.66	11.84	3976627	1399476	53.667	53.728
8)	M	Aldrin	11.25	12.47	3586184	1327218	54.892	53.926
9)	M	Heptachlor Epoxide	12.39	13.52	3343749	1260686	54.702	53.173
10)	M	gamma-Chlordane	12.61	13.86	3406115	1306877	54.787	54.006
11)	M	alpha-Chlordane	12.85	14.11	3253096	1282679	53.848	54.283
12)	M	4,4'-DDE	12.98	14.36	3107392	1207116	54.041	53.462
13)	M	Endosulfan I	13.09	14.23	3244105	1171449	53.934	53.515
14)	M	Dieldrin	13.51	14.71	2952506	1150545	53.202	52.805
15)	M	Endrin	13.91	15.23	2352898	866510	54.246	54.346
16)	M	4,4'-DDD	14.00	15.34	2577226	959931	53.892	53.807
17)	M	Endosulfan II	14.29	15.59	2746200	1086074	53.266	52.281
18)	M	4,4'-DDT	14.46	15.87	2063247	722510	44.944	48.233
19)	M	Endrin Aldehyde	15.00	16.15	2400264	968251	52.718	52.667
20)	M	Methoxychlor	15.25	17.03	1331726	487277	48.136	49.594
21)	M	Endosulfan Sulfate	15.72	16.64	2504707	998832	50.883	52.755
22)	M	Endrin Ketone	16.20	17.69	3371277	1393583	54.129	53.548

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06146B\061F0901.D Vial: 61
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06146B\061F0901.D\061R0901.D
Acq On : 15 Jun 06 08:24 PM Operator: [GC]1R0901.D\DATA.MS
Sample : PEST 50CC CCV5 Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 16 6:30 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EF.M
Title :
Last Update : Thu Jun 15 06:45:03 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.51	8.65	3547799	1201136	50.735	49.993
					Recovery	=	101.47%	99.99%
23)	S	Decachlorobiphenyl	17.94	20.55	2432001	1070020	49.257	49.741
					Recovery	=	98.51%	99.48%
		Target Compounds						
2)	M	Hexachlorobenzene	8.51	9.81	5694483	2013541	52.804	51.277
3)	M	alpha-BHC	8.95	10.15	4059278	1392594	50.922	49.131
4)	M	gamma-BHC (Lindane)	9.67	10.93	3797542	1355903	51.248	50.174
5)	M	beta-BHC	9.89	11.11	2090715	725590	51.667	50.903
6)	M	delta-BHC	10.25	11.70	3721134	1286020	51.059	49.112
7)	M	Heptachlor	10.66	11.84	3523134	1223004	47.367	47.202
8)	M	Aldrin	11.24	12.47	3346502	1230598	51.209	50.171
9)	M	Heptachlor Epoxide	12.39	13.52	3127045	1175952	51.083	49.606
10)	M	gamma-Chlordane	12.61	13.85	3201828	1235534	51.450	51.096
11)	M	alpha-Chlordane	12.84	14.11	3072737	1213795	50.714	51.393
12)	M	4,4'-DDE	12.98	14.35	2848173	1121736	49.448	49.796
13)	M	Endosulfan I	13.08	14.23	3055169	1099233	50.751	50.293
14)	M	Dieldrin	13.50	14.70	2758474	1069895	49.712	49.246
15)	M	Endrin	13.90	15.23	1845830	694895	42.565	43.935
16)	M	4,4'-DDD	14.00	15.34	2394185	893509	50.128	50.186
17)	M	Endosulfan II	14.29	15.58	2558492	1046525	49.593	50.364
18)	M	4,4'-DDT	14.46	15.87	1689260	557371	36.698	38.135
19)	M	Endrin Aldehyde	14.99	16.15	2208149	916630	48.409	49.834
20)	M	Methoxychlor	15.25	17.02	1000999	409703	36.234	41.975
21)	M	Endosulfan Sulfate	15.72	16.64	2297867	917362	46.688	48.523
22)	M	Endrin Ketone	16.19	17.69	3070311	1311177	49.198	50.476

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ANALYSIS SEQUENCE

BPG0215

Instrument: SVOAGC3

Calibnration ID: ~~UNASSIGNED~~ 8081EG

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0215-PEM1	QC		1		6E02036		
BPG0215-CAL1	QC		2		6F14082		
BPG0215-CAL2	QC		3		6F14083		
BPG0215-CAL3	QC		4		6F14084		
BPG0215-CAL4	QC		5		6F14085		
BPG0215-CAL5	QC		6		6F14086		
BPG0215-CAL6	QC		7		6F14087		
BPG0215-CAL7	QC		8		6F14088		
BPG0215-SCV1	QC		9		6F14090		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/14/06	71	GE061468-71	0606131 - 11	8081EC	(RR)	SB
	72	72	12			
	73	73	13			
	74	74	14			
	75	75	15			
	76	76	16			
	77	77	17			
	59	59	PEM			
	60	60	Chlor 250		GF15065	
	61	61	Pest 50 CC		GF15064	
6/14/06	66	61	Pest 50 CC		GF15064	
6/16/06	1	GE061660-01	Prime	8081EC		SB
	2	02	Perm ✓		GE02036	
	3	03 03	Pest 50 CC Pest 50 CC			
	4	04	Pest 5 ppb ✓		GF14052	
	5	05	10 ppb ✓		083	
	6	06	20 ppb ✓		084	
	7	07	50 ppb ✓		085	
	8	08	60 ppb ✓		086	
	9	09	80 ppb ✓		087	
	10	10	100 ppb ✓		088	
	11	11	51 ✓		089	
	12	12	pest 55 ✓		GF14090	
	13	13	BFC1216 - BIC1 ✓			
	14	14	1551 ✓			
6/16/06	15	GE061660-15	BSD ✓	8081EC		SB

CONTROL NUMBER 60.0012-0602A

PAGE_____

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06166D\002F0101.D Vial: 2
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06166D\002F0101.D\002R0101.D
Acq On : 16 Jun 06 03:11 PM Operator: [GC]2R01O1.D\DATA.MS
Sample : PEM Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 19 7:53 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EG.M
Title :
Last Update : Sat Jun 17 10:40:15 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.41	8.56	3115700	974093	43.842	40.658
					Recovery	=	87.68%	81.32%
23)	S	Decachlorobiphenyl	17.81	20.38	1859393	832393	36.218	37.821
					Recovery	=	72.44%	75.64%
		Target Compounds						
2)	M	Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3)	M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	M	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
5)	M	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6)	M	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	M	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
8)	M	Aldrin	0.00	0.00	0	0	N.D.	N.D.
9)	M	Heptachlor Epoxide	0.00	0.00	0	0	N.D.	N.D.
10)	M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12)	M	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	M	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
14)	M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15)	M	Endrin	13.79	15.13	4331169	1500239	99.866m	95.600m
16)	M	4,4'-DDD	13.91	15.25	185024	65568	4.602m	5.795m#
17)	M	Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18)	M	4,4'-DDT	14.36	15.77	2795563	1020293	84.791	94.196
19)	M	Endrin Aldehyde	14.88	16.04	32148	11803	1.000m	1.211m
20)	M	Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
21)	M	Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22)	M	Endrin Ketone	0.00	0.00	0	0	N.D.d	N.D.d

Σ $\frac{32148}{4343317} = 0.74\%$ DDT $\frac{185024}{2980587} = 6.21\%$

Σ $\frac{11803}{1512042} = 0.78\%$ DDT $\frac{65568}{1565807} = 4.19\%$

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Response Factor Report GC3

ALL linear

Method : Q:\SVOA\GC3_GE\METHODS\8081EG.M
Title :
Last Update : Sat Jun 17 10:40:15 2006
Response via : Initial Calibration

Calibration Files
10 =005F0201.D 20 =006F0201.D 5 =004F0201.D
60 =008F0201.D 80 =009F0201.D 100 =010F0201.D

		Compound	10	20	5	60	80	100	Avg	%F
1)	S	Tetrachloro-m-xylen	78.8	78.4	80.7	70.7	70.8	67.6	74.2 E3	6
2)	M	Hexachlorobenzene	138.8	134.0	143.5	112.2	112.3	105.1	123.1 E3	12
3)	M	alpha-BHC	78.0	82.6	75.1	82.0	85.9	82.7	81.3 E3	4
4)	M	gamma-BHC (Lindane)	73.2	78.3	72.0	74.3	77.8	75.0	75.2 E3	3
5)	M	beta-BHC	43.5	45.7	41.5	42.0	42.5	40.8	42.7 E3	3
6)	M	delta-BHC	70.8	75.8	68.7	75.9	78.8	76.1	74.7 E3	4
7)	M	Heptachlor	66.9	70.5	67.7	67.3	69.1	67.3	68.2 E3	1
8)	M	Aldrin	69.9	72.2	68.6	69.3	70.9	67.5	69.8 E3	2
9)	M	Heptachlor Epoxide	66.6	68.9	67.3	63.7	64.8	61.9	65.5 E3	3
10)	M	gamma-Chlordane	67.1	69.6	66.2	65.2	66.3	63.5	66.3 E3	2
11)	M	alpha-Chlordane	67.8	68.4	70.1	62.5	63.2	60.3	65.1 E3	5
12)	M	4,4'-DDE	60.5	62.4	59.5	59.0	60.2	57.6	59.8 E3	2
13)	M	Endosulfan I	64.7	67.3	63.8	64.0	65.4	62.9	64.7 E3	2
14)	M	Dieldrin	56.7	59.0	56.6	57.4	59.3	57.2	57.7 E3	1
15)	M	Endrin	39.8	42.7	40.0	42.7	44.4	42.9	42.2 E3	3
16)	M	4,4'-DDD	45.0	48.7	43.8	49.5	51.6	50.2	48.4 E3	5
17)	M	Endosulfan II	50.6	54.4	50.7	52.6	54.1	52.1	52.6 E3	2
18)	M	4,4'-DDT	30.9	27.3	33.5	31.9	32.9	33.7	31.6 E3	6
19)	M	Endrin Aldehyde	41.8	41.4	39.7	41.5	42.4	41.4	41.3 E3	2
20)	M	Methoxychlor	12.3	15.5	13.0	18.6	20.2	20.5	16.9 E3	19
21)	M	Endosulfan Sulfate	47.0	49.4	46.6	46.0	47.7	45.7	47.1 E3	2
22)	M	Endrin Ketone	54.0	59.0	52.6	57.4	58.5	57.1	56.6 E3	4
23)	S	Decachlorobiphenyl	56.3	57.5	57.0	50.0	50.9	47.8	53.0 E3	7

Signal #2 Calibration Files
10 =005R0201.D 20 =006R0201.D 5 =004R0201.D
60 =008R0201.D 80 =009R0201.D 100 =010R0201.D

		Compound	10	20	5	60	80	100	Avg	%F
1)	S	Tetrachloro-m-xylen	22.5	23.5	22.9	23.7	24.9	23.9	23.6 E3	3
2)	M	Hexachlorobenzene	42.2	41.7	42.2	39.1	40.3	38.7	40.5 E3	3
3)	M	alpha-BHC	19.7	22.4	18.6	27.6	30.2	30.1	25.1 E3	19
4)	M	gamma-BHC (Lindane)	19.5	22.1	19.0	25.8	27.8	27.4	24.0 E3	15
5)	M	beta-BHC	12.5	13.6	13.0	14.1	14.7	14.3	13.8 E3	5
6)	M	delta-BHC	18.0	21.3	17.2	25.6	27.8	27.4	23.2 E3	18
7)	M	Heptachlor	18.4	20.7	18.8	22.6	24.3	24.3	21.7 E3	11
8)	M	Aldrin	20.1	22.2	19.1	24.4	26.1	25.4	23.0 E3	11
9)	M	Heptachlor Epoxide	21.3	22.3	20.9	22.9	24.1	23.4	22.6 E3	5
10)	M	gamma-Chlordane	22.3	23.6	21.9	24.0	25.1	24.3	23.6 E3	4
11)	M	alpha-Chlordane	22.2	23.5	21.6	23.7	24.5	23.7	23.3 E3	4

(#) = Out of Range ### Number of calibration levels exceeded format ###

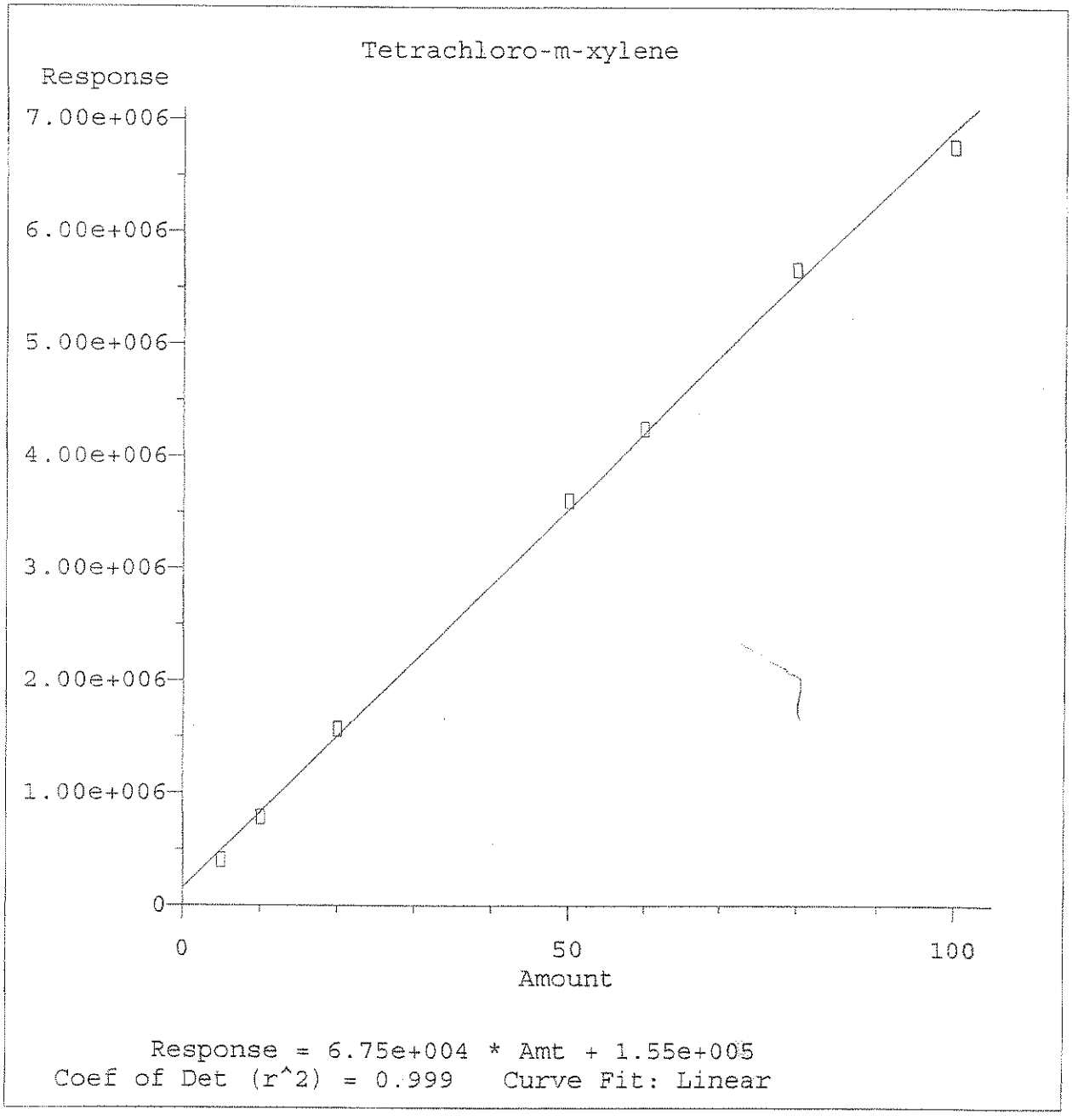
Response Factor Report GC3

Method : Q:\SVOA\GC3_GE\METHODS\8081EG.M
Title :
Last Update : Sat Jun 17 10:40:15 2006
Response via : Initial Calibration

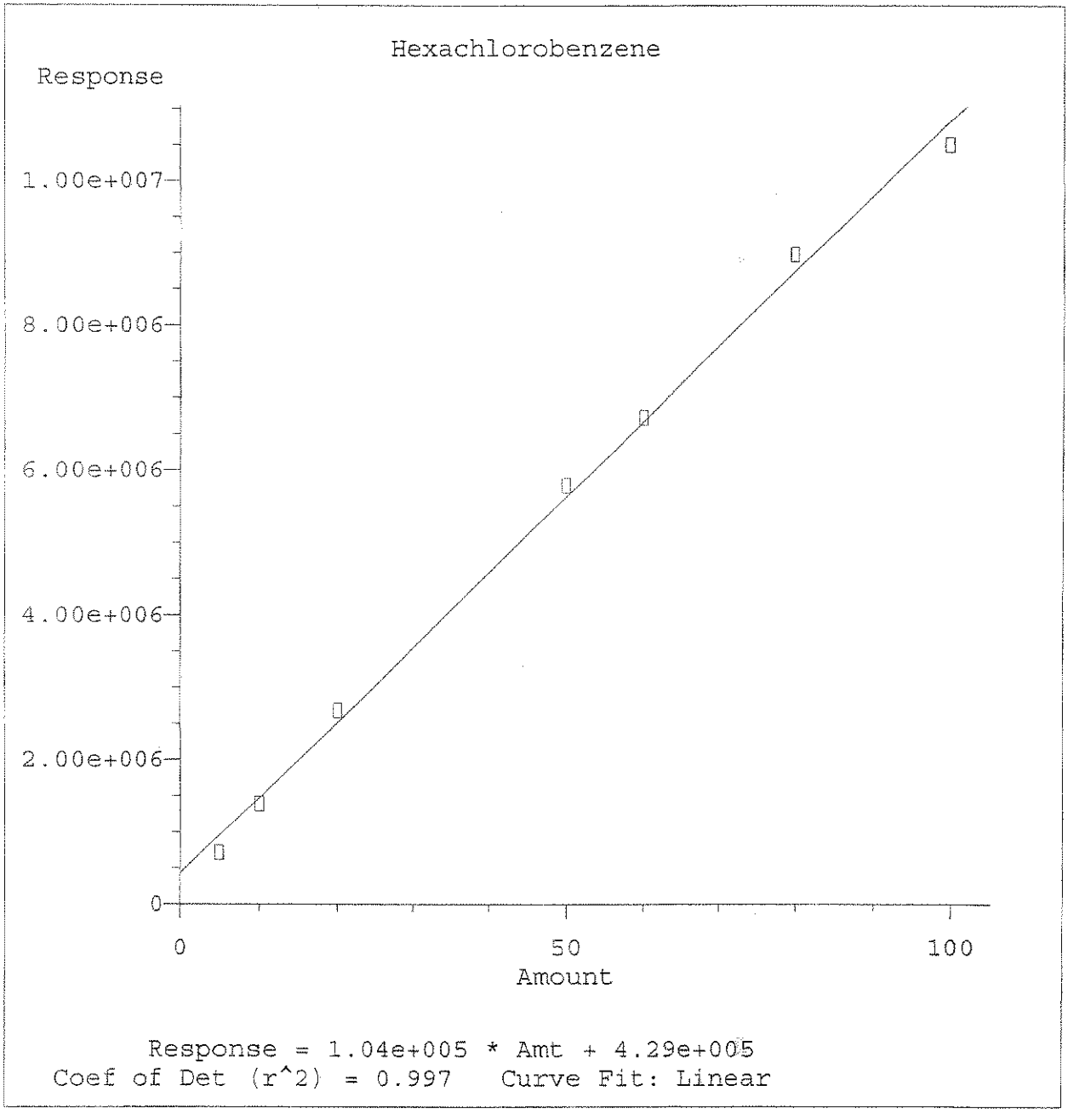
Calibration Files
10 =005R0201.D 20 =006R0201.D 5 =004R0201.D
60 =008R0201.D 80 =009R0201.D 100 =010R0201.D

		Compound	10	20	5	60	80	100	Avg		%RSD
12)	M	4,4'-DDE	19.7	21.5	18.8	22.7	24.0	23.3	21.8	E3	8.77
13)	M	Endosulfan I	18.9	20.5	18.6	21.5	22.6	22.1	20.8	E3	7.49
14)	M	Dieldrin	18.2	19.7	18.3	21.4	22.8	22.3	20.5	E3	9.11
15)	M	Endrin	12.1	13.3	11.7	14.9	16.1	15.8	14.0	E3	12.32
16)	M	4,4'-DDD	14.8	16.3	14.0	17.8	18.8	18.5	16.8	E3	10.93
17)	M	Endosulfan II	22.4	20.0	24.8	20.7	21.2	20.5	21.4	E3	7.71
18)	M	4,4'-DDT	4.9	6.8	4.5	9.6	10.7	11.4	8.1	E3	33.95
19)	M	Endrin Aldehyde	16.6	16.0	16.4	16.5	16.9	16.6	16.4	E3	1.85
20)	M	Methoxychlor	4.1	5.6	3.7	6.8	7.5	7.6	6.0	E3	26.49
21)	M	Endosulfan Sulfate	16.2	17.5	16.5	18.0	19.2	18.7	17.7	E3	6.05
22)	M	Endrin Ketone	20.6	23.2	20.2	25.3	26.2	25.7	23.7	E3	10.39
23)	S	Decachlorobiphenyl	23.4	23.7	23.9	21.6	22.1	21.0	22.6	E3	5.08

(#) = Out of Range ### Number of calibration levels exceeded format ###



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



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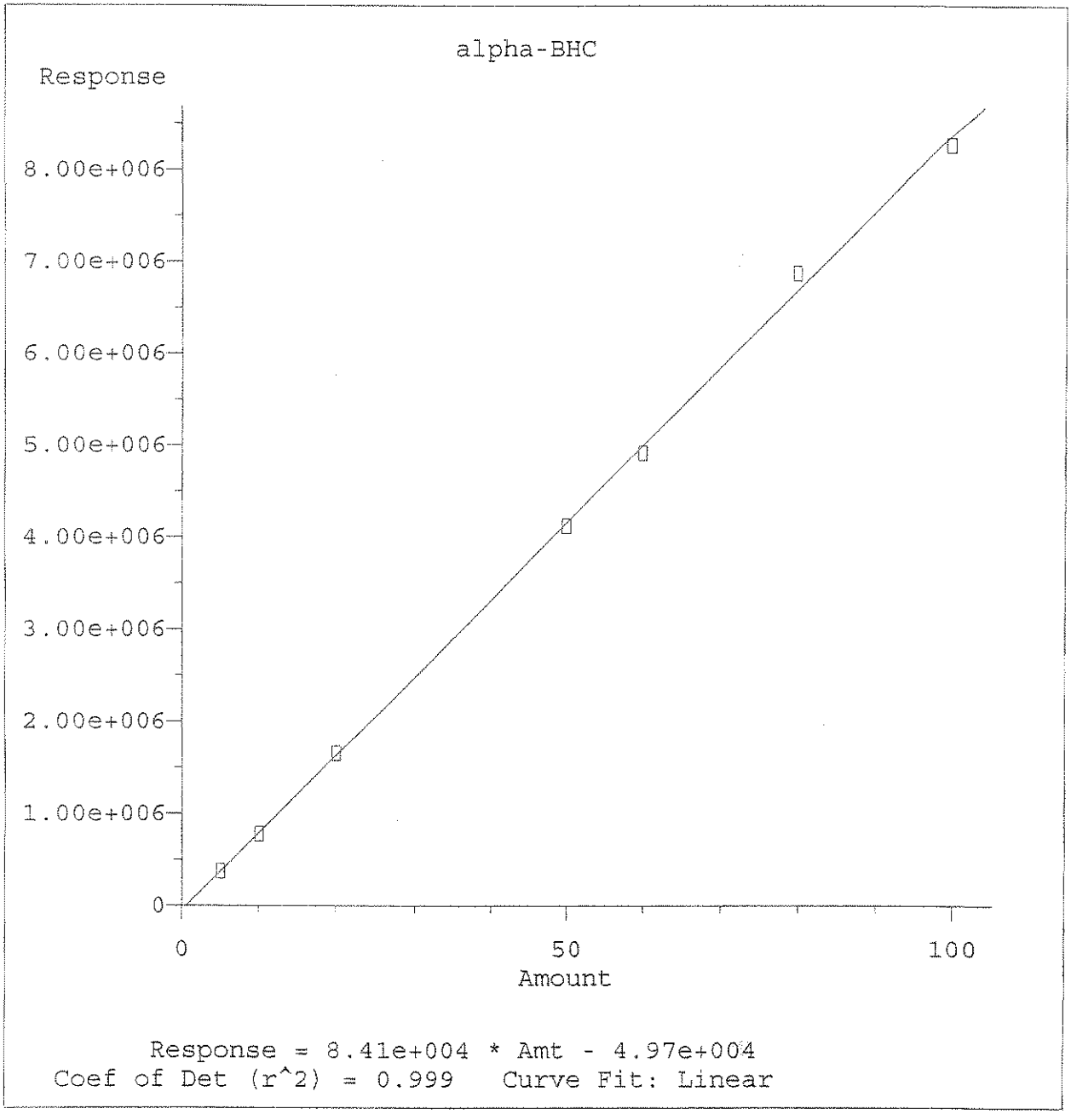
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



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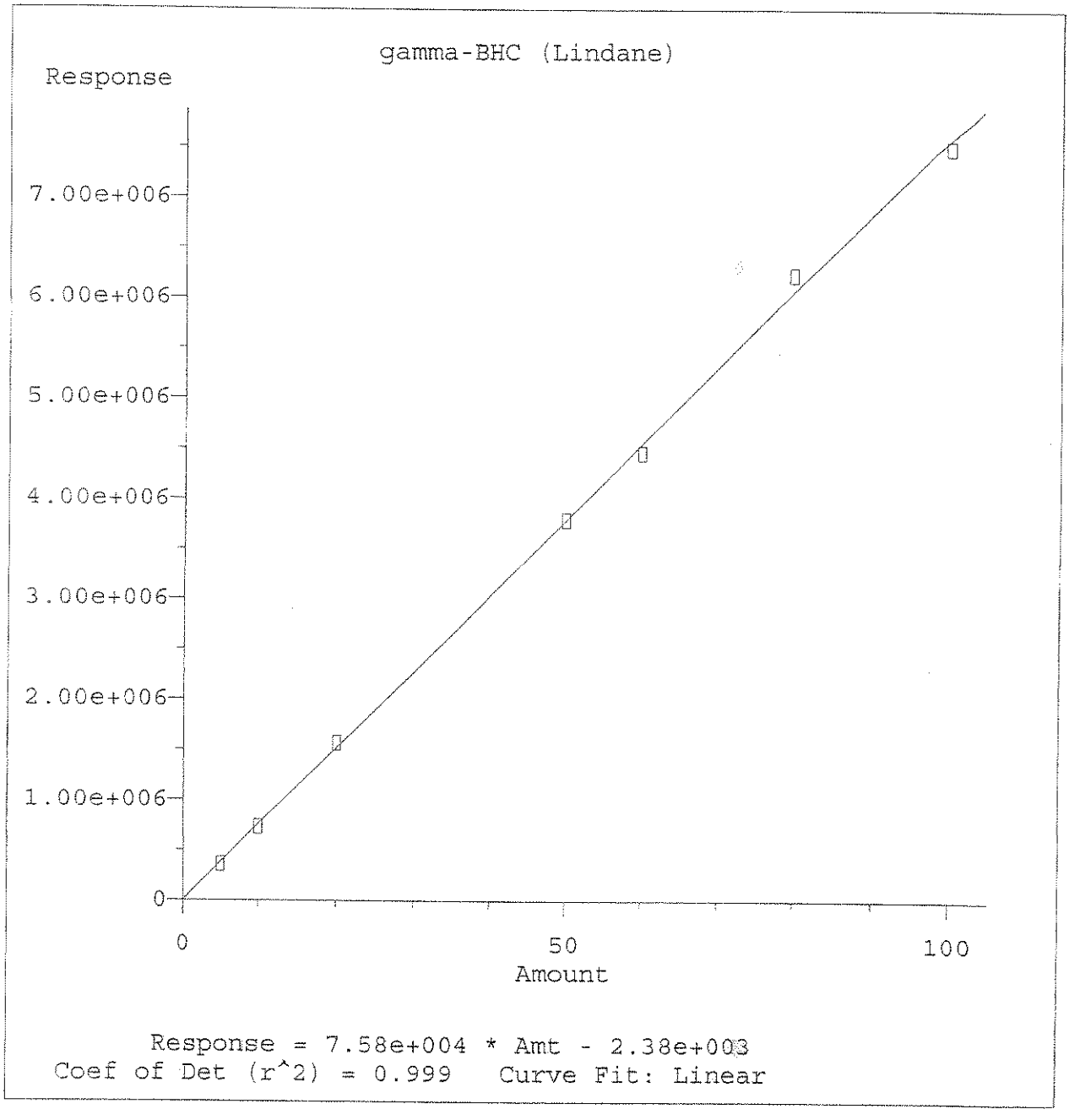

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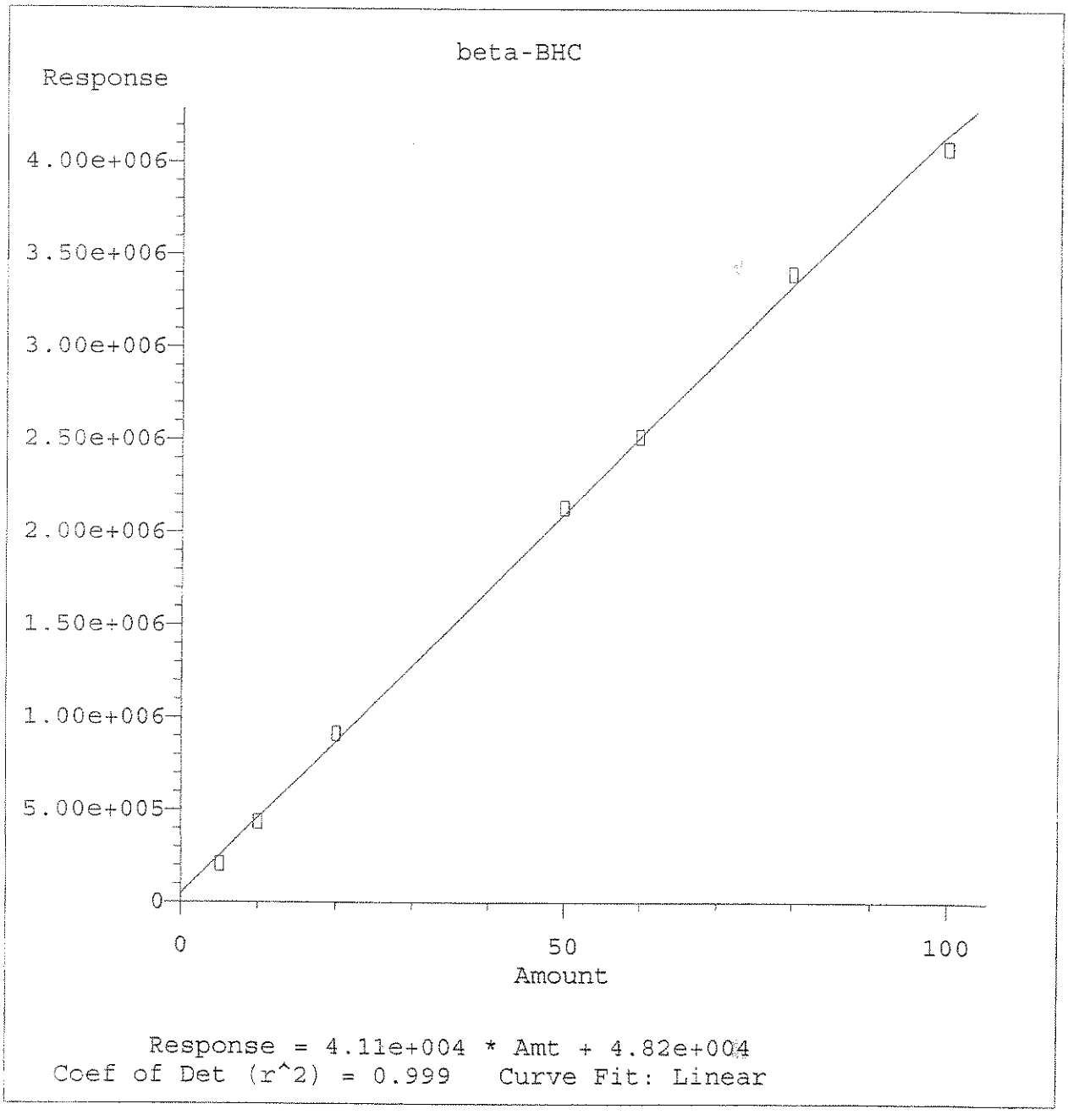

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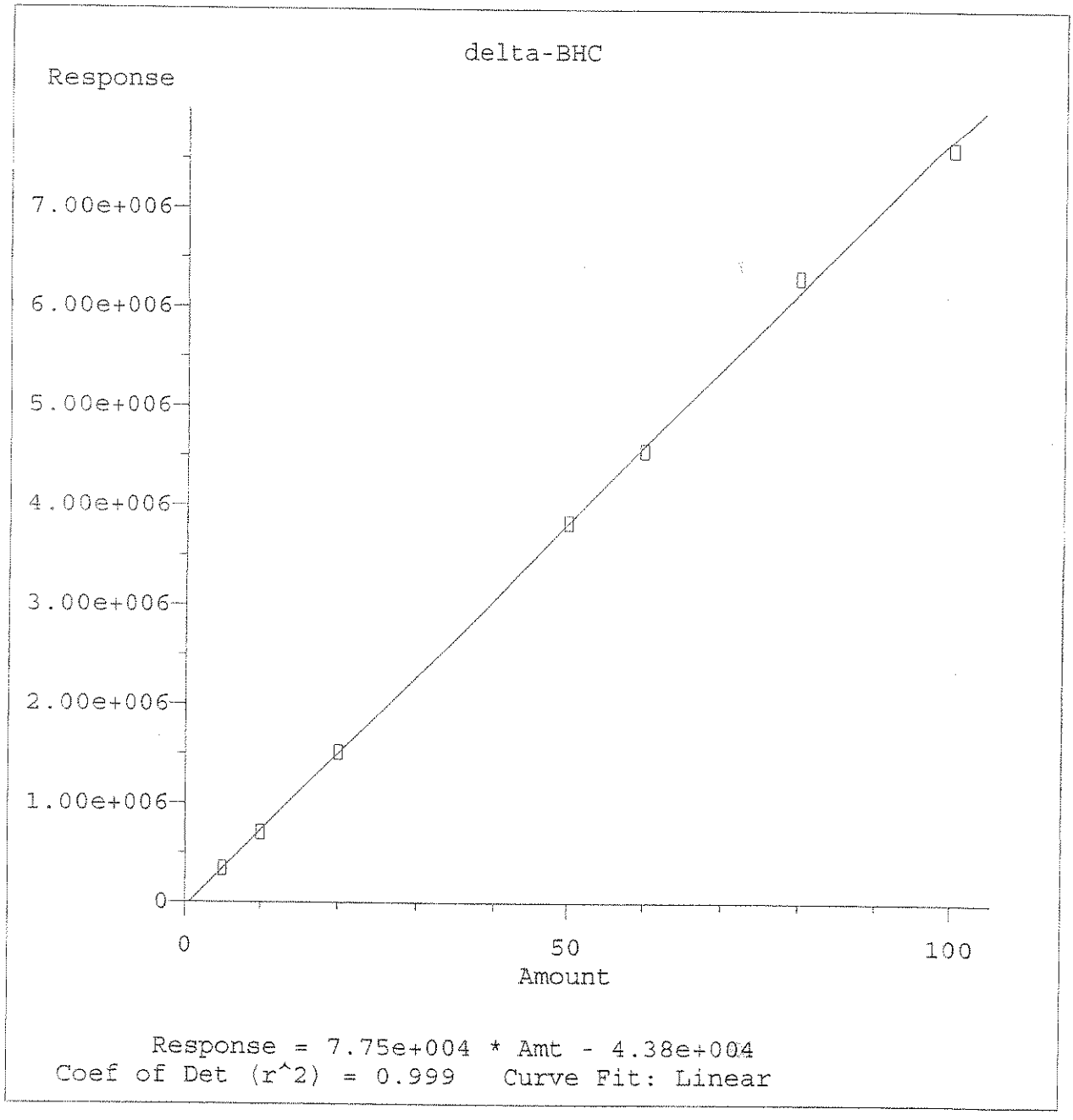

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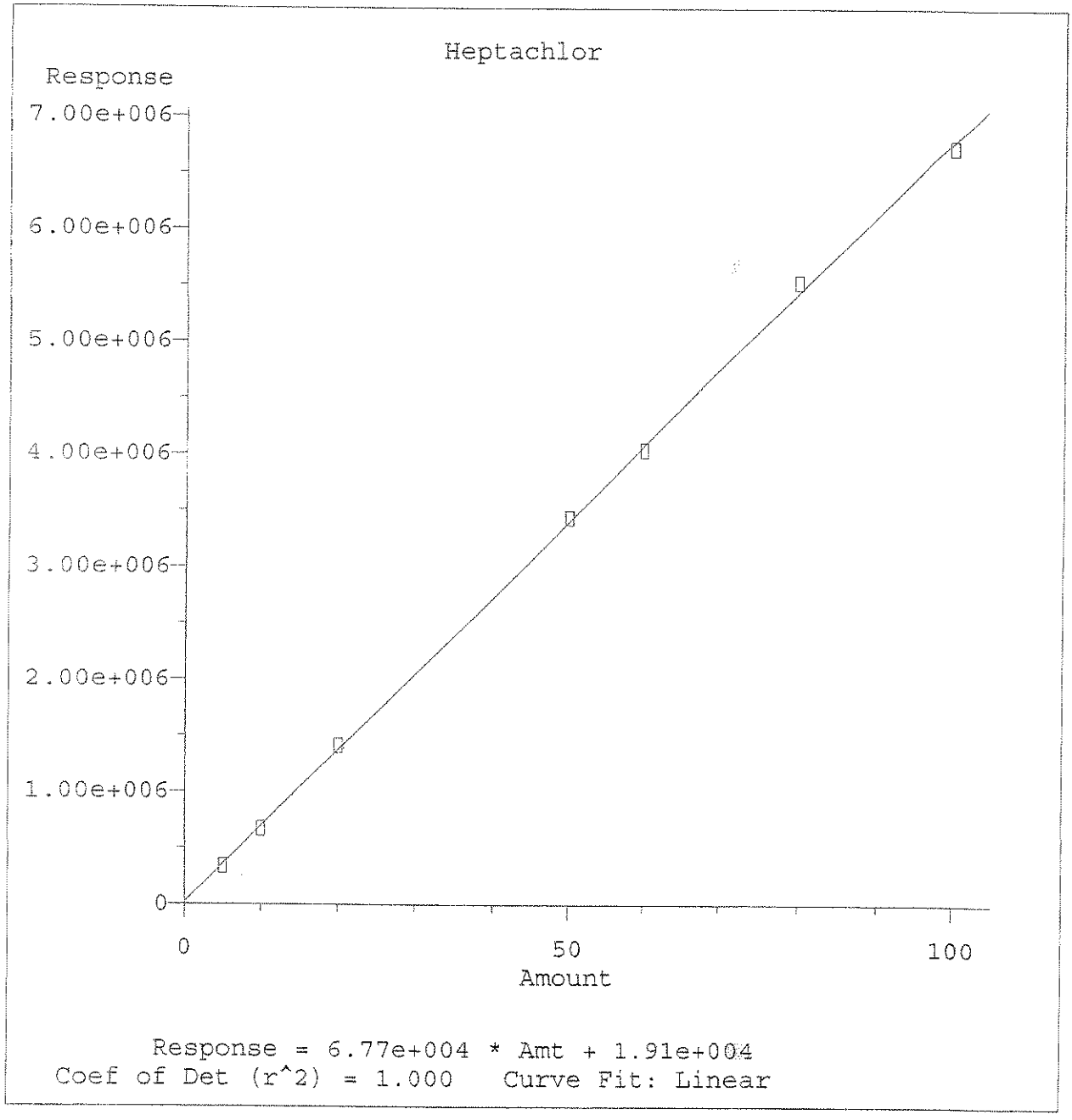

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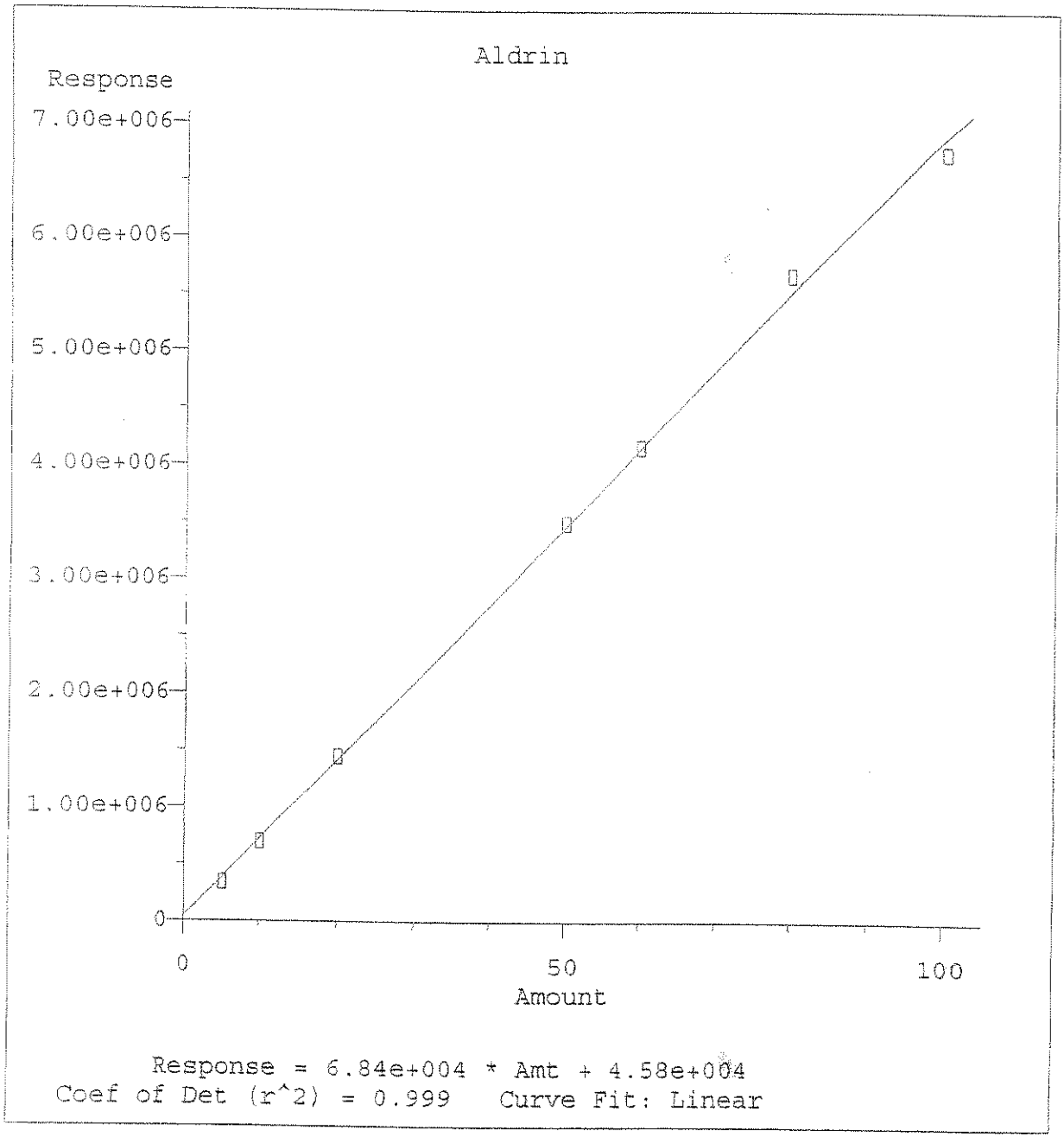

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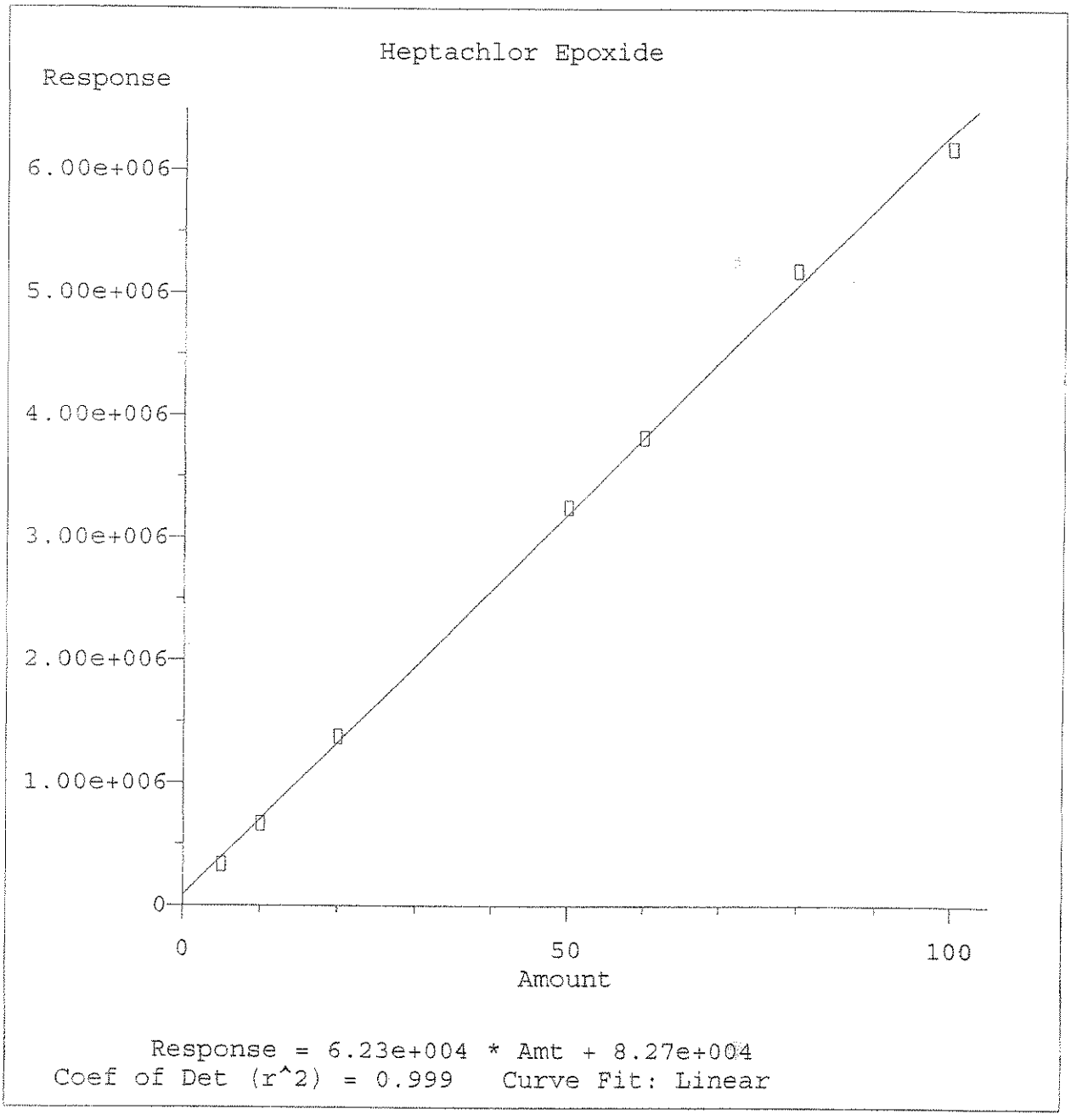

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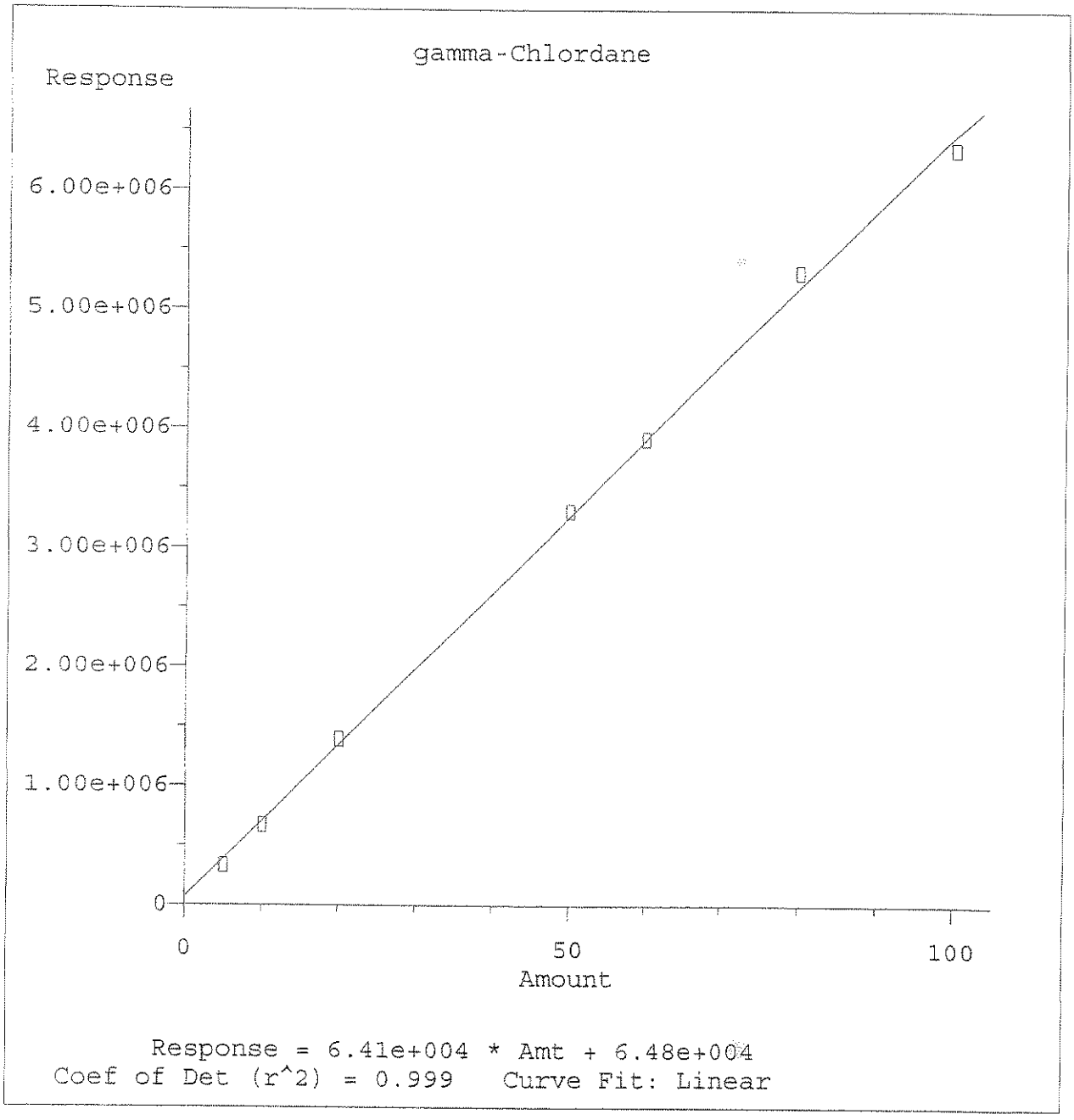

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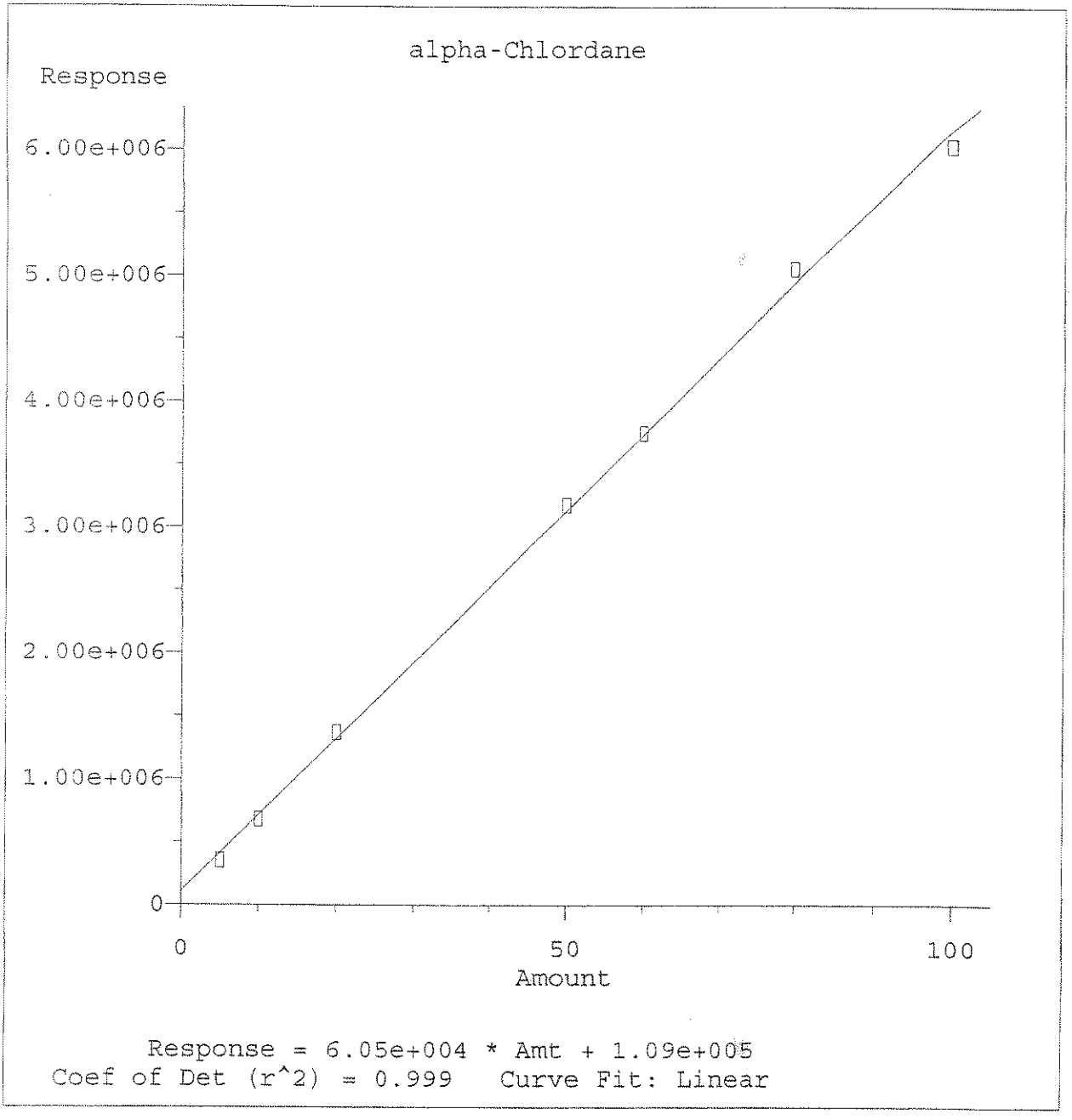
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



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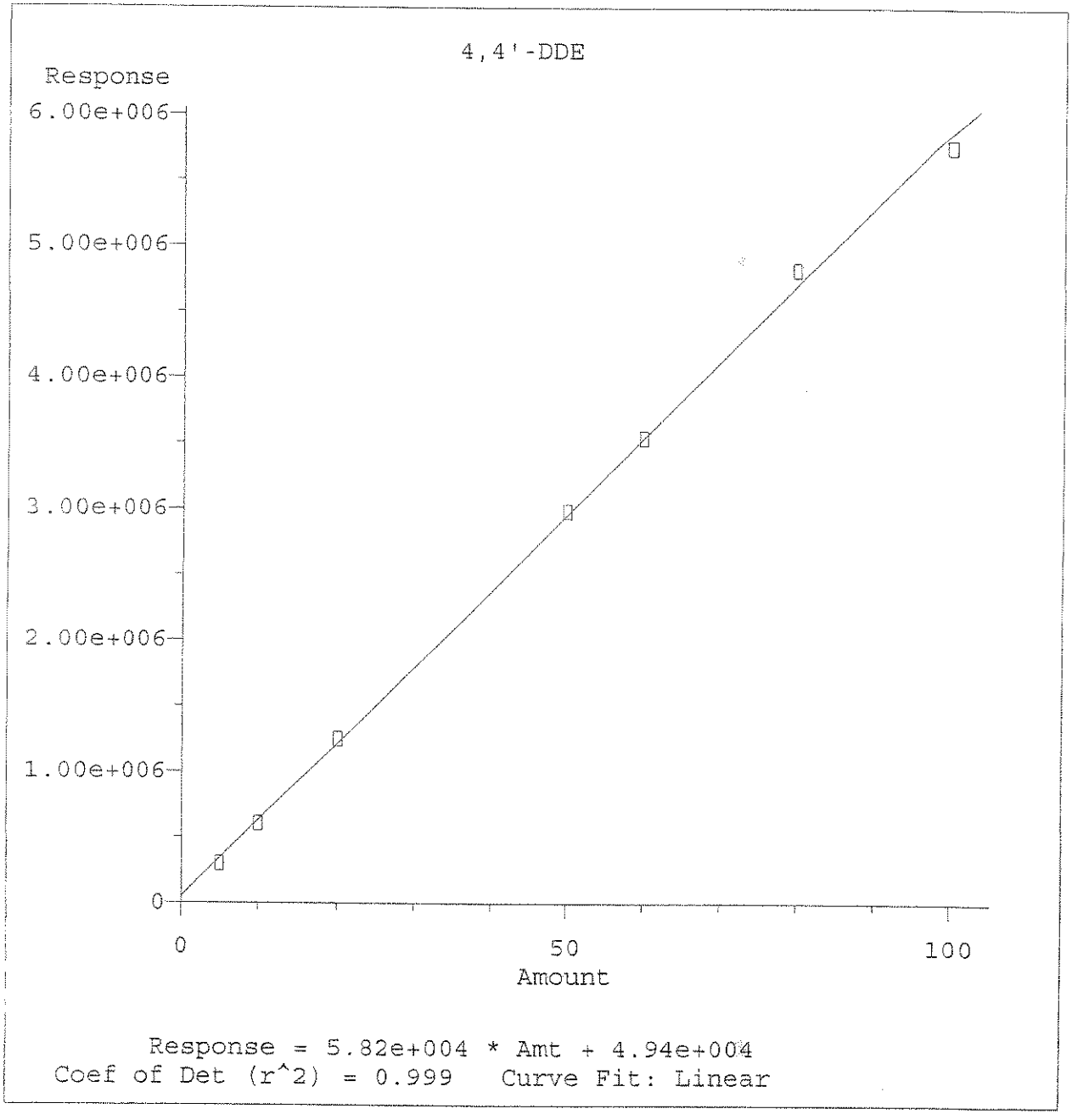
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



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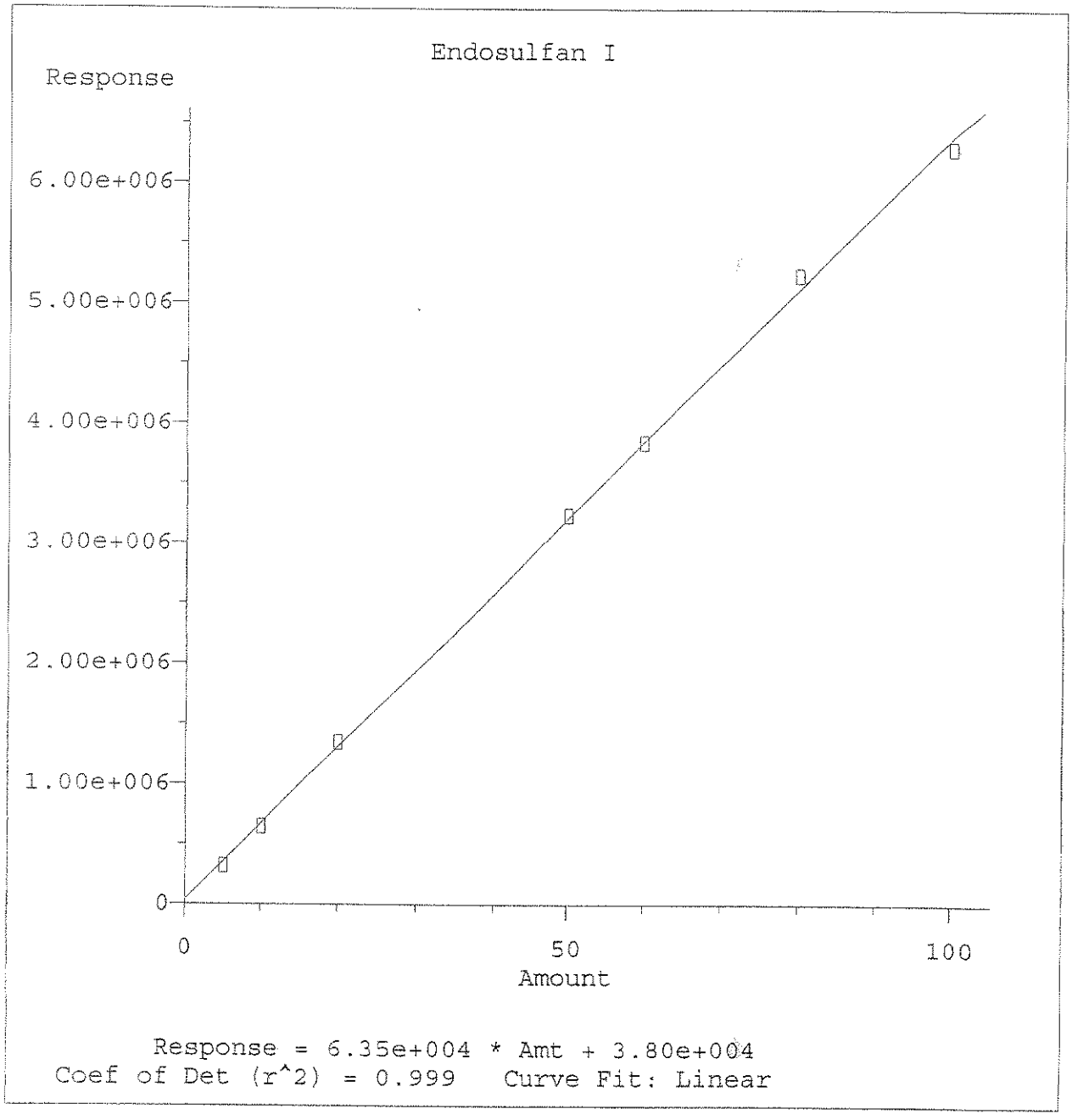
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



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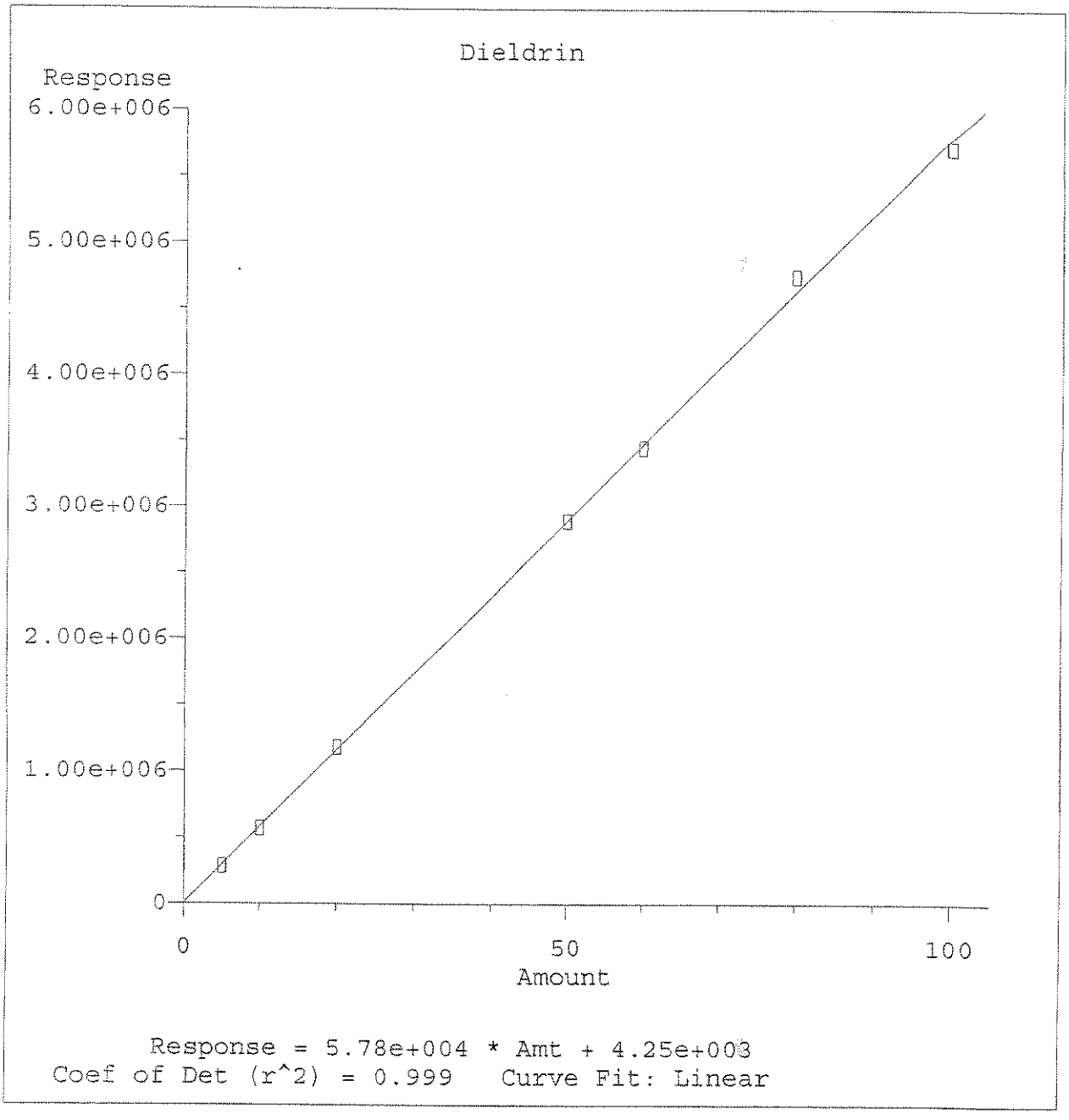

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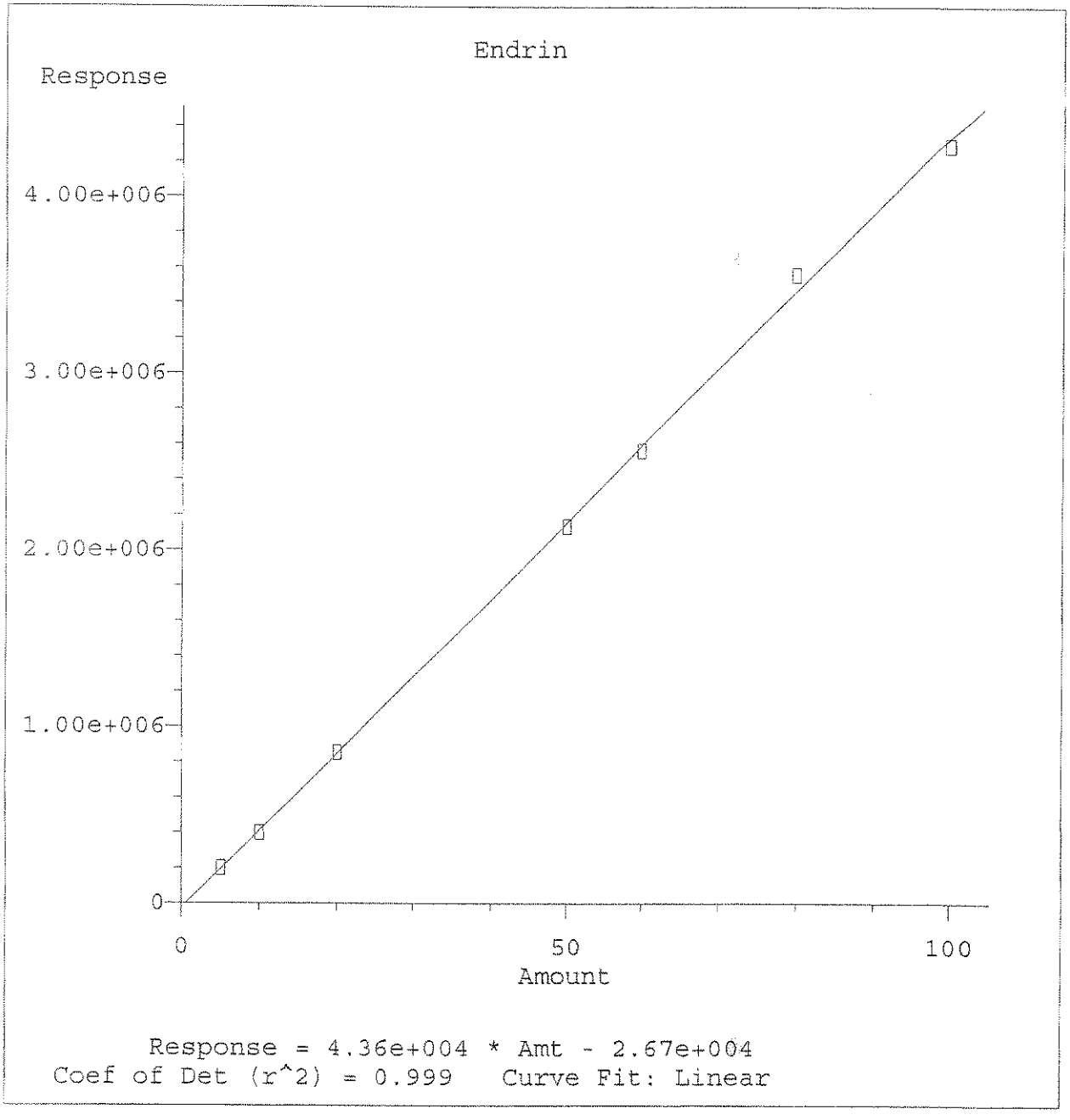

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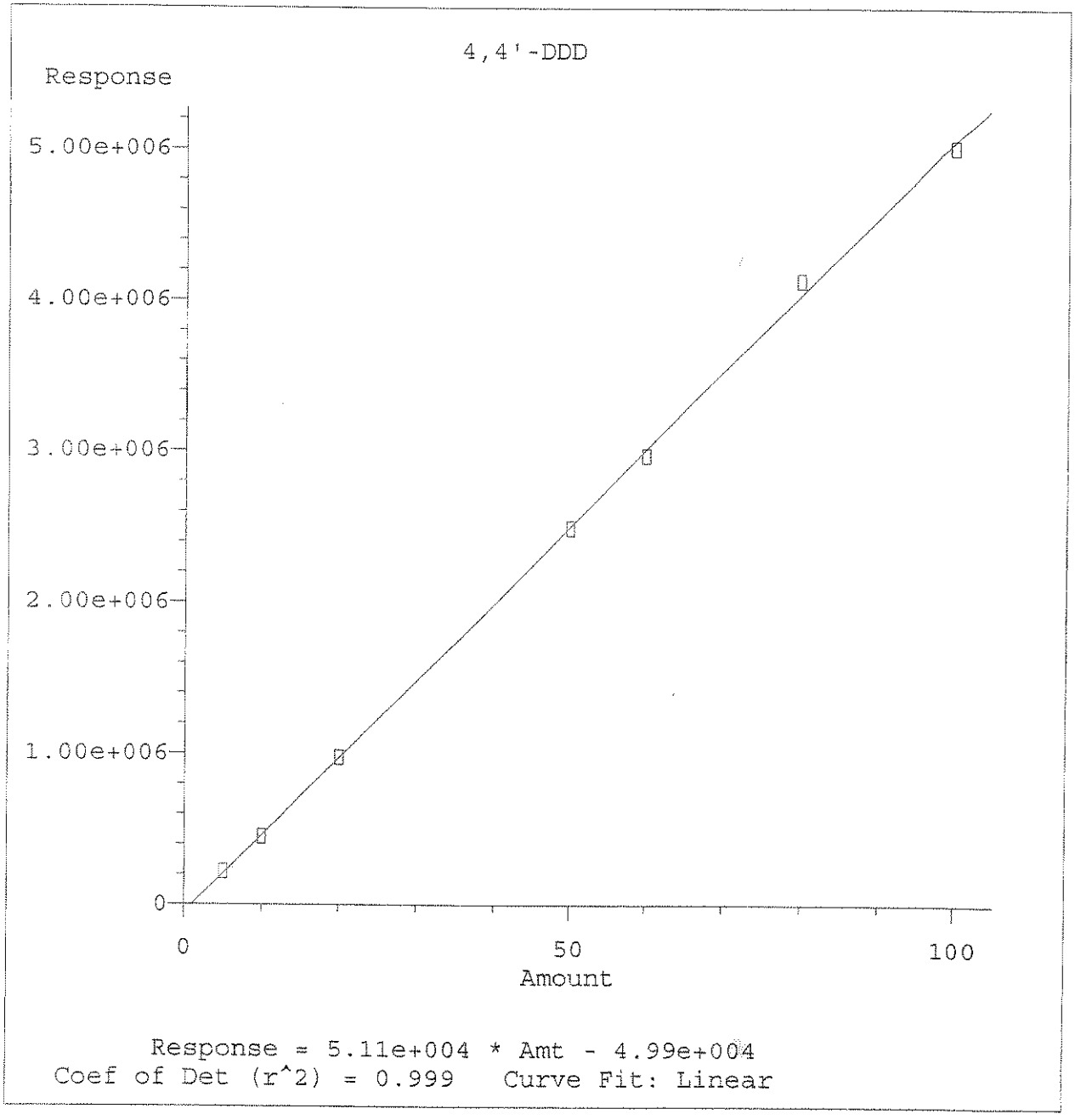

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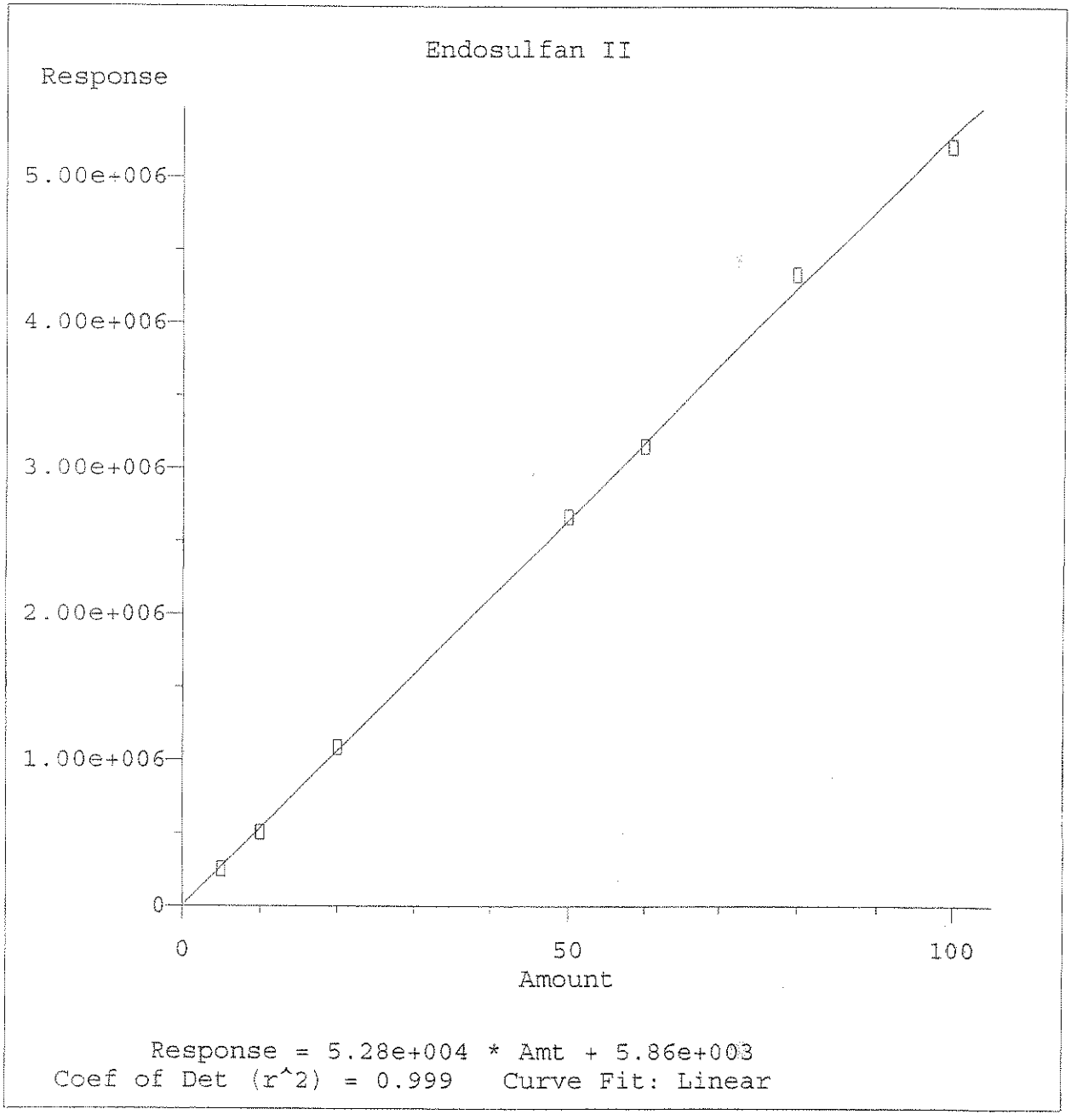

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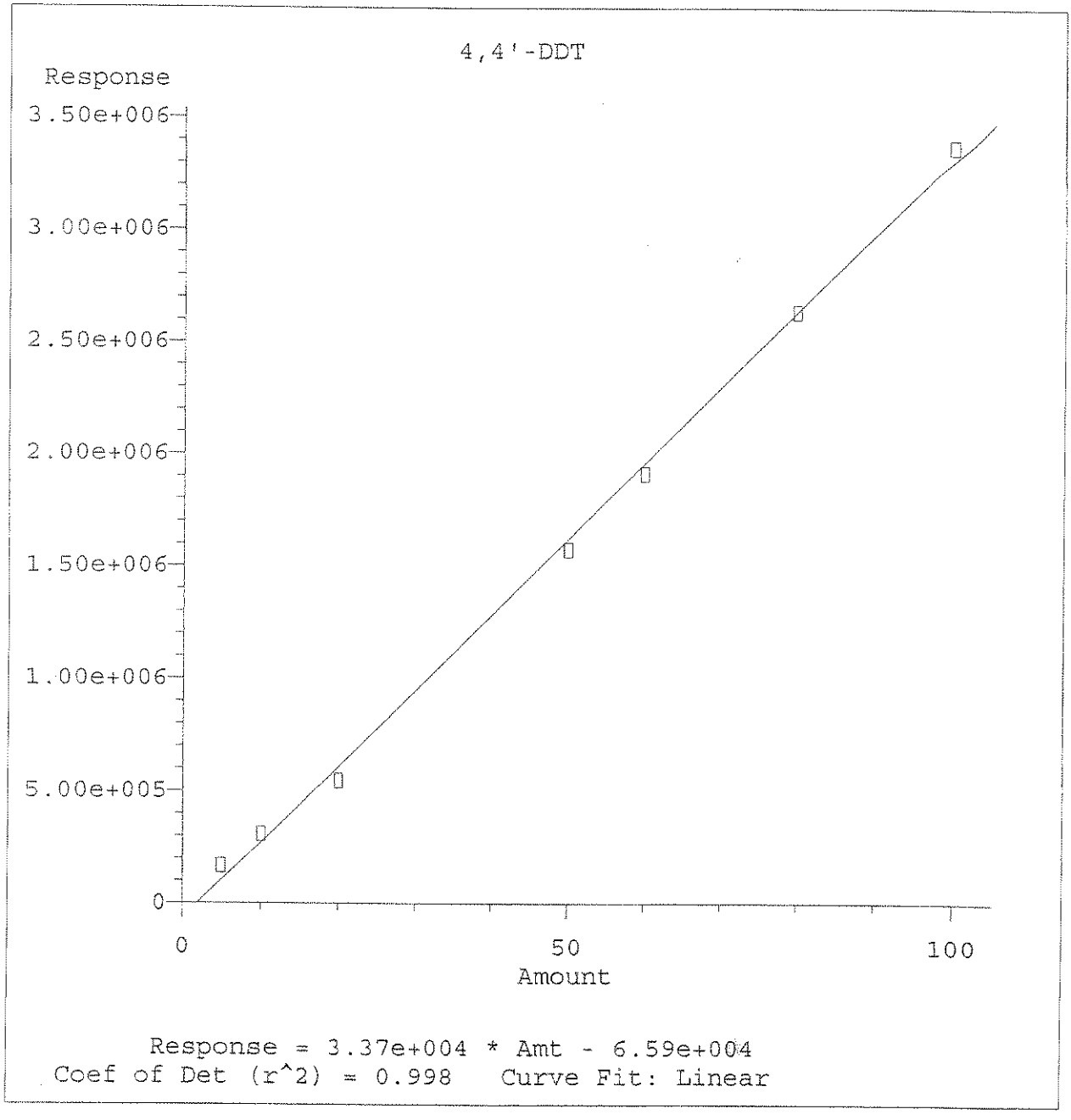

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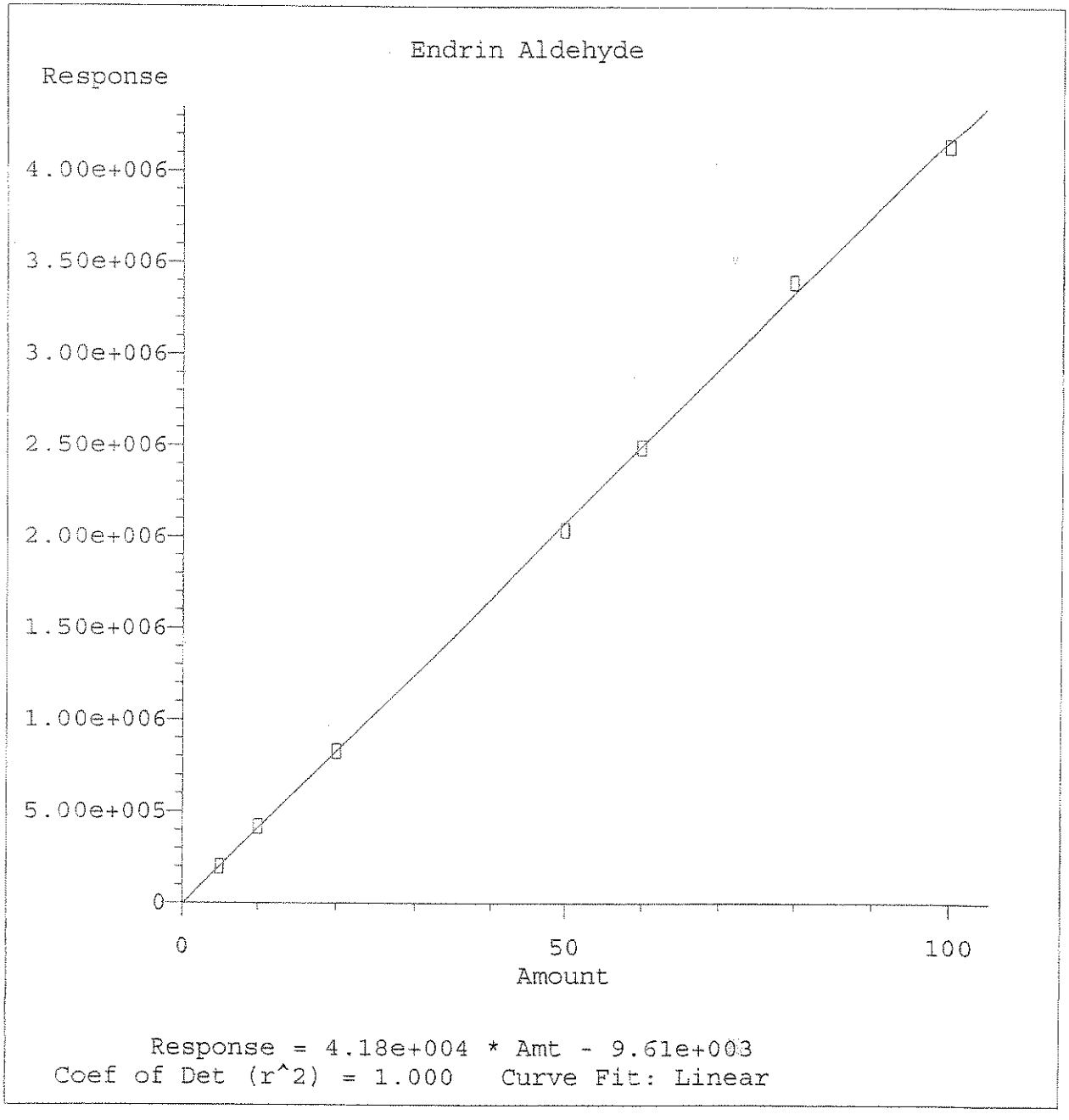

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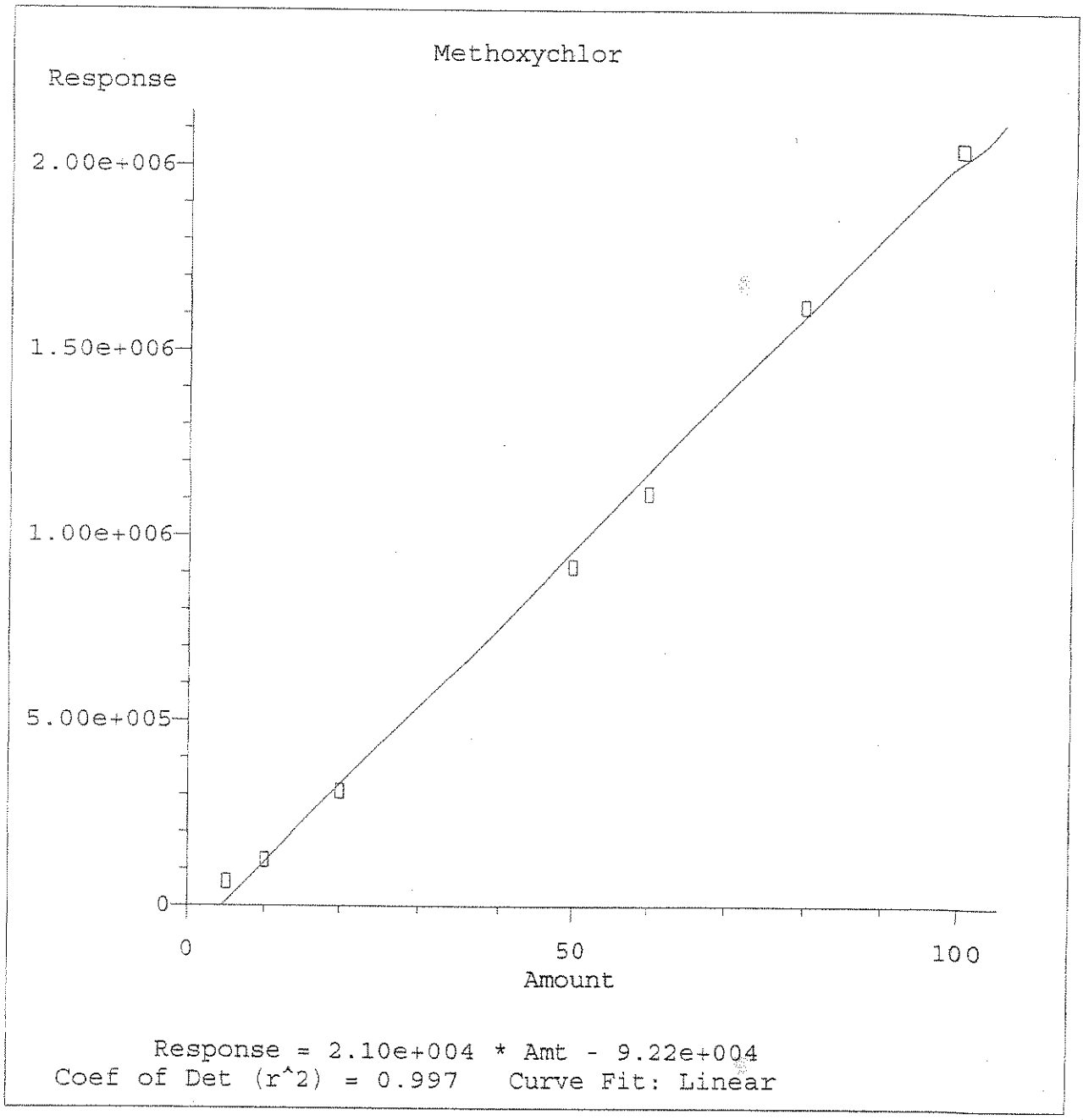

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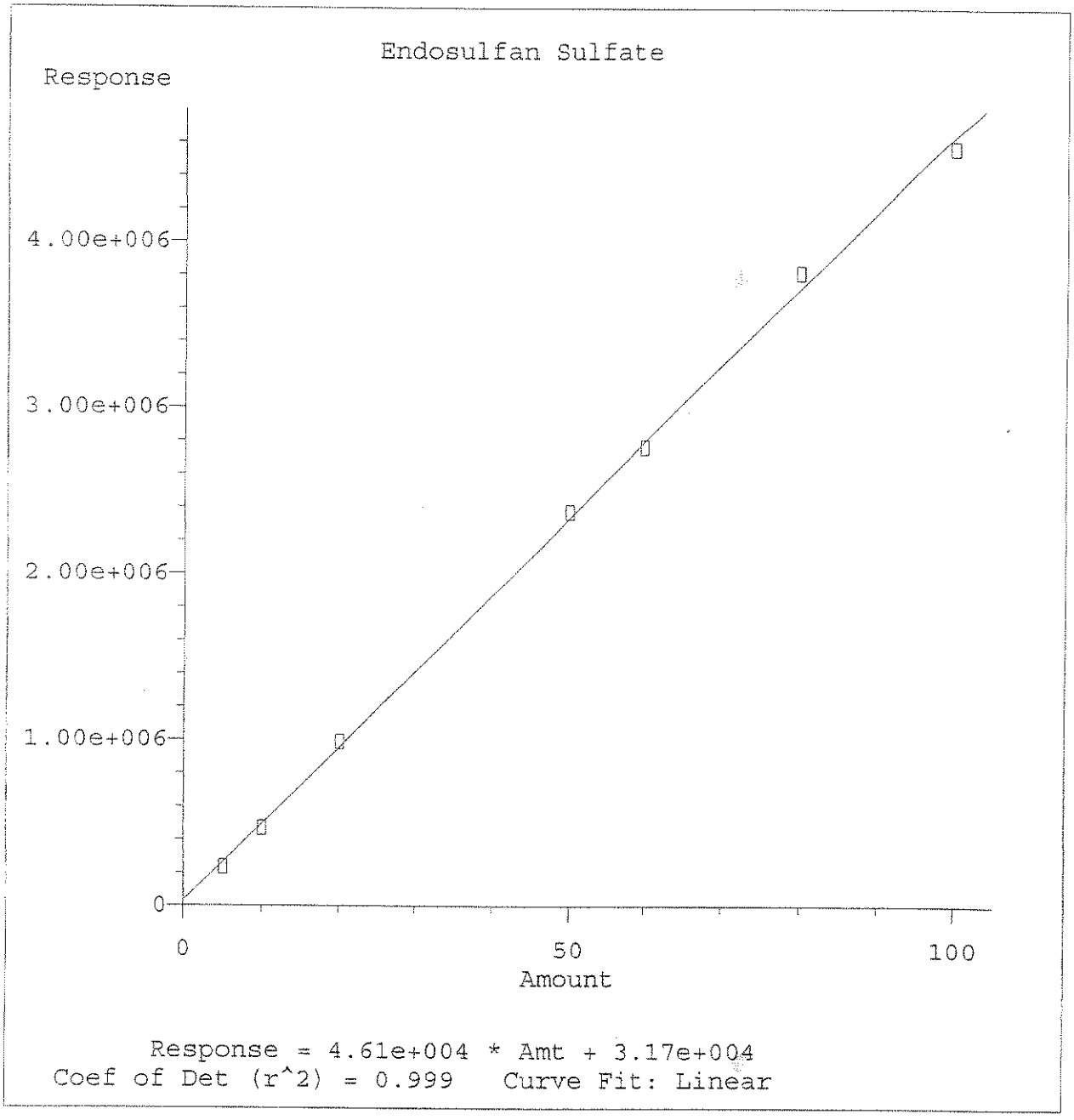

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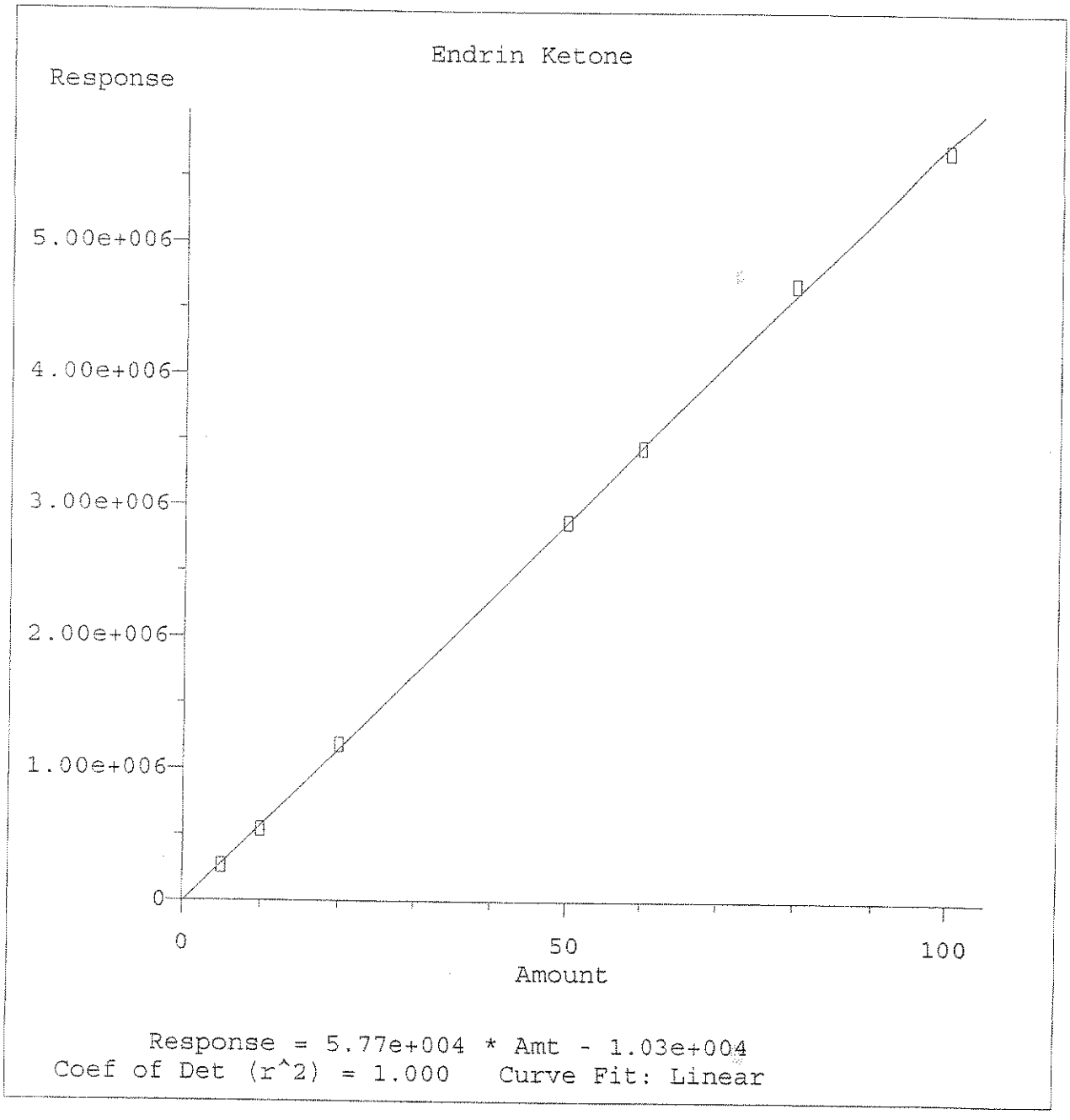

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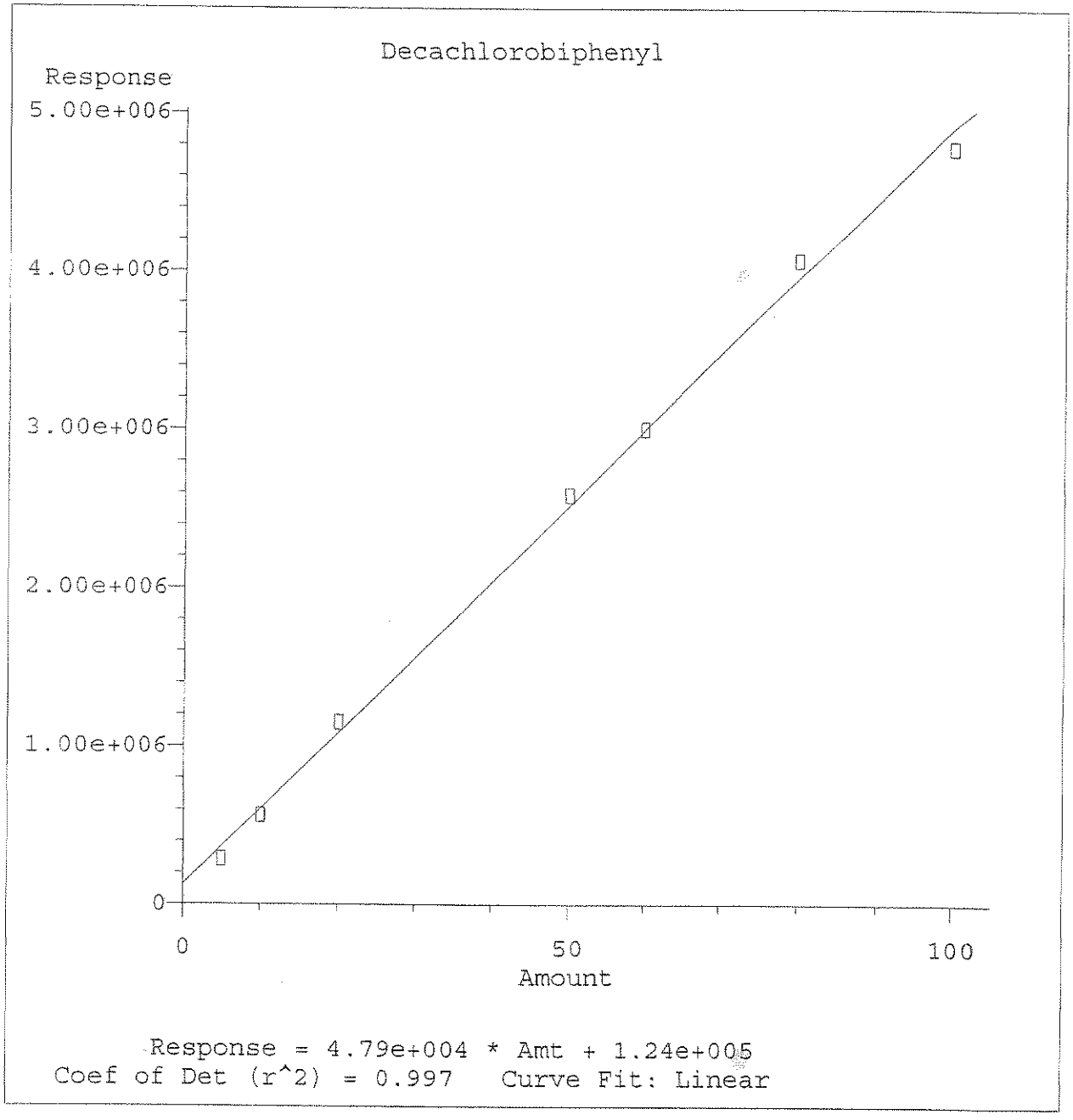

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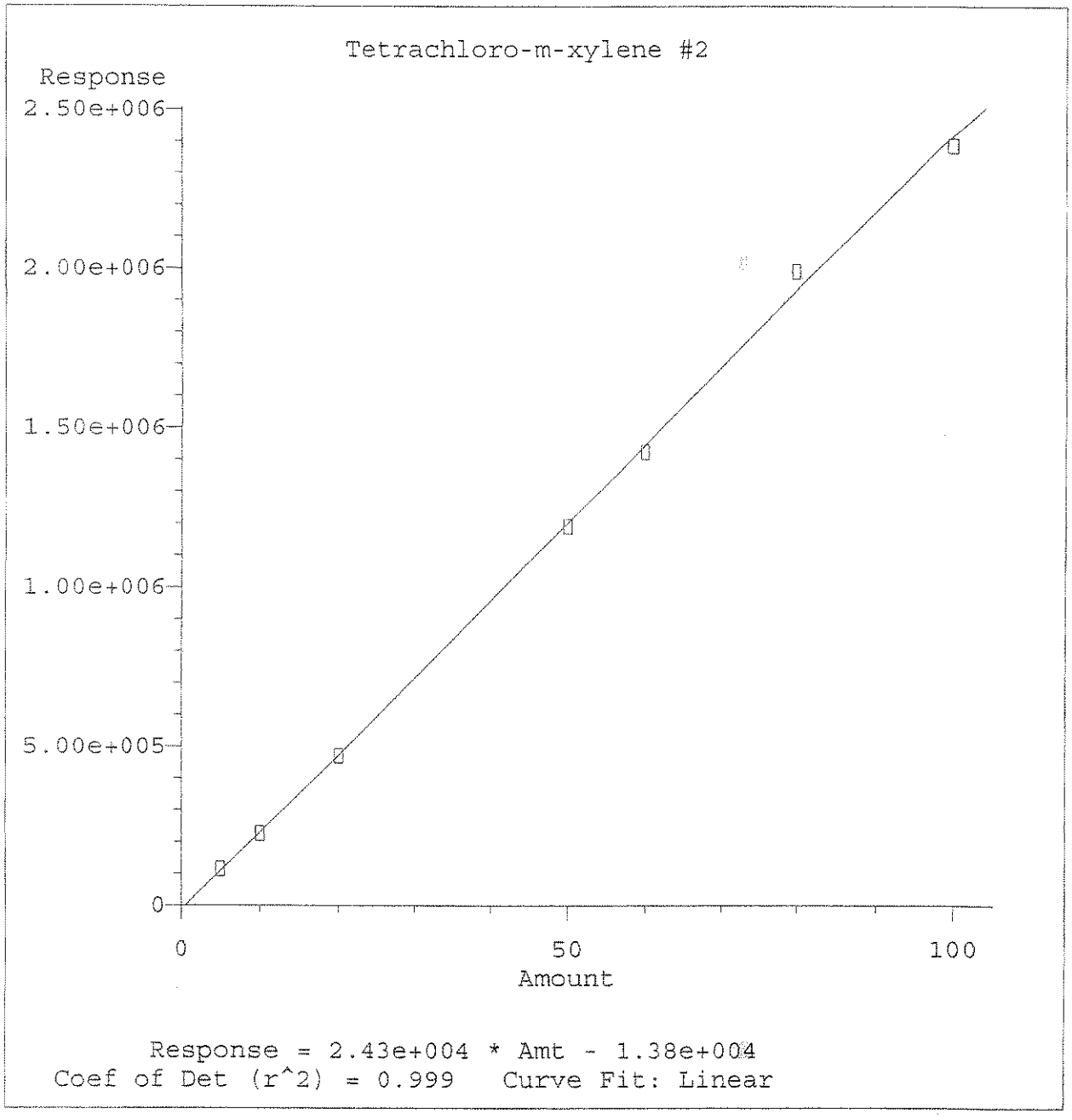

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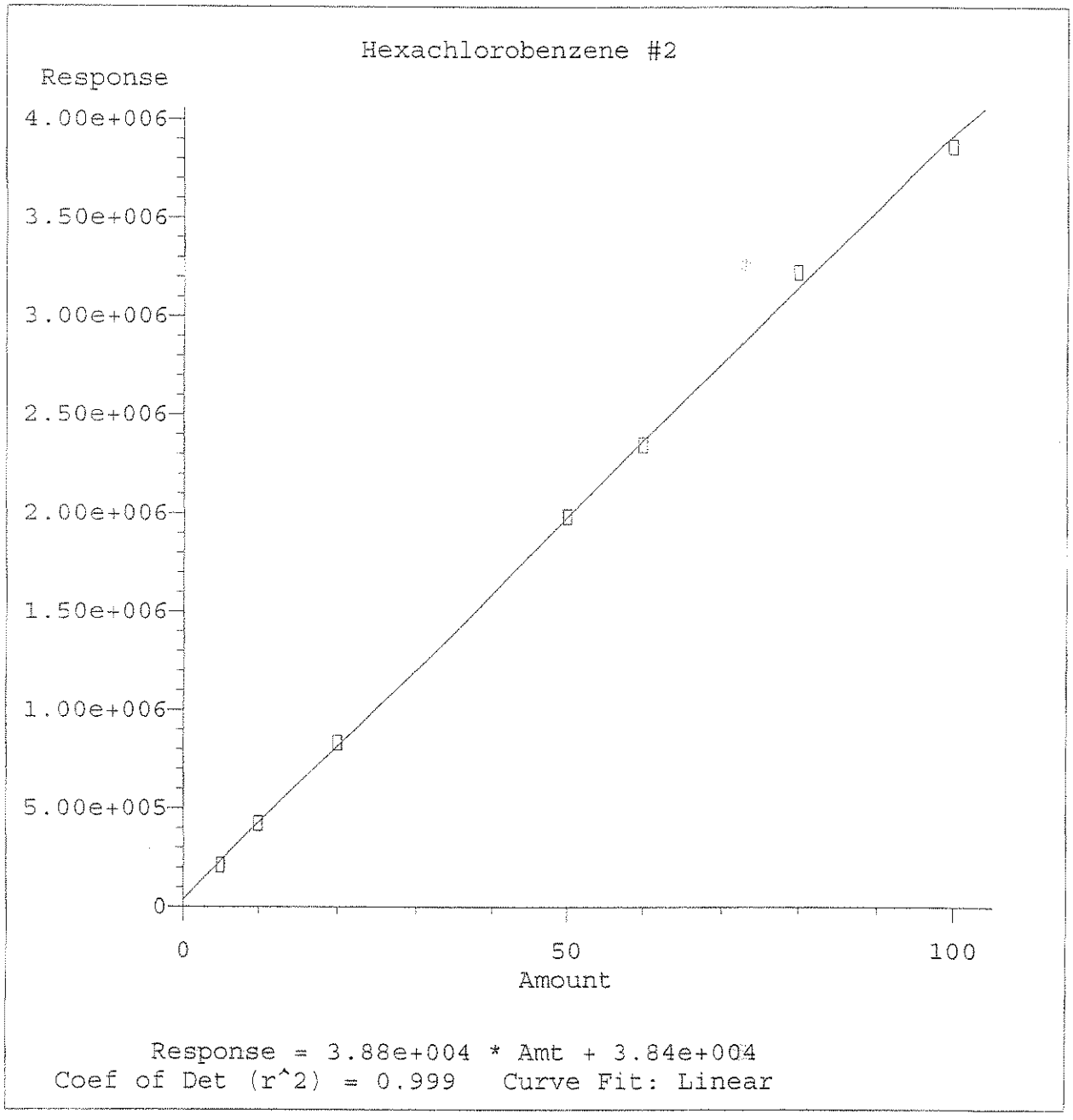

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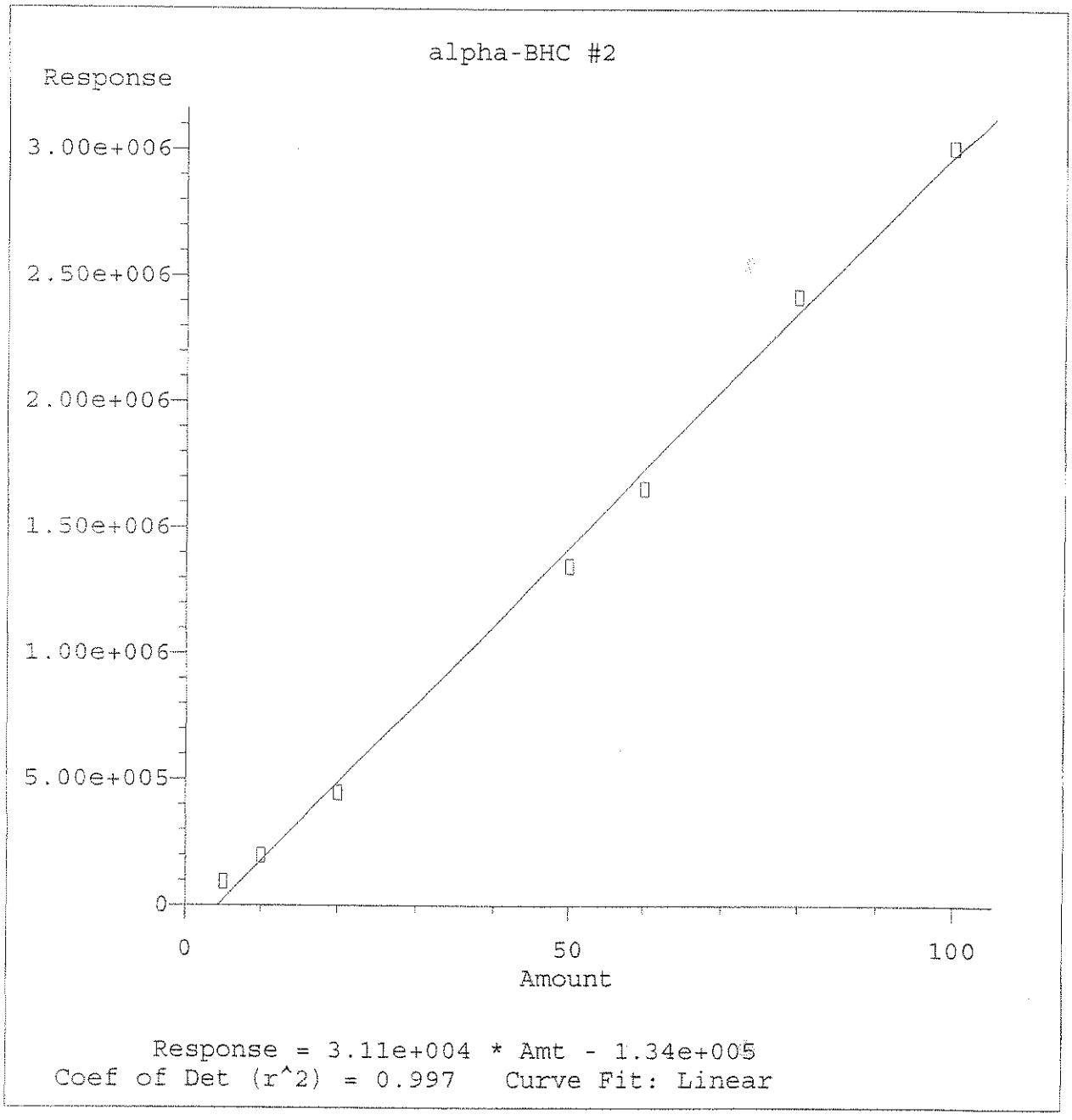
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



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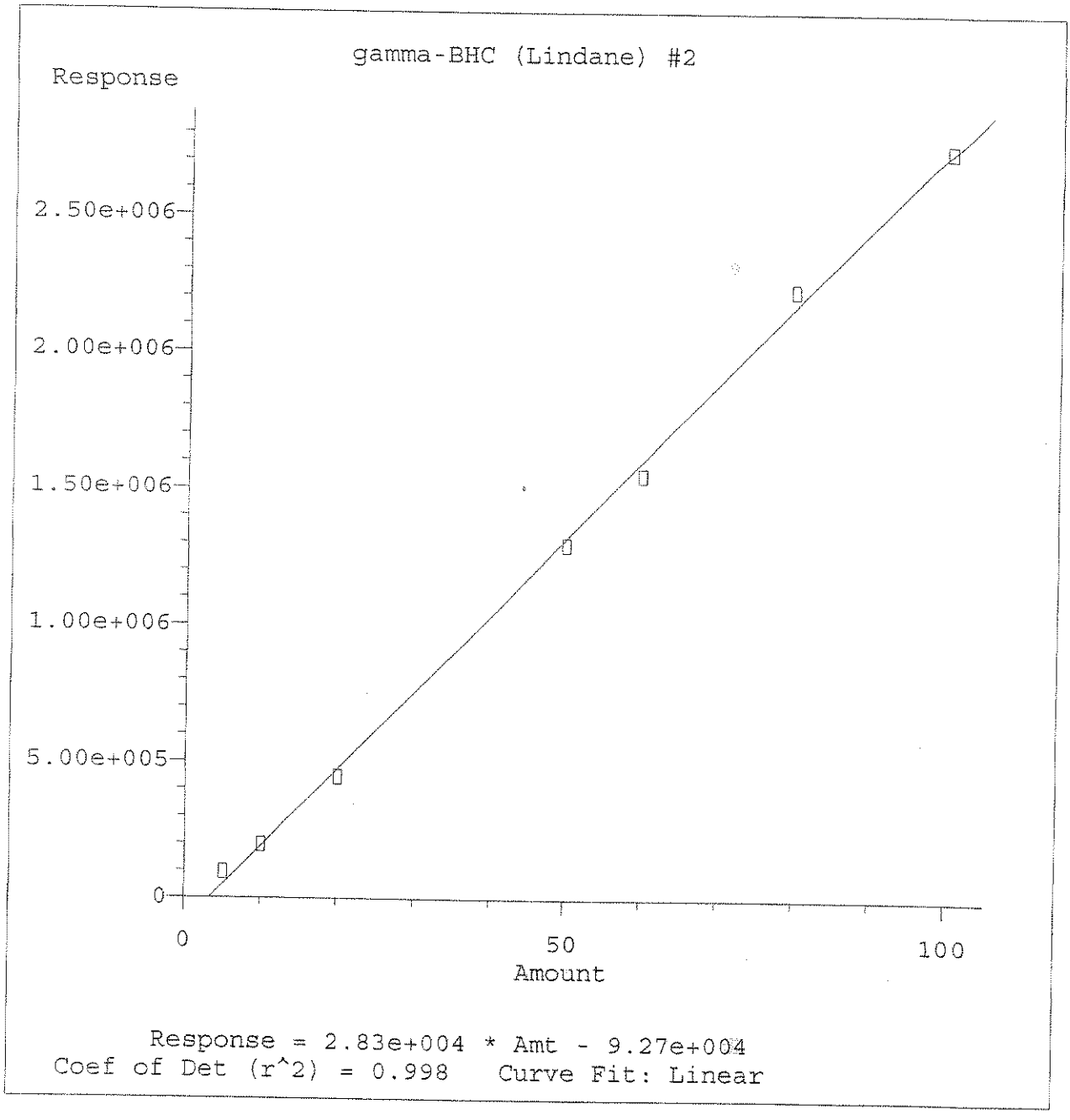

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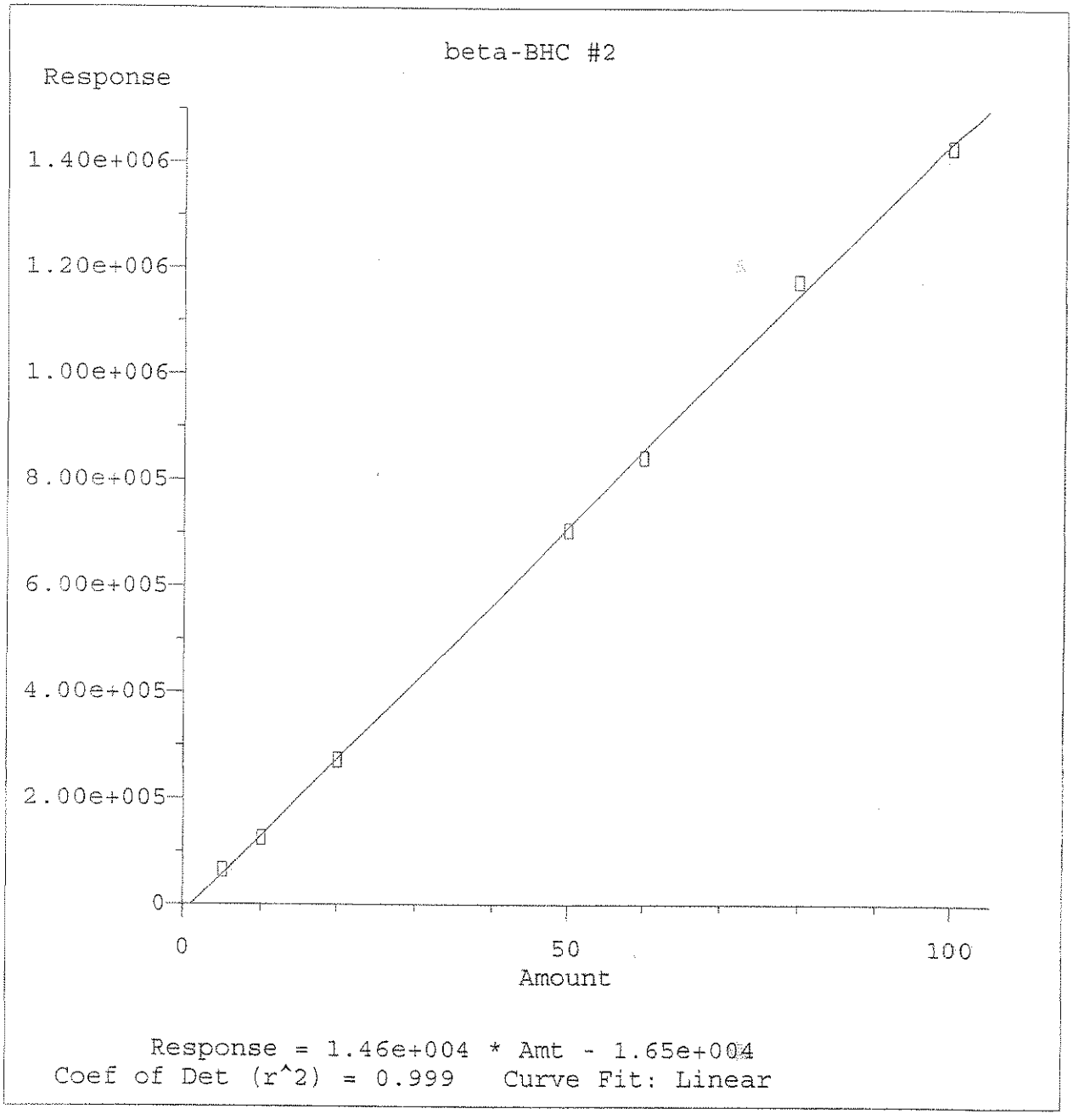

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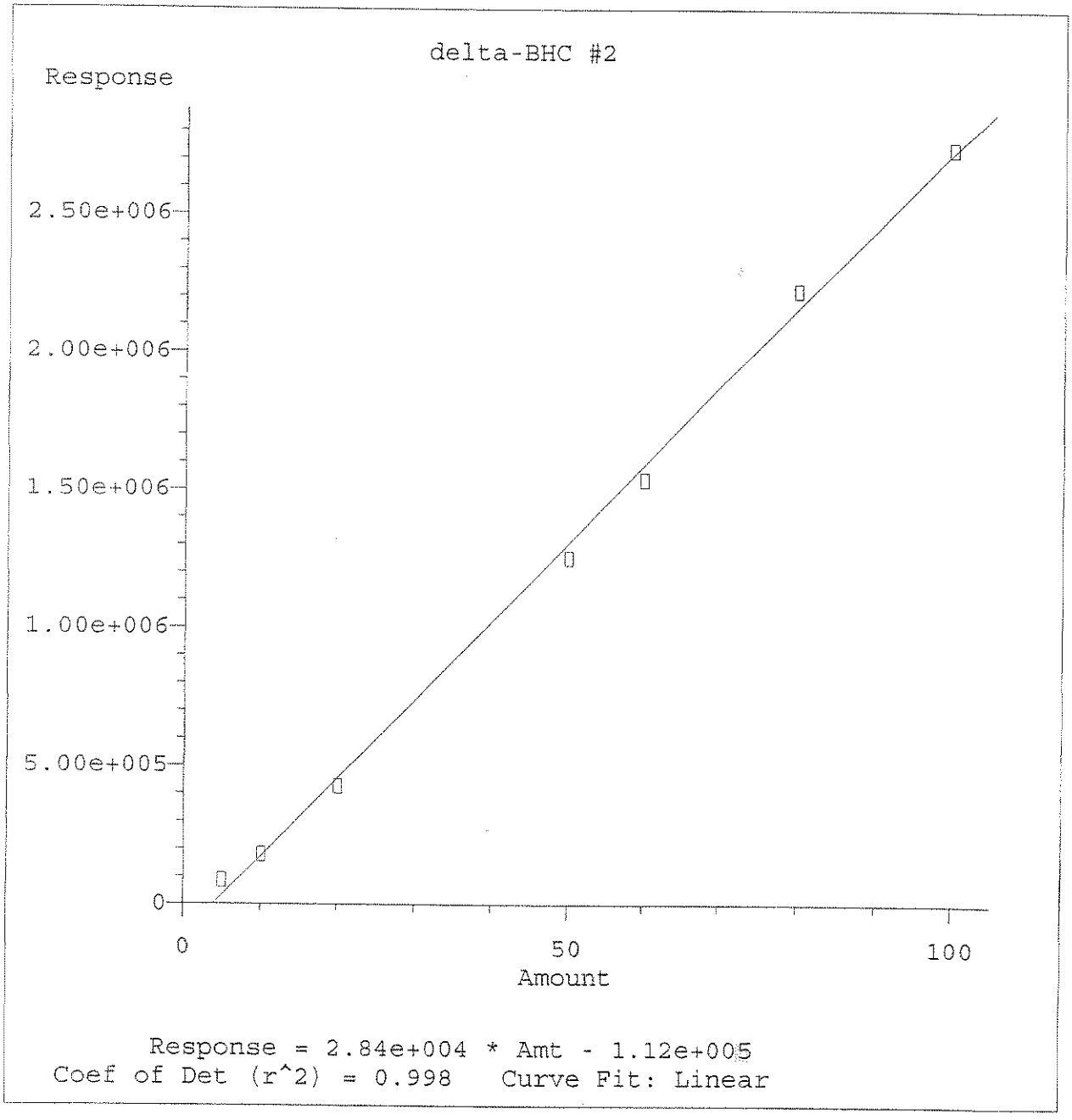
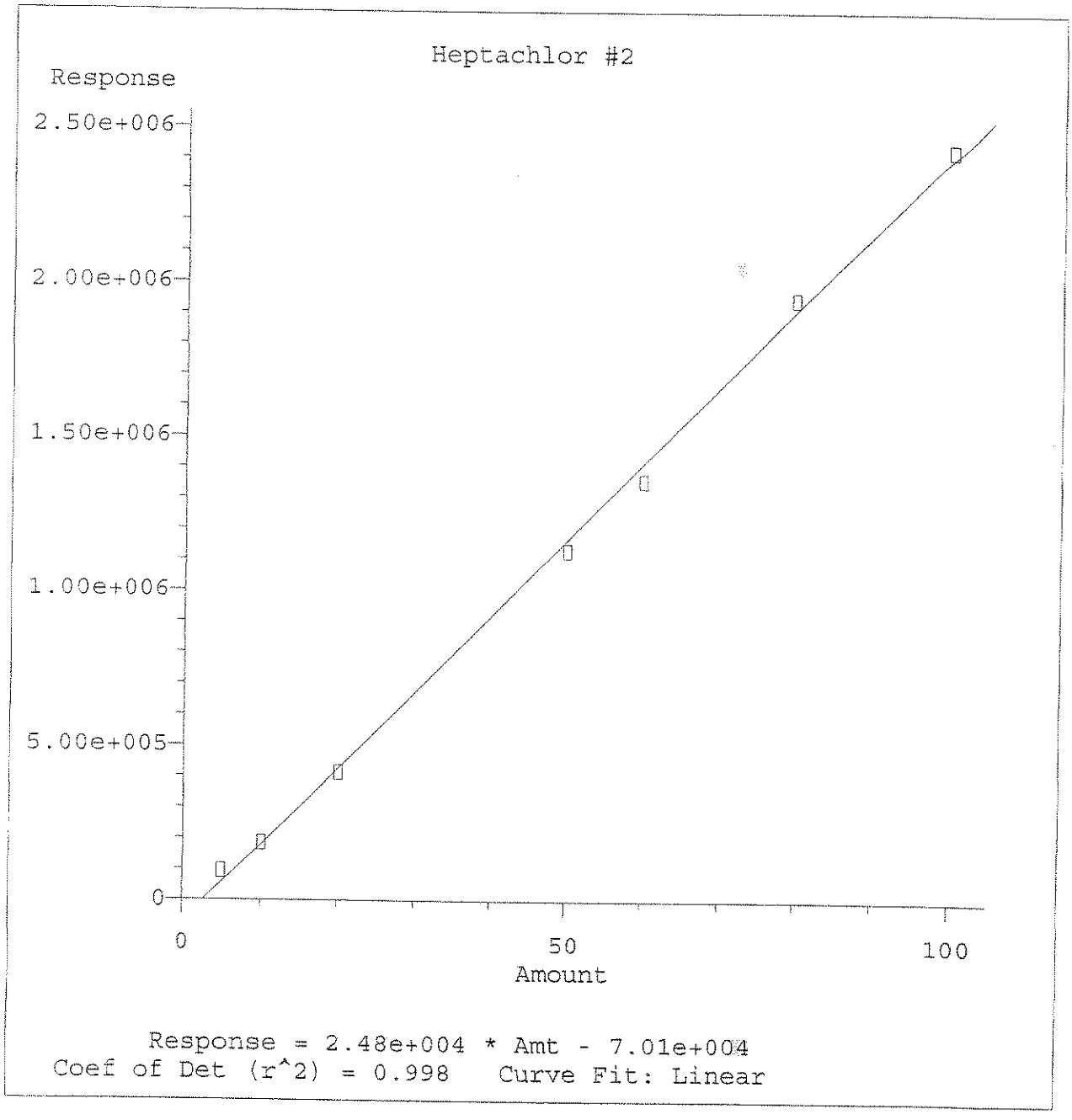
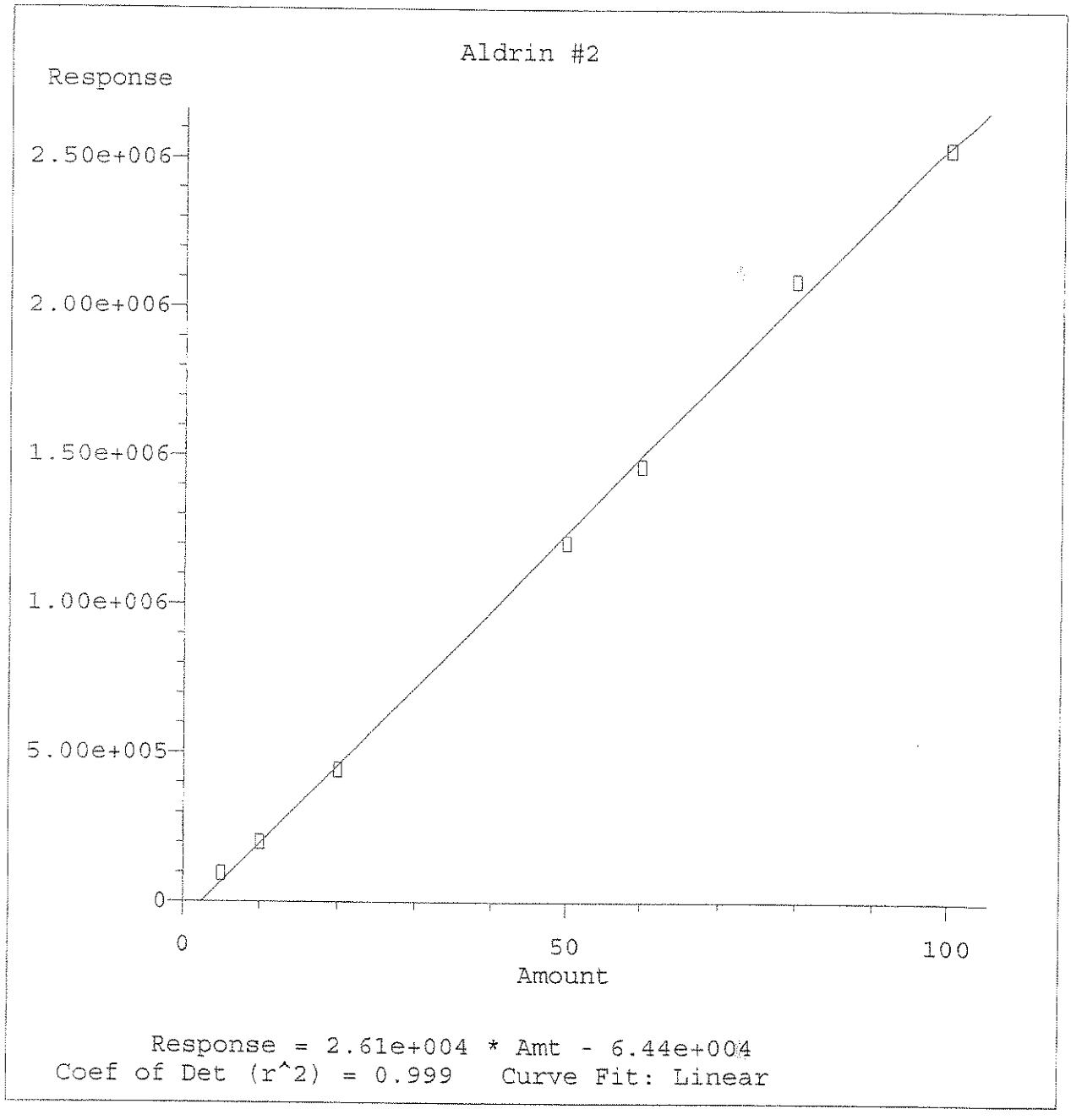


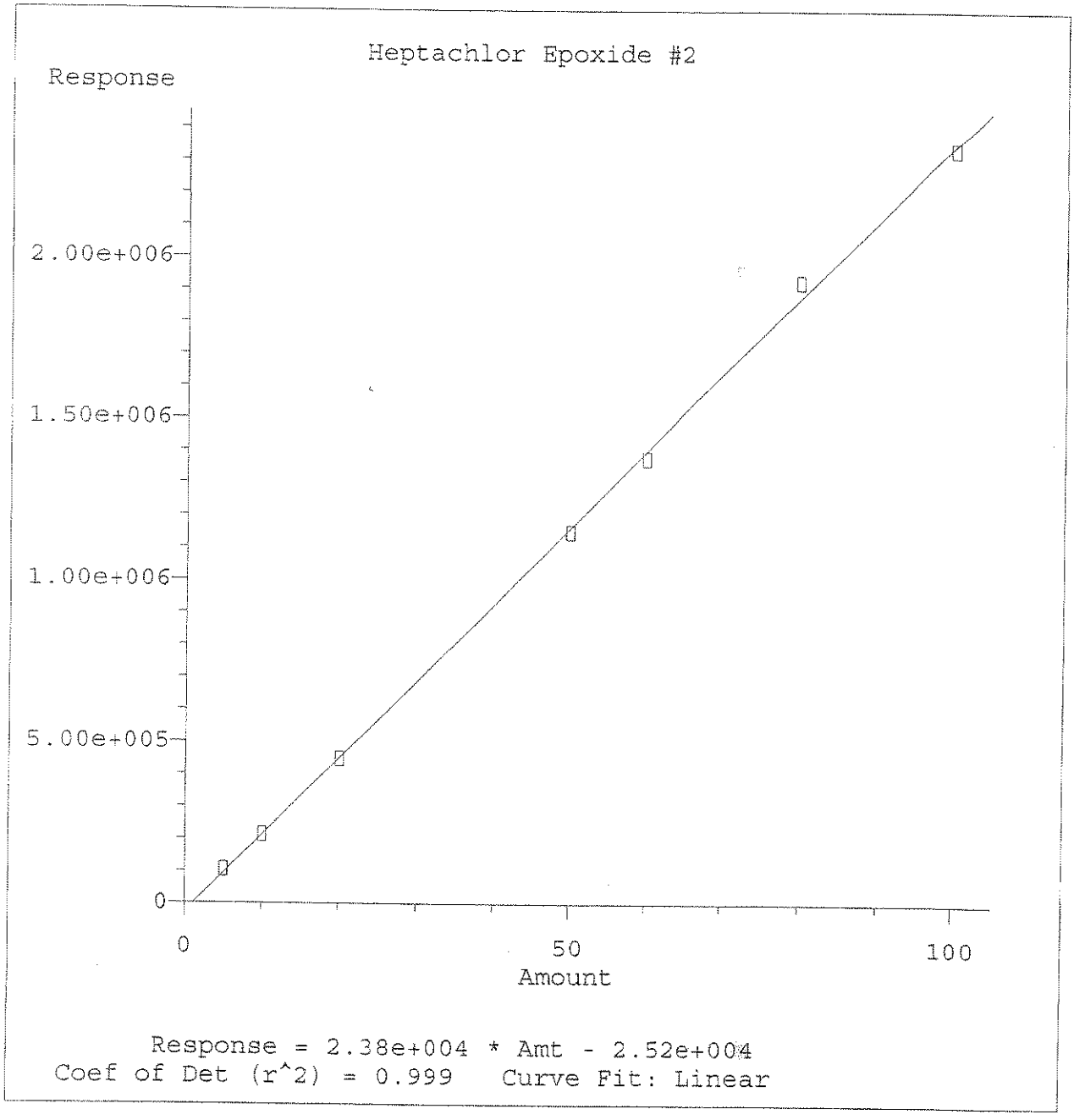
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



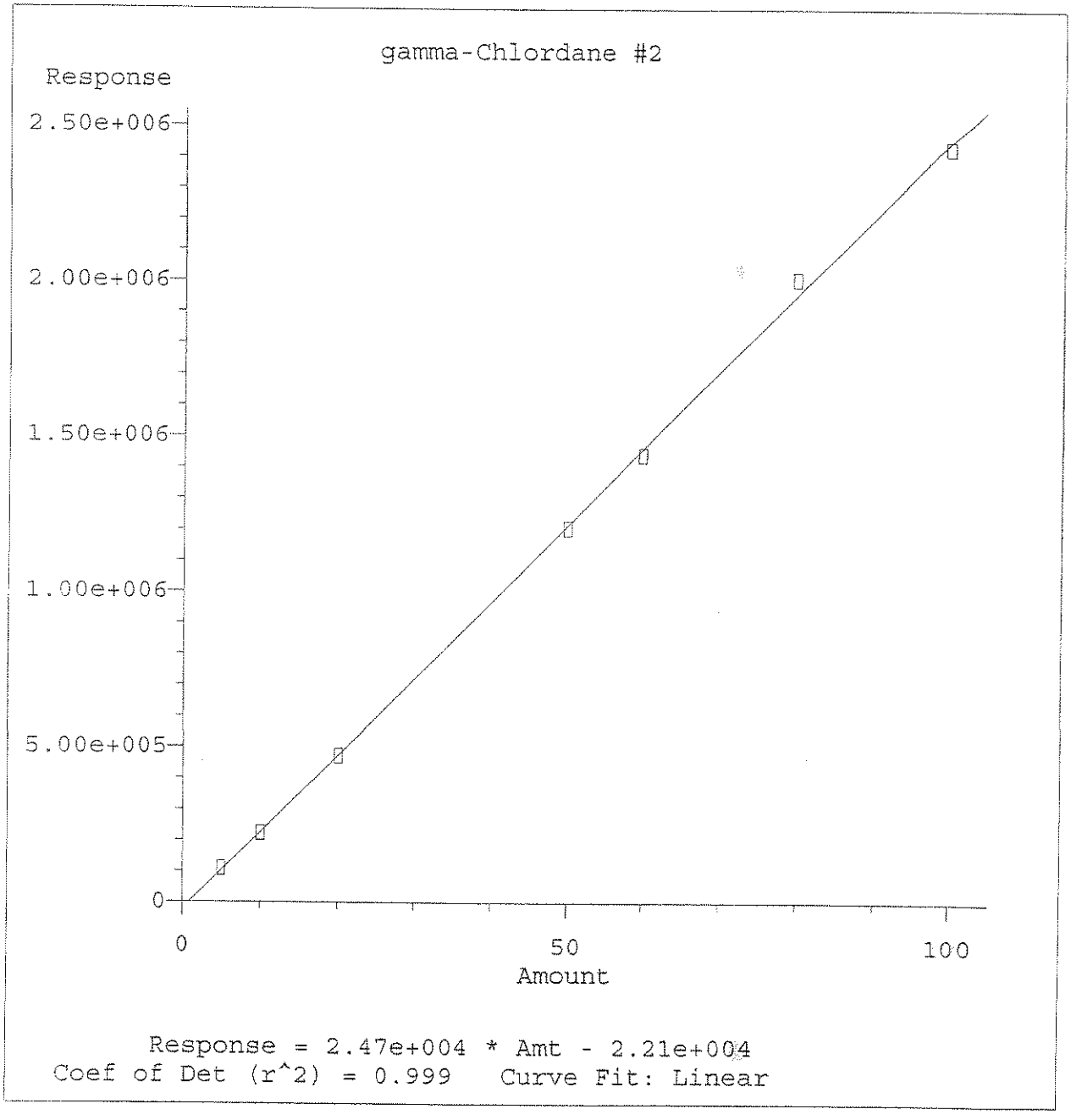
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



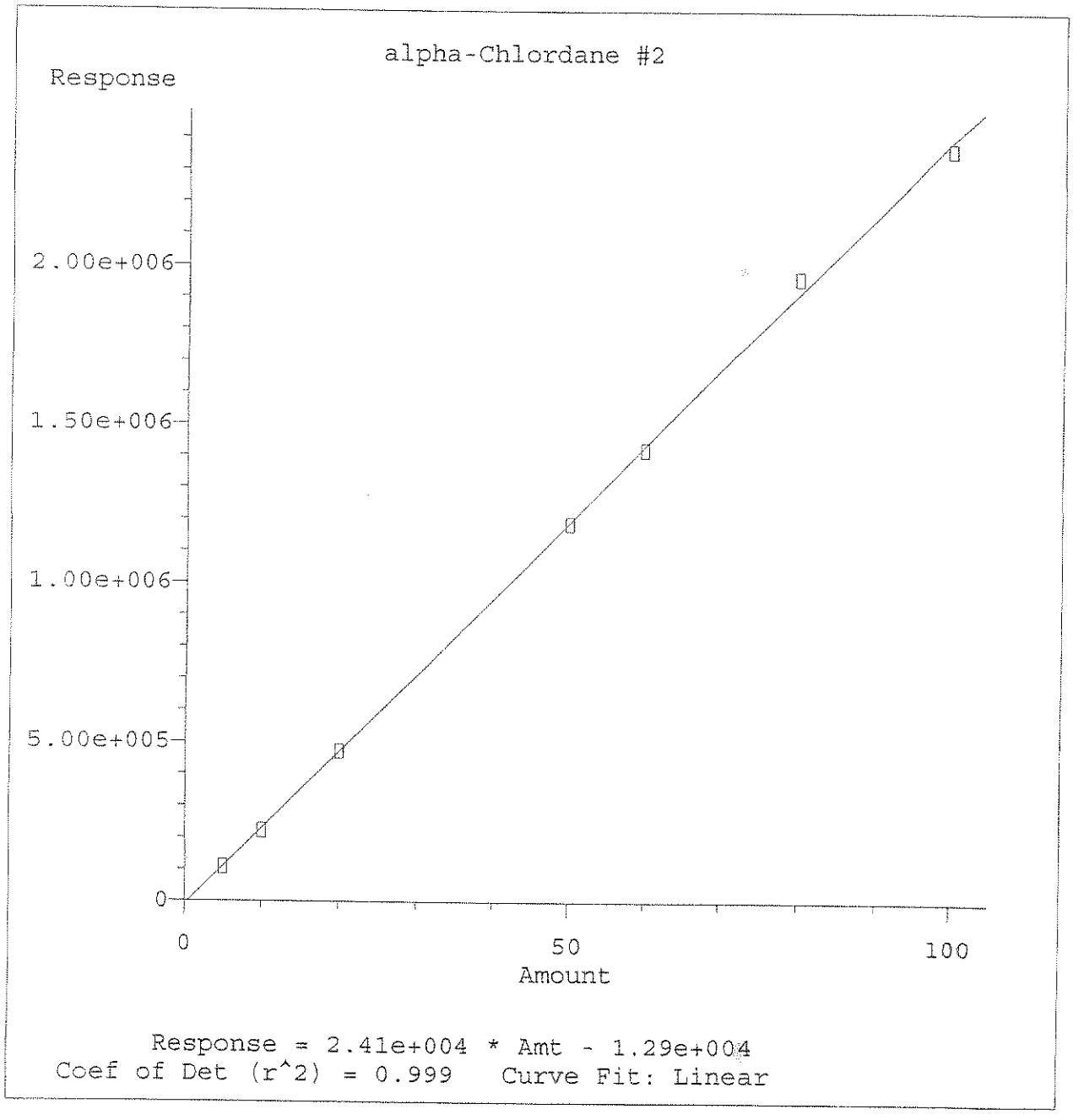
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



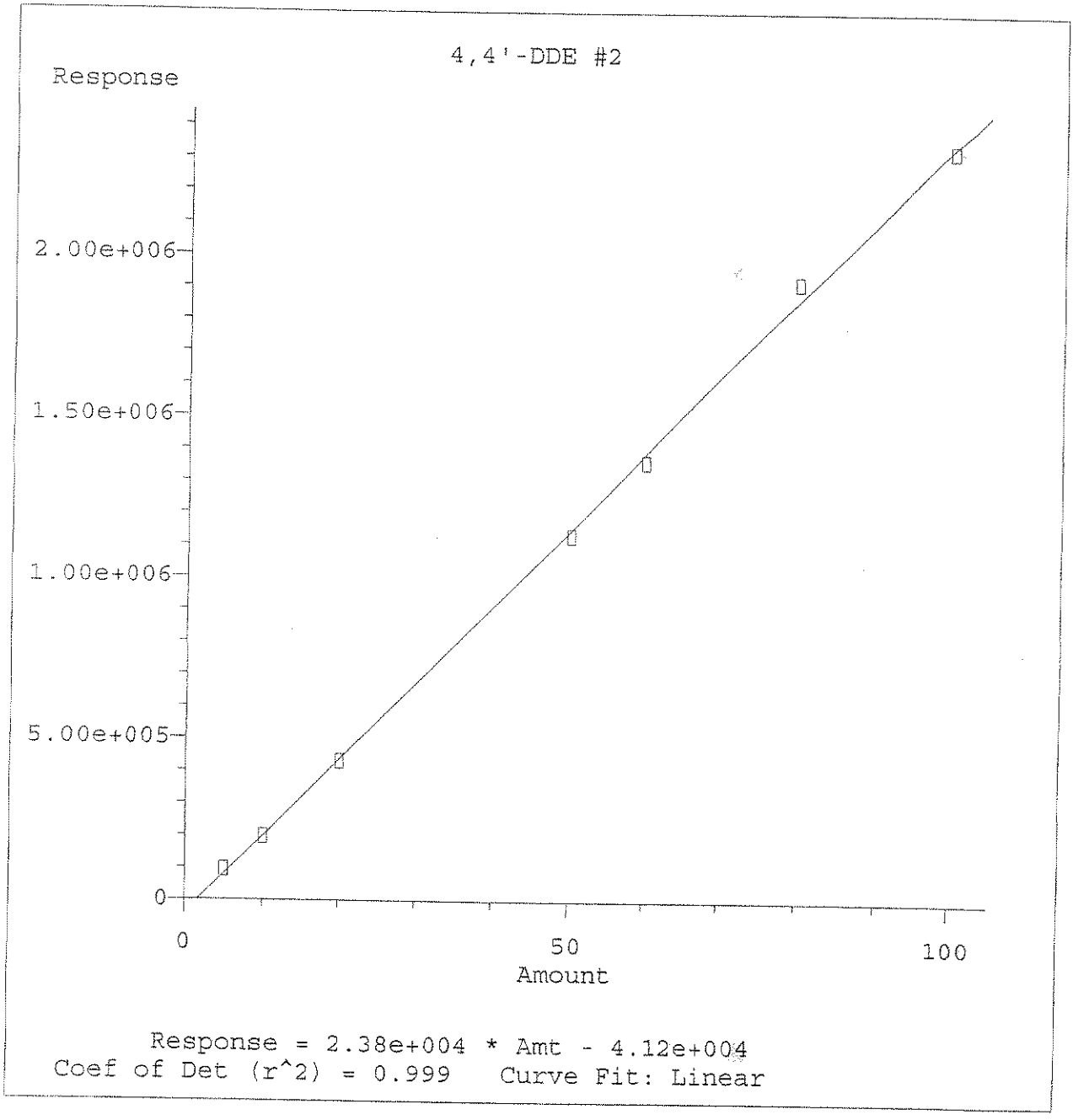
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



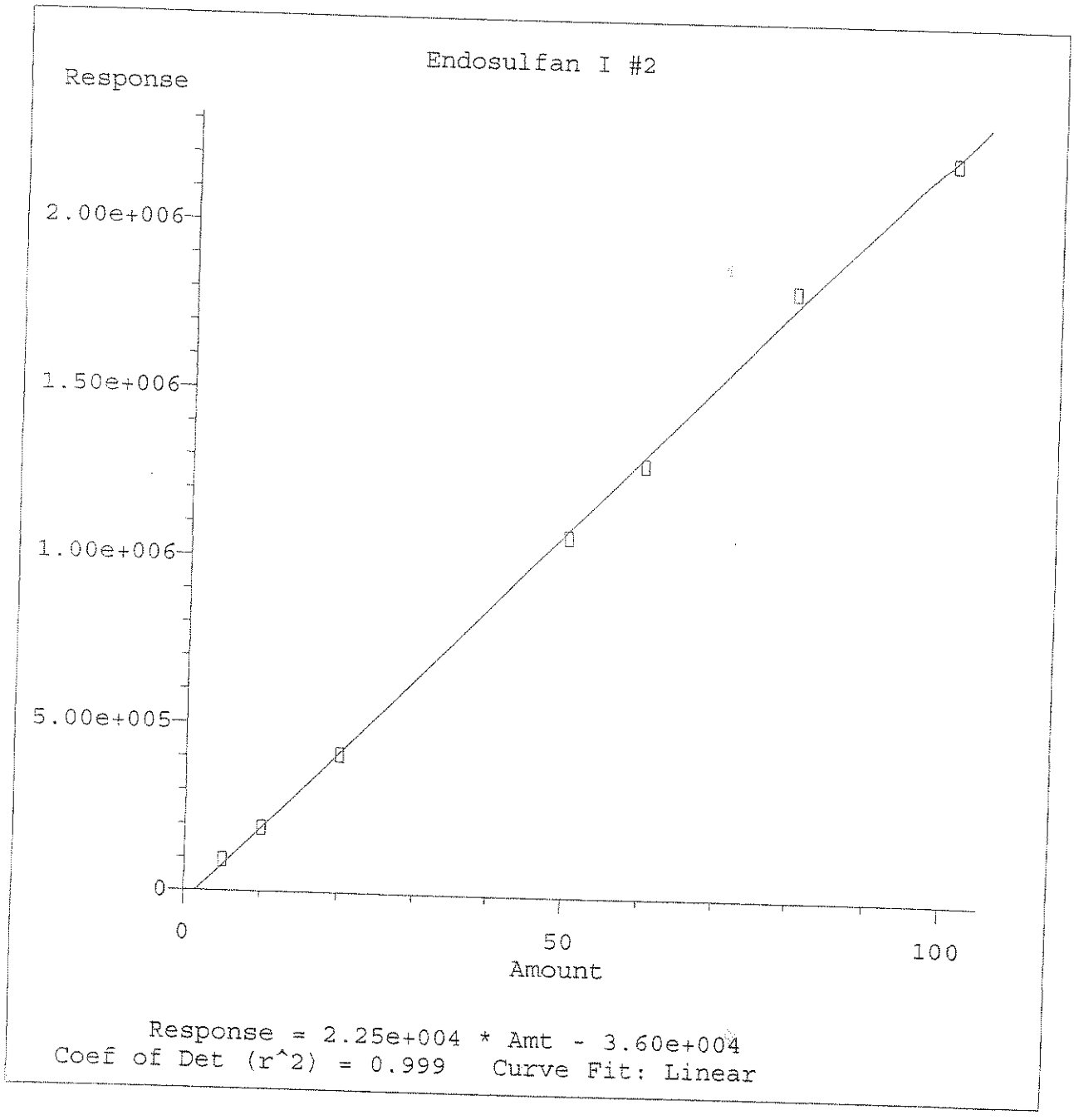
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



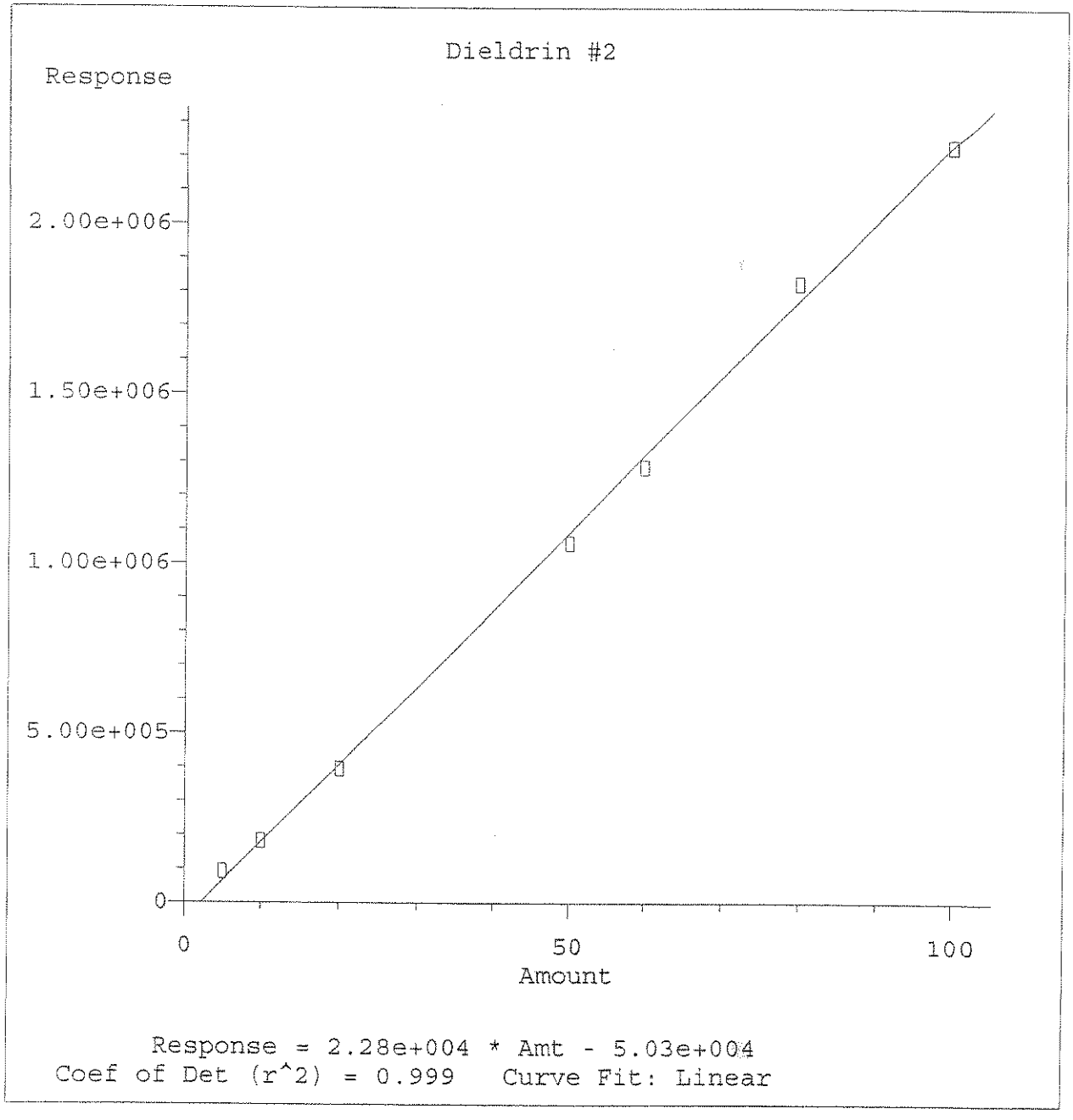
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



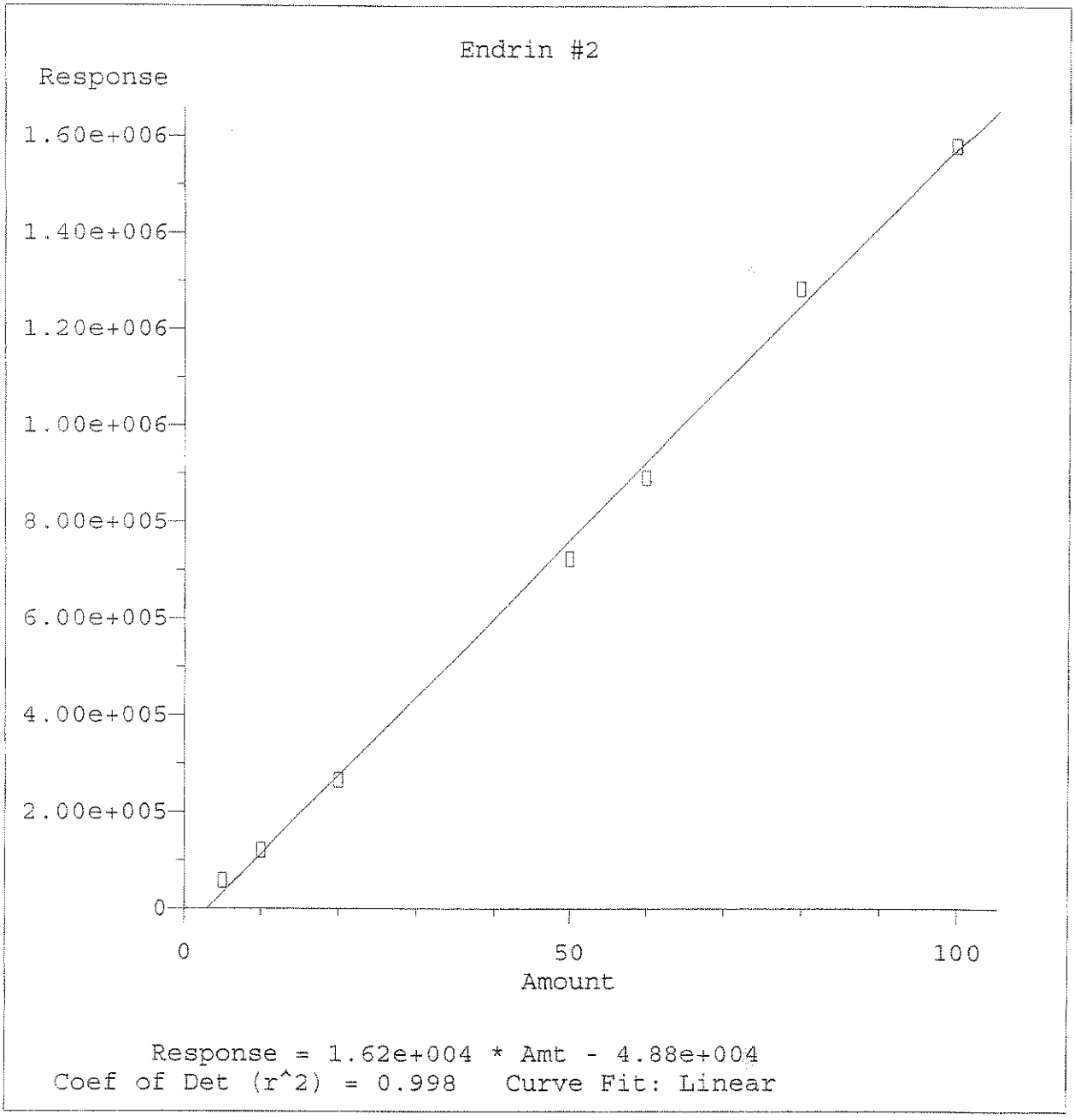
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



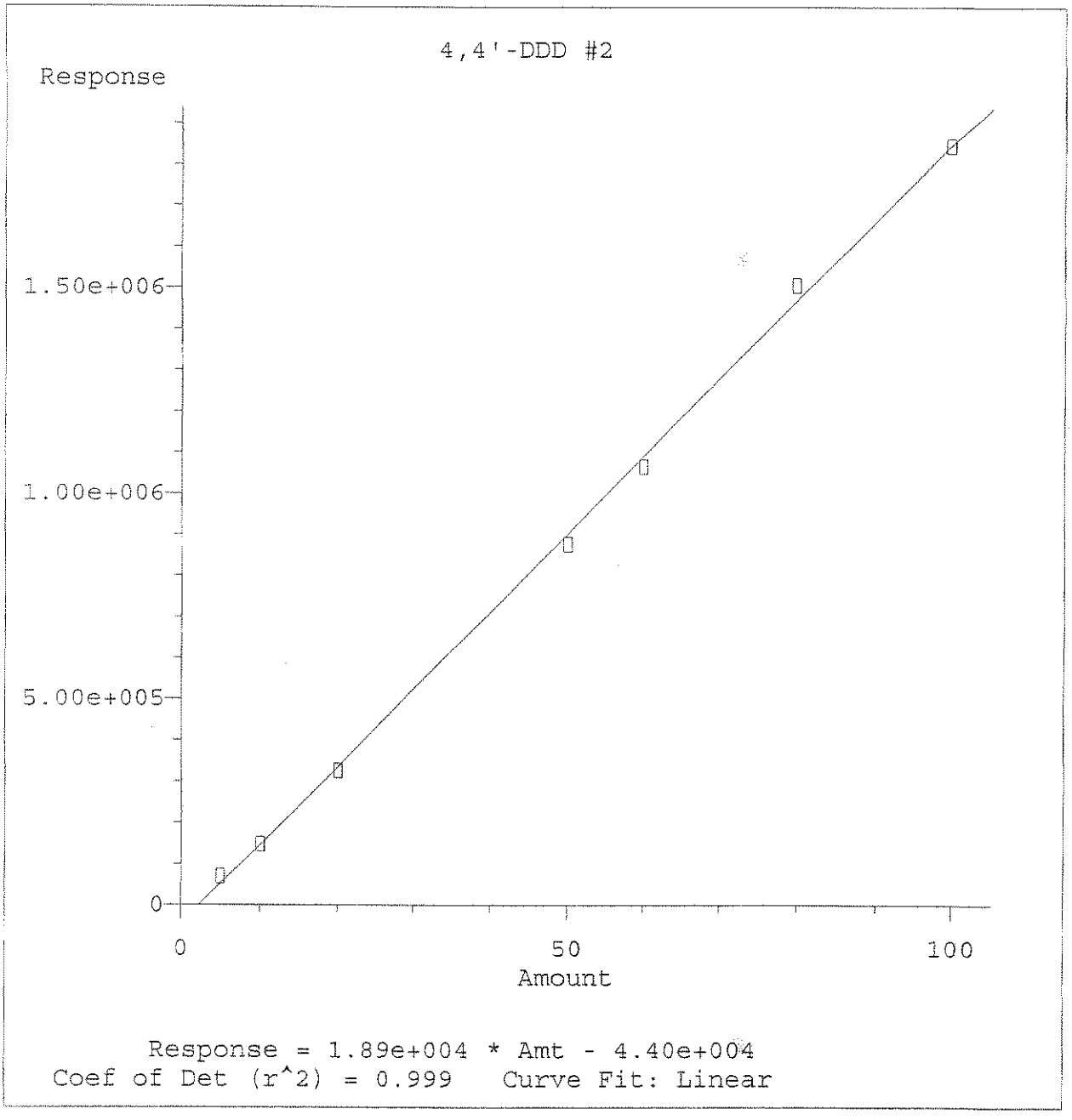
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



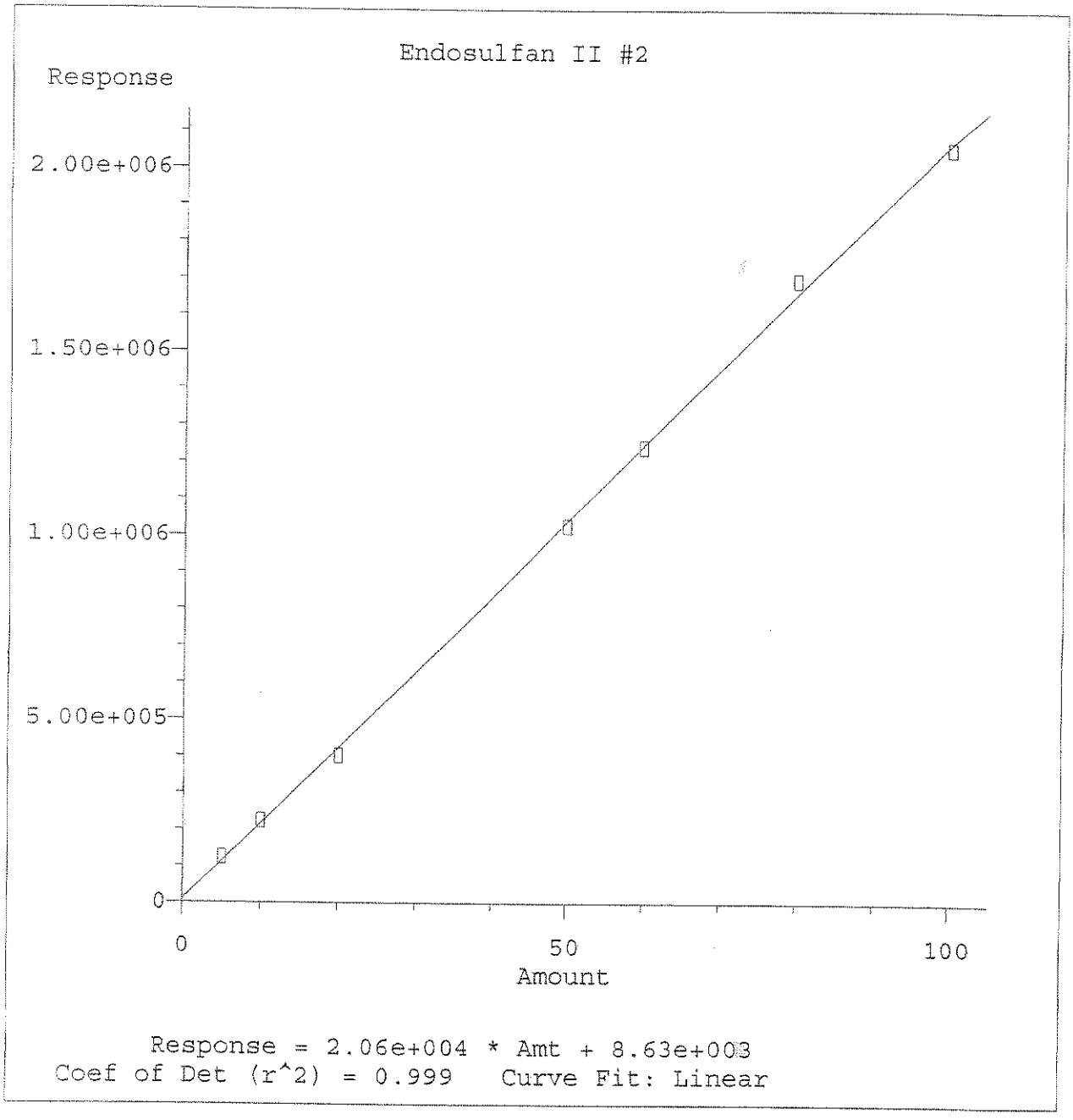
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



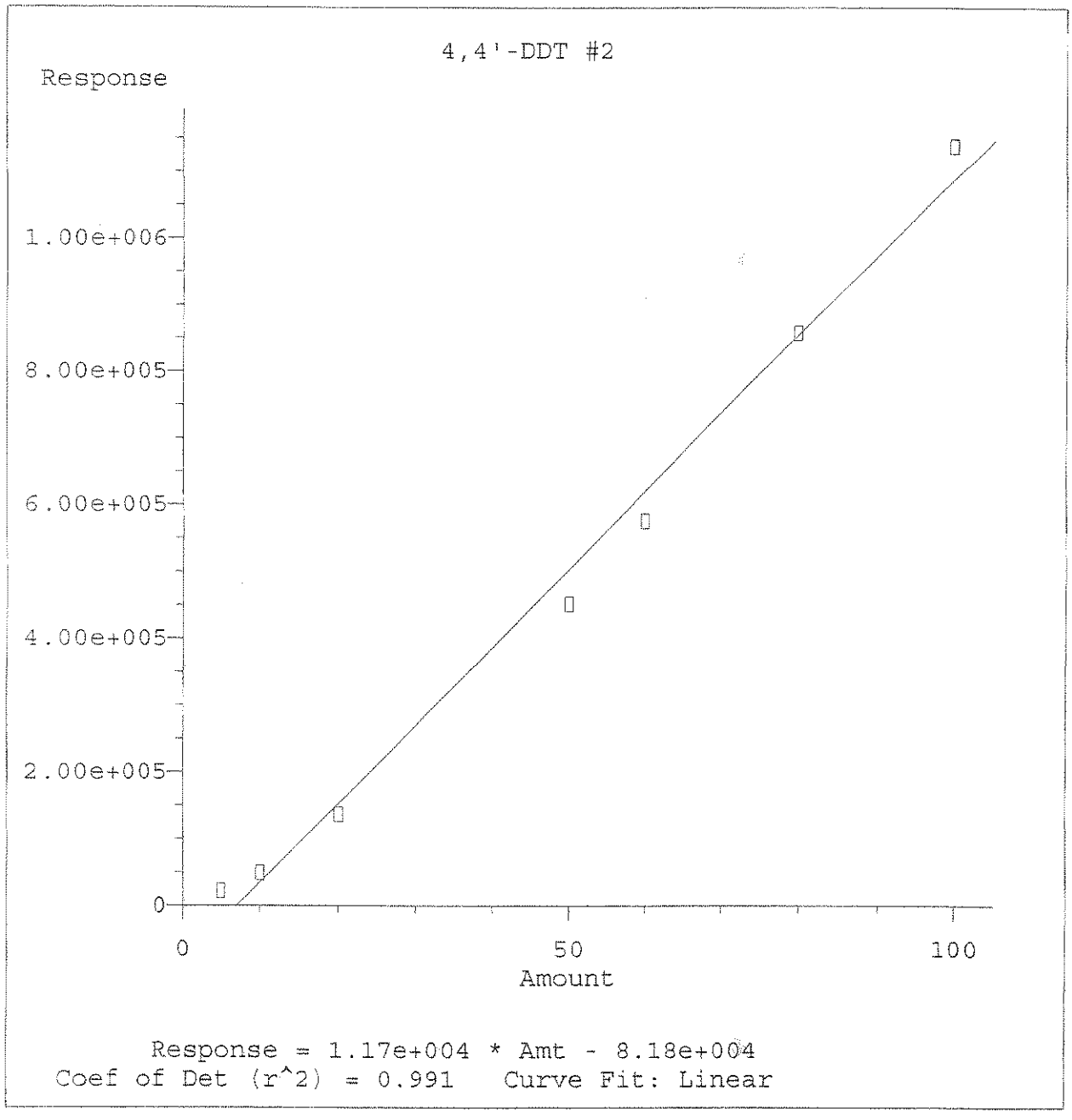
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



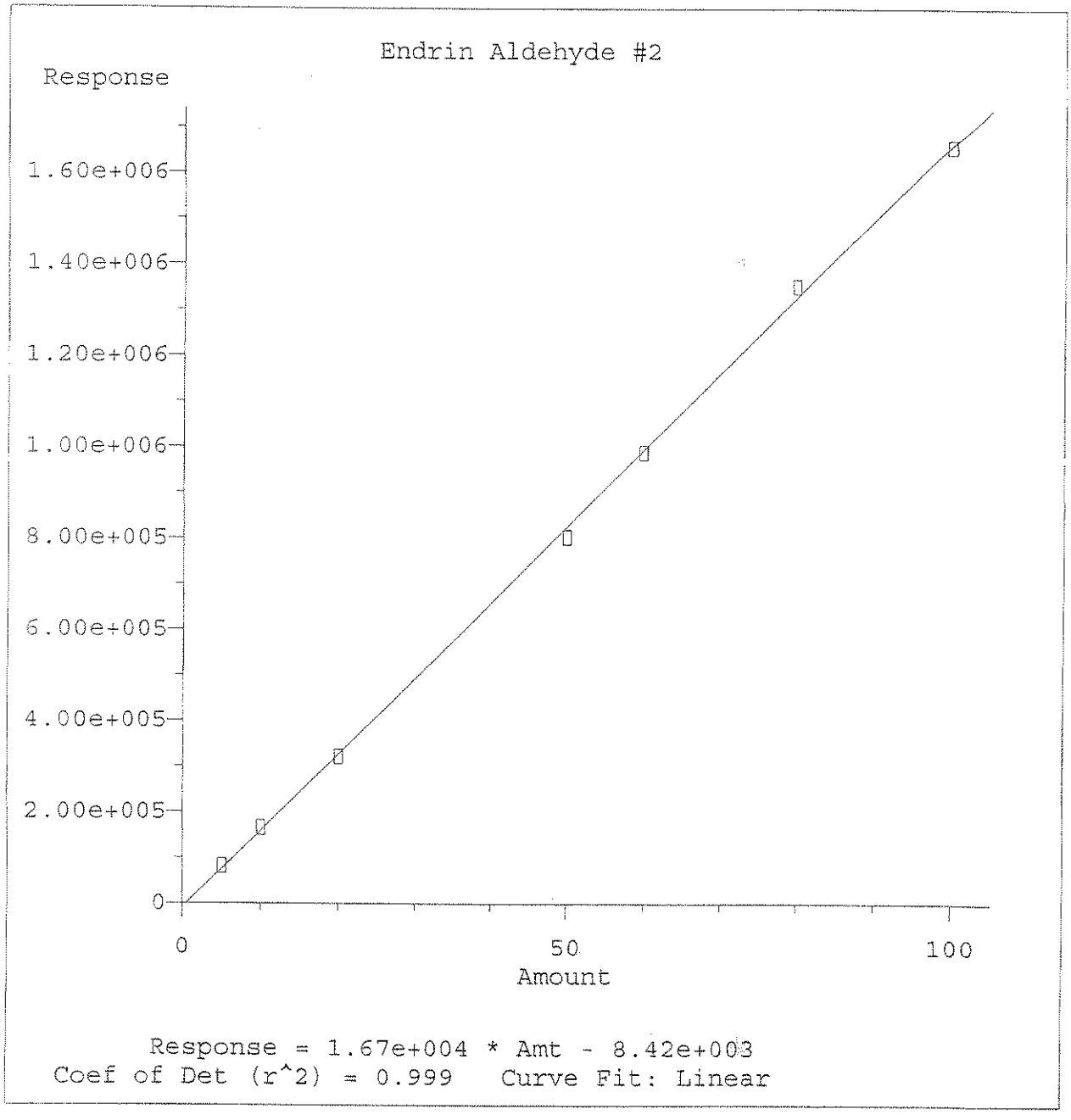
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



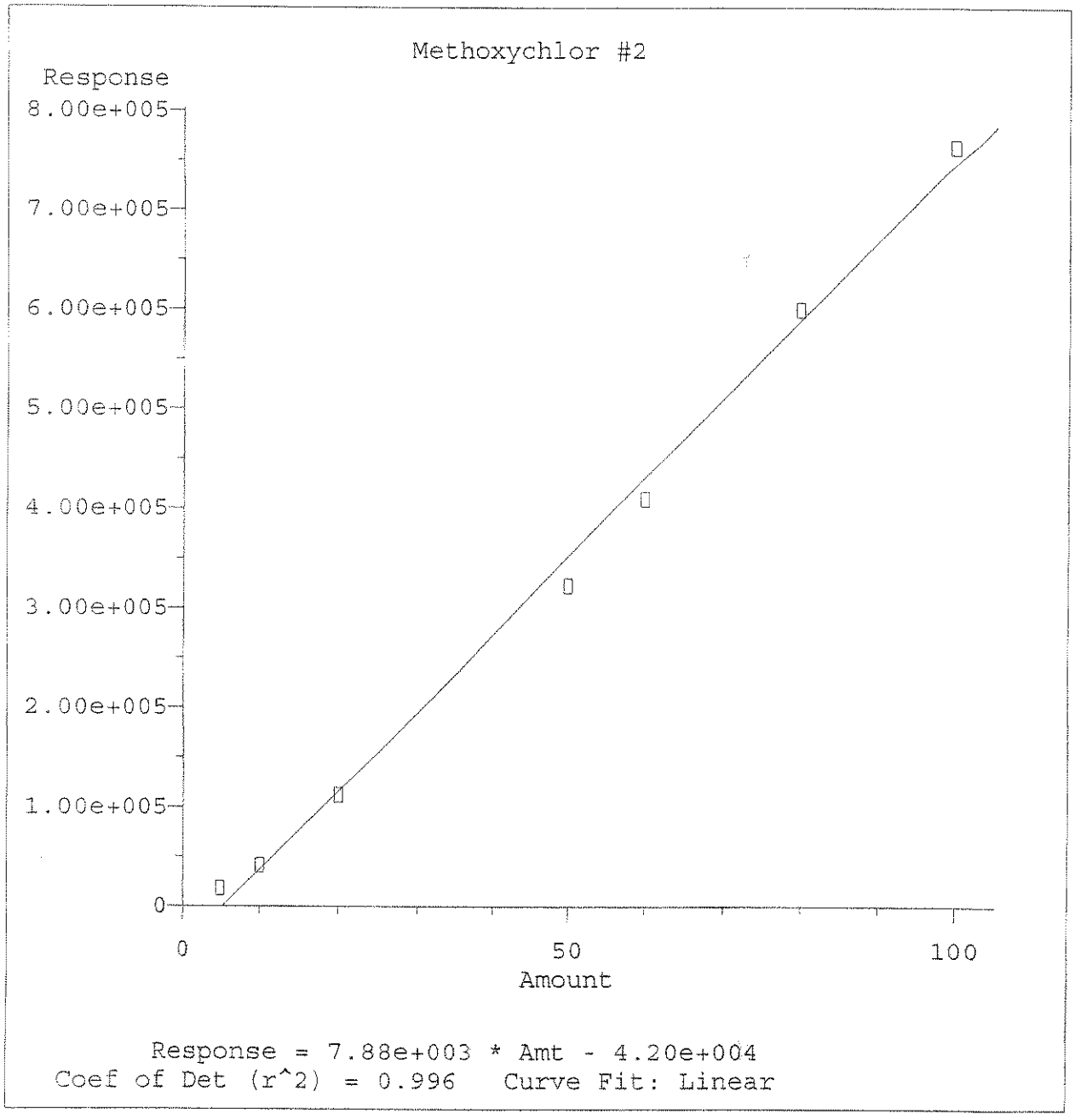
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



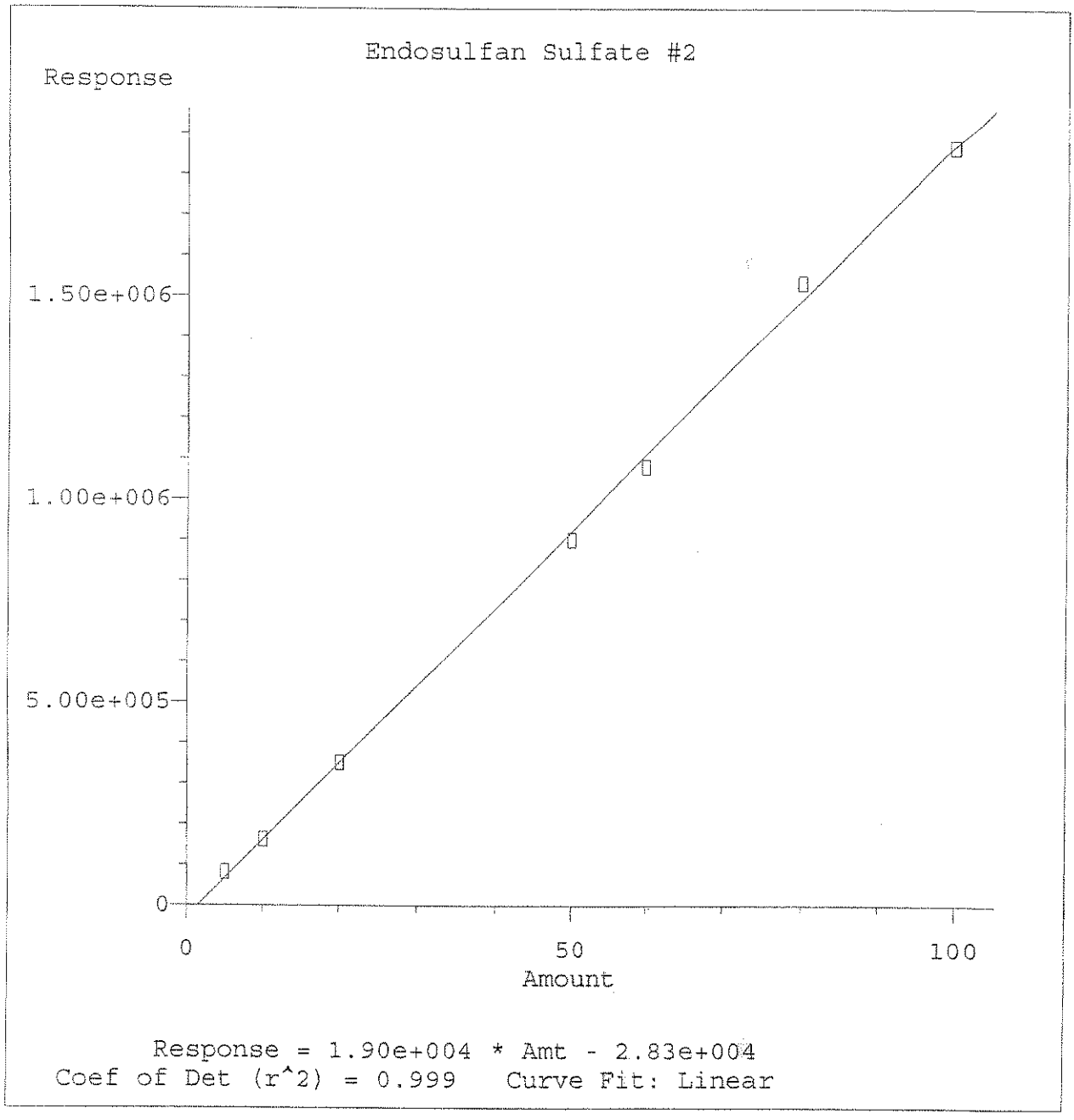
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



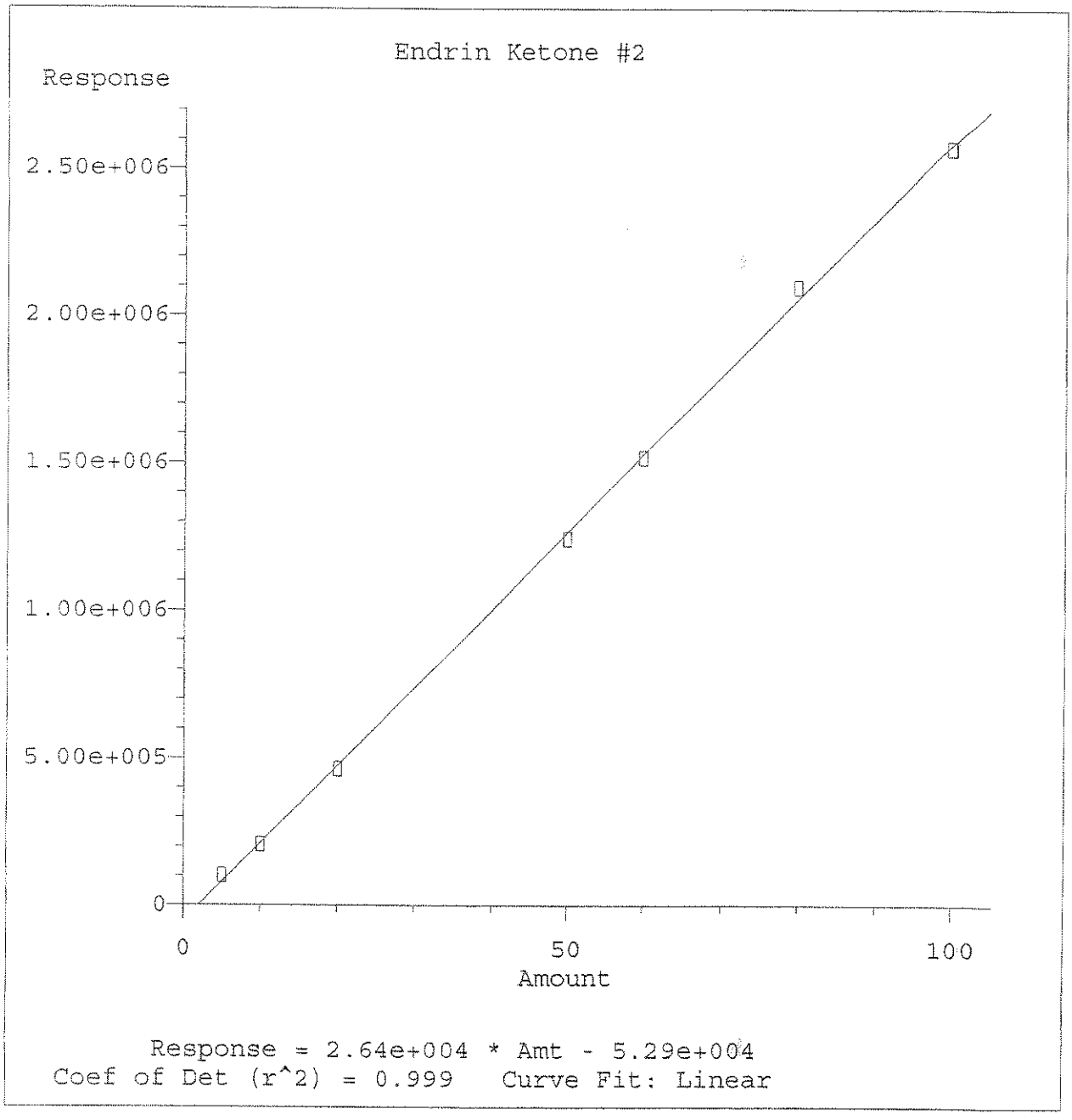
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



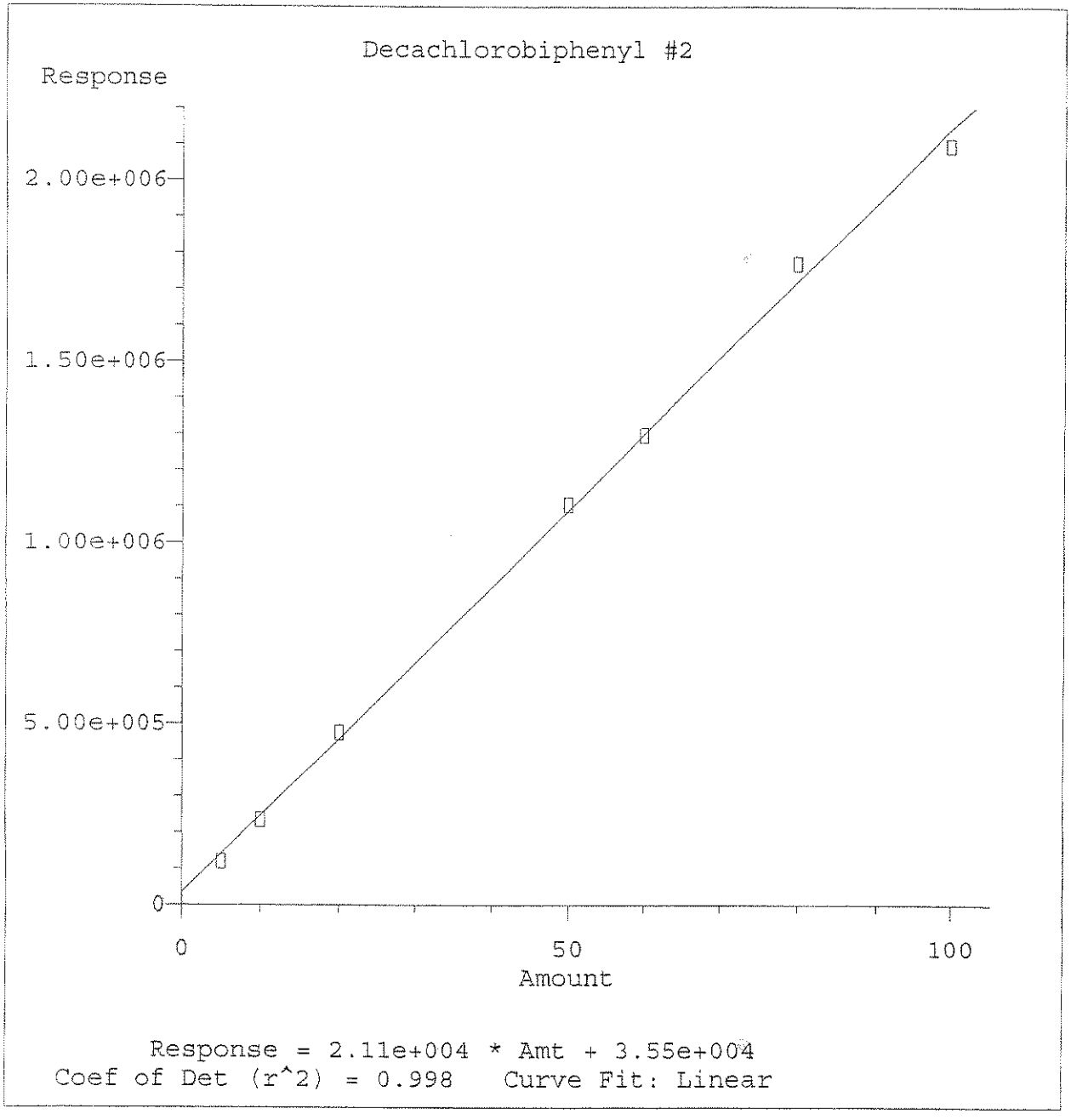
Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006



Method Name: Q:\SVOA\GC3_GE\METHODS\8081EG.M
Calibration Table Last Updated: Sat Jun 17 10:40:15 2006

ANALYSIS SEQUENCE

BPG0199

Instrument: SVOAGC3

Calibnration ID: ~~UNASSIGNED~~ 8081EG

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0199-PEM1	QC		1		6E02036		
BPG0199-CCV1	QC		2		6F14090		
BF61216-BLK1	QC		3				
BF61216-BS1	QC		4				
BF61216-BSD1	QC		5				
0606113-18	SVOC: 8081A ppb Pesticides	D	6				MACTEC Engineering & Consulting, In
BPG0199-CCV2	QC		7		6F15064		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/14/06	71	GE061406B-71	0606131 - 11	8081EF	(RR)	SW
	72	72	12			
	73	73	13			
	74	74	14			
	75	75	15			
	76	76	16			
	77	77	17			
	59	59	PEM			
	60	60	Chlor 250		CF15065	
	61	61	Pest 50 CC		CF15064	
6/14/06	66	61	Pest 50 CC		CF15064	
6/16/06	1	GE061606-01	Prime	8081EG		SW
	2	02	Pem ✓		GE02036 03:11 PM	
	3	03 03	Pest 50 CC Pest 50 CC			
	4	04	Pest 5ppb ✓		CF14082	
	5	05	10ppb ✓		083	
	6	06	20ppb ✓		084	
	7	07	50ppb ✓		085	
	8	08	60ppb ✓		086	
	9	09	80ppb ✓		087	
	10	10	100ppb ✓		088	
	11	11	51		089	
	12	12	~~pest 55~~ ✓		CF14090 CCV1	
	13	13	~~BFC1216 BLK1~~ ✓			
	14	14	~~BS1~~ ✓			
6/16/06	15	GE061606015	BSD ✓	8081EG		SW

CONTROL NUMBER 60.0012-0602A

PAGE_____

ESS LABORATORY
GC 3 Front/Rear RUN LOG

COLUMN RTX CLPesticide

BATCH DATE	VIAL #	FILE #	LAB ID	METHOD	COMMENTS / DILUTION /STANDARD ID	ANALYST
6/16/06	16	G606166D-16	0606113-18	8081EG		SB
	17	17	03		5x	
	18	18	04		10x	
	19	19	05		5x	
	20	20	09		5x	
	21	21	11		2x	
	22	22	12		5X	
	23	23	Tox 2500		6B16090	
	24	24	Chlor 250		~~GF1140~~ GF15065	
	25	25	~~Pest 50~~		GF15069 CCV2 02:25AM	
	25	25	Pest 50		GF15064	
	26	26	Pcm		NG	
	27 28	27 28	BF61007-BIK1 BS1		RR	
	29	29	BSD1			
	30	30	0606131-01		100x	
	31	31	01		1000x	
	32	32	02		100x	
	33	33	02		1000x	
	34	34	03		100x	
	35	35	03		1000x	
	36	36	04		50x	
	37	37	04		500x	
	38	38	08		50x	
	39	39	08		500x	
	40	40	06			
6/16/06	41	41	06	8081EG	5x	SB

CONTROL NUMBER 60.0012-0602A

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Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06166D\002F0101.D Vial: 2
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06166D\002F0101.D\002R0101.D
Acq On : 16 Jun 06 03:11 PM Operator: [GC]2R0101.D\DATA.MS
Sample : PEM Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 19 7:53 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EG.M
Title :
Last Update : Sat Jun 17 10:40:15 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.41	8.56	3115700	974093	43.842	40.658
					Recovery	=	87.68%	81.32%
23)	S	Decachlorobiphenyl	17.81	20.38	1859393	832393	36.218	37.821
					Recovery	=	72.44%	75.64%
		Target Compounds						
2)	M	Hexachlorobenzene	0.00	0.00	0	0	N.D.	N.D.
3)	M	alpha-BHC	0.00	0.00	0	0	N.D.	N.D.
4)	M	gamma-BHC (Lindane)	0.00	0.00	0	0	N.D.	N.D.
5)	M	beta-BHC	0.00	0.00	0	0	N.D.	N.D.
6)	M	delta-BHC	0.00	0.00	0	0	N.D.	N.D.
7)	M	Heptachlor	0.00	0.00	0	0	N.D.	N.D.
8)	M	Aldrin	0.00	0.00	0	0	N.D.	N.D.
9)	M	Heptachlor Epoxide	0.00	0.00	0	0	N.D.	N.D.
10)	M	gamma-Chlordane	0.00	0.00	0	0	N.D.	N.D.
11)	M	alpha-Chlordane	0.00	0.00	0	0	N.D.	N.D.
12)	M	4,4'-DDE	0.00	0.00	0	0	N.D.	N.D.
13)	M	Endosulfan I	0.00	0.00	0	0	N.D.	N.D.
14)	M	Dieldrin	0.00	0.00	0	0	N.D.	N.D.
15)	M	Endrin	13.79	15.13	4331169	1500239	99.866m	95.600m
16)	M	4,4'-DDD	13.91	15.25	185024	65568	4.602m	5.795m#
17)	M	Endosulfan II	0.00	0.00	0	0	N.D.d	N.D.d
18)	M	4,4'-DDT	14.36	15.77	2795563	1020293	84.791	94.196
19)	M	Endrin Aldehyde	14.88	16.04	32148	11803	1.000m	1.211m
20)	M	Methoxychlor	0.00	0.00	0	0	N.D.d	N.D.d
21)	M	Endosulfan Sulfate	0.00	0.00	0	0	N.D.d	N.D.d
22)	M	Endrin Ketone	0.00	0.00	0	0	N.D.d	N.D.d

Σ $\frac{32148}{4363317} = 0.74\%$ DDT $\frac{165024}{2780587} = 6.21\%$

Σ $\frac{11803}{1512042} = 0.78\%$ DDT $\frac{65568}{1565807} = 4.19\%$

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06166D\012F0201.D Vial: 12
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06166D\012F0201.D\012R0201.D
Acq On : 16 Jun 06 08:20 PM Operator: [GC]2R0201.D\DATA.MS
Sample : PEST SS Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 17 10:44 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EG.M
Title :
Last Update : Sat Jun 17 10:40:15 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.41	8.56	3653337	1195923	51.803	49.787
					Recovery	=	103.61%	99.57%
23)	S	Decachlorobiphenyl	17.80	20.38	2675843	1147610	53.260	52.780
					Recovery	=	106.52%	105.56%
		Target Compounds						
2)	M	Hexachlorobenzene	8.41	9.72	4935111	1718593	43.332	43.274m
3)	M	alpha-BHC	8.84	10.06	4108336	1355015	49.424	47.862
4)	M	gamma-BHC (Lindane)	9.56	10.84	3835928	1292526	50.612	48.937
5)	M	beta-BHC	9.78	11.02	2153356	708357	51.214	49.780
6)	M	delta-BHC	10.14	11.61	3578757	1178049	46.767	45.437
7)	M	Heptachlor	10.55	11.74	3391722	1105960	49.787	47.500
8)	M	Aldrin	11.13	12.37	3469643	1205450	50.040	48.645
9)	M	Heptachlor Epoxide	12.28	13.42	3250790	1144145	50.860	49.177
10)	M	gamma-Chlordane	12.50	13.75	3307604	1208341	50.629	49.745
11)	M	alpha-Chlordane	12.73	14.01	3182502	1188160	50.842	49.870
12)	M	4,4'-DDE	12.87	14.26	2965801	1127230	50.142	49.031
13)	M	Endosulfan I	12.97	14.12	3255850	1066277	50.644	48.927
14)	M	Dieldrin	13.39	14.60	2979192	1091248	51.432	50.023
15)	M	Endrin	13.79	15.13	2020597	679395	46.917	44.940
16)	M	4,4'-DDD	13.89	15.24	2503646	891367	50.013	49.461
17)	M	Endosulfan II	14.17	15.48	2688545	1016740	50.771	48.893
18)	M	4,4'-DDT	14.35	15.77	1445762	433064	44.794	44.003
19)	M	Endrin Aldehyde	14.88	16.04	2027166	783005	48.780	47.387
20)	M	Methoxychlor	15.14	16.91	876149	310579	46.011	44.739
21)	M	Endosulfan Sulfate	15.60	16.52	2360126	901410	50.491	48.925
22)	M	Endrin Ketone	16.07	17.56	2775856	1213979	48.253	48.042

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC3_GE\DATA\GE06166D\025F0201.D Vial: 25
Signal #2 : Q:\SVOA\GC3_GE\DATA\GE06166D\025F0201.D\025R0201.D
Acq On : 17 Jun 06 02:25 AM Operator: [GC]5R0201.D
Sample : PEST 50CC Inst : GC3
Misc : Multiplr: 1.00
Quant Time: Jun 17 13:51 19106

Method : Q:\SVOA\GC3_GE\METHODS\8081EG.M
Title :
Last Update : Sat Jun 17 10:40:15 2006
Response via : Multiple Level Calibration

Volume Inj. : 3 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.53 Signal #2 Info : 0.53

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	7.41	8.56	3665694	1200495	51.986m	49.976
					Recovery	=	103.97%	99.95%
23)	S	Decachlorobiphenyl	17.80	20.38	2604873	1124949	51.779	51.705
					Recovery	=	103.56%	103.41%
		Target Compounds						
2)	M	Hexachlorobenzene	8.41	9.72	5899275	2001519	52.604	50.561
3)	M	alpha-BHC	8.84	10.06	4176951	1371380	50.239	48.388
4)	M	gamma-BHC (Lindane)	9.57	10.84	3839438	1306895	50.658	49.444
5)	M	beta-BHC	9.78	11.02	2138867	706331	50.862	49.641
6)	M	delta-BHC	10.14	11.61	3822744	1253839	49.917	48.106
7)	M	Heptachlor	10.55	11.74	3597745	1206771	52.829	51.571
8)	M	Aldrin	11.14	12.37	3504682	1219259	50.552	49.174
9)	M	Heptachlor Epoxide	12.28	13.42	3256059	1150159	50.945	49.429
10)	M	gamma-Chlordane	12.50	13.76	3326025	1208050	50.916	49.733
11)	M	alpha-Chlordane	12.73	14.01	3184581	1187428	50.877	49.839
12)	M	4,4'-DDE	12.87	14.26	2946661	1118575	49.813	48.668
13)	M	Endosulfan I	12.97	14.13	3238888	1073765	50.377	49.259
14)	M	Dieldrin	13.39	14.60	2877261	1062203	49.670	48.750
15)	M	Endrin	13.79	15.13	2089595	719328	48.498	47.404
16)	M	4,4'-DDD	13.89	15.24	2465966	891230	49.275	49.454
17)	M	Endosulfan II	14.17	15.48	2653020	1049968	50.099	50.505
18)	M	4,4'-DDT	14.35	15.77	1614404	477815	49.791	47.829
19)	M	Endrin Aldehyde	14.88	16.04	2144080	868193	51.580	52.487
20)	M	Methoxychlor	15.14	16.91	926305	348414	48.394	49.540
21)	M	Endosulfan Sulfate	15.60	16.52	2359774	915870	50.484	49.686
22)	M	Endrin Ketone	16.07	17.56	3276175	1315575	56.918	51.894

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Pesticides
Logbooks

ESS Organic Preparation Logbook

Project #: 0606071, 0606113
Prep Date: 6/9/06
Batch ID: BXPTXBF60923
Extraction Method: 3541

Surrogate ID#
A 6630055
B NA
C NA

Matrix Spike ID#
D 6F05037
E 6C07037
F NA

Analytical Matrix: soil
Extraction Time:
Start: 1400
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
BXPTXBF60923-B	20.0	1	NA	10	10	NA	6/9/06	40	NA	NA		[illegible]	KAB	SGT
BXBF60923-BS	20.0	1	1.0	10	10									
-BSD	20.0	1	1.0	10	10									
PTXBF60923-BS	20.0	1	1E	10	10									
-BSD	20.0	1	1E	*10	10									
BXPTX0606113-01	19.4	1	NA	10	10									
-02	20.6	1		10	10									
-03	20.0	1		10	10									
-04	21.0	1		10	10									
-05	20.1	1		10	10									
-06	20.6	1		10	10									
-07	20.9	1		10	10									
-08	21.0	1		10	10									
-09	20.0	1		10	10									
-10	19.0	1		10	10									
-11	19.9	1		10	10									
-12	19.6	1		10	10									
-13	19.4	1		10	10									
-14	19.0	1		10	10									
-15	19.3	1		10	10									
-16	21.0	1		10	10									
-17	19.4	1	NA	10	10									
PXD0606113-17MS	19.9	1	1.0	10	10									
-17MSD	19.7	1	1.0	10	10									
PTX0606071-01	10.0	1	NA	10	10	NA	6/9/06	40	NA	NA		[illegible]	KAB	SGT

Analysis Performed
PCB ☑
B/N SVOA ☐
SVOA ☐
LL PAH ☐
PEST ☑
TPH/GC ☐
BIS-2 ☐
PAH ☐

Acid Washed: Y / N
H_2SO_4 ID# 7DD6U5D5A
Cu Cleaned: Y / N
Cu ID# NA
Florisiled: Y / N
Lot# NA
Silica Column/Carbon prep: Y / N [illegible] 6/9/06
Lot # ~~NA~~* M5804

CH_2Cl_2 lot # NA
Hexane lot# CI998
Acetone lot# CIJE11
NaOH ID# NA
Na_2SO_4 ID# MIDD60706C

Prepared By: Mm
Glasswool: MIDD60808
Method #(s): 8081/8082

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A
BATCH ID/Test: BF60923
BATCH ID/Test: ______
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continued from previous page

ESS Organic Preparation Logbook

Project #: 0606071, 060606
Prep Date: 6/9/06
Batch ID: PXPTXBF160923
Extraction Method: 3541

Surrogate ID#
A 6F10055
B
C NA

Matrix Spike ID#
D 6F0F037
E 6C0F037
F NA

Analytical Matrix: soil
Extraction Time:
Start: 1400
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
PTX0606071-01M	10.2	1	1E	10	10	NA	6/9/06	40	NA	NA		GM	KM	SF
-01MD	11.0	1	1E	10	10	↓	↓	↓	↓	↓		GM	|	↓
-03	9.5	1	NA	10	10	NA	6/9/06	40	NA	NA		GM	KM	SF

Analysis Performed
PCB ☑
B/N SVOA ☐
SVOA ☐
LL PAH ☐
PEST ☑
TPH/GC ☐
BIS-2 ☐
PAH ☐

Acid Washed: (Y)/N
H2SO4 ID# F1060501A

Cu Cleaned: Y/(N)
Cu ID# NA

Florisiled: Y/(N)
Lot# NA

Silica Column/Carbon prep: (Y)/N
Lot # P1808

CH_2Cl_2 lot # NA
NaOH ID# NA
Hexane lot# CP a98
Na_2SO_4 ID# PREP0608026C
Acetone lot# C1FE11

Prepared By: MM
Glasswool: PREP0602066
Method #(s): 8081/8082

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A

BATCH ID/Test: BF60923

BATCH ID/Test: ______

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ESS Organic Preparation Logbook

Project #: 0606143,0606113
Prep Date: 6/12/06
Batch ID: ~~RTF~~BF61216
Extraction Method: 3510

Surrogate ID#
A 6F10028
B
C NA

Matrix Spike ID#
D 6C08D37
E NA
F

Analytical Matrix: Aq
Extraction Time:
Start: 2:00
Finish: ——

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml) Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
BF61216-B	1000	0.5	NA	5	5	NA	6/12/06	40	5-9			EM	NM	M
-BS	1000	0.5	0.5	5	5	↓	↓	↓	5-9			↓	↓	↓
-BSD	1000	0.5	0.5	5	5	↓	↓	↓	5-9			↓	↓	↓
0606143-01	1000	0.5	NA	5	5	↓	↓	↓	5-9	✓		↓	↓	↓
-02	1000	0.5	NA	5	5	↓	↓	↓	5-9	✓		↓	↓	↓
0606113-18	1000	0.5	NA	5	5	NA	6/12/06	40	5-9	✓		EM	NM	[illegible]

Analysis Performed: PCB ☐ B/N SVOA ☐ SVOA ☐ LL PAH ☐ PEST ☒ TPH/GC ☐ BIS-2 ☐ PAH ☐

Acid Washed: Y / (N) H2SO4 ID# NA
Cu Cleaned: Y / (N) Cu ID# NA
Florisiled: Y / (N) Lot# NA
Silica Column/Carbon prep: Y / (N) Lot # NA

CH_2Cl_2 lot # CQ479
NaOH ID# NA
Hexane lot# CP998
Na_2SO_4 ID# ~~[illegible]~~ 060906D
Acetone lot# NA

Prepared By: EM
Glasswool ~~[illegible]~~ Method #(s): 8081

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A

BATCH ID/Test: BF61216

BATCH ID/Test: ______

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075

PCB
Data Package

PCB
Sample Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI024
Date Sampled: 06/07/06 10:18
Percent Solids: 77
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-01
Sample Matrix: Soil
Analyst: ML
Prepared: 06/09/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	66.9	1	06/11/06
Aroclor 1221	ND	ug/Kg dry	66.9	1	06/11/06
Aroclor 1232	ND	ug/Kg dry	66.9	1	06/11/06
Aroclor 1242	ND	ug/Kg dry	66.9	1	06/11/06
Aroclor 1248	ND	ug/Kg dry	66.9	1	06/11/06
Aroclor 1254	ND	ug/Kg dry	66.9	1	06/11/06
Aroclor 1260	ND	ug/Kg dry	66.9	1	06/11/06
Aroclor 1262	ND	ug/Kg dry	66.9	1	06/11/06
Aroclor 1268	ND	ug/Kg dry	66.9	1	06/11/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*60 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*112 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*126 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*104 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI202
Date Sampled: 06/07/06 10:42
Percent Solids: 84
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-02
Sample Matrix: Soil
Analyst: ML
Prepared: 06/09/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	57.7	1	06/11/06
Aroclor 1221	ND	ug/Kg dry	57.7	1	06/11/06
Aroclor 1232	ND	ug/Kg dry	57.7	1	06/11/06
Aroclor 1242	ND	ug/Kg dry	57.7	1	06/11/06
Aroclor 1248	ND	ug/Kg dry	57.7	1	06/11/06
Aroclor 1254	ND	ug/Kg dry	57.7	1	06/11/06
Aroclor 1260	ND	ug/Kg dry	57.7	1	06/11/06
Aroclor 1262	ND	ug/Kg dry	57.7	1	06/11/06
Aroclor 1268	ND	ug/Kg dry	57.7	1	06/11/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*52 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*83 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*90 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*73 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI002
Date Sampled: 06/07/06 11:01
Percent Solids: 42
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-03
Sample Matrix: Soil
Analyst: ML
Prepared: 06/09/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	119	1	06/11/06
Aroclor 1221	ND	ug/Kg dry	119	1	06/11/06
Aroclor 1232	ND	ug/Kg dry	119	1	06/11/06
Aroclor 1242	ND	ug/Kg dry	119	1	06/11/06
Aroclor 1248	ND	ug/Kg dry	119	1	06/11/06
Aroclor 1254	ND	ug/Kg dry	119	1	06/11/06
Aroclor 1260	ND	ug/Kg dry	119	1	06/11/06
Aroclor 1262	ND	ug/Kg dry	119	1	06/11/06
Aroclor 1268	ND	ug/Kg dry	119	1	06/11/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*59 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*71 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*99 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*93 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI023
Date Sampled: 06/07/06 12:27
Percent Solids: 78
Initial Volume: 21
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-04
Sample Matrix: Soil
Analyst: ML
Prepared: 06/09/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	61.0	1	06/11/06
Aroclor 1221	ND	ug/Kg dry	61.0	1	06/11/06
Aroclor 1232	ND	ug/Kg dry	61.0	1	06/11/06
Aroclor 1242	ND	ug/Kg dry	61.0	1	06/11/06
Aroclor 1248	ND	ug/Kg dry	61.0	1	06/11/06
Aroclor 1254	ND	ug/Kg dry	61.0	1	06/11/06
Aroclor 1260	ND	ug/Kg dry	61.0	1	06/11/06
Aroclor 1262	ND	ug/Kg dry	61.0	1	06/11/06
Aroclor 1268	ND	ug/Kg dry	61.0	1	06/11/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*56 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*68 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*98 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*90 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI021
Date Sampled: 06/08/06 16:05
Percent Solids: 79
Initial Volume: 20.1
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-05
Sample Matrix: Soil
Analyst: ML
Prepared: 06/09/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	62.9	1	06/11/06
Aroclor 1221	ND	ug/Kg dry	62.9	1	06/11/06
Aroclor 1232	ND	ug/Kg dry	62.9	1	06/11/06
Aroclor 1242	ND	ug/Kg dry	62.9	1	06/11/06
Aroclor 1248	ND	ug/Kg dry	62.9	1	06/11/06
Aroclor 1254	ND	ug/Kg dry	62.9	1	06/11/06
Aroclor 1260	ND	ug/Kg dry	62.9	1	06/11/06
Aroclor 1262	ND	ug/Kg dry	62.9	1	06/11/06
Aroclor 1268	ND	ug/Kg dry	62.9	1	06/11/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*50 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*63 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*85 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*86 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI012
Date Sampled: 06/08/06 12:29
Percent Solids: 92
Initial Volume: 20.6
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-06
Sample Matrix: Soil
Analyst: ML
Prepared: 06/09/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	52.7	1	06/11/06
Aroclor 1221	ND	ug/Kg dry	52.7	1	06/11/06
Aroclor 1232	ND	ug/Kg dry	52.7	1	06/11/06
Aroclor 1242	ND	ug/Kg dry	52.7	1	06/11/06
Aroclor 1248	ND	ug/Kg dry	52.7	1	06/11/06
Aroclor 1254	ND	ug/Kg dry	52.7	1	06/11/06
Aroclor 1260	ND	ug/Kg dry	52.7	1	06/11/06
Aroclor 1262	ND	ug/Kg dry	52.7	1	06/11/06
Aroclor 1268	ND	ug/Kg dry	52.7	1	06/11/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*57 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*65 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*93 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI013
Date Sampled: 06/08/06 14:01
Percent Solids: 93
Initial Volume: 20.9
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-07
Sample Matrix: Soil
Analyst: ML
Prepared: 06/09/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	51.4	1	06/11/06
Aroclor 1221	ND	ug/Kg dry	51.4	1	06/11/06
Aroclor 1232	ND	ug/Kg dry	51.4	1	06/11/06
Aroclor 1242	ND	ug/Kg dry	51.4	1	06/11/06
Aroclor 1248	ND	ug/Kg dry	51.4	1	06/11/06
Aroclor 1254	ND	ug/Kg dry	51.4	1	06/11/06
Aroclor 1260	ND	ug/Kg dry	51.4	1	06/11/06
Aroclor 1262	ND	ug/Kg dry	51.4	1	06/11/06
Aroclor 1268	ND	ug/Kg dry	51.4	1	06/11/06

	%Recovery	*Qualifier*	*Limits*
Surrogate: Decachlorobiphenyl	*56 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*63 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*92 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*88 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI014
Date Sampled: 06/08/06 14:16
Percent Solids: 94
Initial Volume: 21
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-08
Sample Matrix: Soil
Analyst: ML
Prepared: 06/09/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	50.6	1	06/11/06
Aroclor 1221	ND	ug/Kg dry	50.6	1	06/11/06
Aroclor 1232	ND	ug/Kg dry	50.6	1	06/11/06
Aroclor 1242	ND	ug/Kg dry	50.6	1	06/11/06
Aroclor 1248	ND	ug/Kg dry	50.6	1	06/11/06
Aroclor 1254	ND	ug/Kg dry	50.6	1	06/11/06
Aroclor 1260	ND	ug/Kg dry	50.6	1	06/11/06
Aroclor 1262	ND	ug/Kg dry	50.6	1	06/11/06
Aroclor 1268	ND	ug/Kg dry	50.6	1	06/11/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*64 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*70 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*100 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*98 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI015
Date Sampled: 06/08/06 14:31
Percent Solids: 89
Initial Volume: 20
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-09
Sample Matrix: Soil
Analyst: ML
Prepared: 06/09/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	56.1	1	06/11/06
Aroclor 1221	ND	ug/Kg dry	56.1	1	06/11/06
Aroclor 1232	ND	ug/Kg dry	56.1	1	06/11/06
Aroclor 1242	ND	ug/Kg dry	56.1	1	06/11/06
Aroclor 1248	ND	ug/Kg dry	56.1	1	06/11/06
Aroclor 1254	**126**	ug/Kg dry	56.1	1	06/11/06
Aroclor 1260	ND	ug/Kg dry	56.1	1	06/11/06
Aroclor 1262	ND	ug/Kg dry	56.1	1	06/11/06
Aroclor 1268	ND	ug/Kg dry	56.1	1	06/11/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*73 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*101 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*102 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*90 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI016
Date Sampled: 06/08/06 14:51
Percent Solids: 92
Initial Volume: 19
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-10
Sample Matrix: Soil
Analyst: ML
Prepared: 06/09/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	57.2	1	06/11/06
Aroclor 1221	ND	ug/Kg dry	57.2	1	06/11/06
Aroclor 1232	ND	ug/Kg dry	57.2	1	06/11/06
Aroclor 1242	ND	ug/Kg dry	57.2	1	06/11/06
Aroclor 1248	ND	ug/Kg dry	57.2	1	06/11/06
Aroclor 1254	ND	ug/Kg dry	57.2	1	06/11/06
Aroclor 1260	ND	ug/Kg dry	57.2	1	06/11/06
Aroclor 1262	ND	ug/Kg dry	57.2	1	06/11/06
Aroclor 1268	ND	ug/Kg dry	57.2	1	06/11/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*51 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*80 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*93 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*90 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI017
Date Sampled: 06/08/06 15:05
Percent Solids: 90
Initial Volume: 19.9
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-11
Sample Matrix: Soil
Analyst: ML
Prepared: 06/09/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	55.8	1	06/11/06
Aroclor 1221	ND	ug/Kg dry	55.8	1	06/11/06
Aroclor 1232	ND	ug/Kg dry	55.8	1	06/11/06
Aroclor 1242	ND	ug/Kg dry	55.8	1	06/11/06
Aroclor 1248	ND	ug/Kg dry	55.8	1	06/11/06
Aroclor 1254	ND	ug/Kg dry	55.8	1	06/11/06
Aroclor 1260	ND	ug/Kg dry	55.8	1	06/11/06
Aroclor 1262	ND	ug/Kg dry	55.8	1	06/11/06
Aroclor 1268	ND	ug/Kg dry	55.8	1	06/11/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*52 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*87 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*125 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*101 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI018
Date Sampled: 06/08/06 15:18
Percent Solids: 93
Initial Volume: 19.6
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-12
Sample Matrix: Soil
Analyst: ML
Prepared: 06/09/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	54.8	1	06/11/06
Aroclor 1221	ND	ug/Kg dry	54.8	1	06/11/06
Aroclor 1232	ND	ug/Kg dry	54.8	1	06/11/06
Aroclor 1242	ND	ug/Kg dry	54.8	1	06/11/06
Aroclor 1248	ND	ug/Kg dry	54.8	1	06/11/06
Aroclor 1254	ND	ug/Kg dry	54.8	1	06/11/06
Aroclor 1260	ND	ug/Kg dry	54.8	1	06/11/06
Aroclor 1262	ND	ug/Kg dry	54.8	1	06/11/06
Aroclor 1268	ND	ug/Kg dry	54.8	1	06/11/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*52 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*66 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*95 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*84 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI019
Date Sampled: 06/08/06 15:25
Percent Solids: 93
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-13
Sample Matrix: Soil
Analyst: ML
Prepared: 06/09/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	55.4	1	06/11/06
Aroclor 1221	ND	ug/Kg dry	55.4	1	06/11/06
Aroclor 1232	ND	ug/Kg dry	55.4	1	06/11/06
Aroclor 1242	ND	ug/Kg dry	55.4	1	06/11/06
Aroclor 1248	ND	ug/Kg dry	55.4	1	06/11/06
Aroclor 1254	ND	ug/Kg dry	55.4	1	06/11/06
Aroclor 1260	ND	ug/Kg dry	55.4	1	06/11/06
Aroclor 1262	ND	ug/Kg dry	55.4	1	06/11/06
Aroclor 1268	ND	ug/Kg dry	55.4	1	06/11/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*61 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*62 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*97 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*99 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI020
Date Sampled: 06/08/06 15:43
Percent Solids: 88
Initial Volume: 19
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-14
Sample Matrix: Soil
Analyst: ML
Prepared: 06/09/06

8082 Polychlorinated Biphenyls (PCB)

Analyte		Results	Units	MRL	DF	Analyzed
Aroclor 1016		ND	ug/Kg dry	59.7	1	06/11/06
Aroclor 1221		ND	ug/Kg dry	59.7	1	06/11/06
Aroclor 1232		ND	ug/Kg dry	59.7	1	06/11/06
Aroclor 1242	E	**4250**	ug/Kg dry	59.7	1	06/11/06
Aroclor 1248		ND	ug/Kg dry	59.7	1	06/11/06
Aroclor 1254		ND	ug/Kg dry	59.7	1	06/11/06
Aroclor 1260		ND	ug/Kg dry	59.7	1	06/11/06
Aroclor 1262		ND	ug/Kg dry	59.7	1	06/11/06
Aroclor 1268		ND	ug/Kg dry	59.7	1	06/11/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*92 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*126 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*112 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*97 %*		*30-150*

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ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI020
Date Sampled: 06/08/06 15:43
Percent Solids: 88
Initial Volume: 19
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-14RE1
Sample Matrix: Soil
Analyst: ML
Prepared: 06/09/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	597	10	06/14/06
Aroclor 1221	ND	ug/Kg dry	597	10	06/14/06
Aroclor 1232	ND	ug/Kg dry	597	10	06/14/06
Aroclor 1242	**6870**	ug/Kg dry	597	10	06/14/06
Aroclor 1248	ND	ug/Kg dry	597	10	06/14/06
Aroclor 1254	ND	ug/Kg dry	597	10	06/14/06
Aroclor 1260	ND	ug/Kg dry	597	10	06/14/06
Aroclor 1262	ND	ug/Kg dry	597	10	06/14/06
Aroclor 1268	ND	ug/Kg dry	597	10	06/14/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*148 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*137 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*130 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*105 %*		*30-150*

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CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI101
Date Sampled: 06/08/06 09:52
Percent Solids: 85
Initial Volume: 19.3
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-15
Sample Matrix: Soil
Analyst: ML
Prepared: 06/09/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	60.9	1	06/11/06
Aroclor 1221	ND	ug/Kg dry	60.9	1	06/11/06
Aroclor 1232	ND	ug/Kg dry	60.9	1	06/11/06
Aroclor 1242	ND	ug/Kg dry	60.9	1	06/11/06
Aroclor 1248	ND	ug/Kg dry	60.9	1	06/11/06
Aroclor 1254	ND	ug/Kg dry	60.9	1	06/11/06
Aroclor 1260	ND	ug/Kg dry	60.9	1	06/11/06
Aroclor 1262	ND	ug/Kg dry	60.9	1	06/11/06
Aroclor 1268	ND	ug/Kg dry	60.9	1	06/11/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*54 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*66 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*93 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*82 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI022
Date Sampled: 06/08/06 09:13
Percent Solids: 91
Initial Volume: 21
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-16
Sample Matrix: Soil
Analyst: ML
Prepared: 06/09/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	52.3	1	06/11/06
Aroclor 1221	ND	ug/Kg dry	52.3	1	06/11/06
Aroclor 1232	ND	ug/Kg dry	52.3	1	06/11/06
Aroclor 1242	ND	ug/Kg dry	52.3	1	06/11/06
Aroclor 1248	ND	ug/Kg dry	52.3	1	06/11/06
Aroclor 1254	ND	ug/Kg dry	52.3	1	06/11/06
Aroclor 1260	ND	ug/Kg dry	52.3	1	06/11/06
Aroclor 1262	ND	ug/Kg dry	52.3	1	06/11/06
Aroclor 1268	ND	ug/Kg dry	52.3	1	06/11/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*50 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*69 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*85 %*		*30-150*

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI205
Date Sampled: 06/08/06 07:44
Percent Solids: 89
Initial Volume: 19.4
Final Volume: 10
Extraction Method: 3541

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-17
Sample Matrix: Soil
Analyst: ML
Prepared: 06/09/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/Kg dry	57.9	1	06/11/06
Aroclor 1221	ND	ug/Kg dry	57.9	1	06/11/06
Aroclor 1232	ND	ug/Kg dry	57.9	1	06/11/06
Aroclor 1242	ND	ug/Kg dry	57.9	1	06/11/06
Aroclor 1248	ND	ug/Kg dry	57.9	1	06/11/06
Aroclor 1254	ND	ug/Kg dry	57.9	1	06/11/06
Aroclor 1260	ND	ug/Kg dry	57.9	1	06/11/06
Aroclor 1262	ND	ug/Kg dry	57.9	1	06/11/06
Aroclor 1268	ND	ug/Kg dry	57.9	1	06/11/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*59 %*		*30-150*
Surrogate: Decachlorobiphenyl [2C]	*67 %*		*30-150*
Surrogate: Tetrachloro-m-xylene	*91 %*		*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*84 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: RB-1
Date Sampled: 06/08/06 10:41
Percent Solids: N/A
Initial Volume: 1000
Final Volume: 1
Extraction Method: 3510C

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-18
Sample Matrix: Aqueous
Analyst: ML
Prepared: 06/12/06

8082 Polychlorinated Biphenyls (PCB)

Analyte	Results	Units	MRL	DF	Analyzed
Aroclor 1016	ND	ug/L	0.100	1	06/16/06
Aroclor 1221	ND	ug/L	0.100	1	06/16/06
Aroclor 1232	ND	ug/L	0.100	1	06/16/06
Aroclor 1242	ND	ug/L	0.100	1	06/16/06
Aroclor 1248	ND	ug/L	0.100	1	06/16/06
Aroclor 1254	ND	ug/L	0.100	1	06/16/06
Aroclor 1260	ND	ug/L	0.100	1	06/16/06
Aroclor 1262	ND	ug/L	0.100	1	06/16/06
Aroclor 1268	ND	ug/L	0.100	1	06/16/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*11 %*	*+*	*40-140*
Surrogate: Decachlorobiphenyl [2C]	*%*	*+*	*40-140*
Surrogate: Tetrachloro-m-xylene	*%*	*+*	*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*%*	*+*	*40-140*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: RB-1
Date Sampled: 06/08/06 10:41
Percent Solids: N/A
Initial Volume: 1000
Final Volume: 1
Extraction Method: 3510C

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-18RE1
Sample Matrix: Aqueous
Analyst: ML
Prepared: 06/16/06

8082 Polychlorinated Biphenyls (PCB)

Analyte		Results	Units	MRL	DF	Analyzed
Aroclor 1016	H	ND	ug/L	0.100	1	06/19/06
Aroclor 1221	H	ND	ug/L	0.100	1	06/19/06
Aroclor 1232	H	ND	ug/L	0.100	1	06/19/06
Aroclor 1242	H	ND	ug/L	0.100	1	06/19/06
Aroclor 1248	H	ND	ug/L	0.100	1	06/19/06
Aroclor 1254	H	ND	ug/L	0.100	1	06/19/06
Aroclor 1260	H	ND	ug/L	0.100	1	06/19/06
Aroclor 1262	H	ND	ug/L	0.100	1	06/19/06
Aroclor 1268	H	ND	ug/L	0.100	1	06/19/06

	%Recovery	Qualifier	Limits
Surrogate: Decachlorobiphenyl	*67 %*	*H*	*40-140*
Surrogate: Decachlorobiphenyl [2C]	*74 %*	*H*	*40-140*
Surrogate: Tetrachloro-m-xylene	*76 %*	*H*	*30-150*
Surrogate: Tetrachloro-m-xylene [2C]	*78 %*	*H*	*40-140*

PCB
Quality Control Data

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8081A Organochlorine Pesticides										
Batch BF61216 - 3510C										
Endosulfan I	0.26	0.05	ug/L	0.250		104	40-140			
Endosulfan II	0.26	0.05	ug/L	0.250		104	40-140			
Endosulfan Sulfate	0.24	0.05	ug/L	0.250		96	40-140			
Endrin	0.25	0.05	ug/L	0.250		100	40-140			
Endrin Aldehyde	0.24	0.05	ug/L	0.250		96	40-140			
Endrin Ketone	0.25	0.05	ug/L	0.250		100	40-140			
gamma-BHC (Lindane)	0.25	0.05	ug/L	0.250		100	40-140			
gamma-Chlordane	0.26	0.05	ug/L	0.250		104	40-140			
Heptachlor	0.27	0.05	ug/L	0.250		108	40-140			
Heptachlor Epoxide	0.26	0.05	ug/L	0.250		104	40-140			
Hexachlorobenzene	0.17	0.05	ug/L	0.250		68	40-140			
Methoxychlor	0.26	0.05	ug/L	0.250		104	40-140			
Surrogate: Decachlorobiphenyl	*0.326*		ug/L	*0.250*		*130*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.333*		ug/L	*0.250*		*133*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.222*		ug/L	*0.250*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.226*		ug/L	*0.250*		*90*	*30-150*			
LCS Dup										
4,4´-DDD	0.29	0.05	ug/L	0.250		116	40-140	11	30	
4,4´-DDE	0.29	0.05	ug/L	0.250		116	40-140	11	30	
4,4´-DDT	0.32	0.05	ug/L	0.250		128	40-140	17	30	
Aldrin	0.29	0.05	ug/L	0.250		116	40-140	15	30	
alpha-BHC	0.27	0.05	ug/L	0.250		108	40-140	12	30	
alpha-Chlordane	0.29	0.05	ug/L	0.250		116	40-140	11	30	
beta-BHC	0.30	0.05	ug/L	0.250		120	40-140	14	30	
delta-BHC	0.18	0.05	ug/L	0.250		72	40-140	18	30	
Dieldrin	0.30	0.05	ug/L	0.250		120	40-140	11	30	
Endosulfan I	0.30	0.05	ug/L	0.250		120	40-140	14	30	
Endosulfan II	0.30	0.05	ug/L	0.250		120	40-140	14	30	
Endosulfan Sulfate	0.27	0.05	ug/L	0.250		108	40-140	12	30	
Endrin	0.29	0.05	ug/L	0.250		116	40-140	15	30	
Endrin Aldehyde	0.27	0.05	ug/L	0.250		108	40-140	12	30	
Endrin Ketone	0.30	0.05	ug/L	0.250		120	40-140	18	30	
gamma-BHC (Lindane)	0.29	0.05	ug/L	0.250		116	40-140	15	30	
gamma-Chlordane	0.29	0.05	ug/L	0.250		116	40-140	11	30	
Heptachlor	0.31	0.05	ug/L	0.250		124	40-140	14	30	
Heptachlor Epoxide	0.30	0.05	ug/L	0.250		120	40-140	14	30	
Hexachlorobenzene	0.19	0.05	ug/L	0.250		76	40-140	11	30	
Methoxychlor	0.31	0.05	ug/L	0.250		124	40-140	18	30	
Surrogate: Decachlorobiphenyl	*0.373*		ug/L	*0.250*		*149*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*0.375*		ug/L	*0.250*		*150*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*0.245*		ug/L	*0.250*		*98*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.251*		ug/L	*0.250*		*100*	*30-150*			
8082 Polychlorinated Biphenyls (PCB)										
Batch BF60923 - 3541										

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch BF60923 - 3541										
Blank										
Aroclor 1016	ND	50.0	ug/Kg wet							
Aroclor 1221	ND	50.0	ug/Kg wet							
Aroclor 1232	ND	50.0	ug/Kg wet							
Aroclor 1242	ND	50.0	ug/Kg wet							
Aroclor 1248	ND	50.0	ug/Kg wet							
Aroclor 1254	ND	50.0	ug/Kg wet							
Aroclor 1260	ND	50.0	ug/Kg wet							
Aroclor 1262	ND	50.0	ug/Kg wet							
Aroclor 1268	ND	50.0	ug/Kg wet							
Surrogate: Decachlorobiphenyl	*13.6*		ug/Kg wet	*25.0*		*54*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*14.0*		ug/Kg wet	*25.0*		*56*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*23.4*		ug/Kg wet	*25.0*		*94*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*23.2*		ug/Kg wet	*25.0*		*93*	*30-150*			
LCS										
Aroclor 1016	488	50.0	ug/Kg wet	500		98	40-140			
Aroclor 1260	451	50.0	ug/Kg wet	500		90	40-140			
Surrogate: Decachlorobiphenyl	*16.6*		ug/Kg wet	*25.0*		*66*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*16.1*		ug/Kg wet	*25.0*		*64*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*22.2*		ug/Kg wet	*25.0*		*89*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*24.0*		ug/Kg wet	*25.0*		*96*	*30-150*			
LCS Dup										
Aroclor 1016	494	50.0	ug/Kg wet	500		99	40-140	1	50	
Aroclor 1260	431	50.0	ug/Kg wet	500		86	40-140	5	50	
Surrogate: Decachlorobiphenyl	*16.3*		ug/Kg wet	*25.0*		*65*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*15.8*		ug/Kg wet	*25.0*		*63*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*23.4*		ug/Kg wet	*25.0*		*94*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*24.2*		ug/Kg wet	*25.0*		*97*	*30-150*			
Matrix Spike Source: 0606113-17										
Aroclor 1016	539	56.4	ug/Kg dry	565	ND	95	40-140			
Aroclor 1260	439	56.4	ug/Kg dry	565	ND	78	40-140			
Surrogate: Decachlorobiphenyl	*18.2*		ug/Kg dry	*28.2*		*65*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*18.1*		ug/Kg dry	*28.2*		*64*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*25.7*		ug/Kg dry	*28.2*		*91*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*25.9*		ug/Kg dry	*28.2*		*92*	*30-150*			
Matrix Spike Dup Source: 0606113-17										
Aroclor 1016	456	57.0	ug/Kg dry	570	ND	80	40-140	17	50	
Aroclor 1260	379	57.0	ug/Kg dry	570	ND	66	40-140	15	50	
Surrogate: Decachlorobiphenyl	*15.7*		ug/Kg dry	*28.5*		*55*	*30-150*			
Surrogate: Decachlorobiphenyl [2C]	*15.5*		ug/Kg dry	*28.5*		*54*	*30-150*			
Surrogate: Tetrachloro-m-xylene	*22.0*		ug/Kg dry	*28.5*		*77*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*22.0*		ug/Kg dry	*28.5*		*77*	*30-150*			

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch BF61217 - 3510C										
Blank										
Aroclor 1016	ND	0.100	ug/L							
Aroclor 1016 (1)	ND	0.100	ug/L							
Aroclor 1016 (1) [2C]	ND	0.100	ug/L							
Aroclor 1016 (2)	ND	0.100	ug/L							
Aroclor 1016 (2) [2C]	ND	0.100	ug/L							
Aroclor 1016 (3)	ND	0.100	ug/L							
Aroclor 1016 (3) [2C]	ND	0.100	ug/L							
Aroclor 1016 (4)	ND	0.100	ug/L							
Aroclor 1016 (4) [2C]	ND	0.100	ug/L							
Aroclor 1016 (5)	ND	0.100	ug/L							
Aroclor 1016 (5) [2C]	ND	0.100	ug/L							
Aroclor 1221	ND	0.100	ug/L							
Aroclor 1221 (1)	ND	0.100	ug/L							
Aroclor 1221 (1) [2C]	ND	0.100	ug/L							
Aroclor 1221 (2)	ND	0.100	ug/L							
Aroclor 1221 (2) [2C]	ND	0.100	ug/L							
Aroclor 1221 (3)	ND	0.100	ug/L							
Aroclor 1221 (3) [2C]	ND	0.100	ug/L							
Aroclor 1221 (4)	ND	0.100	ug/L							
Aroclor 1221 (4) [2C]	ND	0.100	ug/L							
Aroclor 1221 (5)	ND	0.100	ug/L							
Aroclor 1221 (5) [2C]	ND	0.100	ug/L							
Aroclor 1232	ND	0.100	ug/L							
Aroclor 1232 (1)	ND	0.100	ug/L							
Aroclor 1232 (1) [2C]	ND	0.100	ug/L							
Aroclor 1232 (2)	ND	0.100	ug/L							
Aroclor 1232 (2) [2C]	ND	0.100	ug/L							
Aroclor 1232 (3)	ND	0.100	ug/L							
Aroclor 1232 (3) [2C]	ND	0.100	ug/L							
Aroclor 1232 (4)	ND	0.100	ug/L							
Aroclor 1232 (4) [2C]	ND	0.100	ug/L							
Aroclor 1232 (5)	ND	0.100	ug/L							
Aroclor 1232 (5) [2C]	ND	0.100	ug/L							
Aroclor 1242	ND	0.100	ug/L							
Aroclor 1242 (1)	ND	0.100	ug/L							
Aroclor 1242 (1) [2C]	ND	0.100	ug/L							
Aroclor 1242 (2)	ND	0.100	ug/L							
Aroclor 1242 (2) [2C]	ND	0.100	ug/L							
Aroclor 1242 (3)	ND	0.100	ug/L							
Aroclor 1242 (3) [2C]	ND	0.100	ug/L							
Aroclor 1242 (4)	ND	0.100	ug/L							
Aroclor 1242 (4) [2C]	ND	0.100	ug/L							
Aroclor 1242 (5)	ND	0.100	ug/L							
Aroclor 1242 (5) [2C]	ND	0.100	ug/L							
Aroclor 1248	ND	0.100	ug/L							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch BF61217 - 3510C										
Aroclor 1248 (1)	ND	0.100	ug/L							
Aroclor 1248 (1) [2C]	ND	0.100	ug/L							
Aroclor 1248 (2)	ND	0.100	ug/L							
Aroclor 1248 (2) [2C]	ND	0.100	ug/L							
Aroclor 1248 (3)	ND	0.100	ug/L							
Aroclor 1248 (3) [2C]	ND	0.100	ug/L							
Aroclor 1248 (4)	ND	0.100	ug/L							
Aroclor 1248 (4) [2C]	ND	0.100	ug/L							
Aroclor 1248 (5)	ND	0.100	ug/L							
Aroclor 1248 (5) [2C]	ND	0.100	ug/L							
Aroclor 1254	ND	0.100	ug/L							
Aroclor 1254 (1)	ND	0.100	ug/L							
Aroclor 1254 (1) [2C]	ND	0.100	ug/L							
Aroclor 1254 (2)	ND	0.100	ug/L							
Aroclor 1254 (2) [2C]	ND	0.100	ug/L							
Aroclor 1254 (3)	ND	0.100	ug/L							
Aroclor 1254 (3) [2C]	ND	0.100	ug/L							
Aroclor 1254 (4)	ND	0.100	ug/L							
Aroclor 1254 (4) [2C]	ND	0.100	ug/L							
Aroclor 1254 (5)	ND	0.100	ug/L							
Aroclor 1254 (5) [2C]	ND	0.100	ug/L							
Aroclor 1260	ND	0.100	ug/L							
Aroclor 1260 (1)	ND	0.100	ug/L							
Aroclor 1260 (1) [2C]	ND	0.100	ug/L							
Aroclor 1260 (2)	ND	0.100	ug/L							
Aroclor 1260 (2) [2C]	ND	0.100	ug/L							
Aroclor 1260 (3)	ND	0.100	ug/L							
Aroclor 1260 (3) [2C]	ND	0.100	ug/L							
Aroclor 1260 (4)	ND	0.100	ug/L							
Aroclor 1260 (4) [2C]	ND	0.100	ug/L							
Aroclor 1260 (5)	ND	0.100	ug/L							
Aroclor 1260 (5) [2C]	ND	0.100	ug/L							
Aroclor 1262	ND	0.100	ug/L							
Aroclor 1262 (1)	ND	0.100	ug/L							
Aroclor 1262 (1) [2C]	ND	0.100	ug/L							
Aroclor 1262 (2)	ND	0.100	ug/L							
Aroclor 1262 (2) [2C]	ND	0.100	ug/L							
Aroclor 1262 (3)	ND	0.100	ug/L							
Aroclor 1262 (3) [2C]	ND	0.100	ug/L							
Aroclor 1262 (4)	ND	0.100	ug/L							
Aroclor 1262 (4) [2C]	ND	0.100	ug/L							
Aroclor 1262 (5)	ND	0.100	ug/L							
Aroclor 1262 (5) [2C]	ND	0.100	ug/L							
Aroclor 1268	ND	0.100	ug/L							
Aroclor 1268 (1)	ND	0.100	ug/L							
Aroclor 1268 (1) [2C]	ND	0.100	ug/L							
Aroclor 1268 (2)	ND	0.100	ug/L							

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site

ESS Laboratory Work Order: 0606113

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
Batch BF61217 - 3510C										
Aroclor 1268 (2) [2C]	ND	0.100	ug/L							
Aroclor 1268 (3)	ND	0.100	ug/L							
Aroclor 1268 (3) [2C]	ND	0.100	ug/L							
Aroclor 1268 (4)	ND	0.100	ug/L							
Aroclor 1268 (4) [2C]	ND	0.100	ug/L							
Aroclor 1268 (5)	ND	0.100	ug/L							
Aroclor 1268 (5) [2C]	ND	0.100	ug/L							
Surrogate: Decachlorobiphenyl	*0.0423*		ug/L	*0.0500*		*85*	*40-140*			
Surrogate: Decachlorobiphenyl [2C]	*0.0388*		ug/L	*0.0500*		*78*	*40-140*			
Surrogate: Tetrachloro-m-xylene	*0.0429*		ug/L	*0.0500*		*86*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0419*		ug/L	*0.0500*		*84*	*40-140*			
LCS										
Aroclor 1016	0.880	0.100	ug/L	1.00		88	40-140			
Aroclor 1260	0.907	0.100	ug/L	1.00		91	40-140			
Surrogate: Decachlorobiphenyl	*0.0539*		ug/L	*0.0500*		*108*	*40-140*			
Surrogate: Decachlorobiphenyl [2C]	*0.0467*		ug/L	*0.0500*		*93*	*40-140*			
Surrogate: Tetrachloro-m-xylene	*0.0458*		ug/L	*0.0500*		*92*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0418*		ug/L	*0.0500*		*84*	*40-140*			
LCS Dup										
Aroclor 1016	0.895	0.100	ug/L	1.00		90	40-140	2	50	
Aroclor 1260	0.802	0.100	ug/L	1.00		80	40-140	12	50	
Surrogate: Decachlorobiphenyl	*0.0436*		ug/L	*0.0500*		*87*	*40-140*			
Surrogate: Decachlorobiphenyl [2C]	*0.0421*		ug/L	*0.0500*		*84*	*40-140*			
Surrogate: Tetrachloro-m-xylene	*0.0359*		ug/L	*0.0500*		*72*	*30-150*			
Surrogate: Tetrachloro-m-xylene [2C]	*0.0485*		ug/L	*0.0500*		*97*	*40-140*			
8270C Polynuclear Aromatic Hydrocarbons										
Batch BF61201 - 3541										
Blank										
1-Methylnaphthalene	ND	500	ug/Kg wet							
2-Methylnaphthalene	ND	500	ug/Kg wet							
Acenaphthene	ND	500	ug/Kg wet							
Acenaphthylene	ND	500	ug/Kg wet							
Anthracene	ND	500	ug/Kg wet							
Benzo(a)anthracene	ND	500	ug/Kg wet							
Benzo(a)pyrene	ND	500	ug/Kg wet							
Benzo(b)fluoranthene	ND	500	ug/Kg wet							
Benzo(g,h,i)perylene	ND	500	ug/Kg wet							
Benzo(k)fluoranthene	ND	500	ug/Kg wet							
Chrysene	ND	500	ug/Kg wet							
Dibenzo(a,h)Anthracene	ND	500	ug/Kg wet							
Fluoranthene	ND	500	ug/Kg wet							
Fluorene	ND	500	ug/Kg wet							
Indeno(1,2,3-cd)Pyrene	ND	500	ug/Kg wet							

PCB
Calibration Data

ANALYSIS SEQUENCE

BPG0135

Instrument: SVOAGC5

Calibnration ID: UNASSIGNED 8082CV

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0135-CAL1	QC 1660 50		1		6E31038		
BPG0135-CAL2	QC 1660 100		2		6E31039		
BPG0135-CAL3	QC 1660 500		3		6E31040		
BPG0135-CAL4	QC 1660 1000		4		6E31041		
BPG0135-CAL5	QC 1660 1600		5		6E31042		
BPG0135-CAL6	QC 1660 2000		6		6E31043		
BPG0135-SCV1	QC 1660 1000		7		6E31044		
BPG0135-CAL7	QC 1221		8		6E31045		
BPG0135-SCV2	QC 1221 SCV		9		6E31046		
BPG0135-CAL8	QC 1232		10		6E31047		
BPG0135-SCV3	QC 1232 SCV		11		6E31048		
BPG0135-CAL9	QC 1242		12		6E31049		
BPG0135-SCV4	QC 1242 SCV		13		6E31050		
BPG0135-CALA	QC 1248		14		6E31051		
BPG0135-SCV5	QC 1248 SCV		15		6E31052		
BPG0135-CALB	QC 1254		16		6E31053		
BPG0135-SCV6	QC 1254 SCV		17		6E31054		
BPG0135-CALC	QC 1262		18		6E31055		
BPG0135-SCV7	QC 1262 SCV		19		6E31056		
BPG0135-CALD	QC 1268		20		6E31057		
BPG0135-SCV8	QC 1268 SCV		21		6E31058		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II   Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/10/6	96	6G061006-96	Hexane	8082CV		
	1	-01	1660 50		6E31038 CAL 1	
	2	-02	100		39 2	
	3	-03	500		40 3	
	4	-04	1000		41 4	
	5	-05	1600		42 5	
	6	-06	2000		43 6	
	7	-07	1000SS		44 SCV1	
	8	-08	1221		45 CAL7	
	9	-09	1221 SS		46 SCV 2	
	10	-10	1232		47 CAL8	
	11	-11	1232 SS		48 SCV3	
	12	-12	1242		49 CAL9	
	13	-13	1242 SS		50 SCV4	
	14	-14	1248		51 CALA	
	15	-15	1248 SS		52 SCV 5	
	16	-16	1254		53 CALB	
	17	-17	1254 SS		54 SCV 6	
	18	-18	1262		55 CALC	
	19	-19	1262 SS		56 SCV 7	
	20	-20	1268		57 CALD	
	21	-21	1268 SS		6E310 58 SCV8	
	22	-22	Sur QC		6F10028 (10x)	
	23	-23	Sur QC		78 (10x)	
	24	-24	Sur QC		77 (10x)	
	25	-25	BF81008-BLK1			
	26	-26	-BS1			
	27	-27	-BSD1			
	28	-28	06151-15			
6/10/06	29	6G061006-29	-15MS			DBB

CONTROL NUMBER 60.0031-0603A   PAGE________

Method : Q:\SVOA\GC5_GG\METHODS\8082CV.M
Title :
Last Update : Mon Jun 12 11:46:17 2006
Response via : Initial Calibration

Calibration Files
500 =003F0201.D 2000 =006F0201.D 50 =001F0201.D
100 =002F0201.D 1000 =004F0201.D 1600 =005F0201.D

	Compound	500	2000	50	100	1000	1600	Avg	%RSD
1)	S Tetrachloro-m-xylen	55.6	47.1	55.0	59.7	51.4	48.3	52.8 E3	9.12
2)	LM1 AR1016 (1)	1.2	0.9	1.4	1.3	1.1	1.0	1.1 E3	15.46
3)	LM1 AR1016 (2)	2.1	1.6	2.5	2.6	1.8	1.6	2.0 E3	21.18
4)	LM1 AR1016 (3)	3.9	3.0	4.7	4.8	3.4	3.2	3.8 E3	19.77
5)	LM1 AR1016 (4)	1.1	0.9	1.1	1.2	1.0	0.9	1.0 E3	13.46
6)	LM1 AR1016 (5)	908.1	767.3	1066.3	1059.5	838.0	803.3	907.1	14.26
7)	LM2 AR1260 (1)	2.8	2.1	3.5	3.4	2.4	2.2	2.7 E3	21.92
8)	LM2 AR1260 (2)	5.9	4.8	7.0	7.4	5.3	5.0	5.9 E3	18.06
9)	LM2 AR1260 (3)	2.1	1.8	2.3	2.4	1.9	1.8	2.1 E3	13.80
10)	LM2 AR1260 (4)	855.3	762.2	903.8	913.0	786.9	772.8	832.3	8.09
11)	LM2 AR1260 (5)	1.5	1.3	1.6	1.7	1.4	1.3	1.5 E3	11.21
12)	S Decachlorobiphenyl	49.6	38.4	70.5	63.5	43.6	39.4	50.8 E3	26.18

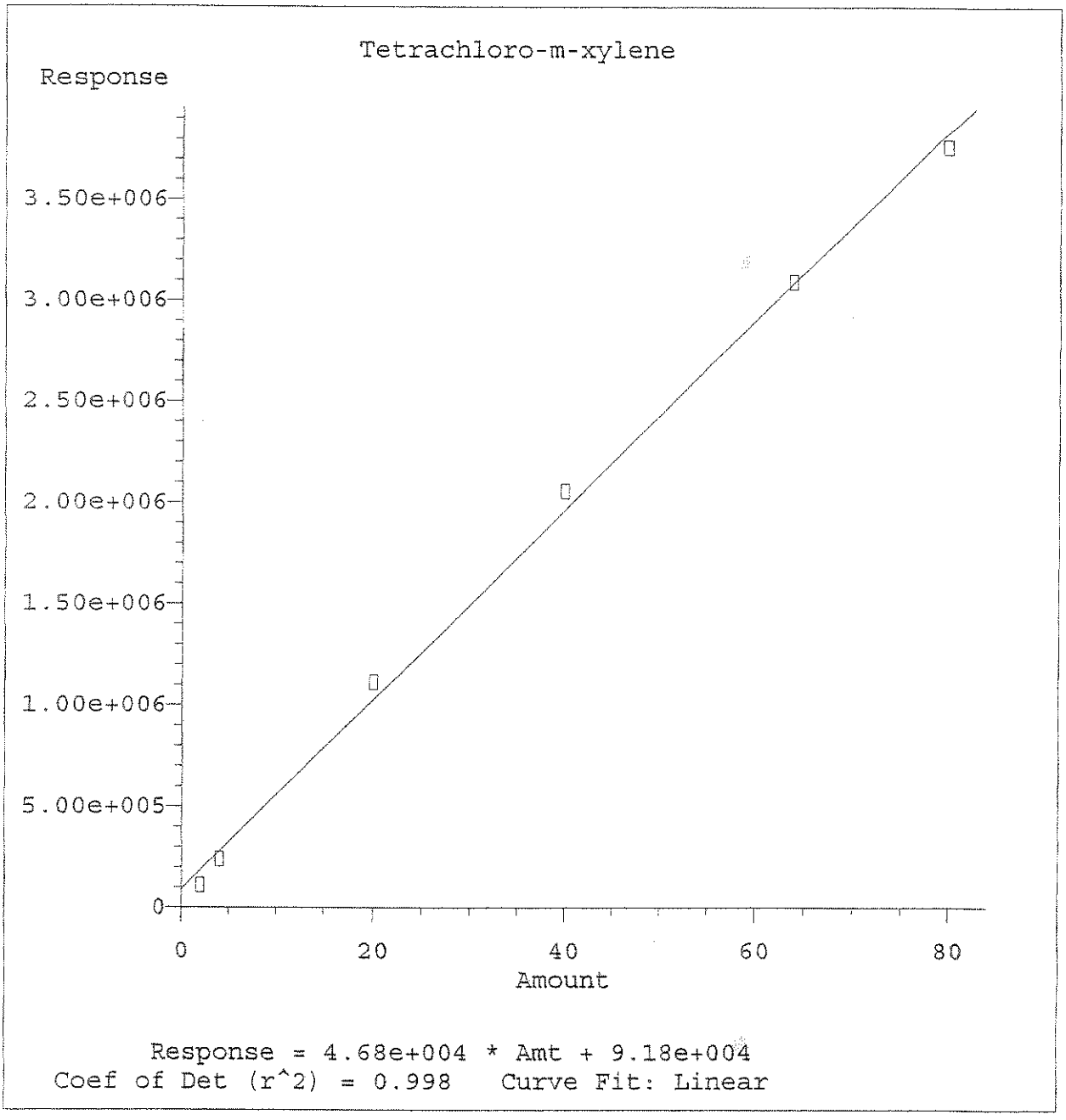
Used Linear Curve

Signal #2 Calibration Files
500 =003R0201.D 2000 =006R0201.D 50 =001R0201.D
100 =002R0201.D 1000 =002R0201.D 1600 =005R0201.D

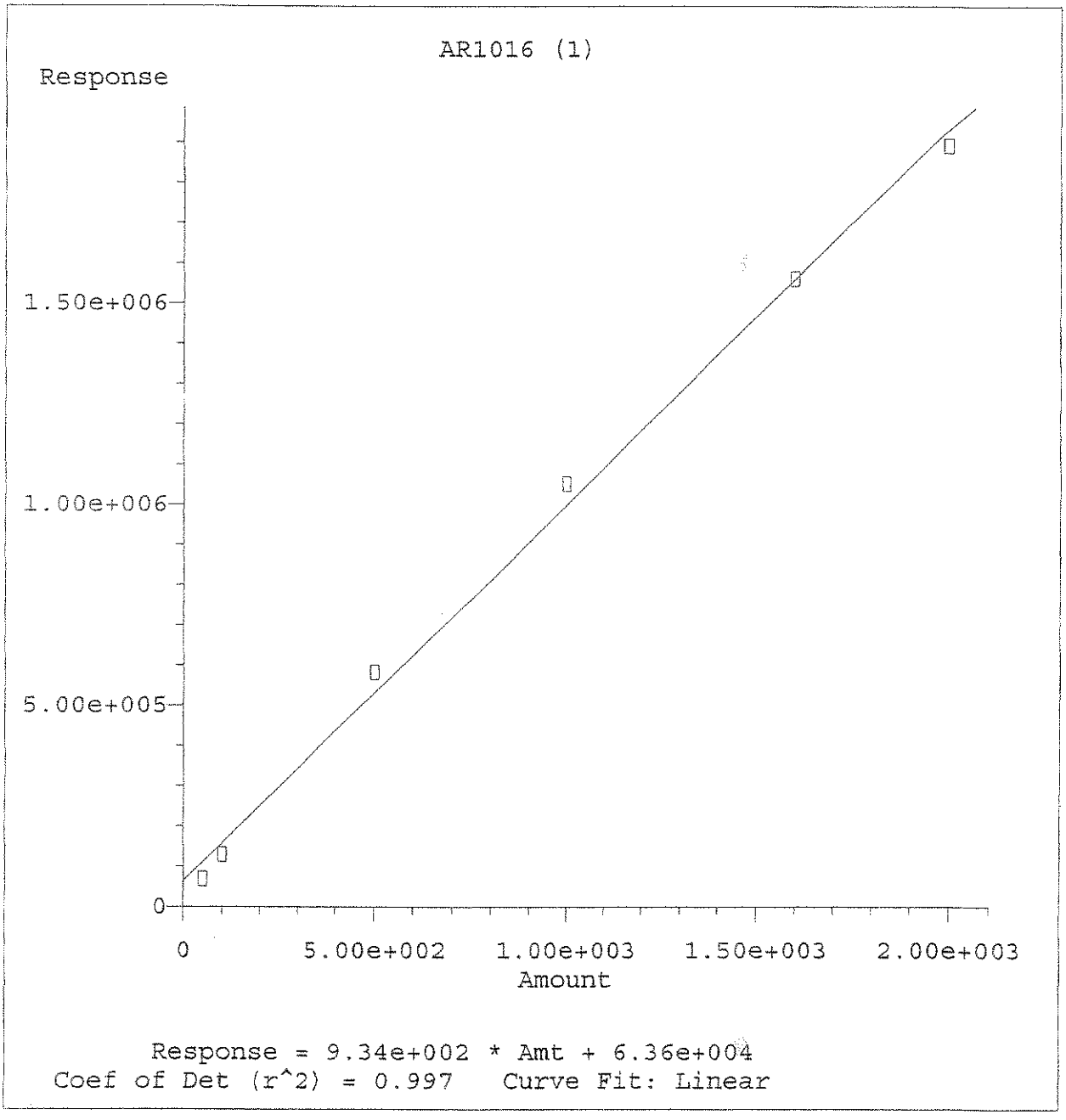
	Compound	500	2000	50	100	1000	1600	Avg	%RSD
1)	S Tetrachloro-m-xylen	46.7	43.7	46.5	49.2	46.3	44.5	46.1 E3	4.20
2)	LM1 AR1016 (1)	1.2	1.0	1.4	1.3	1.1	1.0	1.1 E3	14.67
3)	LM1 AR1016 (2)	2.0	1.6	2.3	2.5	1.8	1.7	2.0 E3	17.55
4)	LM1 AR1016 (3)	3.8	3.1	4.2	4.5	3.4	3.2	3.7 E3	15.54
5)	LM1 AR1016 (4)	1.3	1.2	1.3	1.5	1.3	1.2	1.3 E3	8.47
6)	LM1 AR1016 (5)	1.1	0.9	1.3	1.9	1.0	0.9	1.2 E3	30.30
7)	LM2 AR1260 (1)	2.6	2.1	3.0	3.2	2.4	2.2	2.6 E3	16.56
8)	LM2 AR1260 (2)	2.0	1.7	2.1	2.2	1.9	1.8	2.0 E3	10.59
9)	LM2 AR1260 (3)	4.0	3.5	4.1	4.3	3.7	3.6	3.9 E3	8.23
10)	LM2 AR1260 (4)	2.6	2.3	2.7	2.8	2.3	2.2	2.5 E3	10.07
11)	LM2 AR1260 (5)	986.4	973.6	937.4	1014.8	967.8	967.9	974.6	2.61
12)	S Decachlorobiphenyl	38.7	32.8	46.8	44.3	35.9	33.4	38.6 E3	15.01

Used Linear Curve

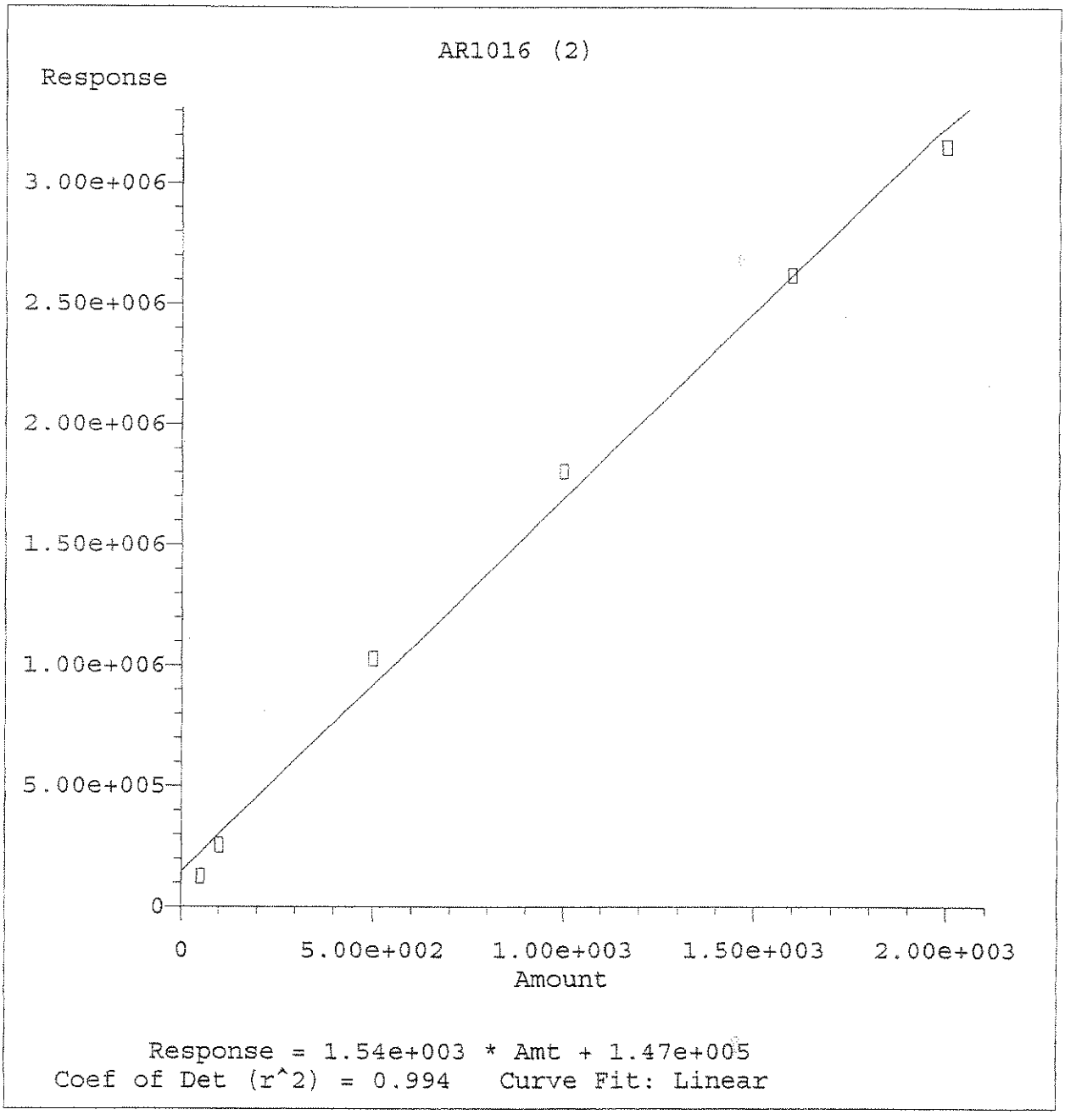
#) = Out of Range



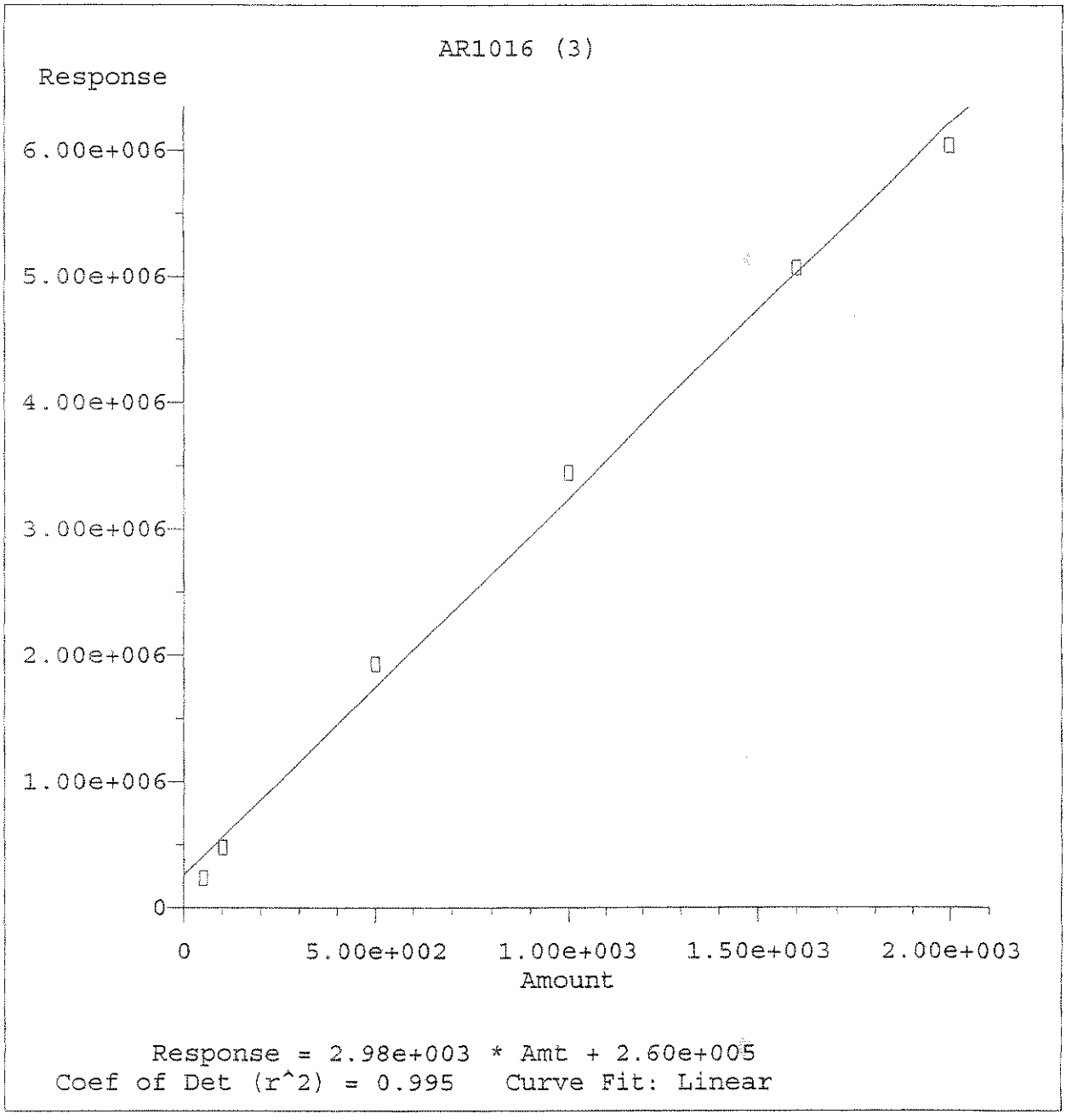
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



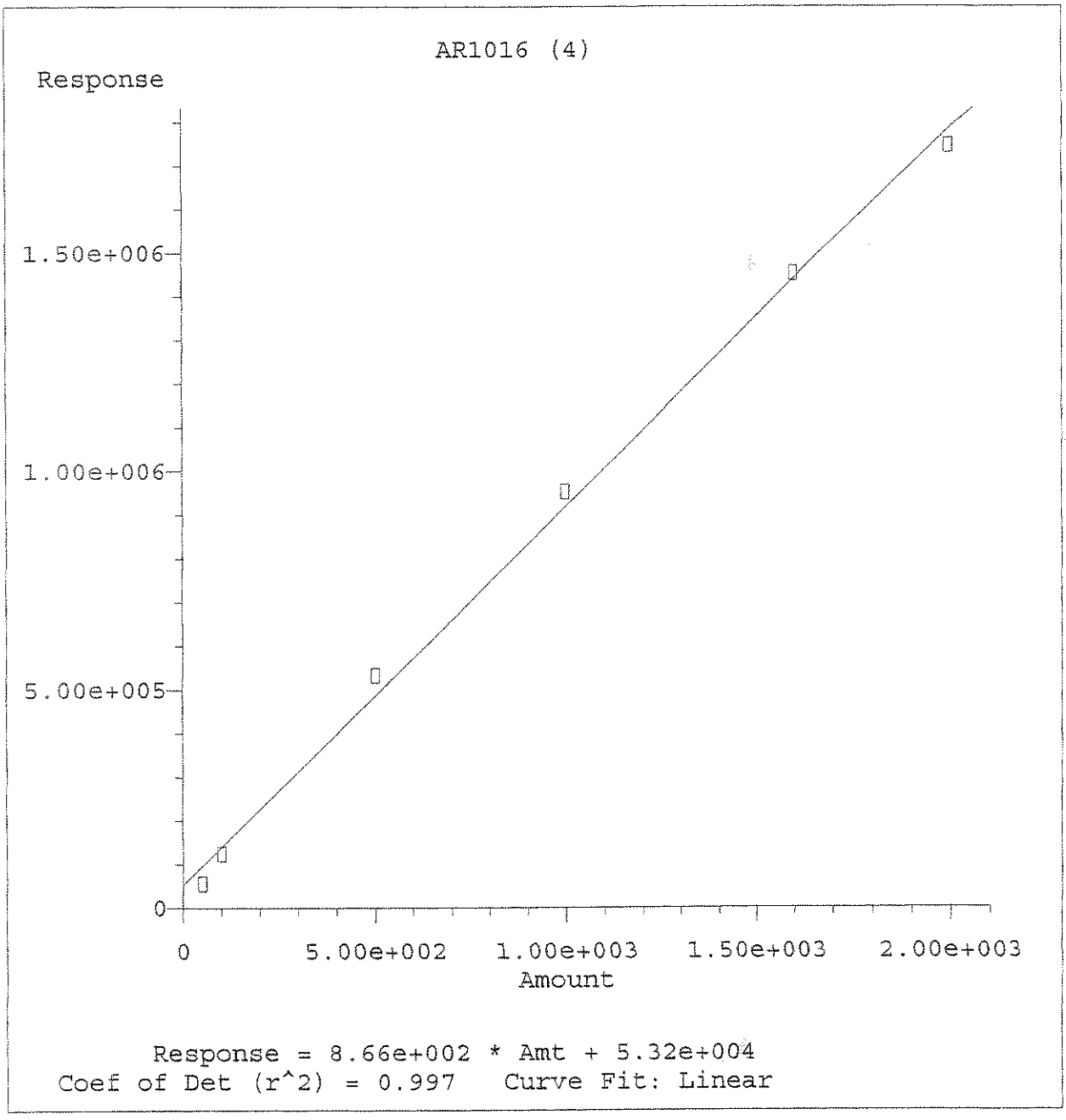
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



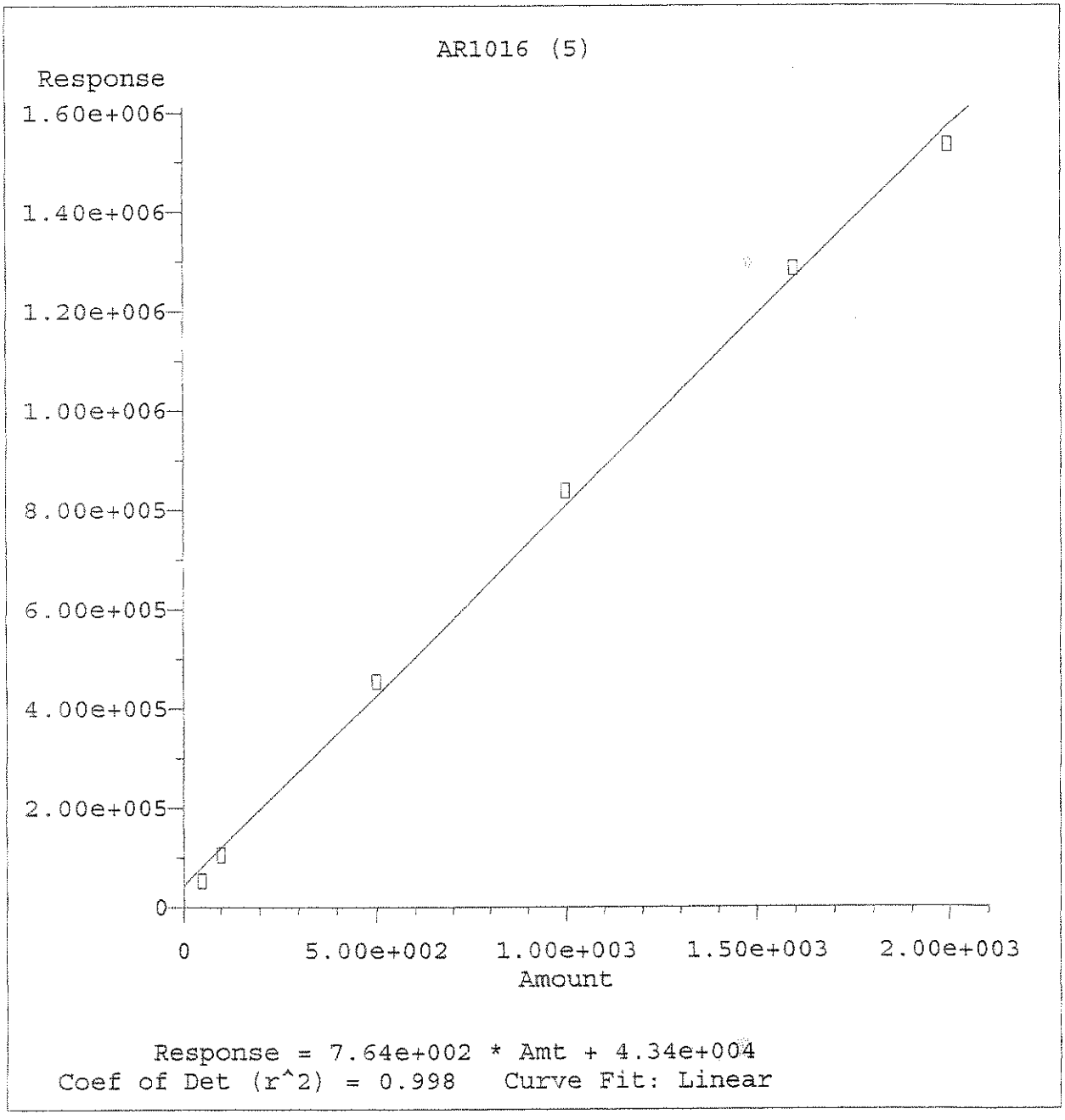
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



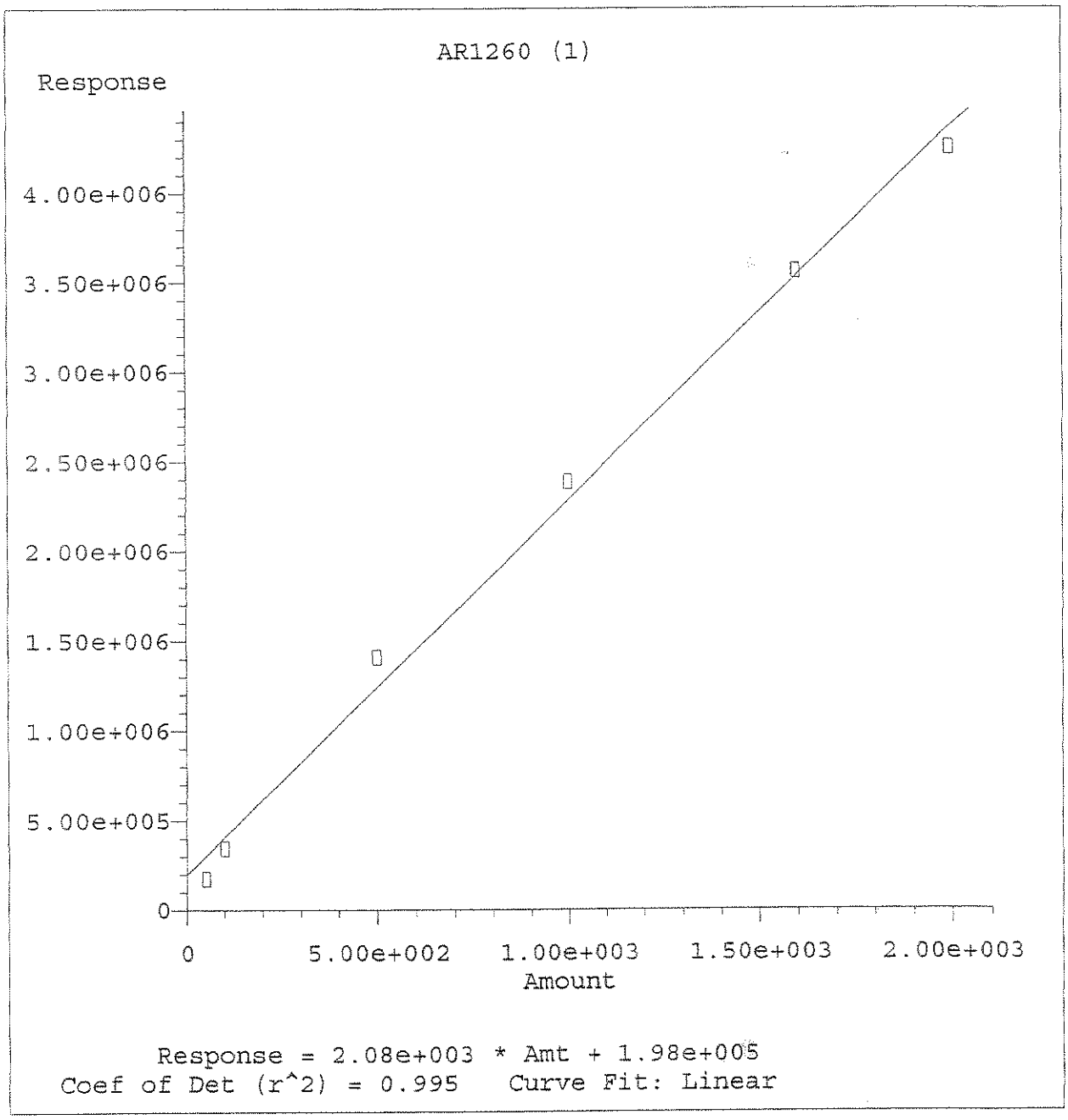
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



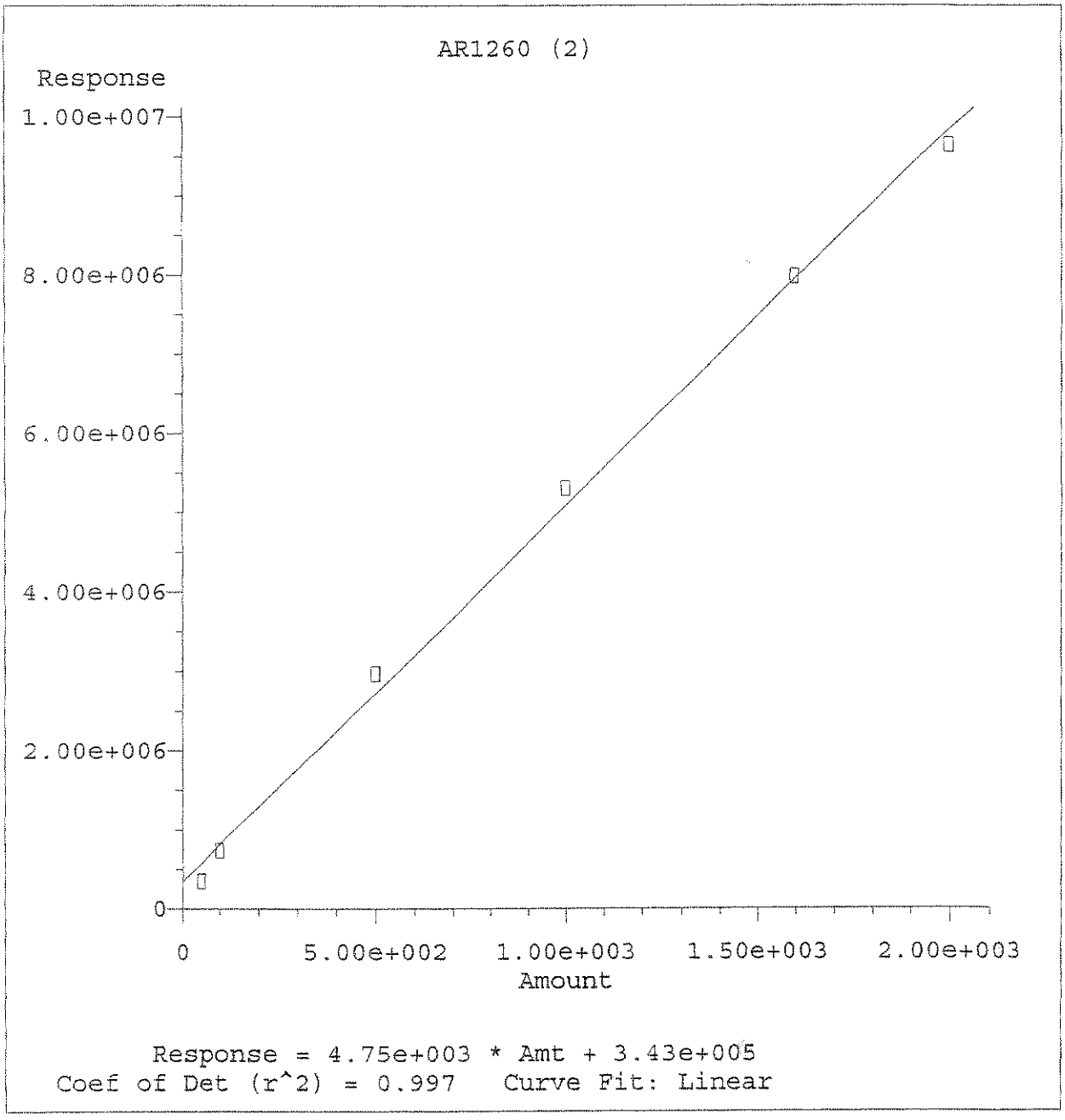
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



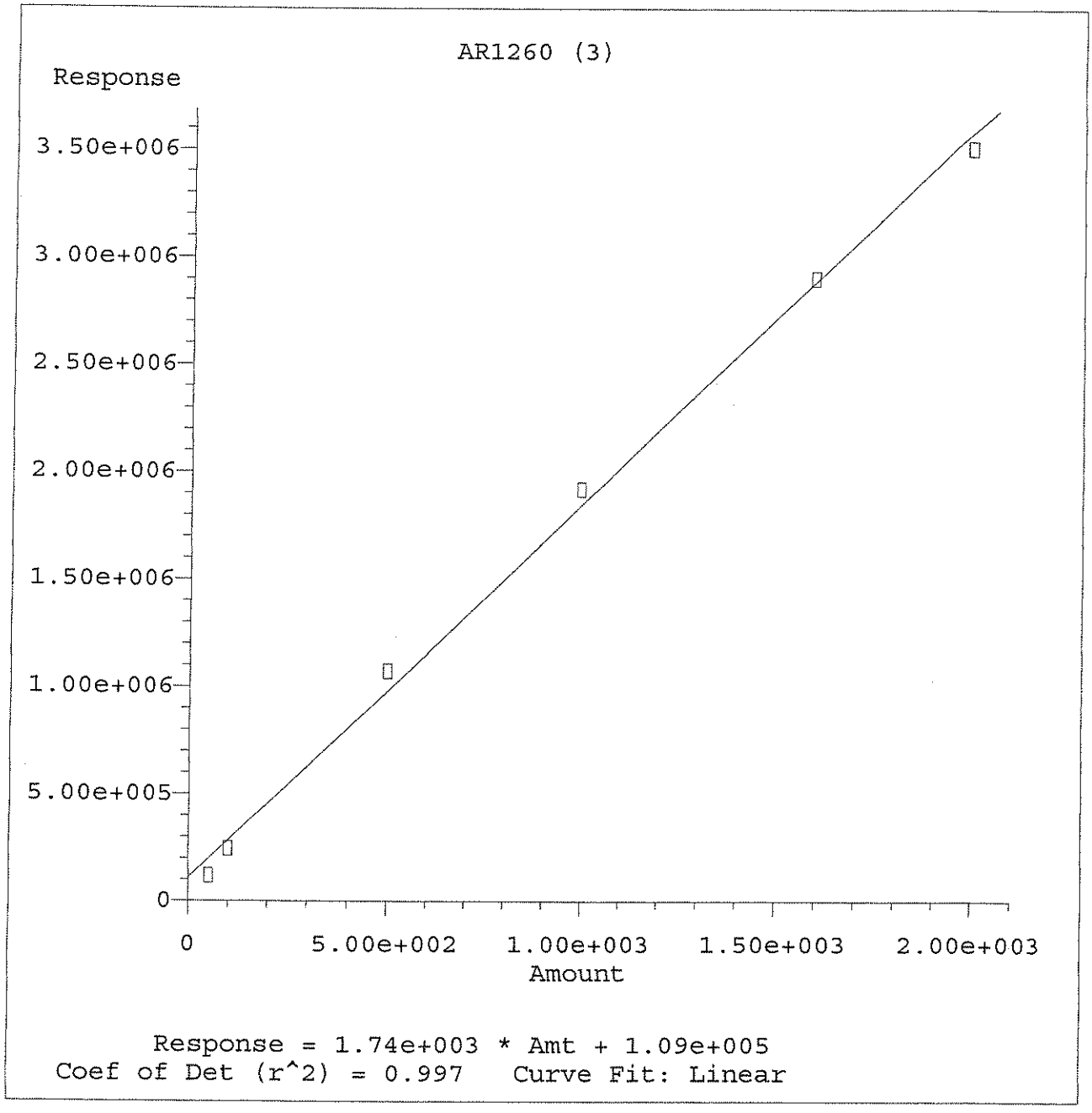
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



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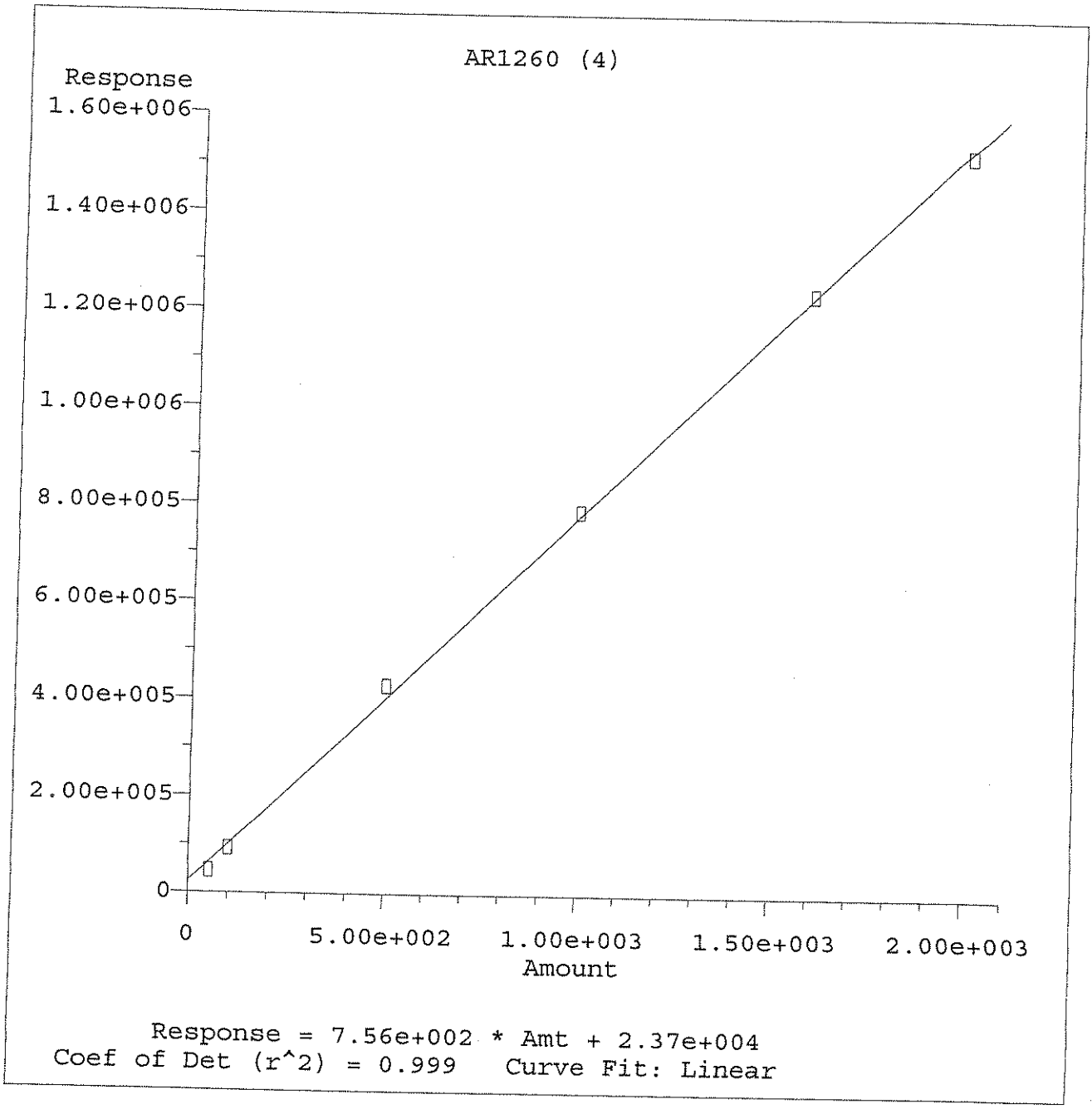
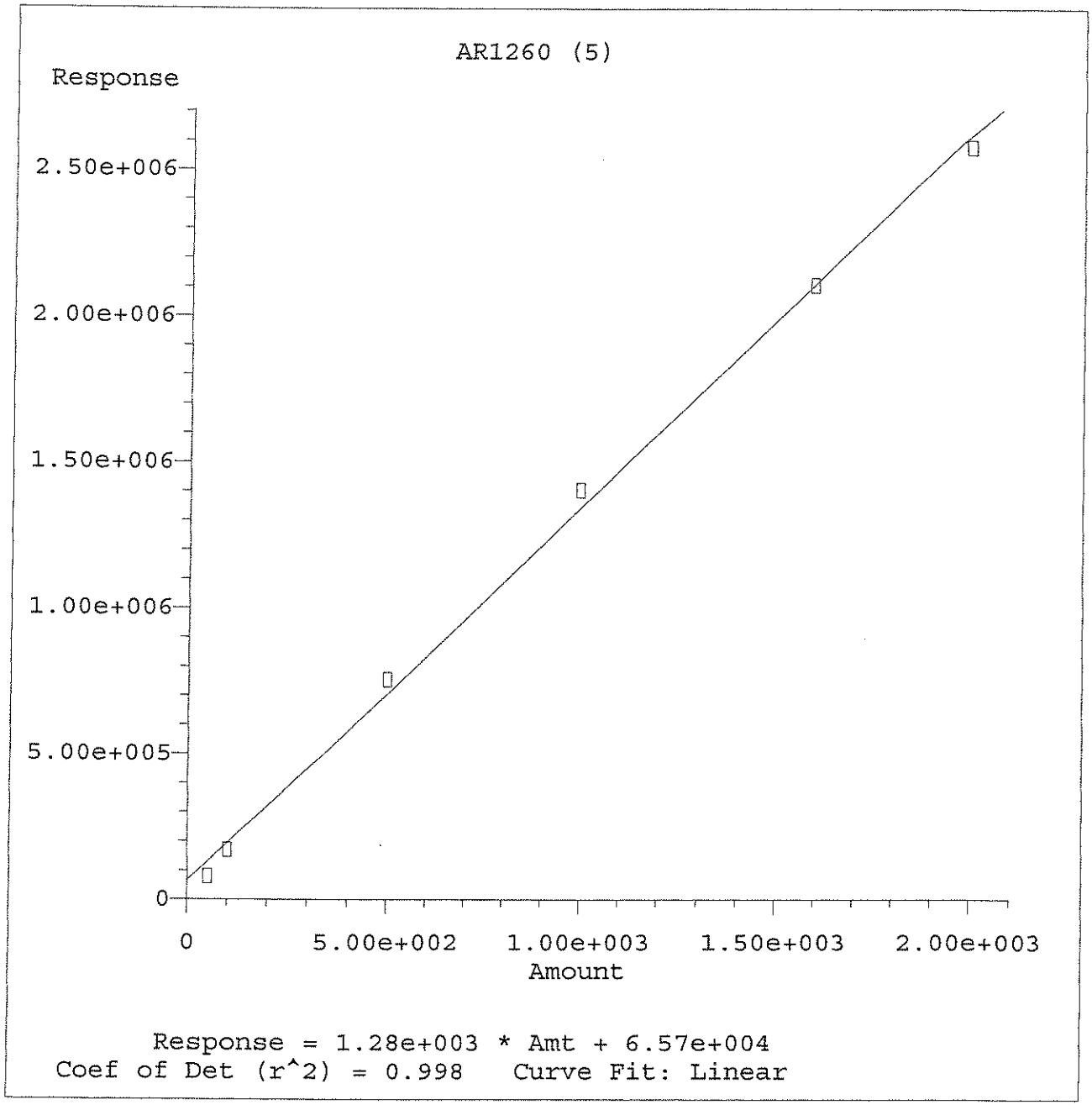
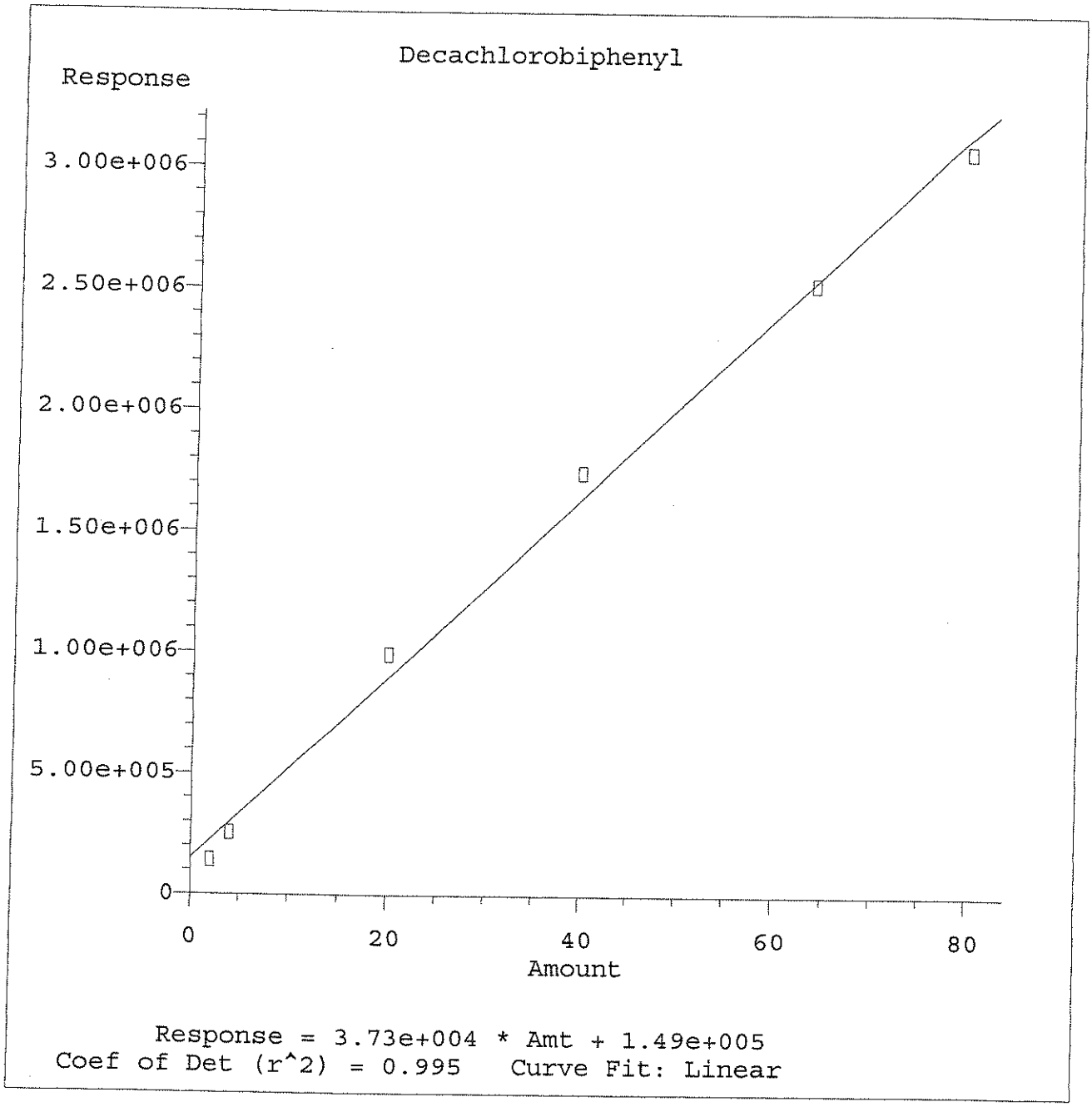
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



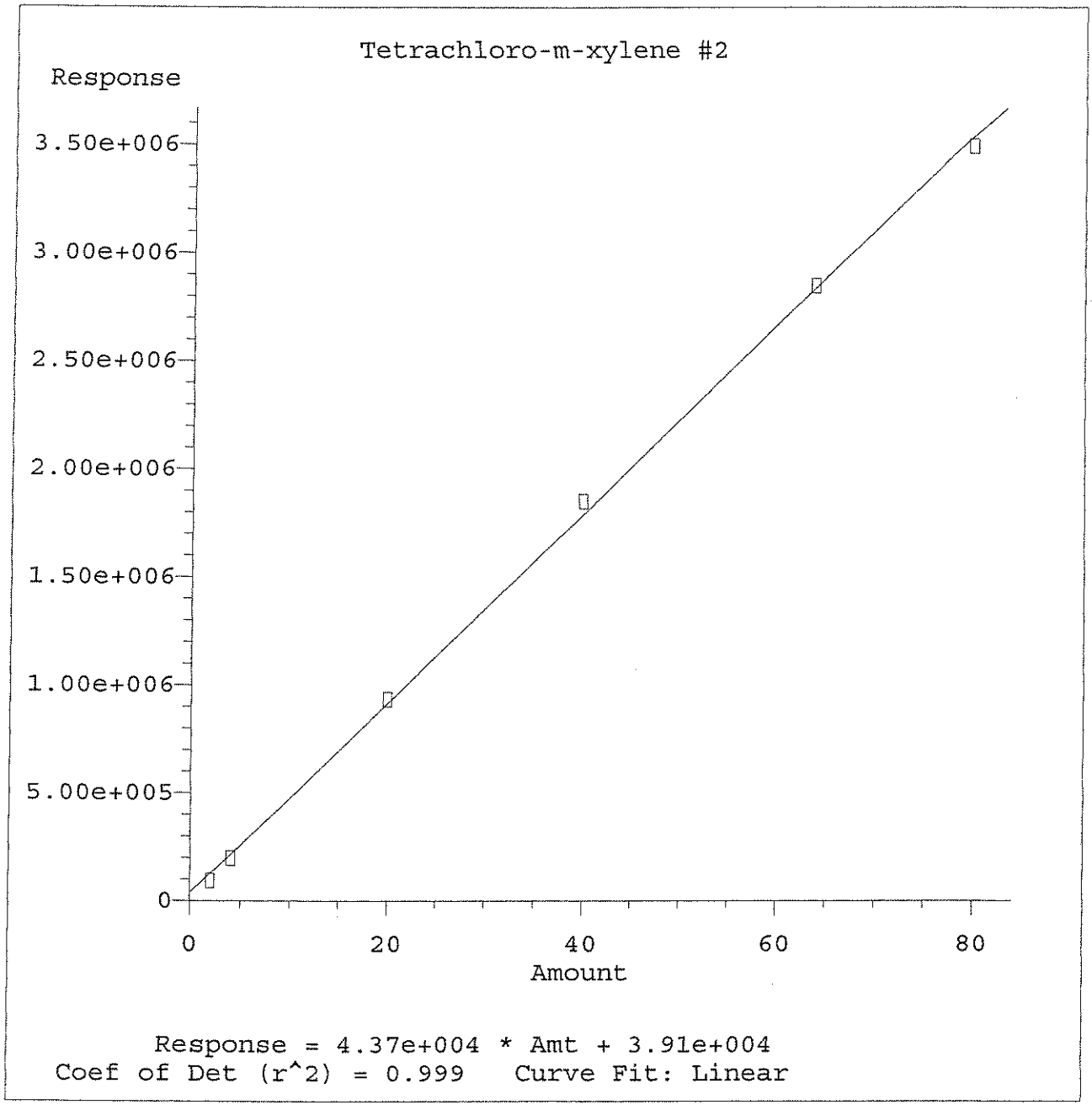
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



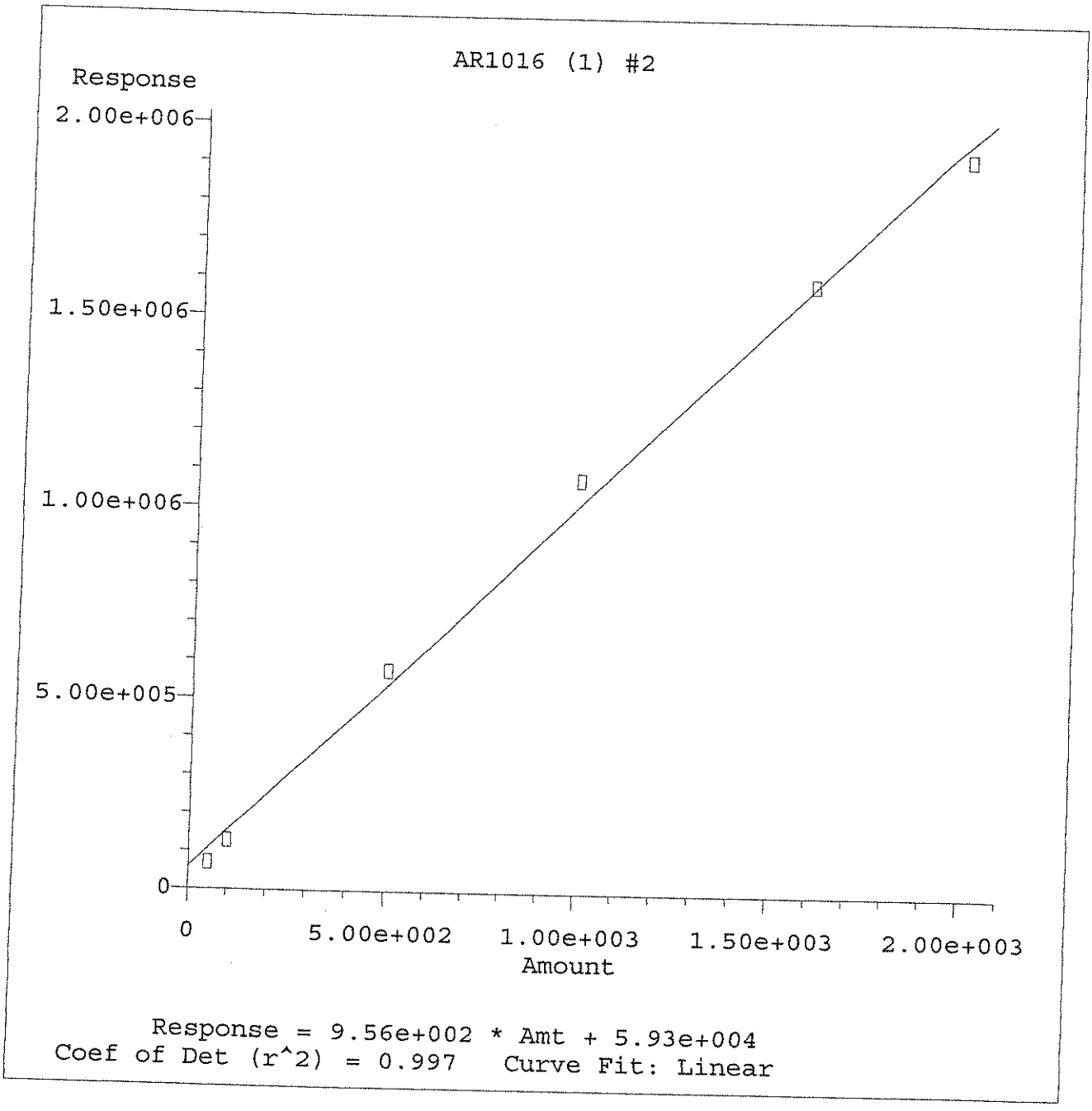
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



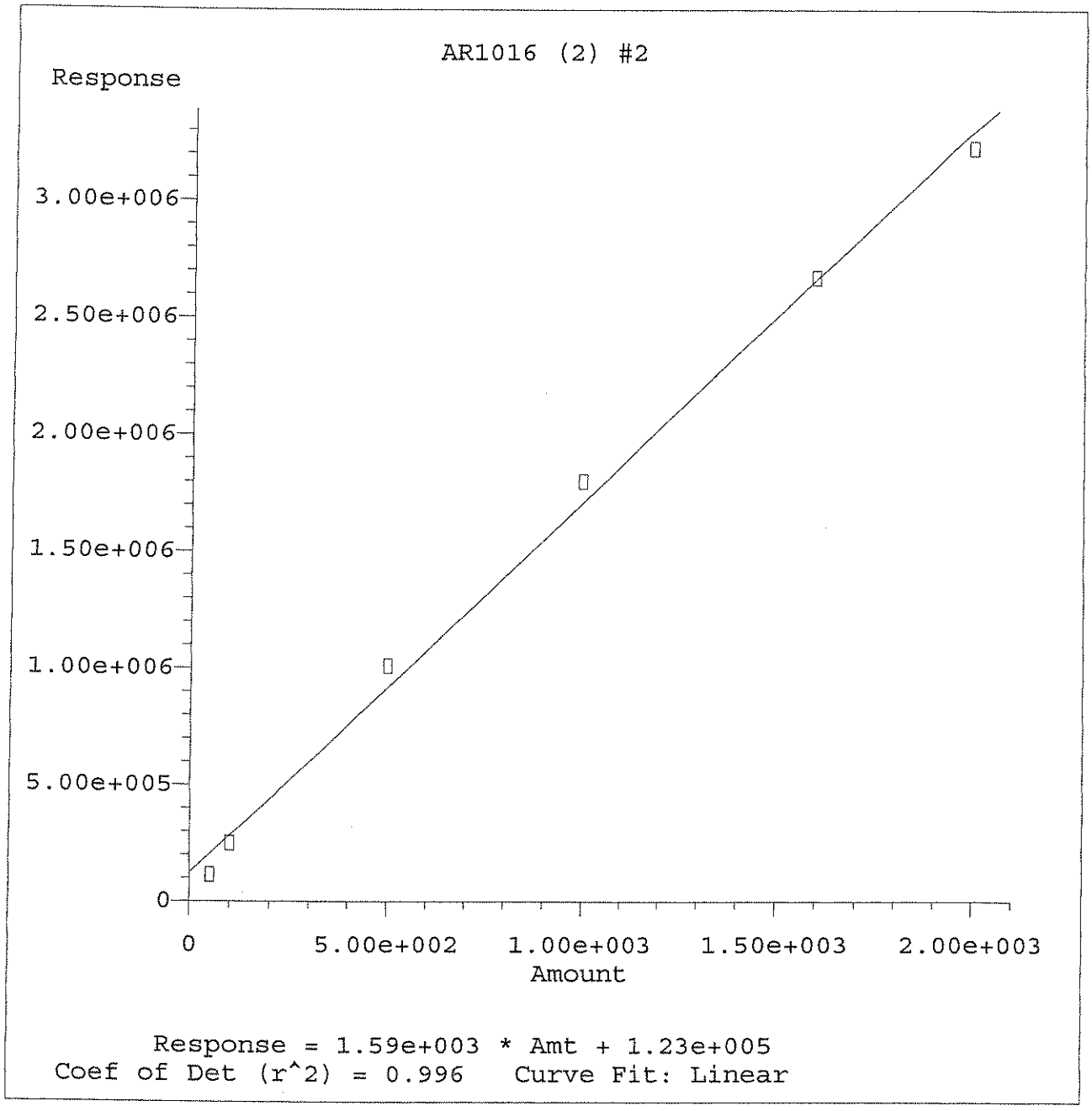
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



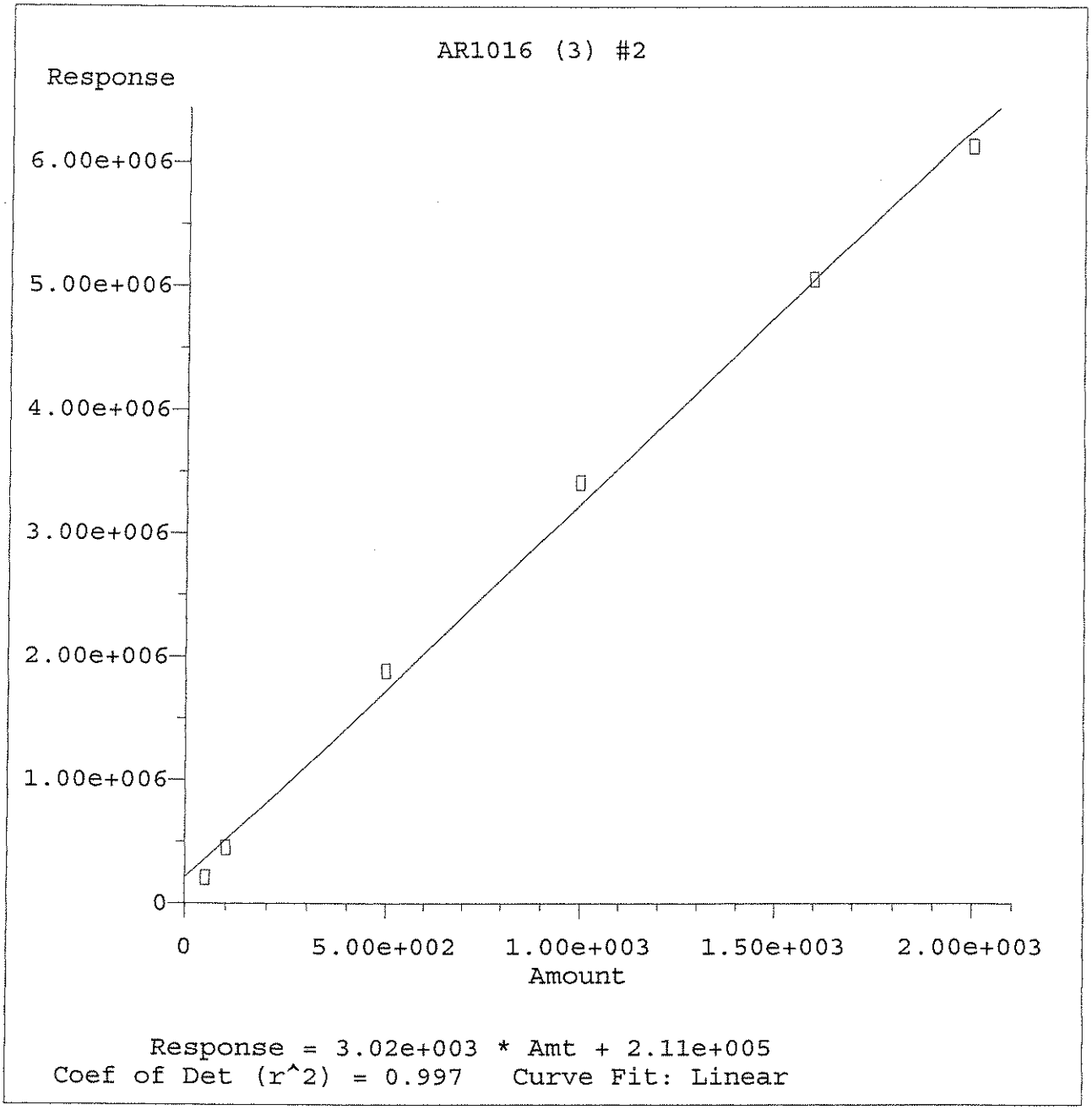
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



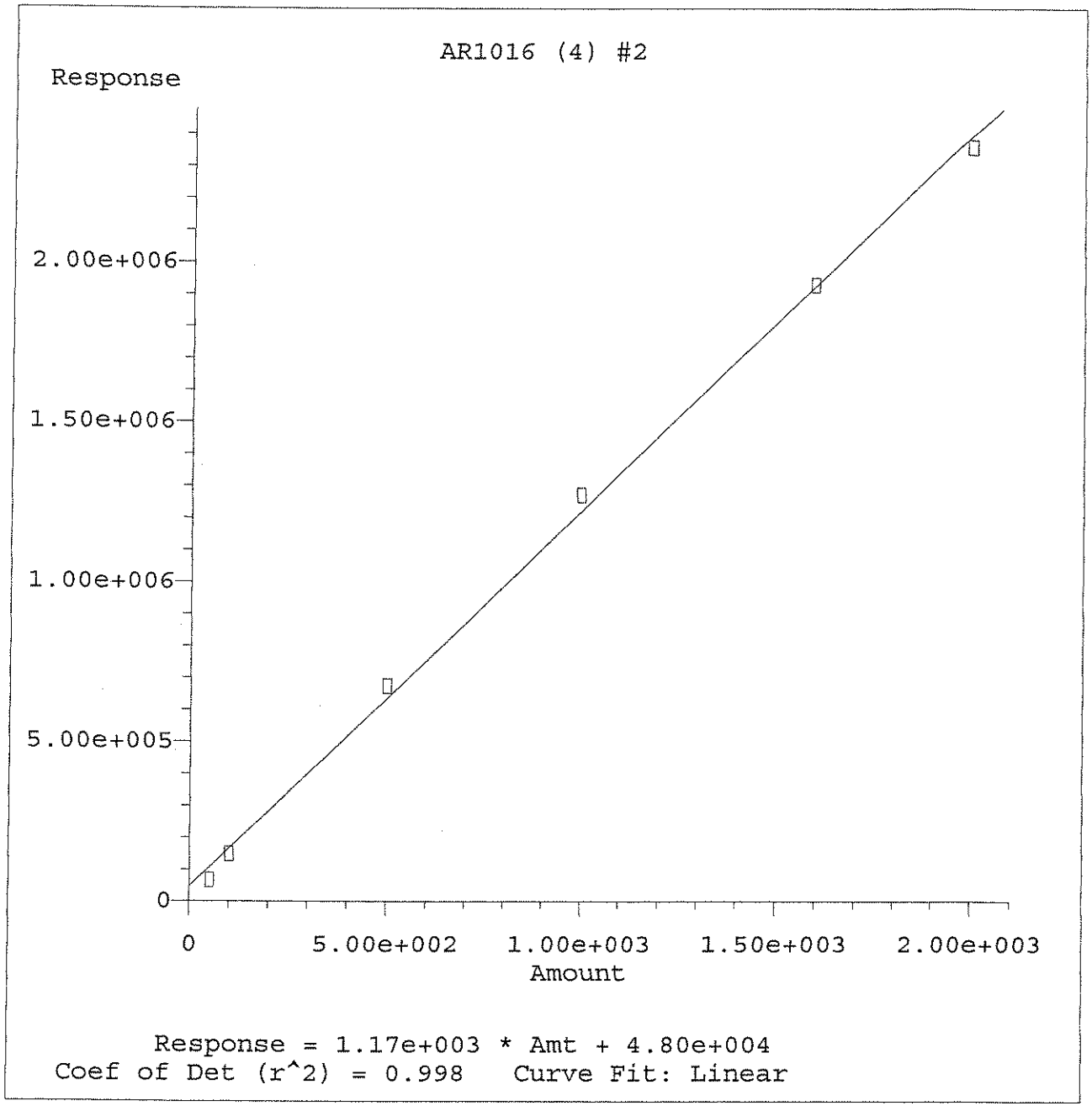
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



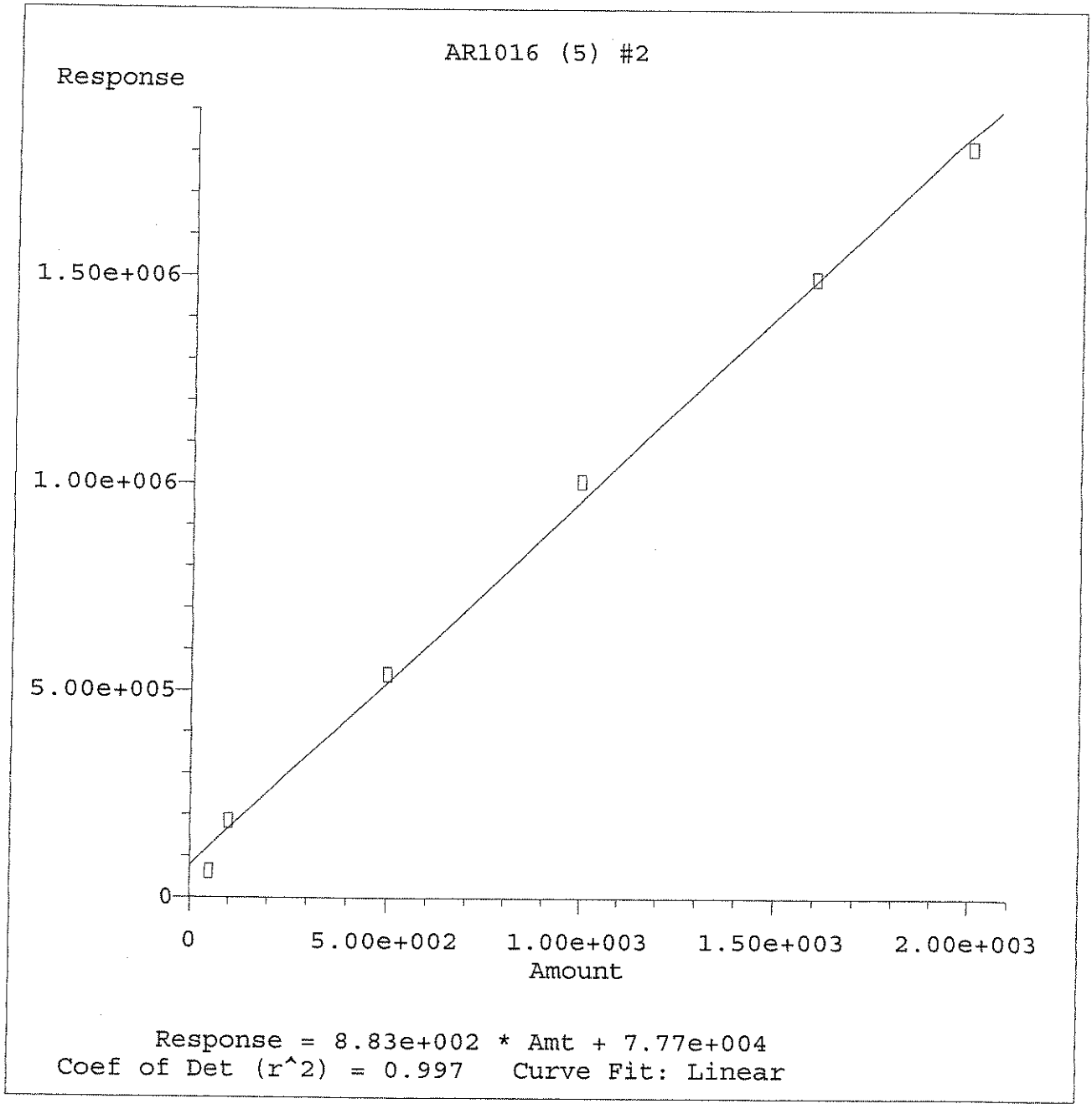
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



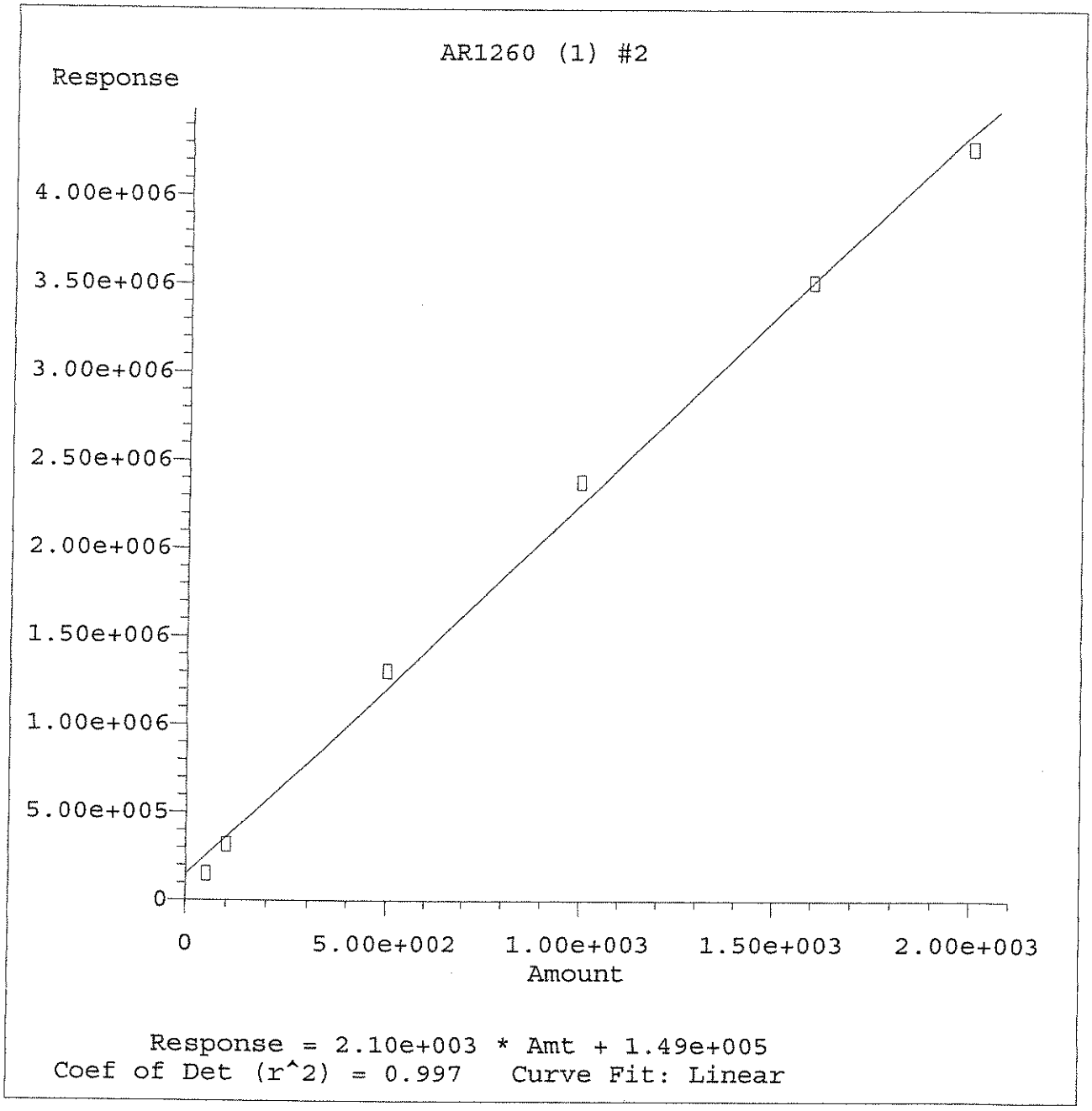
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



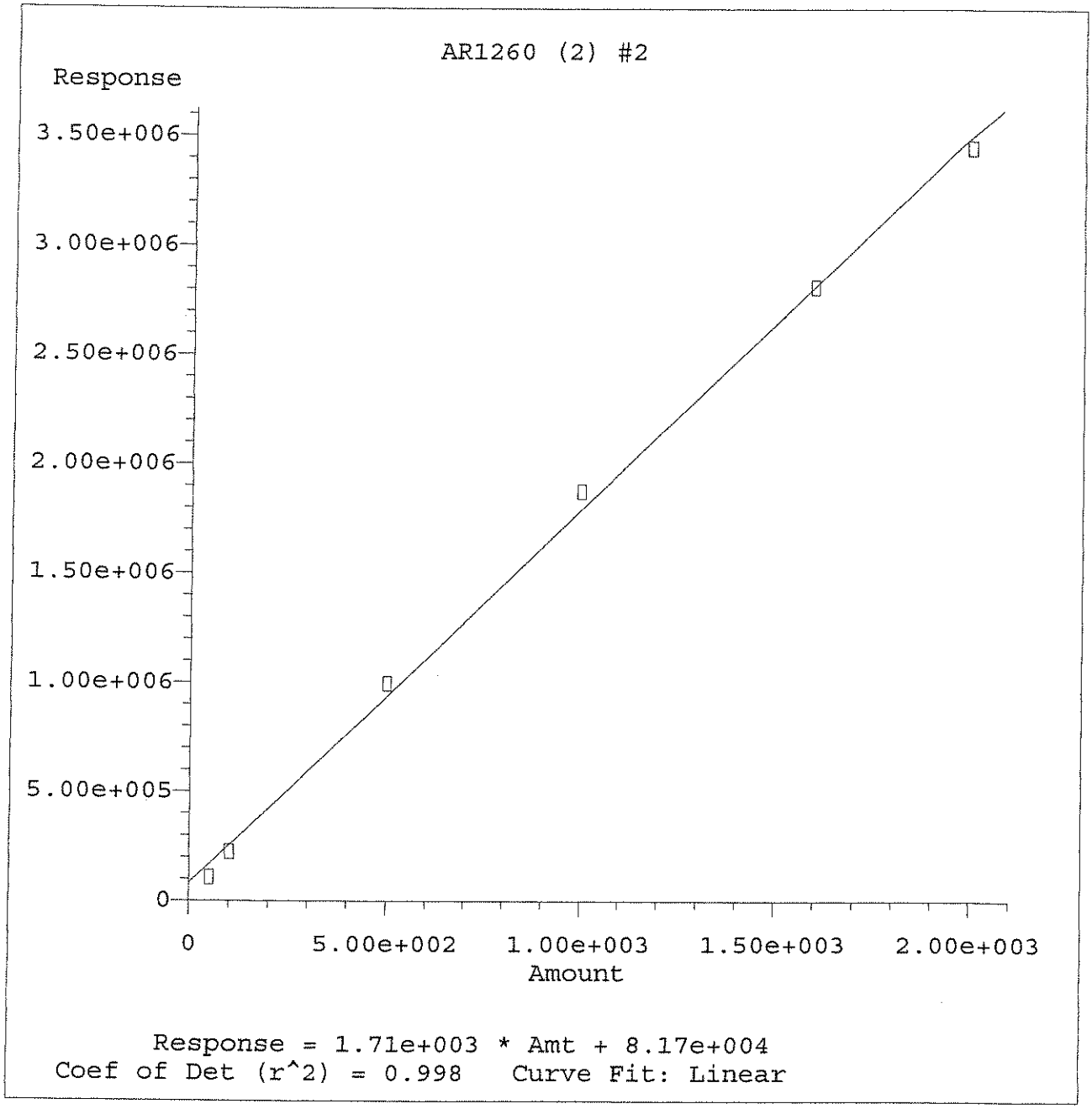
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



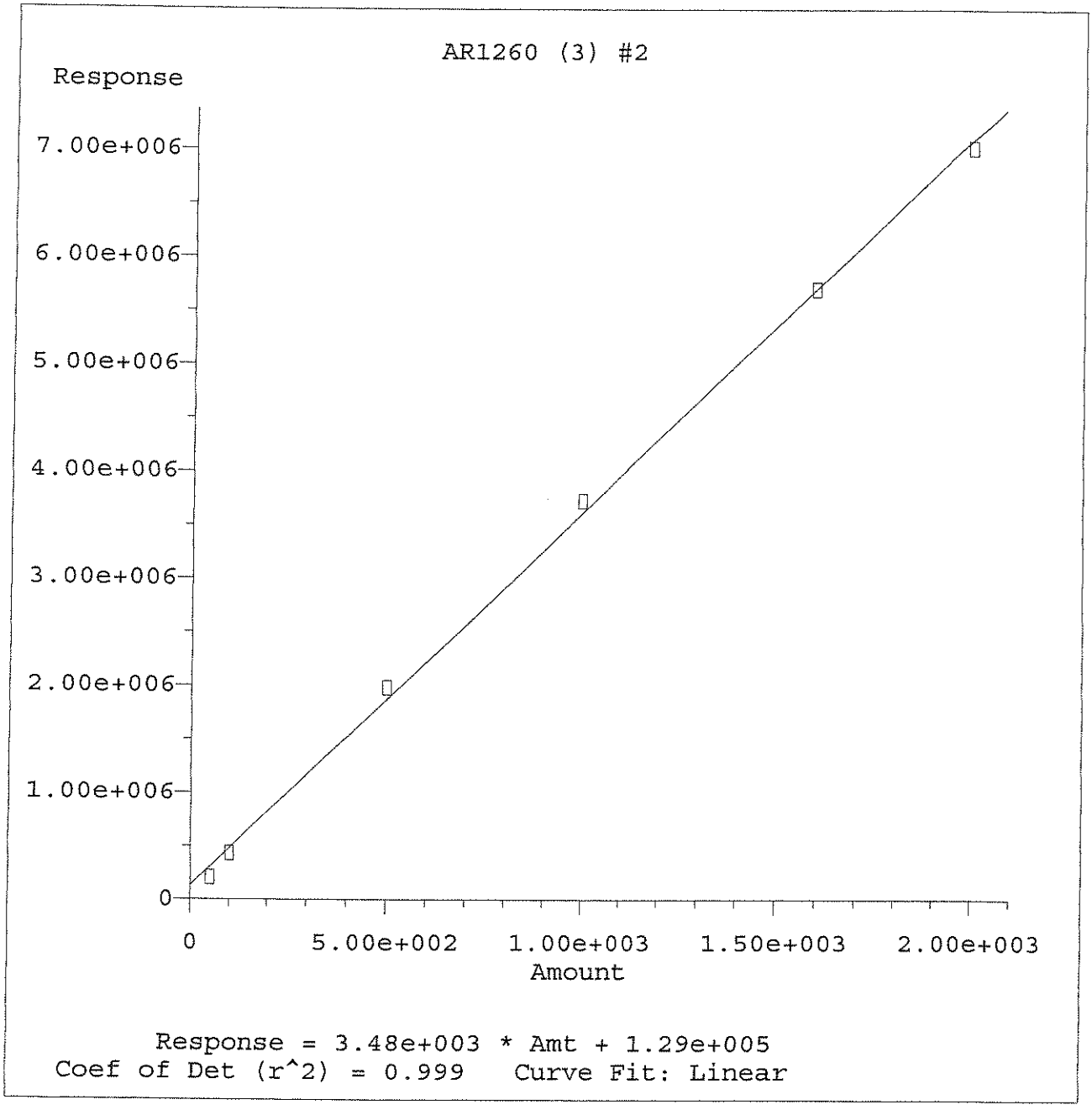
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



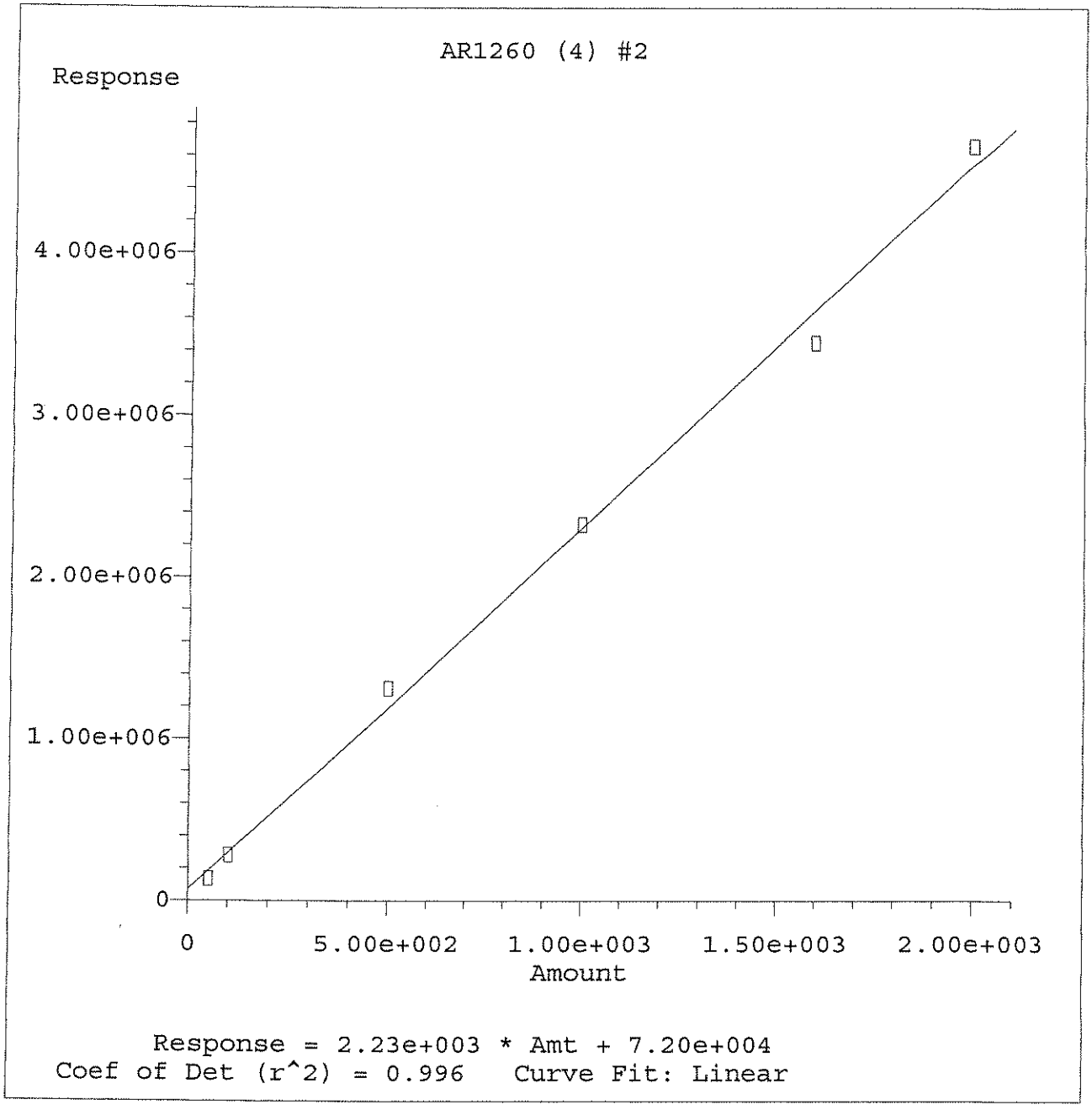
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



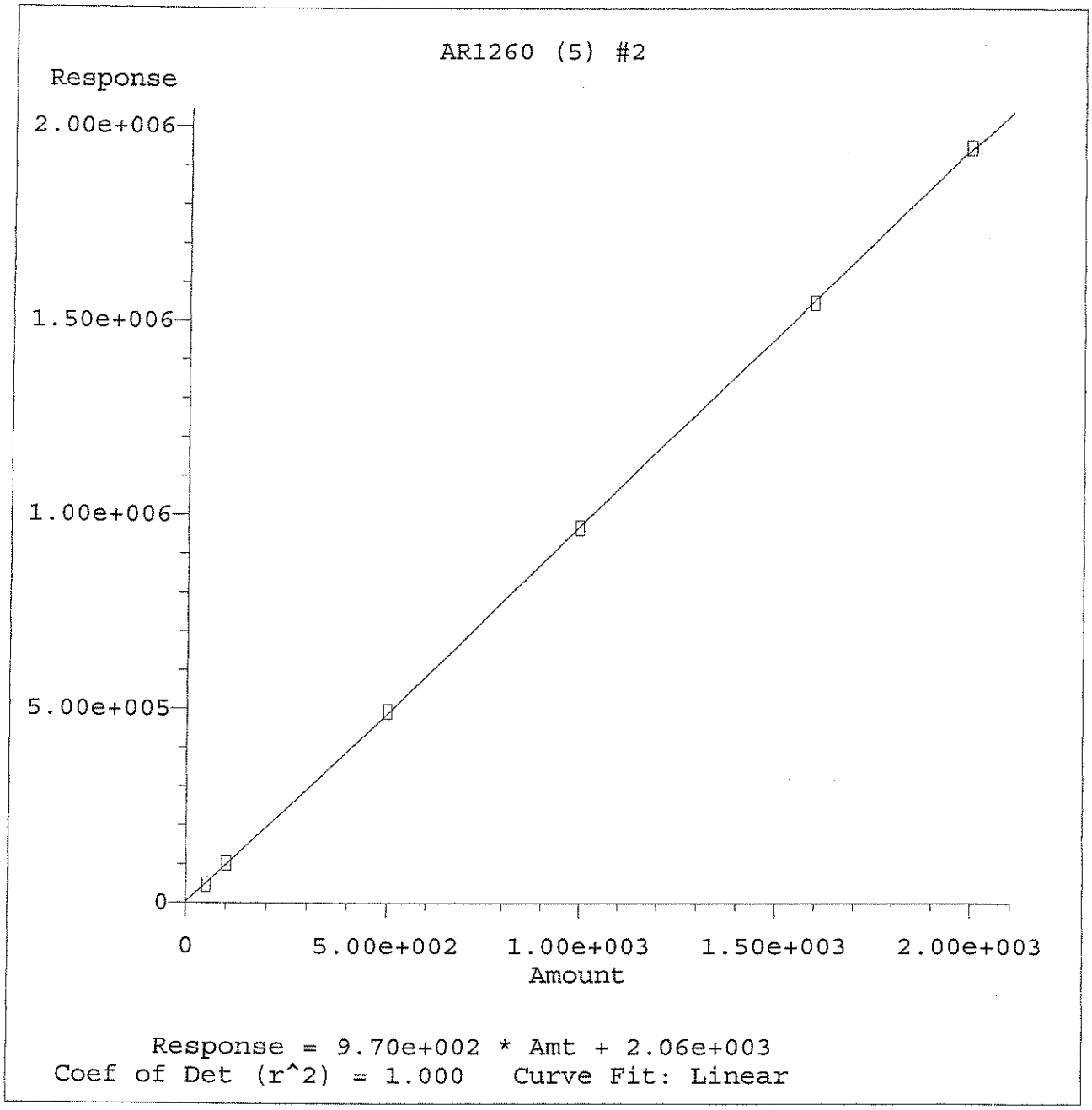
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



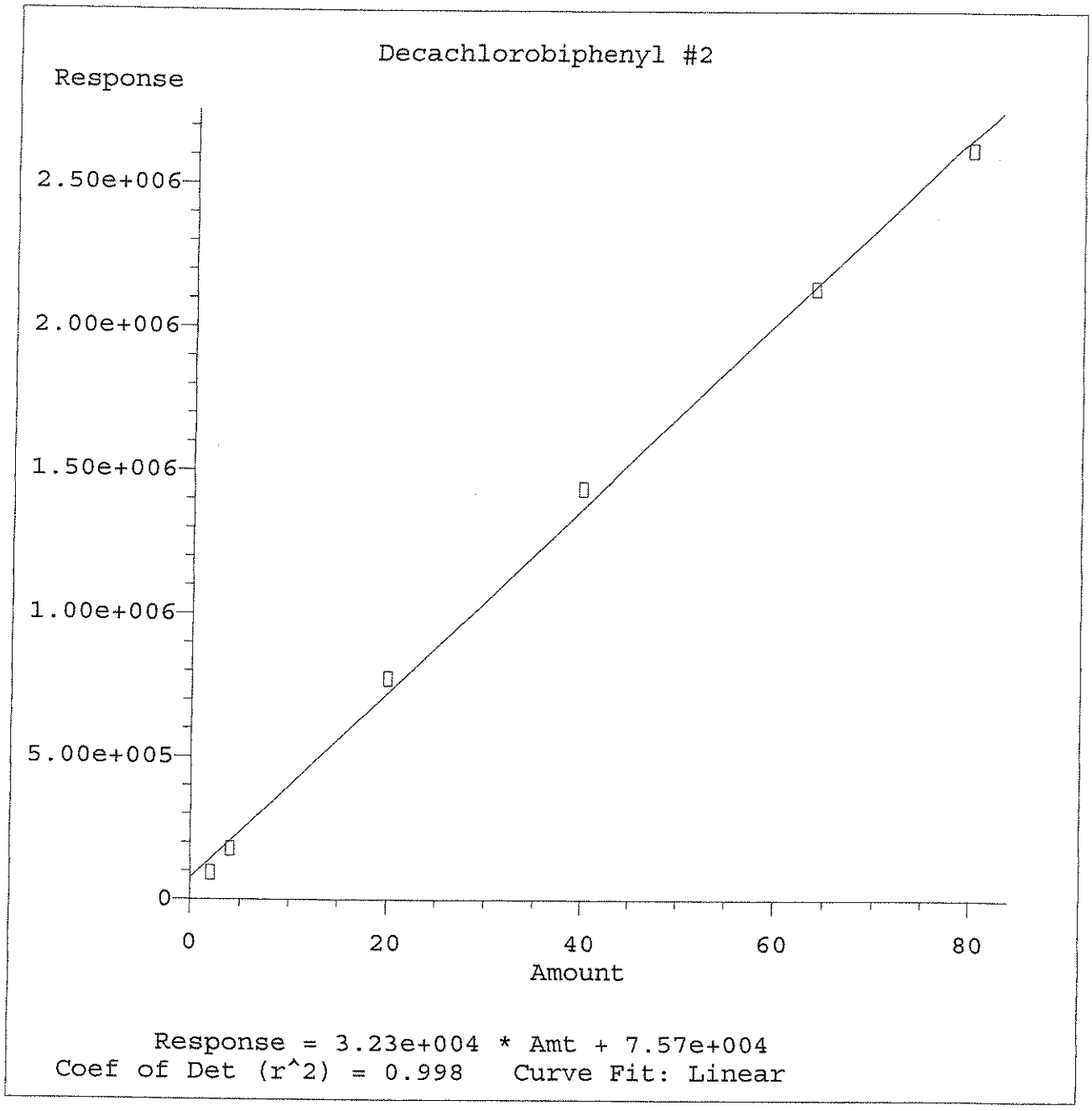
Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006



Method Name: Q:\SVOA\GC5_GG\METHODS\8082CV.M
Calibration Table Last Updated: Mon Jun 12 11:46:17 2006

ANALYSIS SEQUENCE

BPG0171

Instrument: SVOAGC5

Calibnration ID: 0607025

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0171-CCV1	QC		1		6F09049		
BF60923-BLK1	QC		2				
BF60923-BS1	QC		3				
BF60923-BSD1	QC		4				
BPG0171-CCV2	QC		5		6F09049		
BPG0171-CCV3	QC		6		6F09050		
BPG0171-CCV4	QC		7		6F09052		
0606113-01	: 8082/3541 CLP - Army ppb	F	8				MACTEC Engineering & Consulting, In
0606113-02	: 8082/3541 CLP - Army ppb	F	9				MACTEC Engineering & Consulting, In
0606113-03	: 8082/3541 CLP - Army ppb	F	10				MACTEC Engineering & Consulting, In
0606113-04	: 8082/3541 CLP - Army ppb	F	11				MACTEC Engineering & Consulting, In
0606113-05	: 8082/3541 CLP - Army ppb	F	12				MACTEC Engineering & Consulting, In
0606113-06	: 8082/3541 CLP - Army ppb	F	13				MACTEC Engineering & Consulting, In
0606113-07	: 8082/3541 CLP - Army ppb	F	14				MACTEC Engineering & Consulting, In
0606113-08	: 8082/3541 CLP - Army ppb	F	15				MACTEC Engineering & Consulting, In
0606113-09	: 8082/3541 CLP - Army ppb	F	16				MACTEC Engineering & Consulting, In
0606113-10	: 8082/3541 CLP - Army ppb	F	17				MACTEC Engineering & Consulting, In
0606113-11	: 8082/3541 CLP - Army ppb	F	18				MACTEC Engineering & Consulting, In
0606113-12	: 8082/3541 CLP - Army ppb	F	19				MACTEC Engineering & Consulting, In
0606113-13	: 8082/3541 CLP - Army ppb	F	20				MACTEC Engineering & Consulting, In
0606113-14	: 8082/3541 CLP - Army ppb	F	21				MACTEC Engineering & Consulting, In
0606113-15	: 8082/3541 CLP - Army ppb	F	22				MACTEC Engineering & Consulting, In
0606113-16	: 8082/3541 CLP - Army ppb	F	23				MACTEC Engineering & Consulting, In
0606113-17	: 8082/3541 CLP - Army ppb	F	24				MACTEC Engineering & Consulting, In
BF60923-MS1	QC		25				
BF60923-MSD1	QC		26				
BPG0171-CCV5	QC		27		6F09049		
BPG0171-CCV6	QC		28		6F09050		
BPG0171-CCV7	QC		29		6F09052		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II — Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
			~~0606151-16900~~	~~Z4/690~~		
6/10/16	30	CG061066-30	BF60931-ccv	8082CV		
	31	-31	-8R1			[illegible]
	32	-32	-BS01			
	33	-33	0606143-01		ND	
	34	-34	-02		ND	
	35	-35	BF60922-BLK1			
	36	-36	-BS1			
	37	-37	-BSD1			
	38	-38	0606113-01			
	39	-39	-02		Skipped These	
	40	-40	-03		Not Run	
	41	-41	-04		(Were Post Extracts.)	
	96	-96	Hex			
	97	-97	1660		BF05049 CCVI Int only	
	98	-98	1242		50	
	99	-99	1248		51	
	100	-100	1254		52	
	97 ~~96~~	-97	1660		BF05 0549 06/29/16 CCVI	
	42	-42	0606113-05			
	43	-43	0606113-06			
	44	-44	-7			
	45	-45	-8			
	46	-46	-9			
	47	-47	-10		Not Run	
	48	-48	-11		Post Extracts	
	49	-49	-12			
	50	-50	13			
	51	-51	-14			
6/11/16	52	CG061066-52	-15			

CONTROL NUMBER 60.0031-0603A

PAGE________

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II **Y-Split Dual End**

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/20/6	53	G606/006-53	060613 -16	8082CV		M
	54	-54	-17		Not Run - Post Extract.	
	55	-55	060607/-01			
	56	-56	-01MS			
	57	-57	-01MSD		Post Extract	
	58	-58	-03			
	59	-59	DF60723-BLK1			
	60	-60	-BS1			
	61	-61	-BD1			
	96	-96	Hex			
	97	-97	/660		6F03499 CCV2 ND 0510	
	98	-98	7242		ND CCV3	
	99	-99	12YB		57	
	100	-100	~~12YB~~/059		52 CCV4	
	97	-97	~~12YB~~/660		6F03499	
	62	-62	~~660~~		060613-01	
	63	-63	060613-02			
	64	-64	-3		ND	
	65	-65	-4		ND	
	66	-66	-5			
	67	-67	-6			
	68	-68	-7			
	69	-69	-8			
	70	-70	-9		54	
	71	-71	-10			
	72	-72	-11			
	73	-73	-12			
	74	-74	-13		ND	
	75	-75	-14		42 RE X10	
	76	G606/006 -76	-15			M

CONTROL NUMBER 60.0031-0603A PAGE_____

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II **Y-Split Dual End**

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/10/6	77	G606166-77	0606113-76	8082CV	✓	↓
	78	-78	0606113-72		✓	
	79	-79	-1MS		✓	
	80	-80	-1MSD		✓	
6/11/6	96	-96	Hex	8082CV		↓
	97	-97	1660		✓ BF07079 CCV5 INJ 1648	
	98	-98	12YL		8CCV6	
	99	-99	12Y8		57	
	100 380	-100	12Y4		8CCV7	
6/11/6	97	G606166 -97	1660		✓ BF090 49	
6/12/6	1	G606126-01	Hex	8082 CV		↓
	2	-02	1660		✓ BF14035	
	3	-03	12YL		40	
	4	-04	12Y8		41	
↓	5	-05	12Y4		BFM 42	
	6	-06	BF60734-BS1	8082CV		↓
	7	-07	BF60801-BLK1			
	8	-08	-BS1			
	9	-09	-BSD1			
	10	-10	G606076-01		ND	
	11	-01MS1				
	12	-01MSD				
	13	-13	BF60734-BLK1			
	14	-14	-BSD1			
	15	-15	G606126-03		ND	
	16	-16	0606076-02		ND	
	17	-17	-03		ND	
	18	-18	-04		ND	
↓	19	-19	-05		ND	
6/12/6	20	G606126 -20	-06	8082CV	ND	↓

CONTROL NUMBER 60.0031-0603A PAGE_____

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG0606\GG06100A\097F0401.D Vial: 97
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG0606\GG06100A\097F0401.D\097R0401.D
Acq On : 11 Jun 06 06:27 AM Operator: [GC]7R0401.I
Sample : 1660 CC CCV Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jul 20 15:14 19106

Method : Q:\SVOA\GC5_GG\METHODS\8082CV.M
Title :
Last Update : Mon Jun 12 11:46:17 2006
Response via : Multiple Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xylen	3.64	5.24	2107805	1880277	43.111	42.125
				Recovery	=	86.22%	84.25%
12)	S Decachlorobiphenyl	9.92	12.29	1625084	1433246	39.585	42.034
				Recovery	=	79.17%	84.07%
	Target Compounds						
2)	LM1 AR1016 (1)	4.17	5.94	1097573	1116555	1106.913	1105.964
3)	LM1 AR1016 (2)	4.63	6.47	1843173	1847271	1098.331	1087.144
4)	LM1 AR1016 (3)	5.20	7.05	3450144	3389497	1071.048	1051.609
5)	LM1 AR1016 (4)	5.94	7.34	1053569	1294785	1155.590	1062.938
6)	LM1 AR1016 (5)	6.27	7.76	961258	1027253	1201.468	1075.824
	Total AR1016 (1)			8405717	8675361	5633.350	5383.480
	Average AR1016 (1)					1126.670	1076.696
7)	LM2 AR1260 (1)	7.19	9.41	2445573	2334093	1079.240	1039.070
8)	LM2 AR1260 (2)	8.49	10.22	5168812	1866963	1016.679	1044.695
9)	LM2 AR1260 (3)	8.87	10.49	1746072	3629664	943.343	1005.368
10)	LM2 AR1260 (4)	9.16	10.89	748338	2467912	958.341	1072.867m
11)	LM2 AR1260 (5)	9.43	11.53	1300666	958889	967.901	986.359
	Total AR1260 (1)			11409461	11257521	4965.505	5148.359
	Average AR1260 (1)					993.101	1029.672

7/20/06 SV

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG06100A\097F0601.D Vial: 97
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG06100A\097F0601.D\097R0601.D
Acq On : 11 Jun 06 09:10 AM Operator: [GC]7R0601.I
Sample : 1660 CC ccv2 Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jun 12 12:06 19106

Method : Q:\SVOA\GC5_GG\METHODS\8082CV.M
Title :
Last Update : Mon Jun 12 11:46:17 2006
Response via : Multiple Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xylen	3.64	5.24	2067103	1911760	42.240	42.845
				Recovery	=	84.48%	85.69%
12)	S Decachlorobiphenyl	9.92	12.29	1719233	1489140	42.110	43.764
				Recovery	=	84.22%	87.53%
	Target Compounds						
2)	LM1 AR1016 (1)	4.17	5.94	1038926	1101957	1044.130	1090.693
3)	LM1 AR1016 (2)	4.63	6.47	1802138	1846336	1071.760	1086.555
4)	LM1 AR1016 (3)	5.20	7.04	3498857	3542975	1087.403	1102.394
5)	LM1 AR1016 (4)	5.94	7.33	995438	1316951	1088.439	1081.835
6)	LM1 AR1016 (5)	6.27	7.76	851227	1053354	1057.436	1105.396
	Total AR1016 (1)			8186587	8861571	5349.168	5466.873
	Average AR1016 (1)					1069.834	1093.375
7)	LM2 AR1260 (1)	7.19	9.41	2400479	2394039	1057.587	1067.580
8)	LM2 AR1260 (2)	8.49	10.22	5523438	1901673	1091.384	1065.006
9)	LM2 AR1260 (3)	8.86	10.49	1825109	3796151	988.880	1053.181
10)	LM2 AR1260 (4)	9.16	10.88	813760	2544394	1044.862	1107.115m
11)	LM2 AR1260 (5)	9.43	11.53	1415015	1000184	1057.520	1028.929
	Total AR1260 (1)			11977802	11636441	5240.232	5321.809
	Average AR1260 (1)					1048.046	1064.362

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG0606\GG06100A\098F0601.D Vial: 98
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG0606\GG06100A\098F0601.D\098R0601.D
Acq On : 11 Jun 06 09:28 AM Operator: [GC]8R0601.D\DATA.MS
Sample : 1242 CC CCV3 Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jul 14 15:34 19106

Method : Q:\SVOA\GC5_GG\METHODS\1242CV.M
Title :
Last Update : Wed Jun 14 12:04:44 2006
Response via : Single Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	3.64	5.24	1905444	1754723	40.044	40.599
					Recovery	=	80.09%	81.20%
7)	S	Decachlorobiphenyl	9.92	12.29	1181032	999189	40.601	42.266
					Recovery	=	81.20%	84.53%
		Target Compounds						
2)	LM	AR1242 (1)	4.17	5.94	791673	829793	972.137	987.075
3)	LM	AR1242 (2)	4.88	6.47	1089774	1417571	997.944	1007.347
4)	LM	AR1242 (3)	5.20	7.05	2748110	2677236	1022.901	1033.133
5)	LM	AR1242 (4)	5.84	7.90	1428374	1269129	1012.561	1012.036
6)	LM	AR1242 (5)	6.35	8.51	1501030	1181155	1220.149	1010.748
Total		AR1242 (1)			7558961	7374884	5225.692	5050.340
Average		AR1242 (1)					1045.138	1010.068

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG0606\GG06100A\100F0601.D Vial: 100
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG0606\GG06100A\100F0601.D\100R0601.D
Acq On : 11 Jun 06 10:05 AM Operator: [GC]0R0601.D\DATA.MS
Sample : 1254 CC Inst : GC5
Misc : CCV4 Multiplr: 1.00
Quant Time: Jul 14 15:35 19106

Method : Q:\SVOA\GC5_GG\METHODS\1254CV.M
Title :
Last Update : Tue Jun 13 11:28:29 2006
Response via : Single Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	3.64	5.24	1895329	1795986	39.331	39.542
					Recovery	=	78.66%	79.08%
7)	S	Decachlorobiphenyl	9.92	12.29	1195989	1028762	40.109	41.605
					Recovery	=	80.22%	83.21%
		Target Compounds						
2)	LM	AR1254 (1)	5.84	7.76	750031	620672	997.800	968.954
3)	LM	AR1254 (2)	6.27	8.24	1843810	2342046	1006.870	1012.520
4)	LM	AR1254 (3)	6.99	8.97	3271597	2708600	1014.506	1022.330
5)	LM	AR1254 (4)	7.49	9.41	2789076	1439103	1037.936	1017.381
6)	LM	AR1254 (5)	7.78	9.80	3287070	2634971	1040.515	1033.455
Total		AR1254 (1)			11941585	9745392	5097.628	5054.640
Average		AR1254 (1)					1019.526	1010.928

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG0606\GG06100A\098F0901.D Vial: 98
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG0606\GG06100A\098F0901.D\098R0901.D
Acq On : 11 Jun 06 05:04 PM Operator: [GC]8R0901.D\DATA.MS
Sample : 1242 CC CCV6 Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jul 14 15:34 19106

Method : Q:\SVOA\GC5_GG\METHODS\1242CV.M
Title :
Last Update : Wed Jun 14 12:04:44 2006
Response via : Single Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	3.64	5.24	1962888	1786584	41.251	41.336
					Recovery	=	82.50%	82.67%
7)	S	Decachlorobiphenyl	9.92	12.29	1242605	1067346	42.718	45.149
					Recovery	=	85.44%	90.30%
		Target Compounds						
2)	LM	AR1242 (1)	4.17	5.94	821444	839669	1008.694	998.823
3)	LM	AR1242 (2)	4.88	6.47	1115087	1434604	1021.124	1019.451
4)	LM	AR1242 (3)	5.21	7.05	2881963	2760557	1072.724	1065.286
5)	LM	AR1242 (4)	5.84	7.90	1466853	1290739	1039.839	1029.269
6)	LM	AR1242 (5)	6.35	8.51	1364881	1225083	1109.477	1048.339
Total		AR1242 (1)			7650228	7550652	5251.857	5161.167
Average		AR1242 (1)					1050.371	1032.233

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG06100A\097F0901.D Vial: 97
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG06100A\097F0901.D\097R0901.D
Acq On : 11 Jun 06 04:45 PM Operator: [GC]7R0901.I
Sample : 1660 CC CCV Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jun 12 12:08 19106

Method : Q:\SVOA\GC5_GG\METHODS\8082CV.M
Title :
Last Update : Mon Jun 12 11:46:17 2006
Response via : Multiple Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xylen	3.64	5.24	2147215	1936376	43.953	43.408
				Recovery	=	87.91%	86.82%
12)	S Decachlorobiphenyl	9.92	12.29	1806865	1563379	44.459	46.063
				Recovery	=	88.92%	92.13%
	Target Compounds						
2)	LM1 AR1016 (1)	4.17	5.94	1088094	1099724	1096.766	1088.358
3)	LM1 AR1016 (2)	4.63	6.47	1881397	1849132	1123.082	1088.318
4)	LM1 AR1016 (3)	5.20	7.05	3716661	3640028	1160.529	1134.509
5)	LM1 AR1016 (4)	5.94	7.34	1069369	1327855	1173.841	1091.132
6)	LM1 AR1016 (5)	6.27	7.76	916344	1068396	1142.676	1122.438
	Total AR1016 (1)			8671866	8985136	5696.893	5524.755
	Average AR1016 (1)					1139.379	1104.951
7)	LM2 AR1260 (1)	7.19	9.41	2616209	2385670	1161.178	1063.599
8)	LM2 AR1260 (2)	8.49	10.22	6072410	1883077	1207.030	1054.124
9)	LM2 AR1260 (3)	8.87	10.49	1936448	3853837	1053.028	1069.747
10)	LM2 AR1260 (4)	9.16	10.89	869233	2606358	1118.225	1134.862m
11)	LM2 AR1260 (5)	9.43	11.53	1503043	1057025	1126.510	1087.525
	Total AR1260 (1)			12997343	11785968	5665.970	5409.857
	Average AR1260 (1)					1133.194	1081.971

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG0606\GG06100A\100F0301.D Vial: 100
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG0606\GG06100A\100F0301.D\100R0301.D
Acq On : 11 Jun 06 06:08 AM Operator: [GC]0R0301.D\DATA.MS
Sample : 1254 CC CCV7 Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jul 14 15:35 19106

Method : Q:\SVOA\GC5_GG\METHODS\1254CV.M
Title :
Last Update : Tue Jun 13 11:28:29 2006
Response via : Single Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1) S	Tetrachloro-m-xylen	3.64	5.24	1906959	1778645	39.572	39.160
				Recovery	=	79.14%	78.32%
7) S	Decachlorobiphenyl	9.92	12.29	1140309	971903	38.242	39.305
				Recovery	=	76.48%	78.61%
	Target Compounds						
2) LM	AR1254 (1)	5.84	7.76	746465	620180	993.056	968.187
3) LM	AR1254 (2)	6.27	8.24	1803310	2279749	984.753	985.587
4) LM	AR1254 (3)	6.99	8.97	3134736	2601118	972.067	981.762
5) LM	AR1254 (4)	7.49	9.41	2622725	1375763	976.030	972.603
6) LM	AR1254 (5)	7.78	9.81	3098696	2495408	980.886	978.717
Total	AR1254 (1)			11405933	9372218	4906.792	4886.856
Average	AR1254 (1)					981.358	977.371

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ANALYSIS SEQUENCE

BPG0173

Instrument: SVOAGC5

Calibnration ID: 0607025 8082CV

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0173-CCV1	QC		1		6F14066		
BPG0173-CCV2	QC		2		6F14067		
0606113-14RE1	: 8082/3541 CLP - Army ppl	F	3				MACTEC Engineering & Consulting, In
BPG0173-CCV3	QC		4		6F14066		
BPG0173-CCV4	QC		5		6F14067		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II — Y-Split Dual End

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/12/06	67	6606120-67	BF60821-B31 ~~0606159-09~~	8081CV		
	68	-68	0606168-01 ~~-68~~		x10	M
	69	-69	BF60821-BS1 ~~-66~~			
	70	-70	0606090-09 ~~-67~~			
	71	-71	0606090-9MS ~~-68~~			
	72	-72	0606090-9MSD ~~-69~~			
	73	-73	0606079-04 ~~-70~~			
	74	-74	0606129-11		ND	
	75	-75	-12		ND	
	76	-76	-13		ND	
	77	77	-14		ND	
	78	-78	-15		60 ~~RR~~ B 6/14/06	
	79	-79	-16		ND	
	80	-80	-17		ND	
	~~23~~ 96	-96	Hex			
	~~24~~ 97	-97	1660CC		H 6F14039	
	~~25~~ 98	-98	1242CC		40	
	~~26~~ 99	-99	~~1640CC~~ 1254CC		41	
	~~27~~ 100	-100	~~1248CC~~ 1260CC		42	
	97 ~~23 24~~	-97	1660CC		H 6F14039	
	97	6606130-97	1660CC		6F14039 INJ: 1747	
6/12/06	97	6606130 -97	1660CC	8081CV	6F14039 INJ: 1804	M
6/14/06	2	6G061400-02	1660CC	8081CV	6F14066 CCV1 INJ: 10:23A	M
	3	-03	1242CC		67 CCV2	
	4	-04	1248CC		68	
	5	-05	1254CC		6F14069	
	6	~~-02~~ -06	~~1660CC~~ 0606130-08		6F14066 x2 60	
	7	-07	0606130-15		x10 54	
	8	-08	BF60505-BLK1			
6/14/06	9	6606141G -09	-BS1	8081CV		

CONTROL NUMBER 60.0031-0603A

PAGE________

B 6/15/06

ESS LABORATORY
GC 5 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II **Y-Split Dual End**

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/14/06	10	GF061406-10	BF60515-B3D1	8082CV		
	11	-11	0606124-01		ND 60	
	12	-12	-02		ND	
	13	-13	-03		ND	
	14	-14	-04		ND	
	15	-15	-05		ND	
	16	-16	-06		ND	
	17	-17	-07		ND	
	18	-18	-08		ND 60	
	19	-19	-09		ND	
	20	-20	-10		ND	
	21	-21	0606113-14		ND 4L	
	96	-96	Hexane			
	97	-97	1660CV		6F14066 CCV3 INJ 1710	
	98	-98	1262CV		67 CCV4	
	99	-99	1248CV		68	
	100	-100	1254CC		6F14069	
	22	-22	0606152-01			
	23	-23	-01M1			
	24	-24	-01MSD			
	25	-25	-02		60	
	26	-26	-03		60	
	27	-27	-04			
	28	-28	-05			
	29	-29	-06		60	
	30	-30	-07		60	
	31	-31	-08			
	32	-31	-09		60	
	33	-33	-10		60 (RR10X)	
6/14/06	34	GF061406 -34	-11	8082CV		

CONTROL NUMBER 60.0031-0603A PAGE______

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG0606\GG61406A\002F0101.D Vial: 2
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG0606\GG61406A\002F0101.D\002R0101.D
Acq On : 14 Jun 06 10:23 AM Operator: [GC]2R0101.D\DATA.MS
Sample : 1660 CCV1 Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jun 14 10:49 19106

Method : Q:\SVOA\GC5_GG\METHODS\8082CV.M
Title :
Last Update : Mon Jun 12 11:46:17 2006
Response via : Multiple Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
1)	S Tetrachloro-m-xylen	3.61	5.22	1817165	1589110	36.896	35.463
				Recovery	=	73.79%	70.93%
12)	S Decachlorobiphenyl	9.89	12.26	1612788	1403387	39.256	41.109
				Recovery	=	78.51%	82.22%
	Target Compounds						
2)	LM1 AR1016 (1)	4.14	5.92	879606	915952	873.573	896.126
3)	LM1 AR1016 (2)	4.60	6.45	1524970	1554329	892.290	902.452
4)	LM1 AR1016 (3)	5.18	7.02	3198982	3093511	986.722	953.668
5)	LM1 AR1016 (4)	5.95	7.31	807551	1051471	871.399	855.507
6)	LM1 AR1016 (5)	6.24	7.74	630556	902512	768.574m	934.495m
	Total AR1016 (1)			7041665	7517775	4392.558	4542.248
	Average AR1016 (1)					878.512	908.450
7)	LM2 AR1260 (1)	7.16	9.39	2189438	2200553	956.247	975.561
8)	LM2 AR1260 (2)	8.46	10.20	5079530	1704179	997.871	949.440
9)	LM2 AR1260 (3)	8.84	10.47	1689144	3735895	910.544	1035.876
10)	LM2 AR1260 (4)	9.13	10.86	756618	2365336	969.291	1026.934m
11)	LM2 AR1260 (5)	9.40	11.50	1348620	971994	1005.485	999.869
	Total AR1260 (1)			11063350	10977956	4839.438	4987.679
	Average AR1260 (1)					967.888	997.536

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG0606\GG61406A\003F0101.D Vial: 3
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG0606\GG61406A\003F0101.D\003R0101.D
Acq On : 14 Jun 06 10:41 AM CCVL Operator: [GC]TA.MS
Sample : 1242 Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jun 14 16:56 19106

Method : Q:\SVOA\GC5_GG\METHODS\1242CV.M
Title :
Last Update : Wed Jun 14 12:04:44 2006
Response via : Single Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	3.61	5.22	1971647	1689543	41.435	39.091
					Recovery	=	82.87%	78.18%
7)	S	Decachlorobiphenyl	9.89	12.27	1143789	937232	39.321	39.645
					Recovery	=	78.64%	79.29%
		Target Compounds						
2)	LM	AR1242 (1)	4.14	5.92	782569	758857	960.957	902.694
3)	LM	AR1242 (2)	4.85	6.45	986202	1325583	903.099	941.979
4)	LM	AR1242 (3)	5.18	7.02	3036667	2602812	1130.308	1004.414
5)	LM	AR1242 (4)	5.81	7.88	1284205	1115407	910.361	889.454
6)	LM	AR1242 (5)	6.32	8.49	1235005	1147924	1003.904	982.312
		Total AR1242 (1)			7324648	6950584	4908.630	4720.852
		Average AR1242 (1)					981.726	944.170

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG0606\GG61406A\097F0201.D Vial: 97
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG0606\GG61406A\097F0201.D\097R0201.D
Acq On : 14 Jun 06 05:10 PM Operator: [GC]7R0201.D\DATA.MS
Sample : 1660 CC ccv3 Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jun 14 18:07 19106

Method : Q:\SVOA\GC5_GG\METHODS\8082CV.M
Title :
Last Update : Mon Jun 12 11:46:17 2006
Response via : Multiple Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	3.61	5.22	2188935	1842619	44.846	41.263
					Recovery	=	89.69%	82.53%
12)	S	Decachlorobiphenyl	9.89	12.26	1564159	1321618	37.952	38.577
					Recovery	=	75.90%	77.15%
		Target Compounds						
2)		LM1 AR1016 (1)	4.14	5.92	1140558	1133275	1152.930	1123.453
3)		LM1 AR1016 (2)	4.60	6.45	1848228	1692646	1101.604	989.657
4)		LM1 AR1016 (3)	5.18	7.02	3347532	3351207	1036.596m	1038.939
5)		LM1 AR1016 (4)	5.95	7.31	945093	1239812	1030.282	1016.073
6)		LM1 AR1016 (5)	6.24	7.73	818098	980578	1014.070m	1022.942m
		Total AR1016 (1)			8099509	8397518	5335.483	5191.065
		Average AR1016 (1)					1067.097	1038.213
7)		LM2 AR1260 (1)	7.16	9.39	2437971	2362410	1075.590	1052.537
8)		LM2 AR1260 (2)	8.46	10.20	5183906	1813271	1019.859	1013.276
9)		LM2 AR1260 (3)	8.84	10.47	1717318	3517357	926.776	973.115
10)		LM2 AR1260 (4)	9.13	10.86	768854	2173020	985.474	940.816m
11)		LM2 AR1260 (5)	9.40	11.50	1293431	869479	962.232	894.190
		Total AR1260 (1)			11401480	10735536	4969.930	4873.934
		Average AR1260 (1)					993.986	974.787

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report

Signal #1 : Q:\SVOA\GC5_GG\DATA\GG0606\GG61406A\098F0201.D Vial: 98
Signal #2 : Q:\SVOA\GC5_GG\DATA\GG0606\GG61406A\098F0201.D\098R0201.D
Acq On : 14 Jun 06 05:28 PM Operator: [GC]8R0201.D\DATA.MS
Sample : 1242 CC ccv4 Inst : GC5
Misc : Multiplr: 1.00
Quant Time: Jul 14 16:16 19106

Method : Q:\SVOA\GC5_GG\METHODS\1242CV.M
Title :
Last Update : Wed Jun 14 12:04:44 2006
Response via : Single Level Calibration

Volume Inj. : 2 uL
Signal #1 Phase : RTX-CLPESTICIDE Signal #2 Phase: RTX-CLPESTICIDE II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

		Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
		System Monitoring Compounds						
1)	S	Tetrachloro-m-xylen	3.61	5.22	2063374	1757499	43.363	40.663
					Recovery	=	86.73%	81.33%
7)	S	Decachlorobiphenyl	9.89	12.26	1125052	908751	38.677	38.440
					Recovery	=	77.35%	76.88%
		Target Compounds						
2)	LM	AR1242 (1)	4.14	5.92	896719	900255	1101.128	1070.893
3)	LM	AR1242 (2)	4.85	6.45	1062476	1358135	972.946	965.111
4)	LM	AR1242 (3)	5.18	7.02	2751759	2621963	1024.259	1011.804
5)	LM	AR1242 (4)	5.81	7.88	1335302	1229746	946.583	980.631
6)	LM	AR1242 (5)	6.32	8.49	1395638	1174460	1134.479	1005.019
		Total AR1242 (1)			7441894	7284560	5179.396	5033.458
		Average AR1242 (1)					1035.879	1006.692

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ANALYSIS SEQUENCE

BPG0134

Instrument: SVOAGC6

Calibnration ID: UNASSIGNED 8082_6CI

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0134-CAL1	QC 1660 50		1		6F14043		
BPG0134-CAL2	QC 1660 100		2		6F14044		
BPG0134-CAL3	QC 1660 500		3		6F14045		
BPG0134-CAL4	QC 1660 1000		4		6F14046		
BPG0134-CAL5	QC 1660 1600		5		6F14047		
BPG0134-CAL6	QC 1660 2000		6		6F14048		
BPG0134-SCV1	QC 1660 SCV		7		6F14049		
BPG0134-CAL7	QC 1221		8		6F14051		
BPG0134-SCV2	QC 1221 SCV		9		6F14052		
BPG0134-CAL8	QC 1232		10		6F14053		
BPG0134-SCV3	QC 1232 SCV		11		6F14054		
BPG0134-CAL9	QC 1242		12		6F14055		
BPG0134-SCV4	QC 1242 SCV		13		6F14056		
BPG0134-CALA	QC 1248		14		6F14057		
BPG0134-SCV5	QC 1248 SCV		15		6F14058		
BPG0134-CALB	QC 1254		16		6F14059		
BPG0134-SCV6	QC 1254 SCV		17		6F14060		
BPG0134-CALC	QC 1262		18		6F14061		
BPG0134-SCV7	QC 1262 SCV		19		6F14062		
BPG0134-CALD	QC 1268		20		6F14063		
BPG0134-SCV8	QC 1268 SCV		21		6F14064		

Samples Loaded By _____ Date _____

Data Processed By _____ Date _____

Response Factor Report SVOA_GC6

Method : C:\MSDCHEM\1\METHODS\8082_6CI.M (Chemstation Integrator)
Title :
Last Update : Thu Jun 22 16:06:16 2006

Calibration Files
100 =GH025496.D 50 =GH025495.D 500 =GH025497.D
1000 =GH025733.D 1600 =GH025499.D 2000 =GH025500.D

Used Average RF

	Compound	100	50	500	1000	1600	2000	Avg		%RSD
1)	S Tetrachloro-m-xy	9.455	8.570	9.310	9.252	9.284	9.211	9.180	E7	3.38
2)	LM1 AR1016 (1)	2.054	1.939	1.613	1.550	1.437	1.503	1.683	E6	15.00
3)	LM1 AR1016 (2)	3.661	4.360	3.032	2.928	2.785	2.755	3.254	E6	19.50
4)	LM1 AR1016 (3)	5.271	5.972	4.279	4.305	4.237	4.209	4.712	E6	15.68
5)	LM1 AR1016 (4)	2.146	2.174	2.111	2.147	2.090	2.074	2.124	E6	1.81
6)	LM1 AR1016 (5)	1.244	1.258	1.135	1.132	1.120	1.153	1.174	E6	5.21
7)	LM2 AR1260 (1)	4.072	4.505	4.013	4.022	3.999	4.039	4.108	E6	4.77
8)	LM2 AR1260 (2)	2.145	2.183	2.250	2.280	2.311	2.360	2.255	E6	3.55
9)	LM2 AR1260 (3)	9.185	9.828	9.472	9.608	9.835	8.208	9.356	E6	6.55
10)	LM2 AR1260 (4)	4.639	4.774	4.710	4.788	4.770	3.955	4.606	E6	7.03
11)	LM2 AR1260 (5)	2.160	2.027	2.098	2.066	2.084	2.081	2.086	E6	2.10
12)	S Decachlorobiphen	7.252	7.137	7.048	6.910	6.949	6.761	7.010	E7	2.49

Signal #2 Calibration Files
100 =GH025496.D 50 =GH025495.D 500 =GH025497.D
1000 =GH025733.D 1600 =GH025499.D 2000 =GH025500.D

Used Avg RF

	Compound	100	50	500	1000	1600	2000	Avg		%RSD
1)	S Tetrachloro-m-xy	1.029	1.000	1.040	1.039	1.045	1.061	1.035	E8	1.97
2)	LM1 AR1016 (1)	1.884	1.839	1.753	1.635	1.726	1.789	1.771	E6	4.96
3)	LM1 AR1016 (2)	3.853	3.761	3.486	3.524	3.315	3.330	3.545	E6	6.24
4)	LM1 AR1016 (3)	2.957	2.847	2.841	2.931	2.952	2.899	2.904	E6	1.76
5)	LM1 AR1016 (4)	2.321	2.434	2.250	2.255	2.207	2.216	2.281	E6	3.74
6)	LM1 AR1016 (5)	1.289	1.167	1.240	1.188	1.201	1.179	1.210	E6	3.79
7)	LM2 AR1260 (1)	3.455	3.588	3.333	3.158	3.425	3.429	3.398	E6	4.22
8)	LM2 AR1260 (2)	2.595	2.542	2.403	2.459	2.458	2.487	2.491	E6	2.74
9)	LM2 AR1260 (3)	5.351	5.380	5.260	5.430	5.488	5.572	5.414	E6	2.01
10)	LM2 AR1260 (4)	3.372	3.410	3.273	3.349	3.374	3.410	3.365	E6	1.51
11)	LM2 AR1260 (5)	1.203	1.267	1.146	1.156	1.158	1.170	1.183	E6	3.86
12)	S Decachlorobiphen	4.420	5.395	4.021	3.999	3.957	3.968	4.294	E7	13.22

#) = Out of Range

ESS LABORATORY
GC 6 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
	48					
	49					
	50					
	51					
	52					
	53					
	54					
	55					
	56					
	57					
	58					
	59					
	95					
	96					
	97					
	98					
	99					
	96					
6/13/06	1	GHOLSY-92	166033			SGR
	2	93	53			
	1	94	~~1~~ 1104			
	2	95	1660-50	FORCE	6F14043 CAL1	
	3	96	100		044 2	
	4	97	500		045 3	
	5	98	1000		046 4	
	6	GHOLSY 99	1600		047 5	
	7	GHOST 00	2000		048 6	
	8	01	SS		049 SCV1	
	9	02	SS		050 —	
6/13/06	10	GHOST-03	1661	FORCE	051 CAL7	SGR

NA

CONTROL NUMBER 60.0035-0601A PAGE____

ESS LABORATORY
GC 6 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/13/06	11	6F14055-0504	1221S1 ✓	8081CL	6F14052 SCV2	[illegible]
	12	-0505	1232 ✓		053 CAL8	
	13	-0506	1232S1 ✓		054 SCV3	
	14	-0507	1246 ✓		055 CAL9	
	15	-08	1246S1 ✓		056 SCV4	
	16	-09	1248 ✓		057 ~~CAL10~~ CALA	
	17	-10	1248S1 ✓		058 SCV5	
	18	-11	1253 ✓		~~58~~ ~~059~~ 059 ~~CAL11~~ CALB	
	19	-12	1253S1 ✓		060 SCV6	
	20	-13	1261 ✓		061 ~~CAL12~~ CALC	
	21	-14	1262S1 ✓		062 SCV7	
	22	-15	1268 ✓		063 ~~CAL13~~ CALD	
	23	-16	1268S1 ✓		6F14064 SCV8	
	24	-17	0606075-01 ✓		4/6 S4	
	25	-18	-02 ✓		S4	
	26	-19	-03 ✓		ND	
	27	-20	-04 ✓		RR470 54/60	
	28	-21	-05 ✓		RR40 51/10	
	29	-22	-05MS ✓		RR~~40~~ 35 60	
	30	-23	-05MSD		RR~~40~~ 35 30	
	31	-24	-06			
	32	-25	-07 ✓		ND	
	33	-26	-08 ✓		S4	
	34	-27	-09 ✓		ND	
	35	-28	-10 ✓		ND	
	36	-29	-11 ✓		ND	
	37	-30	-12 ✓		ND	
	38	-31	-14 ✓		ND	
	39	-32	-15 ✓		ND	
6/13/06	40	6F14055 -33	-16 ✓	8081CL	ND	

CONTROL NUMBER 60.0035-0601A

PAGE________

ANALYSIS SEQUENCE

BPG0175

Instrument: SVOAGC6

Calibnration ID: 0607024 8082 - 6CI

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0175-CCV1	QC		1		6F20058		
BF61217-BLK1	QC		2				
BF61217-BS1	QC		3				
BF61217-BSD1	QC		4				
0606113-18	C: 8082 ppb Low Level CLP	A	5				MACTEC Engineering & Consulting, In
BPG0175-CCV2	QC		6		6F20058		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 6 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/15/16	9	6H0256-05	0606165-05	8082 ww CI	x100	M
	100	06	Hex			
	96	07	166021		6F14066 07:42 pm	
	97	08	12424		067	
	98	09	124820		068	
	99	10	12544		069	
6/18/16	96	6H0256 11	166021	8082 ww CI		M
6/16/16	100	6H0256-12	Hex	8082 ww CI		M
	96	-13	16604		CCV1 6F20058 6F14066 09:37	
	97	-14	12424		059 067	
	98	-15	12484		060 068	
	99	-16	125421		061 069	
	1	-17	3F61217-B115		58	
	2	-18	-B311			
	3	-19	-B301			
	4	-20	0606113-18		N2 Iw soil	
	160	-21	Hex			
	96	-22	166021		CCV2 6F20058 6F14066 12:39	
	97	-23	12424		059 067	
	98	-24	12484		060 068	
6/16/16	99	6H0256 -25	12544		061 58 069	
	5	-26	0606165-01		x10	
	6	-27	-02		x10	
	7	-28	-03		x10	
	8	-29	-04		x10	
	9	-30	-05		x10	
	100	-31	Hexane			
	96	-32	166021		6F20058 6F14066 5:49pm	
	97	-33	12424		059 067	
6/16/16	98	6H0256 -34	12484	8082 ww CI	58 060 068	M

CONTROL NUMBER 60.0035-0601A PAGE_______

Quantitation Report (Not Reviewed)

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061606\GH025613.D\ECD1A.CH Vial: 96
Acq On : 6-16-2006 09:37:43 AM Operator: ML
Sample : 1660 CC CCV1 Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061606\GH025613.D\ECD2B.CH Vial: 96
Acq On : 6-16-2006 09:55:36 AM Operator: ML
Sample : 1660 CC Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS2.E
Quant Time: Jun 16 10:34:03 2006 Quant Results File: 8082_6CI.RES

Quant Method : C:\MSDCHEM\1\METHODS\8082_6CI.M (Chemstation Integrator)
Title :
Last Update : Tue Jun 13 16:00:05 2006
Response via : Initial Calibration
DataAcq Meth : 8082CB.M

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPESTICIDES Signal #2 Phase: RTX-CLPESTICIDES II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	4.23	4.14	3746.5E6	4522.2E6	40.810	43.673
Spiked Amount 50.000			Recovery	=	81.62%	87.35%
12) S Decachlorobiphen	10.02	10.22	2721.3E6	1499.6E6	38.823	34.927
Spiked Amount 50.000			Recovery	=	77.65%	69.85%
Target Compounds						
2) LM1 AR1016 (1)	4.73	4.77	1548.3E6	1845.4E6	920.120	1041.978
3) LM1 AR1016 (2)	5.16	5.24	2887.7E6	3472.9E6	887.532	979.698
4) LM1 AR1016 (3)	5.70	5.89	4478.6E6	2963.9E6	950.441	1020.517
5) LM1 AR1016 (4)	6.28	6.37	2191.3E6	2327.0E6	1031.782	1020.364
6) LM1 AR1016 (5)	6.68	6.99	1177.9E6	1206.4E6	1003.544	996.651
Sum AR1016 (1)			12283.8E6	11815.6E6	4793.420	5059.208
Average AR1016 (1)					958.684	1011.842
7) LM2 AR1260 (1)	7.52	7.63	4174.7E6	3478.6E6	1016.218	1023.731
8) LM2 AR1260 (2)	7.91	8.53	2817.6E6	2521.8E6	1249.549	1012.558
9) LM2 AR1260 (3)	8.71	8.78	9279.9E6	5551.6E6	991.859	1025.491
10) LM2 AR1260 (4)	8.98	9.12	5292.5E6	3407.9E6	1149.026	1012.835
11) LM2 AR1260 (5)	9.57	9.66	2251.2E6	1172.1E6	1079.174	990.384
Sum AR1260 (1)			23815.9E6	16132.1E6	5485.826	5064.999
Average AR1260 (1)					1097.165	1013.000

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061606\GH025622.D\ECD1A.CH Vial: 96
Acq On : 16 Jun 2006 12:39 Operator: ML
Sample : 1660 CC cerl Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061606\GH025622.D\ECD2B.CH Vial: 96
Acq On : 16 Jun 2006 12:57 Operator: ML
Sample : 1660 CC Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS2.E
Quant Time: Jun 19 11:15:53 2006 Quant Results File: 8082_6CI.RES

Quant Method : C:\MSDCHEM\1\METHODS\8082_6CI.M (Chemstation Integrator)
Title :
Last Update : Tue Jun 13 16:00:05 2006
Response via : Initial Calibration
DataAcq Meth : 8082CB.M

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPESTICIDES Signal #2 Phase: RTX-CLPESTICIDES II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	4.23	4.14	3657.4E6	4592.2E6	39.840	44.349
Spiked Amount 50.000			Recovery	=	79.68%	88.70%
12) S Decachlorobiphen	10.02	10.22	2368.2E6	1661.8E6	33.785	38.703
Spiked Amount 50.000			Recovery	=	67.57%	77.41%
Target Compounds						
2) LM1 AR1016 (1)	4.73	4.77	1518.8E6	1856.3E6	902.593	1048.126
3) LM1 AR1016 (2)	5.16	5.24	2866.8E6	3512.6E6	881.109	990.920
4) LM1 AR1016 (3)	5.70	5.89	4334.4E6	2999.2E6	919.835	1032.665
5) LM1 AR1016 (4)	6.28	6.37	2156.3E6	2335.0E6	1015.309	1023.885
6) LM1 AR1016 (5)	6.68	6.99	1191.0E6	1208.4E6	1014.728	998.271
Sum AR1016 (1)			12067.4E6	11911.5E6	4733.575	5093.868
Average AR1016 (1)					946.715	1018.774
7) LM2 AR1260 (1)	7.52	7.62	4199.9E6	3454.7E6	1022.332	1016.682
8) LM2 AR1260 (2)	7.92	8.53	2482.0E6	2445.4E6	1100.714	981.879
9) LM2 AR1260 (3)	8.71	8.78	7935.3E6	5487.4E6	848.143	1013.622
10) LM2 AR1260 (4)	8.98	9.12	4295.6E6	3436.6E6	932.598	1021.352
11) LM2 AR1260 (5)	9.57	9.66	1908.5E6	1208.0E6	914.892	1020.722
Sum AR1260 (1)			20821.2E6	16032.1E6	4818.679	5054.258
Average AR1260 (1)					963.736	1010.852

mc/19/a

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

ANALYSIS SEQUENCE

BPG0174

Instrument: SVOAGC6

Calibnration ID: ~~0607024~~ 8082_6 CI

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client
BPG0174-CCV1	QC		1		6F20058		
BF61621-BLK1	QC		2				
BF61621-BS1	QC		3				
BF61621-BSD1	QC		4				
0606113-18RE1	C: 8082 ppb Low Level CLP	A	5				MACTEC Engineering & Consulting, In
BPG0174-CCV2	QC		6		6F20058		

Samples Loaded By Date

Data Processed By Date

ESS LABORATORY
GC 6 RUN LOG

COLUMN RTX CLPesticide / RTX CL Pesticide II

BATCH DATE	VIAL #	Linked FILE #	LAB ID	METHOD	COMMENTS / DILUTION / STANDARD ID	ANALYST
6/1/16	99	GH0252-35	125422	8082 GC CI	(SN) ~~6F20061~~ 6F14069	✓
~~6/14/16~~ 6/16/16	~~97~~ 96	GH0252-36	166022	8082 GC CI		✓
6/19/16	~~98~~ 96	GH0256-37	Hex	8082 GC CI		✓
	97	-38	16604		6F20058 CCV1 11:29 Am	
	98	-39	12414		059	
	99	-40	124822		060	
	100	-41	12542		061	
	1	-42	BF61621-BLK1			
	2	-43	-BS1			
	3	-44	-BSD1			
	4	-45	0606113-18			
	5	-46	BF61667-BLK1			
	6	-47	-BS1			
	7	-48	-BSD1			
	8	-49	0606258-01			
	9	-50	0606259-01			
	10	-51	0606276-01			
	11	-52	0606214-03			
	12	-53	0606213-05		(12574) (Re)	
	13	-54	-06			
	14	-55	0606276-02			
	96	-56	Hex			
	97	-57	166022		6F20058 CCV2 05:10PM	
	98	-58	124222		059	
	99	-59	12484		060	
	100	-60	125422		061	
6/19/16 ~~6/16/16~~	97	GH0256-61	16602	8082 GC CI		✓
6/20/16	96	GH0256-62	[illegible]	8082 GC CI		✓
	97	-63	16604			
6/20/16	98	GH0252-64	12414	8082 GC CI		✓

CONTROL NUMBER 60.0035-0601A PAGE_______

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061906\GH025638.D\ECD1A.CH Vial: 97
Acq On : 19 Jun 2006 11:29 Operator: ML
Sample : 1660 CC CCV1 Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061906\GH025638.D\ECD2B.CH Vial: 97
Acq On : 19 Jun 2006 11:47 Operator: ML
Sample : 1660 CC Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS2.E
Quant Time: Jun 19 12:17:00 2006 Quant Results File: 8082_6CI.RES

Quant Method : C:\MSDCHEM\1\METHODS\8082_6CI.M (Chemstation Integrator)
Title :
Last Update : Tue Jun 13 16:00:05 2006
Response via : Initial Calibration
DataAcq Meth : 8082CB.M

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPESTICIDES Signal #2 Phase: RTX-CLPESTICIDES II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	4.23	4.14	3551.5E6	4238.9E6	38.686	40.937
Spiked Amount 50.000			Recovery	=	77.37%	81.87%
12) S Decachlorobiphen	10.02	10.22	3145.1E6	1660.5E6	44.869	38.673
Spiked Amount 50.000			Recovery	=	89.74%	77.35%
Target Compounds						
2) LM1 AR1016 (1)	4.73	4.77	1435.9E6	1667.1E6	853.326	941.272
3) LM1 AR1016 (2)	5.16	5.24	2748.8E6	3278.2E6	844.828	924.775
4) LM1 AR1016 (3)	5.70	5.89	4122.2E6	2799.5E6	874.811	963.915
5) LM1 AR1016 (4)	6.28	6.37	2089.4E6	2227.4E6	983.807	976.701
6) LM1 AR1016 (5)	6.68	6.99	1137.3E6	1163.6E6	968.918	961.285
Sum AR1016 (1)			11533.6E6	11135.8E6	4525.689	4767.949
Average AR1016 (1)					905.138	953.590
7) LM2 AR1260 (1)	7.52	7.62	4074.7E6	3416.3E6	991.878	1005.396
8) LM2 AR1260 (2)	7.92	8.53	2460.4E6	2422.5E6	1091.136	972.676
9) LM2 AR1260 (3)	8.71	8.77	10383.1E6	5344.3E6	1109.770	987.199
10) LM2 AR1260 (4)	8.98	9.12	5396.2E6	3340.0E6	1171.536	992.632
11) LM2 AR1260 (5)	9.57	9.66	2369.6E6	1174.6E6	1135.972	992.541
Sum AR1260 (1)			24684.1E6	15697.8E6	5500.292	4950.443
Average AR1260 (1)					1100.058	990.089

7/13/06 JR

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061906\GH025657.D\ECD1A.CH Vial: 97
Acq On : 6-19-2006 05:10:43 PM Operator: ML
Sample : 1660 CC CCV2 Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS.E

Data File : Q:\SVOA\GC6_GH\DATA\GH0606\GH061906\GH025657.D\ECD2B.CH Vial: 97
Acq On : 6-19-2006 05:28:38 PM Operator: ML
Sample : 1660 CC Inst : SVOA_GC6
Misc : Multiplr: 1.00
IntFile : EVENTS2.E
Quant Time: Jun 19 17:48:36 2006 Quant Results File: 8082_6CI.RES

Quant Method : C:\MSDCHEM\1\METHODS\8082_6CI.M (Chemstation Integrator)
Title :
Last Update : Tue Jun 13 16:00:05 2006
Response via : Initial Calibration
DataAcq Meth : 8082CB.M

Volume Inj. : 1uL
Signal #1 Phase : RTX-CLPESTICIDES Signal #2 Phase: RTX-CLPESTICIDES II
Signal #1 Info : 0.32 Signal #2 Info : 0.32

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
1) S Tetrachloro-m-xy	4.23	4.14	3503.1E6	4594.6E6	38.159	44.373m
Spiked Amount 50.000			Recovery =		76.32%	88.75%
12) S Decachlorobiphen	10.02	10.22	1665.2E6	1228.8E6	23.756m	28.619
Spiked Amount 50.000			Recovery =		47.51%	57.24%
Target Compounds						
2) LM1 AR1016 (1)	4.73	4.77	1418.1E6	1785.6E6	842.731	1008.209m
3) LM1 AR1016 (2)	5.16	5.24	2722.3E6	3378.1E6	836.700	952.971m
4) LM1 AR1016 (3)	5.70	5.89	3951.7E6	3109.3E6	838.623	1070.581m#
5) LM1 AR1016 (4)	6.29	6.37	1860.1E6	2175.2E6	875.839	953.799m
6) LM1 AR1016 (5)	6.68	6.99	943.5E6	1020.6E6	803.834	843.111m
Sum AR1016 (1)			10895.7E6	11468.8E6	4197.726	4828.671
Average AR1016 (1)					839.545	965.734
7) LM2 AR1260 (1)	7.52	7.63	3086.5E6	2788.9E6	751.317m	820.752m
8) LM2 AR1260 (2)	7.92	8.54	1734.2E6	1837.7E6	769.066m	737.853
9) LM2 AR1260 (3)	8.71	8.78	5083.7E6	4006.8E6	543.356	740.126 #
10) LM2 AR1260 (4)	8.98	9.12	2764.7E6	2457.8E6	600.219	730.459
11) LM2 AR1260 (5)	9.57	9.66	1204.1E6	841.5E6	577.248	711.079
Sum AR1260 (1)			13873.1E6	11932.7E6	3241.206	3740.270
Average AR1260 (1)					648.241	748.054

7/13/06 JK

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 25% (m)=manual int.

PCB
Logbooks

ESS Organic Preparation Logbook

Project #: 0606113
Prep Date: 6/16/06
Batch ID: PLFBF611621
Extraction Method: 3510

Surrogate ID# A 060609078 B NA C
Matrix Spike ID# D 060505037 E NA F
Analytical Matrix: Aq
Extraction Time: Start: 1200 Finish:

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol (ml)/ Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
PLFBF611621-B	1000	0.1	NA	1	1	NA	6/16/06	40	5-9					
-BV	1000	0.1	0.1	1	1	↓	↓	↓	5-9			↓	↓	↓
-BVD	1000	0.1	0.1	1	1	↓	↓	↓	5-9			↓	↓	↓
0606113-18	1000	0.1	NA	1	1	NA	6/16/06	40	5-9	✓				

Analysis Performed: PCB ☒ | B/N SVOA ☐ | SVOA ☐ | LL PAH ☐ | PEST ☐ | TPH/GC ☐ | BIS-2 ☐ | PAH ☐

Acid Washed: Y / N
H_2SO_4 ID# NA

Cu Cleaned: Y / N
Cu ID# NA

Florisiled: Y / N
Lot# NA

Silica Column/Carbon prep: Y / N
Lot # NA

CH_2Cl_2 lot # CQ429
Hexane lot# CQ914
Acetone lot# NA

NaOH ID# NA
Na_2SO_4 ID# illegible

Prepared By:
Glasswool: illegible
Method #(s): 8082

**Check off column if entire sample used and bottle discarded.

Control #50.0001-0603A

BATCH ID/Test: BF616

BATCH ID/Test:

Page

ESS Organic Preparation Logbook

Project #: 0606071, 0606113
Prep Date: 6/9/06
Batch ID: PXPTX6F60923
Extraction Method: 3541

Surrogate ID#
A 6630055
B NA
C NA

Matrix Spike ID#
D 6F05037
E 6C0F037
F NA

Analytical Matrix: soil
Extraction Time:
Start: 1400
Finish: —

Split Extraction* ☐
* Half of the final extract volume (0.5ml) is exchanged into 5ml 5ml hexane and transferred as Vol 1. The other half (0.5ml CH_2Cl_2) is transferred as Volume 2.

ESS ID	Vol(ml)/Wt.(g)	Surrogate (ul or ml)	Matrix Spike (ul or ml)	Final Extract Vol (ml) Hex/CH_2Cl_2	Transfer Vol #1 (ml) Hex/CH_2Cl_2	Transfer Vol #2 (ml) Hex/CH_2Cl_2	Transfer Date	Bath Temp (C)	pH	Discard bottle**	Comments	1st Rvw Init.	Witness Init.	2nd Rvw Init.
1XPTX6F60923-B	20.0	1	NA	10	10	NA	6/14/06	40	NA	NA		[illegible]	KAB	SST
PXBF60923-BS	20.0	1	10	10	10									
-BSD	20.0	1	10	10	10									
PTX6F60923-BS	20.0	1	1E	10	10									
-BSD	20.0	1	1E	10	10									
PXPTX0606113-01	19.4	1	NA	10	10									
-02	20.6	1		10	10									
-03	20.0	1		10	10									
-04	21.0	1		10	10									
-05	20.1	1		10	10									
-06	20.6	1		10	10									
-07	20.9	1		10	10									
-08	21.0	1		10	10									
-09	20.0	1		10	10									
-10	19.0	1		10	10									
-11	19.9	1		10	10									
-12	19.6	1		10	10									
-13	19.4	1		10	10									
-14	19.0	1		10	10									
-15	19.3	1		10	10									
-16	21.0	1		10	10									
-17	19.4	1	NA	10	10									
PX0606113-17MS	19.9	1	10	10	10									
-17MSD	19.7	1	10	10	10									
PTX0606071-01	10.0	1	NA	10	10	NA	6/9/06	40	NA	NA		[illegible]	KAB	SST

Analysis Performed
PCB ☑
B/N SVOA ☐
SVOA ☐
LL PAH ☐
PEST ☒
TPH/GC ☐
BIS-2 ☐
PAH ☐

Acid Washed: Y / N (Y circled)
H2SO4 ID# 2P060070TA
Cu Cleaned: Y / N (N circled)
Cu ID# NA
Florisiled: Y / N (N circled)
Lot# NA
Silica Column/Carbon prep: Y / N (Y circled) [initials] 6/9/06
Lot # NA* PISUB
CH_2Cl_2 lot # NA
NaOH ID# NA

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www.pacelabs.com

Pace Analytical Services, Inc.
1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

DETERMINATION OF PCDD/PCDF LEVELS

Prepared for:
ESS Laboratory
Attn: Jena Paola
185 Frances Avenue
Cranston, RI 02910-2211

ACCREDITED IN ACCORDANCE WITH nelac

This report contains 31 pages.

The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

Project: Chemical Analysis

Client Project Number: 0606113

REPORT OF LABORATORY ANALYSIS

ACCREDITED IN ACCORDANCE WITH nelac

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REPORT OF: CHEMICAL ANALYSES

PROJECT: PCDD/PCDF ANALYSES

DATE: July 5, 2006

ISSUED TO: ESS Laboratory
Attn: Jena Paola
185 Frances Avenue
Cranston, RI 02910-2211

REPORT NO: 06-1033484

INTRODUCTION

This report presents the results from the analyses performed on seventeen samples submitted by a representative of ESS Laboratory. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290.

SAMPLE IDENTIFICATION

Client ID	Sample Type	Date Received	PACE ID
0606113-01	Solid	06/09/06	1033484001
0606113-02	Solid	06/09/06	1033484002
0606113-03	Solid	06/09/06	1033484003
0606113-04	Solid	06/09/06	1033484004
0606113-05	Solid	06/09/06	1033484005
0606113-06	Solid	06/09/06	1033484006
0606113-07	Solid	06/09/06	1033484007
0606113-08	Solid	06/09/06	1033484008
0606113-09	Solid	06/09/06	1033484009
0606113-10	Solid	06/09/06	1033484010
0606113-11	Solid	06/09/06	1033484011
0606113-12	Solid	06/09/06	1033484012
0606113-13	Solid	06/09/06	1033484013
0606113-14	Solid	06/09/06	1033484014
0606113-15	Solid	06/09/06	1033484015
0606113-16	Solid	06/09/06	1033484016
0606113-17	Solid	06/09/06	1033484017

REPORT OF LABORATORY ANALYSIS

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Phone: 612.607.1700
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REPORT OF: CHEMICAL ANALYSES

PROJECT: PCDD/PCDF ANALYSES **DATE:** July 5, 2006

 REPORT NO: 06-1033484

RESULTS

The results are included in the following:

Appendix A – Chain of Custody Documentation
Appendix B – PCDD/PCDF Results

DISCUSSION

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 26-180%. With the exceptions of nine values, which were flagged "P" on the sample results tables, the labeled standard recoveries obtained for the samples were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

In some cases, interfering substances impacted the determinations of PCDD or PCDF congeners. The affected values were flagged "I" where incorrect isotope ratios were obtained, or "E" where polychlorinated diphenyl ethers were present.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results, found at the beginning of Appendix B, show the blank to be free of PCDDs and PCDFs at the reporting limits, with the exception of a trace level of Total TCDF. This was below the calibration range of the method. Sample levels similar to the corresponding blank level were flagged "B" on the results tables and may be, at least partially, attributed to the background. It should be noted that levels less than ten times the background are not generally considered to be statistically different from the background.

Laboratory and matrix spike samples were also prepared with the sample batch using clean sand or sample matrix that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 83-115%, with relative percent differences of 2.2-10.3%. These results indicate high degrees of accuracy and precision for these determinations. One labeled standard in the lab spike sample was recovered above the target range; the affected value was flagged "P" on the results table.

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Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

REPORT OF: CHEMICAL ANALYSES

PROJECT: PCDD/PCDF ANALYSES **DATE:** July 5, 2006

 REPORT NO: 06-1033484

DISCUSSION (Cont.)

The responses obtained for the labeled 1,2,3,7,8-PeCDF in calibration standard F60614B_18, and for the labeled OCDD in calibration standard analyses F60622B_16 and P60620B_11 were outside the target range. As specified in the method, the averages of the daily response factors for these compounds were used in the calculations for the samples from these runshifts. The affected values were flagged "*" on the results tables. It should be noted that the accuracy of the native congener determinations was not affected by these deviations.

REMARKS

The sample extracts will be retained for a period of 15 days from the date of this report and then discarded unless other arrangements are made. The raw mass spectral data will be archived on magnetic tape for a period of not less than one year. Questions regarding the data contained in this report may be directed to the author at the number provided below.

Pace Analytical Services, Inc.

Scott C. Unze
Project Manager, HRMS
(612) 607-6383

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1700 Elm Street
Minneapolis, MN 55414
Phone: 612.607.1700
Fax: 612.607.6444

TABLE 1. 2,3,7,8-TCDD Equivalency Factors (TEFs) for the Polychlorinated Dibenzo-p-dioxins and Dibenzofurans

Number	Compound(s)	TEF
1	2,3,7,8-TCDD	1.00
2	1,2,3,7,8-PeCDD	0.50
3	1,2,3,6,7,8-HxCDD	0.1
4	1,2,3,7,8,9-HxCDD	0.1
5	1,2,3,4,7,8-HxCDD	0.1
6	1,2,3,4,6,7,8-HpCDD	0.01
7	OCDD	0.001
8	* Total - TCDD	0.0
9	* Total - PeCDD	0.0
10	* Total - HxCDD	0.0
11	* Total - HpCDD	0.0
12	2,3,7,8-TCDF	0.10
13	1,2,3,7,8-PeCDF	0.05
14	2,3,4,7,8-PeCDF	0.5
15	1,2,3,6,7,8-HxCDF	0.1
16	1,2,3,7,8,9-HxCDF	0.1
17	1,2,3,4,7,8-HxCDF	0.1
18	2,3,4,6,7,8-HxCDF	0.1
19	1,2,3,4,6,7,8-HpCDF	0.01
20	1,2,3,4,7,8,9-HpCDF	0.01
21	OCDF	0.001
22	* Total - TCDF	0.0
23	* Total - PeCDF	0.0
24	* Total - HxCDF	0.0
25	* Total - HpCDF	0.0

*Excluding the 2,3,7,8-substituted congeners.

Reference: International Toxic Equivalence

REPORT OF LABORATORY ANALYSIS

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1700 Elm Street
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APPENDIX A

REPORT OF LABORATORY ANALYSIS

ESS Laboratory Pace Analytical CHAIN OF CUSTODY

1033484

Page ____ of ____

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

Turn Time ✓ Standard Other ____
If faster than 5 days, prior approval by laboratory is required # ____

State where samples were collected from:
MA (RI) CT NH NJ NY ME Other ____

Is this project for any of the following:
MA-MCP Navy USACE Other ____

Reporting Limits

ESS LAB PROJECT ID: 060613

Electronic Deliverable ___ Yes ___ No

Format: Excel__ Access__ PDF__ Other ____

Co. Name	Project #	Project Name (20 Char. or less)
Contact Person: Jena Paola	Address	
City / State / Zip	PO#	
Telephone #	Fax #	Email Address

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis: Dioxin/Furans	
	6-7-06	10:18				060613-01	1	1	G	X	001
	6-7-06	10:42				060613-02	1	1	G	X	002
	6-7-06	11:01				060613-03	1	1	G	X	003
	6-7-06	12:27				060613-04	1	1	G	X	004
	6-8-06	16:05				060613-05	1	1	G	X	005
	6-8-06	12:29				-06	1	1	G	X	006
	6-8-06	14:01				-07	1	1	G	X	007
	6-8-06	14:16				-08	1	1	G	X	008
	6-8-06	14:31				-09	1	1	G	X	009
	6-8-06	14:51				060613-10	1	1	G	X	010

Container Type: P-Poly (G-Glass) S-Sterile V-VOA

Matrix: (S-Soil) SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No

Seals Intact ___ Yes ___ No NA ✓

Cooler Temp: 5.7

Internal Use Only
[ ] Pickup
[ ] Technicians____

Preservation Code: (1- NP) 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
J. Davis	6-8-06 1800		6/9/06 9:15				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory Pace Analytical CHAIN OF CUSTODY

Page _____ of _____

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

Turn Time ___ Standard Other _____
If faster than 5 days, prior approval by laboratory is required # _____

State where samples were collected from:
MA (RI) CT NH NJ NY ME Other _____

Is this project for any of the following:
MA-MCP Navy USACE Other _____

Reporting Limits

ESS LAB PROJECT ID: 0606113

Electronic Deliverable ___ Yes ___ No
Format: Excel__ Access__ PDF__ Other _____

Co. Name | Project # | Project Name (20 Char. or less)

Contact Person: Jena Paola | Address

City | State | Zip | PO#

Telephone # | Fax # | Email Address

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Write Required Analysis: DIOXINS/Furans	
	6-8-06	15:05		X	S	0606113-11	1	1	G	X	011
	6-8-06	15:18		X	S	-12	1	1	G	X	012
	6-8-06	1525		X	S	-13	1	1	G	X	013
	6-8-06	1543		X	S	-14	1	1	G	X	014
	6-8-06	0952		X	S	-15	1	1	G	X	015
	6-8-06	0913		X	S	-16	1	1	G	X	016
	6-8-06	0744		X	S	0606113-17	1	1	G	X	017
	~~6-8-06~~	~~1641~~		STD		6-8-06					

Container Type: P-Poly (G)-Glass S-Sterile V-VOA | Matrix: (S)-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: X Yes ___ No | Internal Use Only
Seals Intact ___ Yes ___ No NA: X | [ ] Pickup
Cooler Temp: 5.7 | [ ] Technicians _____

Preservation Code: (1- NP), 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- _____

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	6-8-06 1800	[signature]	6/9/06 9:15				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

APPENDIX B

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Blank Analysis Results

Client - ESS Laboratory

Lab Sample ID	BLANK-9914	Matrix	Solid
Filename	F60614B_05	Dilution	NA
Total Amount Extracted	10.1 g	Extracted	06/12/2006
ICAL Date	05/31/2006	Analyzed	06/14/2006 11:09
CCal Filename(s)	F60614B_03 & F60614B_18	Injected By	SMT

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.200		2,3,7,8-TCDF-13C	2.00	96
Total TCDF	0.28	-----	0.200	J	2,3,7,8-TCDD-13C	2.00	119
					1,2,3,7,8-PeCDF-13C	2.00	79 *
2,3,7,8-TCDD	ND	-----	0.200		2,3,4,7,8-PeCDF-13C	2.00	86
Total TCDD	ND	-----	0.200		1,2,3,7,8-PeCDD-13C	2.00	125
					1,2,3,4,7,8-HxCDF-13C	2.00	94
1,2,3,7,8-PeCDF	ND	-----	0.990		1,2,3,6,7,8-HxCDF-13C	2.00	86
2,3,4,7,8-PeCDF	ND	-----	0.990		2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	ND	-----	0.990		1,2,3,7,8,9-HxCDF-13C	2.00	97
					1,2,3,4,7,8-HxCDD-13C	2.00	91
1,2,3,7,8-PeCDD	ND	-----	0.990		1,2,3,6,7,8-HxCDD-13C	2.00	77
Total PeCDD	ND	-----	0.990		1,2,3,4,6,7,8-HpCDF-13C	2.00	62
					1,2,3,4,7,8,9-HpCDF-13C	2.00	58
1,2,3,4,7,8-HxCDF	ND	-----	0.990		1,2,3,4,6,7,8-HpCDD-13C	2.00	67
1,2,3,6,7,8-HxCDF	ND	-----	0.990		OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	ND	-----	0.990				
1,2,3,7,8,9-HxCDF	ND	-----	0.990		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.990		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.990		2,3,7,8-TCDD-37Cl4	0.20	80
1,2,3,6,7,8-HxCDD	ND	-----	0.990				
1,2,3,7,8,9-HxCDD	ND	-----	0.990				
Total HxCDD	ND	-----	0.990				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.990		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.990		Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	0.990		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	0.990				
Total HpCDD	ND	-----	0.990				
OCDF	ND	-----	2.000				
OCDD	ND	-----	2.000				

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
LRL = Lower Reporting Limit
J = Concentration detected is below the calibration range
P = Recovery outside of target range
A = Detection Limit based on signal-to-noise measurement

I = Interference
E = PCDE Interference
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI024
Date Sampled: 06/07/06 10:18

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-01
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

REVISED

JUN 30 2006

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606113-01		
Lab Sample ID	1033484001		
Filename	F60626A_13		
Injected By	SMT		
Total Amount Extracted	20.1 g	Matrix	Soil
% Moisture	20.4	Dilution	50
Dry Weight Extracted	16.0 g	Collected	06/07/2006
ICAL Date	05/31/2006	Received	06/09/2006
CCal Filename(s)	F60625B_18 & F60626A_15	Extracted	06/12/2006
Method Blank ID	BLANK-9914	Analyzed	06/26/2006 20:53

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	6.3	2,3,7,8-TCDF-13C	2.00	103
Total TCDF	14	-----	6.3	2,3,7,8-TCDD-13C	2.00	98
				1,2,3,7,8-PeCDF-13C	2.00	102
2,3,7,8-TCDD	ND	-----	6.3	2,3,4,7,8-PeCDF-13C	2.00	92
Total TCDD	ND	-----	6.3	1,2,3,7,8-PeCDD-13C	2.00	91
				1,2,3,4,7,8-HxCDF-13C	2.00	123
1,2,3,7,8-PeCDF	ND	-----	31.0	1,2,3,6,7,8-HxCDF-13C	2.00	87
2,3,4,7,8-PeCDF	ND	-----	31.0	2,3,4,6,7,8-HxCDF-13C	2.00	95
Total PeCDF	36	-----	31.0	1,2,3,7,8,9-HxCDF-13C	2.00	75
				1,2,3,4,7,8-HxCDD-13C	2.00	98
1,2,3,7,8-PeCDD	ND	-----	31.0	1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	-----	31.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	75
				1,2,3,4,7,8,9-HpCDF-13C	2.00	64
1,2,3,4,7,8-HxCDF	ND	-----	31.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	71
1,2,3,6,7,8-HxCDF	ND	-----	31.0	OCDD-13C	4.00	67
2,3,4,6,7,8-HxCDF	ND	-----	31.0			
1,2,3,7,8,9-HxCDF	ND	-----	31.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	31.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	31.0	2,3,7,8-TCDD-37Cl4	0.20	95
1,2,3,6,7,8-HxCDD	ND	-----	31.0			
1,2,3,7,8,9-HxCDD	ND	-----	31.0			
Total HxCDD	ND	-----	31.0			
1,2,3,4,6,7,8-HpCDF	ND	-----	31.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	31.0	Equivalence: 0.21 ng/Kg		
Total HpCDF	ND	-----	31.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	31.0			
Total HpCDD	ND	-----	31.0			
OCDF	ND	-----	63.0			
OCDD	210	-----	63.0			

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI202
Date Sampled: 06/07/06 10:42

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-02
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

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JUN 30 2006

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606113-02		
Lab Sample ID	1033484002		
Filename	P60620A_07		
Injected By	SMT		
Total Amount Extracted	13.0 g	Matrix	Soil
% Moisture	13.5	Dilution	NA
Dry Weight Extracted	11.3 g	Collected	06/07/2006
ICAL Date	05/20/2006	Received	06/09/2006
CCal Filename(s)	P60620A_02 & P60620A_18	Extracted	06/12/2006
Method Blank ID	BLANK-9914	Analyzed	06/20/2006 15:28

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	1.3	-----	0.180		2,3,7,8-TCDF-13C	2.00	103
Total TCDF	17.0	-----	0.180		2,3,7,8-TCDD-13C	2.00	96
					1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	-----	0.180		2,3,4,7,8-PeCDF-13C	2.00	89
Total TCDD	2.7	-----	0.180		1,2,3,7,8-PeCDD-13C	2.00	101
					1,2,3,4,7,8-HxCDF-13C	2.00	98
1,2,3,7,8-PeCDF	ND	-----	0.890		1,2,3,6,7,8-HxCDF-13C	2.00	89
2,3,4,7,8-PeCDF	2.2	-----	0.890	J	2,3,4,6,7,8-HxCDF-13C	2.00	85
Total PeCDF	23.0	-----	0.890		1,2,3,7,8,9-HxCDF-13C	2.00	92
					1,2,3,4,7,8-HxCDD-13C	2.00	94
1,2,3,7,8-PeCDD	ND	-----	0.890		1,2,3,6,7,8-HxCDD-13C	2.00	98
Total PeCDD	1.4	-----	0.890	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	88
					1,2,3,4,7,8,9-HpCDF-13C	2.00	78
1,2,3,4,7,8-HxCDF	1.2	-----	0.890	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	104
1,2,3,6,7,8-HxCDF	ND	-----	0.890		OCDD-13C	4.00	87
2,3,4,6,7,8-HxCDF	1.5	-----	0.890	J			
1,2,3,7,8,9-HxCDF	ND	-----	0.890		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	14.0	-----	0.890		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.890		2,3,7,8-TCDD-37Cl4	0.20	89
1,2,3,6,7,8-HxCDD	ND	-----	0.890				
1,2,3,7,8,9-HxCDD	ND	-----	0.890				
Total HxCDD	4.8	-----	0.890				
1,2,3,4,6,7,8-HpCDF	4.8	-----	0.890		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.890		Equivalence: 1.6 ng/Kg		
Total HpCDF	7.0	-----	0.890		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	7.0	-----	0.890				
Total HpCDD	15.0	-----	0.890				
OCDF	3.9	-----	1.800	J			
OCDD	40.0	-----	1.800				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI002
Date Sampled: 06/07/06 11:01

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-03
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

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JUN 30 2006

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606113-03		
Lab Sample ID	1033484003		
Filename	P60620A_08		
Injected By	SMT		
Total Amount Extracted	20.2 g	Matrix	Soil
% Moisture	53.4	Dilution	NA
Dry Weight Extracted	9.42 g	Collected	06/07/2006
ICAL Date	05/20/2006	Received	06/09/2006
CCal Filename(s)	P60620A_02 & P60620A_18	Extracted	06/12/2006
Method Blank ID	BLANK-9914	Analyzed	06/20/2006 16:15

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	1.90	-----	0.210		2,3,7,8-TCDF-13C	2.00	88
Total TCDF	81.00	-----	0.210		2,3,7,8-TCDD-13C	2.00	83
					1,2,3,7,8-PeCDF-13C	2.00	73
2,3,7,8-TCDD	1.00	-----	0.210	J	2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	20.00	-----	0.210		1,2,3,7,8-PeCDD-13C	2.00	95
					1,2,3,4,7,8-HxCDF-13C	2.00	87
1,2,3,7,8-PeCDF	3.20	-----	1.100	J	1,2,3,6,7,8-HxCDF-13C	2.00	80
2,3,4,7,8-PeCDF	23.00	-----	1.100		2,3,4,6,7,8-HxCDF-13C	2.00	77
Total PeCDF	250.00	-----	1.100		1,2,3,7,8,9-HxCDF-13C	2.00	80
					1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	3.40	-----	1.100	J	1,2,3,6,7,8-HxCDD-13C	2.00	78
Total PeCDD	37.00	-----	1.100		1,2,3,4,6,7,8-HpCDF-13C	2.00	70
					1,2,3,4,7,8,9-HpCDF-13C	2.00	62
1,2,3,4,7,8-HxCDF	7.70	-----	1.100		1,2,3,4,6,7,8-HpCDD-13C	2.00	81
1,2,3,6,7,8-HxCDF	-----	72	1.100	E	OCDD-13C	4.00	66
2,3,4,6,7,8-HxCDF	5.70	-----	1.100				
1,2,3,7,8,9-HxCDF	4.90	-----	1.100	J	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	160.00	-----	1.100		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.50	-----	1.100	J	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	2.70	-----	1.100	J			
1,2,3,7,8,9-HxCDD	1.90	-----	1.100	J			
Total HxCDD	39.00	-----	1.100				
1,2,3,4,6,7,8-HpCDF	9.10	-----	1.100		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	2.10	-----	1.100	J	Equivalence: 17 ng/Kg		
Total HpCDF	22.00	-----	1.100		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	12.00	-----	1.100				
Total HpCDD	25.00	-----	1.100				
OCDF	4.70	-----	2.100	J			
OCDD	50.00	-----	2.100				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI023
Date Sampled: 06/07/06 12:27

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-04
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

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JUN 30 2006

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606113-04		
Lab Sample ID	1033484004		
Filename	P60620A_09		
Injected By	SMT		
Total Amount Extracted	13.2 g	Matrix	Soil
% Moisture	21.3	Dilution	NA
Dry Weight Extracted	10.4 g	Collected	06/07/2006
ICAL Date	05/20/2006	Received	06/09/2006
CCal Filename(s)	P60620A_02 & P60620A_18	Extracted	06/12/2006
Method Blank ID	BLANK-9914	Analyzed	06/20/2006 17:03

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.81	-----	0.190	J	2,3,7,8-TCDF-13C	2.00	93
Total TCDF	12.00	-----	0.190		2,3,7,8-TCDD-13C	2.00	89
					1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	-----	0.190		2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	2.20	-----	0.190		1,2,3,7,8-PeCDD-13C	2.00	99
					1,2,3,4,7,8-HxCDF-13C	2.00	93
1,2,3,7,8-PeCDF	ND	-----	0.970		1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	1.40	-----	0.970	J	2,3,4,6,7,8-HxCDF-13C	2.00	80
Total PeCDF	11.00	-----	0.970		1,2,3,7,8,9-HxCDF-13C	2.00	86
					1,2,3,4,7,8-HxCDD-13C	2.00	88
1,2,3,7,8-PeCDD	ND	-----	0.970		1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	ND	-----	0.970		1,2,3,4,6,7,8-HpCDF-13C	2.00	75
					1,2,3,4,7,8,9-HpCDF-13C	2.00	68
1,2,3,4,7,8-HxCDF	1.10	-----	0.970	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	88
1,2,3,6,7,8-HxCDF	ND	-----	0.970		OCDD-13C	4.00	75
2,3,4,6,7,8-HxCDF	1.10	-----	0.970	J			
1,2,3,7,8,9-HxCDF	ND	-----	0.970		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	10.00	-----	0.970		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.970		2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	0.970				
1,2,3,7,8,9-HxCDD	ND	-----	0.970				
Total HxCDD	2.70	-----	0.970	J			
1,2,3,4,6,7,8-HpCDF	9.40	-----	0.970		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.970		Equivalence: 1.2 ng/Kg		
Total HpCDF	14.00	-----	0.970		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	5.50	-----	0.970				
Total HpCDD	11.00	-----	0.970				
OCDF	6.90	-----	1.900	J			
OCDD	58.00	-----	1.900				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI021
Date Sampled: 06/08/06 16:05

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-05
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

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JUN 30 2006

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606113-05		
Lab Sample ID	1033484005		
Filename	P60620A_10		
Injected By	SMT		
Total Amount Extracted	13.0 g	Matrix	Soil
% Moisture	22.2	Dilution	NA
Dry Weight Extracted	10.1 g	Collected	06/08/2006
ICAL Date	05/20/2006	Received	06/09/2006
CCal Filename(s)	P60620A_02 & P60620A_18	Extracted	06/12/2006
Method Blank ID	BLANK-9914	Analyzed	06/20/2006 17:51

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	1.60	-----	0.200		2,3,7,8-TCDF-13C	2.00	90
Total TCDF	39.00	-----	0.200		2,3,7,8-TCDD-13C	2.00	88
					1,2,3,7,8-PeCDF-13C	2.00	88
2,3,7,8-TCDD	0.21	-----	0.200	J	2,3,4,7,8-PeCDF-13C	2.00	94
Total TCDD	7.90	-----	0.200		1,2,3,7,8-PeCDD-13C	2.00	118
					1,2,3,4,7,8-HxCDF-13C	2.00	96
1,2,3,7,8-PeCDF	1.70	-----	0.990	J	1,2,3,6,7,8-HxCDF-13C	2.00	89
2,3,4,7,8-PeCDF	5.00	-----	0.990		2,3,4,6,7,8-HxCDF-13C	2.00	86
Total PeCDF	53.00	-----	0.990		1,2,3,7,8,9-HxCDF-13C	2.00	88
					1,2,3,4,7,8-HxCDD-13C	2.00	90
1,2,3,7,8-PeCDD	ND	-----	0.990		1,2,3,6,7,8-HxCDD-13C	2.00	81
Total PeCDD	3.80	-----	0.990	J	1,2,3,4,6,7,8-HpCDF-13C	2.00	78
					1,2,3,4,7,8,9-HpCDF-13C	2.00	72
1,2,3,4,7,8-HxCDF	1.80	-----	0.990	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	96
1,2,3,6,7,8-HxCDF	2.30	-----	0.990	J	OCDD-13C	4.00	77
2,3,4,6,7,8-HxCDF	3.00	-----	0.990	J			
1,2,3,7,8,9-HxCDF	ND	-----	0.990		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	34.00	-----	0.990		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.990		2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	0.990				
1,2,3,7,8,9-HxCDD	ND	-----	0.990				
Total HxCDD	11.00	-----	0.990				
1,2,3,4,6,7,8-HpCDF	7.70	-----	0.990		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.990		Equivalence: 4.0 ng/Kg		
Total HpCDF	14.00	-----	0.990		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	14.00	-----	0.990				
Total HpCDD	28.00	-----	0.990				
OCDF	7.70	-----	2.000	J			
OCDD	100.00	-----	2.000				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI012
Date Sampled: 06/08/06 12:29

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-06
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

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JUN 30 2006

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606113-06		
Lab Sample ID	1033484006		
Filename	P60620A_11		
Injected By	SMT		
Total Amount Extracted	13.1 g	Matrix	Soil
% Moisture	5.5	Dilution	NA
Dry Weight Extracted	12.4 g	Collected	06/08/2006
ICAL Date	05/20/2006	Received	06/09/2006
CCal Filename(s)	P60620A_02 & P60620A_18	Extracted	06/12/2006
Method Blank ID	BLANK-9914	Analyzed	06/20/2006 18:39

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.160		2,3,7,8-TCDF-13C	2.00	94
Total TCDF	4.1	-----	0.160		2,3,7,8-TCDD-13C	2.00	90
					1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	-----	0.160		2,3,4,7,8-PeCDF-13C	2.00	89
Total TCDD	ND	-----	0.160		1,2,3,7,8-PeCDD-13C	2.00	108
					1,2,3,4,7,8-HxCDF-13C	2.00	95
1,2,3,7,8-PeCDF	ND	-----	0.810		1,2,3,6,7,8-HxCDF-13C	2.00	86
2,3,4,7,8-PeCDF	1.1	-----	0.810	J	2,3,4,6,7,8-HxCDF-13C	2.00	82
Total PeCDF	13.0	-----	0.810		1,2,3,7,8,9-HxCDF-13C	2.00	88
					1,2,3,4,7,8-HxCDD-13C	2.00	90
1,2,3,7,8-PeCDD	ND	-----	0.810		1,2,3,6,7,8-HxCDD-13C	2.00	83
Total PeCDD	ND	-----	0.810		1,2,3,4,6,7,8-HpCDF-13C	2.00	78
					1,2,3,4,7,8,9-HpCDF-13C	2.00	71
1,2,3,4,7,8-HxCDF	ND	-----	0.810		1,2,3,4,6,7,8-HpCDD-13C	2.00	94
1,2,3,6,7,8-HxCDF	-----	1.3	0.810	E	OCDD-13C	4.00	77
2,3,4,6,7,8-HxCDF	ND	-----	0.810				
1,2,3,7,8,9-HxCDF	ND	-----	0.810		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	6.3	-----	0.810		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.810		2,3,7,8-TCDD-37Cl4	0.20	85
1,2,3,6,7,8-HxCDD	ND	-----	0.810				
1,2,3,7,8,9-HxCDD	ND	-----	0.810				
Total HxCDD	ND	-----	0.810				
1,2,3,4,6,7,8-HpCDF	1.2	-----	0.810	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.810		Equivalence: 0.56 ng/Kg		
Total HpCDF	1.2	-----	0.810	J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	1.2	-----	0.810	J			
Total HpCDD	2.4	-----	0.810	J			
OCDF	ND	-----	1.600				
OCDD	11.0	-----	1.600				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI013
Date Sampled: 06/08/06 14:01

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-07
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

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JUN 30 2006

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606113-07		
Lab Sample ID	1033484007		
Filename	P60620A_12		
Injected By	SMT		
Total Amount Extracted	13.1 g	Matrix	Soil
% Moisture	6.9	Dilution	NA
Dry Weight Extracted	12.2 g	Collected	06/08/2006
ICAL Date	05/20/2006	Received	06/09/2006
CCal Filename(s)	P60620A_02 & P60620A_18	Extracted	06/12/2006
Method Blank ID	BLANK-9914	Analyzed	06/20/2006 19:27

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.160	2,3,7,8-TCDF-13C	2.00	89
Total TCDF	ND	-----	0.160	2,3,7,8-TCDD-13C	2.00	88
				1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	-----	0.160	2,3,4,7,8-PeCDF-13C	2.00	83
Total TCDD	ND	-----	0.160	1,2,3,7,8-PeCDD-13C	2.00	102
				1,2,3,4,7,8-HxCDF-13C	2.00	94
1,2,3,7,8-PeCDF	ND	-----	0.820	1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	ND	-----	0.820	2,3,4,6,7,8-HxCDF-13C	2.00	82
Total PeCDF	ND	-----	0.820	1,2,3,7,8,9-HxCDF-13C	2.00	86
				1,2,3,4,7,8-HxCDD-13C	2.00	89
1,2,3,7,8-PeCDD	ND	-----	0.820	1,2,3,6,7,8-HxCDD-13C	2.00	76
Total PeCDD	ND	-----	0.820	1,2,3,4,6,7,8-HpCDF-13C	2.00	79
				1,2,3,4,7,8,9-HpCDF-13C	2.00	75
1,2,3,4,7,8-HxCDF	ND	-----	0.820	1,2,3,4,6,7,8-HpCDD-13C	2.00	100
1,2,3,6,7,8-HxCDF	ND	-----	0.820	OCDD-13C	4.00	85
2,3,4,6,7,8-HxCDF	ND	-----	0.820			
1,2,3,7,8,9-HxCDF	ND	-----	0.820	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.820	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.820	2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	ND	-----	0.820			
1,2,3,7,8,9-HxCDD	ND	-----	0.820			
Total HxCDD	ND	-----	0.820			
1,2,3,4,6,7,8-HpCDF	ND	-----	0.820	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.820	Equivalence: 0.019 ng/Kg		
Total HpCDF	ND	-----	0.820	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	1.1	-----	0.820 J			
Total HpCDD	2.1	-----	0.820 J			
OCDF	ND	-----	1.600			
OCDD	8.4	-----	1.600			

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI014
Date Sampled: 06/08/06 14:16

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-08
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

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Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606113-08		
Lab Sample ID	1033484008		
Filename	P60620A_13		
Injected By	SMT		
Total Amount Extracted	13.1 g	Matrix	Soil
% Moisture	5.7	Dilution	NA
Dry Weight Extracted	12.3 g	Collected	06/08/2006
ICAL Date	05/20/2006	Received	06/09/2006
CCal Filename(s)	P60620A_02 & P60620A_18	Extracted	06/12/2006
Method Blank ID	BLANK-9914	Analyzed	06/20/2006 20:15

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.160		2,3,7,8-TCDF-13C	2.00	94
Total TCDF	0.35	-----	0.160	BJ	2,3,7,8-TCDD-13C	2.00	91
					1,2,3,7,8-PeCDF-13C	2.00	78
2,3,7,8-TCDD	ND	-----	0.160		2,3,4,7,8-PeCDF-13C	2.00	91
Total TCDD	ND	-----	0.160		1,2,3,7,8-PeCDD-13C	2.00	111
					1,2,3,4,7,8-HxCDF-13C	2.00	97
1,2,3,7,8-PeCDF	ND	-----	0.810		1,2,3,6,7,8-HxCDF-13C	2.00	88
2,3,4,7,8-PeCDF	ND	-----	0.810		2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF	1.50	-----	0.810	J	1,2,3,7,8,9-HxCDF-13C	2.00	94
					1,2,3,4,7,8-HxCDD-13C	2.00	93
1,2,3,7,8-PeCDD	ND	-----	0.810		1,2,3,6,7,8-HxCDD-13C	2.00	92
Total PeCDD	ND	-----	0.810		1,2,3,4,6,7,8-HpCDF-13C	2.00	89
					1,2,3,4,7,8,9-HpCDF-13C	2.00	84
1,2,3,4,7,8-HxCDF	ND	-----	0.810		1,2,3,4,6,7,8-HpCDD-13C	2.00	108
1,2,3,6,7,8-HxCDF	ND	-----	0.810		OCDD-13C	4.00	93
2,3,4,6,7,8-HxCDF	ND	-----	0.810				
1,2,3,7,8,9-HxCDF	ND	-----	0.810		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.810		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.810		2,3,7,8-TCDD-37Cl4	0.20	83
1,2,3,6,7,8-HxCDD	ND	-----	0.810				
1,2,3,7,8,9-HxCDD	ND	-----	0.810				
Total HxCDD	ND	-----	0.810				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.810		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.810		Equivalence: 0.016 ng/Kg		
Total HpCDF	ND	-----	0.810		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.85	-----	0.810	J			
Total HpCDD	0.85	-----	0.810	J			
OCDF	ND	-----	1.600				
OCDD	7.00	-----	1.600	J			

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI015
Date Sampled: 06/08/06 14:31

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-09
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

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JUN 30 2006

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606113-09		
Lab Sample ID	1033484009		
Filename	F60622B_08		
Injected By	SMT		
Total Amount Extracted	13.2 g	Matrix	Soil
% Moisture	9.5	Dilution	NA
Dry Weight Extracted	12.0 g	Collected	06/08/2006
ICAL Date	05/31/2006	Received	06/09/2006
CCal Filename(s)	F60622A_16 & F60622B_16	Extracted	06/12/2006
Method Blank ID	BLANK-9914	Analyzed	06/22/2006 17:22

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	0.85	-----	0.310	A	2,3,7,8-TCDF-13C	2.00	79	
Total TCDF	29.00	-----	0.170		2,3,7,8-TCDD-13C	2.00	91	
					1,2,3,7,8-PeCDF-13C	2.00	90	
2,3,7,8-TCDD	ND	-----	0.230	A	2,3,4,7,8-PeCDF-13C	2.00	94	
Total TCDD	2.40	-----	0.170		1,2,3,7,8-PeCDD-13C	2.00	121	
					1,2,3,4,7,8-HxCDF-13C	2.00	109	
1,2,3,7,8-PeCDF	ND	-----	0.840		1,2,3,6,7,8-HxCDF-13C	2.00	91	
2,3,4,7,8-PeCDF	3.20	-----	0.840	J	2,3,4,6,7,8-HxCDF-13C	2.00	82	
Total PeCDF	64.00	-----	0.840		1,2,3,7,8,9-HxCDF-13C	2.00	78	
					1,2,3,4,7,8-HxCDD-13C	2.00	89	
1,2,3,7,8-PeCDD	ND	-----	0.840		1,2,3,6,7,8-HxCDD-13C	2.00	69	
Total PeCDD	5.60	-----	0.840		1,2,3,4,6,7,8-HpCDF-13C	2.00	44	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	35	P
1,2,3,4,7,8-HxCDF	4.00	-----	0.840	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	45	
1,2,3,6,7,8-HxCDF	2.90	-----	0.840	J	OCDD-13C	4.00	29	P*
2,3,4,6,7,8-HxCDF	2.40	-----	0.840	J				
1,2,3,7,8,9-HxCDF	1.90	-----	0.840	J	1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	72.00	-----	0.840		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	0.840		2,3,7,8-TCDD-37Cl4	0.20	82	
1,2,3,6,7,8-HxCDD	1.80	-----	0.840	J				
1,2,3,7,8,9-HxCDD	1.10	-----	0.840	J				
Total HxCDD	20.00	-----	0.840					
1,2,3,4,6,7,8-HpCDF	9.20	-----	0.840		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	1.80	-----	0.840	J	Equivalence: 3.6 ng/Kg			
Total HpCDF	23.00	-----	0.840		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	15.00	-----	0.840					
Total HpCDD	30.00	-----	0.840					
OCDF	14.00	-----	1.700					
OCDD	270.00	-----	1.700					

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI016
Date Sampled: 06/08/06 14:51

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-10
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

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JUN 30 2006

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606113-10		
Lab Sample ID	1033484010		
Filename	P60620B_06		
Injected By	SMT		
Total Amount Extracted	13.2 g	Matrix	Soil
% Moisture	6.2	Dilution	NA
Dry Weight Extracted	12.4 g	Collected	06/08/2006
ICAL Date	05/20/2006	Received	06/09/2006
CCal Filename(s)	P60620A_18 & P60620B_11	Extracted	06/12/2006
Method Blank ID	BLANK-9914	Analyzed	06/21/2006 02:11

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	0.90	-----	0.20	A	2,3,7,8-TCDF-13C	2.00	92	
Total TCDF	27.00	-----	0.16		2,3,7,8-TCDD-13C	2.00	99	
					1,2,3,7,8-PeCDF-13C	2.00	79	
2,3,7,8-TCDD	0.22	-----	0.18	JA	2,3,4,7,8-PeCDF-13C	2.00	78	
Total TCDD	1.10	-----	0.16		1,2,3,7,8-PeCDD-13C	2.00	102	
					1,2,3,4,7,8-HxCDF-13C	2.00	180	P
1,2,3,7,8-PeCDF	-----	17.0	0.81	E	1,2,3,6,7,8-HxCDF-13C	2.00	140	P
2,3,4,7,8-PeCDF	6.60	-----	0.81		2,3,4,6,7,8-HxCDF-13C	2.00	120	
Total PeCDF	110.00	-----	0.81		1,2,3,7,8,9-HxCDF-13C	2.00	130	
					1,2,3,4,7,8-HxCDD-13C	2.00	146	P
1,2,3,7,8-PeCDD	ND	-----	0.81		1,2,3,6,7,8-HxCDD-13C	2.00	135	
Total PeCDD	ND	-----	0.81		1,2,3,4,6,7,8-HpCDF-13C	2.00	74	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	57	
1,2,3,4,7,8-HxCDF	1.20	-----	0.81	J	1,2,3,4,6,7,8-HpCDD-13C	2.00	94	
1,2,3,6,7,8-HxCDF	-----	4.6	0.81	E	OCDD-13C	4.00	47	*
2,3,4,6,7,8-HxCDF	-----	2.4	0.81	I				
1,2,3,7,8,9-HxCDF	-----	1.1	0.81	E	1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	51.00	-----	0.81		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	0.81		2,3,7,8-TCDD-37Cl4	0.20	89	
1,2,3,6,7,8-HxCDD	0.97	-----	0.81	J				
1,2,3,7,8,9-HxCDD	ND	-----	0.81					
Total HxCDD	6.10	-----	0.81					
1,2,3,4,6,7,8-HpCDF	4.50	-----	0.81		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	0.81		Equivalence: 4.0 ng/Kg			
Total HpCDF	9.70	-----	0.81		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	4.90	-----	0.81					
Total HpCDD	10.00	-----	0.81					
OCDF	-----	2.8	1.60	I				
OCDD	57.00	-----	1.60					

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI017
Date Sampled: 06/08/06 15:05

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-11
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

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JUN 30 2006

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606113-11		
Lab Sample ID	1033484011		
Filename	P60620B_07		
Injected By	SMT		
Total Amount Extracted	13.3 g	Matrix	Soil
% Moisture	9.0	Dilution	NA
Dry Weight Extracted	12.1 g	Collected	06/08/2006
ICAL Date	05/20/2006	Received	06/09/2006
CCal Filename(s)	P60620A_18 & P60620B_11	Extracted	06/12/2006
Method Blank ID	BLANK-9914	Analyzed	06/21/2006 02:59

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	0.73	-----	0.26	JA	2,3,7,8-TCDF-13C	2.00	99	
Total TCDF	22.00	-----	0.17		2,3,7,8-TCDD-13C	2.00	91	
					1,2,3,7,8-PeCDF-13C	2.00	89	
2,3,7,8-TCDD	0.22	-----	0.17	J	2,3,4,7,8-PeCDF-13C	2.00	92	
Total TCDD	4.60	-----	0.17		1,2,3,7,8-PeCDD-13C	2.00	115	
					1,2,3,4,7,8-HxCDF-13C	2.00	106	
1,2,3,7,8-PeCDF	1.20	-----	0.83	J	1,2,3,6,7,8-HxCDF-13C	2.00	85	
2,3,4,7,8-PeCDF	6.60	-----	0.83		2,3,4,6,7,8-HxCDF-13C	2.00	82	
Total PeCDF	39.00	-----	0.83		1,2,3,7,8,9-HxCDF-13C	2.00	84	
					1,2,3,4,7,8-HxCDD-13C	2.00	100	
1,2,3,7,8-PeCDD	ND	-----	0.83		1,2,3,6,7,8-HxCDD-13C	2.00	78	
Total PeCDD	12.00	-----	0.83		1,2,3,4,6,7,8-HpCDF-13C	2.00	61	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	46	
1,2,3,4,7,8-HxCDF	4.60	-----	0.83		1,2,3,4,6,7,8-HpCDD-13C	2.00	67	
1,2,3,6,7,8-HxCDF	3.40	-----	0.83	J	OCDD-13C	4.00	35	P*
2,3,4,6,7,8-HxCDF	2.20	-----	0.83	J				
1,2,3,7,8,9-HxCDF	2.10	-----	0.83	J	1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	47.00	-----	0.83		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	0.83		2,3,7,8-TCDD-37Cl4	0.20	88	
1,2,3,6,7,8-HxCDD	2.10	-----	0.83	J				
1,2,3,7,8,9-HxCDD	0.95	-----	0.83	J				
Total HxCDD	23.00	-----	0.83					
1,2,3,4,6,7,8-HpCDF	11.00	-----	0.83		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	2.00	-----	0.83	J	Equivalence: 5.8 ng/Kg			
Total HpCDF	22.00	-----	0.83		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	15.00	-----	0.83					
Total HpCDD	31.00	-----	0.83					
OCDF	9.60	-----	1.70					
OCDD	310.00	-----	1.70					

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI018
Date Sampled: 06/08/06 15:18

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-12
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

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JUN 30 2006

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606113-12		
Lab Sample ID	1033484012		
Filename	P60620B_08		
Injected By	SMT		
Total Amount Extracted	13.2 g	Matrix	Soil
% Moisture	6.5	Dilution	NA
Dry Weight Extracted	12.3 g	Collected	06/08/2006
ICAL Date	05/20/2006	Received	06/09/2006
CCal Filename(s)	P60620A_18 & P60620B_11	Extracted	06/12/2006
Method Blank ID	BLANK-9914	Analyzed	06/21/2006 03:47

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	0.18	-----	0.160	J	2,3,7,8-TCDF-13C	2.00	95	
Total TCDF	0.18	-----	0.160	BJ	2,3,7,8-TCDD-13C	2.00	92	
					1,2,3,7,8-PeCDF-13C	2.00	79	
2,3,7,8-TCDD	ND	-----	0.160		2,3,4,7,8-PeCDF-13C	2.00	85	
Total TCDD	ND	-----	0.160		1,2,3,7,8-PeCDD-13C	2.00	105	
					1,2,3,4,7,8-HxCDF-13C	2.00	98	
1,2,3,7,8-PeCDF	ND	-----	0.810		1,2,3,6,7,8-HxCDF-13C	2.00	83	
2,3,4,7,8-PeCDF	ND	-----	0.810		2,3,4,6,7,8-HxCDF-13C	2.00	80	
Total PeCDF	1.10	-----	0.810	J	1,2,3,7,8,9-HxCDF-13C	2.00	85	
					1,2,3,4,7,8-HxCDD-13C	2.00	88	
1,2,3,7,8-PeCDD	ND	-----	0.810		1,2,3,6,7,8-HxCDD-13C	2.00	80	
Total PeCDD	ND	-----	0.810		1,2,3,4,6,7,8-HpCDF-13C	2.00	65	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	52	
1,2,3,4,7,8-HxCDF	ND	-----	0.810		1,2,3,4,6,7,8-HpCDD-13C	2.00	72	
1,2,3,6,7,8-HxCDF	ND	-----	0.810		OCDD-13C	4.00	43	*
2,3,4,6,7,8-HxCDF	ND	-----	0.810					
1,2,3,7,8,9-HxCDF	ND	-----	0.810		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	ND	-----	0.810		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	0.810		2,3,7,8-TCDD-37Cl4	0.20	88	
1,2,3,6,7,8-HxCDD	ND	-----	0.810					
1,2,3,7,8,9-HxCDD	ND	-----	0.810					
Total HxCDD	ND	-----	0.810					
1,2,3,4,6,7,8-HpCDF	ND	-----	0.810		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	0.810		Equivalence: 0.036 ng/Kg			
Total HpCDF	ND	-----	0.810		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	1.00	-----	0.810	J				
Total HpCDD	2.00	-----	0.810	J				
OCDF	ND	-----	1.600					
OCDD	7.20	-----	1.600	J				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI019
Date Sampled: 06/08/06 15:25

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-13
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

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JUN 30 2006

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606113-13		
Lab Sample ID	1033484013		
Filename	P60620A_16		
Injected By	SMT		
Total Amount Extracted	13.2 g	Matrix	Soil
% Moisture	6.3	Dilution	NA
Dry Weight Extracted	12.4 g	Collected	06/08/2006
ICAL Date	05/20/2006	Received	06/09/2006
CCal Filename(s)	P60620A_02 & P60620A_18	Extracted	06/12/2006
Method Blank ID	BLANK-9914	Analyzed	06/20/2006 22:39

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	0.160		2,3,7,8-TCDF-13C	2.00	87
Total TCDF	ND	-----	0.160		2,3,7,8-TCDD-13C	2.00	87
					1,2,3,7,8-PeCDF-13C	2.00	73
2,3,7,8-TCDD	ND	-----	0.160		2,3,4,7,8-PeCDF-13C	2.00	90
Total TCDD	ND	-----	0.160		1,2,3,7,8-PeCDD-13C	2.00	106
					1,2,3,4,7,8-HxCDF-13C	2.00	90
1,2,3,7,8-PeCDF	ND	-----	0.810		1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	ND	-----	0.810		2,3,4,6,7,8-HxCDF-13C	2.00	82
Total PeCDF	ND	-----	0.810		1,2,3,7,8,9-HxCDF-13C	2.00	92
					1,2,3,4,7,8-HxCDD-13C	2.00	91
1,2,3,7,8-PeCDD	ND	-----	0.810		1,2,3,6,7,8-HxCDD-13C	2.00	90
Total PeCDD	ND	-----	0.810		1,2,3,4,6,7,8-HpCDF-13C	2.00	88
					1,2,3,4,7,8,9-HpCDF-13C	2.00	85
1,2,3,4,7,8-HxCDF	ND	-----	0.810		1,2,3,4,6,7,8-HpCDD-13C	2.00	107
1,2,3,6,7,8-HxCDF	ND	-----	0.810		OCDD-13C	4.00	94
2,3,4,6,7,8-HxCDF	ND	-----	0.810				
1,2,3,7,8,9-HxCDF	ND	-----	0.810		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	0.810		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.810		2,3,7,8-TCDD-37Cl4	0.20	82
1,2,3,6,7,8-HxCDD	ND	-----	0.810				
1,2,3,7,8,9-HxCDD	ND	-----	0.810				
Total HxCDD	ND	-----	0.810				
1,2,3,4,6,7,8-HpCDF	ND	-----	0.810		Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.810		Equivalence: 0.015 ng/Kg		
Total HpCDF	1.00	-----	0.810	J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	0.93	-----	0.810	J			
Total HpCDD	0.93	-----	0.810	J			
OCDF	ND	-----	1.600				
OCDD	5.90	-----	1.600	J			

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI020
Date Sampled: 06/08/06 15:43

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-14
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

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JUN 30 2006

Pace Analytical™

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606113-14		
Lab Sample ID	1033484014		
Filename	F60622B_06		
Injected By	SMT		
Total Amount Extracted	13.2 g	Matrix	Soil
% Moisture	9.9	Dilution	NA
Dry Weight Extracted	11.9 g	Collected	06/08/2006
ICAL Date	05/31/2006	Received	06/09/2006
CCal Filename(s)	F60622A_16 & F60622B_16	Extracted	06/12/2006
Method Blank ID	BLANK-9914	Analyzed	06/22/2006 15:42

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	0.75	-----	0.260	JA	2,3,7,8-TCDF-13C	2.00	99	
Total TCDF	21.00	-----	0.170		2,3,7,8-TCDD-13C	2.00	120	
					1,2,3,7,8-PeCDF-13C	2.00	101	
2,3,7,8-TCDD	0.19	-----	0.170	J	2,3,4,7,8-PeCDF-13C	2.00	96	
Total TCDD	4.90	-----	0.170		1,2,3,7,8-PeCDD-13C	2.00	124	
					1,2,3,4,7,8-HxCDF-13C	2.00	107	
1,2,3,7,8-PeCDF	-----	610	0.840	E	1,2,3,6,7,8-HxCDF-13C	2.00	91	
2,3,4,7,8-PeCDF	4.80	-----	0.840		2,3,4,6,7,8-HxCDF-13C	2.00	85	
Total PeCDF	65.00	-----	0.840		1,2,3,7,8,9-HxCDF-13C	2.00	84	
					1,2,3,4,7,8-HxCDD-13C	2.00	84	
1,2,3,7,8-PeCDD	1.40	-----	0.840	J	1,2,3,6,7,8-HxCDD-13C	2.00	71	
Total PeCDD	19.00	-----	0.840		1,2,3,4,6,7,8-HpCDF-13C	2.00	49	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	46	
1,2,3,4,7,8-HxCDF	6.20	-----	0.840		1,2,3,4,6,7,8-HpCDD-13C	2.00	53	
1,2,3,6,7,8-HxCDF	4.00	-----	0.840	J	OCDD-13C	4.00	36	P*
2,3,4,6,7,8-HxCDF	3.10	-----	0.840	J				
1,2,3,7,8,9-HxCDF	3.90	-----	0.840	J	1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	100.00	-----	0.840		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	0.840		2,3,7,8-TCDD-37Cl4	0.20	106	
1,2,3,6,7,8-HxCDD	3.30	-----	0.840	J				
1,2,3,7,8,9-HxCDD	1.80	-----	0.840	J				
Total HxCDD	41.00	-----	0.840					
1,2,3,4,6,7,8-HpCDF	13.00	-----	0.840		Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	2.70	-----	0.840	J	Equivalence: 6.4 ng/Kg			
Total HpCDF	31.00	-----	0.840		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	26.00	-----	0.840					
Total HpCDD	55.00	-----	0.840					
OCDF	18.00	-----	1.700					
OCDD	420.00	-----	1.700					

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI101
Date Sampled: 06/08/06 09:52

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-15
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

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JUN 3 0 2006

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606113-15		
Lab Sample ID	1033484015		
Filename	P60620A_14		
Injected By	SMT		
Total Amount Extracted	13.2 g	Matrix	Soil
% Moisture	14.6	Dilution	NA
Dry Weight Extracted	11.2 g	Collected	06/08/2006
ICAL Date	05/20/2006	Received	06/09/2006
CCal Filename(s)	P60620A_02 & P60620A_18	Extracted	06/12/2006
Method Blank ID	BLANK-9914	Analyzed	06/20/2006 21:03

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	1.1	-----	0.180		2,3,7,8-TCDF-13C	2.00	94
Total TCDF	19.0	-----	0.180		2,3,7,8-TCDD-13C	2.00	93
					1,2,3,7,8-PeCDF-13C	2.00	81
2,3,7,8-TCDD	ND	-----	0.180		2,3,4,7,8-PeCDF-13C	2.00	94
Total TCDD	2.0	-----	0.180		1,2,3,7,8-PeCDD-13C	2.00	109
					1,2,3,4,7,8-HxCDF-13C	2.00	99
1,2,3,7,8-PeCDF	ND	-----	0.890		1,2,3,6,7,8-HxCDF-13C	2.00	90
2,3,4,7,8-PeCDF	1.7	-----	0.890	J	2,3,4,6,7,8-HxCDF-13C	2.00	88
Total PeCDF	17.0	-----	0.890		1,2,3,7,8,9-HxCDF-13C	2.00	96
					1,2,3,4,7,8-HxCDD-13C	2.00	94
1,2,3,7,8-PeCDD	ND	-----	0.890		1,2,3,6,7,8-HxCDD-13C	2.00	92
Total PeCDD	ND	-----	0.890		1,2,3,4,6,7,8-HpCDF-13C	2.00	89
					1,2,3,4,7,8,9-HpCDF-13C	2.00	83
1,2,3,4,7,8-HxCDF	ND	-----	0.890		1,2,3,4,6,7,8-HpCDD-13C	2.00	107
1,2,3,6,7,8-HxCDF	-----	1.1	0.890	E	OCDD-13C	4.00	93
2,3,4,6,7,8-HxCDF	1.0	-----	0.890	J			
1,2,3,7,8,9-HxCDF	ND	-----	0.890		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	8.2	-----	0.890		1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.890		2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	ND	-----	0.890				
1,2,3,7,8,9-HxCDD	ND	-----	0.890				
Total HxCDD	1.4	-----	0.890	J			
1,2,3,4,6,7,8-HpCDF	3.6	-----	0.890	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.890		Equivalence: 1.2 ng/Kg		
Total HpCDF	5.1	-----	0.890		(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	3.6	-----	0.890	J			
Total HpCDD	7.7	-----	0.890				
OCDF	3.1	-----	1.800	J			
OCDD	25.0	-----	1.800				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI022
Date Sampled: 06/08/06 09:13

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-16
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

REVISED
JUN 30 2006

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606113-16		
Lab Sample ID	1033484016		
Filename	P60620B_09		
Injected By	SMT		
Total Amount Extracted	13.1 g	Matrix	Soil
% Moisture	8.4	Dilution	NA
Dry Weight Extracted	12.0 g	Collected	06/08/2006
ICAL Date	05/20/2006	Received	06/09/2006
CCal Filename(s)	P60620A_18 & P60620B_11	Extracted	06/12/2006
Method Blank ID	BLANK-9914	Analyzed	06/21/2006 04:35

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	0.26	-----	0.170	J	2,3,7,8-TCDF-13C	2.00	95	
Total TCDF	8.30	-----	0.170		2,3,7,8-TCDD-13C	2.00	91	
					1,2,3,7,8-PeCDF-13C	2.00	81	
2,3,7,8-TCDD	ND	-----	0.170		2,3,4,7,8-PeCDF-13C	2.00	81	
Total TCDD	0.31	-----	0.170	J	1,2,3,7,8-PeCDD-13C	2.00	102	
					1,2,3,4,7,8-HxCDF-13C	2.00	99	
1,2,3,7,8-PeCDF	ND	-----	0.830		1,2,3,6,7,8-HxCDF-13C	2.00	85	
2,3,4,7,8-PeCDF	2.60	-----	0.830	J	2,3,4,6,7,8-HxCDF-13C	2.00	83	
Total PeCDF	26.00	-----	0.830		1,2,3,7,8,9-HxCDF-13C	2.00	79	
					1,2,3,4,7,8-HxCDD-13C	2.00	96	
1,2,3,7,8-PeCDD	ND	-----	0.830		1,2,3,6,7,8-HxCDD-13C	2.00	79	
Total PeCDD	ND	-----	0.830		1,2,3,4,6,7,8-HpCDF-13C	2.00	52	
					1,2,3,4,7,8,9-HpCDF-13C	2.00	37	P
1,2,3,4,7,8-HxCDF	ND	-----	0.830		1,2,3,4,6,7,8-HpCDD-13C	2.00	59	
1,2,3,6,7,8-HxCDF	ND	-----	0.830		OCDD-13C	4.00	26	P*
2,3,4,6,7,8-HxCDF	ND	-----	0.830					
1,2,3,7,8,9-HxCDF	ND	-----	0.830		1,2,3,4-TCDD-13C	2.00	NA	
Total HxCDF	7.20	-----	0.830		1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	ND	-----	0.830		2,3,7,8-TCDD-37Cl4	0.20	87	
1,2,3,6,7,8-HxCDD	ND	-----	0.830					
1,2,3,7,8,9-HxCDD	ND	-----	0.830					
Total HxCDD	2.90	-----	0.830	J				
1,2,3,4,6,7,8-HpCDF	1.80	-----	0.830	J	Total 2,3,7,8-TCDD			
1,2,3,4,7,8,9-HpCDF	ND	-----	0.830		Equivalence: 1.4 ng/Kg			
Total HpCDF	4.30	-----	0.830		(Using ITE Factors)			
1,2,3,4,6,7,8-HpCDD	2.80	-----	0.830	J				
Total HpCDD	6.30	-----	0.830					
OCDF	-----	1.9	1.700	I				
OCDD	37.00	-----	1.700					

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site
Client Sample ID: SS-SI205
Date Sampled: 06/08/06 07:44

ESS Laboratory Work Order: 0606113
ESS Laboratory Sample ID: 0606113-17
Sample Matrix: Soil

Dioxins

Analyte	Results	Units	MRL	Method	DF	Analyst	Analyzed	I/V	F/V
Dioxin	See Attached								

REVISED
JUN 30 2006

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Analysis Results

Client - ESS Laboratory

Client's Sample ID	0606113-17		
Lab Sample ID	1033484017		
Filename	P60620A_15		
Injected By	SMT		
Total Amount Extracted	13.1 g	Matrix	Soil
% Moisture	11.2	Dilution	NA
Dry Weight Extracted	11.6 g	Collected	06/08/2006
ICAL Date	05/20/2006	Received	06/09/2006
CCal Filename(s)	P60620A_02 & P60620A_18	Extracted	06/12/2006
Method Blank ID	BLANK-9914	Analyzed	06/20/2006 21:51

Native Isomers	Conc ng/Kg	EMPC ng/Kg	LRL ng/Kg		Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.35	-----	0.170	J	2,3,7,8-TCDF-13C	2.00	91
Total TCDF	4.10	-----	0.170		2,3,7,8-TCDD-13C	2.00	89
					1,2,3,7,8-PeCDF-13C	2.00	77
2,3,7,8-TCDD	ND	-----	0.170		2,3,4,7,8-PeCDF-13C	2.00	91
Total TCDD	0.30	-----	0.170	J	1,2,3,7,8-PeCDD-13C	2.00	107
					1,2,3,4,7,8-HxCDF-13C	2.00	92
1,2,3,7,8-PeCDF	ND	-----	0.860		1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	ND	-----	0.860		2,3,4,6,7,8-HxCDF-13C	2.00	83
Total PeCDF	2.80	-----	0.860	J	1,2,3,7,8,9-HxCDF-13C	2.00	91
					1,2,3,4,7,8-HxCDD-13C	2.00	89
1,2,3,7,8-PeCDD	ND	-----	0.860		1,2,3,6,7,8-HxCDD-13C	2.00	90
Total PeCDD	ND	-----	0.860		1,2,3,4,6,7,8-HpCDF-13C	2.00	86
					1,2,3,4,7,8,9-HpCDF-13C	2.00	79
1,2,3,4,7,8-HxCDF	ND	-----	0.860		1,2,3,4,6,7,8-HpCDD-13C	2.00	103
1,2,3,6,7,8-HxCDF	ND	-----	0.860		OCDD-13C	4.00	98
2,3,4,6,7,8-HxCDF	ND	-----	0.860				
1,2,3,7,8,9-HxCDF	ND	-----	0.860		1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	1.00	-----	0.860	J	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	0.860		2,3,7,8-TCDD-37Cl4	0.20	86
1,2,3,6,7,8-HxCDD	ND	-----	0.860				
1,2,3,7,8,9-HxCDD	ND	-----	0.860				
Total HxCDD	ND	-----	0.860				
1,2,3,4,6,7,8-HpCDF	1.40	-----	0.860	J	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	0.860		Equivalence: 0.086 ng/Kg		
Total HpCDF	2.60	-----	0.860	J	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	1.90	-----	0.860	J			
Total HpCDD	3.60	-----	0.860	J			
OCDF	2.80	-----	1.700	J			
OCDD	15.00	-----	1.700				

Results reported on a dry weight basis
Conc = Concentration (Totals include 2,3,7,8-substituted isomers)
EMPC = Estimated Maximum Possible Concentration
A = Detection Limit based on signal-to-noise measurement
J = Concentration detected is below the calibration range
B = Less than 10 times higher than method blank level
P = Recovery outside of target range
Nn = Value obtained from additional analysis
EMPC values were excluded from the TEQ calculations.

LRL = Lower Reporting Limit
I = Interference
E = PCDE Interference
S = Saturated signal
ND = Not Detected
NA = Not Applicable
NC = Not Calculated
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Laboratory Control Spike Results

Client - ESS Laboratory

Lab Sample ID	LCS-9915		
Filename	F60614B_16	Matrix	Solid
Total Amount Extracted	10.0 g	Dilution	NA
ICAL Date	05/31/2006	Extracted	06/12/2006
CCal Filename(s)	F60614B_03 & F60614B_18	Analyzed	06/14/2006 20:18
Method Blank ID	BLANK-9914	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery	
2,3,7,8-TCDF	0.20	0.20	100	2,3,7,8-TCDF-13C	2.00	106	
				2,3,7,8-TCDD-13C	2.00	88	
				1,2,3,7,8-PeCDF-13C	2.00	89	*
2,3,7,8-TCDD	0.20	0.20	101	2,3,4,7,8-PeCDF-13C	2.00	98	
				1,2,3,7,8-PeCDD-13C	2.00	140	P
				1,2,3,4,7,8-HxCDF-13C	2.00	97	
1,2,3,7,8-PeCDF	1.00	1.11	111	1,2,3,6,7,8-HxCDF-13C	2.00	89	
2,3,4,7,8-PeCDF	1.00	1.03	103	2,3,4,6,7,8-HxCDF-13C	2.00	90	
				1,2,3,7,8,9-HxCDF-13C	2.00	101	
				1,2,3,4,7,8-HxCDD-13C	2.00	90	
1,2,3,7,8-PeCDD	1.00	0.96	96	1,2,3,6,7,8-HxCDD-13C	2.00	82	
				1,2,3,4,6,7,8-HpCDF-13C	2.00	66	
				1,2,3,4,7,8,9-HpCDF-13C	2.00	65	
1,2,3,4,7,8-HxCDF	1.00	0.94	94	1,2,3,4,6,7,8-HpCDD-13C	2.00	72	
1,2,3,6,7,8-HxCDF	1.00	1.02	102	OCDD-13C	4.00	80	
2,3,4,6,7,8-HxCDF	1.00	1.01	101				
1,2,3,7,8,9-HxCDF	1.00	0.95	95	1,2,3,4-TCDD-13C	2.00	NA	
				1,2,3,7,8,9-HxCDD-13C	2.00	NA	
1,2,3,4,7,8-HxCDD	1.00	1.09	109	2,3,7,8-TCDD-37Cl4	0.20	87	
1,2,3,6,7,8-HxCDD	1.00	1.10	110				
1,2,3,7,8,9-HxCDD	1.00	1.07	107				
1,2,3,4,6,7,8-HpCDF	1.00	1.13	113				
1,2,3,4,7,8,9-HpCDF	1.00	1.15	115				
1,2,3,4,6,7,8-HpCDD	1.00	0.93	93				
OCDF	2.00	2.19	110				
OCDD	2.00	1.97	98				

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range
X = Background subtracted value
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Pace Analytical™

Method 8290 Spike Sample Results

Client - ESS Laboratory

Client's Sample ID	0606113-13-MS		
Lab Sample ID	1033484013-MS		
Filename	P60620A_03	Matrix	Soil
Total Amount Extracted	13.2 g	Dilution	NA
ICAL Date	05/20/2006	Extracted	06/12/2006
CCal Filename(s)	P60620A_02 & P60620A_18	Analyzed	06/20/2006 13:15
Method Blank ID	BLANK-9914	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.18	92	2,3,7,8-TCDF-13C	2.00	84
				2,3,7,8-TCDD-13C	2.00	89
				1,2,3,7,8-PeCDF-13C	2.00	82
2,3,7,8-TCDD	0.20	0.19	97	2,3,4,7,8-PeCDF-13C	2.00	85
				1,2,3,7,8-PeCDD-13C	2.00	101
				1,2,3,4,7,8-HxCDF-13C	2.00	90
1,2,3,7,8-PeCDF	1.00	1.07	107	1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	1.00	1.00	100	2,3,4,6,7,8-HxCDF-13C	2.00	81
				1,2,3,7,8,9-HxCDF-13C	2.00	84
				1,2,3,4,7,8-HxCDD-13C	2.00	82
1,2,3,7,8-PeCDD	1.00	0.91	91	1,2,3,6,7,8-HxCDD-13C	2.00	87
				1,2,3,4,6,7,8-HpCDF-13C	2.00	76
				1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	1.00	0.95	95	1,2,3,4,6,7,8-HpCDD-13C	2.00	89
1,2,3,6,7,8-HxCDF	1.00	1.02	102	OCDD-13C	4.00	65
2,3,4,6,7,8-HxCDF	1.00	1.01	101			
1,2,3,7,8,9-HxCDF	1.00	1.03	103	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	1.03	103	2,3,7,8-TCDD-37Cl4	0.20	89
1,2,3,6,7,8-HxCDD	1.00	1.08	108			
1,2,3,7,8,9-HxCDD	1.00	1.04	104			
1,2,3,4,6,7,8-HpCDF	1.00	1.07	107			
1,2,3,4,7,8,9-HpCDF	1.00	1.12	112			
1,2,3,4,6,7,8-HpCDD	1.00	0.94	94			
OCDF	2.00	1.78	89			
OCDD	2.00	1.98	99			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range of 40-135%
X = Background subtracted value
E = PCDE Interference
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Spike Sample Results

Client - ESS Laboratory

Client's Sample ID	0606113-13-MSD		
Lab Sample ID	1033484013-MSD		
Filename	P60620A_04	Matrix	Soil
Total Amount Extracted	13.2 g	Dilution	NA
ICAL Date	05/20/2006	Extracted	06/12/2006
CCal Filename(s)	P60620A_02 & P60620A_18	Analyzed	06/20/2006 14:01
Method Blank ID	BLANK-9914	Injected By	SMT

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.17	85	2,3,7,8-TCDF-13C	2.00	82
				2,3,7,8-TCDD-13C	2.00	89
				1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	0.20	0.18	90	2,3,4,7,8-PeCDF-13C	2.00	82
				1,2,3,7,8-PeCDD-13C	2.00	94
				1,2,3,4,7,8-HxCDF-13C	2.00	91
1,2,3,7,8-PeCDF	1.00	0.96	96	1,2,3,6,7,8-HxCDF-13C	2.00	84
2,3,4,7,8-PeCDF	1.00	0.93	93	2,3,4,6,7,8-HxCDF-13C	2.00	81
				1,2,3,7,8,9-HxCDF-13C	2.00	86
				1,2,3,4,7,8-HxCDD-13C	2.00	86
1,2,3,7,8-PeCDD	1.00	0.85	85	1,2,3,6,7,8-HxCDD-13C	2.00	87
				1,2,3,4,6,7,8-HpCDF-13C	2.00	77
				1,2,3,4,7,8,9-HpCDF-13C	2.00	66
1,2,3,4,7,8-HxCDF	1.00	0.88	88	1,2,3,4,6,7,8-HpCDD-13C	2.00	88
1,2,3,6,7,8-HxCDF	1.00	0.96	96	OCDD-13C	4.00	69
2,3,4,6,7,8-HxCDF	1.00	0.95	95			
1,2,3,7,8,9-HxCDF	1.00	0.96	96	1,2,3,4-TCDD-13C	2.00	NA
				1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	1.00	0.97	97	2,3,7,8-TCDD-37Cl4	0.20	88
1,2,3,6,7,8-HxCDD	1.00	1.01	101			
1,2,3,7,8,9-HxCDD	1.00	0.98	98			
1,2,3,4,6,7,8-HpCDF	1.00	0.99	99			
1,2,3,4,7,8,9-HpCDF	1.00	1.03	103			
1,2,3,4,6,7,8-HpCDD	1.00	0.88	88			
OCDF	2.00	1.67	83			
OCDD	2.00	1.93	97			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
P = Recovery outside of target range of 40-135%
X = Background subtracted value
E = PCDE Interference
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

Report No.....1033484

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414

Tel: 612-607-1700
Fax: 612- 607-6444

Method 8290 Spike Sample Results

Client - ESS Laboratory

Client Sample ID	0606113-13			Dry Weights	
Lab Sample ID	1033484013	Sample Filename	P60620A_16	Sample Amount	12.4 g
MS ID	1033484013-MS	MS Filename	P60620A_03	MS Amount	12.4 g
MSD ID	1033484013-MSD	MSD Filename	P60620A_04	MSD Amount	12.4 g

Analyte	Sample Conc. ng/Kg	MS/MSD Qs (ng)	MS Qm (ng)	MSD Qm (ng)	RPD	Background Subtracted MS % Rec.	Background Subtracted MSD % Rec.	Background Subtracted RPD
2,3,7,8-TCDF	0.000	0.20	0.18	0.17	7.8	92	85	7.8
2,3,7,8-TCDD	0.000	0.20	0.19	0.18	7.8	97	90	7.8
1,2,3,7,8-PeCDF	0.000	1.00	1.07	0.96	10.3	107	96	10.3
2,3,4,7,8-PeCDF	0.000	1.00	1.00	0.93	7.2	100	93	7.2
1,2,3,7,8-PeCDD	0.000	1.00	0.91	0.85	6.5	91	85	6.5
1,2,3,4,7,8-HxCDF	0.000	1.00	0.95	0.88	7.9	95	88	7.9
1,2,3,6,7,8-HxCDF	0.000	1.00	1.02	0.96	6.1	102	96	6.1
2,3,4,6,7,8-HxCDF	0.000	1.00	1.01	0.95	5.9	101	95	5.9
1,2,3,7,8,9-HxCDF	0.000	1.00	1.03	0.96	7.1	103	96	7.1
1,2,3,4,7,8-HxCDD	0.000	1.00	1.03	0.97	6.3	103	97	6.3
1,2,3,6,7,8-HxCDD	0.000	1.00	1.08	1.01	6.1	108	101	6.1
1,2,3,7,8,9-HxCDD	0.000	1.00	1.04	0.98	6.1	104	98	6.1
1,2,3,4,6,7,8-HpCDF	0.000	1.00	1.07	0.99	7.8	107	99	7.8
1,2,3,4,7,8,9-HpCDF	0.000	1.00	1.12	1.03	8.4	112	103	8.4
1,2,3,4,6,7,8-HpCDD	0.934	1.00	0.94	0.88	6.9	93	87	7.0
OCDF	0.000	2.00	1.78	1.67	6.7	89	83	6.7
OCDD	5.910	2.00	1.98	1.93	2.2	95	93	2.3

Definitions

MS = Matrix Spike
MSD = Matrix Spike Duplicate
Qm = Quantity Measured
Qs = Quantity Spiked
% Rec. = Percent Recovery
RPD = Relative Percent Difference

CDD = Chlorinated dibenzo-p-dioxin
CDF = Chlorinated dibenzo-p-furan
T = Tetra
Pe = Penta
Hx = Hexa
Hp = Hepta
O = Octa

CERTIFICATE OF ANALYSIS

Client Name: MACTEC Engineering & Consulting, Inc.
Client Project ID: Providence Gorham Site ESS Laboratory Work Order: 0606113

Notes and Definitions

Z-08	See Attached
P	Percent difference between primary and confirmation results exceeds 40%.
+	Outside QC Limits.
ND	Analyte NOT DETECTED above the detection limit
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
mg/kg	Results reported as wet weight
TCLP	Toxicity Characteristic Leachate Procedure
I/V	Initial Volume
F/V	Final Volume
§	Subcontracted analysis; see attached report
TIC	A forward library search of the NBS Mass Spectral Library was performed on this sample using the McLafferty Probability Base Matching (PBM) Algorithm. An estimated concentration of non-TCL compounds tentatively identified is quantified by the internal standard method. The nearest internal standard free of interferences was used to quantify. A response factor of one was assumed. This search was inclusive of the ten largest peaks greater than ten percent of the nearest internal standard.
1	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
2	Range result excludes concentrations of target analytes eluting in that range.
3	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.
NR	No Recovery
¶	The state of RI does not grant certification for this method for non-potables.

Sample and Cooler Receipt Checklist

Client: Mactec
Client Project ID: _____
Shipped/Delivered Via: Client

ESS Project ID: 06060113
Date Project Due: 6/14/06
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **5.7**		16. Are ESS labels on correct containers?	**Yes|No**
Iced With: **Icepacks**		17. Were samples received intact?	**Yes|No**
6. Was COC included with samples?	Yes	ESS Sample IDs:	01-04
7. Was COC signed and dated by client?	Yes	Sub Lab:	Pace
8. Does the COC match the sample	Yes	Analysis:	TC Dioxins
9. Is COC complete and correct?	Yes	TAT:	STD

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?:_____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
1	Yes	8 oz Soil Jar	2	NP
2	Yes	4 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	2	NP
3	Yes	4 oz Soil Jar	1	NP
3	Yes	40 ml - VOA	1	MeOH
3	Yes	40 ml - VOA	2	other
3	Yes	8 oz Soil Jar	2	NP
4	Yes	4 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	2	NP

Completed By: JTD JTD Date/Time: 6-7 0C

Reviewed By: TO Date/Time: 6-7-06

Sample and Cooler Receipt Checklist

Client: Mactec
Client Project ID: _____
Shipped/Delivered Via: Client

ESS Project ID: 06060113
Date Project Due: 6/14/06
Days For Project: 5 Day

Items to be checked upon receipt:

1. Air Bill Manifest Present?	* No	10. Are the samples properly preserved?	Yes
Air No.:		11. Proper sample containers used?	Yes
2. Were Custody Seals Present?	No	12. Any air bubbles in the VOA vials?	N/A
3. Were Custody Seals Intact?	N/A	13. Holding times exceeded?	No
4. Is Radiation count < 100 CPM?	Yes	14. Sufficient sample volumes?	Yes
5. Is a cooler present?	Yes	15. Any Subcontracting needed?	* Yes
Cooler Temp: **5.7**		16. Are ESS labels on correct containers?	(Yes) | No
Iced With: **Icepacks**		17. Were samples received intact?	(Yes) | No
6. Was COC included with samples?	Yes	ESS Sample IDs:	01-07
7. Was COC signed and dated by client?	Yes	Sub Lab:	Pace
8. Does the COC match the sample	Yes	Analysis:	Dioxins
9. Is COC complete and correct?	Yes	TAT:	STd

18. Was there need to call project manager to discuss status? If yes, please explain.

_____

_____

_____

Who was called?: _____ By whom? _____

Sample Number	Properly Preserved	Container Type	# of Containers	Preservative
1	Yes	4 oz Soil Jar	1	NP
1	Yes	8 oz Soil Jar	2	NP
2	Yes	4 oz Soil Jar	1	NP
2	Yes	8 oz Soil Jar	2	NP
3	Yes	4 oz Soil Jar	1	NP
3	Yes	40 ml - VOA	1	MeOH
3	Yes	40 ml - VOA	2	other
3	Yes	8 oz Soil Jar	2	NP
4	Yes	4 oz Soil Jar	1	NP
4	Yes	8 oz Soil Jar	2	NP
5	Yes	4 oz Soil Jar	1	NP
5	Yes	40 ml - VOA	2	other
5	Yes	8 oz Soil Jar	2	NP
6	Yes	4 oz Soil Jar	1	NP
6	Yes	8 oz Soil Jar	2	NP
7	Yes	4 oz Soil Jar	1	NP
7	Yes	8 oz Soil Jar	2	NP
8	Yes	4 oz Soil Jar	1	NP
8	Yes	8 oz Soil Jar	2	NP
9	Yes	4 oz Soil Jar	1	NP
9	Yes	8 oz Soil Jar	2	NP
10	Yes	4 oz Soil Jar	1	NP
10	Yes	8 oz Soil Jar	2	NP
11	Yes	4 oz Soil Jar	1	NP
11	Yes	8 oz Soil Jar	2	NP

Sample and Cooler Receipt Checklist

Client: Mactec ESS Project ID: 06060113

12	Yes	4 oz Soil Jar	1	NP
12	Yes	8 oz Soil Jar	2	NP
13	Yes	4 oz Soil Jar	2	NP
13	Yes	8 oz Soil Jar	2	NP
14	Yes	4 oz Soil Jar	1	NP
14	Yes	8 oz Soil Jar	2	NP
15	Yes	4 oz Soil Jar	1	NP
15	Yes	8 oz Soil Jar	2	NP
16	Yes	4 oz Soil Jar	1	NP
16	Yes	8 oz Soil Jar	2	NP
17	Yes	4 oz Soil Jar	1	NP
17	Yes	8 oz Soil Jar	2	NP
18	Yes	1 L Glass	5	NP
18	Yes	500 ml Plastic	1	HNO3

Completed By: JTD JTD Date/Time: 6-8-06

Reviewed By: JD Date/Time: 6-8-06

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time ___ Standard Other ___
If faster than 5 days, prior approval by laboratory is required # ___

State where samples were collected from:
MA (RI) CT NH NJ NY ME Other ___

Is this project for any of the following:
MA-MCP Navy USACE Other ___

Reporting Limits

ESS LAB PROJECT ID: 0606113

Electronic Deliverable ___ Yes ___ No
Format: Excel ___ Access ___ PDF ___ Other ___

Co. Name: MACTEC
Project #:
Project Name (20 Char. or less): GORHAM SITE
Contact Person: CRIS RICARDI
Address:
City State Zip
PO#:
Telephone #: 207 775 5401
Fax #:
Email Address:

Circle and/or Write Required Analysis

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	8260 624 524.2	8021 MTBE/BTEX	VPH w/targets	8015 GRO	8100 EPH	EPH w/PAHs	EPH 4 Diesel	8081 Pesticides	8082 PCB	608 PCB	608 Pesticides	8270 SVOA	625	PAH 8270	RCRA8	PP13	TAL23	TCLP-RCRA8	NBC7	MCP-METALS(13)	MCP-METALS(13) w/Hg	VOA LL	VOA (meoH)	DIOXINS/FURANS	PAH/PEST/PCB	PAH/PEST/PCB/13 PPM MCP METALS
1	6-7-06	1018		X	S	SS-SI024		3	G																							1		2
2	6-7-06	1042		X	S	SS-SI202		3	G																							1	2	
3	6-7-06	1101		X	S	SS-SI007		6	G																						2	1	1		2
4	6-7-06	1227		X	S	SS-SI023		3	G																							1		2

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: (Yes) ___ No
Seals Intact ___ Yes ___ No NA: ___
Cooler Temp: 5.7

Internal Use Only
[ ] Pickup
[ ] Technicians ___

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___

Sampled by: ERIC SANDIN / Tom Hanlon

Comments: SS-SI024

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	6/7/06 1420	[signature]	6706 1420				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A

ESS Laboratory

Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

Page 1 of 2

Turn Time ___ Standard Other ___
If faster than 5 days, prior approval by laboratory is required # ___

State where samples were collected from:
MA (RI) CT NH NJ NY ME Other ___

Is this project for any of the following:
MA-MCP Navy USACE Other ___

Reporting Limits: STD 1-8-06

ESS LAB PROJECT ID: ~~0606136~~ 0606113

Electronic Deliverable ___ Yes ___ No
Format: Excel ___ Access ___ PDF ___ Other ___

Co. Name: MALTEC
Project #:
Project Name (20 Char. or less): Gorham Site
Contact Person: CHRIS RICARDI
Address:
City State Zip
PO#:
Telephone #: 207 775 5401
Fax #:
Email Address:

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	Circle and/or Write Required Analysis: 8260 VOA; 624; 524.2; 8021 MTBE/BTEX; 8015 GRO; VPH w/targets; 8100 TPH; 8015 DRO; EPH w/o PAHs; EPH w/PAHs; EPH 4 Diesel; 8081 Pesticides; 8082 PCB; 608 Pesticides; 608 PCB; 8270 SVOA; 625; PAH 8270; RCRA8 Metals; RCRA8; PP13; TAL 23; TCLP-RCRA8; NBC7; MCP-METALS (13); MCP-METALS (13) w/Hg; VOA 1 L; PAH/PEST/PCB/13 PPM Metals; PAH/PEST/PCB; DIOXIN/FURANS
5 1	6-8-06	1605		X	S	SS-SI021		5	G	2 2 1
6 2	6-8-06	1229			S	SS-SI012		3	G	2 1
7 3	6-8-06	1401			S	SS-SI013		3	G	2 1
8 4	6-8-06	1416			S	SS-SI014		3	G	2 1
9 5	6-8-06	1431			S	SS-SI015		3	G	2 1
10 6	6-8-06	1451			S	SS-SI016		3	G	2 1
11 7	6-8-06	1505			S	SS-SI017		3	G	2 1
12 8	6-8-06	1518			S	SS-SI018		3	G	2 1
13 9	6-8-06	1525			S	SS-SI019		4	G	2 2
14 10	6-8-06	1543		X	S	SS-SI020		3	G	2 1

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present: ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ___
Cooler Temp: 5.4

Internal Use Only
[ ] Pickup
[ ] Technicians ___

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___

Sampled by:

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	6/8 1700	[signature]	6-8-06/700				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

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www.esslaboratory.com

CHAIN OF CUSTODY

Turn Time ___ Standard Other ___
If faster than 5 days, prior approval by laboratory is required # ___
State where samples were collected from: MA (RI) CT NH NJ NY ME Other ___
Is this project for any of the following: MA-MCP Navy USACE Other ___

Reporting Limits: JTD 6-8-06
ESS LAB PROJECT ID: ~~0606136~~ 0606113
Electronic Deliverable ___ Yes ___ No
Format: Excel__ Access__ PDF__ Other__

Co. Name	Project #	Project Name (20 Char. or less)
MACTEL		GORHAM SITE

Contact Person	Address
CHRIS RICARDI	

City	State	Zip	PO#

Telephone #	Fax #	Email Address
207 775 5401		

Circle and/or Write Required Analysis

ESS LAB Sample#	Date	Collection Time	COMP	GRAB	MATRIX	Sample Identification (20 Char. or less)	Pres Code	Number of Containers	Type of Containers	8260 VOA / 624 / 524.2	8021 MTBEBTEX / 8015 GRO / VPH w/targets	8100 TPH / 8015 DRO	EPH w/o PAHs / EPH w/PAHs / EPH 4 Diesel	8081 Pesticides / 8082 PCB / 608 Pesticides / 608 PCB	8270 SVOA / 625 / PAH 8270	RCRA5 / RCRA8 / PP13 / TAL23	TCLP-RCRA8 / NBC7	MCP-METALS (13) / MCP-METALS (13) w/Hg	PAH/PEST/PCB	PAH/PEST/PCB/RPM Metals	DIOXIN/FURANS	VOA
15 11	6-8-06	0952		X	S	SS-SI101		3	G										2		1	
16 12	6-8-06	0713		X	S	SS-SI022		3	G											2	1	
17 13	6-8-06	0744		X	S	SS-SI205		3	G										2		1	
18 14	6-8-06	1041		X	AQ	RB-1		8	G/P											X		

Container Type: P-Poly G-Glass S-Sterile V-VOA
Matrix: S-Soil SD-Solid D-Sludge WW-Waste Water GW-Ground Water SW-Surface Water DW-Drinking Water O-Oil W-Wipes F-Filters

Cooler Present ✓ Yes ___ No
Seals Intact ___ Yes ___ No NA: ___
Cooler Temp: 5.4

Internal Use Only
[ ] Pickup
[ ] Technicians ___

Preservation Code: 1- NP, 2- HCl, 3- H_2SO_4, 4- HNO_3, 5- NaOH, 6- MeOH, 7- Asorbic Acid, 8- ZnAct, 9- ___
Sampled by:
Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
[signature]	6/8/06 1700	J. Davis	6-8-06 1700				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

*By circling MA-MCP, client acknowledges samples were collected in accordance with MADEP CAM VII A

Please fax all changes to Chain of Custody in writing.

1 (White) Lab Copy 2 (Yellow) Client Receipt

10/26/04 A