BC LABORATORIES, INC.

Work Order Number: 1720121

Laboratory Documentation Requirements

For Data Validation of

GC Analysis
Volatiles Analysis
Wet Chemistry Analysis

Prepared By

BC Laboratories

For AMEC Environmental & Infrastructure-

5023146096

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Certifications: CA ELAP #1186; NV #CA00014; AK UST101; OR ELAP #4032; DoD ELAP #66175

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Case Narrative

Analyses Requested: **RSK 175M**
Submission Number: 17-20121

Instrument ID: GC-V1
Model: Varian 3400

Column Type: RTX 502.2, 60m x 0.25mm ID, 1.4µm film thickness.

Samples were received refrigerated to <6°C upon arrival at BC Laboratories, Inc. Samples were checked for preservation. Where applicable, sample preservation was adjusted in the laboratory.

Holding Time: All analyses and extractions took place within holding times.

Calibration: Initial calibration criteria were met. Frequency and accuracy criteria for initial calibration verification (ICV) and continuing calibration verification (CCV) were met.

Blanks: Method blank was prepared and analyzed at the required frequency. No detection of analytes of interest took place at or above the PQL. Initial and continuing calibration blanks were analyzed at the required frequencies and on an as needed basis.

Laboratory Control Sample and Duplicate: Laboratory control sample analysis was performed at the required frequency. All parameters were within QC limits.

Case Narrative

Analyses Requested: 8260

Submission Number: 17-20121

Instrument ID: MS-V5
Model: HP5973/GC6890

Column Type: Rxi R-624 Sil MS 30m x 0.25mm ID, 1.4µm film thickness.

Samples were received refrigerated to <6°C upon arrival at BC Laboratories, Inc. Samples were checked for preservation. Where applicable, sample preservation was adjusted in the laboratory.

Holding Time: All analyses and extractions took place within holding times.

Calibration: Initial calibration criteria were met. Frequency and accuracy criteria for initial calibration verification (ICV) were met. Frequency and accuracy criteria for continuing calibration verification (CCV) were met except the recoveries for Bromomethane in 1713088-CCV4, 1713088-CCV7 and 17131964-CCV1 and the recoveries for Chloromethane in 1713088-CCV4 and 1713088-CCV7 were outside QC limits. Ending CCV criteria of fifty percent were met except the recoveries for Bromomethane in 1713088-CCV7 and 1713164-CCV4 were outside QC limits. Any compounds that were flagged, but not required, were not noted here.

Blanks: Method blank was prepared and analyzed at the required frequency. No detection of analytes of interest took place at or above the PQL. Initial and continuing calibration blanks were analyzed at the required frequencies and on an as needed basis.

Laboratory Control Sample: Laboratory control sample analysis was performed at the required frequency. All parameters for the requested compounds were within QC limits.

Matrix Spikes and Duplicates: Matrix spike analyses were performed at the required frequencies. All accuracy and precision requirements for the requested compounds were met.

Case Narrative

Analyses Requested: **Gen-Chem.**
Submission #: 17-20121

Method 300.0
Instrument ID: IC-2
Sample Volume(s): 20ml/20ml

Method 310.1
Instrument ID: MET-1
Sample Volume(s): 50ml/50ml

Method 353.2
Instrument ID: Kone-1
Volume(s): 20ml/20ml

Method 415.1
Instrument ID: TOC2
Sample Volume(s): 100ml/100ml

Method SM-4500SD
Instrument ID: SPEC06
Volume(s):25ml/25ml

Samples were received refrigerated to <6°C upon arrival at BC Laboratories, Inc. Samples were checked for preservation. Where applicable, sample preservation was adjusted in the laboratory.

Holding Time: All analyses and preparations took place within holding times.

Calibration: Initial calibration criteria were met. Frequency and accuracy criteria for initial and continuing calibration verifications were met.

Blanks: Method blank was prepared and analyzed at the required frequency. No detection of analytes of interest took place at or above the PQL. Initial and continuing calibration blanks were analyzed at the required frequencies and on an as needed basis.

Laboratory Control Sample: Laboratory control sample analysis was performed at the required frequency. All parameters were within QC limits.

Matrix Spikes and Duplicates: Matrix spike analyses were performed at the required frequencies. All accuracy and precision requirements were met.

Note: EPA Method 310.1 client requested sample 17-20121-1 was not used as QC sample.

CHAIN OF CUSTODY

MMEC Group
9177 Sky Park Court
San Diego, CA
(858) 278-3600

SHIP TO:
BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Attn: Tina Green
Lab Phone# 661-852-4204

DATE: 7/21/2017
COC #: COC170721
PAGE: 1 OF 2

17-20121

Project Name:	Alameda Basewide	Project Contact:	Marie Bevier	Bill To:	Amec Foster Wheeler	Disposal Instructions:	LAB
Project Number:	5023146096	Phone Number:	(503) 639-3400		9210 Sky Park Court, Suite 200	Shipment Method:	Courier
Project Manager:	Kevin Otness	Project Phase:	.03.****		San Diego, CA 92123	Waybill Number:	N/A

Sample Information / Methods for Analysis

No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	VOCs (EPA 8260B)	Diss.Gas- RSK175	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TOC (EPA 415.1)	RUSH 24 Hour	RUSH 48 Hour	RUSH 72 Hour	RUSH 5 Days	TOTAL BOTTLES	*CLD All Analyses
1	15-MW1_170721	07/21/17 08:30	WG	N	Y	X	X	X	X	X	X						
2	15-MW2_170721	07/21/17 10:20	WG	N	N	X											
3	15-MW3_170721	07/21/17 09:40	WG	N	N	X	X	X	X	X	X						
4	27EW-15_170721	07/21/17 11:40	WG	N	N	X											
5	27MW02_170721	07/21/17 12:25	WG	N	N	X											
6	27MW03_170721	07/21/17 09:20	WG	N	N	X	X	X	X	X	X						
7	27MW04_170721	07/21/17 11:45	WG	N	N	X	X	X	X	X	X						
8	27MW10_170721	07/21/17 10:26	WG	N	N	X	X	X	X	X	X						
9	27MW11_170721	07/21/17 10:50	WG	N	N	X	X	X	X	X	X						
10	27MW12_170721	07/21/17 11:35	WG	N	N	X	X	X	X	X	X						
11	M14-15_170721	07/21/17 08:20	WG	N	N	X	X	X	X	X	X						
12	M14-16_170721	07/21/17 09:15	WG	N	N	X	X	X	X	X	X						

SHORT HOLDING TIME
Cr^{+6} NO_2 NO_3 OP SS
DO Cl_2 BOD MBAS COT

CHAIN OF DISTRIBUTION
SUB-OUT

Sampler's Signature:		Date: 7/21/17	Time: 14:40
Relinquished By/Affiliation:		Date: 7/21/17	Time: 14:40
Received By:		Date: 7/21/17	Time: 14:40
Relinquished By/Affiliation:		Date: 7-21-17	Time: 1830
Received By:		Date: 7/21/17	Time: 18:30
Relinquished By/Affiliation:		Date: 7/21/17	Time: 2130
Received By (LAB):		Date: 7-21	Time: 2130

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	°C

Comments:
X=Analyze H=Hold Analysis Request

Report DL/LOD/LOQ with Navy NIRIS valid values
VOC Short List: Benzene and Ethylbenzene Only
Major Cations: Na^+, K^+, Ca^{++}, Mg^{++}

NUMBER OF COOLERS SENT:

CHAIN OF CUSTODY

17-20121

DATE: 7/21/2017
COC #: COC170721
PAGE: 2 OF 2

MMEC Group
9177 Sky Park Court
San Diego, CA
(858) 278-3600

SHIP TO:
BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Attn: Tina Green
Lab Phone# 661-852-4204

Project Name:	Alameda Basewide	Project Contact:	Marie Bevier	Bill To:	Amec Foster Wheeler	Disposal Instructions:	LAB
Project Number:	5023140090	Phone Number:	(503) 639-3400		9210 Sky Park Court, Suite 200	Shipment Method:	Courier
Project Manager:	Kevin Olness	Project Phase:	03.****		San Diego, CA 92123	Waybill Number:	N/A

Sample Information / Methods for Analysis

	No.	Sample ID	Date & Time Sampled	Matrix	Sample Type	MS/MSD	VOCs (EPA 8260B)	Diss.Gas- RSK175	Anions- (EPA 300.0)	Alkalinity (EPA 310.2)	Sulfide (EPA 376.2)	TOC (EPA 415.1)	24 Hour	48 Hour	72 Hour	5 Days	TOTAL BOTTLES	HOLD All Analyses
-13	1	27EW-12_170721	07/21/17 12:56	WG	N	N	X	X	X	X	X	X						
-14	2	27MW13_170721	07/21/17 13:10	WG	N	N	X	X	X	X	X	X						
-15	3	EB19_170721	07/21/17 14:20	WG	EB	N	X											
-16	4	EB20_170721	07/21/17 14:25	WG	EB	N	X											
-17	5	EB21_170721	07/21/17 14:30	WG	EB	N	X											
	6																	
	7																	
	8																	
	9																	
	10																	
	11																	
	12																	

Sampler's Signature:	Date: 7/21/17	Time: 14:40
Relinquished By/Affiliation:	Date: 7/21/17	Time: 14:40
Received By:	Date: 7/21/17	Time: 14:40
Relinquished By/Affiliation:	Date: 7-21-17	Time: 1830
Received By:	Date: 7/21/17	Time: 18:30
Relinquished By/Affiliation:	Date: 7/21/17	Time: 2130
Received By (LAB):	Date: 7/21	Time: 2130

For Lab Use

Does COC match samples:	Y or N
Broken Container:	Y or N
COC seal intact:	Y or N
Other problems:	Y or N
WSDOT contacted:	Y or N
Date contacted:	
Cooler Temperature at receipt:	°C

Comments:
X=Analyze H=Hold Analysis Request

Report DL/LOD/LOQ with Navy NIRIS valid values
VOC Short List: Benzene and Ethylbenzene Only
Major Cations: Na^+, K^+, Ca^{++}, Mg^{++}

NUMBER OF COOLERS SENT:

Chain of Custody and Cooler Receipt Form for 1720121 Page 3 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 5

Submission #: 17-2012

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 2080 Date/Time 7/21/17 21:27

Temperature: (A) 0.1 °C / (C) 0.4 °C Analyst Init RNR

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A-1	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL ~~504~~ VOC	J-R		DEF			DEF	DEF	DEF	DEF	DEF
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: M Date/Time: 7-21 2230
A = Actual / C = Corrected

Rev 21 05/23/2016
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Chain of Custody and Cooler Receipt Form for 1720121 Page 4 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 5

Submission #: 17-20121

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ BC Lab Field Service ☒ Other ☐ (Specify)_____	Ice Chest ☒ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐ (W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time 7/21/17 21:27

Temperature: (A) 0.1 °C / (C) 0.4 °C Analyst Init RNR

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC	ABC	ABC			
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL ~~504~~ NSK	VEF	VEF	VEF	VEF						
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: RA Date/Time: 7/21 2238

A = Actual / C = Corrected

Rev 21 06/23/2016
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Chain of Custody and Cooler Receipt Form for 1720121 Page 5 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 Of 5

Submission #: 17-20121

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
W / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 2080 Date/Time 7/21/17 21:27

Temperature: (A) 0.5 °C / (C) 0.8 °C Analyst Init RNR

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	ST									
4oz / 8oz / 16oz PE UNPRES		GH								
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	UVW	I								
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON	XYZ	J								
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: Date/Time: 7-21 2044
A = Actual / C = Corrected

Rev 21 05/23/2016
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Chain of Custody and Cooler Receipt Form for 1720121 Page 6 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 4 Of 5

Submission #: 17.20121

SHIPPING INFORMATION
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐
BC Lab Field Service ☒ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☒ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐
(W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received ☒ YES ☐ NO

Emissivity: 0.98 Container: Cylinder Thermometer ID: 2088 Date/Time 7/21/17 21:27
Temperature: (A) 0.1 °C / (C) 0.5 °C Analyst Init RNR

SAMPLE CONTAINERS	SAMPLE NUMBERS 6	7	8	9	10	11	12	13	9	10
QT PE UNPRES	G	G	G	G	G					
4oz / 8oz / 16oz PE UNPRES						GH	GH	GH		
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE	H	H	H	H	H	I	I	I		
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON	I	I	I	I	I	J	J	J		
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:
Sample Numbering Completed By: Date/Time: 7-21 1500
A = Actual / C = Corrected

Rev 21 05/23/2016
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Chain of Custody and Cooler Receipt Form for 1720121 Page 7 of 7

BC LABORATORIES INC. COOLER RECEIPT FORM Page 5 Of 5

Submission #: 17-20121

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☐ UPS ☐ Ontrac ☐ Hand Delivery ☐ BC Lab Field Service ☒ Other ☐ (Specify)_____	Ice Chest ☒ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐ (W) / S

Refrigerant: Ice ☒ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals Ice Chest ☐ Intact? Yes ☐ No ☐ Containers ☐ Intact? Yes ☐ No ☐ None ☒ Comments:

All samples received? Yes ☒ No ☐ All samples containers intact? Yes ☒ No ☐ Description(s) match COC? Yes ☒ No ☐

COC Received		
☒ YES ☐ NO	Emissivity: 0.95 Container: PE Thermometer ID: 2083 Temperature: (A) 0.5 °C / (C) 0.8 °C	Date/Time 7/21/17 21:27 Analyst Init RNR

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES				GN						
2oz Cr6+										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE				H						
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON				X1						
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: M Date/Time: 7-21 2300

A = Actual / C = Corrected

Rev 21 05/23/2016
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AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-20121**
Class: **GC**
Method: **RSK-175M**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSES DATA PACKAGE COVER PAGE

RSK-175M

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
15-MW1_170721	1720121-01
15-MW3_170721	1720121-03
27MW03_170721	1720121-06
27MW04_170721	1720121-07
27MW10_170721	1720121-08
27MW11_170721	1720121-09
27MW12_170721	1720121-10
M14-15_170721	1720121-11
M14-16_170721	1720121-12
27EW-12_170721	1720121-13
27MW13_170721	1720121-14

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 08-22-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

RSK-175M

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: GC-V1

Analyte	DL	LOD	LOQ	Units
Methane	0.00013	0.0006	0.001	mg/L
Ethane	0.00049	0.001	0.002	mg/L
Ethene	0.00058	0.001	0.002	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

15-MW1_170721

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720121-01	File ID:	03AUG12.D
Sampled:	07/21/17 08:30	Prepared:	08/01/17 14:06	Analyzed:	08/03/17 08:54
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[H0090	Sequence:	1713689	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.00060	0.00013	0.00060	0.0010	U
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

15-MW3_170721

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720121-03	File ID:	03AUG14.D
Sampled:	07/21/17 09:40	Prepared:	08/01/17 14:08	Analyzed:	08/03/17 09:03
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[H0091	Sequence:	1713689	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.030	0.00013	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

27MW03_170721

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720121-06	File ID:	03AUG17.D
Sampled:	07/21/17 09:20	Prepared:	08/01/17 14:08	Analyzed:	08/03/17 09:19
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[H0091	Sequence:	1713689	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.0017	0.00013	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

27MW04_170721

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720121-07	File ID:	03AUG18.D
Sampled:	07/21/17 11:45	Prepared:	08/01/17 14:08	Analyzed:	08/03/17 09:23
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[H0091	Sequence:	1713689	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.011	0.00013	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

27MW10_170721

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720121-08	File ID:	03AUG19.D
Sampled:	07/21/17 10:26	Prepared:	08/01/17 14:08	Analyzed:	08/03/17 09:29
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[H0091	Sequence:	1713689	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.053	0.00013	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

27MW11_170721

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720121-09	File ID:	03AUG20.D
Sampled:	07/21/17 10:50	Prepared:	08/01/17 14:08	Analyzed:	08/03/17 09:35
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[H0091	Sequence:	1713689	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.35	0.00013	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

27MW12_170721

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720121-10	File ID:	03AUG21.D
Sampled:	07/21/17 11:35	Prepared:	08/01/17 14:08	Analyzed:	08/03/17 09:45
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[H0091	Sequence:	1713689	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.00060	0.00013	0.00060	0.0010	U
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

M14-15_170721

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720121-11	File ID:	03AUG24.D
Sampled:	07/21/17 08:20	Prepared:	08/01/17 14:08	Analyzed:	08/03/17 10:25
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[H0091	Sequence:	1713689	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.12	0.00013	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

M14-16_170721

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720121-12	File ID:	03AUG25.D
Sampled:	07/21/17 09:15	Prepared:	08/01/17 14:08	Analyzed:	08/03/17 10:38
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[H0091	Sequence:	1713689	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.040	0.00013	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

27EW-12_170721

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720121-13	File ID:	03AUG26.D
Sampled:	07/21/17 12:56	Prepared:	08/01/17 14:08	Analyzed:	08/03/17 11:01
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[H0091	Sequence:	1713689	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.043	0.00013	0.00060	0.0010	
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
RSK-175M

27MW13_170721

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720121-14	File ID:	03AUG27.D
Sampled:	07/21/17 13:10	Prepared:	08/01/17 14:08	Analyzed:	08/03/17 11:05
Solids:		Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Batch:	B[H0091	Sequence:	1713689	Calibration:	1702007
Instrument:	GC-V1				

CAS NO.	COMPOUND	DILUTION	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	1	0.00060	0.00013	0.00060	0.0010	U
74-84-0	Ethane	1	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	1	0.0010	0.00058	0.0010	0.0020	U

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

RSK-175M

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[H0090
Batch Matrix: Water
Preparation: RSK-175M

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
15-MW1_170721	1720121-01	03AUG12.D	08/01/17 14:06	
Blank	B[H0090-BLK1	03AUG04.D	08/01/17 14:06	
LCS	B[H0090-BS1	03AUG05.D	08/01/17 14:06	
LCS Dup	B[H0090-BSD1	03AUG06.D	08/01/17 14:06	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

RSK-175M

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[H0091
Batch Matrix: Water
Preparation: RSK-175M

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
15-MW3_170721	1720121-03	03AUG14.D	08/01/17 14:08	
27MW03_170721	1720121-06	03AUG17.D	08/01/17 14:08	
27MW04_170721	1720121-07	03AUG18.D	08/01/17 14:08	
27MW10_170721	1720121-08	03AUG19.D	08/01/17 14:08	
27MW11_170721	1720121-09	03AUG20.D	08/01/17 14:08	
27MW12_170721	1720121-10	03AUG21.D	08/01/17 14:08	
M14-15_170721	1720121-11	03AUG24.D	08/01/17 14:08	
M14-16_170721	1720121-12	03AUG25.D	08/01/17 14:08	
27EW-12_170721	1720121-13	03AUG26.D	08/01/17 14:08	
27MW13_170721	1720121-14	03AUG27.D	08/01/17 14:08	
Blank	B[H0091-BLK1	03AUG07.D	08/01/17 14:08	
LCS	B[H0091-BS1	03AUG08.D	08/01/17 14:08	
LCS Dup	B[H0091-BSD1	03AUG09.D	08/01/17 14:08	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
RSK-175M

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[H0090-BLK1	File ID:	03AUG04.D
Prepared:	08/01/17 14:06	Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Analyzed:	08/03/17 07:43	Instrument:	GC-V1		
Batch:	B[H0090	Sequence:	1713689	Calibration:	1702007

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	0.00060	0.00013	0.00060	0.0010	U
74-84-0	Ethane	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	0.0010	0.00058	0.0010	0.0020	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
RSK-175M

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[H0091-BLK1	File ID:	03AUG07.D
Prepared:	08/01/17 14:08	Preparation:	RSK-175M	Initial/Final:	1 ml / 1 ml
Analyzed:	08/03/17 07:55	Instrument:	GC-V1		
Batch:	B[H0091	Sequence:	1713689	Calibration:	1702007

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
74-82-8	Methane	0.00060	0.00013	0.00060	0.0010	U
74-84-0	Ethane	0.0010	0.00049	0.0010	0.0020	U
74-85-1	Ethene	0.0010	0.00058	0.0010	0.0020	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
RSK-175M

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[H0090
Laboratory ID: B[H0090-BS1
Preparation: RSK-175M
Initial/Final: 1 ml / 1 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Methane	0.010843	0.011667	108	73 - 125
Ethane	0.021736	0.023980	110	74 - 131
Ethene	0.028446	0.027905	98.1	72 - 133

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Methane	0.010843	0.010718	98.8	8.48	20	73 - 125
Ethane	0.021736	0.024615	113	2.61	20	74 - 131
Ethene	0.028446	0.029025	102	3.94	20	72 - 133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
RSK-175M

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[H0091
Laboratory ID: B[H0091-BS1
Preparation: RSK-175M
Initial/Final: 1 ml / 1 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Methane	0.010843	0.010300	95.0	73 - 125
Ethane	0.021736	0.021676	99.7	74 - 131
Ethene	0.028446	0.028955	102	72 - 133

COMPOUND	SPIKE ADDED (mg/L)	LCSD CONCENTRATION (mg/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Methane	0.010843	0.010456	96.4	1.50	20	73 - 125
Ethane	0.021736	0.024097	111	10.6	20	74 - 131
Ethene	0.028446	0.027844	97.9	3.91	20	72 - 133

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1701454	Instrument:	GC-V1
Matrix:	Water	Calibration:	1702007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Cal Standard	1701454-CAL4	27JAN02.D	01/27/17 07:43
Cal Standard	1701454-CAL3	27JAN03.D	01/27/17 07:47
Cal Standard	1701454-CAL2	27JAN04.D	01/27/17 07:52
Cal Standard	1701454-CAL1	27JAN05.D	01/27/17 07:56
Initial Cal Check	1701454-ICV1	27JAN06.D	01/27/17 08:40
Initial Cal Blank	1701454-ICB1	27JAN07.D	01/27/17 08:45

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

RSK-175M

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713689
Instrument: GC-V1
Matrix: Water
Calibration: 1702007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1713689-ICV1	27JAN06.D	01/27/17 08:40
Initial Cal Blank	1713689-ICB1	27JAN07.D	01/27/17 08:45
Calibration Check	1713689-CCV1	03AUG02.D	08/03/17 07:34
Calibration Blank	1713689-CCB1	03AUG03.D	08/03/17 07:38
Blank	B[H0090-BLK1	03AUG04.D	08/03/17 07:43
LCS	B[H0090-BS1	03AUG05.D	08/03/17 07:47
LCS Dup	B[H0090-BSD1	03AUG06.D	08/03/17 07:51
Blank	B[H0091-BLK1	03AUG07.D	08/03/17 07:55
LCS	B[H0091-BS1	03AUG08.D	08/03/17 07:59
LCS Dup	B[H0091-BSD1	03AUG09.D	08/03/17 08:04
Calibration Check	1713689-CCV2	03AUG10.D	08/03/17 08:13
Calibration Blank	1713689-CCB2	03AUG11.D	08/03/17 08:21
15-MW1_170721	1720121-01	03AUG12.D	08/03/17 08:54
15-MW3_170721	1720121-03	03AUG14.D	08/03/17 09:03
27MW03_170721	1720121-06	03AUG17.D	08/03/17 09:19
27MW04_170721	1720121-07	03AUG18.D	08/03/17 09:23
27MW10_170721	1720121-08	03AUG19.D	08/03/17 09:29
27MW11_170721	1720121-09	03AUG20.D	08/03/17 09:35
27MW12_170721	1720121-10	03AUG21.D	08/03/17 09:45
Calibration Check	1713689-CCV3	03AUG22.D	08/03/17 10:10
Calibration Blank	1713689-CCB3	03AUG23.D	08/03/17 10:17
M14-15_170721	1720121-11	03AUG24.D	08/03/17 10:25
M14-16_170721	1720121-12	03AUG25.D	08/03/17 10:38
27EW-12_170721	1720121-13	03AUG26.D	08/03/17 11:01
27MW13_170721	1720121-14	03AUG27.D	08/03/17 11:05
Calibration Check	1713689-CCV4	03AUG34.D	08/03/17 12:08

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1713689	Instrument:	GC-V1
Matrix:	Water	Calibration:	1702007

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Blank	1713689-CCB4	03AUG35.D	08/03/17 12:13
Calibration Check	1713689-CCV5	03AUG38.D	08/03/17 12:57
Calibration Blank	1713689-CCB5	03AUG39.D	08/03/17 13:02

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	27JAN06.D	Calibration Date:	01/27/17 07:43
Sequence:	1701454	Injection Date:	01/27/17
Lab Sample ID:	1701454-ICV1	Injection Time:	08:40

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	12.174	605292.5	679565.1		12.3	15
Ethane	A	21.736	24.956	580938.9	666976.9		14.8	15
Ethene	A	28.446	31.820	402477.4	450214.1		11.9	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	27JAN06.D	Calibration Date:	01/27/17 07:43
Sequence:	1713689	Injection Date:	01/27/17
Lab Sample ID:	1713689-ICV1	Injection Time:	08:40

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	12.174	605292.5	679565.1		12.3	15
Ethane	A	21.736	24.956	580938.9	666976.9		14.8	15
Ethene	A	28.446	31.820	402477.4	450214.1		11.9	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	03AUG02.D	Calibration Date:	01/27/17 07:43
Sequence:	1713689	Injection Date:	08/03/17
Lab Sample ID:	1713689-CCV1	Injection Time:	07:34

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	10.784	605292.5	602026.3		-0.5	15
Ethane	A	21.736	24.884	580938.9	665038.2		14.5	15
Ethene	A	28.446	29.101	402477.4	411738.7		2.3	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	03AUG10.D	Calibration Date:	01/27/17 07:43
Sequence:	1713689	Injection Date:	08/03/17
Lab Sample ID:	1713689-CCV2	Injection Time:	08:13

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	10.524	605292.5	587515.3		-2.9	15
Ethane	A	21.736	24.472	580938.9	654032.5		12.6	15
Ethene	A	28.446	27.999	402477.4	396158		-1.6	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	03AUG22.D	Calibration Date:	01/27/17 07:43
Sequence:	1713689	Injection Date:	08/03/17
Lab Sample ID:	1713689-CCV3	Injection Time:	10:10

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	10.222	605292.5	570626.4		-5.7	15
Ethane	A	21.736	24.229	580938.9	647531.7		11.5	15
Ethene	A	28.446	27.602	402477.4	390535		-3.0	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	03AUG34.D	Calibration Date:	01/27/17 07:43
Sequence:	1713689	Injection Date:	08/03/17
Lab Sample ID:	1713689-CCV4	Injection Time:	12:08

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	10.759	605292.5	600619.4		-0.8	15
Ethane	A	21.736	24.377	580938.9	651489.2		12.1	15
Ethene	A	28.446	28.516	402477.4	403461.6		0.2	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	GC-V1	Calibration:	1702007
Lab File ID:	03AUG38.D	Calibration Date:	01/27/17 07:43
Sequence:	1713689	Injection Date:	08/03/17
Lab Sample ID:	1713689-CCV5	Injection Time:	12:57

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Methane	A	10.843	10.225	605292.5	570810.6		-5.7	15
Ethane	A	21.736	24.436	580938.9	653062.2		12.4	15
Ethene	A	28.446	27.458	402477.4	388494.7		-3.5	15

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION STANDARDS

RSK-175M

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1701454	Instrument:	GC-V1
Calibration:	1702007		

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
7B07024	RSK-175M CAL4	1701454-CAL4	27JAN02.D	01/27/17 07:43
7B07023	RSK-175M CAL3	1701454-CAL3	27JAN03.D	01/27/17 07:47
7B07022	RSK-175M CAL2	1701454-CAL2	27JAN04.D	01/27/17 07:52
7B07021	RSK-175M CAL1	1701454-CAL1	27JAN05.D	01/27/17 07:56

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION DATA
RSK-175M

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Calibration: 1702007
Matrix: Water

SDG: 17-20121
Project: Alameda
Instrument: GC-V1
Calibration Date: 01/27/17 07:43

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methane	1.0843	637975.6	10.843	692654	108.43	493653.4	542.15	596887.1				
Ethane	2.1736	586625.4	21.736	661756.1	217.36	501173.7	1086.8	574200.6				
Ethene	2.8446	439934.3	28.446	440075.9	284.46	333630.7	1422.3	396268.7				

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION DATA (Continued)

RSK-175M

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1702007
Instrument: GC-V1
Matrix: Water
Calibration Date: 01/27/17 07:43

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Methane	605292.5	13.89926	0.73	1.372967E-02			20	
Ethane	580938.9	11.31896	2.0825	0.4599198			20	
Ethene	402477.4	12.50156	1.7325	0.5526404			20	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

HOLDING TIME SUMMARY
RSK-175M

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
15-MW1_170721	07/21/17 08:30	07/21/17 21:30	08/01/17 14:06	13.00	14.00	08/03/17 08:54	13.00	14.00	
15-MW3_170721	07/21/17 09:40	07/21/17 21:30	08/01/17 14:08	13.00	14.00	08/03/17 09:03	13.00	14.00	
27MW03_170721	07/21/17 09:20	07/21/17 21:30	08/01/17 14:08	13.00	14.00	08/03/17 09:19	13.00	14.00	
27MW04_170721	07/21/17 11:45	07/21/17 21:30	08/01/17 14:08	13.00	14.00	08/03/17 09:23	13.00	14.00	
27MW10_170721	07/21/17 10:26	07/21/17 21:30	08/01/17 14:08	13.00	14.00	08/03/17 09:29	13.00	14.00	
27MW11_170721	07/21/17 10:50	07/21/17 21:30	08/01/17 14:08	13.00	14.00	08/03/17 09:35	13.00	14.00	
27MW12_170721	07/21/17 11:35	07/21/17 21:30	08/01/17 14:08	13.00	14.00	08/03/17 09:45	13.00	14.00	
M14-15_170721	07/21/17 08:20	07/21/17 21:30	08/01/17 14:08	13.00	14.00	08/03/17 10:25	13.00	14.00	
M14-16_170721	07/21/17 09:15	07/21/17 21:30	08/01/17 14:08	13.00	14.00	08/03/17 10:38	13.00	14.00	
27EW-12_170721	07/21/17 12:56	07/21/17 21:30	08/01/17 14:08	13.00	14.00	08/03/17 11:01	13.00	14.00	
27MW13_170721	07/21/17 13:10	07/21/17 21:30	08/01/17 14:08	13.00	14.00	08/03/17 11:05	13.00	14.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument GC-V1

Raw Data - Samples

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG12.D Vial: 12
Acq On : 3 Aug 2017 8:54 am Operator: JH2
Sample : 1720121-01 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:01 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) m	Methane	0.00	0	N.D.	ug/L	d
2) m	Ethene	0.00	0	N.D.	ug/L	d
3) m	Ethane	0.00	0	N.D.	ug/L	d

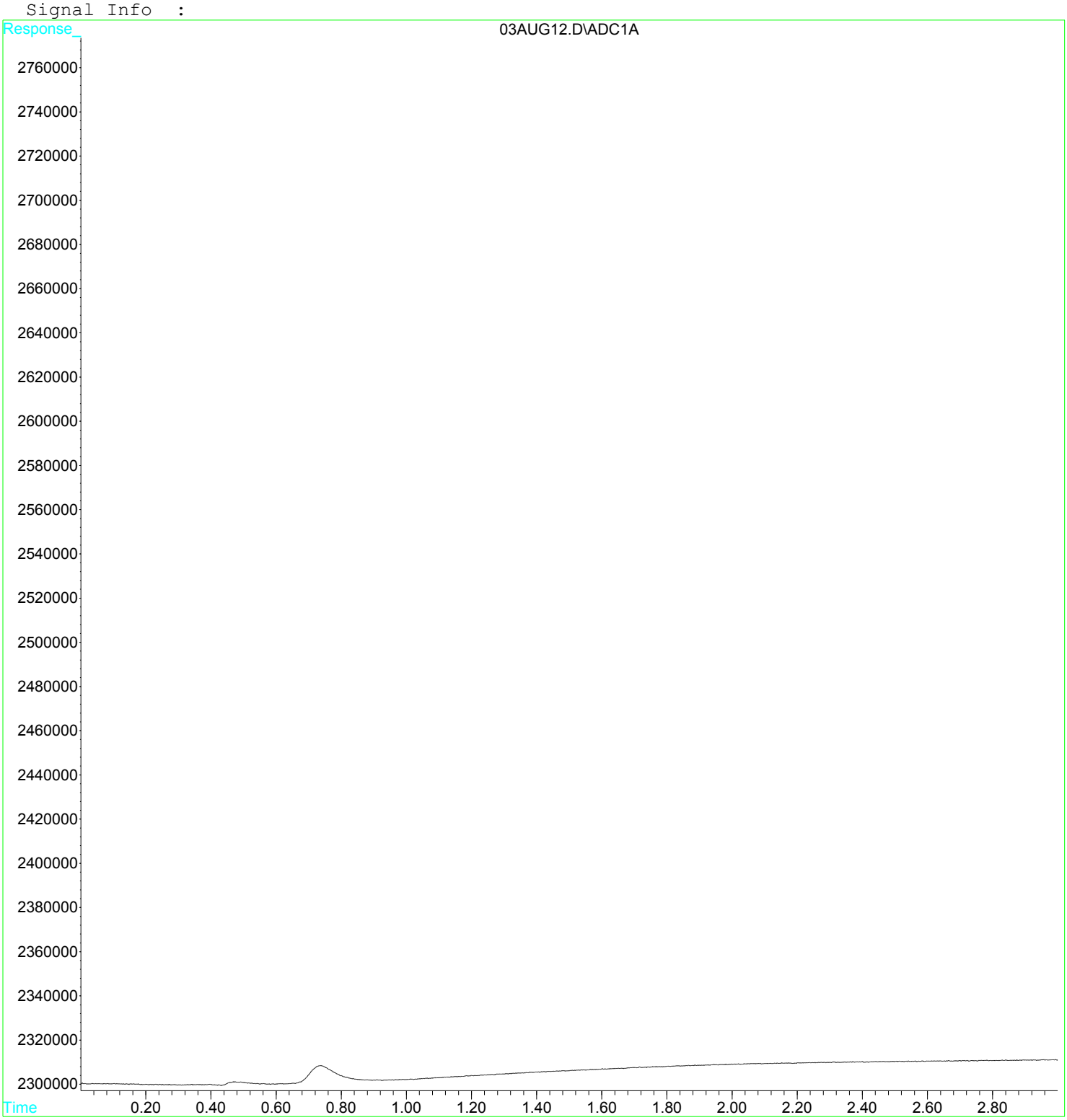
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG12.D Vial: 12
Acq On : 3 Aug 2017 8:54 am Operator: JH2
Sample : 1720121-01 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:01 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG14.D Vial: 14
Acq On : 3 Aug 2017 9:03 am Operator: JH2
Sample : 1720121-03 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:02 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.72	18080188	29.8702	ug/L
2) m	Ethene	0.00	0	N.D.	ug/L d
3) m	Ethane	0.00	0	N.D.	ug/L d

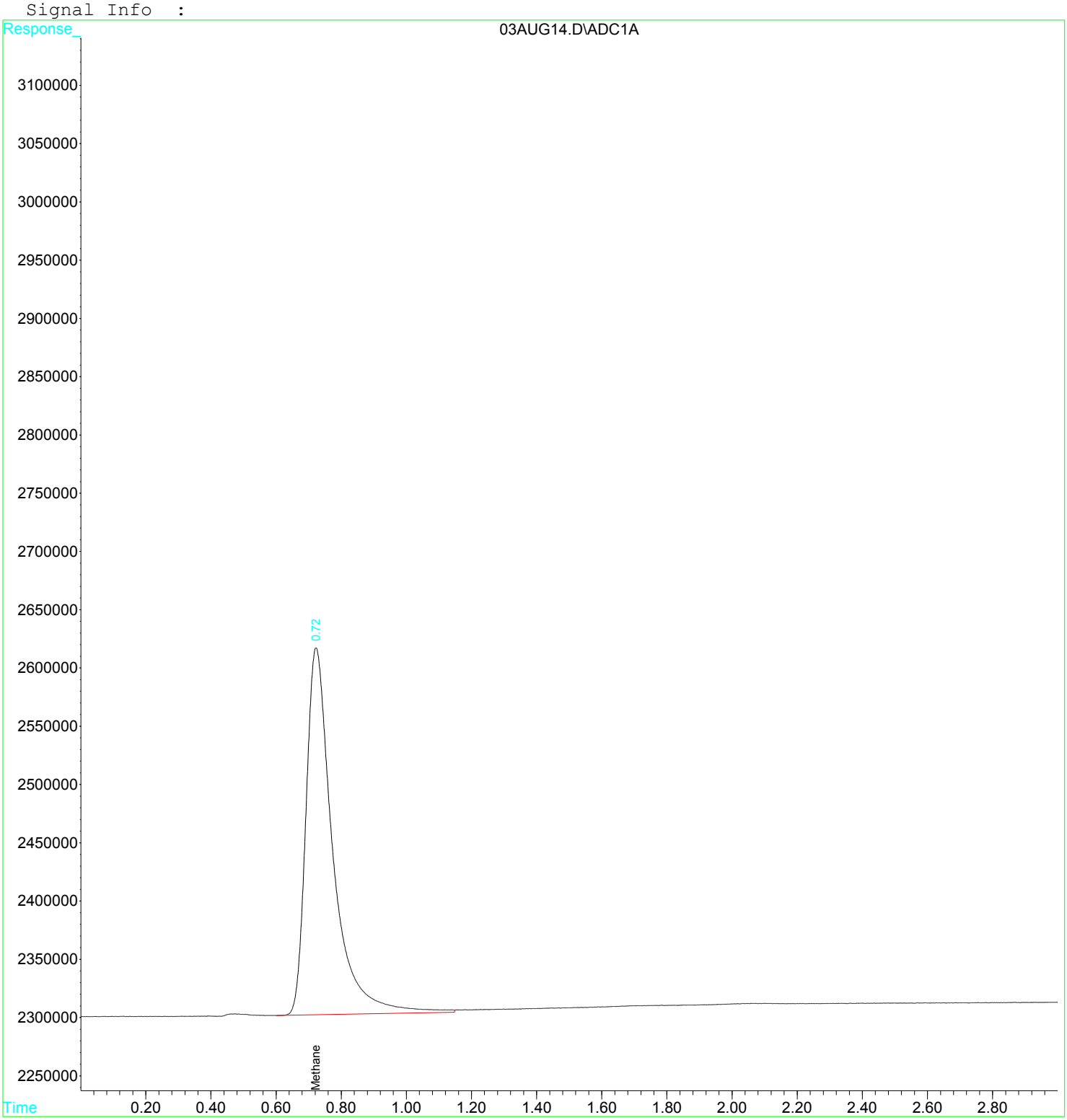
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG14.D Vial: 14
Acq On : 3 Aug 2017 9:03 am Operator: JH2
Sample : 1720121-03 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:02 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

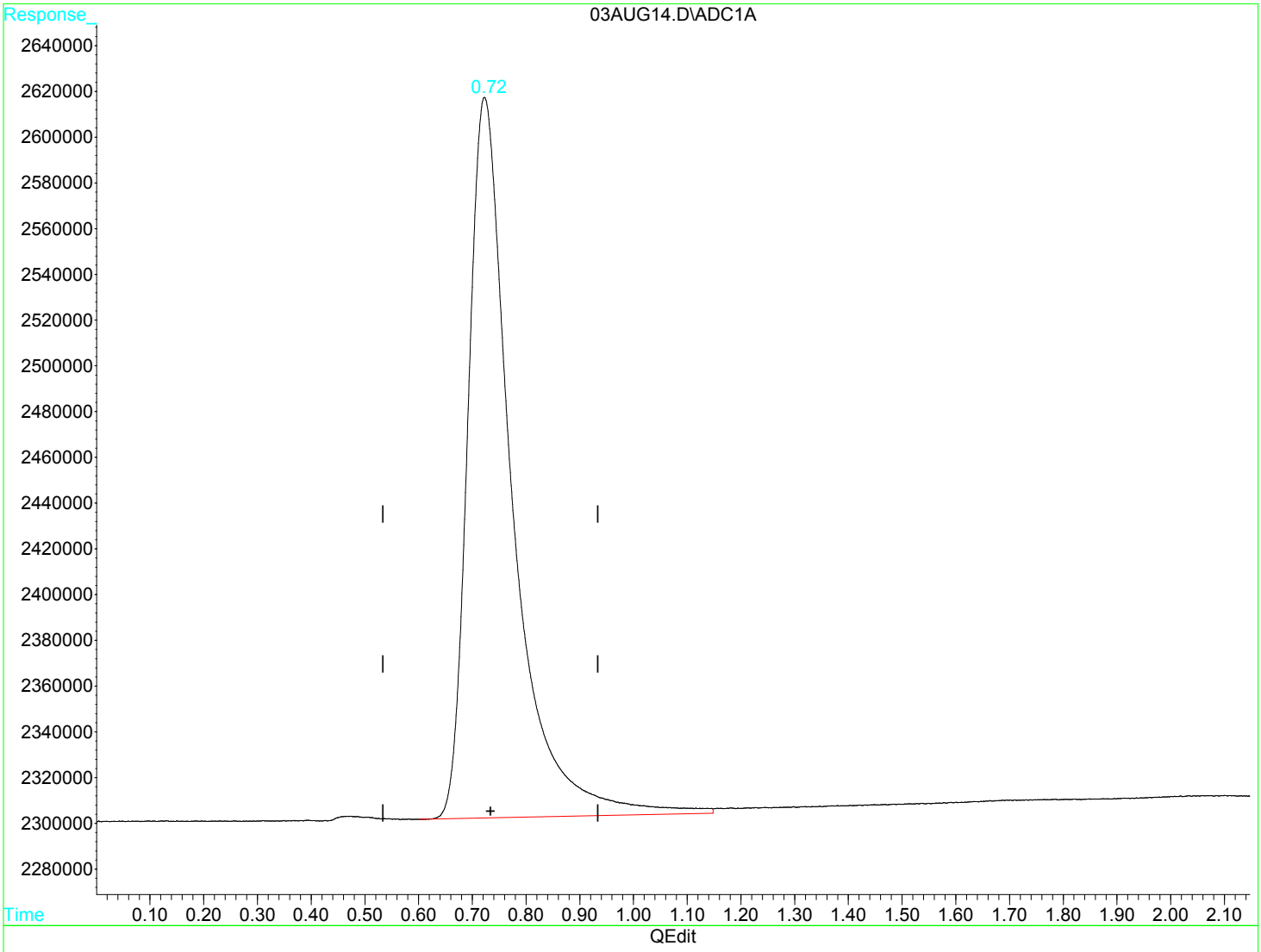
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG14.D Vial: 14
Acq On : 3 Aug 2017 9:03 am Operator: JH2
Sample : 1720121-03 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 9:06 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.72min 29.870ug/L

response 18080188

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG17.D Vial: 17
Acq On : 3 Aug 2017 9:19 am Operator: JH2
Sample : 1720121-06 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:03 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) m Methane	0.73	1047238	1.7301 ug/L m
2) m Ethene	0.00	0	N.D. ug/L d
3) m Ethane	0.00	0	N.D. ug/L d

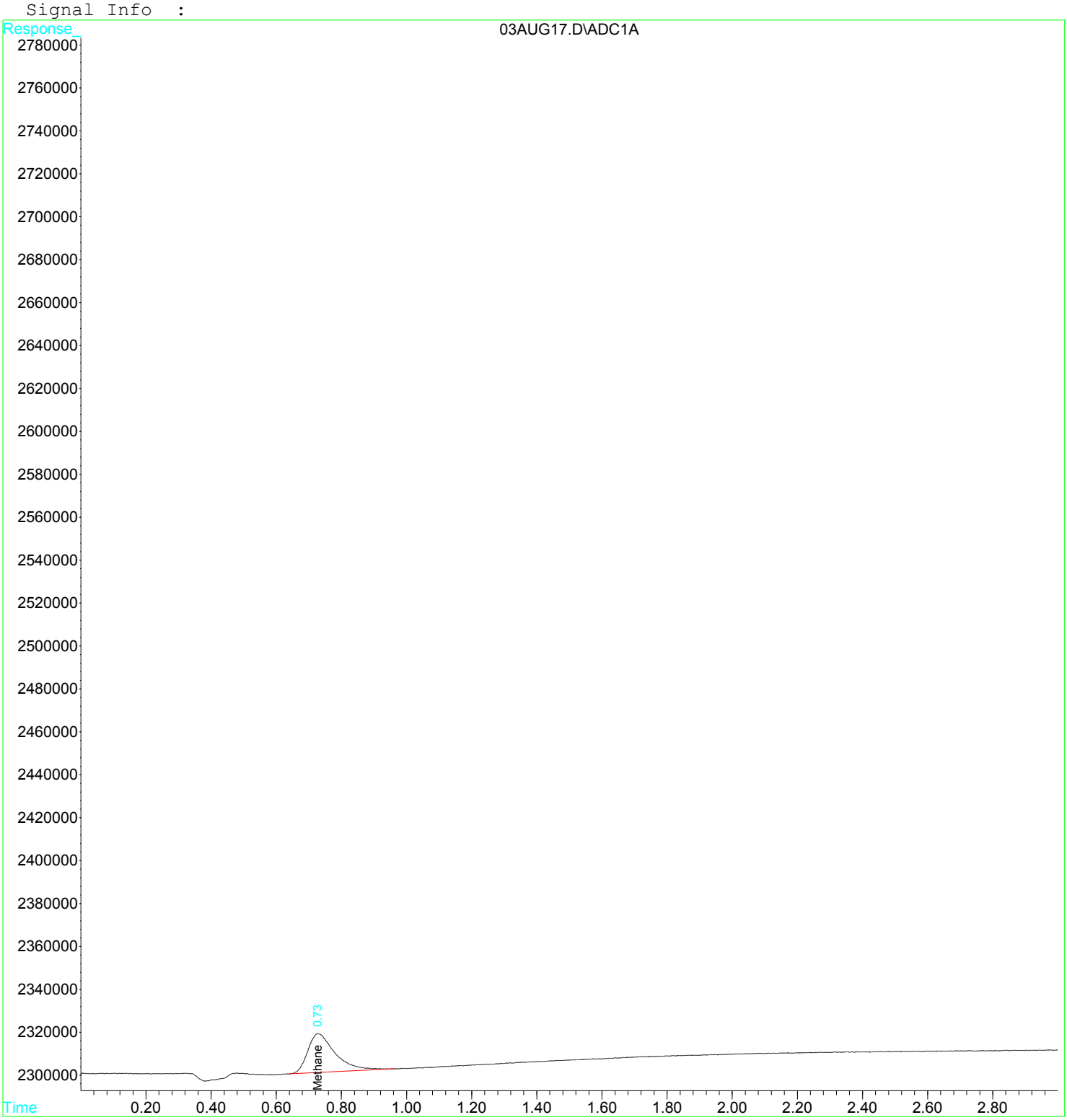
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG17.D Vial: 17
Acq On : 3 Aug 2017 9:19 am Operator: JH2
Sample : 1720121-06 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:03 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

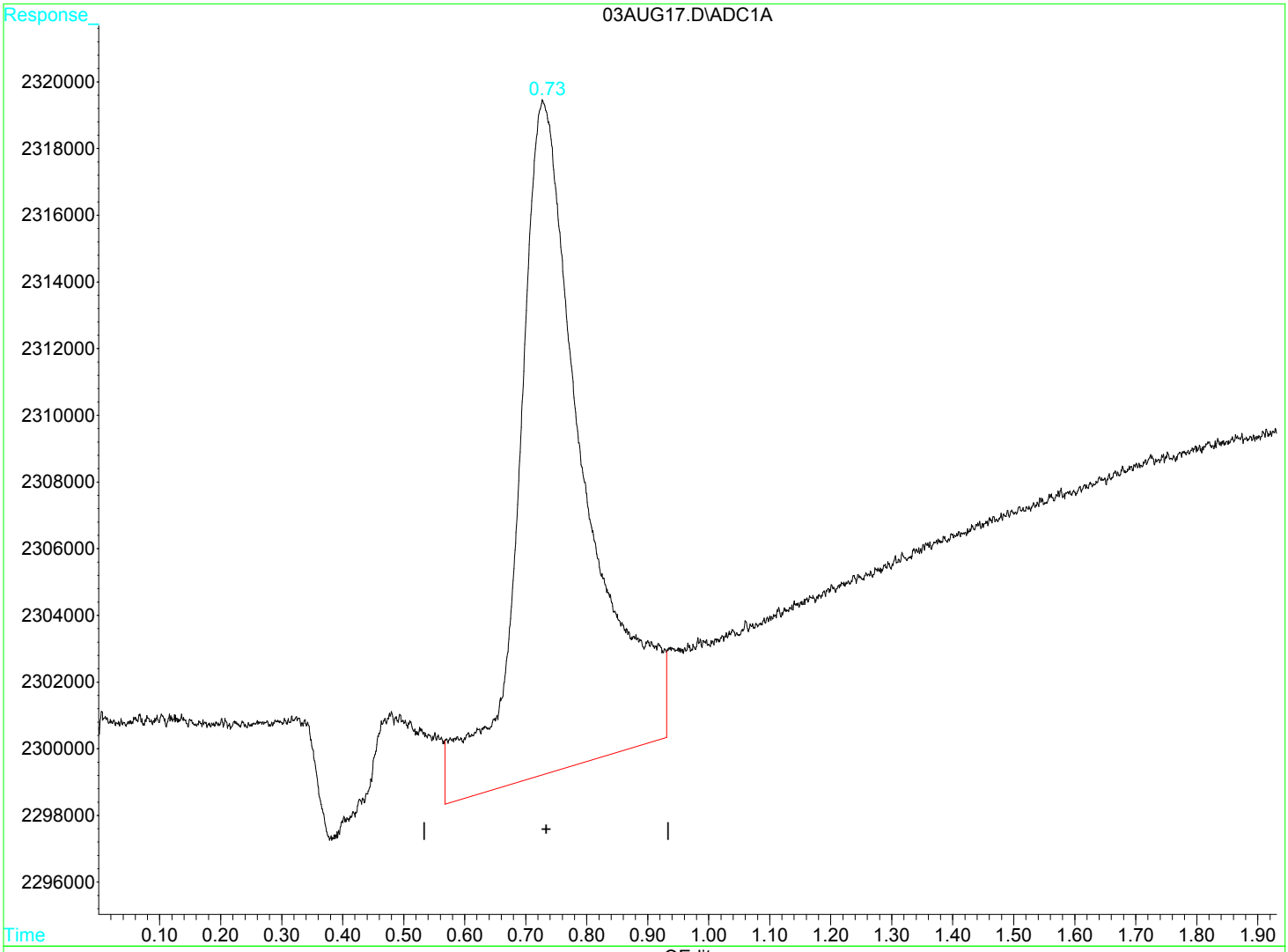
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG17.D Vial: 17
Acq On : 3 Aug 2017 9:19 am Operator: JH2
Sample : 1720121-06 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 9:22 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 2.499ug/L

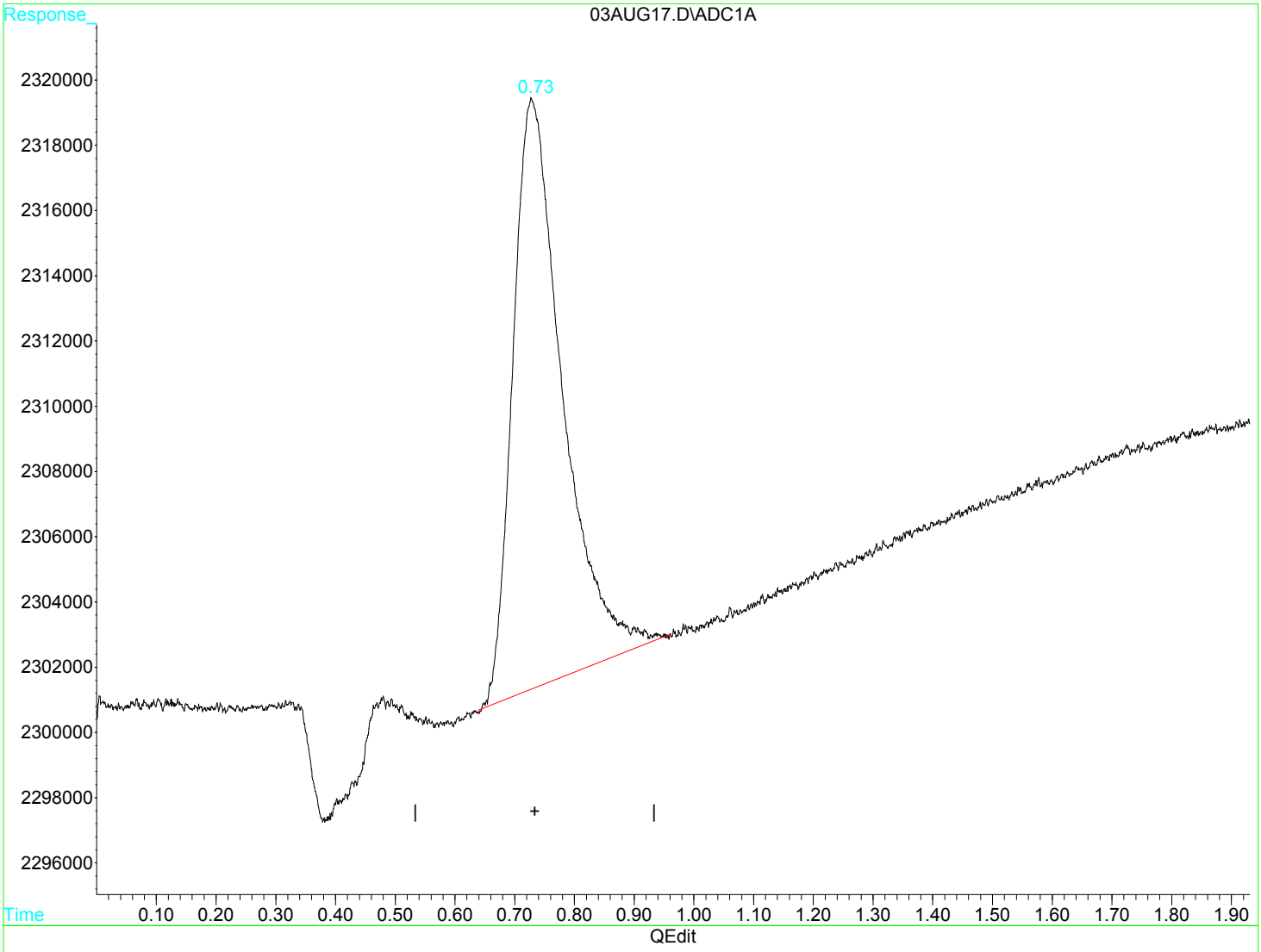
response 1512814

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG17.D Vial: 17
Acq On : 3 Aug 2017 9:19 am Operator: JH2
Sample : 1720121-06 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 9:22 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 1.730ug/L m

response 1047238

(+) = Expected Retention Time

03AUG17.D RSK175.M Thu Aug 03 14:03:50 2017 MSD1

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG18.D Vial: 18
Acq On : 3 Aug 2017 9:23 am Operator: JH2
Sample : 1720121-07 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:05 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.73	6821487	11.2697	ug/L
2) m	Ethene	0.00	0	N.D.	ug/L d
3) m	Ethane	0.00	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int

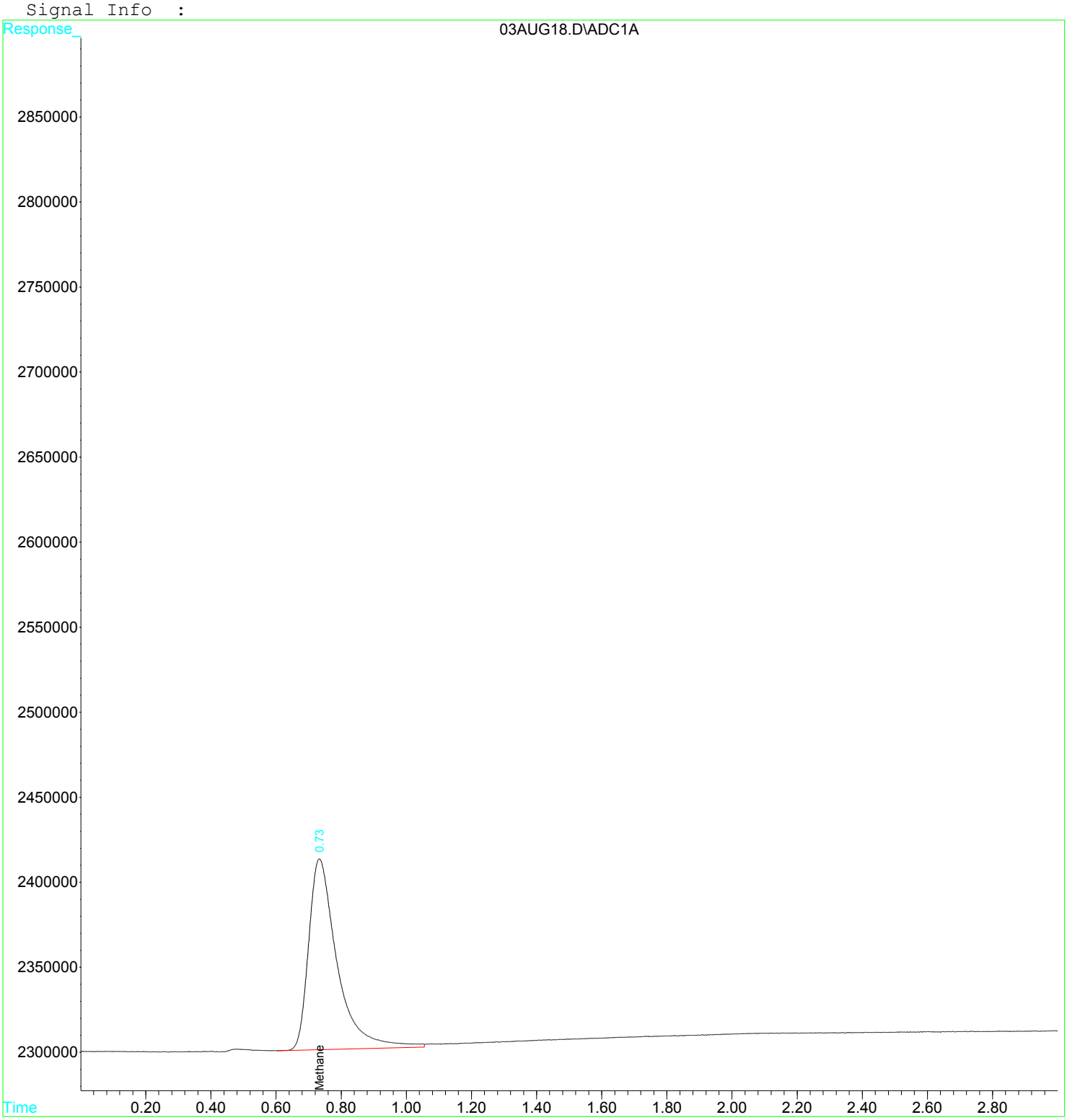
03AUG18.D RSK175.M Thu Aug 03 14:05:45 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG18.D Vial: 18
Acq On : 3 Aug 2017 9:23 am Operator: JH2
Sample : 1720121-07 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:05 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

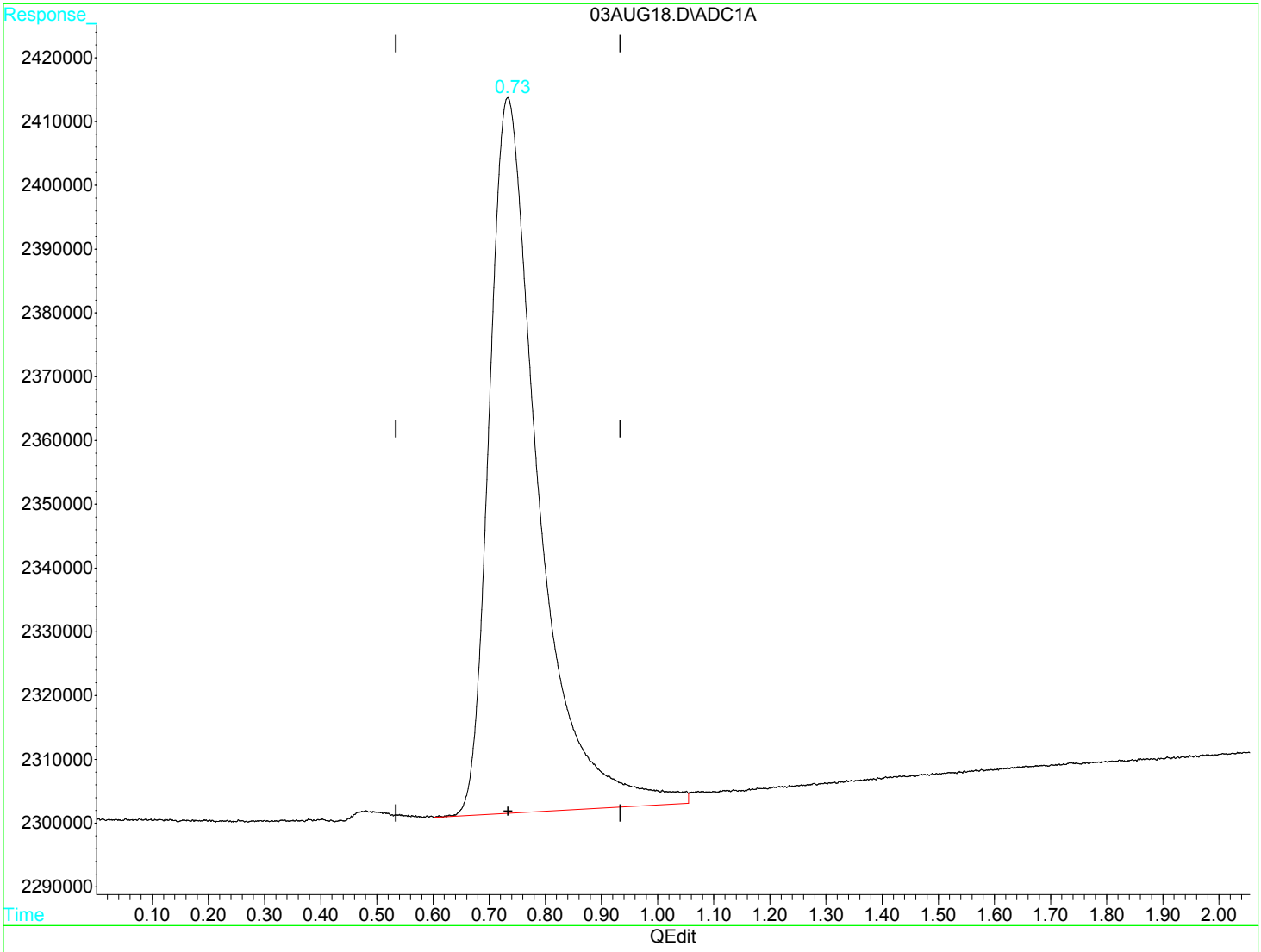
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG18.D Vial: 18
Acq On : 3 Aug 2017 9:23 am Operator: JH2
Sample : 1720121-07 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 9:26 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 11.270ug/L

response 6821487

(+) = Expected Retention Time

03AUG18.D RSK175.M Thu Aug 03 14:04:31 2017 MSD1

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG19.D Vial: 19
Acq On : 3 Aug 2017 9:29 am Operator: JH2
Sample : 1720121-08 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:05 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.74	32133610	53.0877	ug/L
2) m	Ethene	0.00	0	N.D.	ug/L d
3) m	Ethane	0.00	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int

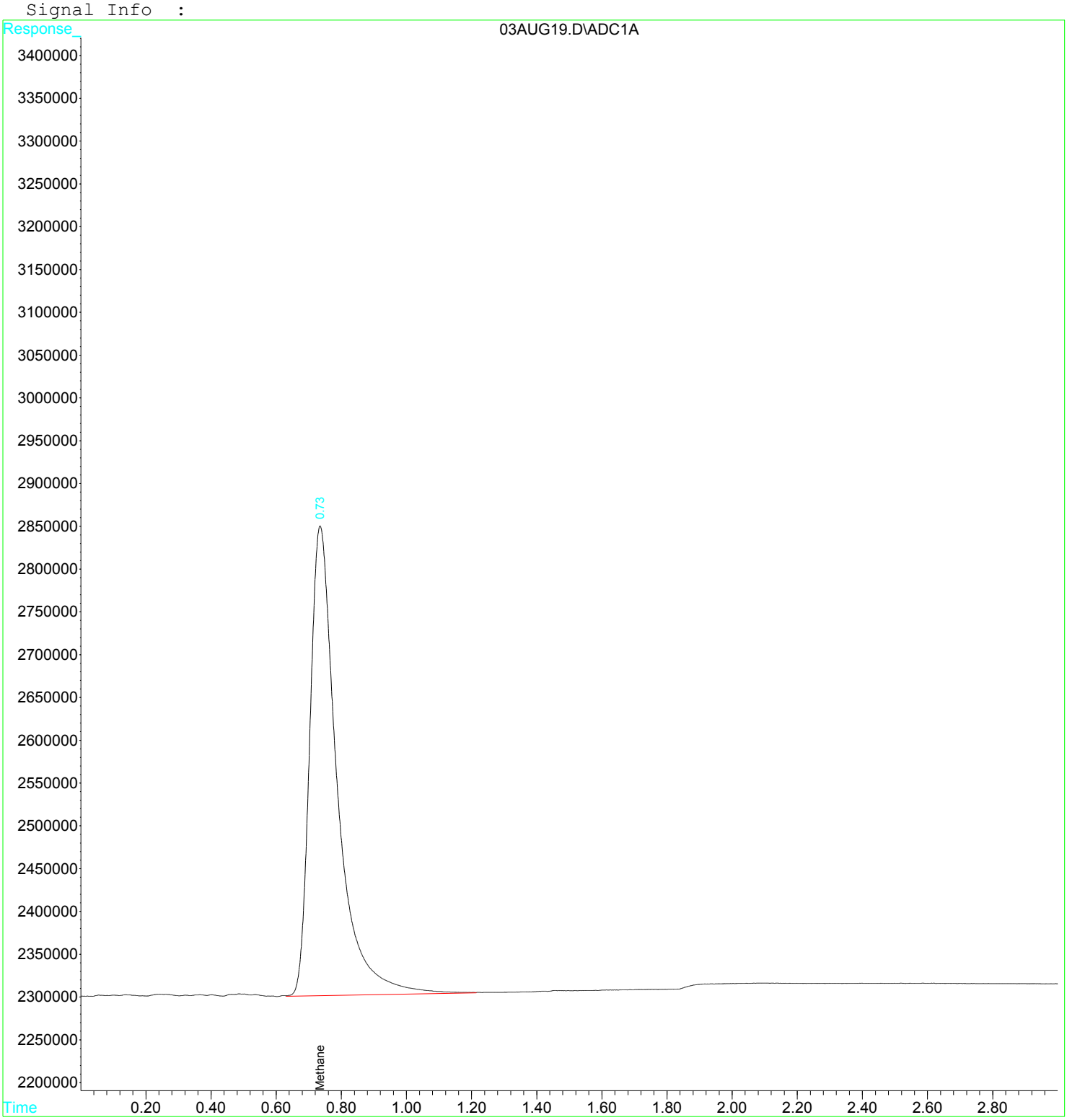
03AUG19.D RSK175.M Thu Aug 03 14:06:05 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG19.D Vial: 19
Acq On : 3 Aug 2017 9:29 am Operator: JH2
Sample : 1720121-08 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:05 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

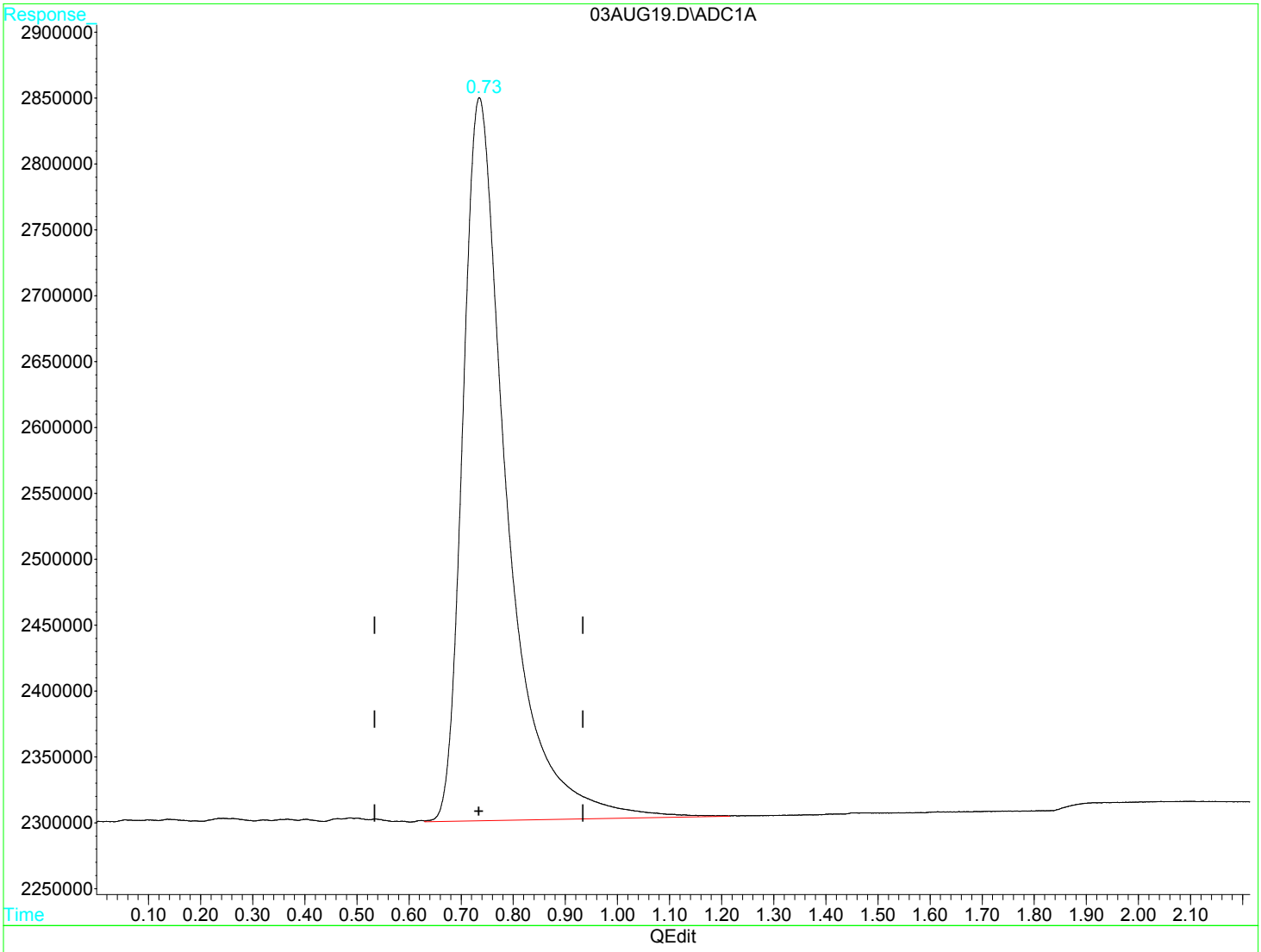
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG19.D Vial: 19
Acq On : 3 Aug 2017 9:29 am Operator: JH2
Sample : 1720121-08 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 9:33 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.74min 53.088ug/L

response 32133610

(+) = Expected Retention Time

03AUG19.D RSK175.M Thu Aug 03 14:05:55 2017 MSD1

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG20.D Vial: 20
Acq On : 3 Aug 2017 9:35 am Operator: JH2
Sample : 1720121-09 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:06 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.74	212424911	350.9458	ug/L
2) m	Ethene	0.00	0	N.D.	ug/L d
3) m	Ethane	0.00	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int

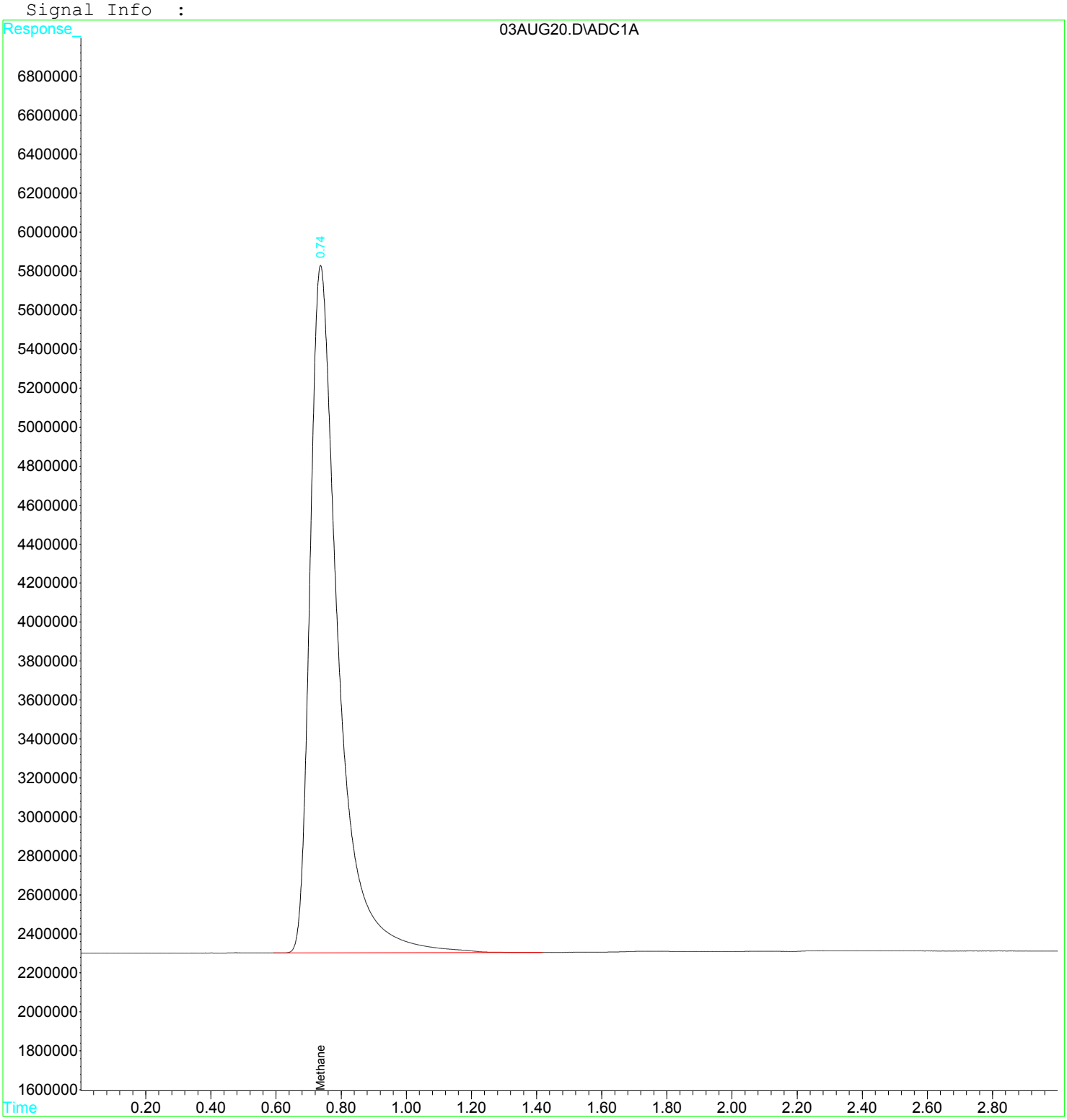
03AUG20.D RSK175.M Thu Aug 03 14:06:34 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG20.D Vial: 20
Acq On : 3 Aug 2017 9:35 am Operator: JH2
Sample : 1720121-09 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:06 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

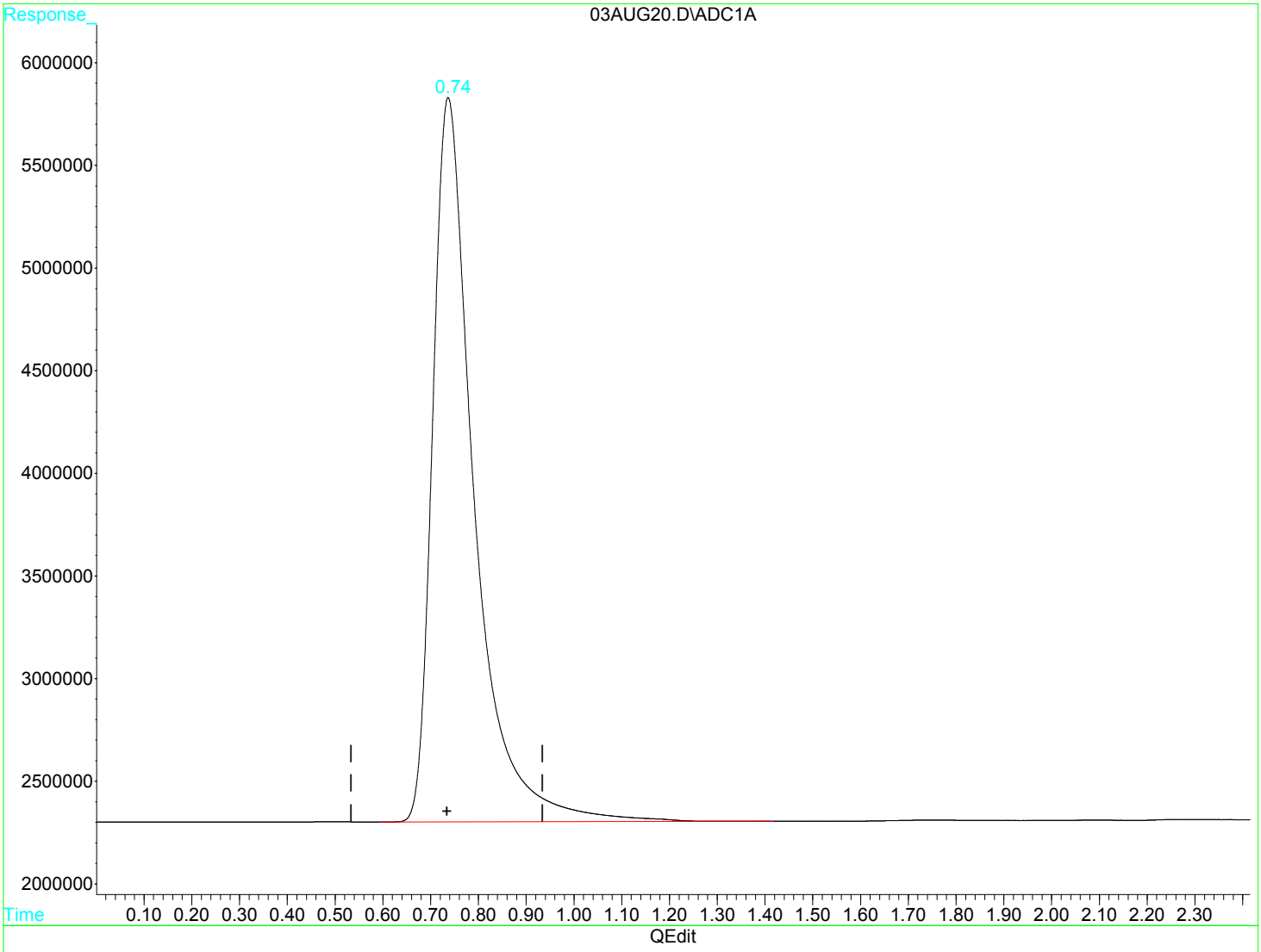
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG20.D Vial: 20
Acq On : 3 Aug 2017 9:35 am Operator: JH2
Sample : 1720121-09 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 9:38 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.74min 350.946ug/L

response 212424911

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG21.D Vial: 21
Acq On : 3 Aug 2017 9:45 am Operator: JH2
Sample : 1720121-10 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:06 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) m	Methane	0.00	0	N.D.	ug/L	d
2) m	Ethene	0.00	0	N.D.	ug/L	d
3) m	Ethane	0.00	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int

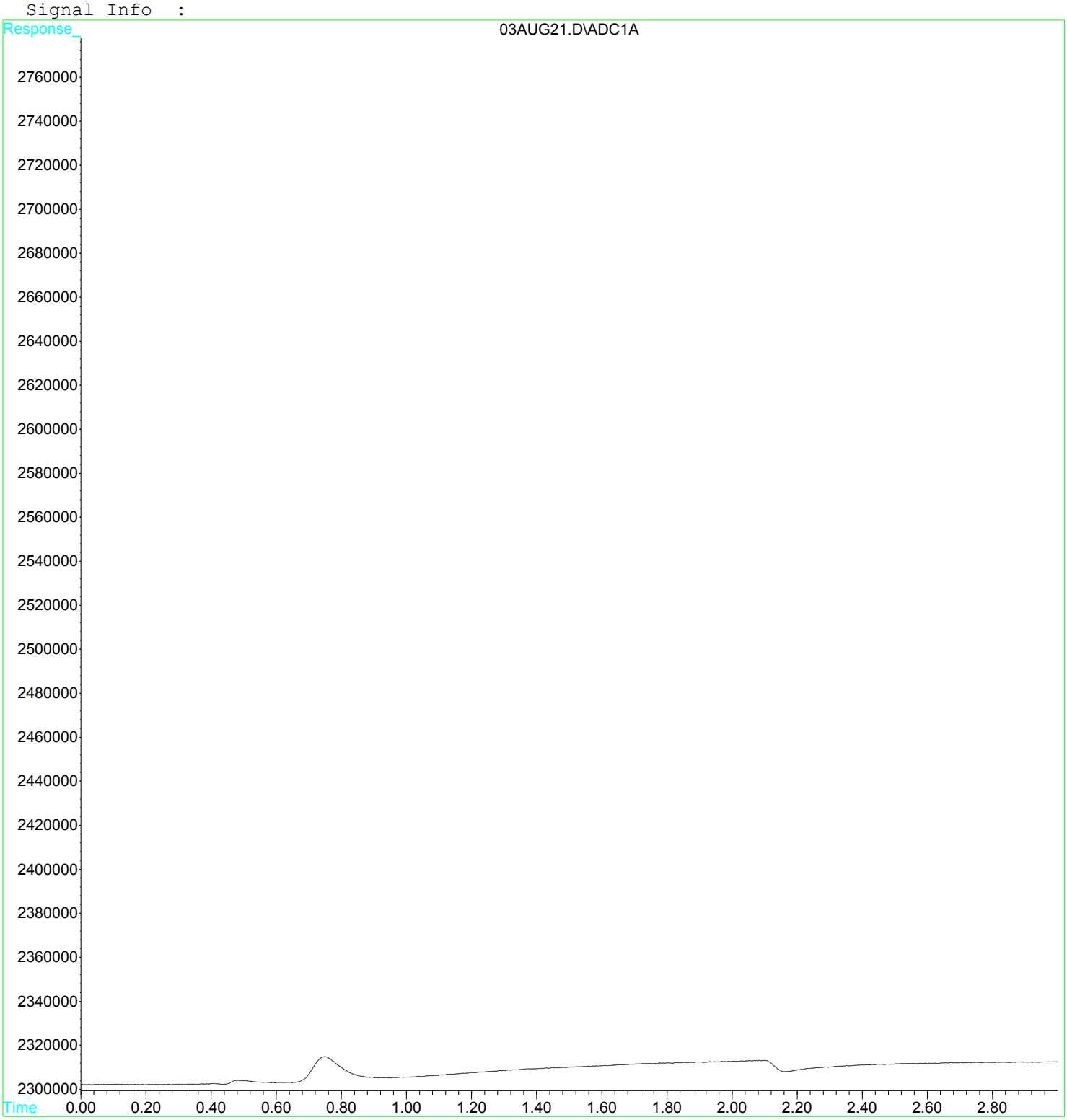
03AUG21.D RSK175.M Thu Aug 03 14:07:05 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG21.D Vial: 21
Acq On : 3 Aug 2017 9:45 am Operator: JH2
Sample : 1720121-10 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:06 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG24.D Vial: 24
Acq On : 3 Aug 2017 10:25 am Operator: JH2
Sample : 1720121-11 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:09 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.74	70315794	116.1683	ug/L
2) m	Ethene	0.00	0	N.D.	ug/L d
3) m	Ethane	0.00	0	N.D.	ug/L d

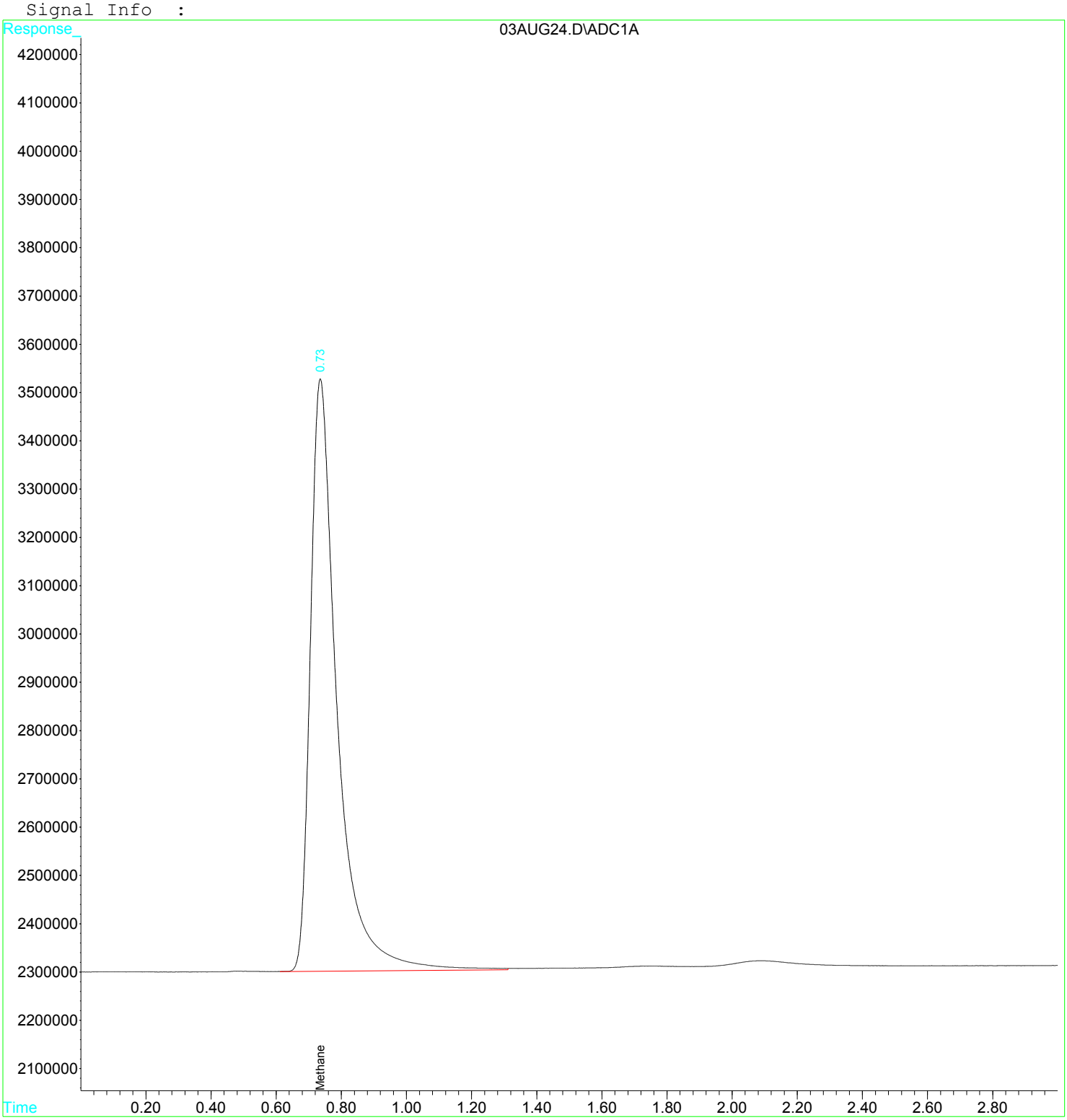
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG24.D Vial: 24
Acq On : 3 Aug 2017 10:25 am Operator: JH2
Sample : 1720121-11 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:09 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

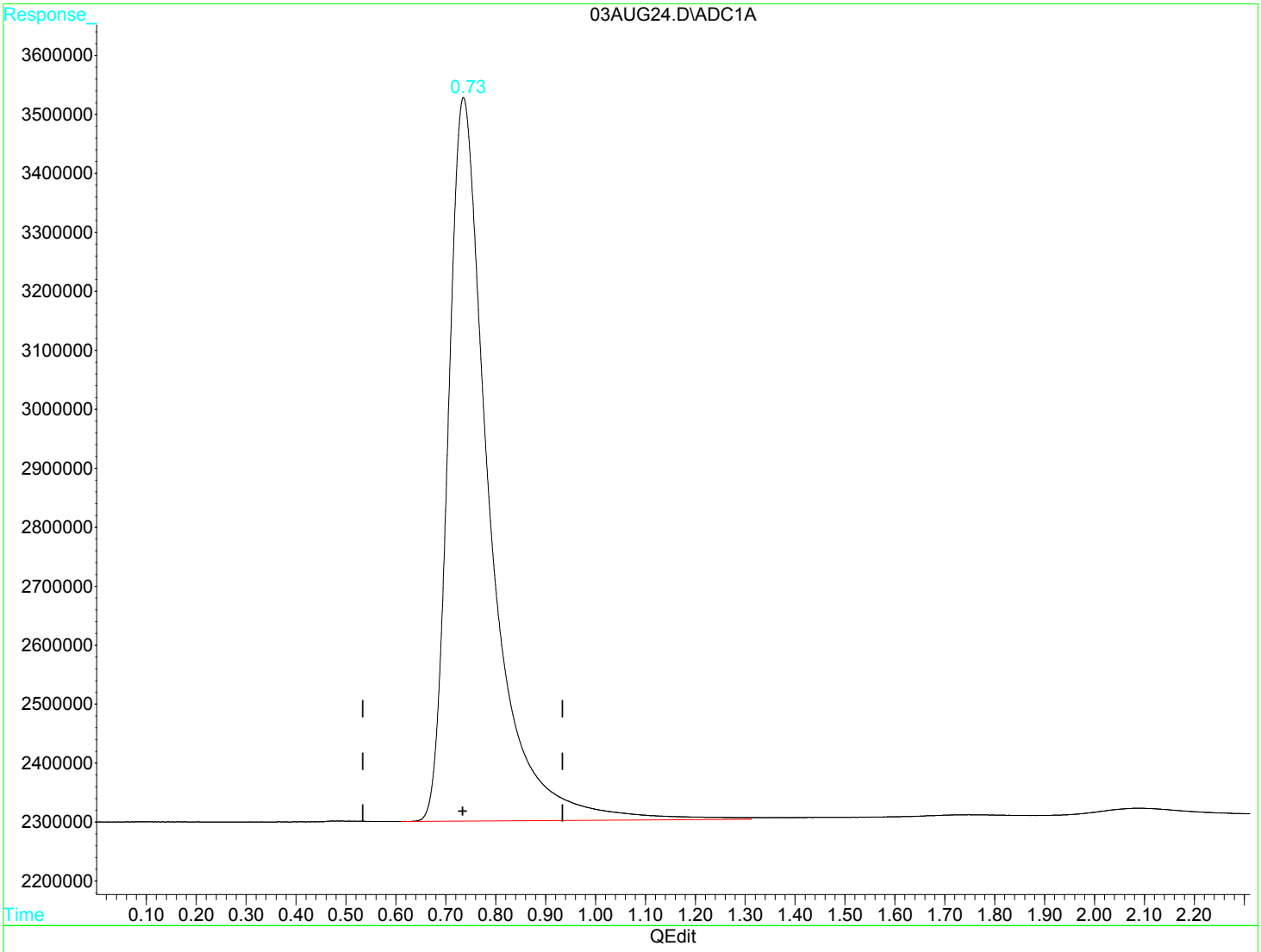
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG24.D Vial: 24
Acq On : 3 Aug 2017 10:25 am Operator: JH2
Sample : 1720121-11 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 10:28 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.74min 116.168ug/L

response 70315794

(+) = Expected Retention Time

03AUG24.D RSK175.M Thu Aug 03 14:09:07 2017 MSD1

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG25.D Vial: 25
Acq On : 3 Aug 2017 10:38 am Operator: JH2
Sample : 1720121-12 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:09 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.73	24474305	40.4338	ug/L
2) m	Ethene	0.00	0	N.D.	ug/L d
3) m	Ethane	0.00	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int

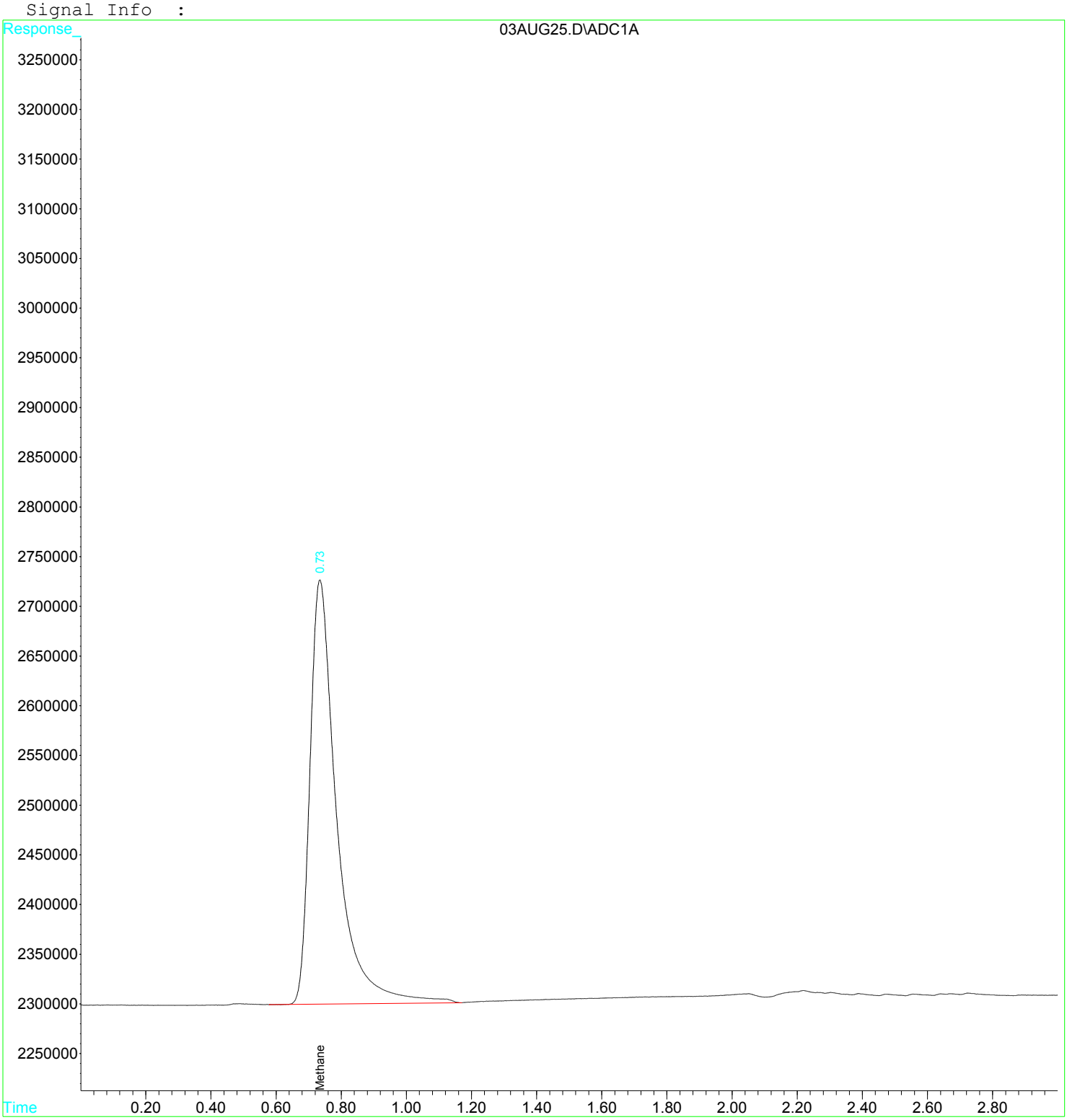
03AUG25.D RSK175.M Thu Aug 03 14:09:39 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG25.D Vial: 25
Acq On : 3 Aug 2017 10:38 am Operator: JH2
Sample : 1720121-12 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:09 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

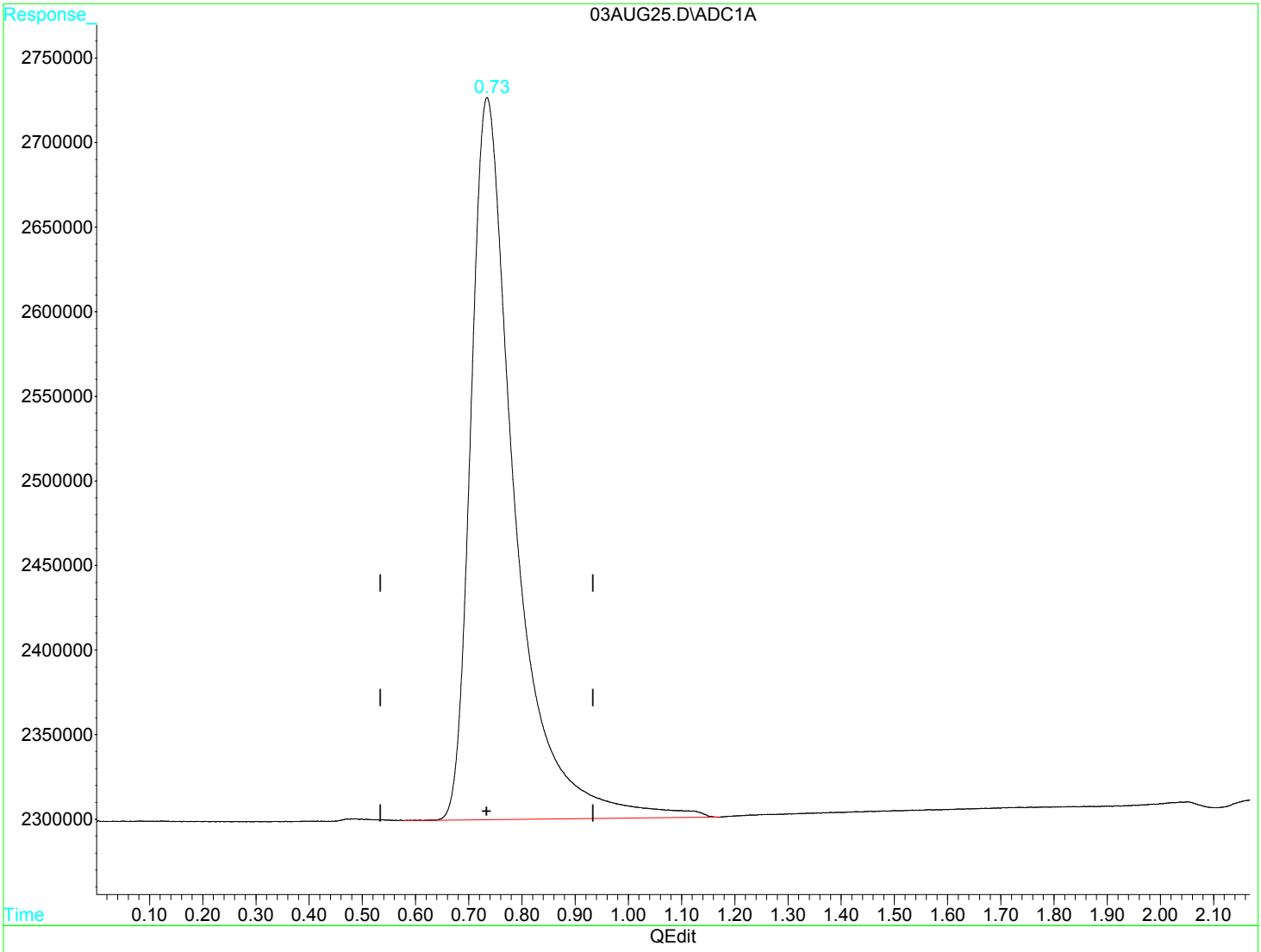
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG25.D Vial: 25
Acq On : 3 Aug 2017 10:38 am Operator: JH2
Sample : 1720121-12 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 10:41 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 40.434ug/L

response 24474305

(+) = Expected Retention Time

03AUG25.D RSK175.M Thu Aug 03 14:09:29 2017 MSD1

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG26.D Vial: 26
Acq On : 3 Aug 2017 11:01 am Operator: JH2
Sample : 1720121-13 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:10 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.73	25804683	42.6318	ug/L
2) m	Ethene	0.00	0	N.D.	ug/L d
3) m	Ethane	0.00	0	N.D.	ug/L d

(f)=RT Delta > 1/2 Window (m)=manual int

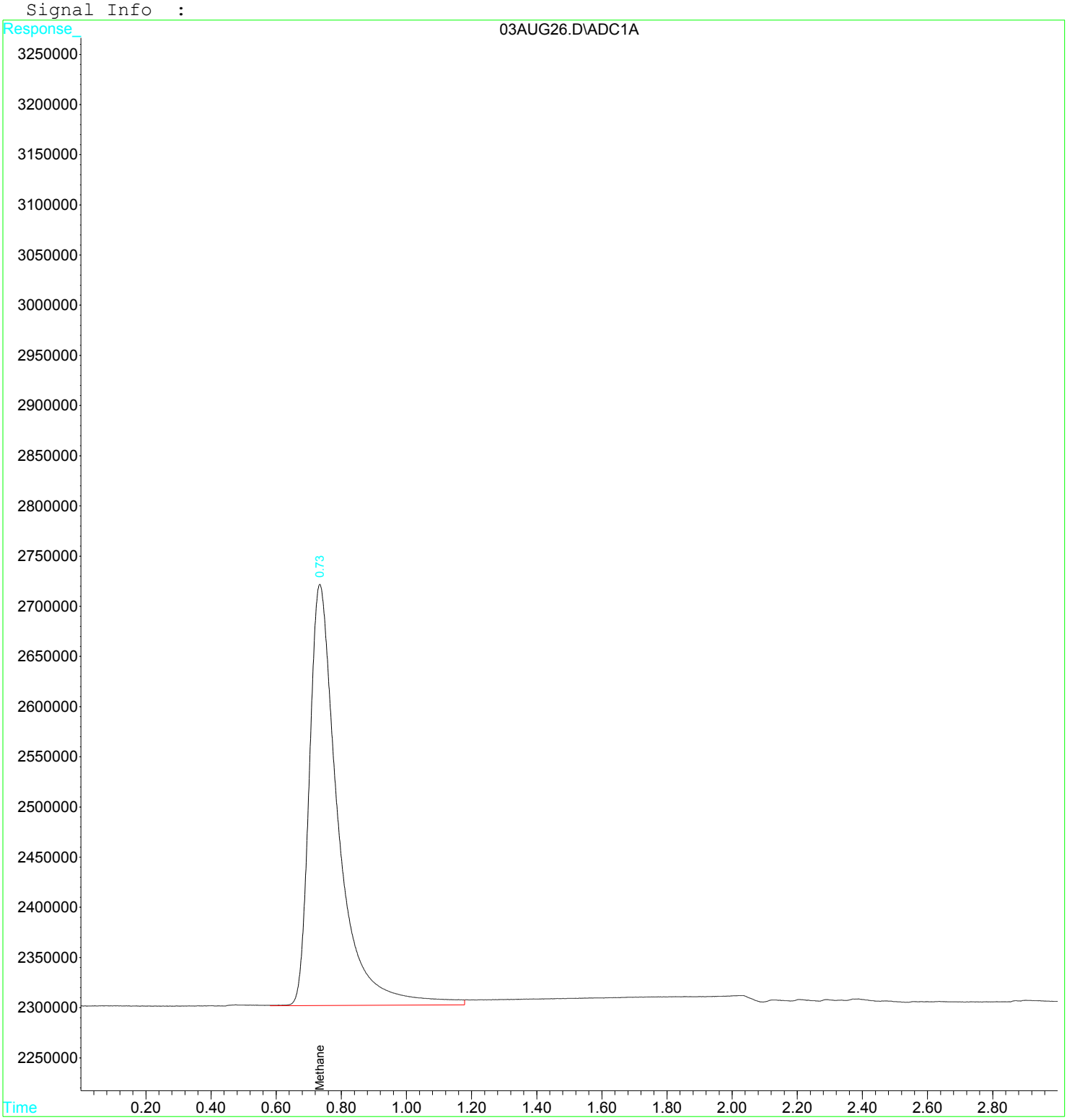
03AUG26.D RSK175.M Thu Aug 03 14:10:14 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG26.D Vial: 26
Acq On : 3 Aug 2017 11:01 am Operator: JH2
Sample : 1720121-13 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:10 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

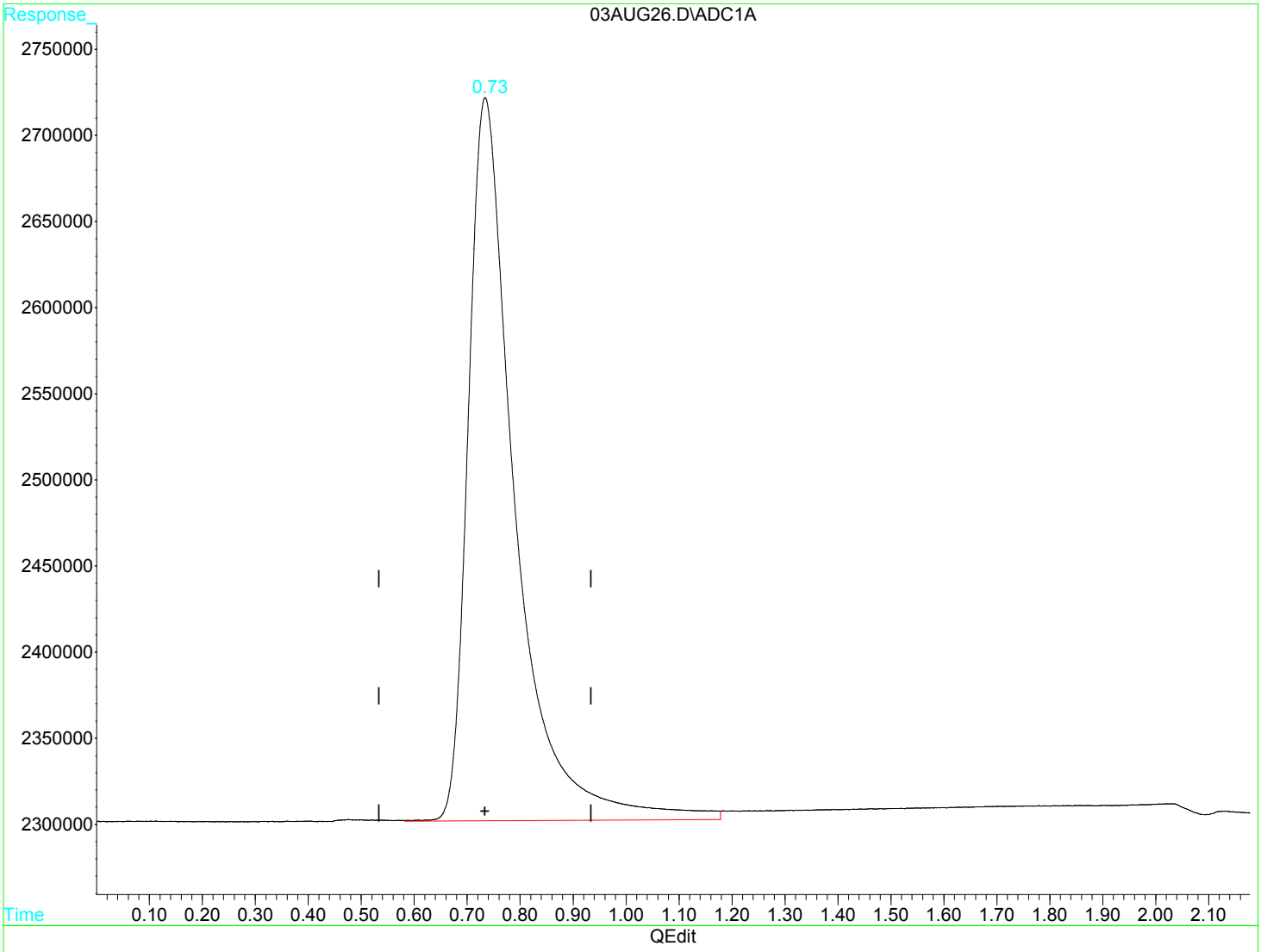
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG26.D Vial: 26
Acq On : 3 Aug 2017 11:01 am Operator: JH2
Sample : 1720121-13 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 11:04 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 42.632ug/L

response 25804683

(+) = Expected Retention Time

03AUG26.D RSK175.M Thu Aug 03 14:09:59 2017 MSD1

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG27.D Vial: 27
Acq On : 3 Aug 2017 11:05 am Operator: JH2
Sample : 1720121-14 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:10 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) m	Methane	0.00	0	N.D.	ug/L	d
2) m	Ethene	0.00	0	N.D.	ug/L	d
3) m	Ethane	0.00	0	N.D.	ug/L	d

(f)=RT Delta > 1/2 Window (m)=manual int

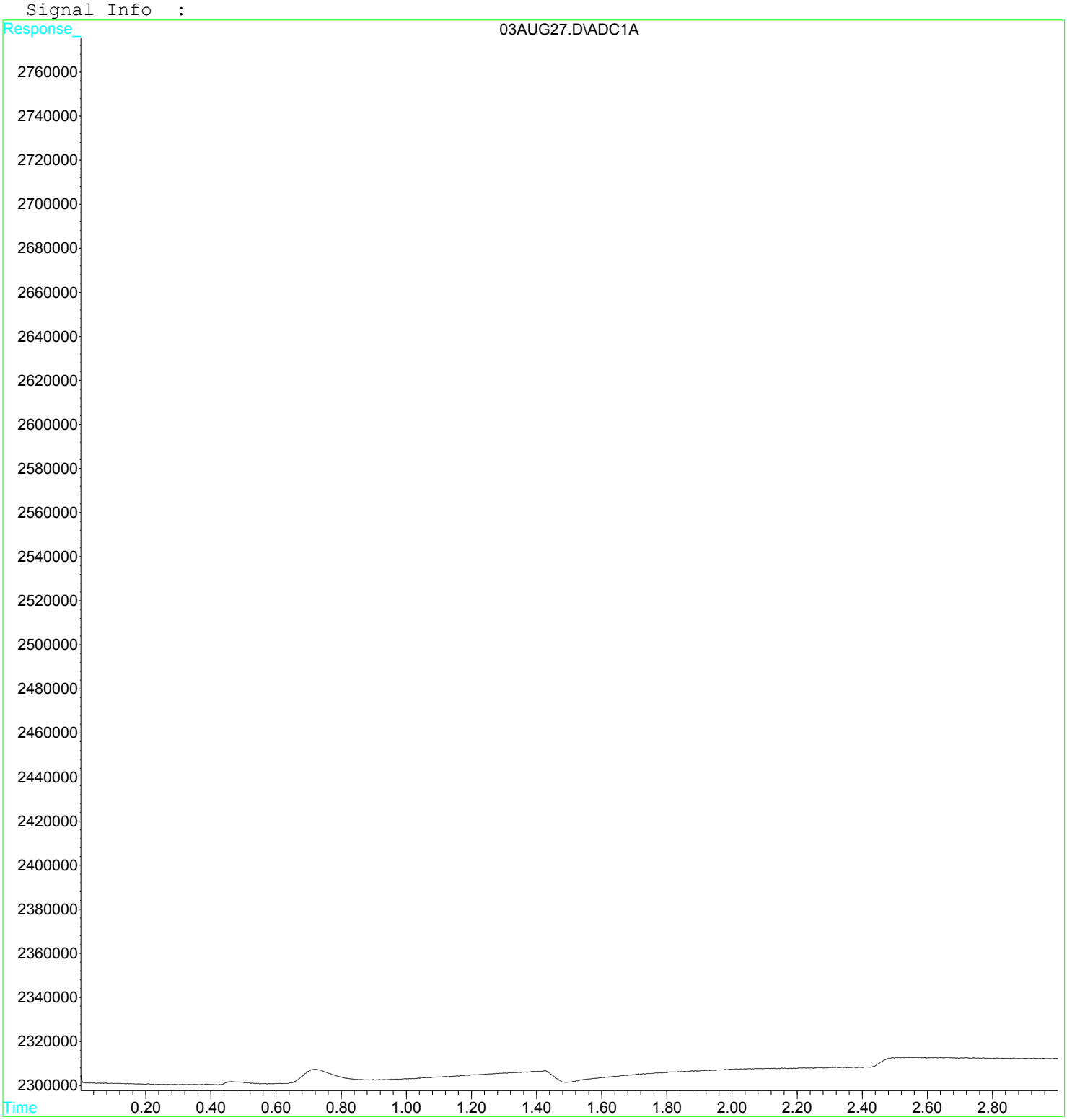
03AUG27.D RSK175.M Thu Aug 03 14:10:31 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG27.D Vial: 27
Acq On : 3 Aug 2017 11:05 am Operator: JH2
Sample : 1720121-14 Inst : GC-V1
Misc : 1 G RSK-175 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:10 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Raw Data - Calibration Standards

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN05.D Vial: 5
Acq On : 27 Jan 2017 7:56 am Operator: JH2
Sample : 1701454-CAL1 Inst : GC-V1
Misc : CAL 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:59 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
Target Compounds				
1) m	Methane	0.73	691757	1.1814 ug/L
2) m	Ethene	1.72	1251437	3.2424 ug/L
3) m	Ethane	2.07	1275089	2.2179 ug/L

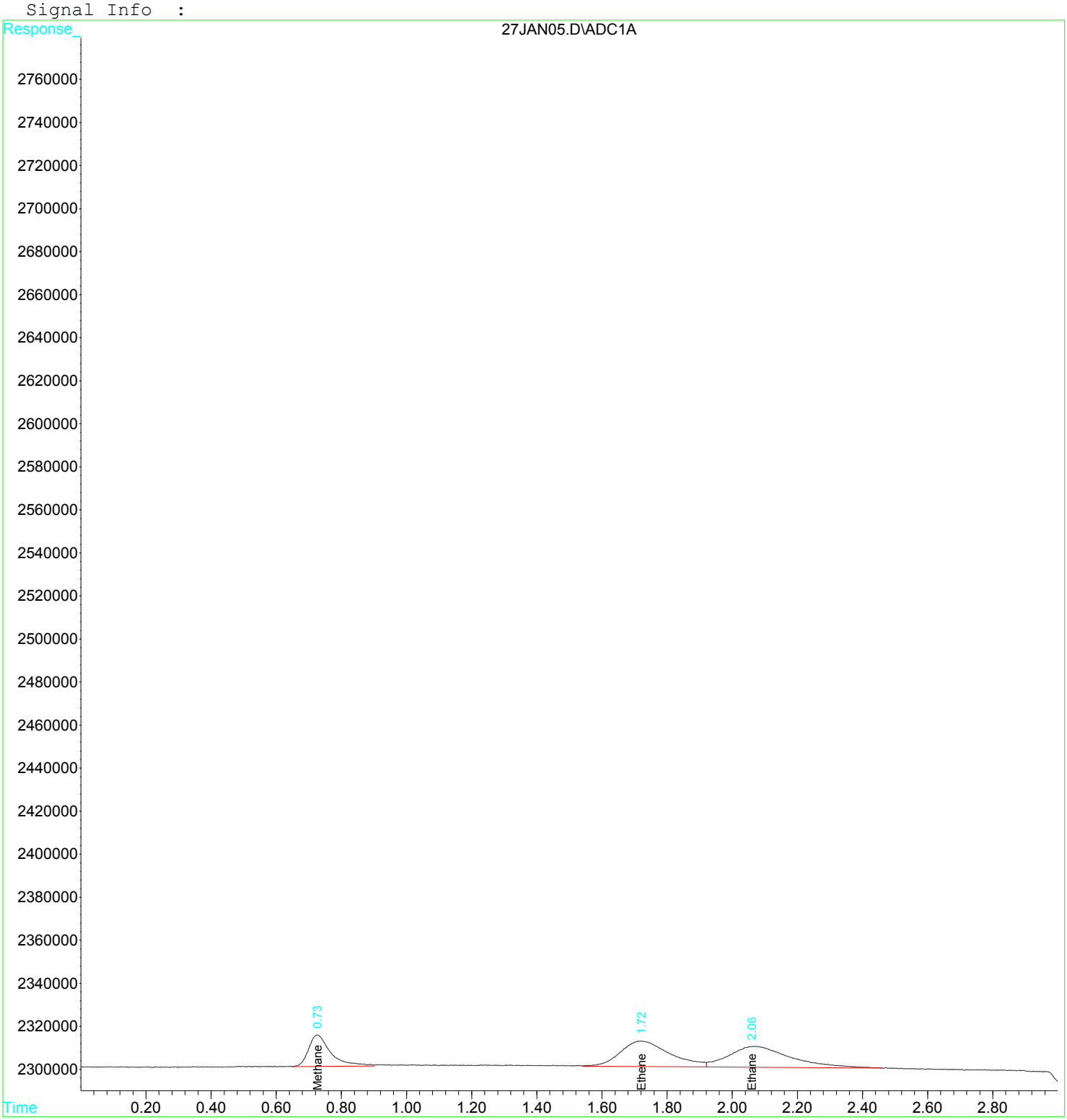
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN05.D Vial: 5
Acq On : 27 Jan 2017 7:56 am Operator: JH2
Sample : 1701454-CAL1 Inst : GC-V1
Misc : CAL 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:59 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

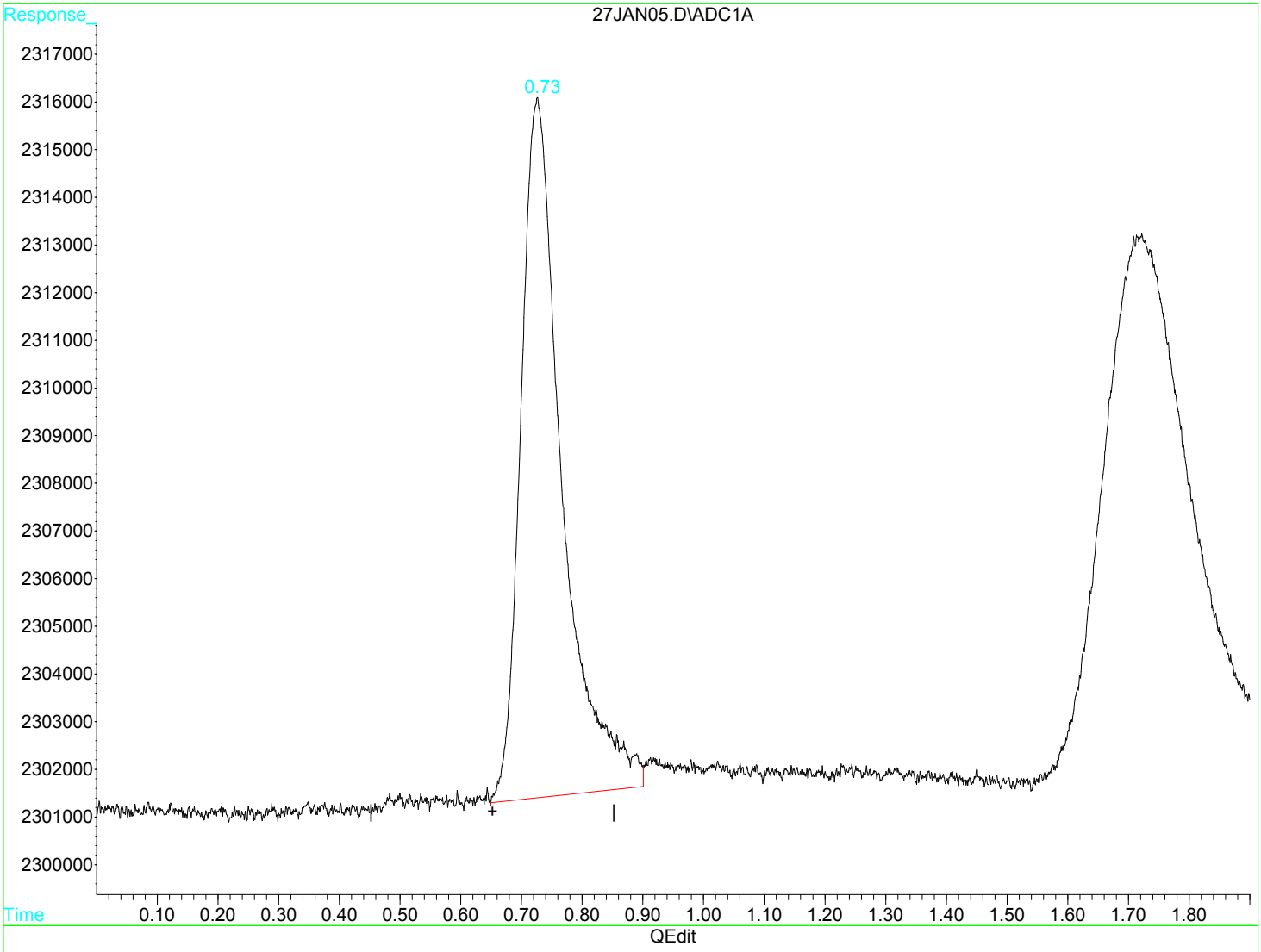
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN05.D Vial: 5
Acq On : 27 Jan 2017 7:56 am Operator: JH2
Sample : 1701454-CAL1 Inst : GC-V1
Misc : CAL 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:59 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 1.181ug/L

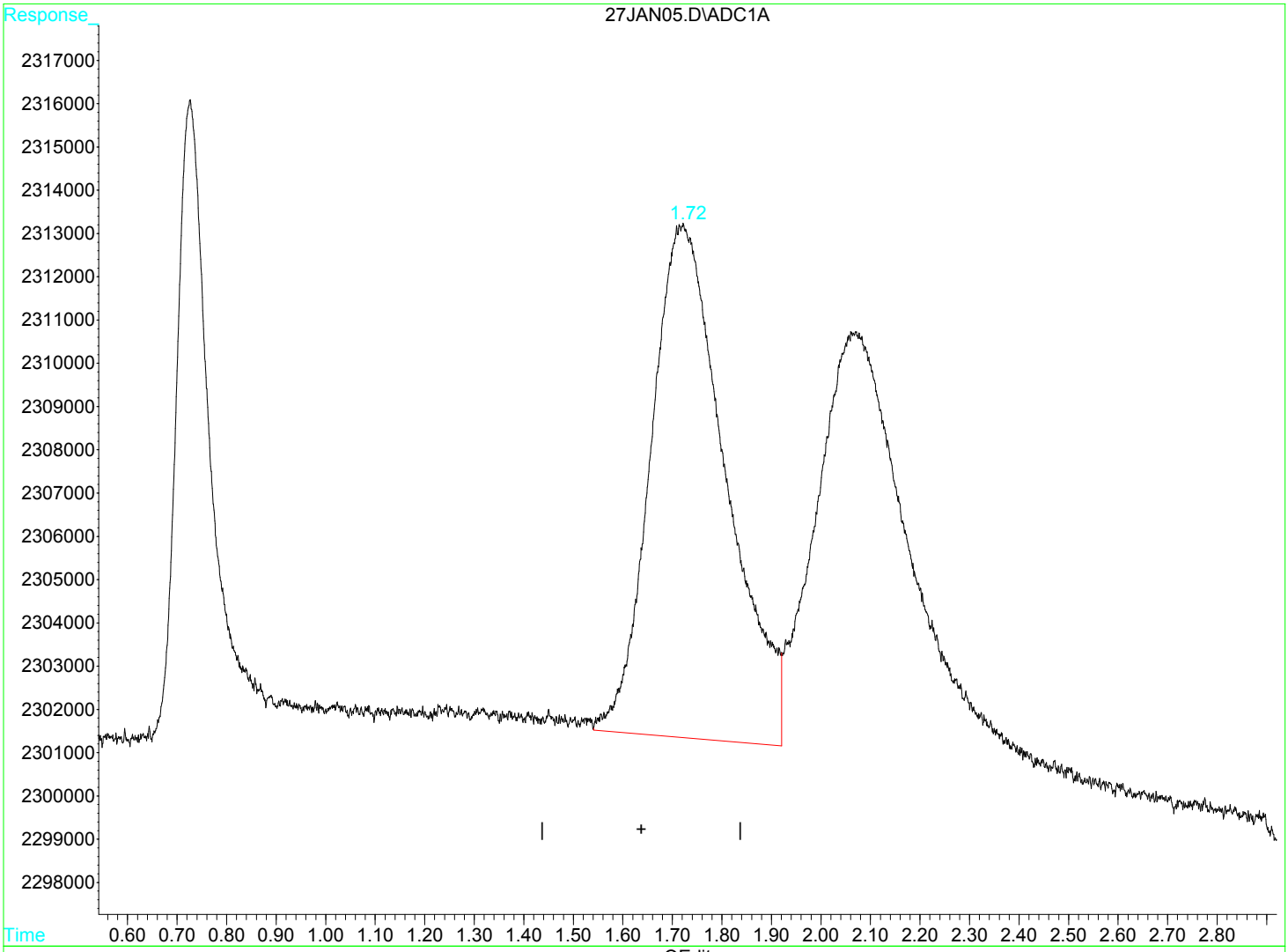
response 691757

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN05.D Vial: 5
Acq On : 27 Jan 2017 7:56 am Operator: JH2
Sample : 1701454-CAL1 Inst : GC-V1
Misc : CAL 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:59 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.72min 3.242ug/L

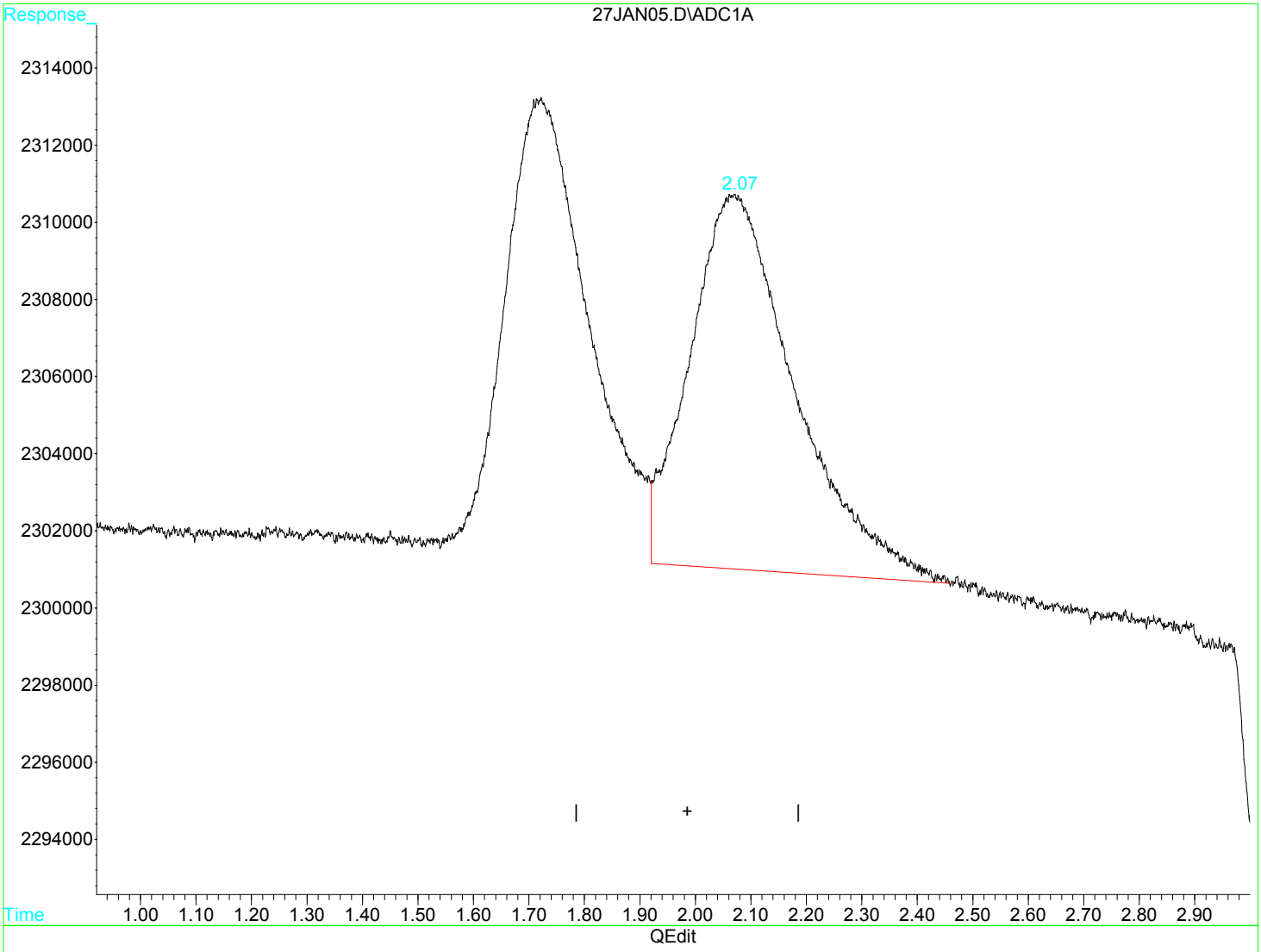
response 1251437

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN05.D Vial: 5
Acq On : 27 Jan 2017 7:56 am Operator: JH2
Sample : 1701454-CAL1 Inst : GC-V1
Misc : CAL 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:59 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.07min 2.218ug/L

response 1275089

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN04.D Vial: 4
Acq On : 27 Jan 2017 7:52 am Operator: JH2
Sample : 1701454-CAL2 Inst : GC-V1
Misc : CAL 2 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:55 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) m	Methane	0.73	7510447	12.8269	ug/L
2) m	Ethene	1.74f	12518403	32.4341	ug/L
3) m	Ethane	2.09f	14383928	25.0192	ug/L

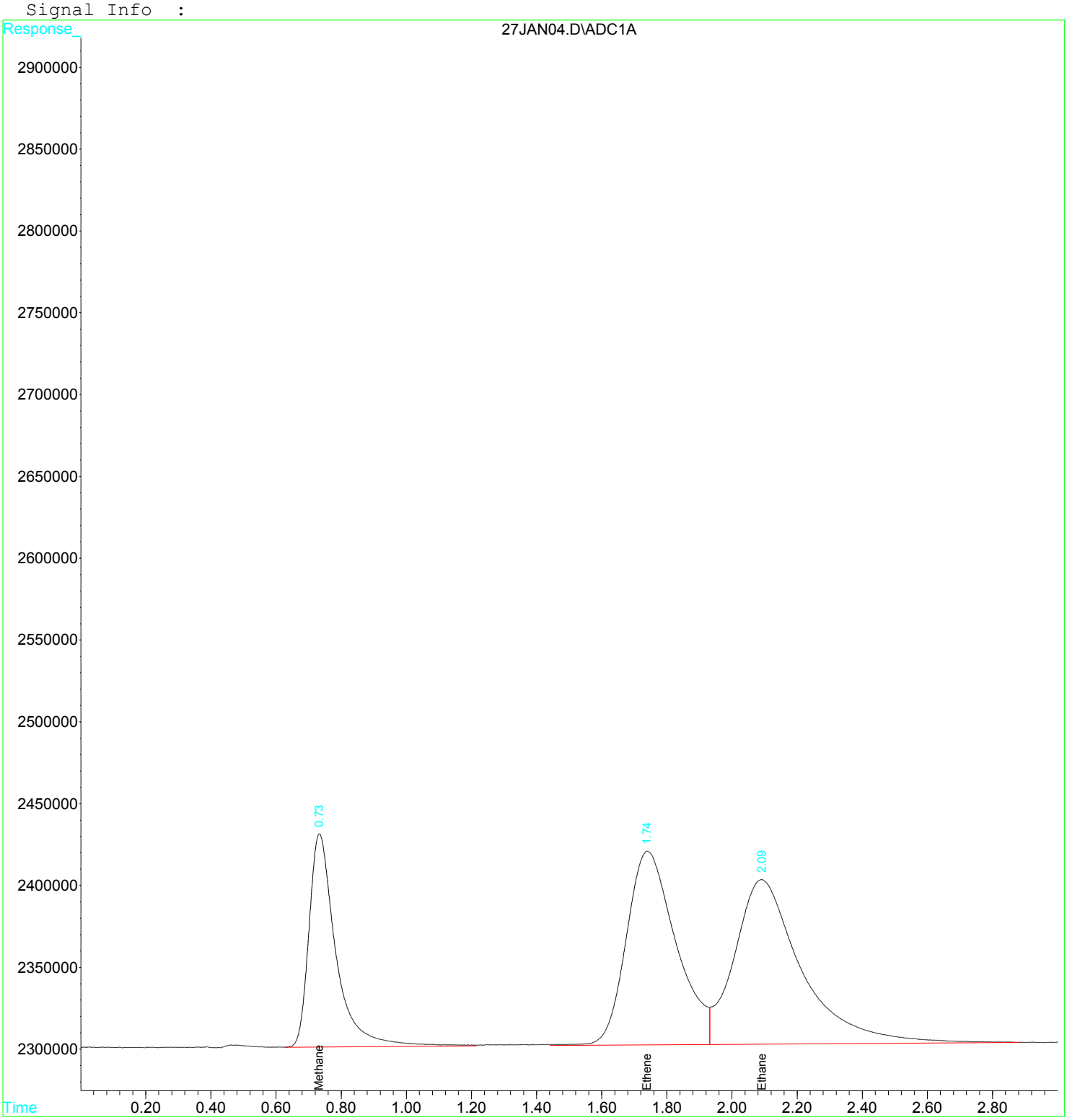
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN04.D Vial: 4
Acq On : 27 Jan 2017 7:52 am Operator: JH2
Sample : 1701454-CAL2 Inst : GC-V1
Misc : CAL 2 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:55 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

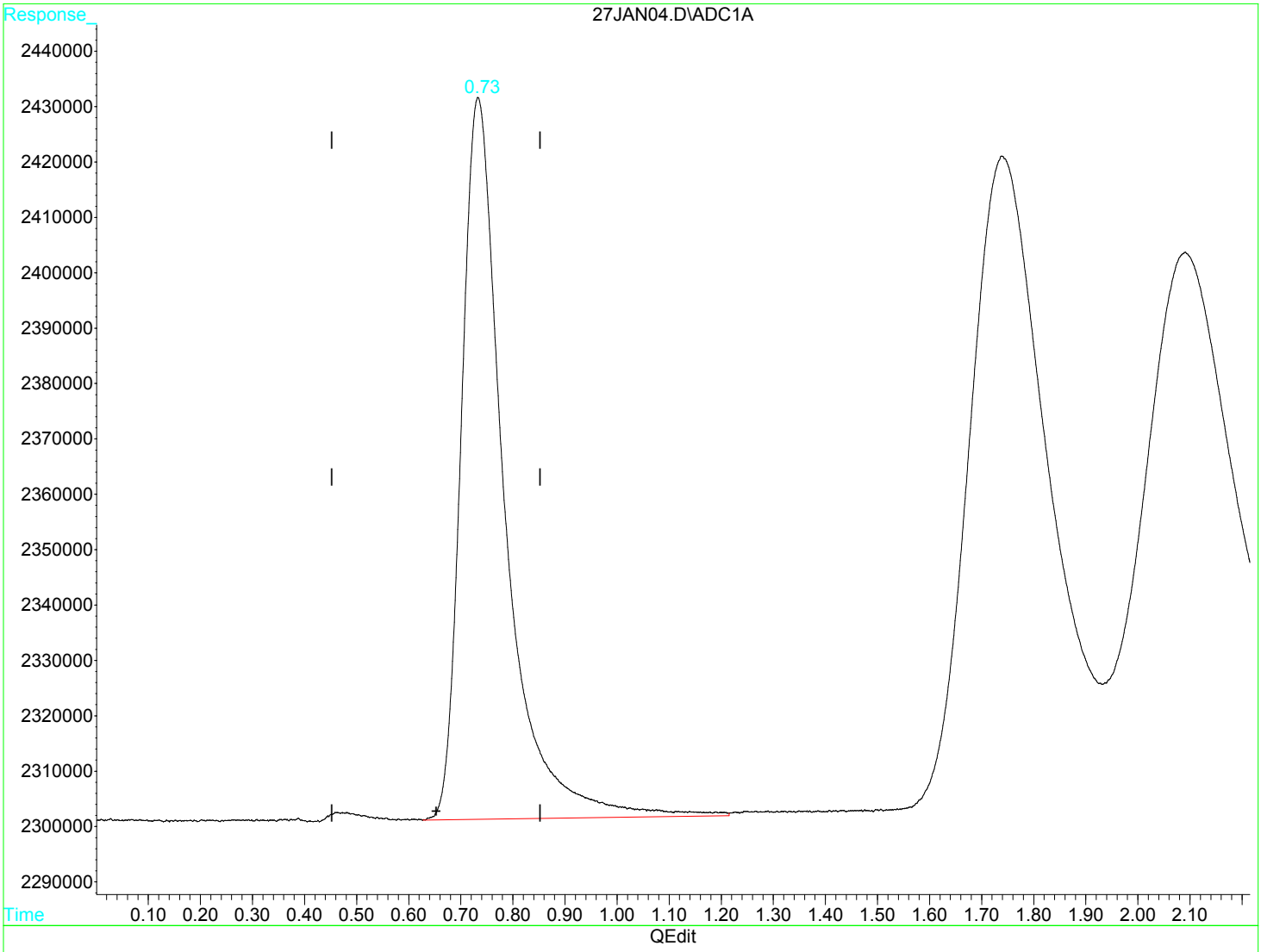
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN04.D Vial: 4
Acq On : 27 Jan 2017 7:52 am Operator: JH2
Sample : 1701454-CAL2 Inst : GC-V1
Misc : CAL 2 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:55 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 12.827ug/L

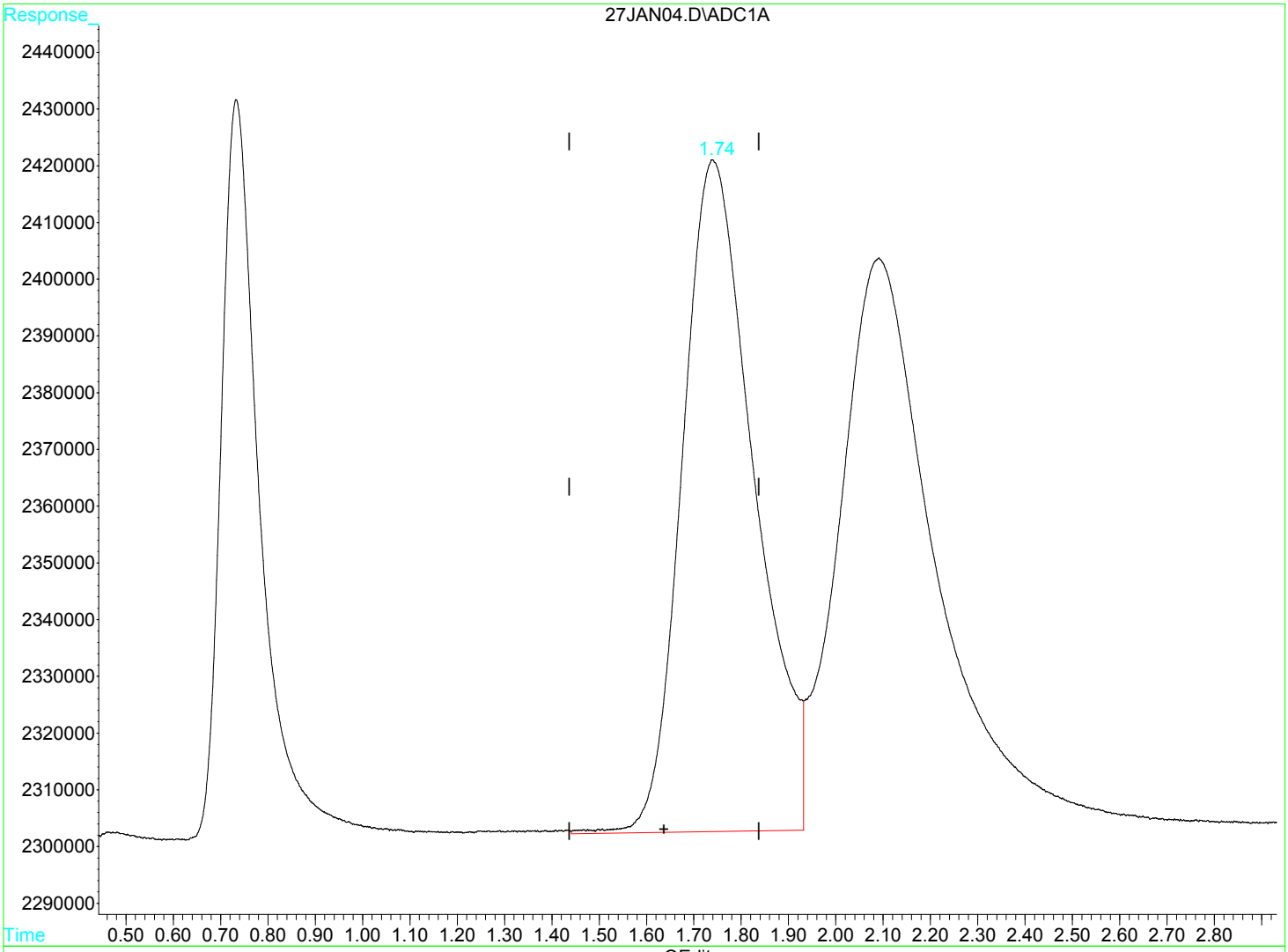
response 7510447

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN04.D Vial: 4
Acq On : 27 Jan 2017 7:52 am Operator: JH2
Sample : 1701454-CAL2 Inst : GC-V1
Misc : CAL 2 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:55 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.74min 32.434ug/L

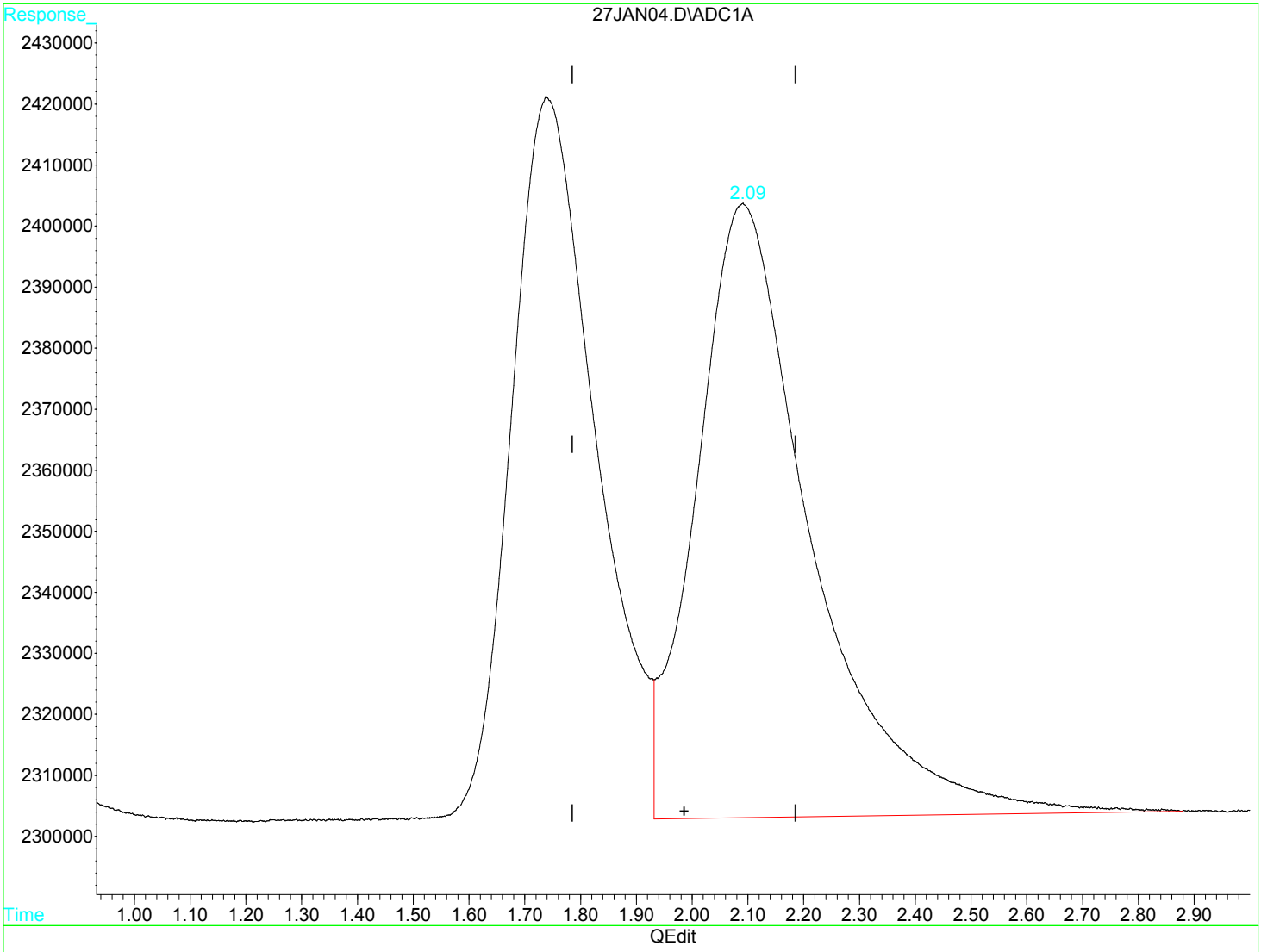
response 12518403

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN04.D Vial: 4
Acq On : 27 Jan 2017 7:52 am Operator: JH2
Sample : 1701454-CAL2 Inst : GC-V1
Misc : CAL 2 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:55 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.09min 25.019ug/L

response 14383928

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN03.D Vial: 3
Acq On : 27 Jan 2017 7:47 am Operator: JH2
Sample : 1701454-CAL3 Inst : GC-V1
Misc : CAL 3 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:50 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
Target Compounds					
1) m	Methane	0.73	53526843	91.4168	ug/L
2) m	Ethene	1.73	94904572	245.8892	ug/L
3) m	Ethane	2.08	108935077	189.4801	ug/L

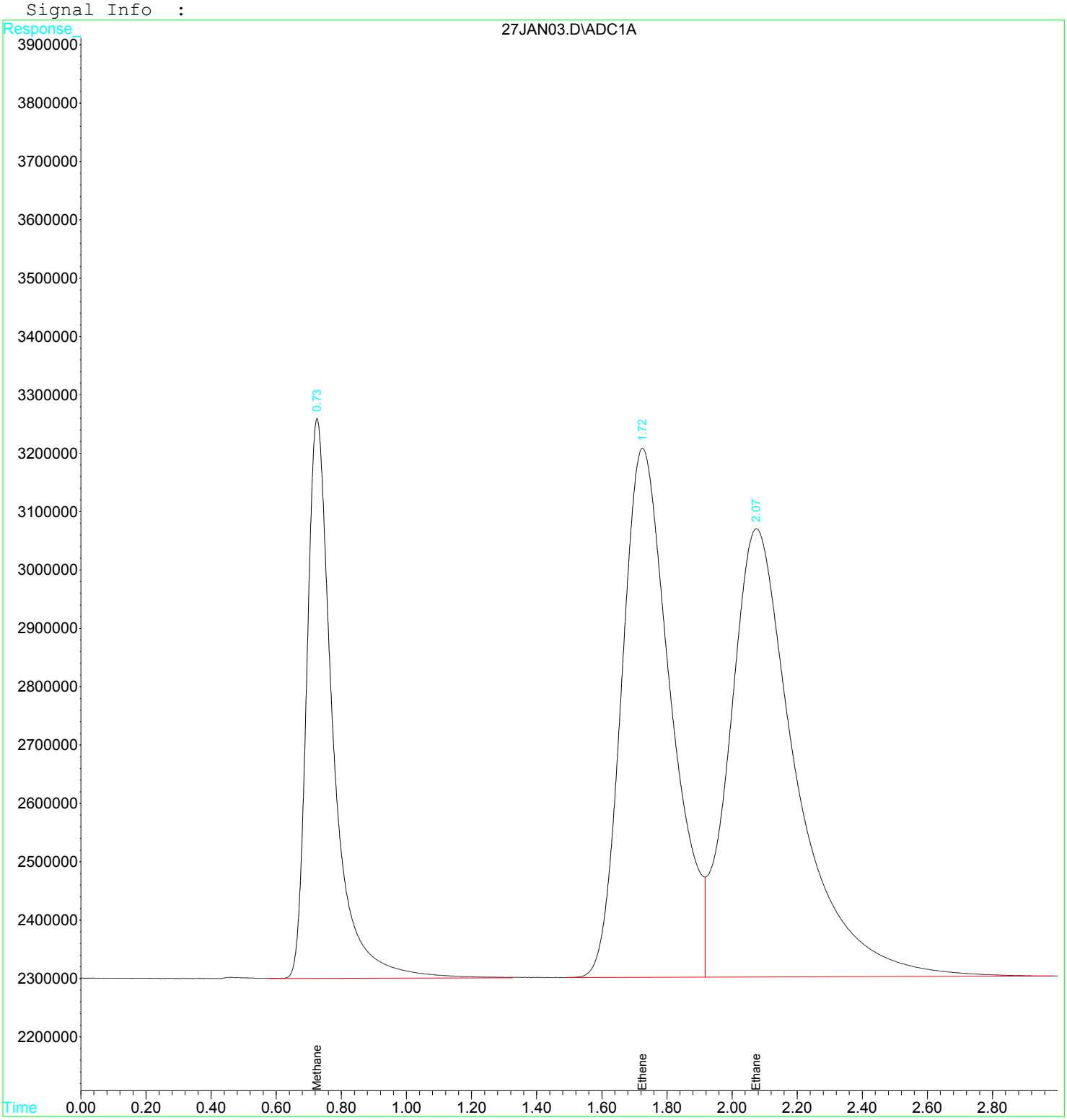
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN03.D Vial: 3
Acq On : 27 Jan 2017 7:47 am Operator: JH2
Sample : 1701454-CAL3 Inst : GC-V1
Misc : CAL 3 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:50 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

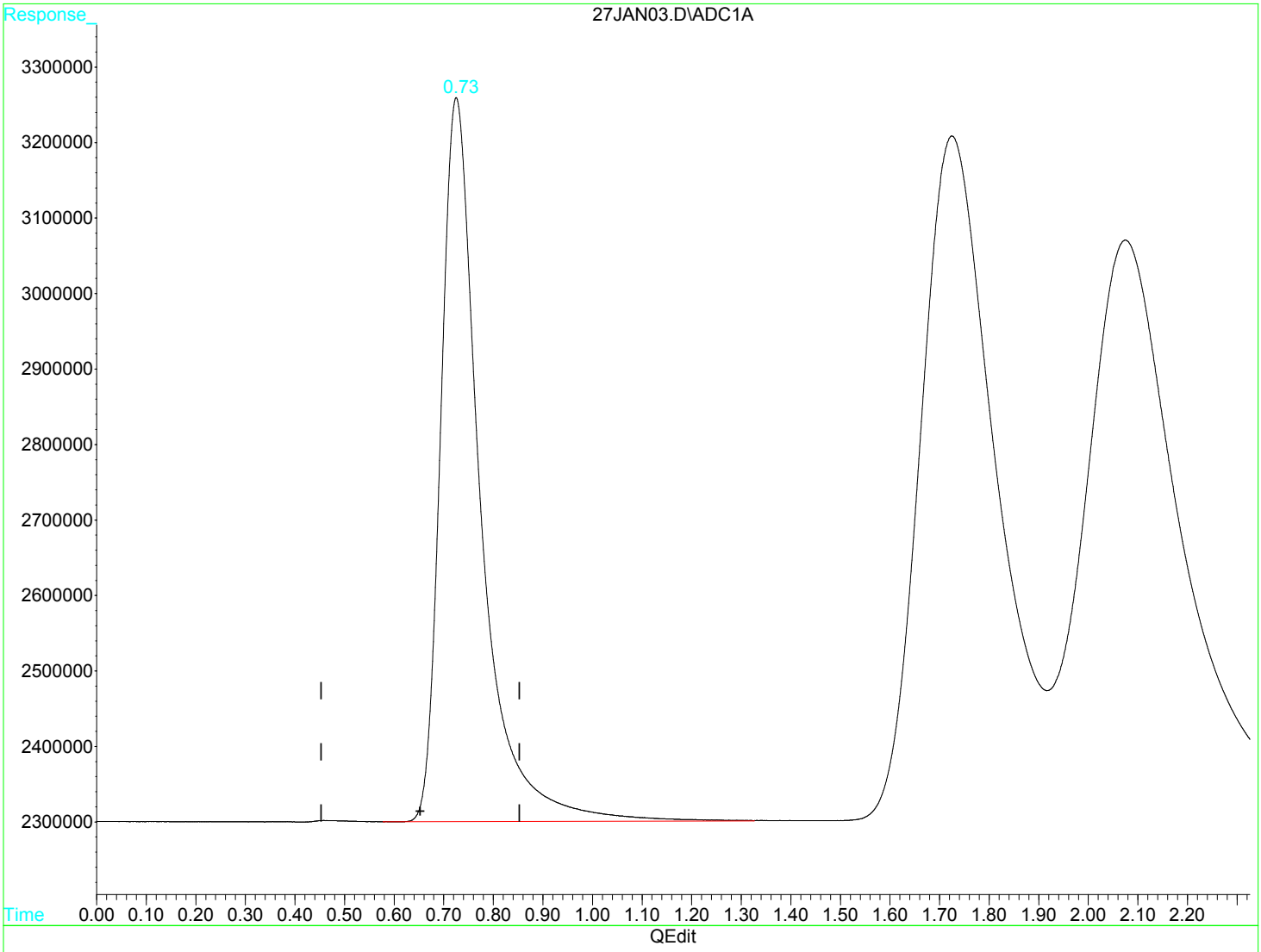
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN03.D Vial: 3
Acq On : 27 Jan 2017 7:47 am Operator: JH2
Sample : 1701454-CAL3 Inst : GC-V1
Misc : CAL 3 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:50 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 91.417ug/L

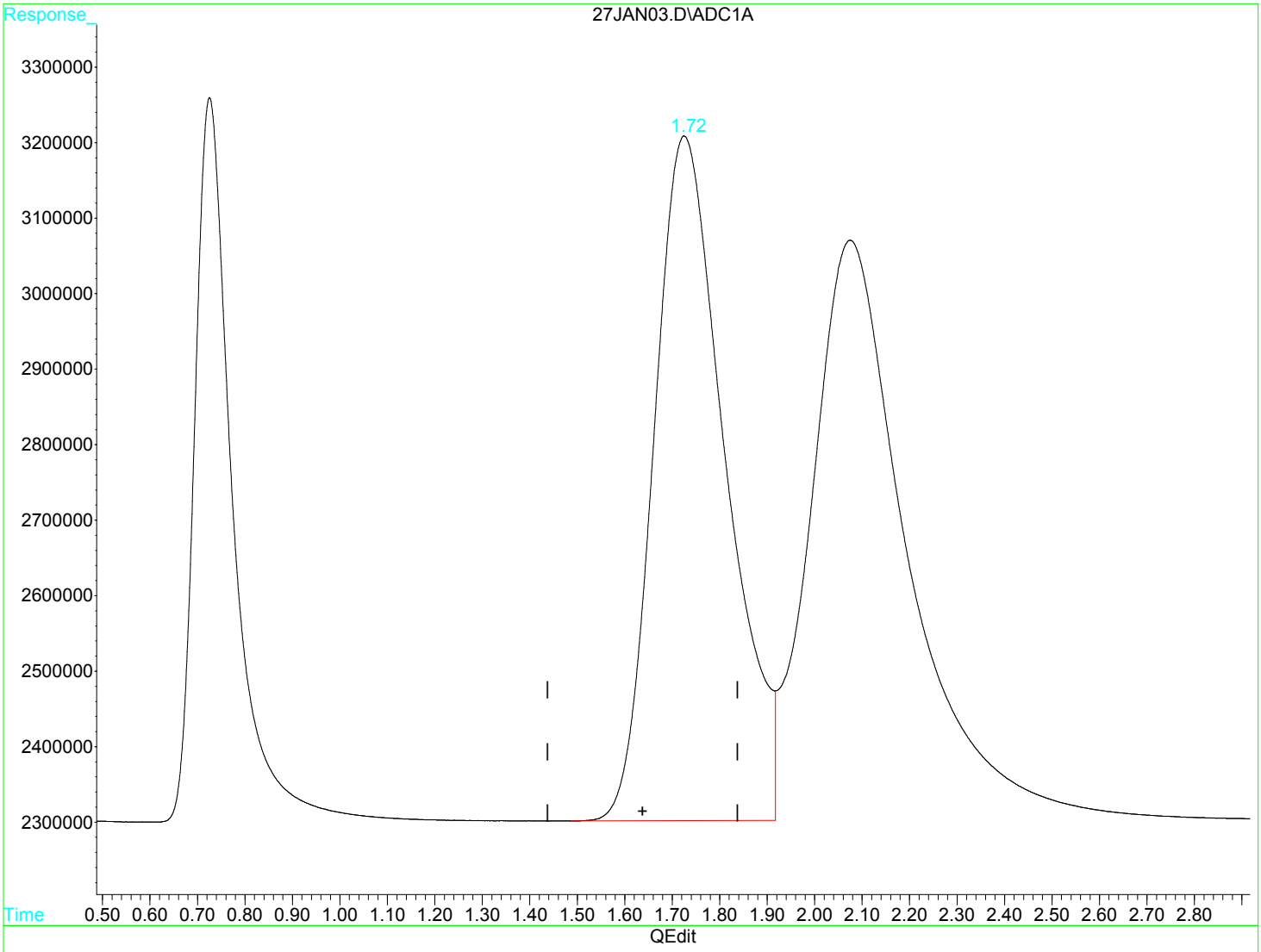
response 53526843

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN03.D Vial: 3
Acq On : 27 Jan 2017 7:47 am Operator: JH2
Sample : 1701454-CAL3 Inst : GC-V1
Misc : CAL 3 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:50 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.73min 245.889ug/L

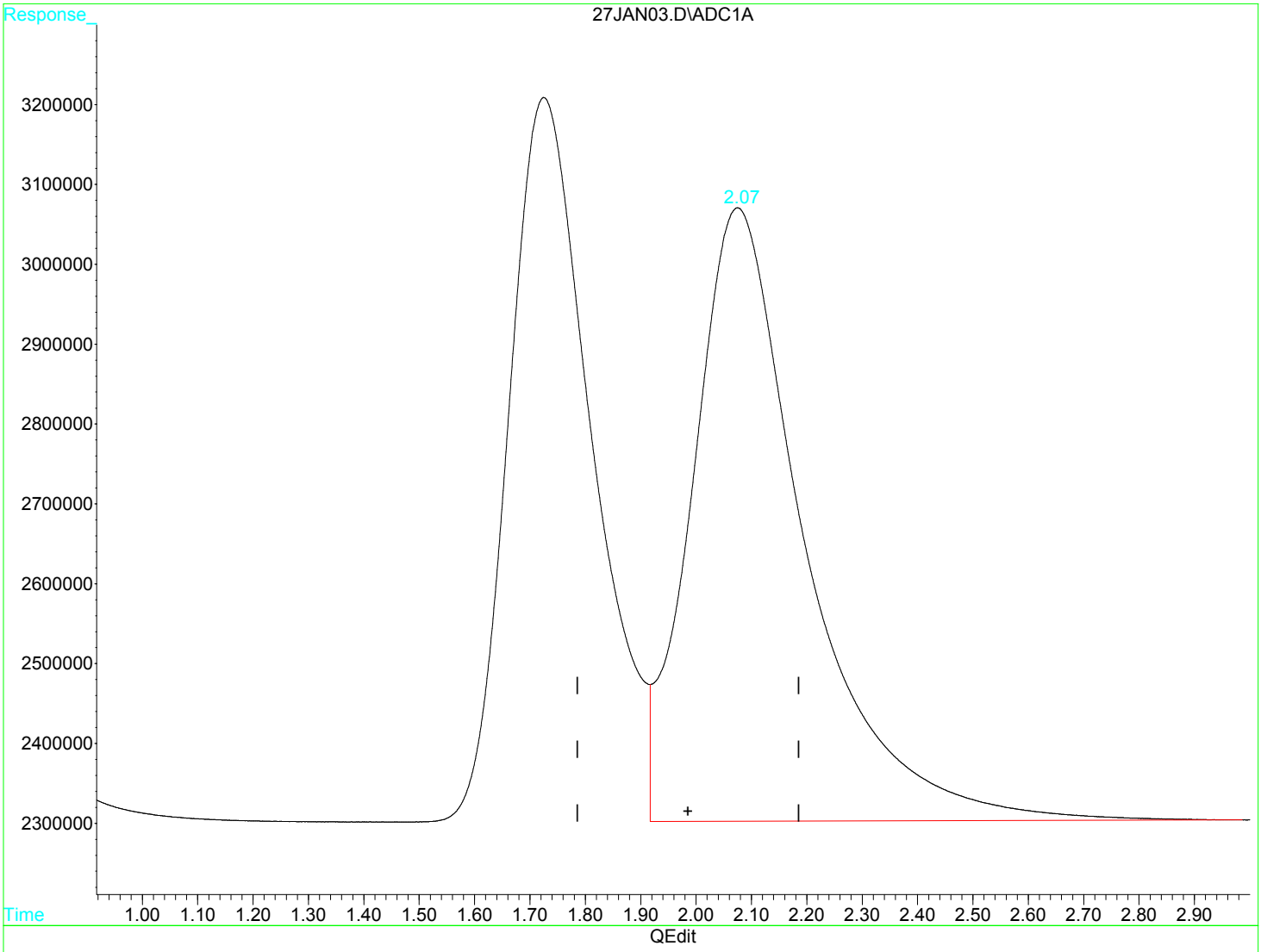
response 94904572

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN03.D Vial: 3
Acq On : 27 Jan 2017 7:47 am Operator: JH2
Sample : 1701454-CAL3 Inst : GC-V1
Misc : CAL 3 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:50 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.08min 189.480ug/L

response 108935077

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN02.D Vial: 2
Acq On : 27 Jan 2017 7:43 am Operator: JH2
Sample : 1701454-CAL4 Inst : GC-V1
Misc : CAL 4 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:46 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.73	323602300	552.6703	ug/L
2) m	Ethene	1.74f	563612878	1460.2703	ug/L
3) m	Ethane	2.09f	624041169	1085.4482	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int

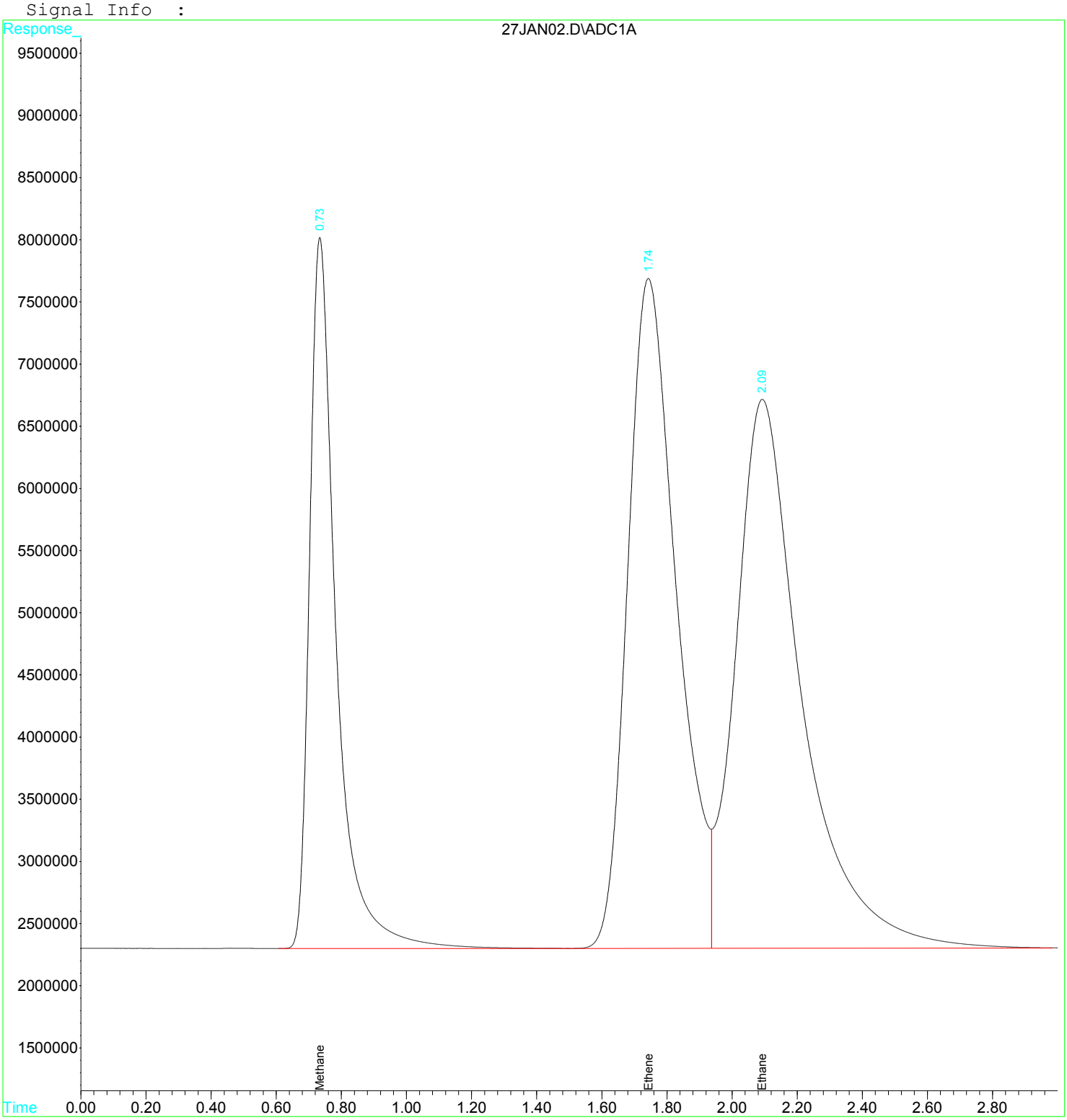
27JAN02.D RSK175.M Wed Feb 15 08:42:24 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN02.D Vial: 2
Acq On : 27 Jan 2017 7:43 am Operator: JH2
Sample : 1701454-CAL4 Inst : GC-V1
Misc : CAL 4 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:46 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Tue Jan 06 14:13:40 2015
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

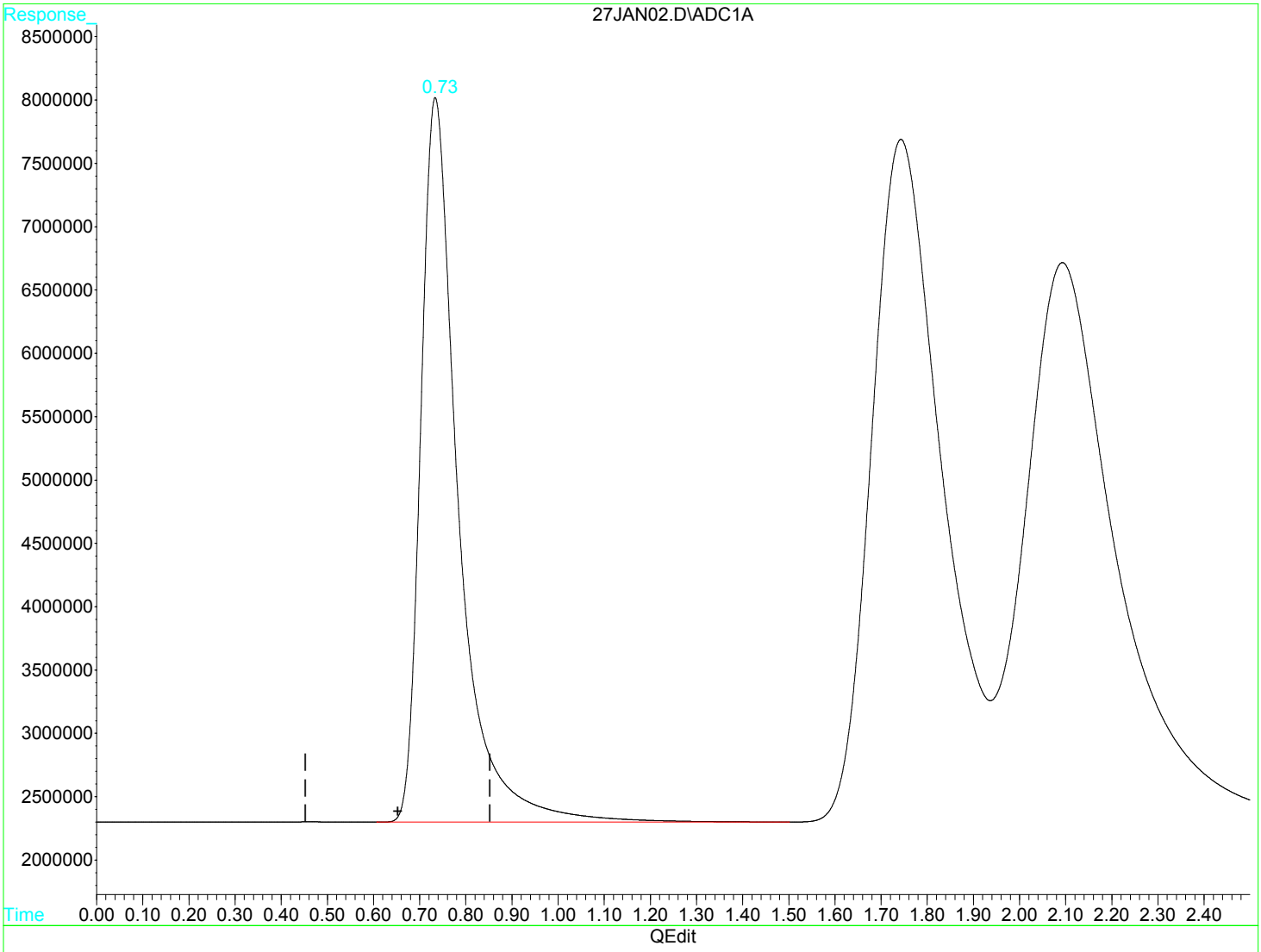
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN02.D Vial: 2
Acq On : 27 Jan 2017 7:43 am Operator: JH2
Sample : 1701454-CAL4 Inst : GC-V1
Misc : CAL 4 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:46 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 552.670ug/L

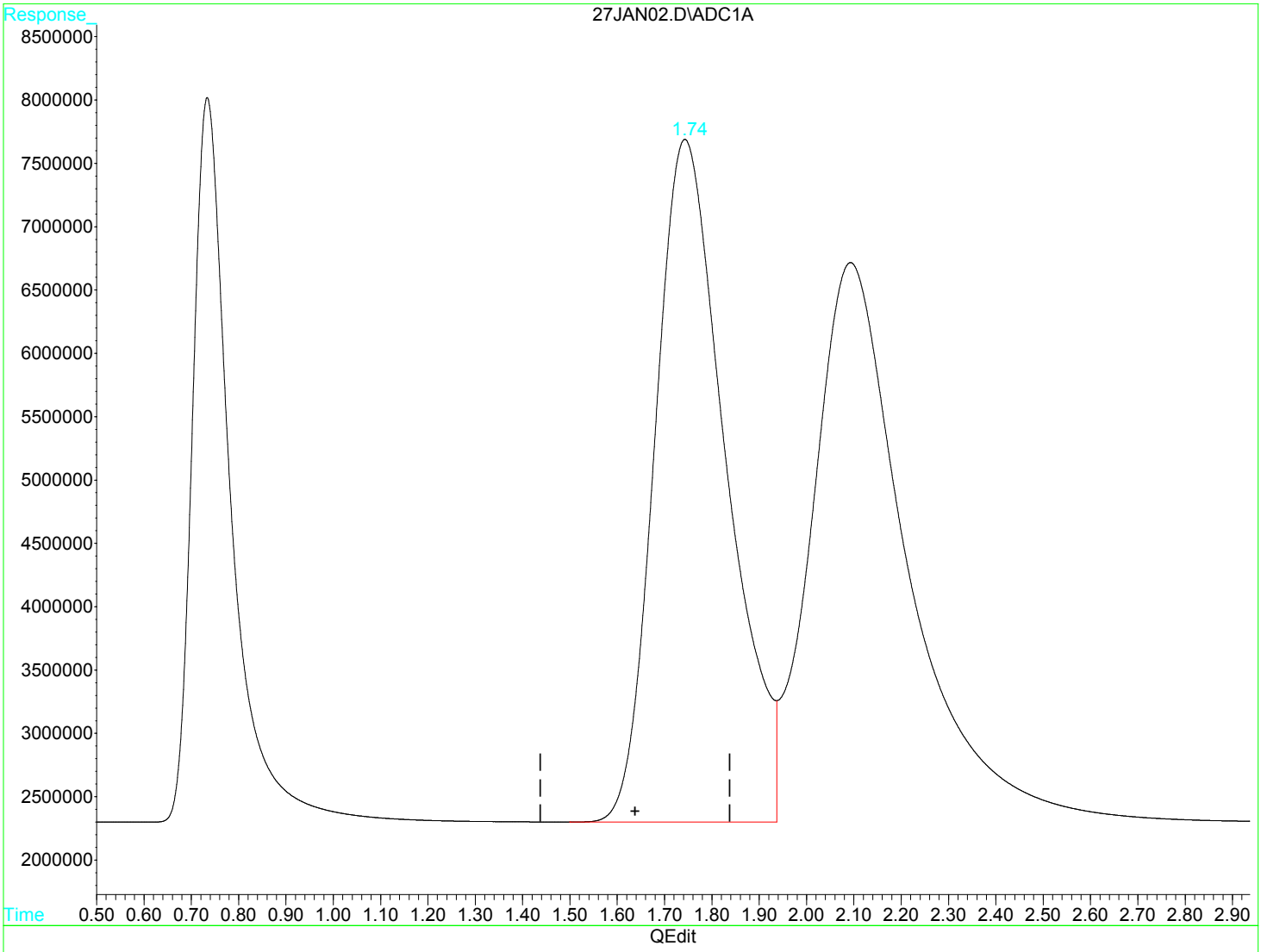
response 323602300

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN02.D Vial: 2
Acq On : 27 Jan 2017 7:43 am Operator: JH2
Sample : 1701454-CAL4 Inst : GC-V1
Misc : CAL 4 RSK-175 250UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Jan 27 7:46 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.74min 1460.270ug/L

response 563612878

(+) = Expected Retention Time

Raw Data - ICV

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN06.D Vial: 6
Acq On : 27 Jan 2017 8:40 am Operator: JH2
Sample : 1701454-ICV1 Inst : GC-V1
Misc : ICV 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:20 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) m Methane	0.74	7368524	12.1735 ug/L
2) m Ethene	1.75	12806794	31.8199 ug/L
3) m Ethane	2.10	14497414	24.9563 ug/L

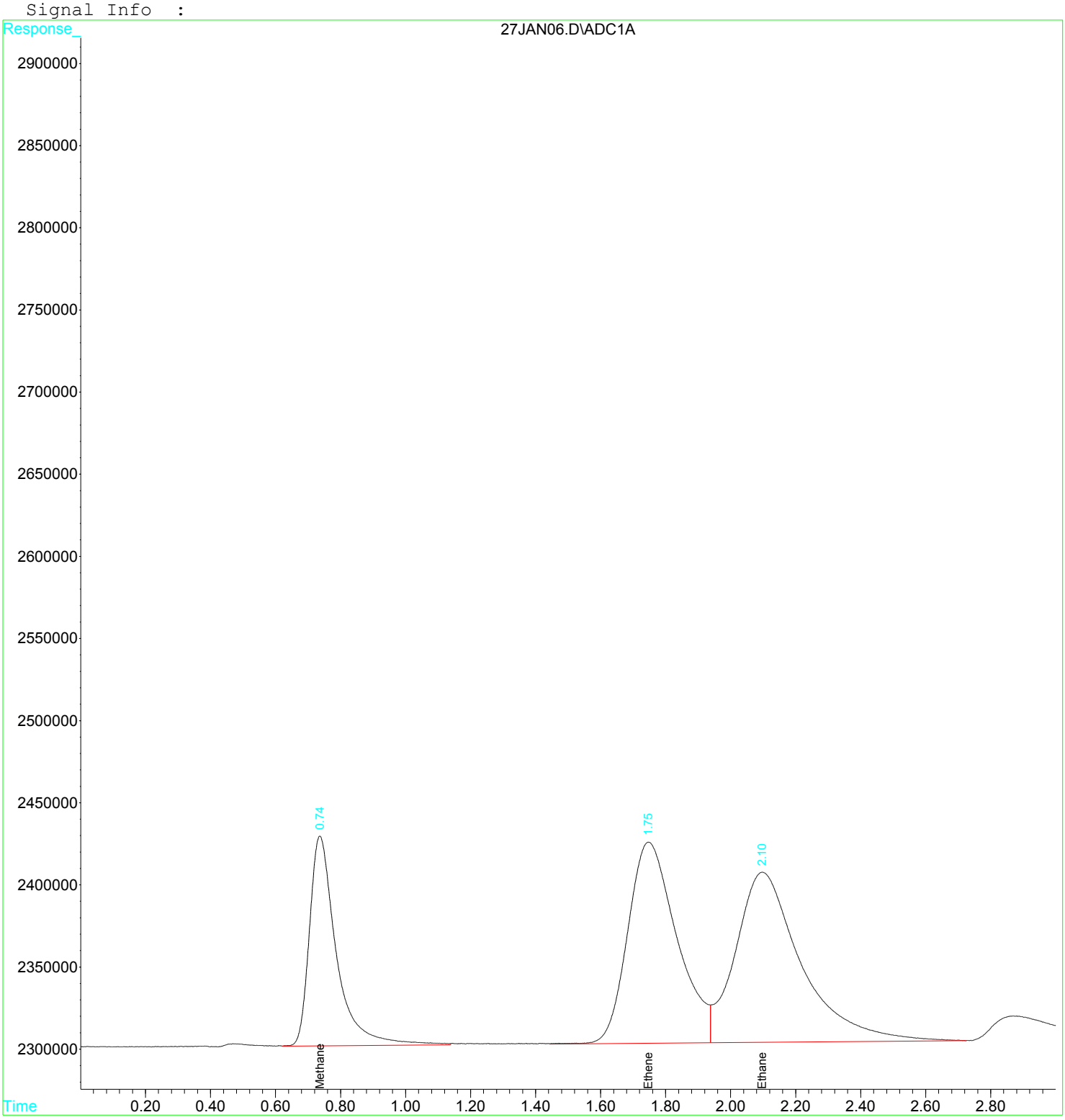
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN06.D Vial: 6
Acq On : 27 Jan 2017 8:40 am Operator: JH2
Sample : 1701454-ICV1 Inst : GC-V1
Misc : ICV 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:20 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

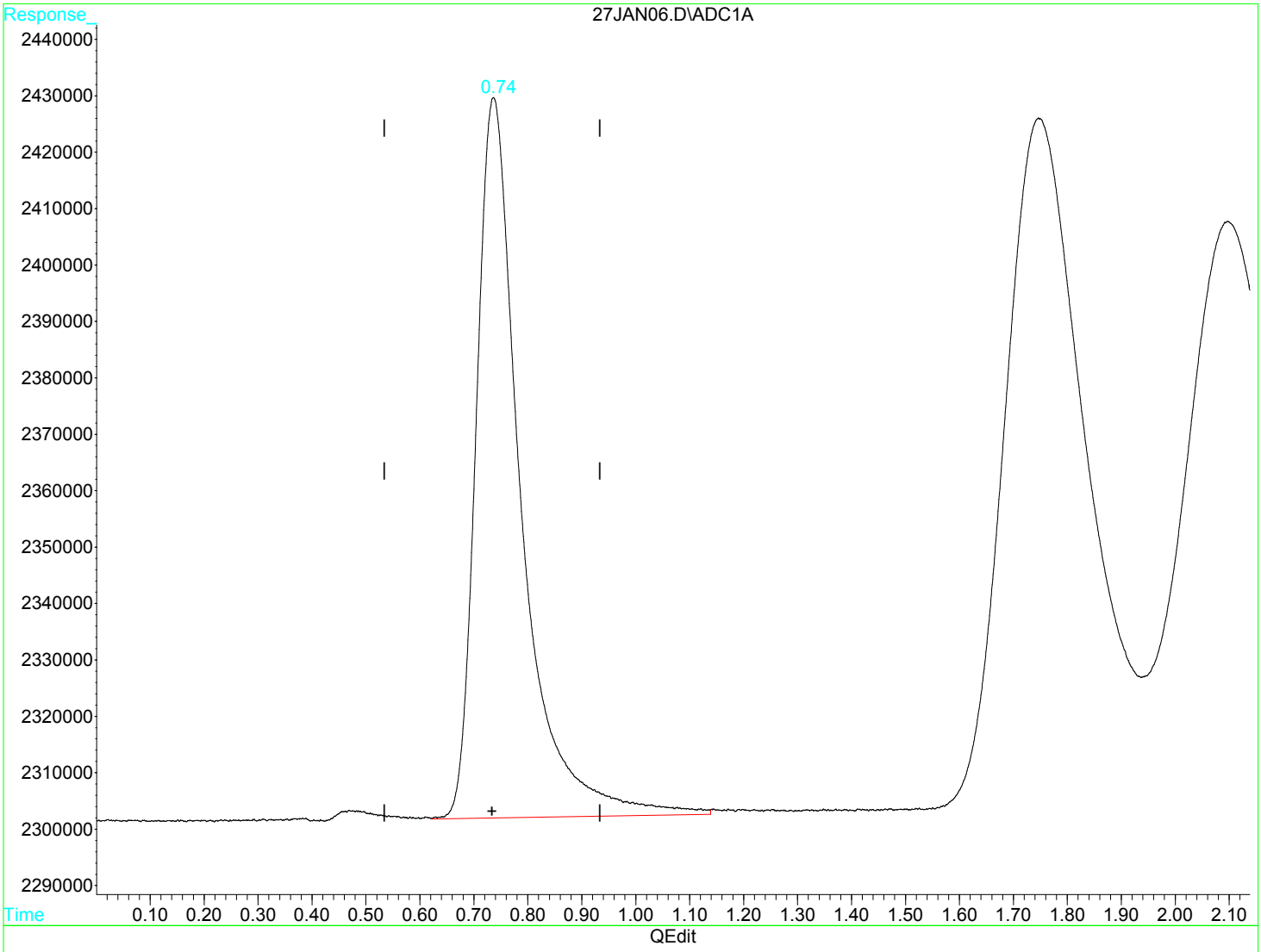
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN06.D Vial: 6
Acq On : 27 Jan 2017 8:40 am Operator: JH2
Sample : 1701454-ICV1 Inst : GC-V1
Misc : ICV 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:20 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.74min 12.173ug/L

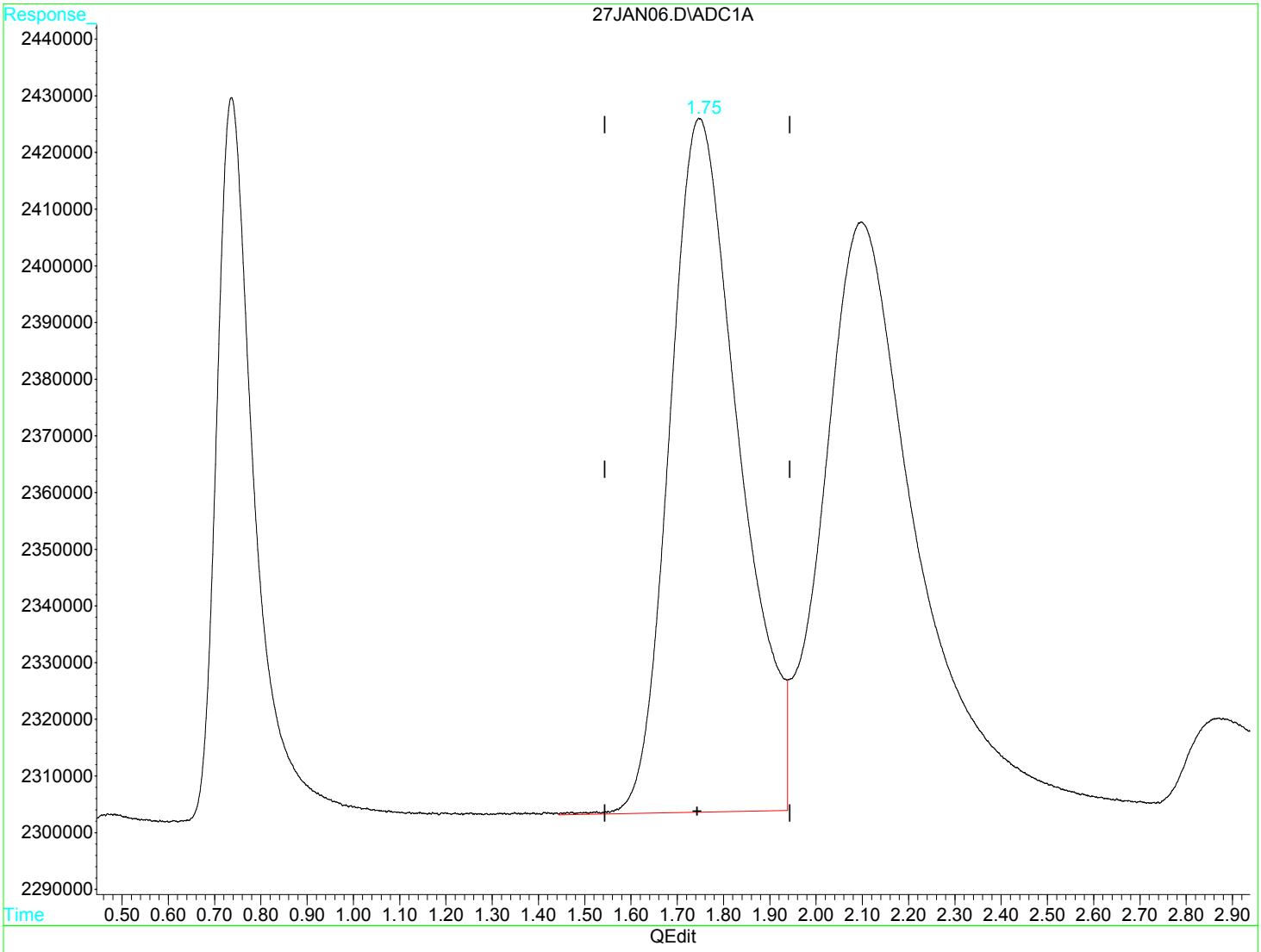
response 7368524

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN06.D Vial: 6
Acq On : 27 Jan 2017 8:40 am Operator: JH2
Sample : 1701454-ICV1 Inst : GC-V1
Misc : ICV 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:20 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.75min 31.820ug/L

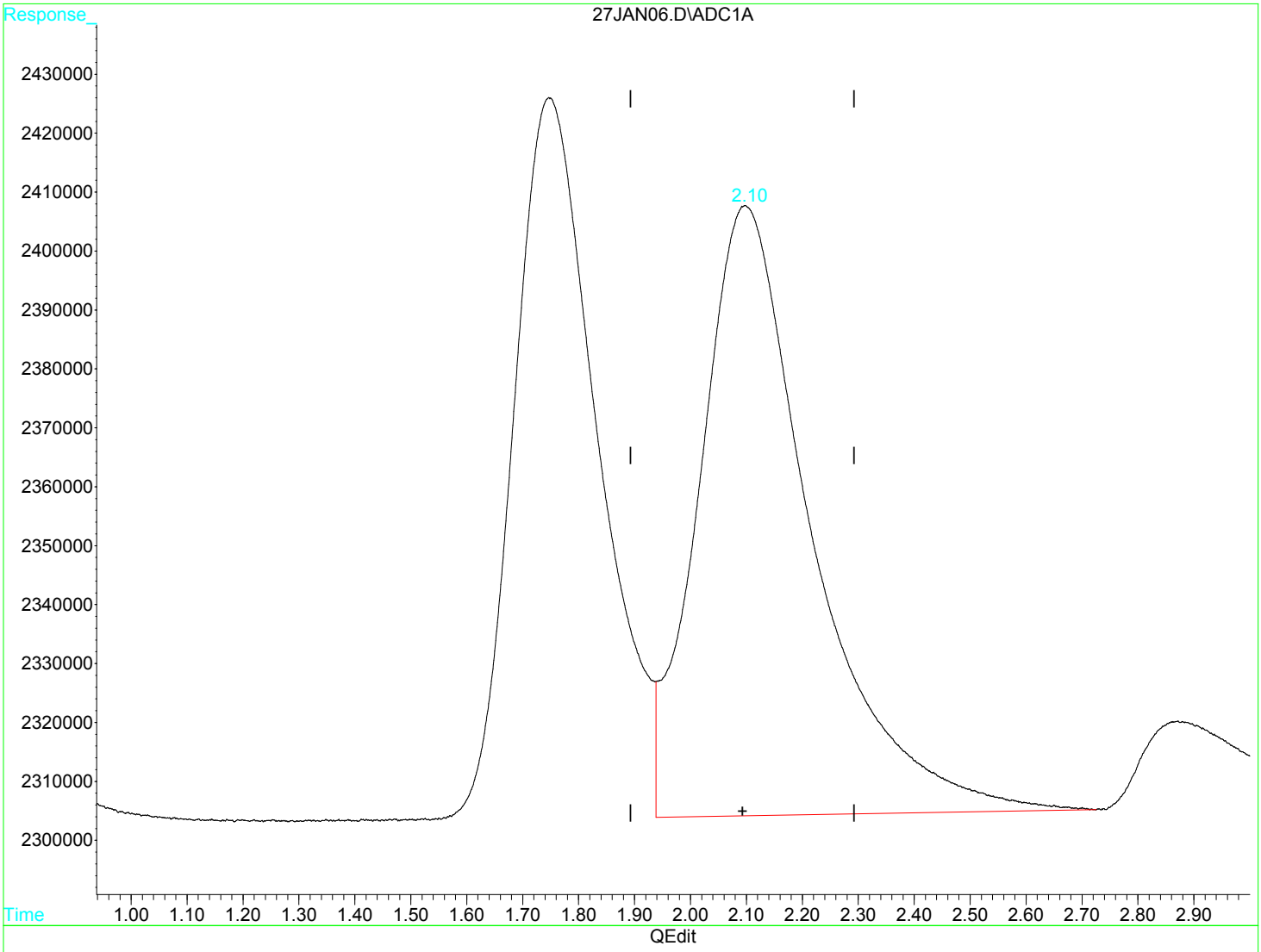
response 12806794

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN06.D Vial: 6
Acq On : 27 Jan 2017 8:40 am Operator: JH2
Sample : 1701454-ICV1 Inst : GC-V1
Misc : ICV 1 RSK-175 25UL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:20 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.10min 24.956ug/L

response 14497414

(+) = Expected Retention Time

27JAN06.D RSK175.M Tue Feb 07 10:21:14 2017 MSD1

Raw Data - ICB

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN07.D Vial: 7
Acq On : 27 Jan 2017 8:45 am Operator: JH2
Sample : 1701454-ICB1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:21 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) m	Methane	0.00	0	N.D.	ug/L	d
2) m	Ethene	0.00	0	N.D.	ug/L	
3) m	Ethane	0.00	0	N.D.	ug/L	

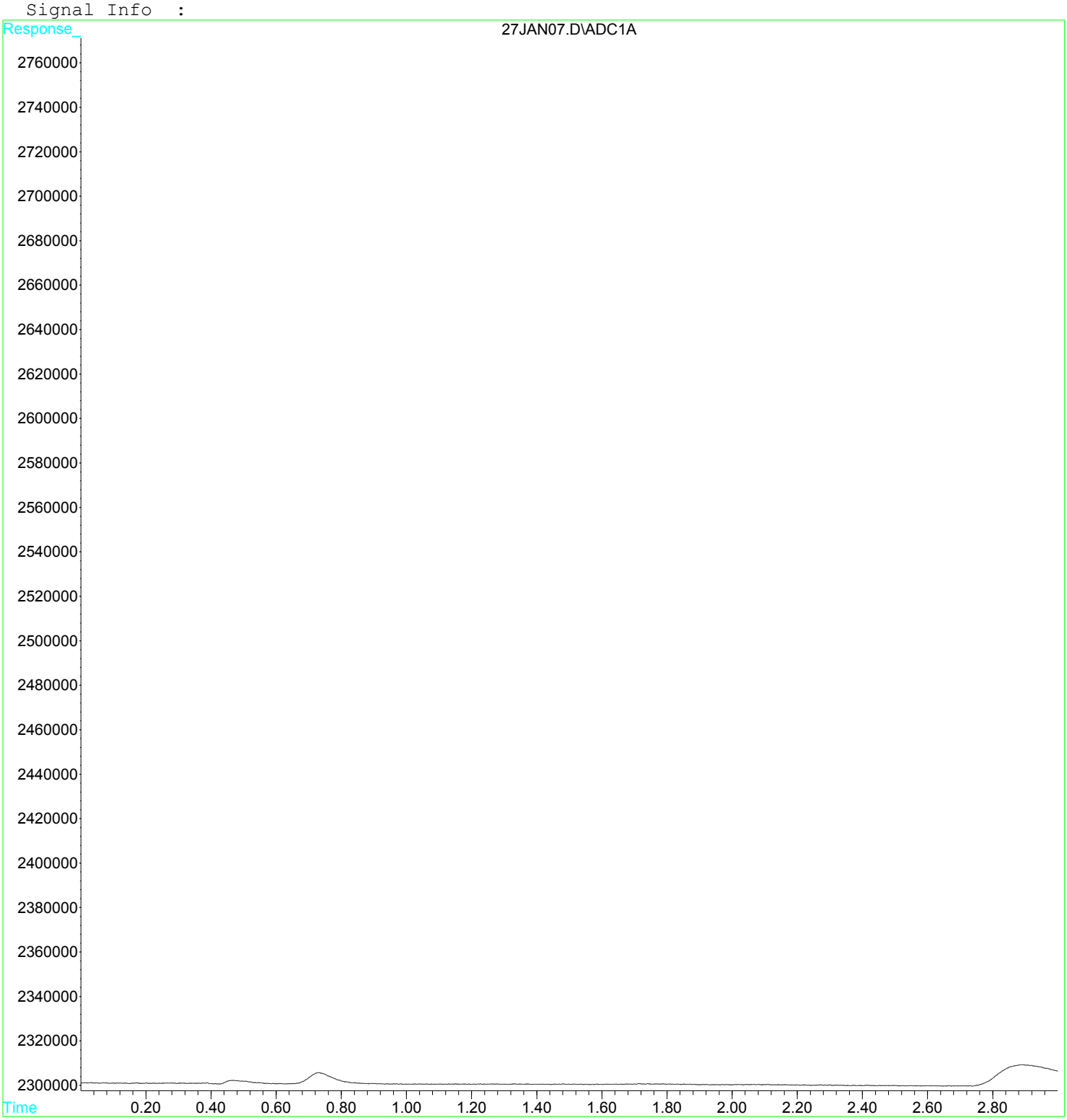
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\JAN2017\JAN27\27JAN07.D Vial: 7
Acq On : 27 Jan 2017 8:45 am Operator: JH2
Sample : 1701454-ICB1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Feb 7 10:21 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Raw Data - CCV

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG02.D Vial: 2
Acq On : 3 Aug 2017 7:34 am Operator: JH2
Sample : 1713689-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:54 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1) m	Methane	0.73	6527771	10.7845	ug/L	m
2) m	Ethene	1.72	11712324	29.1006	ug/L	m
3) m	Ethane	2.06	14455265	24.8837	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int

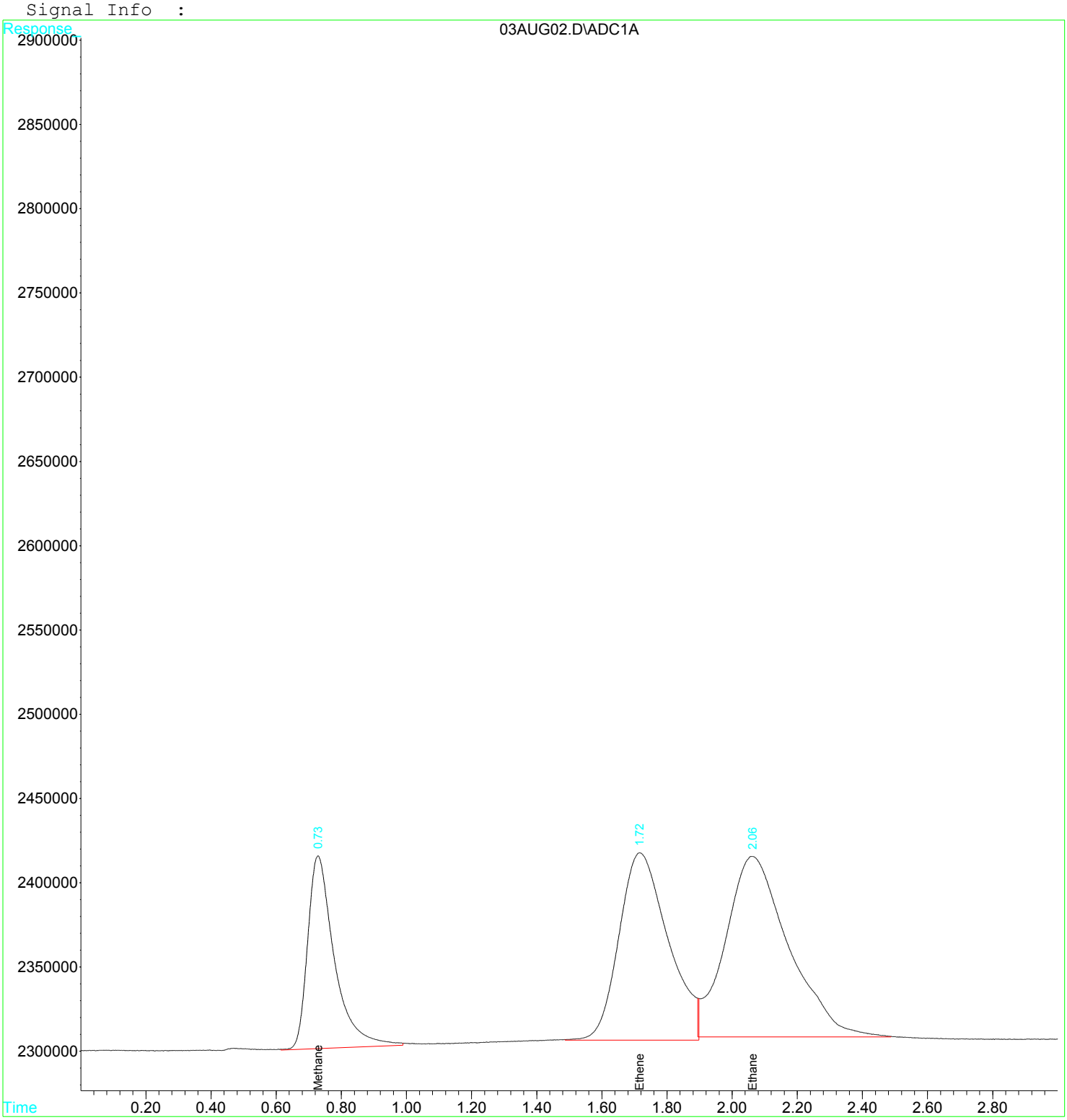
03AUG02.D RSK175.M Thu Aug 03 13:54:40 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG02.D Vial: 2
Acq On : 3 Aug 2017 7:34 am Operator: JH2
Sample : 1713689-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:54 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

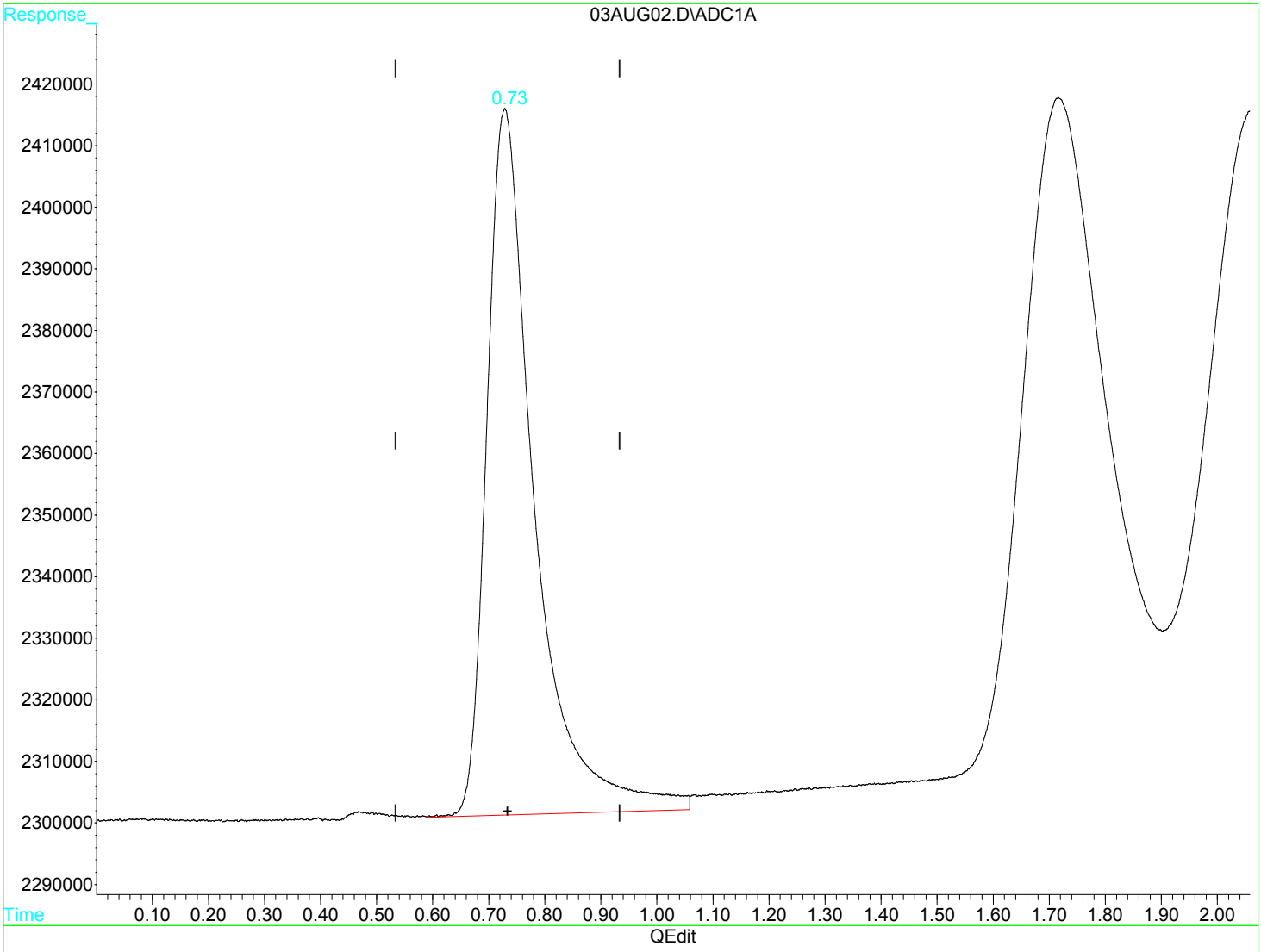
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG02.D Vial: 2
Acq On : 3 Aug 2017 7:34 am Operator: JH2
Sample : 1713689-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 7:37 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 11.214ug/L

response 6787781

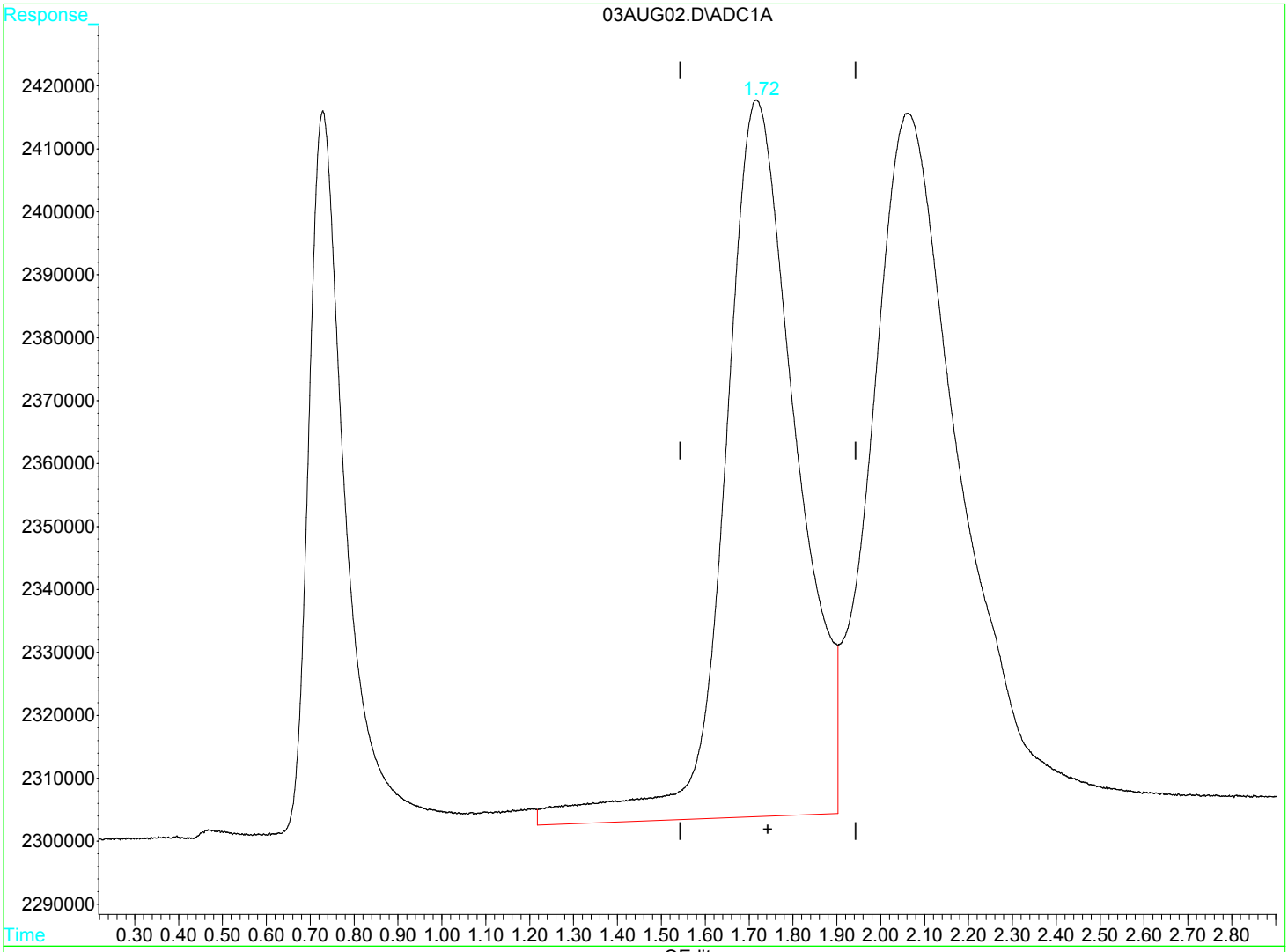
(+) = Expected Retention Time

03AUG02.D RSK175.M Thu Aug 03 13:53:28 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG02.D Vial: 2
Acq On : 3 Aug 2017 7:34 am Operator: JH2
Sample : 1713689-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 7:37 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.72min 32.179ug/L

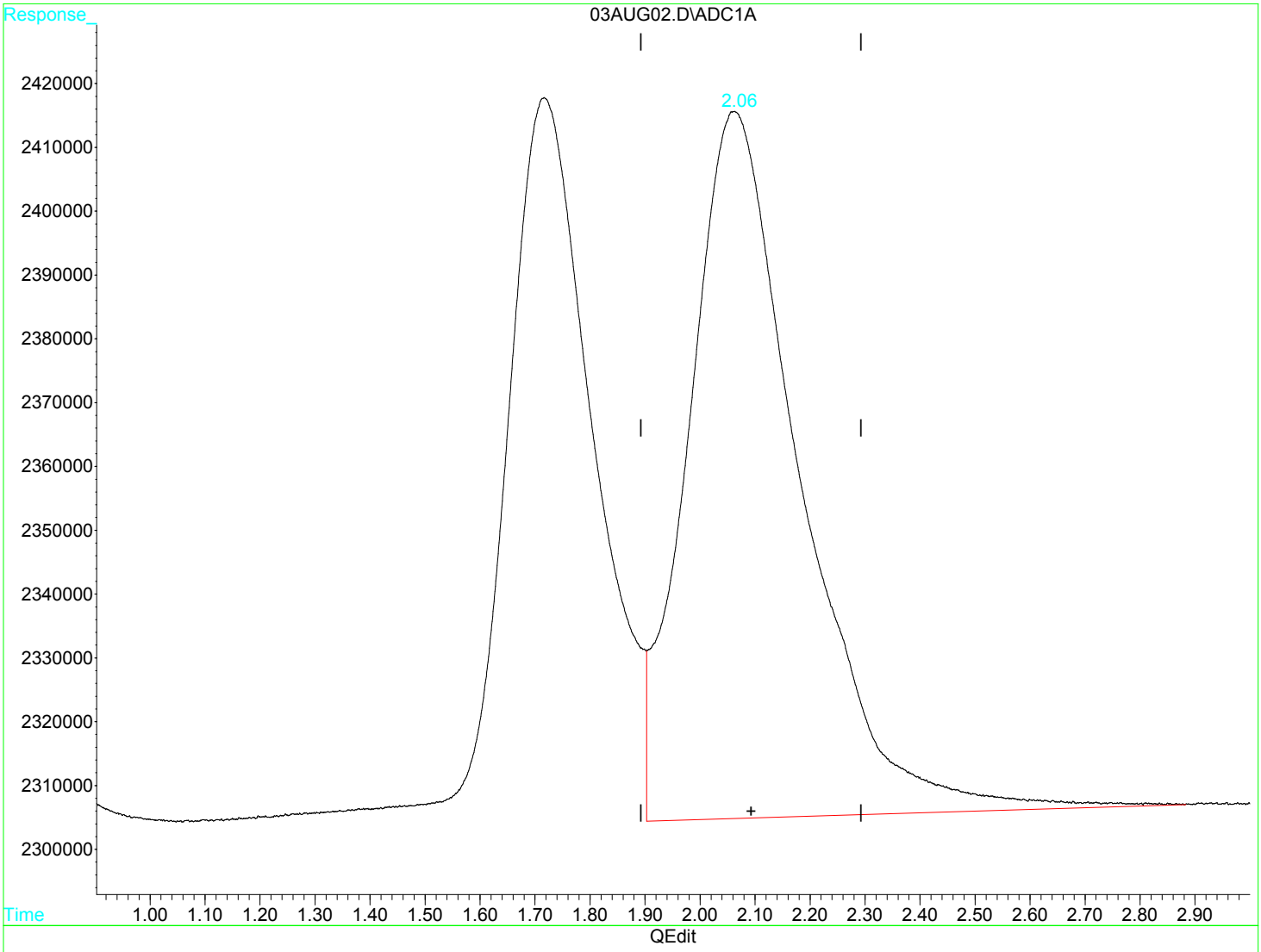
response 12951281

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG02.D Vial: 2
Acq On : 3 Aug 2017 7:34 am Operator: JH2
Sample : 1713689-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 7:37 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.06min 27.177ug/L

response 15787321

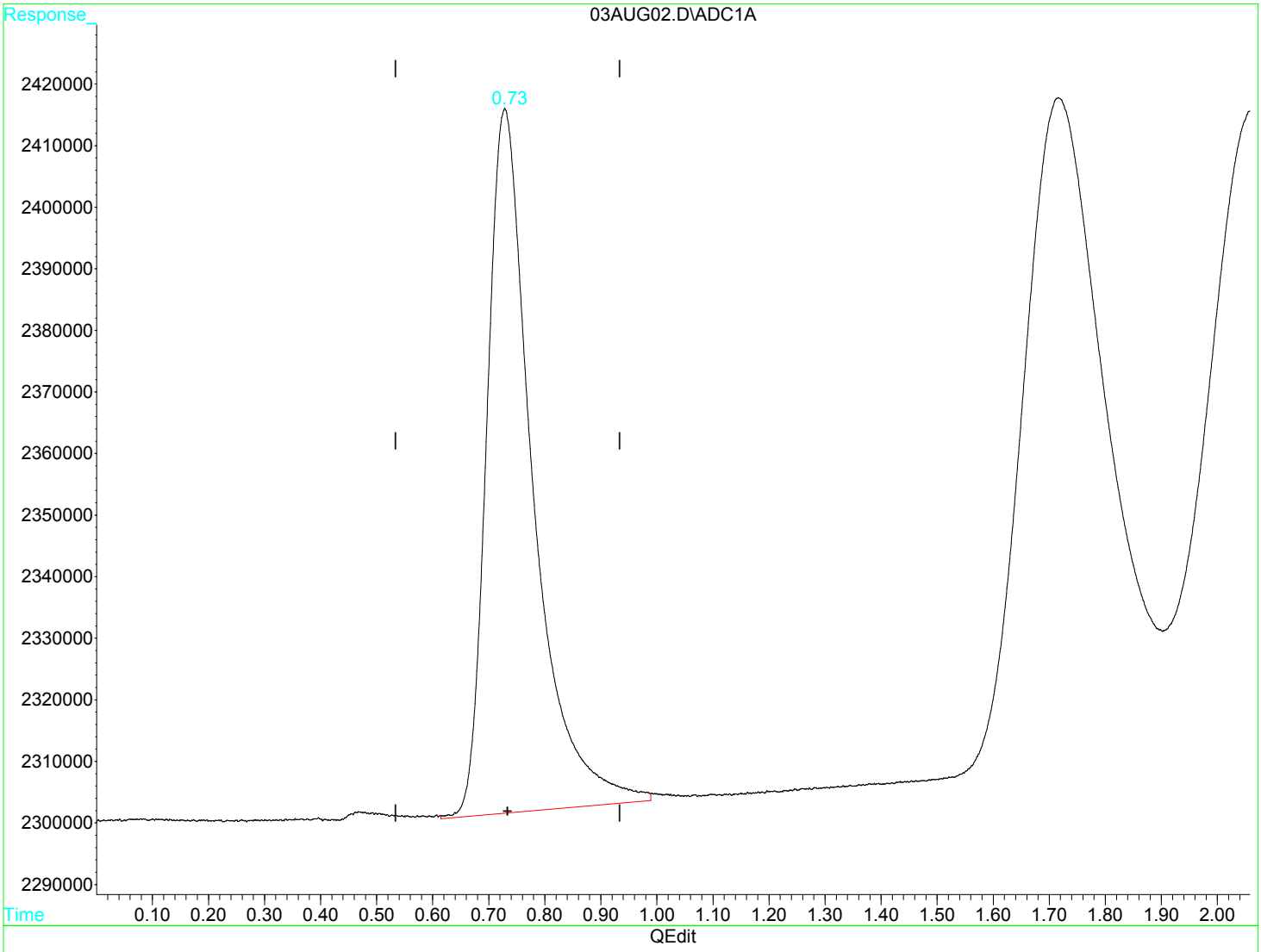
(+) = Expected Retention Time

03AUG02.D RSK175.M Thu Aug 03 13:54:01 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG02.D Vial: 2
Acq On : 3 Aug 2017 7:34 am Operator: JH2
Sample : 1713689-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 7:37 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 10.784ug/L m

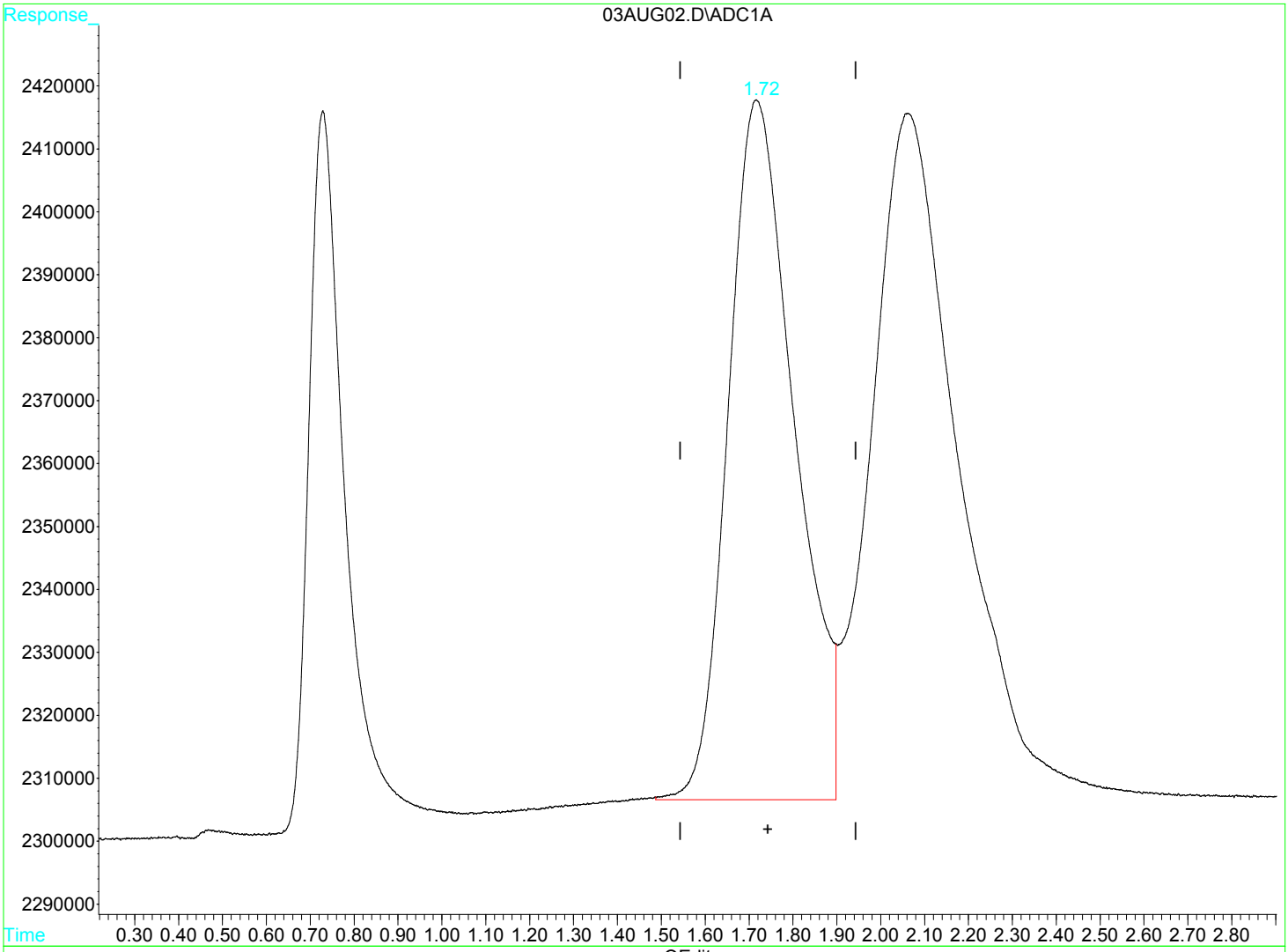
response 6527771

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG02.D Vial: 2
Acq On : 3 Aug 2017 7:34 am Operator: JH2
Sample : 1713689-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 7:37 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.72min 29.101ug/L m

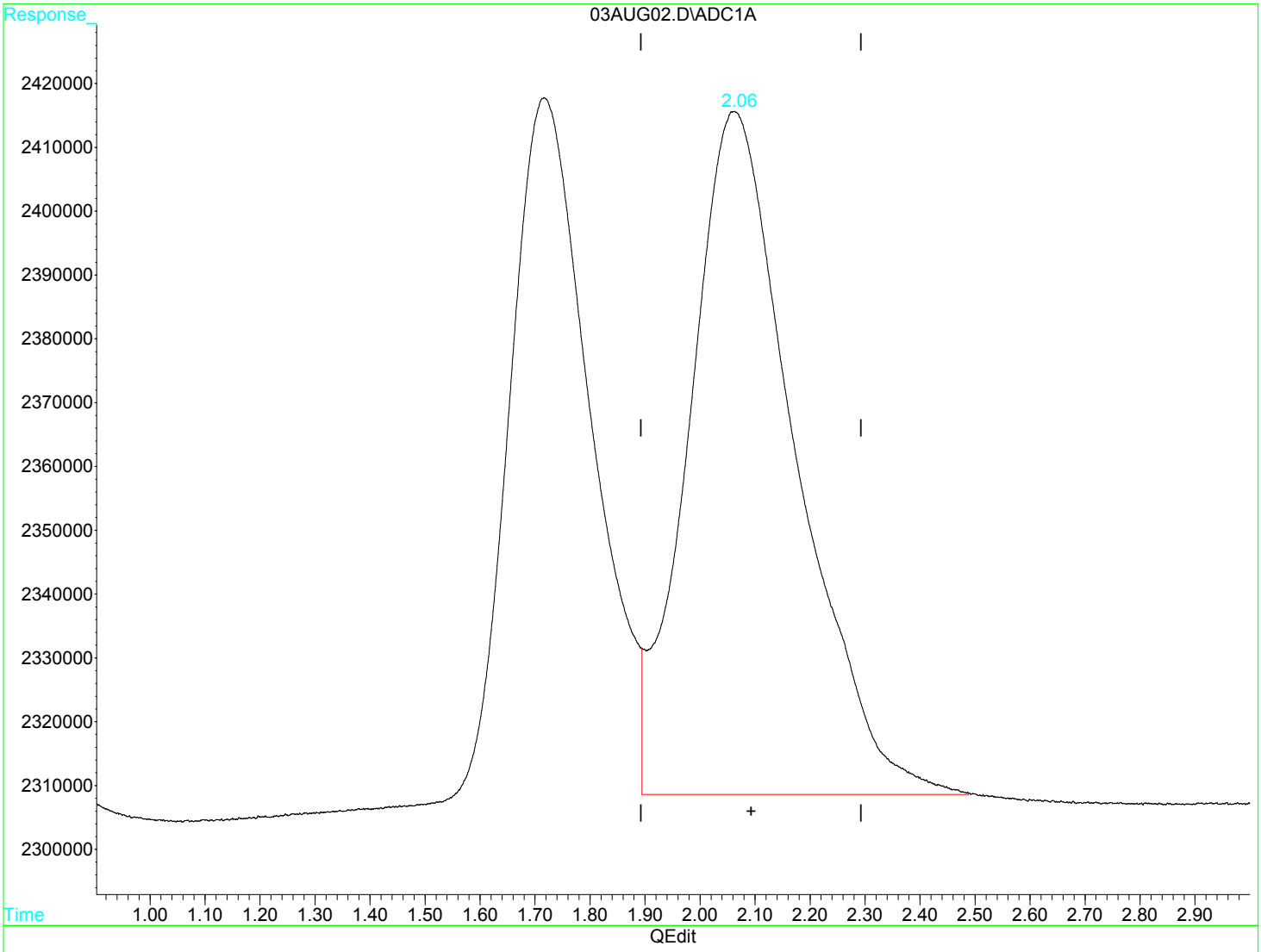
response 11712324

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG02.D Vial: 2
Acq On : 3 Aug 2017 7:34 am Operator: JH2
Sample : 1713689-CCV1 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 7:37 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.06min 24.884ug/L m

response 14455265

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG10.D Vial: 10
Acq On : 3 Aug 2017 8:13 am Operator: JH2
Sample : 1713689-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:00 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1) m	Methane	0.73	6370428	10.5245	ug/L	
2) m	Ethene	1.73	11269108	27.9994	ug/L	m
3) m	Ethane	2.08	14216052	24.4719	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int

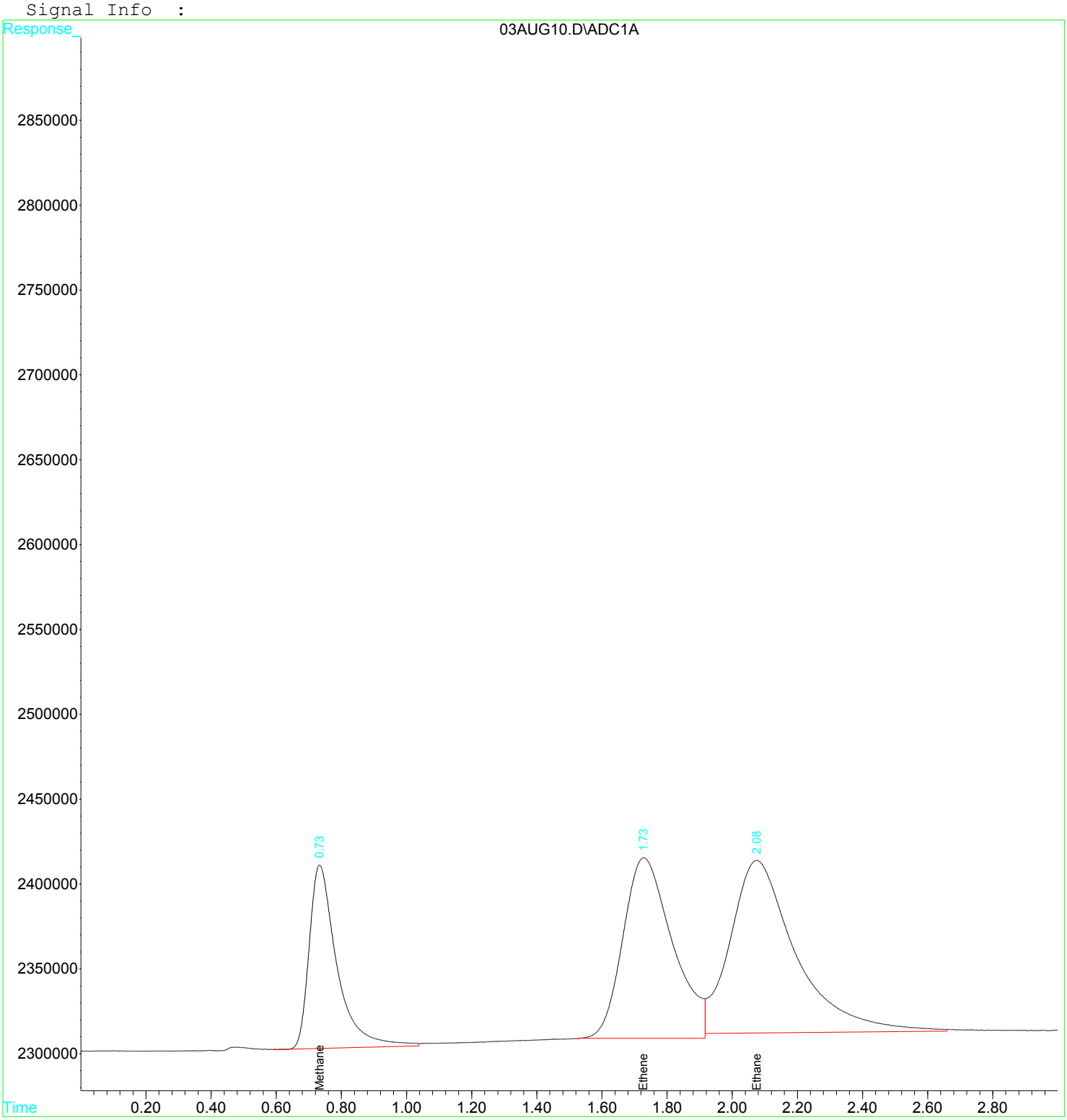
03AUG10.D RSK175.M Thu Aug 03 14:01:06 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG10.D Vial: 10
Acq On : 3 Aug 2017 8:13 am Operator: JH2
Sample : 1713689-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:00 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

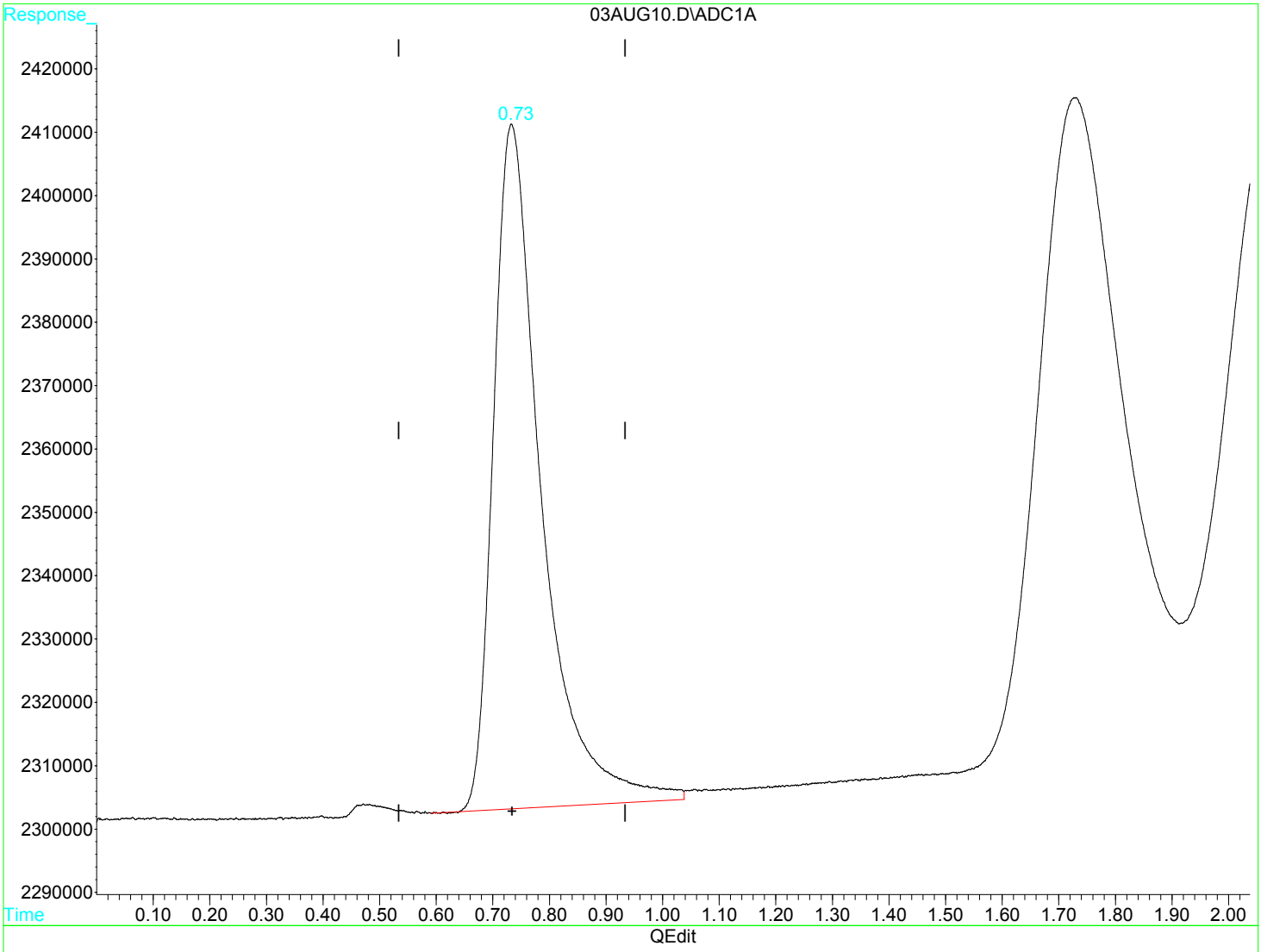
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG10.D Vial: 10
Acq On : 3 Aug 2017 8:13 am Operator: JH2
Sample : 1713689-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 8:19 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 10.525ug/L

response 6370428

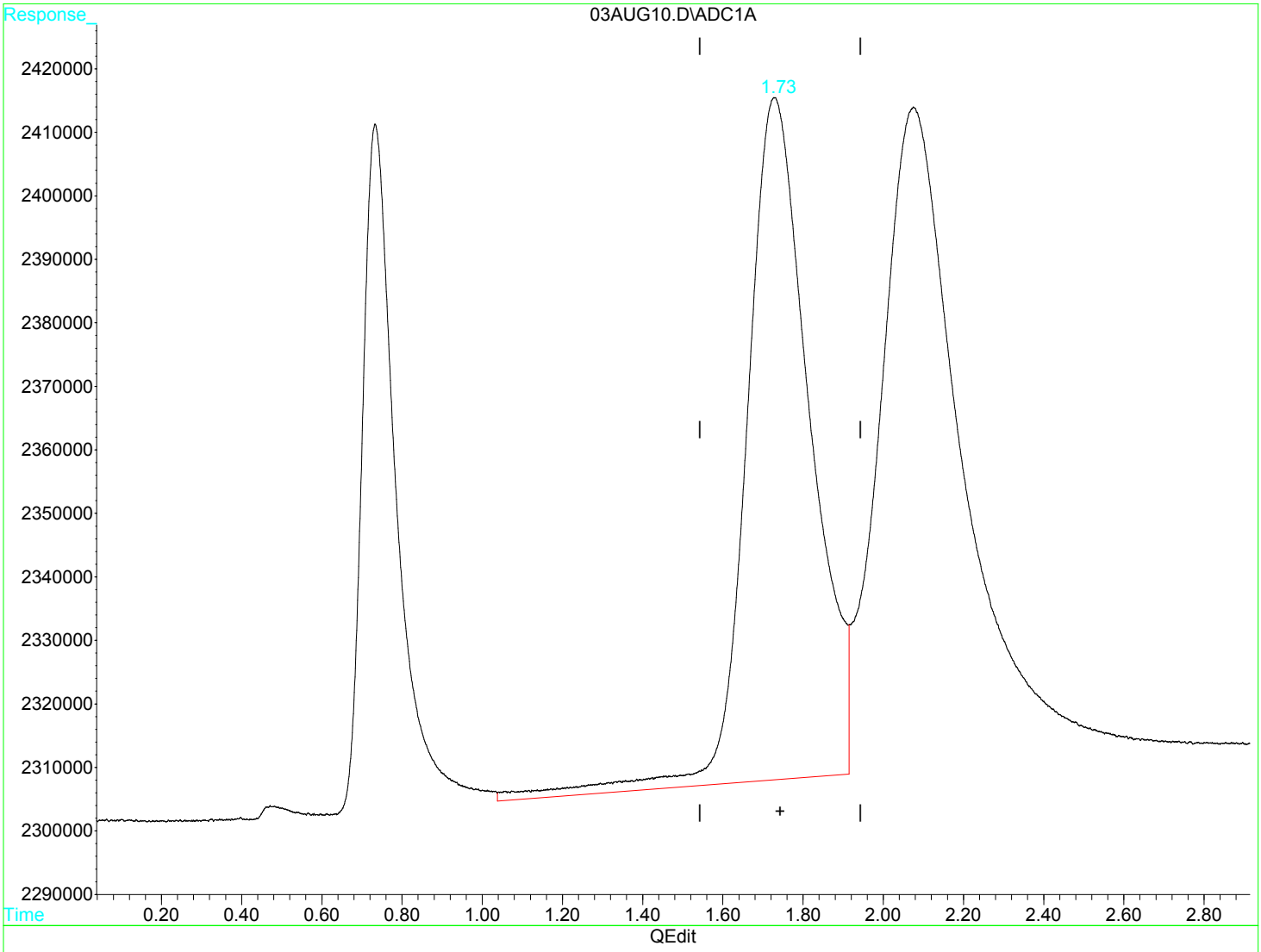
(+) = Expected Retention Time

03AUG10.D RSK175.M Thu Aug 03 14:00:24 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG10.D Vial: 10
Acq On : 3 Aug 2017 8:13 am Operator: JH2
Sample : 1713689-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 8:19 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.73min 29.626ug/L

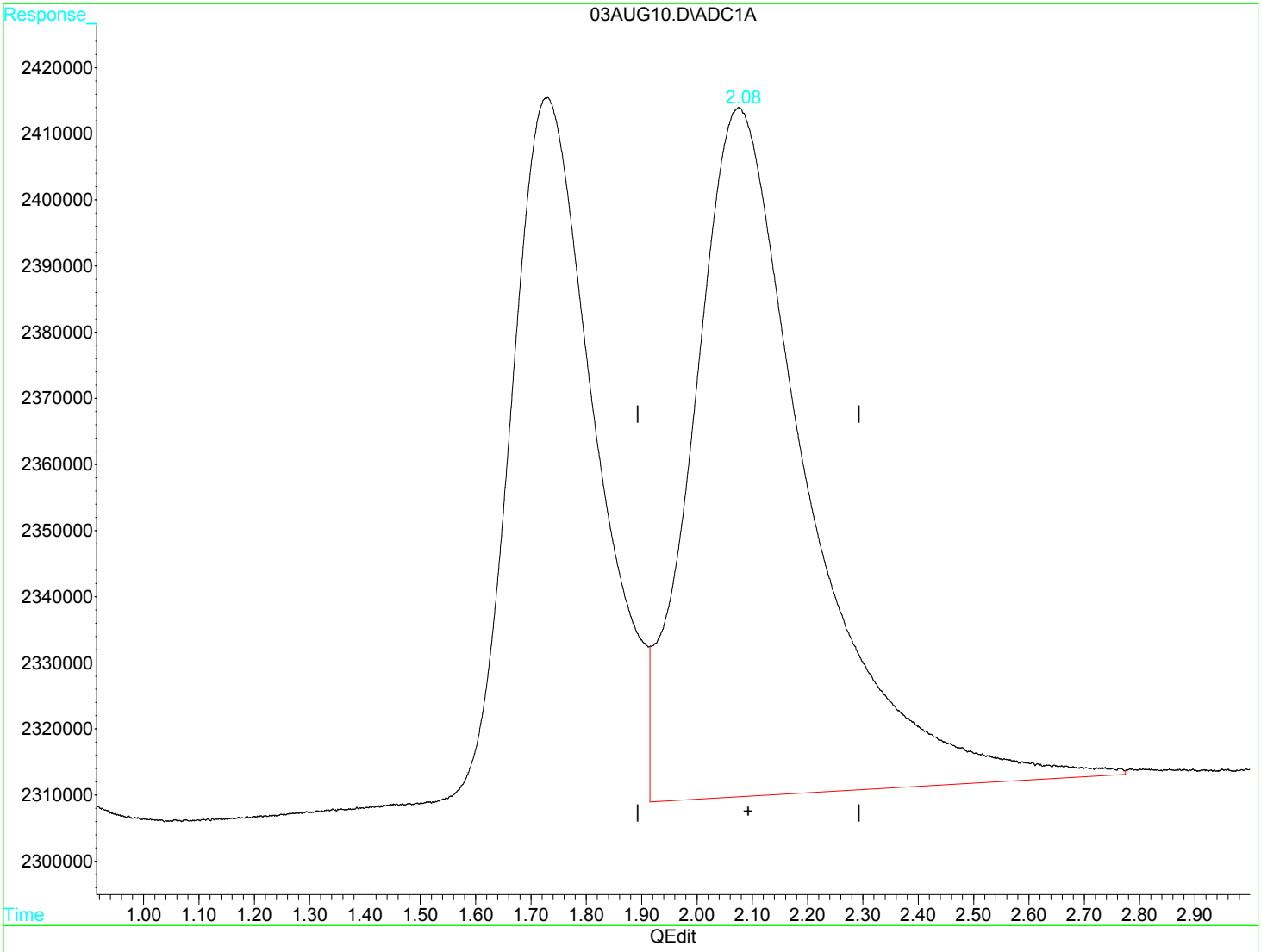
response 11923608

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG10.D Vial: 10
Acq On : 3 Aug 2017 8:13 am Operator: JH2
Sample : 1713689-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 8:19 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.08min 26.107ug/L

response 15165667

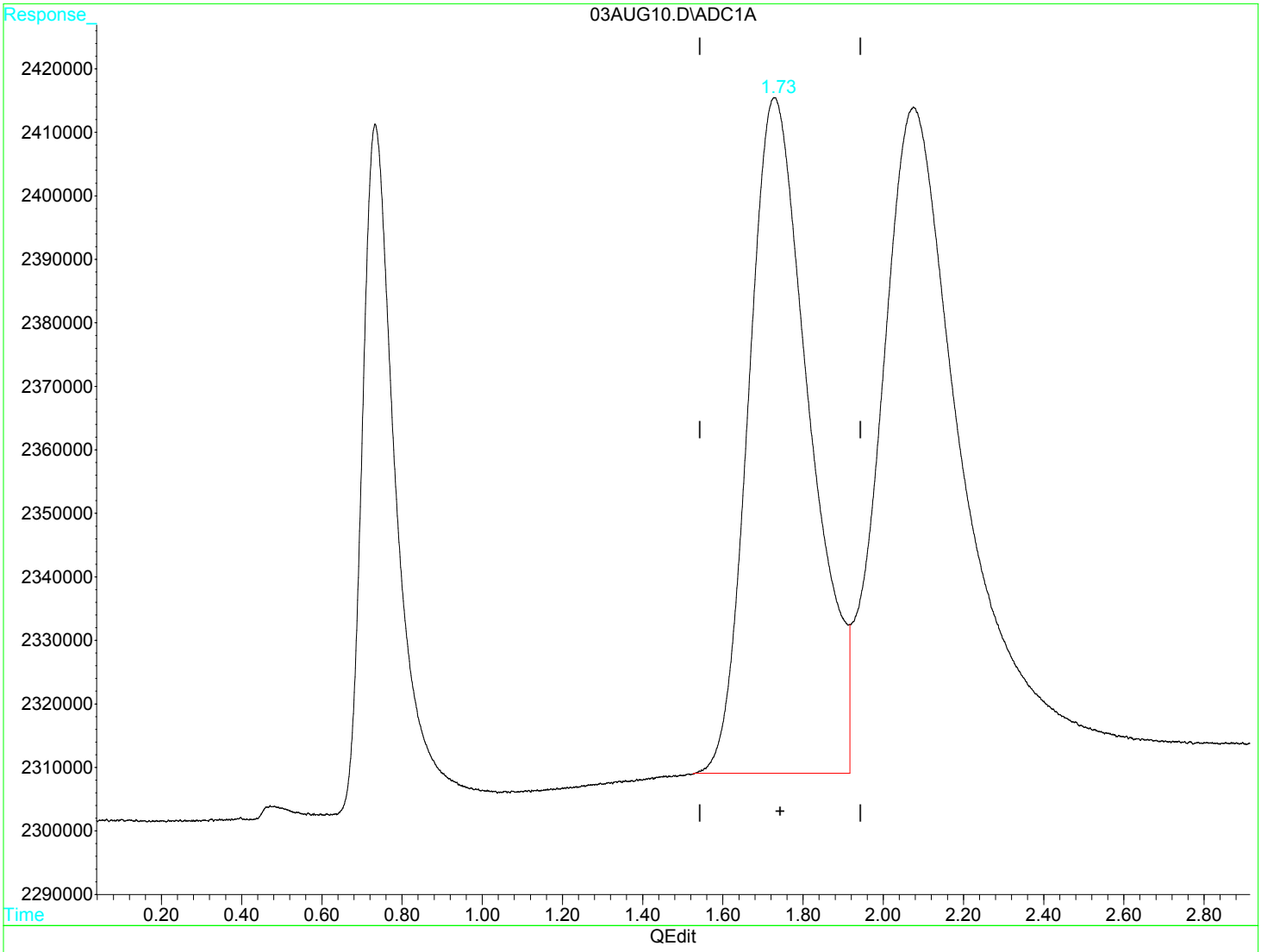
(+) = Expected Retention Time

03AUG10.D RSK175.M Thu Aug 03 14:00:44 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG10.D Vial: 10
Acq On : 3 Aug 2017 8:13 am Operator: JH2
Sample : 1713689-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 8:19 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.73min 27.999ug/L m

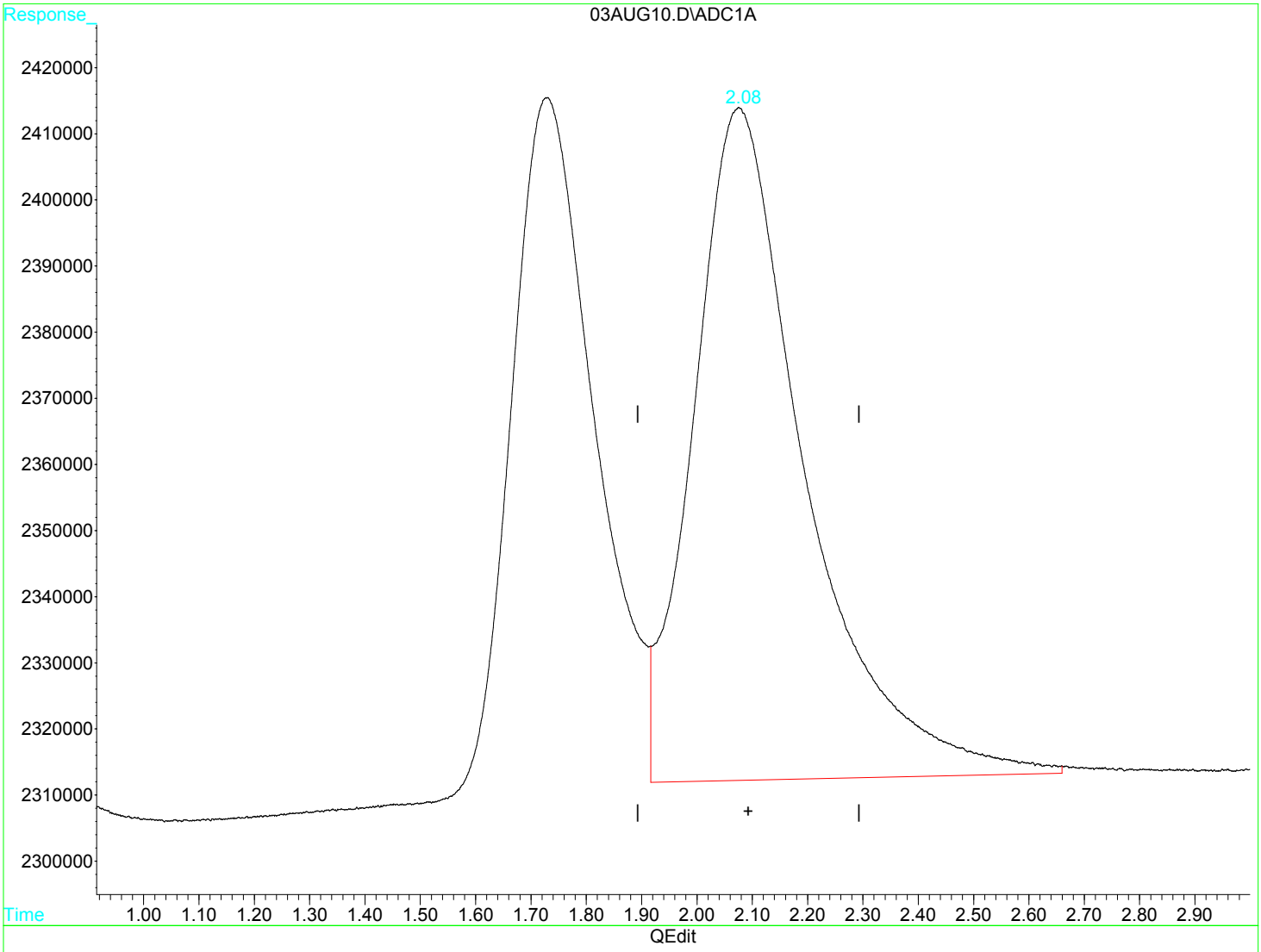
response 11269108

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG10.D Vial: 10
Acq On : 3 Aug 2017 8:13 am Operator: JH2
Sample : 1713689-CCV2 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 8:19 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.08min 24.472ug/L m

response 14216052

(+) = Expected Retention Time

03AUG10.D RSK175.M Thu Aug 03 14:00:52 2017 MSD1

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG22.D Vial: 22
Acq On : 3 Aug 2017 10:10 am Operator: JH2
Sample : 1713689-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:07 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Target Compounds					
1) m	Methane	0.74	6187302	10.2220	ug/L	m
2) m	Ethene	1.73	11109160	27.6019	ug/L	m
3) m	Ethane	2.08	14074752	24.2287	ug/L	m

(f)=RT Delta > 1/2 Window (m)=manual int

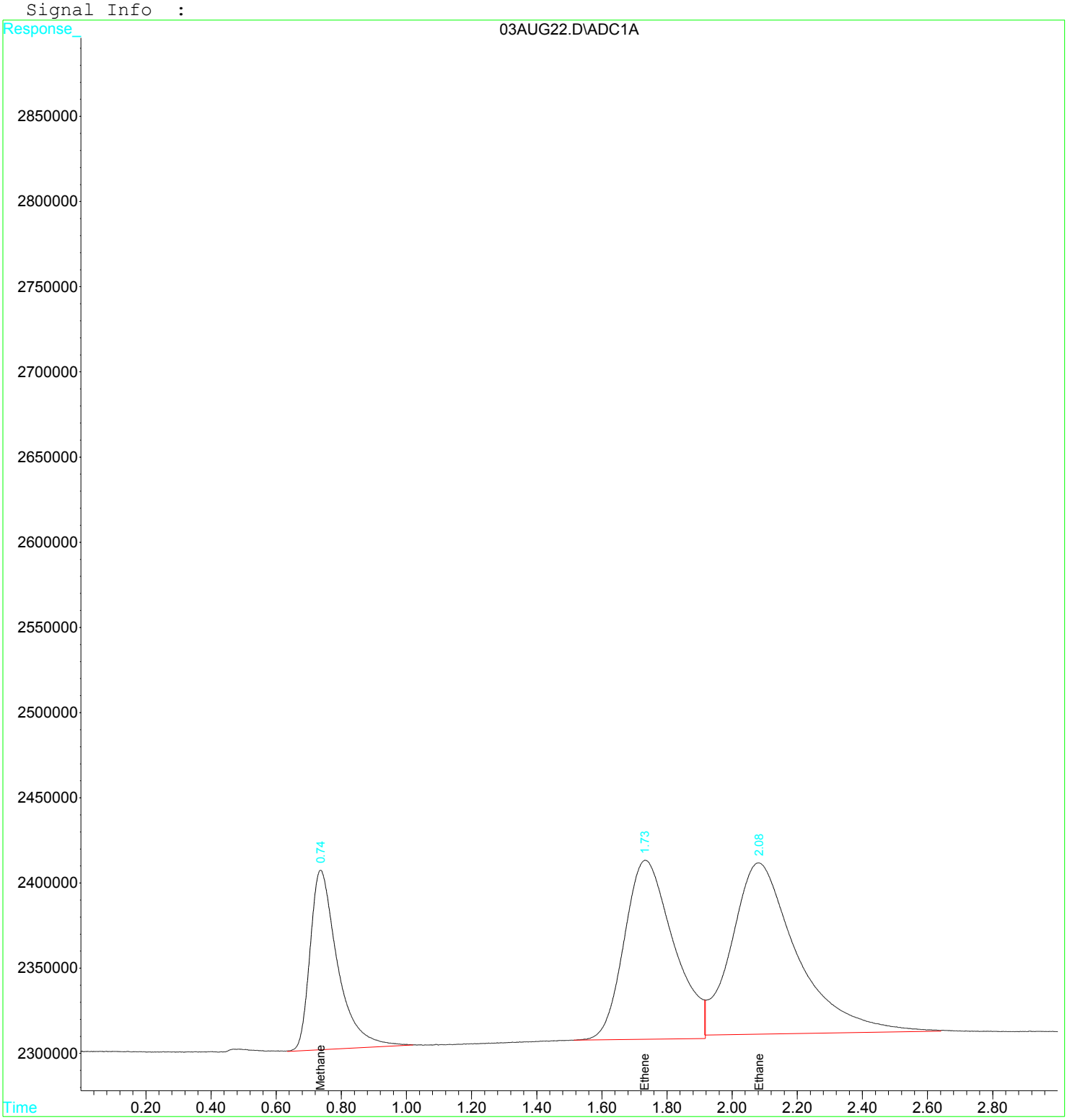
03AUG22.D RSK175.M Thu Aug 03 14:07:58 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG22.D Vial: 22
Acq On : 3 Aug 2017 10:10 am Operator: JH2
Sample : 1713689-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:07 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

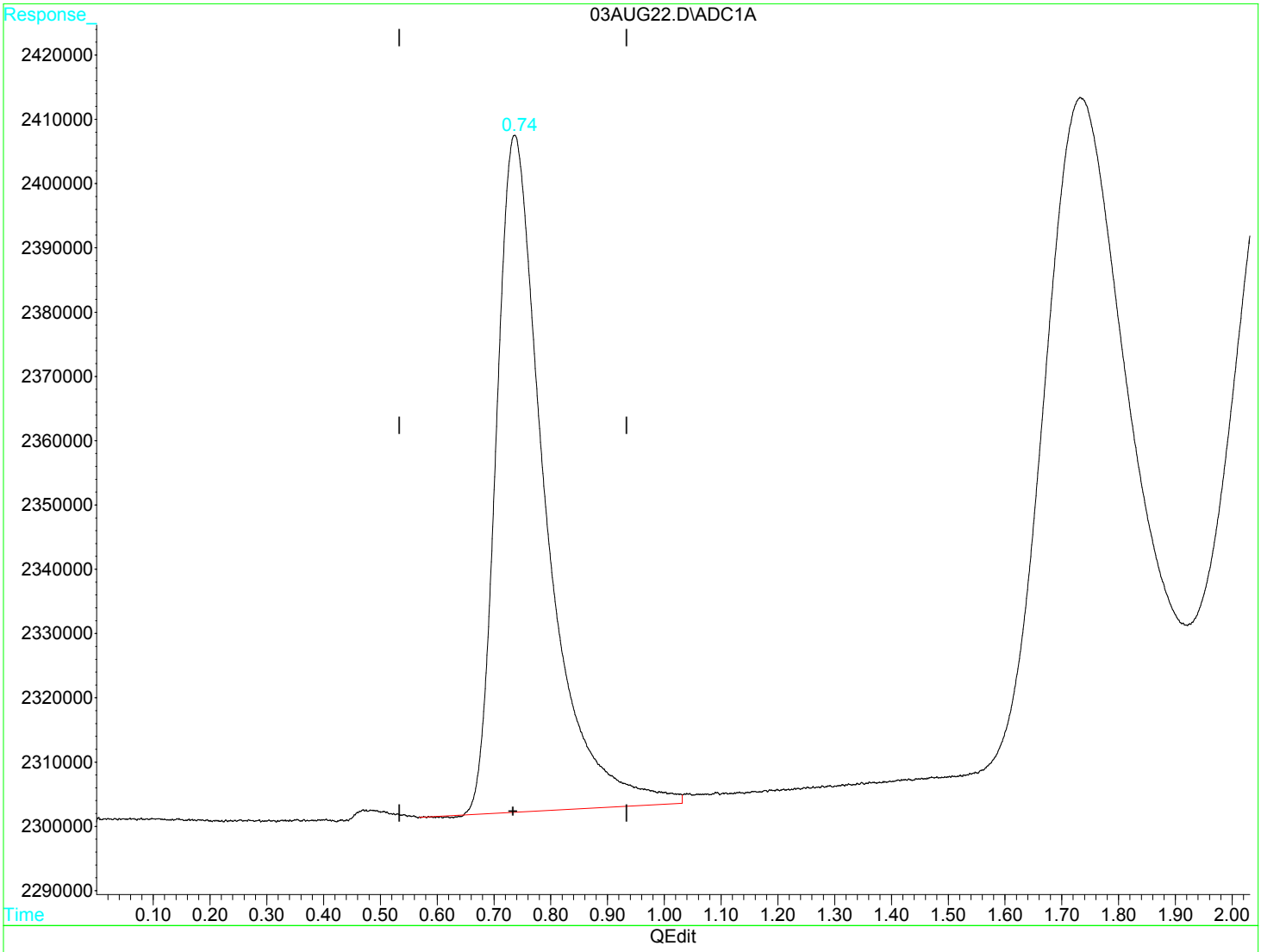
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG22.D Vial: 22
Acq On : 3 Aug 2017 10:10 am Operator: JH2
Sample : 1713689-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 10:13 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.74min 10.402ug/L

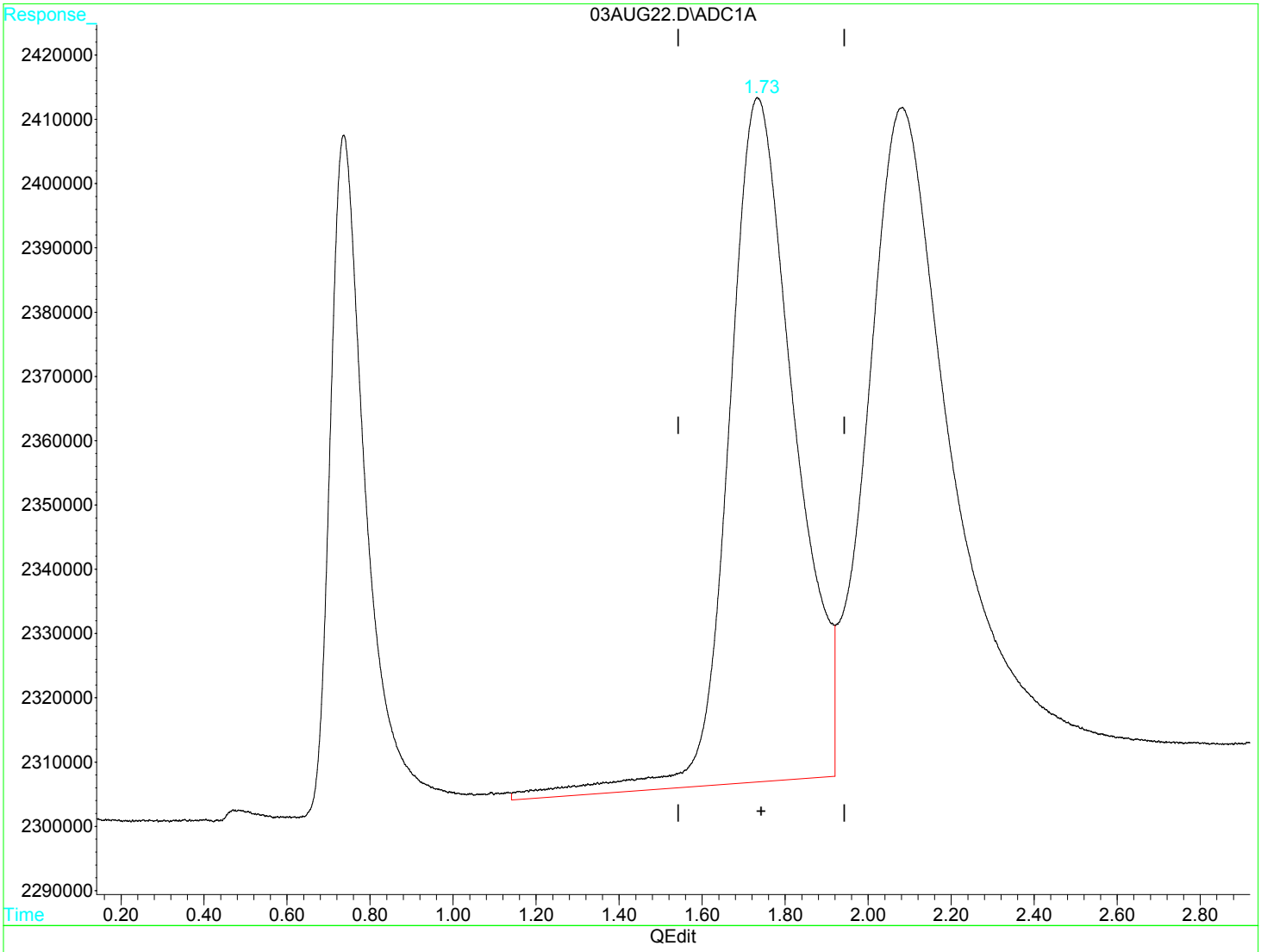
response 6296063

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG22.D Vial: 22
Acq On : 3 Aug 2017 10:10 am Operator: JH2
Sample : 1713689-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 10:13 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.73min 29.339ug/L

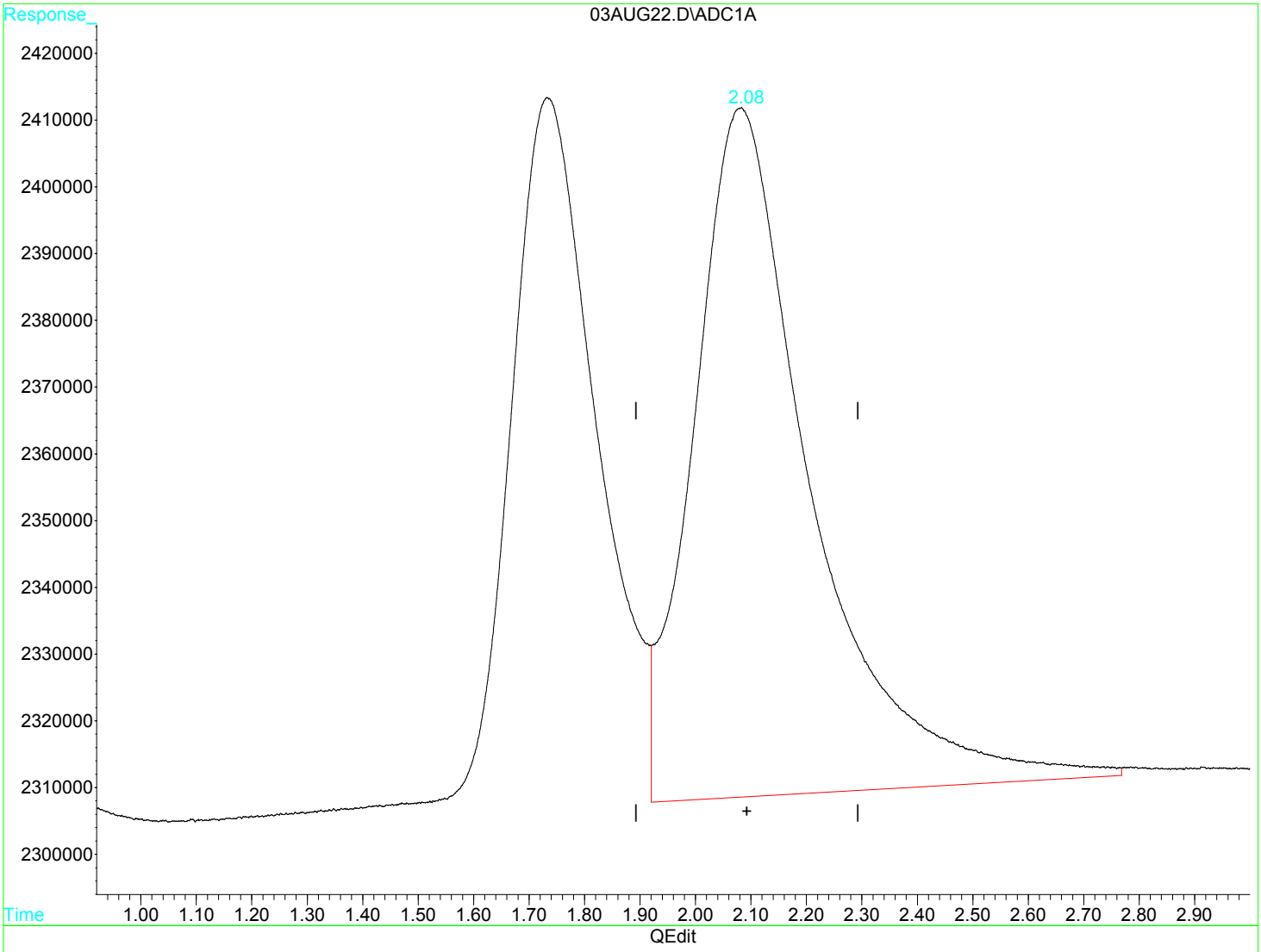
response 11808472

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG22.D Vial: 22
Acq On : 3 Aug 2017 10:10 am Operator: JH2
Sample : 1713689-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 10:13 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.08min 26.137ug/L

response 15183123

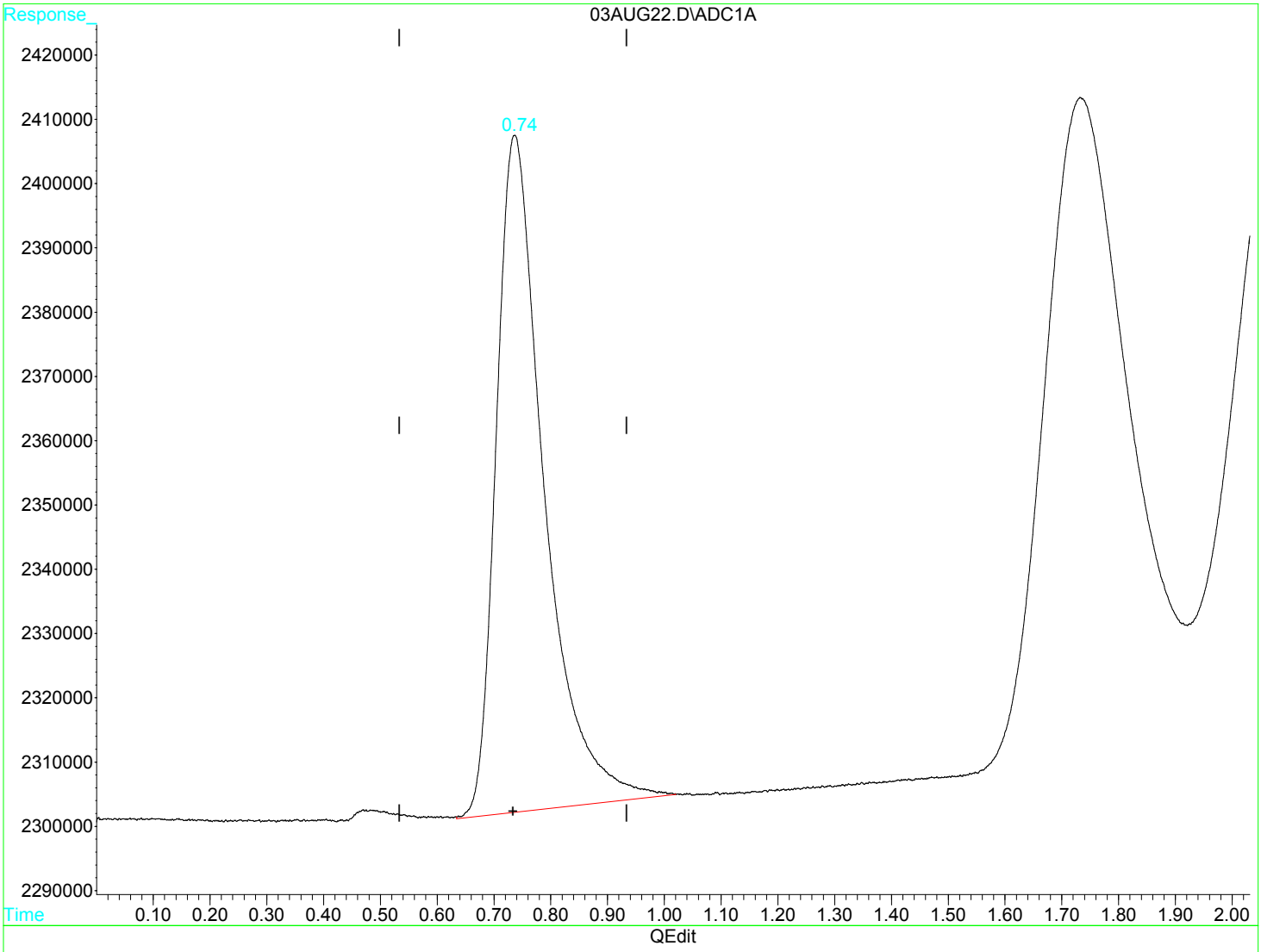
(+) = Expected Retention Time

03AUG22.D RSK175.M Thu Aug 03 14:07:41 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG22.D Vial: 22
Acq On : 3 Aug 2017 10:10 am Operator: JH2
Sample : 1713689-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 10:13 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.74min 10.222ug/L m

response 6187302

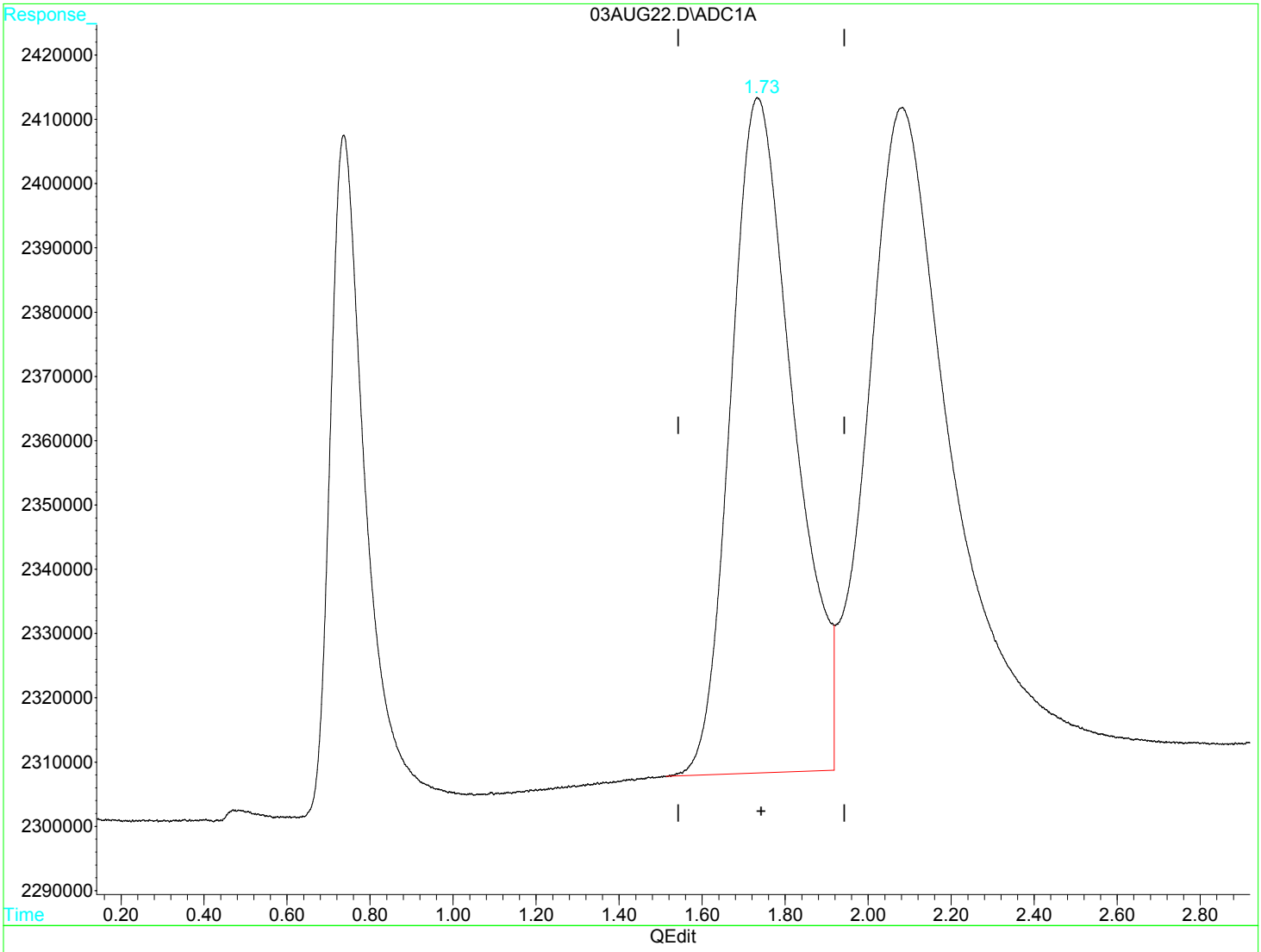
(+) = Expected Retention Time

03AUG22.D RSK175.M Thu Aug 03 14:07:24 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG22.D Vial: 22
Acq On : 3 Aug 2017 10:10 am Operator: JH2
Sample : 1713689-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 10:13 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.73min 27.602ug/L m

response 11109160

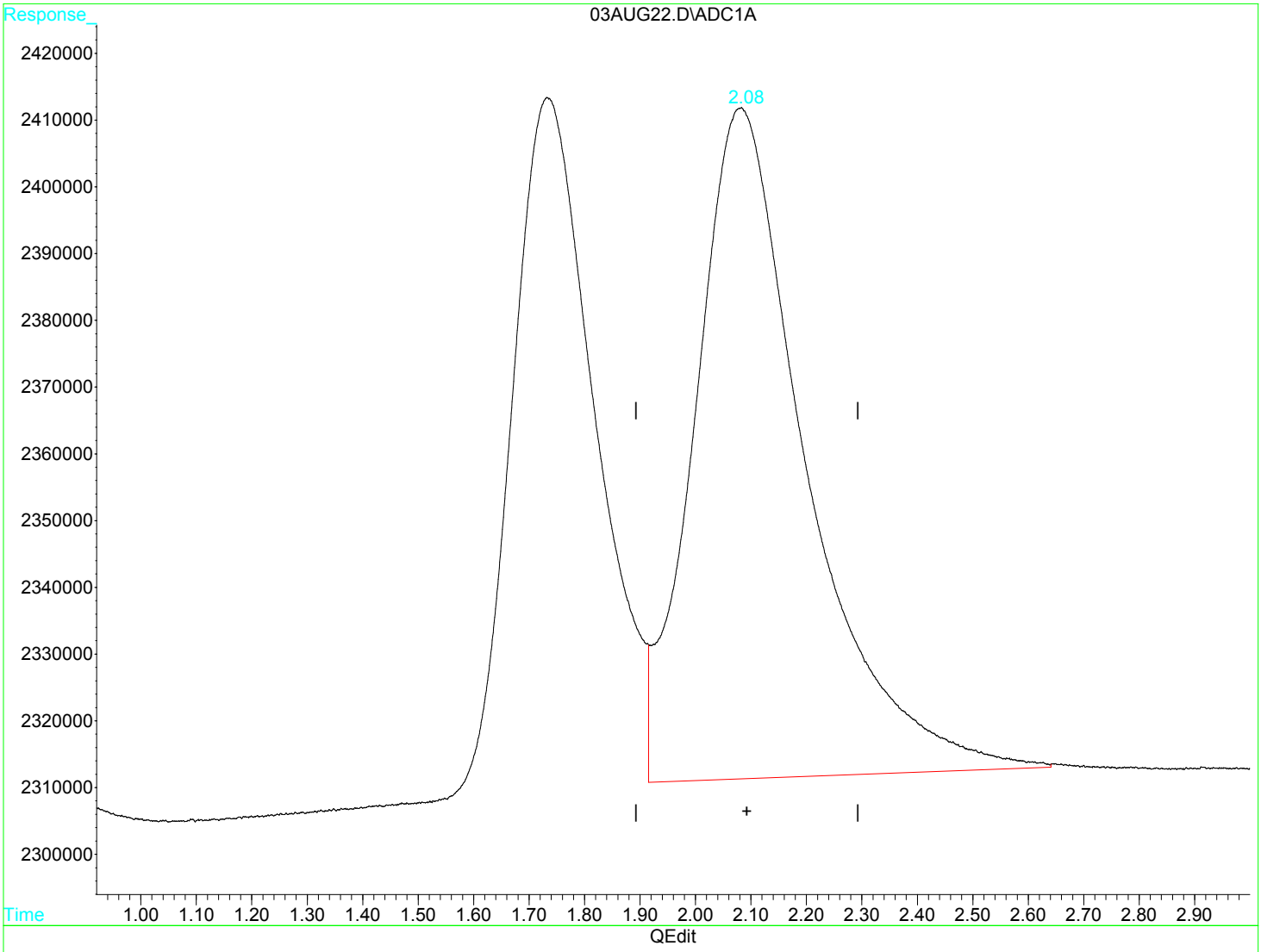
(+) = Expected Retention Time

03AUG22.D RSK175.M Thu Aug 03 14:07:36 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG22.D Vial: 22
Acq On : 3 Aug 2017 10:10 am Operator: JH2
Sample : 1713689-CCV3 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 10:13 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.08min 24.229ug/L m

response 14074752

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG34.D Vial: 34
Acq On : 3 Aug 2017 12:08 pm Operator: JH2
Sample : 1713689-CCV4 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 12:11 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units
	Target Compounds				
1) m	Methane	0.73	6512516	10.7593	ug/L
2) m	Ethene	1.72	11476867	28.5156	ug/L
3) m	Ethane	2.07	14160767	24.3768	ug/L

(f)=RT Delta > 1/2 Window (m)=manual int

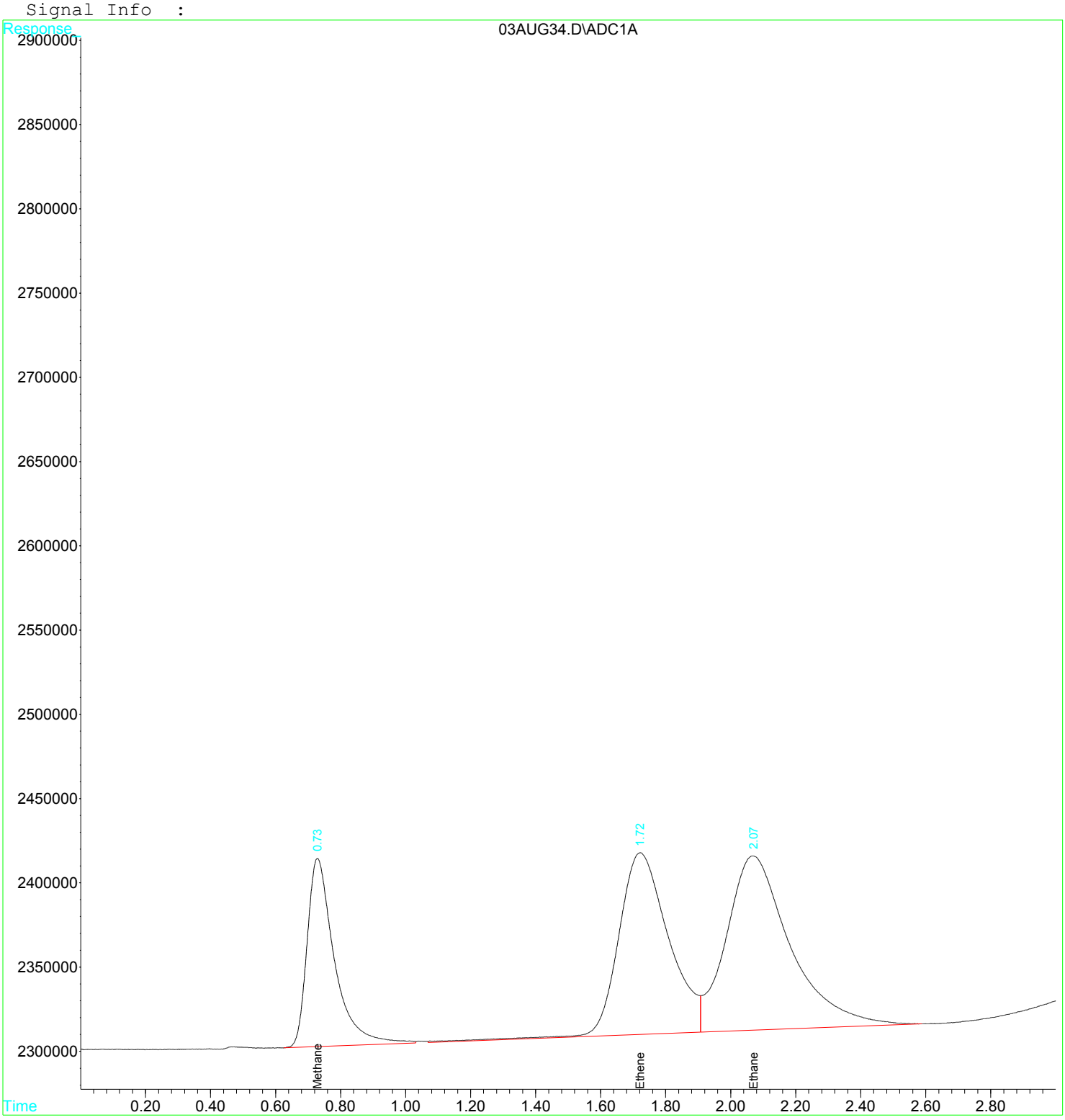
03AUG34.D RSK175.M Thu Aug 03 14:14:20 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG34.D Vial: 34
Acq On : 3 Aug 2017 12:08 pm Operator: JH2
Sample : 1713689-CCV4 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 12:11 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

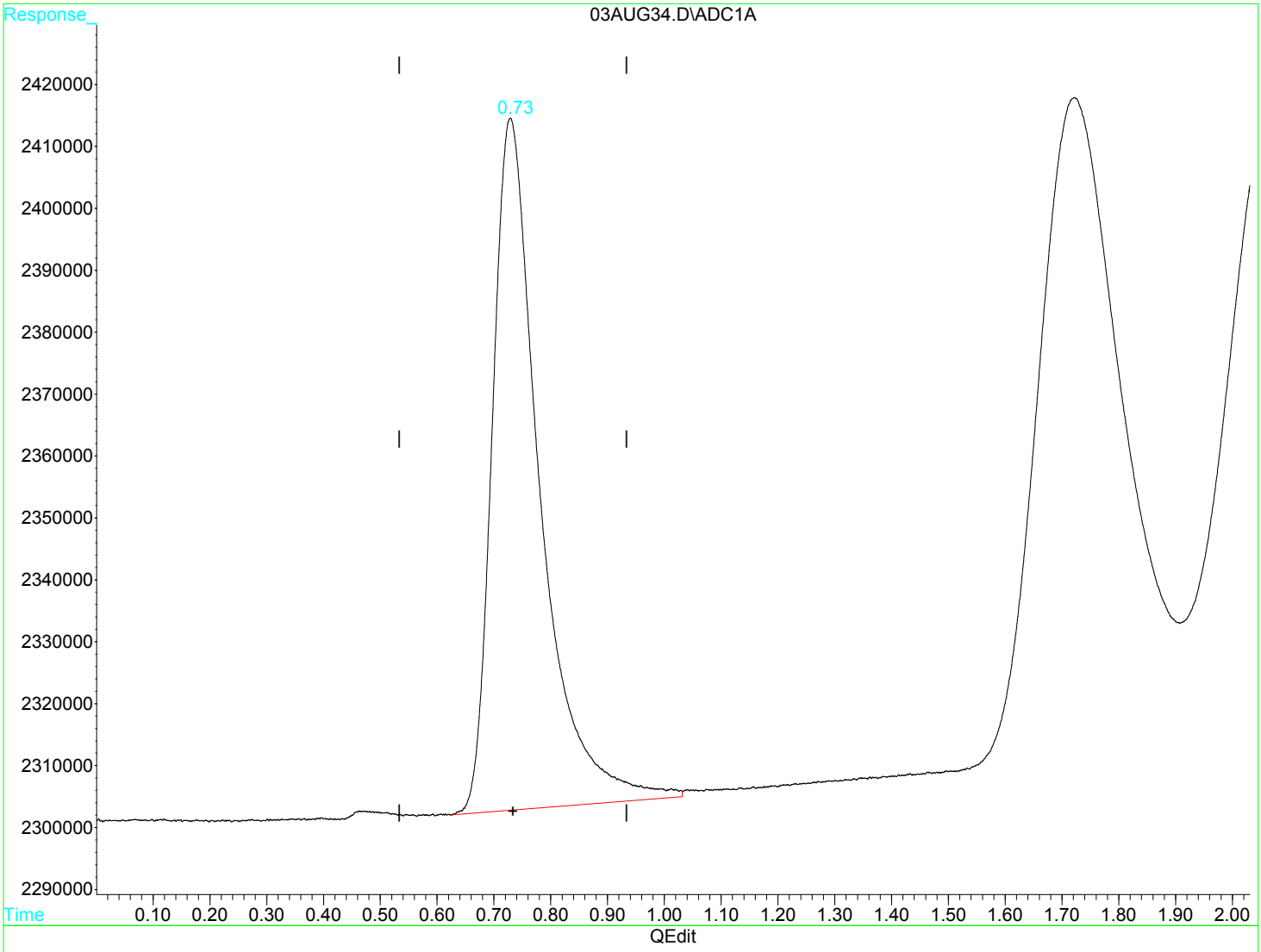
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG34.D Vial: 34
Acq On : 3 Aug 2017 12:08 pm Operator: JH2
Sample : 1713689-CCV4 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 12:11 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 10.759ug/L

response 6512516

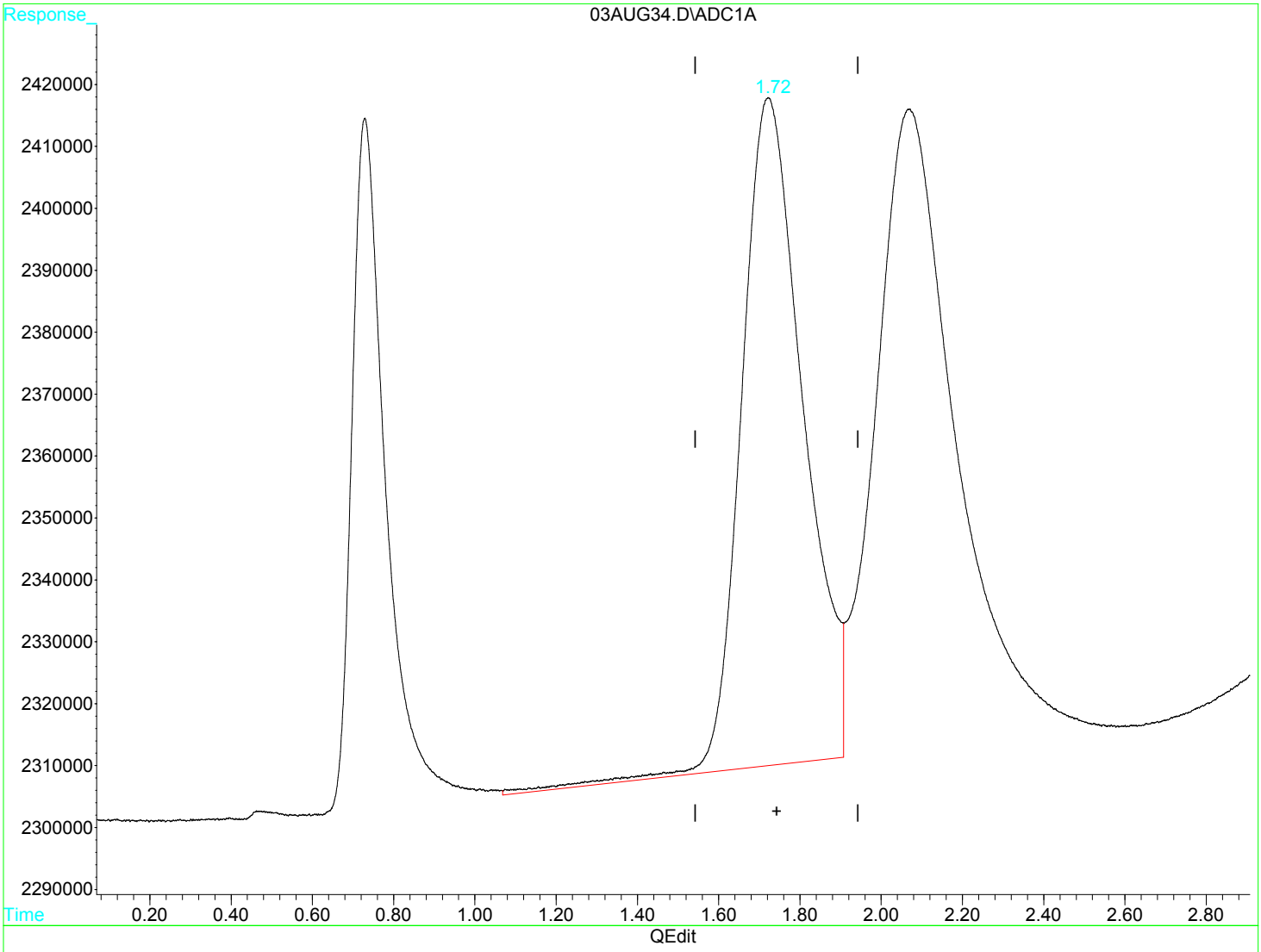
(+) = Expected Retention Time

03AUG34.D RSK175.M Thu Aug 03 14:13:59 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG34.D Vial: 34
Acq On : 3 Aug 2017 12:08 pm Operator: JH2
Sample : 1713689-CCV4 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 12:11 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.72min 28.516ug/L

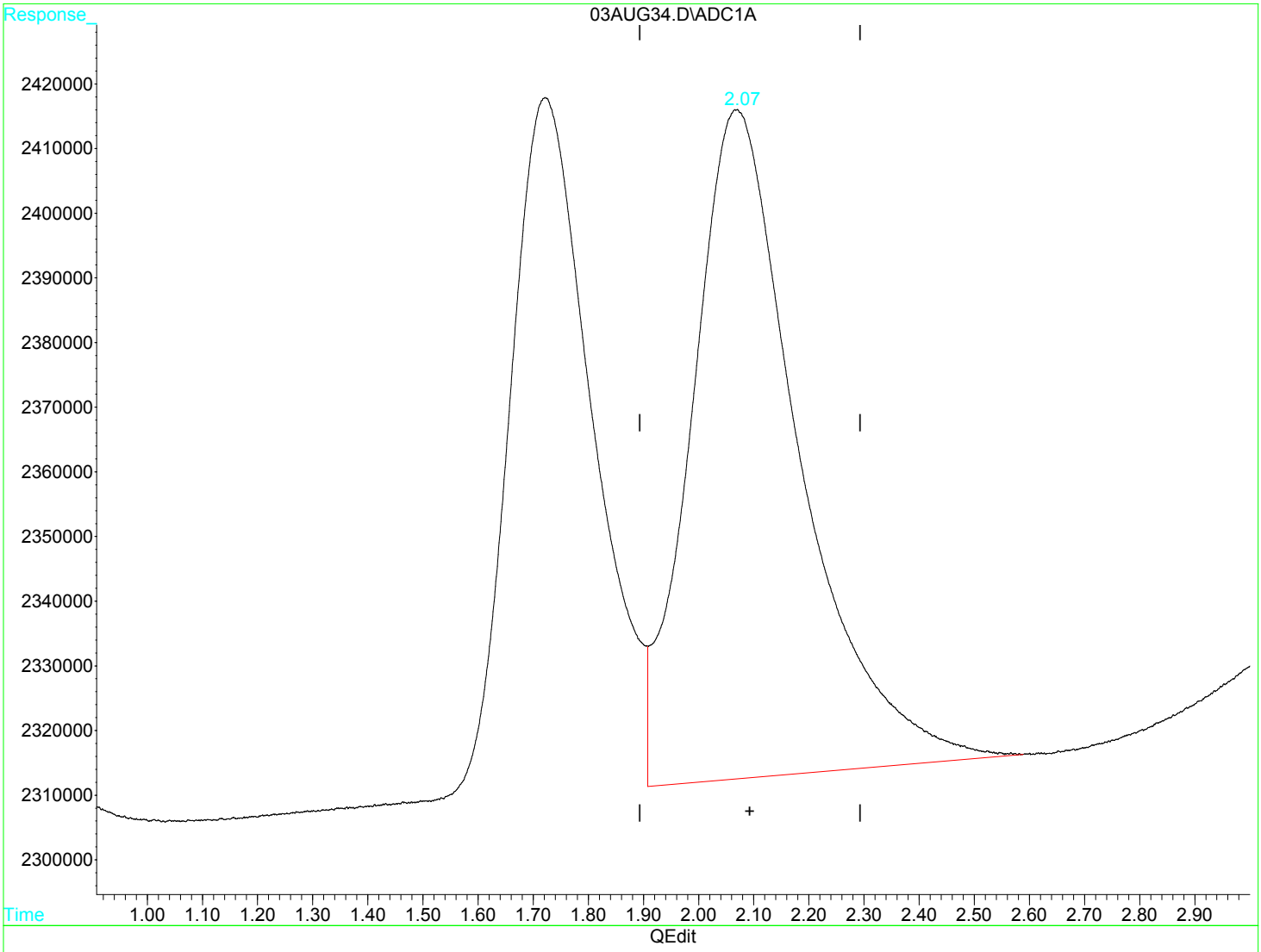
response 11476867

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG34.D Vial: 34
Acq On : 3 Aug 2017 12:08 pm Operator: JH2
Sample : 1713689-CCV4 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 12:11 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.07min 24.377ug/L

response 14160767

(+) = Expected Retention Time

03AUG34.D RSK175.M Thu Aug 03 14:14:12 2017 MSD1

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG38.D Vial: 38
Acq On : 3 Aug 2017 12:57 pm Operator: JH2
Sample : 1713689-CCV5 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:17 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1) m	Methane	0.73	6189299	10.2253 ug/L m
2) m	Ethene	1.73	11051121	27.4577 ug/L
3) m	Ethane	2.07	14194959	24.4356 ug/L m

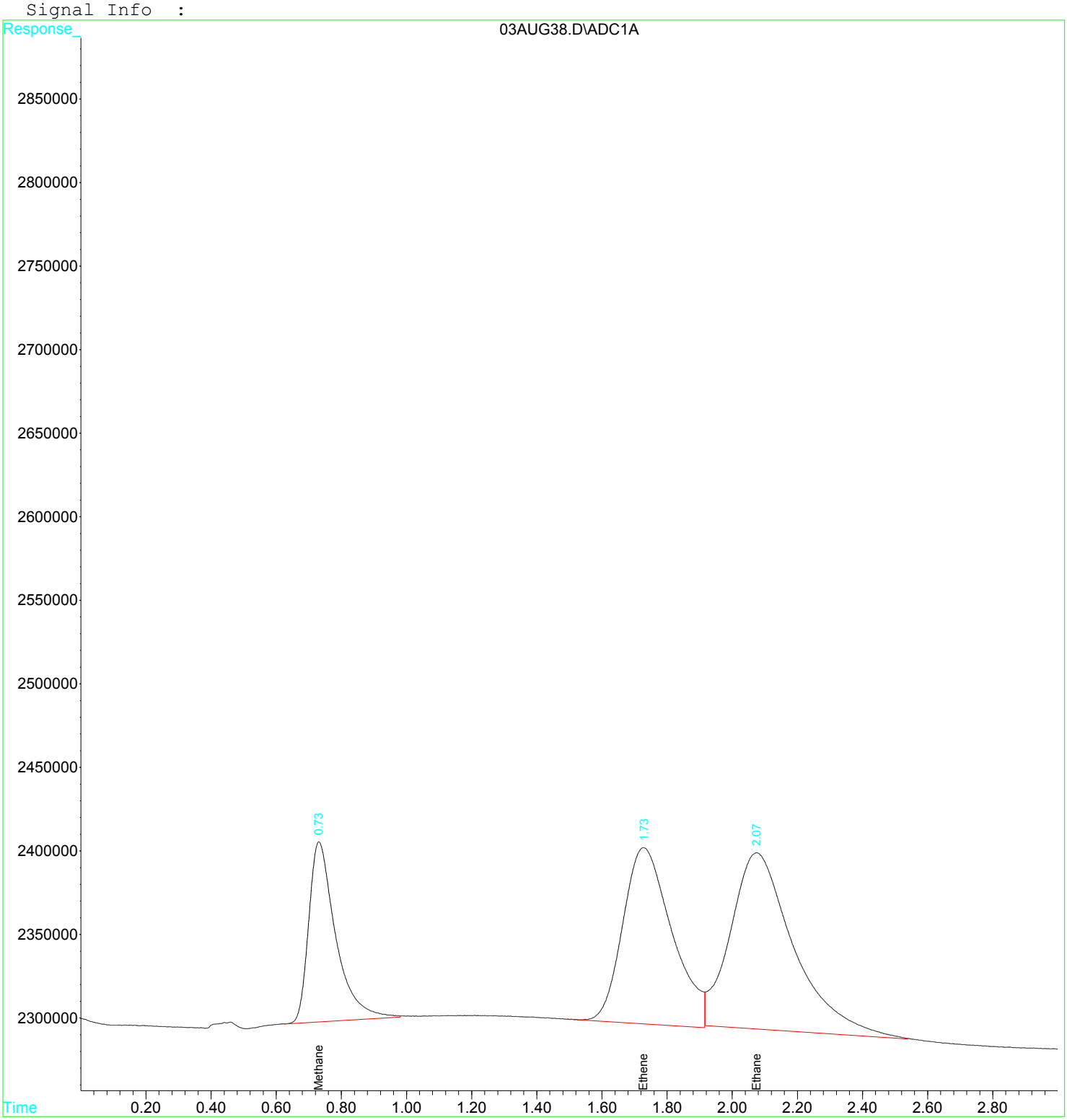
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG38.D Vial: 38
Acq On : 3 Aug 2017 12:57 pm Operator: JH2
Sample : 1713689-CCV5 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:17 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

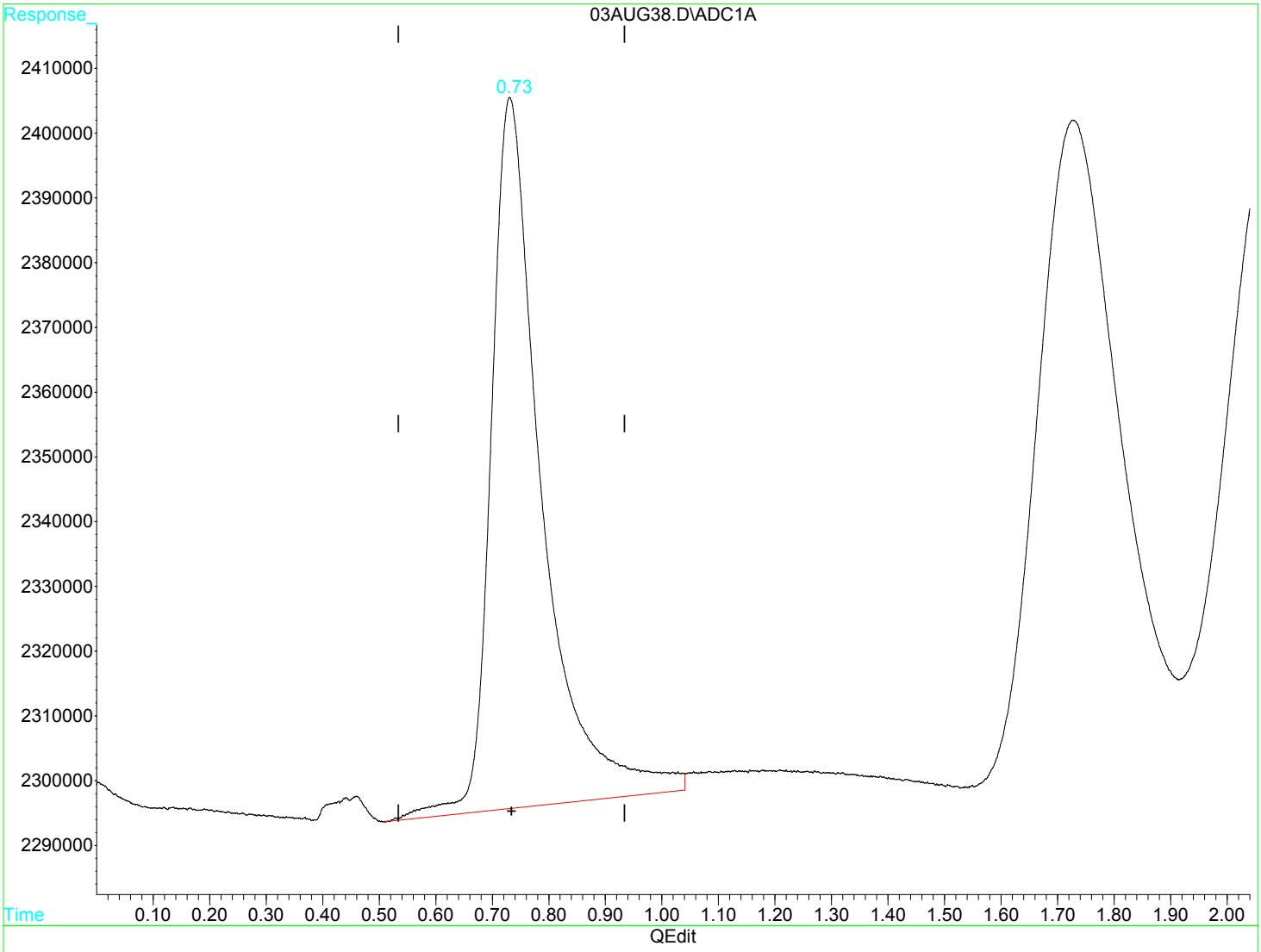
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG38.D Vial: 38
Acq On : 3 Aug 2017 12:57 pm Operator: JH2
Sample : 1713689-CCV5 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:00 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 11.289ug/L

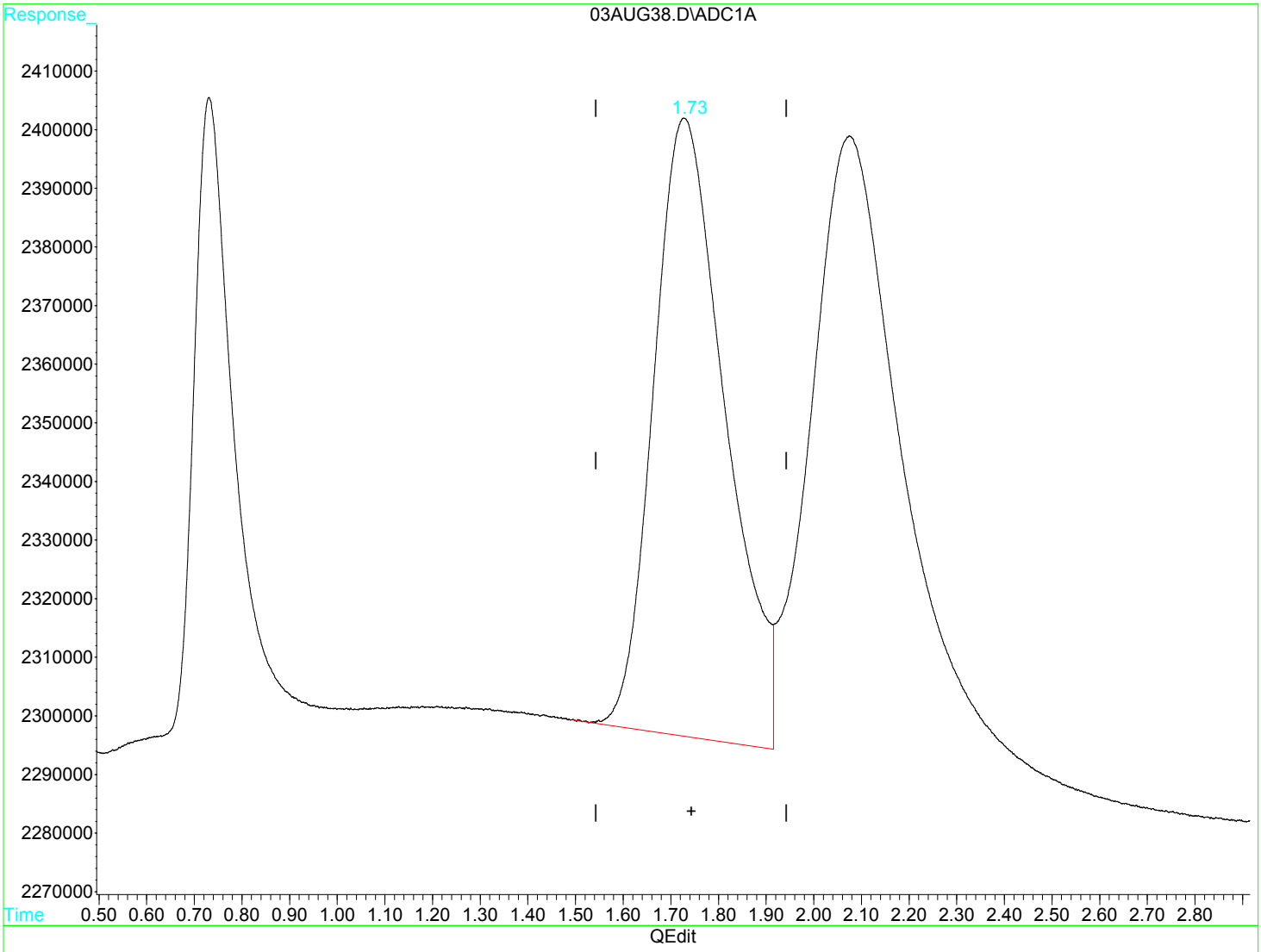
response 6832936

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG38.D Vial: 38
Acq On : 3 Aug 2017 12:57 pm Operator: JH2
Sample : 1713689-CCV5 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:00 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.73min 27.458ug/L

response 11051121

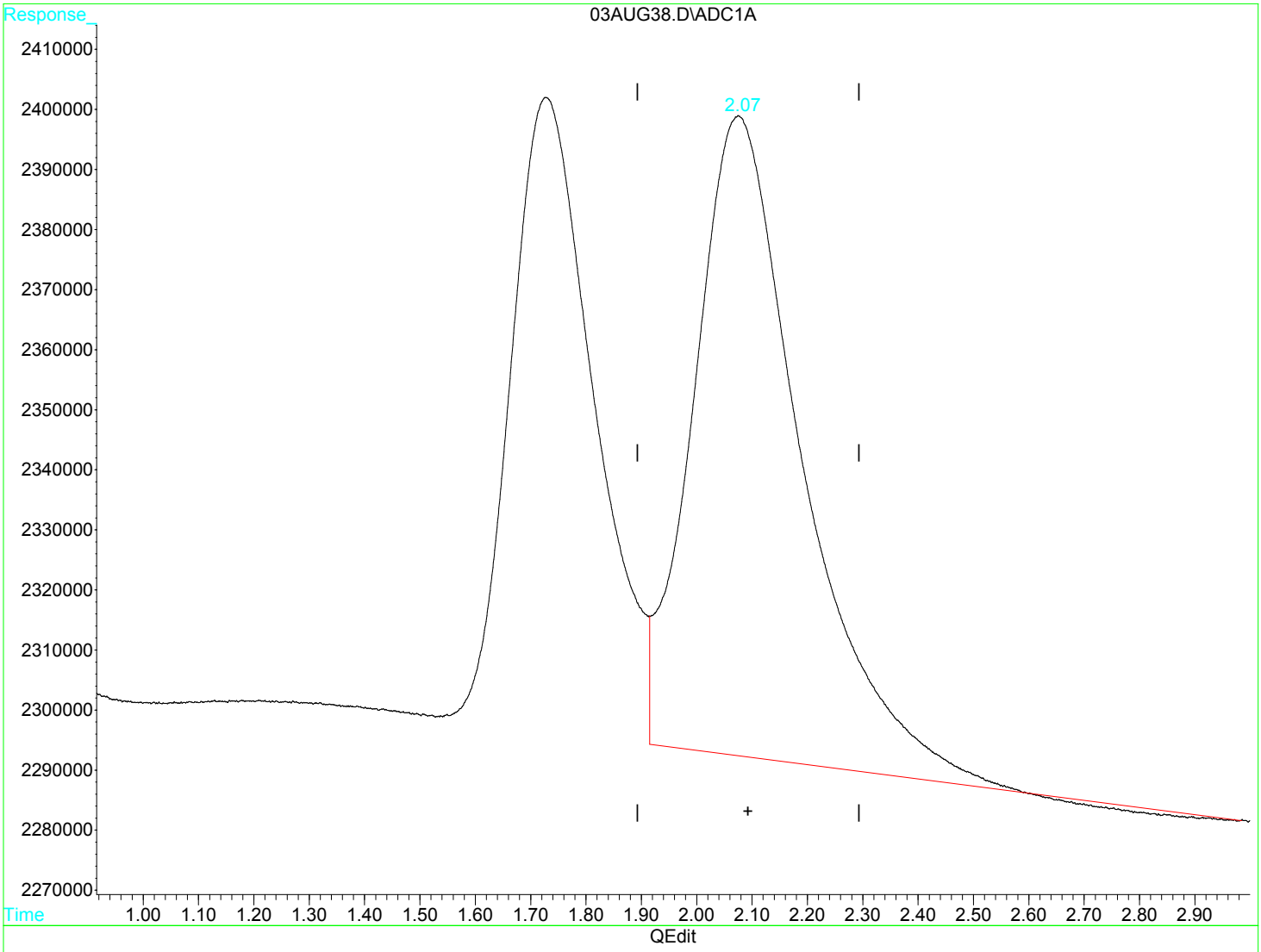
(+) = Expected Retention Time

03AUG38.D RSK175.M Thu Aug 03 14:16:40 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG38.D Vial: 38
Acq On : 3 Aug 2017 12:57 pm Operator: JH2
Sample : 1713689-CCV5 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:00 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.08min 24.901ug/L

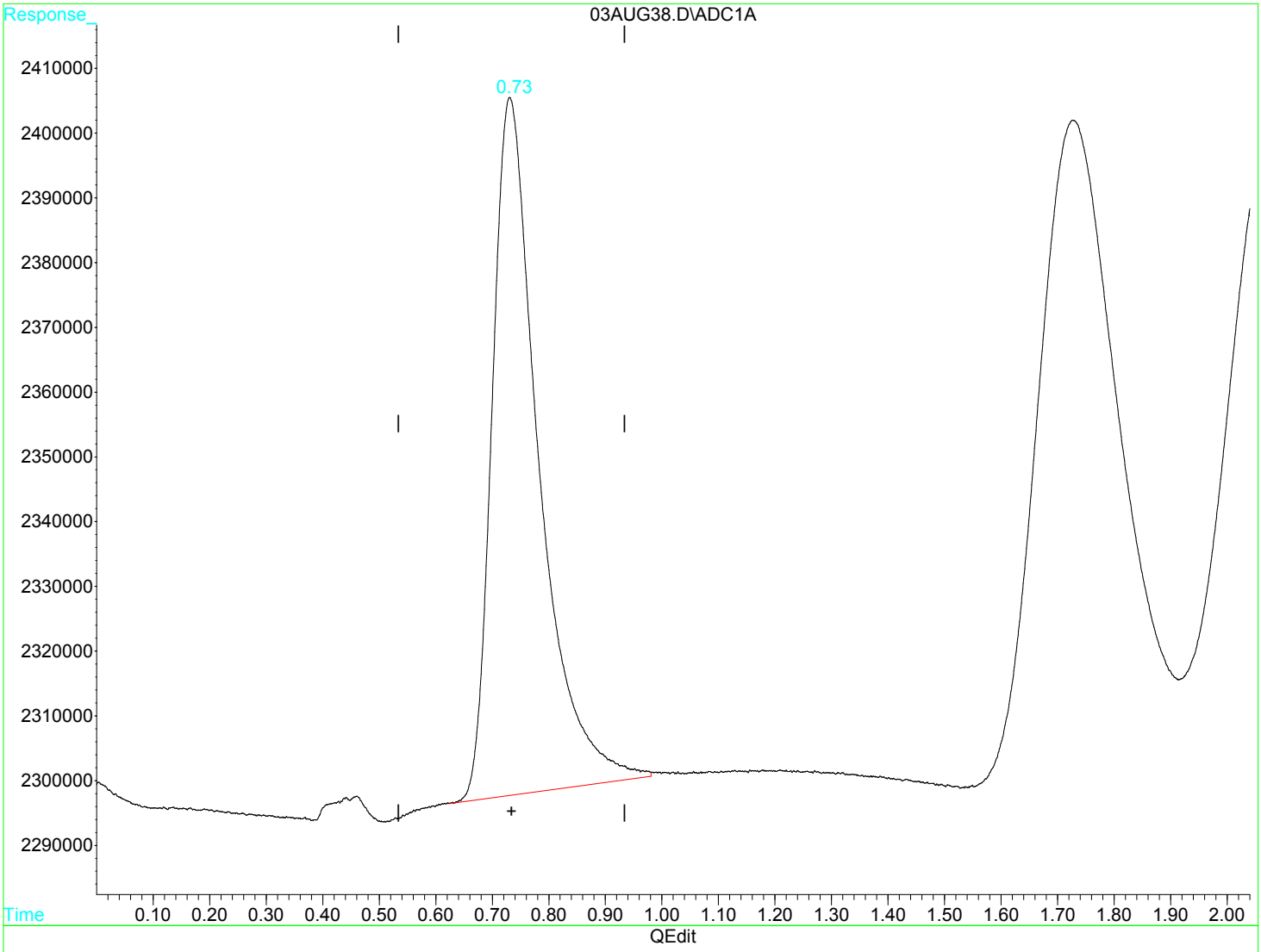
response 14465077

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG38.D Vial: 38
Acq On : 3 Aug 2017 12:57 pm Operator: JH2
Sample : 1713689-CCV5 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:00 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.73min 10.225ug/L m

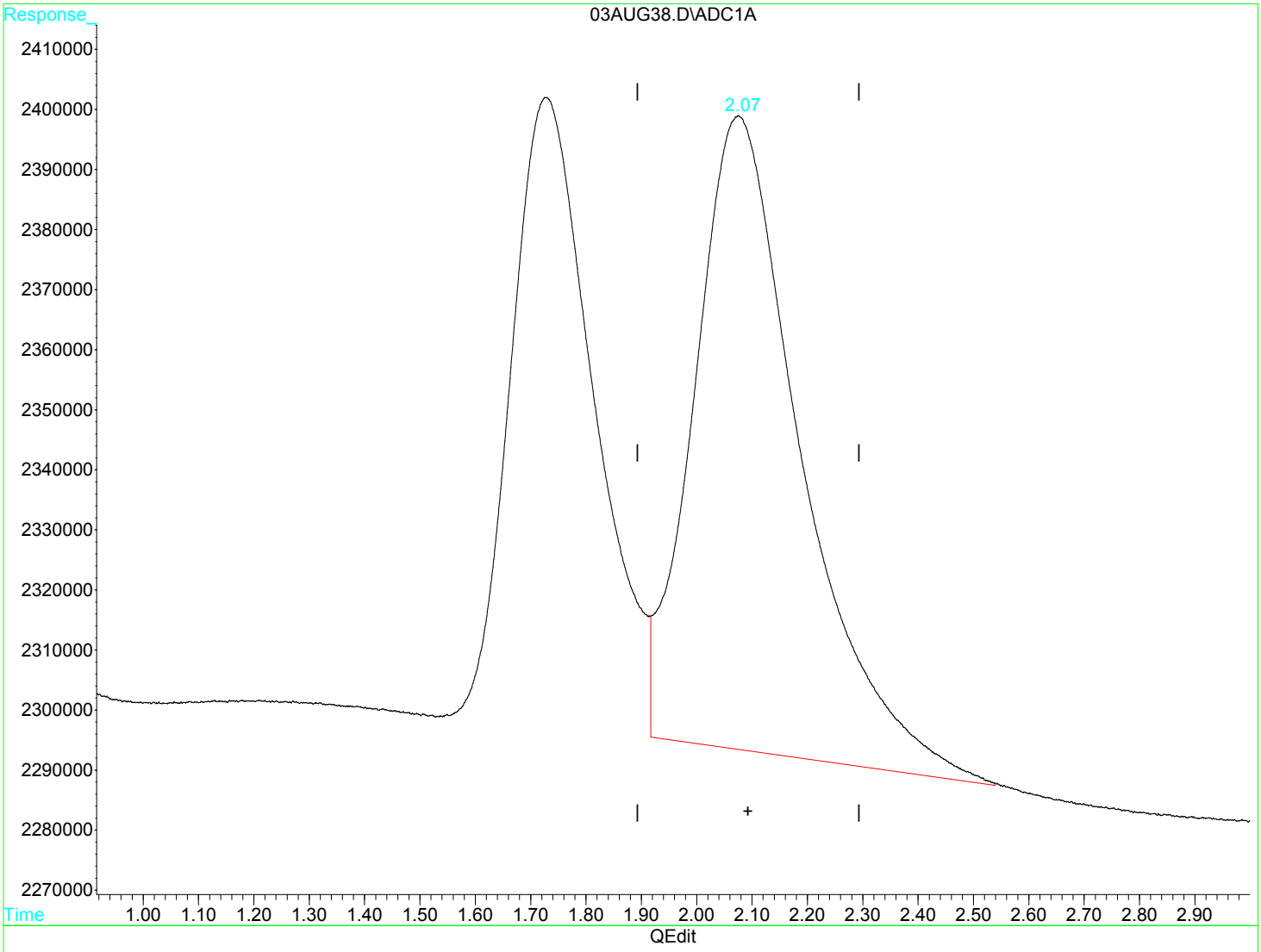
response 6189299

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG38.D Vial: 38
Acq On : 3 Aug 2017 12:57 pm Operator: JH2
Sample : 1713689-CCV5 Inst : GC-V1
Misc : 1 RSK-175 250uL VOC-17-1061 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:00 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.07min 24.436ug/L m

response 14194959

(+) = Expected Retention Time

Raw Data - CCB

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG03.D Vial: 3
Acq On : 3 Aug 2017 7:38 am Operator: JH2
Sample : 1713689-CCB1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:54 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) m Methane	0.00	0	N.D.	ug/L d
2) m Ethene	0.00	0	N.D.	ug/L d
3) m Ethane	0.00	0	N.D.	ug/L d

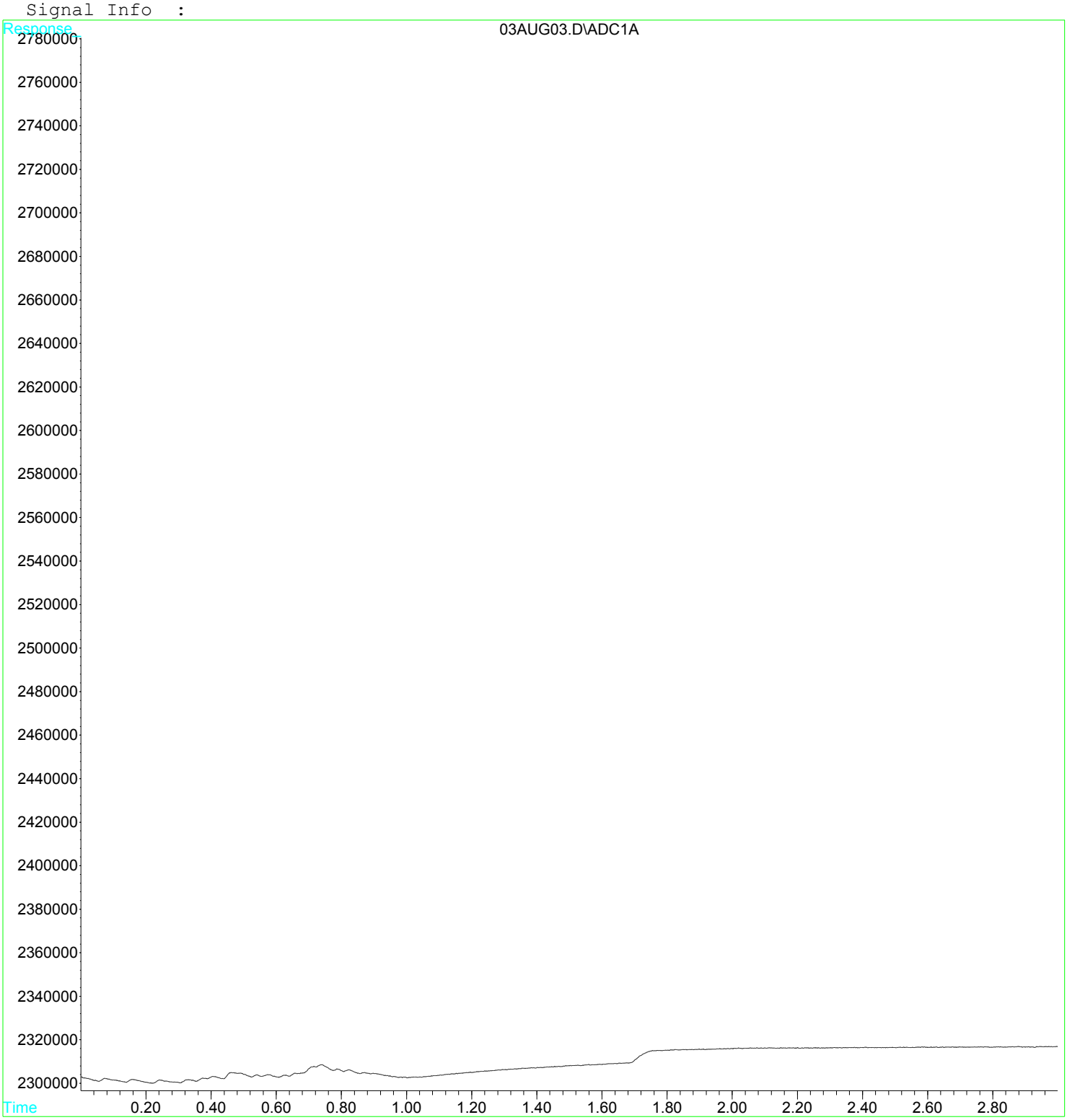
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG03.D Vial: 3
Acq On : 3 Aug 2017 7:38 am Operator: JH2
Sample : 1713689-CCB1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:54 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG11.D Vial: 11
Acq On : 3 Aug 2017 8:21 am Operator: JH2
Sample : 1713689-CCB2 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:01 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) m Methane	0.00	0	N.D.	ug/L d
2) m Ethene	0.00	0	N.D.	ug/L d
3) m Ethane	0.00	0	N.D.	ug/L d

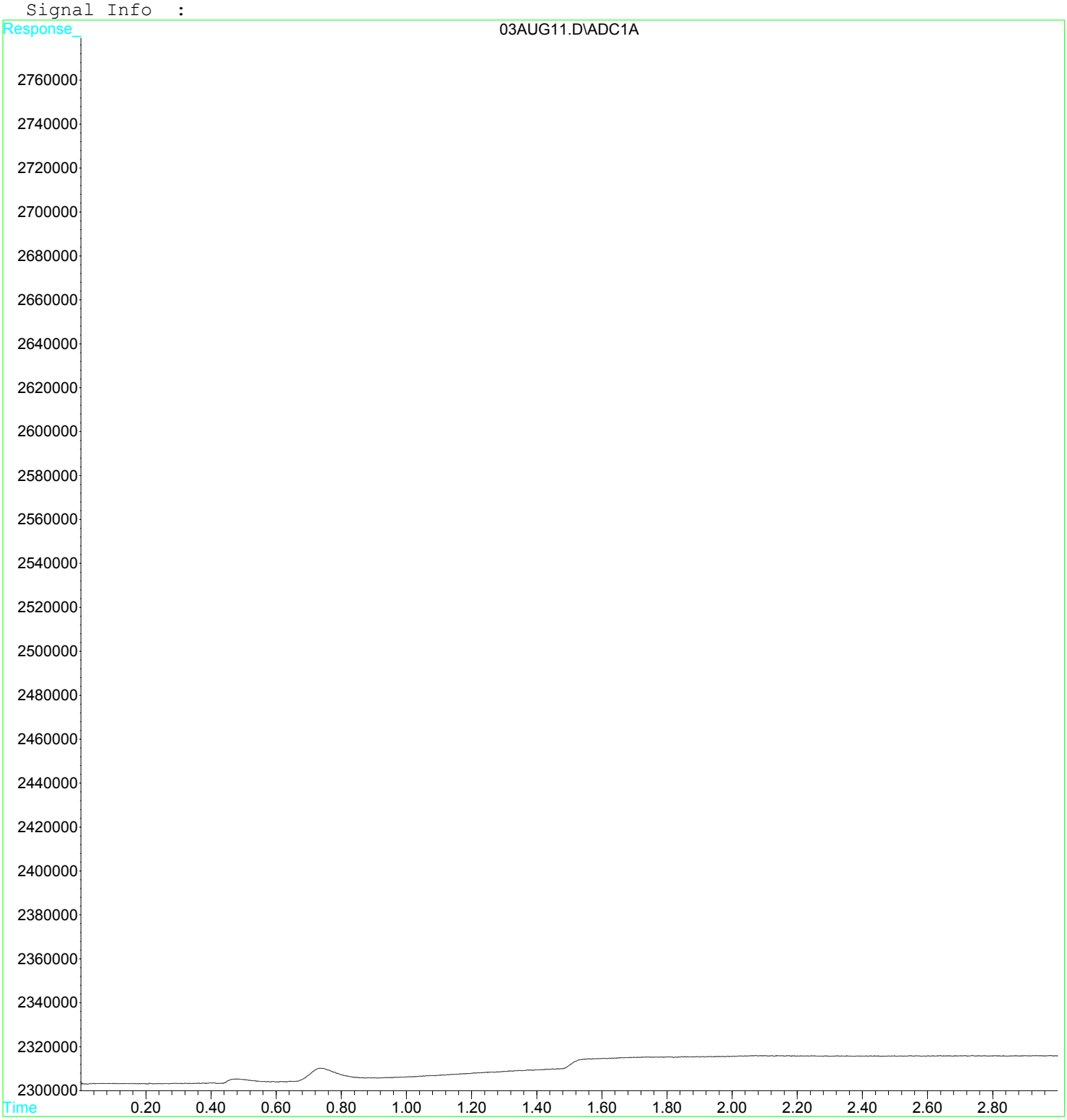
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG11.D Vial: 11
Acq On : 3 Aug 2017 8:21 am Operator: JH2
Sample : 1713689-CCB2 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:01 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG23.D Vial: 23
Acq On : 3 Aug 2017 10:17 am Operator: JH2
Sample : 1713689-CCB3 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:08 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) m Methane	0.00	0	N.D.	ug/L d
2) m Ethene	0.00	0	N.D.	ug/L d
3) m Ethane	0.00	0	N.D.	ug/L d

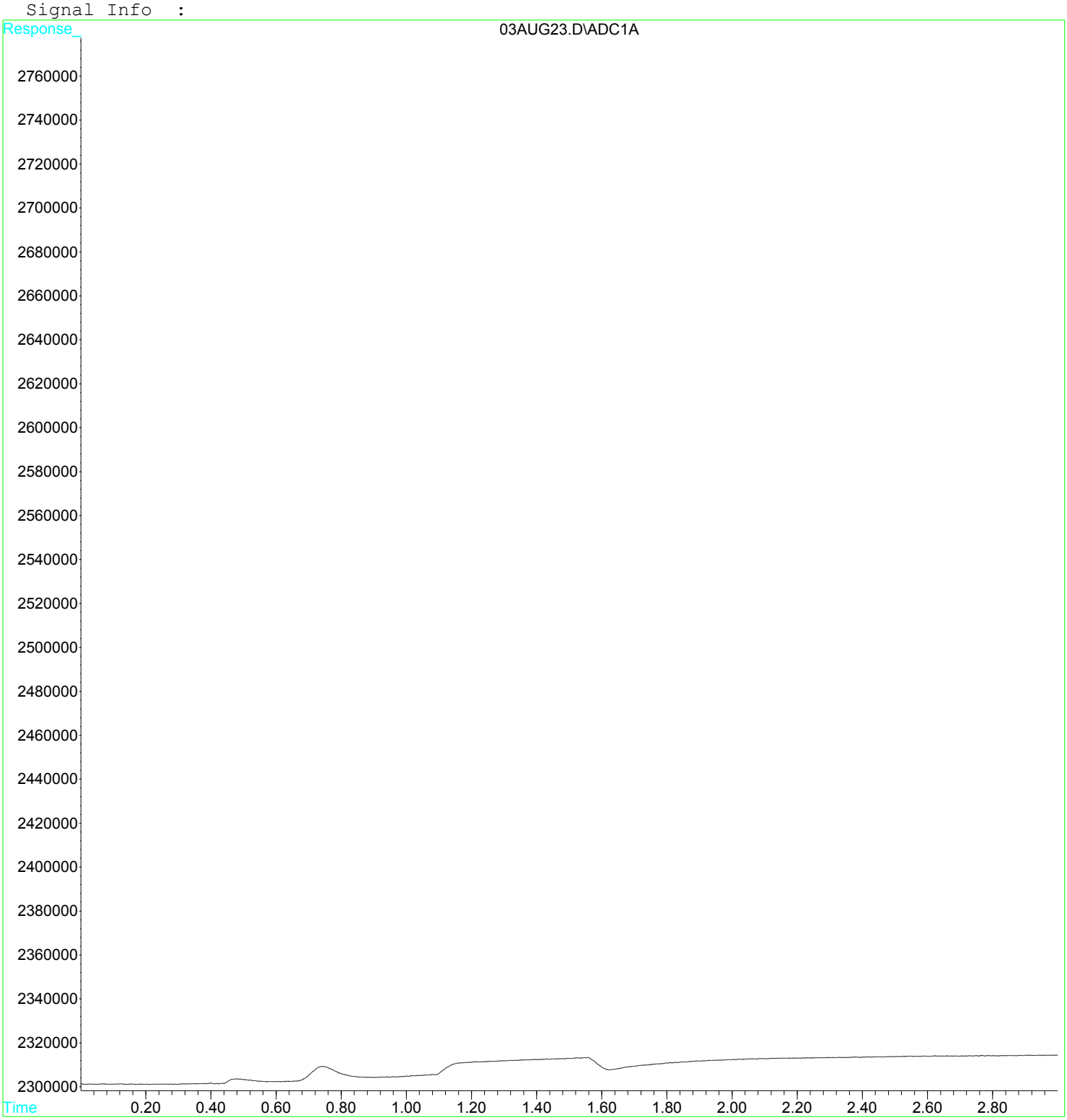
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG23.D Vial: 23
Acq On : 3 Aug 2017 10:17 am Operator: JH2
Sample : 1713689-CCB3 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:08 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG35.D Vial: 35
Acq On : 3 Aug 2017 12:13 pm Operator: JH2
Sample : 1713689-CCB4 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:14 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) m	Methane	0.00	0	N.D.	ug/L	d
2) m	Ethene	0.00	0	N.D.	ug/L	d
3) m	Ethane	0.00	0	N.D.	ug/L	d

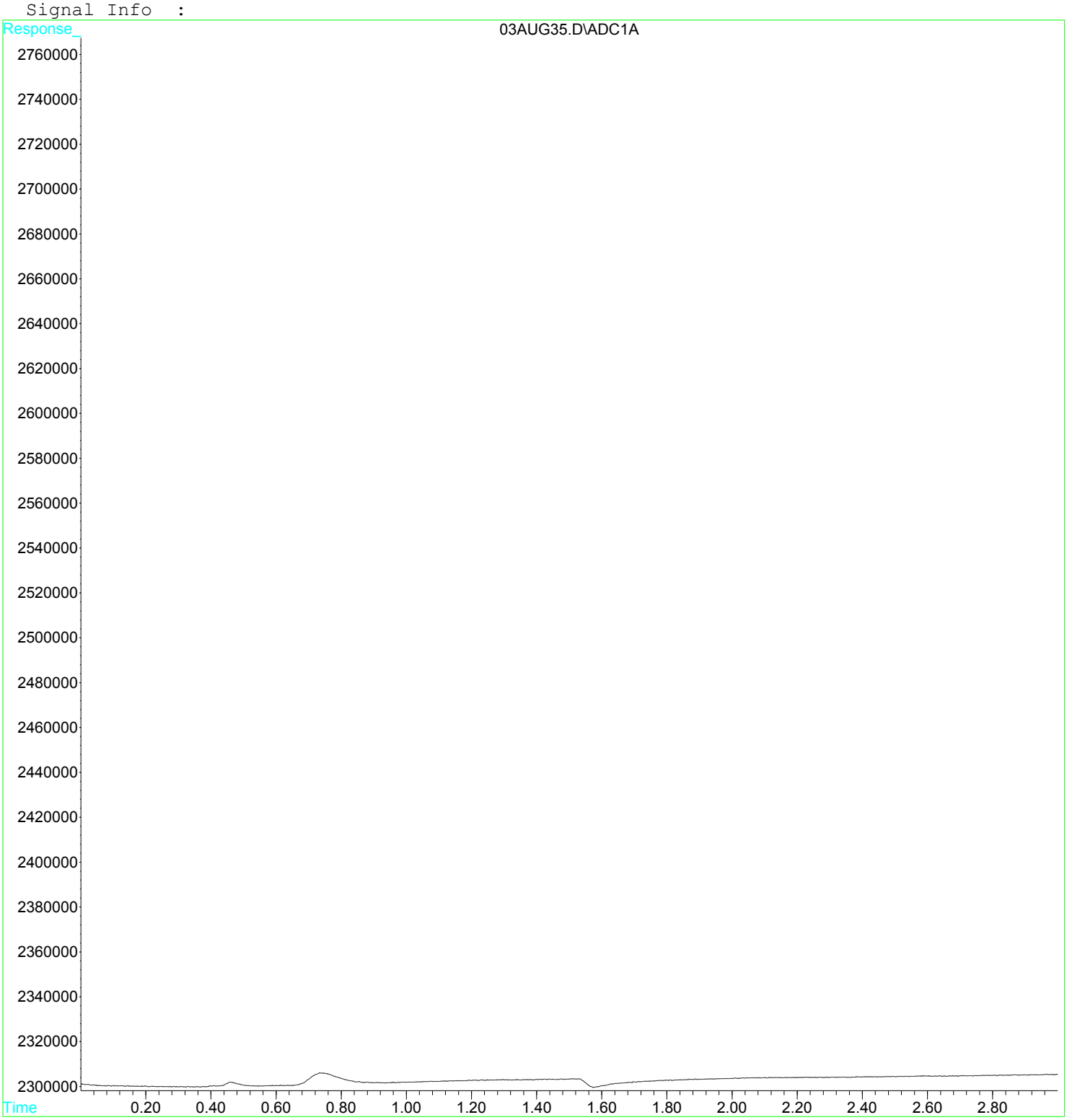
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG35.D Vial: 35
Acq On : 3 Aug 2017 12:13 pm Operator: JH2
Sample : 1713689-CCB4 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:14 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG39.D Vial: 39
Acq On : 3 Aug 2017 1:02 pm Operator: JH2
Sample : 1713689-CCB5 Inst : GC-V1
Misc : 1 He 250uL1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:17 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
Target Compounds						
1) m	Methane	0.00	0	N.D.	ug/L	d
2) m	Ethene	0.00	0	N.D.	ug/L	d
3) m	Ethane	0.00	0	N.D.	ug/L	d

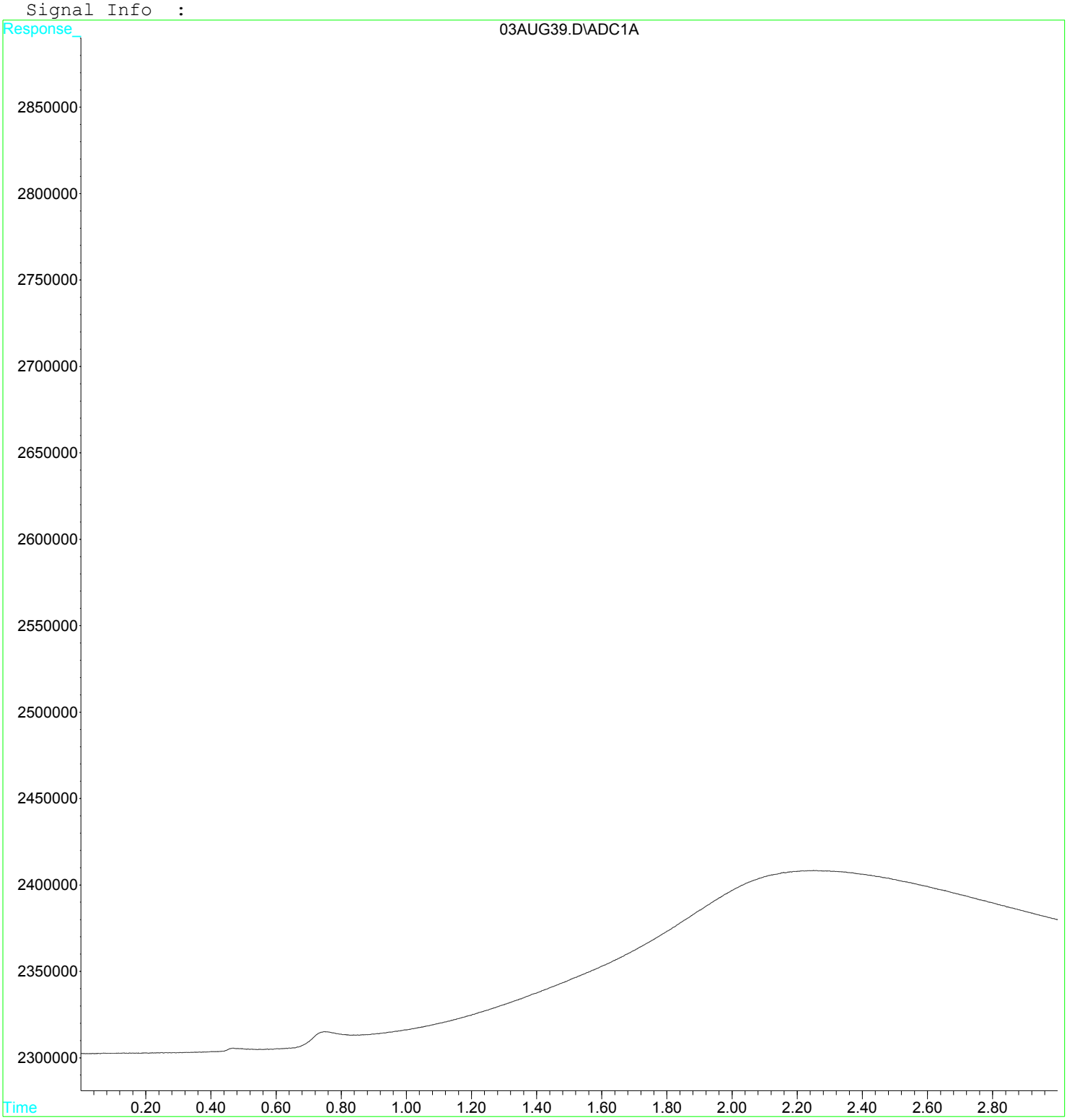
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG39.D Vial: 39
Acq On : 3 Aug 2017 1:02 pm Operator: JH2
Sample : 1713689-CCB5 Inst : GC-V1
Misc : 1 He 250uL1 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:17 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Raw Data - Method Blank

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG04.D Vial: 4
Acq On : 3 Aug 2017 7:43 am Operator: JH2
Sample : B[H0090-BLK1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:55 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) m Methane	0.00	0	N.D.	ug/L d
2) m Ethene	0.00	0	N.D.	ug/L d
3) m Ethane	0.00	0	N.D.	ug/L d

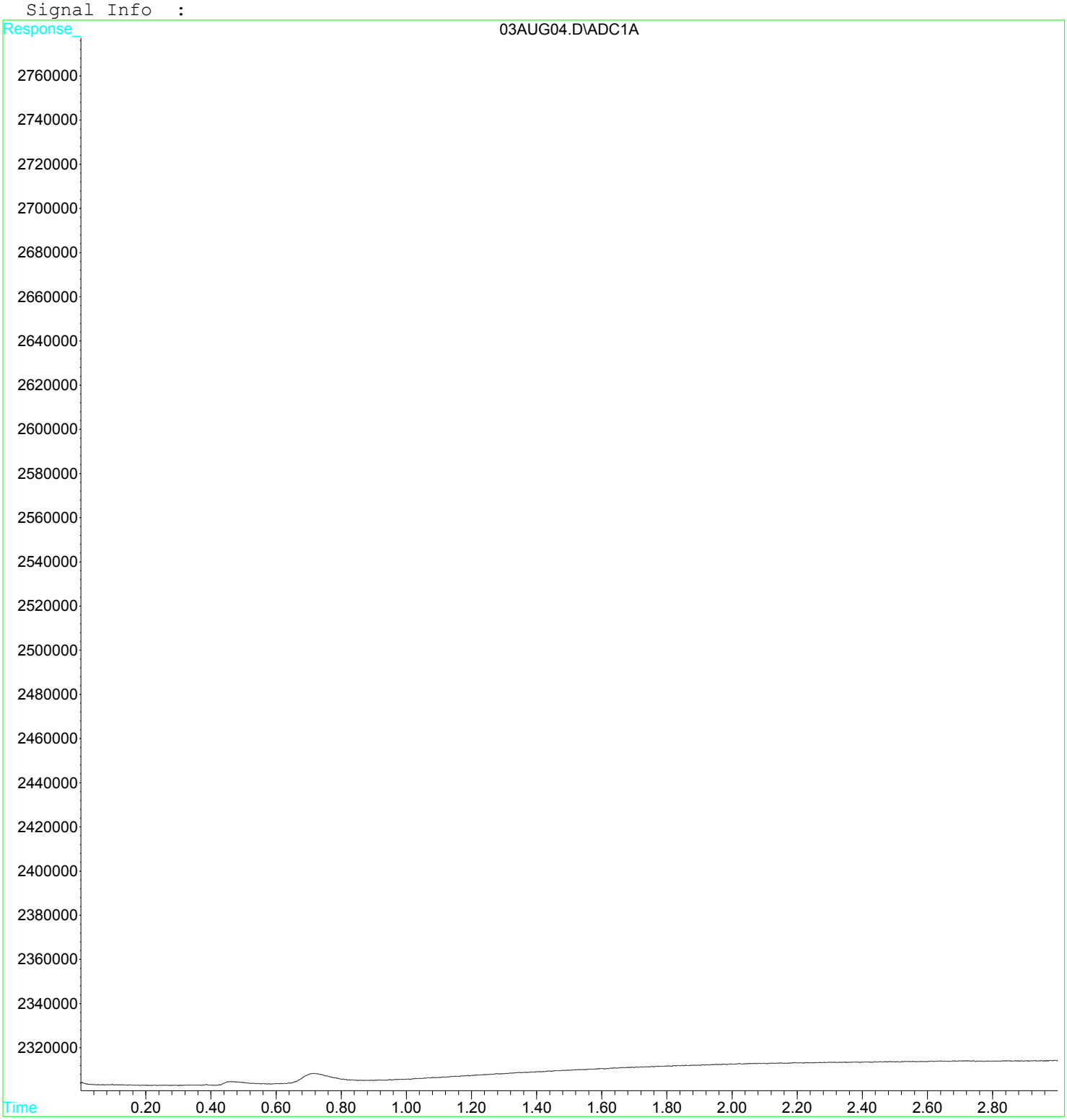
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG04.D Vial: 4
Acq On : 3 Aug 2017 7:43 am Operator: JH2
Sample : B[H0090-BLK1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:55 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG07.D Vial: 7
Acq On : 3 Aug 2017 7:55 am Operator: JH2
Sample : B[H0091-BLK1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:57 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc	Units
Target Compounds				
1) m Methane	0.00	0	N.D.	ug/L d
2) m Ethene	0.00	0	N.D.	ug/L d
3) m Ethane	0.00	0	N.D.	ug/L d

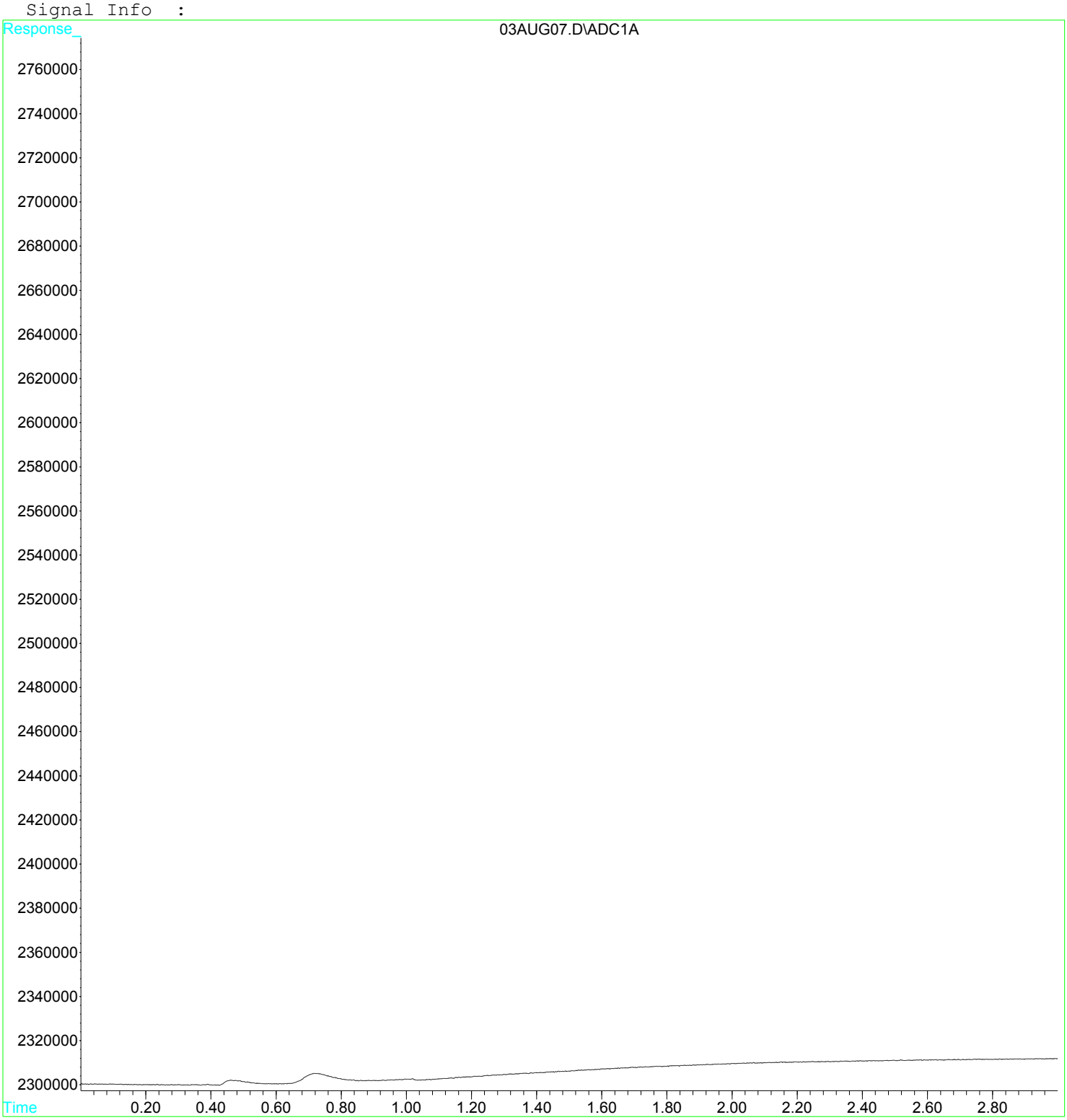
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG07.D Vial: 7
Acq On : 3 Aug 2017 7:55 am Operator: JH2
Sample : B[H0091-BLK1 Inst : GC-V1
Misc : 1 He 250uL Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:57 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :



Raw Data - Lab Control Sample

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG05.D Vial: 5
Acq On : 3 Aug 2017 7:47 am Operator: JH2
Sample : B[H0090-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:56 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) m Methane	0.70	7061843	11.6668 ug/L
2) m Ethene	1.66	11231033	27.9048 ug/L m
3) m Ethane	2.00	13930528	23.9804 ug/L m

(f)=RT Delta > 1/2 Window (m)=manual int

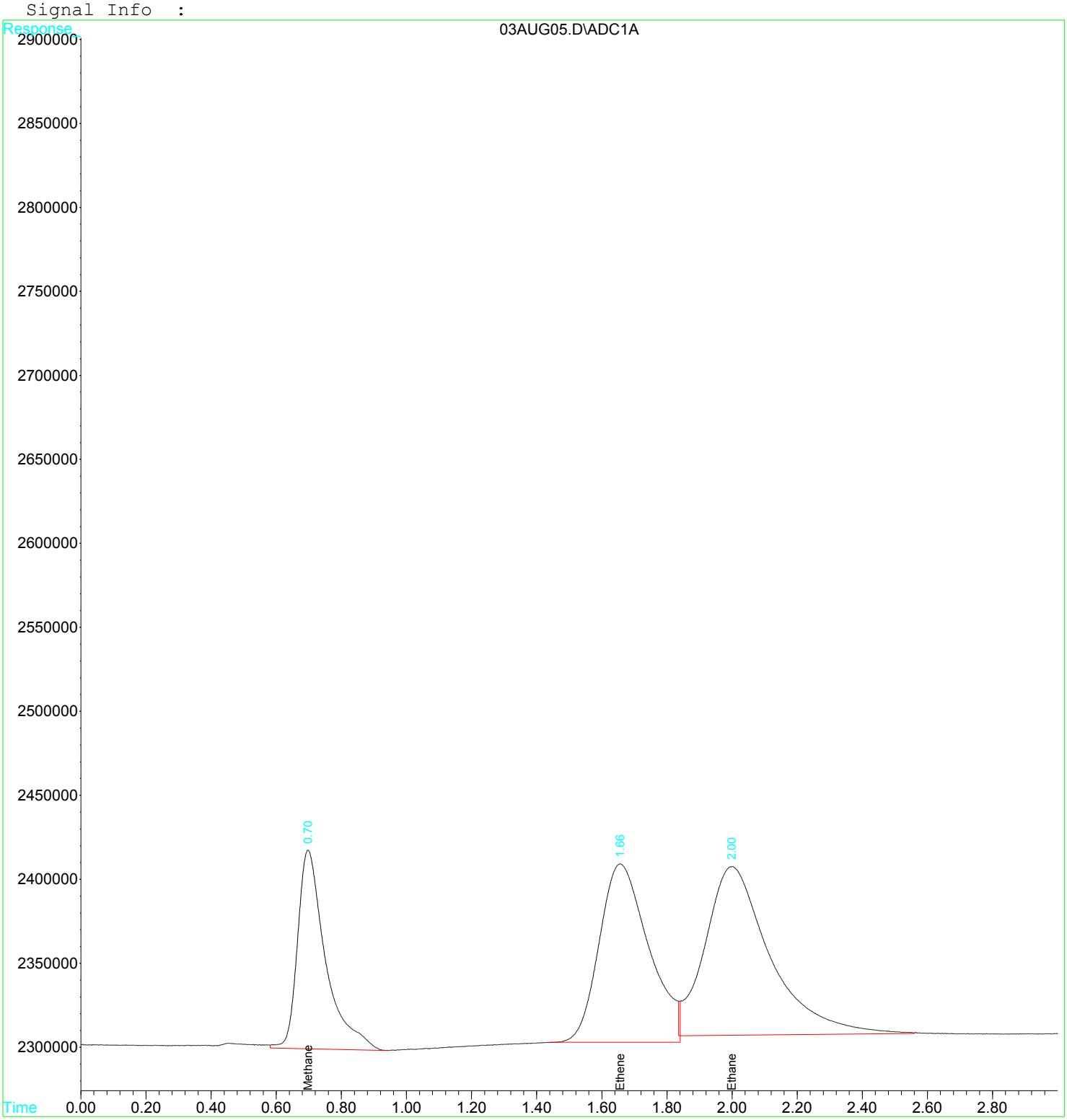
03AUG05.D RSK175.M Thu Aug 03 13:56:18 2017 MSD1 Page 1

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG05.D Vial: 5
Acq On : 3 Aug 2017 7:47 am Operator: JH2
Sample : B[H0090-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:56 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

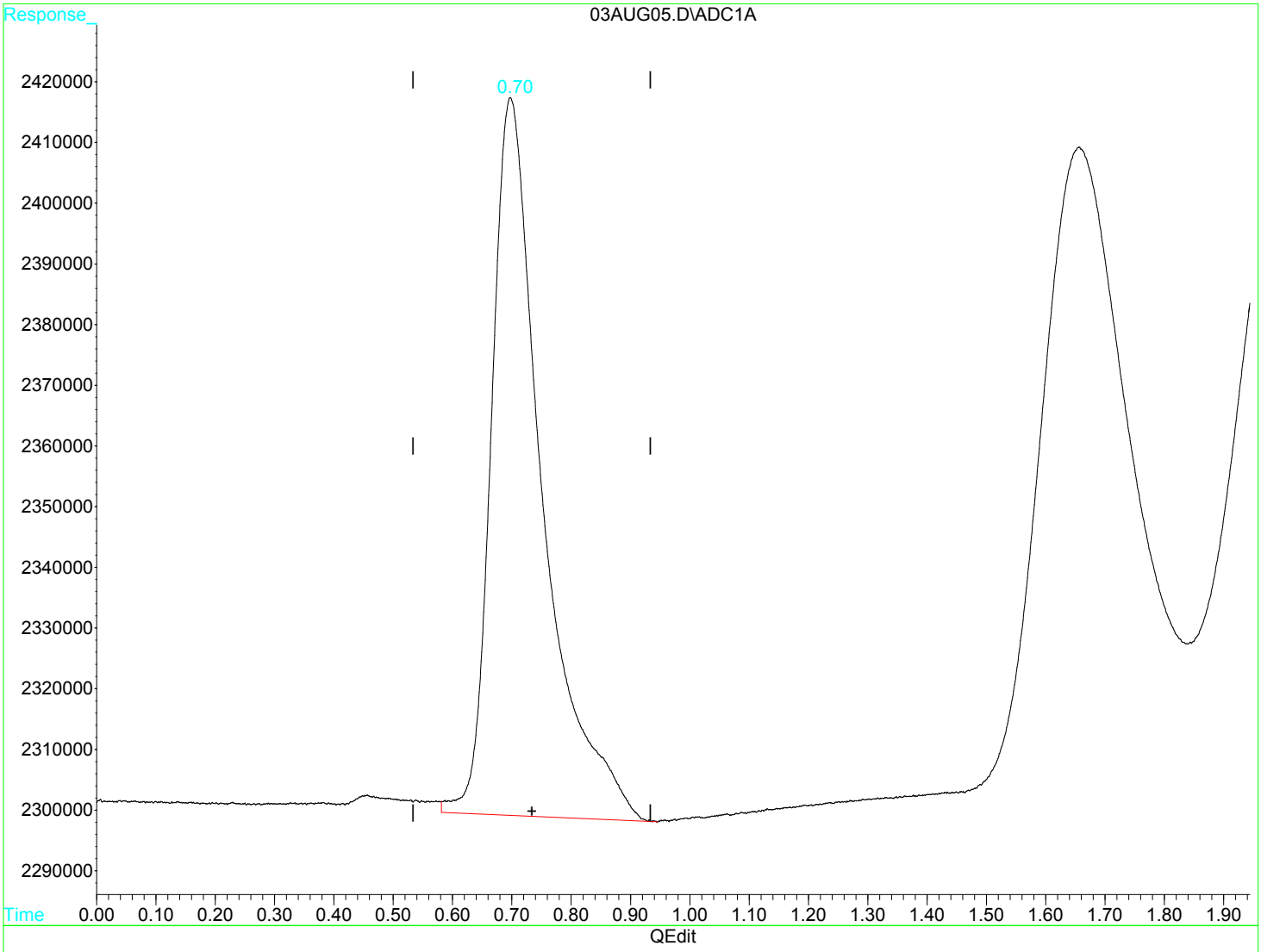
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG05.D Vial: 5
Acq On : 3 Aug 2017 7:47 am Operator: JH2
Sample : B[H0090-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 7:50 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.70min 11.667ug/L

response 7061843

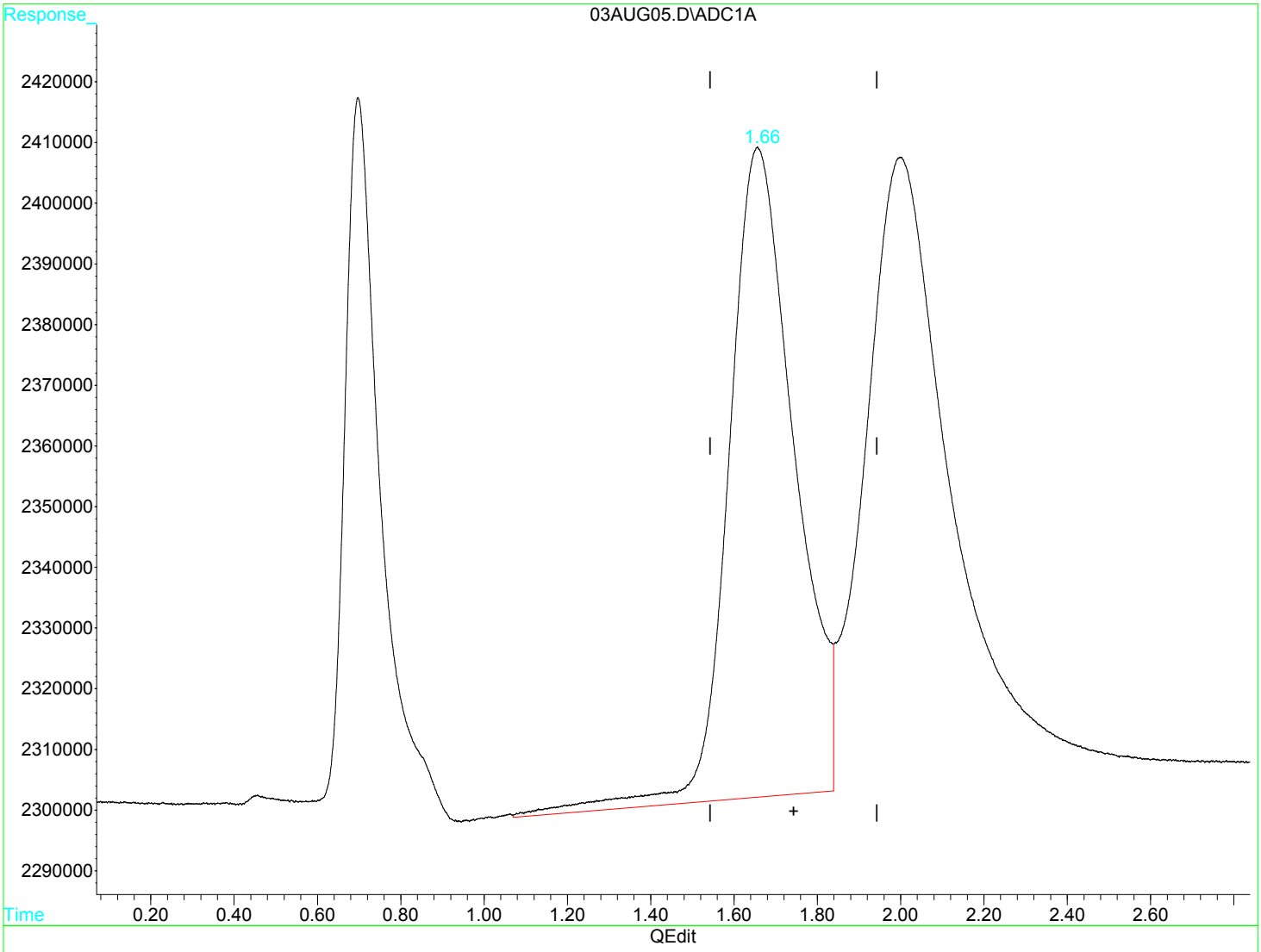
(+) = Expected Retention Time

03AUG05.D RSK175.M Thu Aug 03 13:55:33 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG05.D Vial: 5
Acq On : 3 Aug 2017 7:47 am Operator: JH2
Sample : B[H0090-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 7:50 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.66min 29.205ug/L

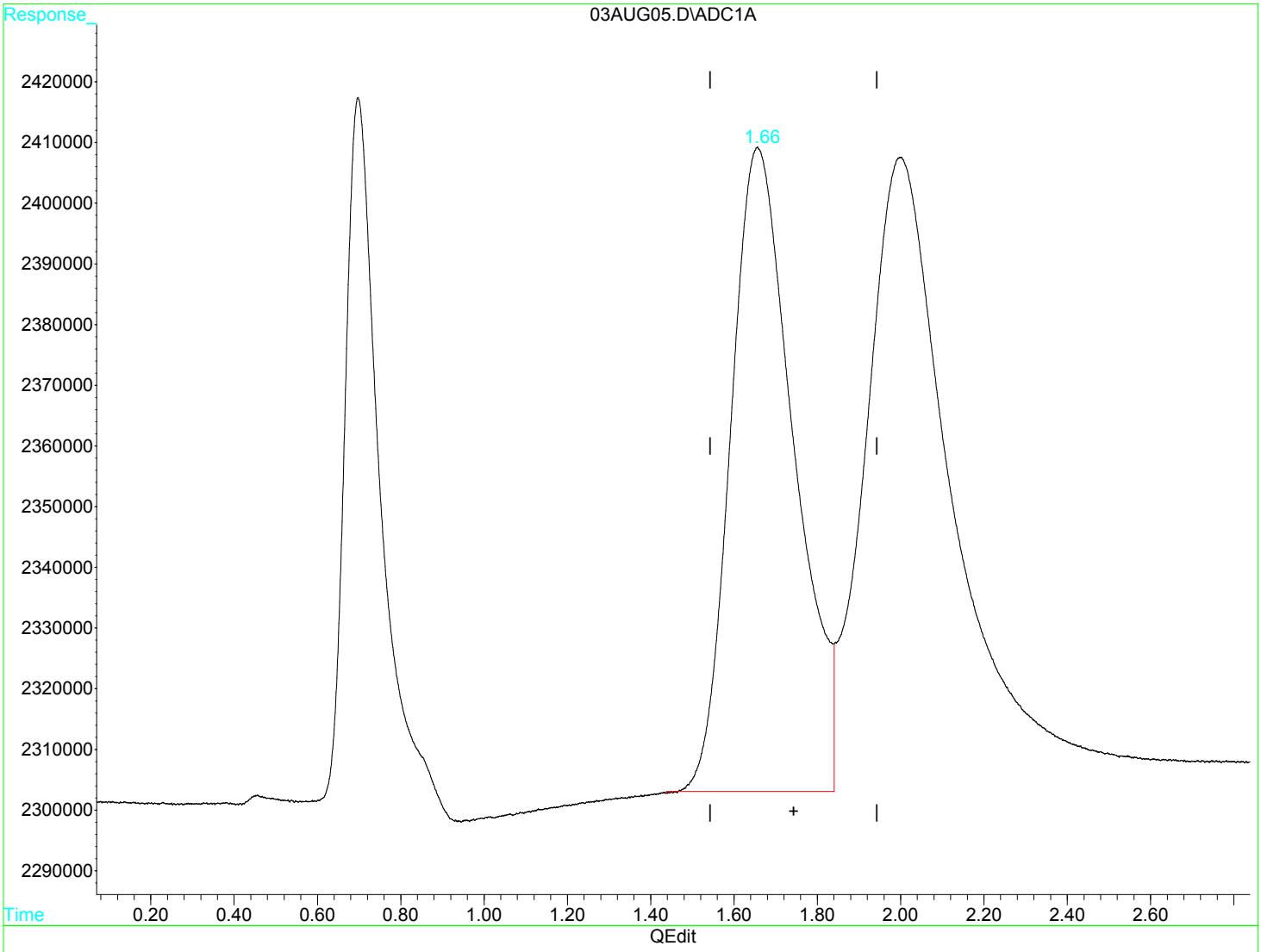
response 11754190

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG05.D Vial: 5
Acq On : 3 Aug 2017 7:47 am Operator: JH2
Sample : B[H0090-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 7:50 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.66min 27.905ug/L m

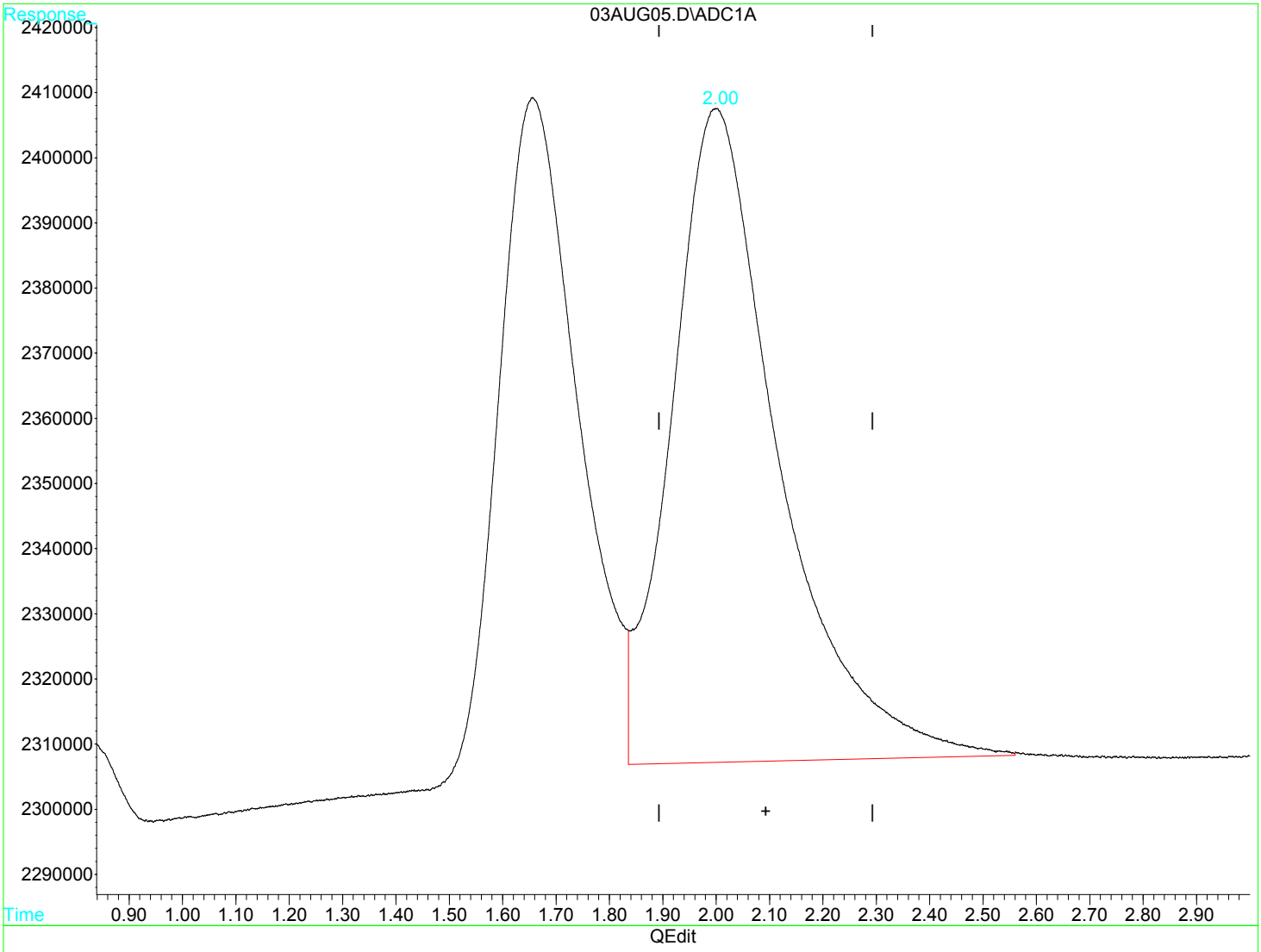
response 11231033

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG05.D Vial: 5
Acq On : 3 Aug 2017 7:47 am Operator: JH2
Sample : B[H0090-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 7:50 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.00min 23.980ug/L m

response 13930528

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG08.D Vial: 8
Acq On : 3 Aug 2017 7:59 am Operator: JH2
Sample : B[H0091-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:58 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) m Methane	0.70	6234456	10.2999 ug/L m
2) m Ethene	1.66	11653809	28.9552 ug/L m
3) m Ethane	2.00	12591927	21.6761 ug/L m

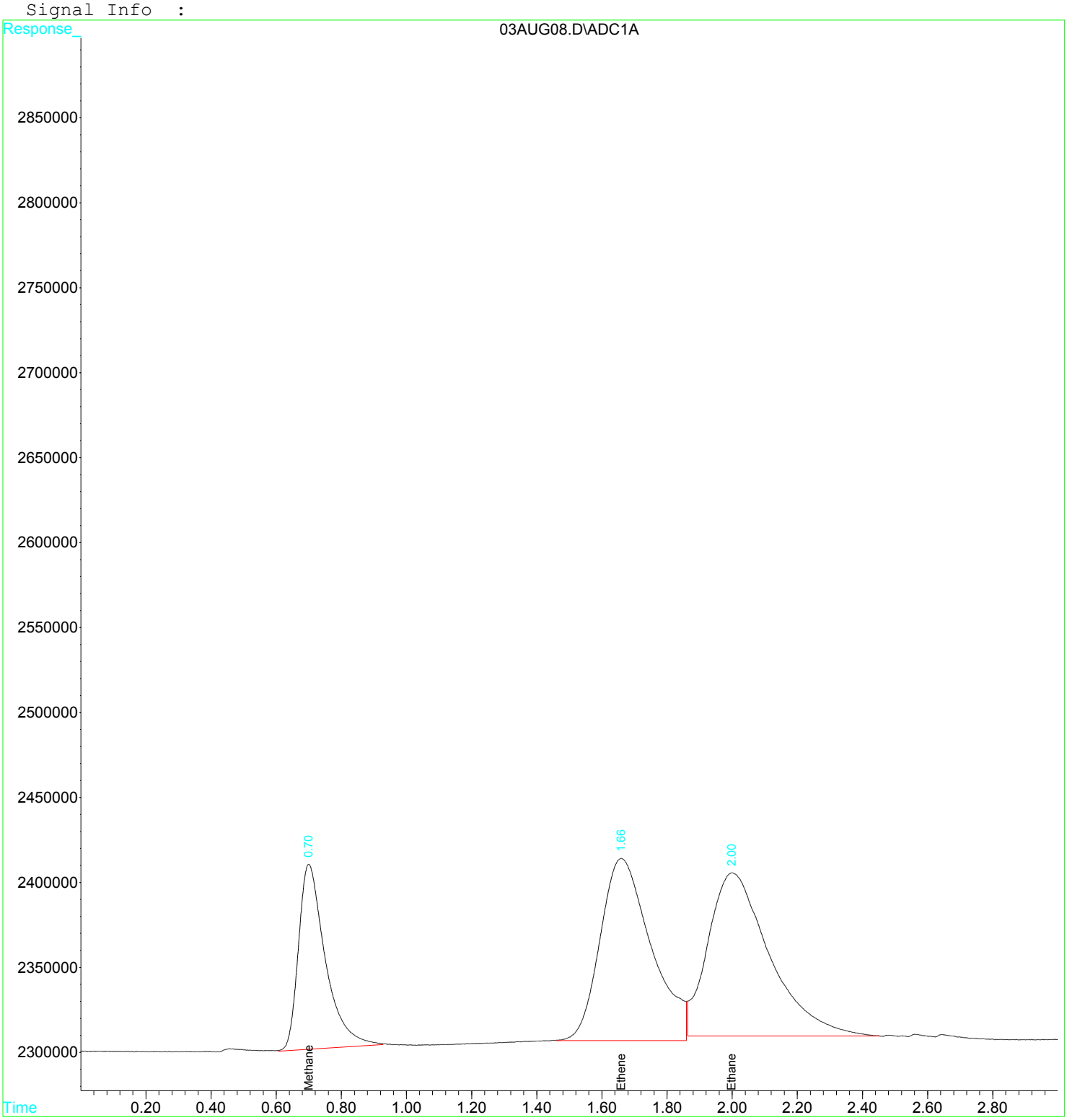
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG08.D Vial: 8
Acq On : 3 Aug 2017 7:59 am Operator: JH2
Sample : B[H0091-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:58 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

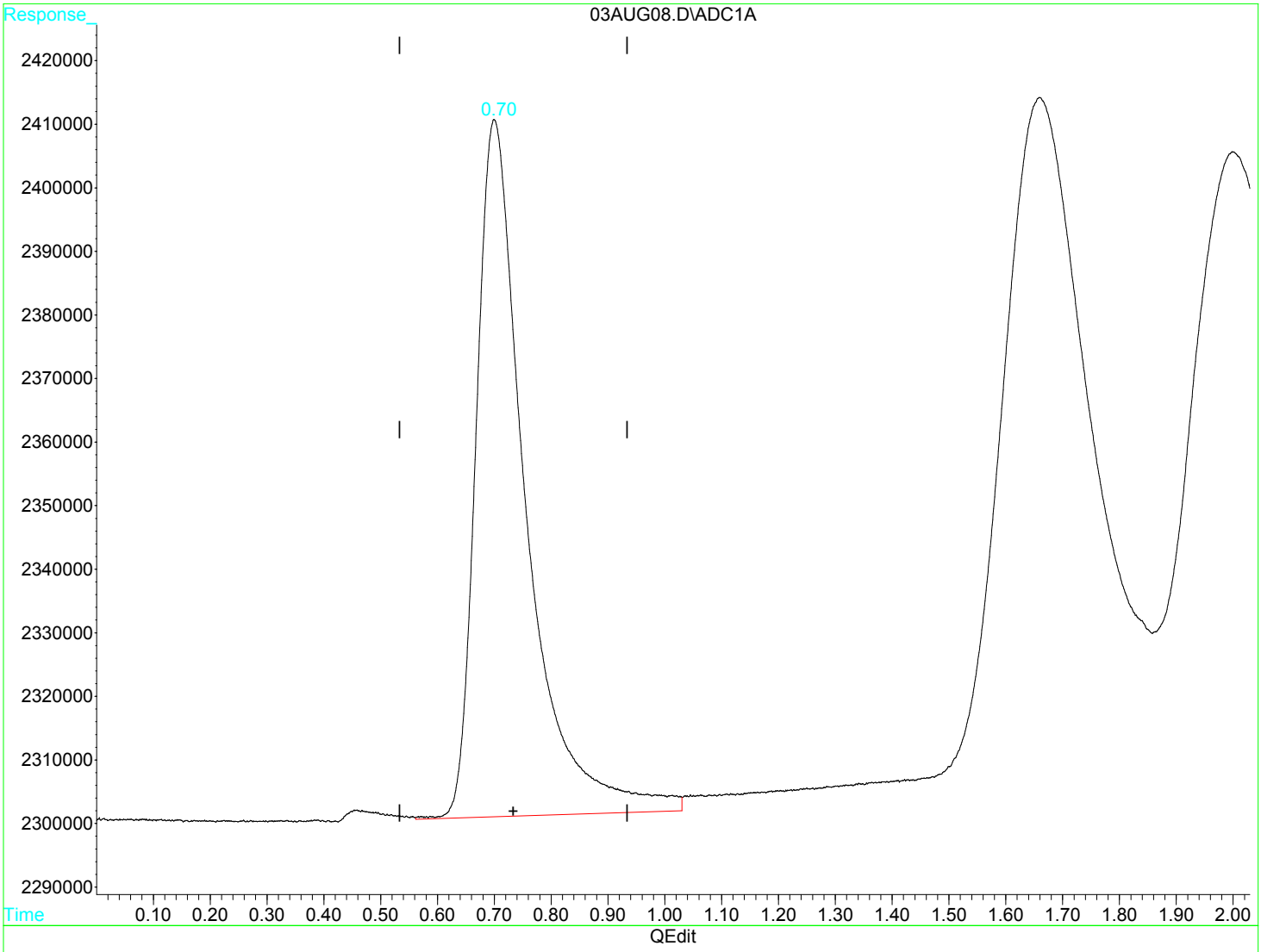
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG08.D Vial: 8
Acq On : 3 Aug 2017 7:59 am Operator: JH2
Sample : B[H0091-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 8:02 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.70min 11.020ug/L

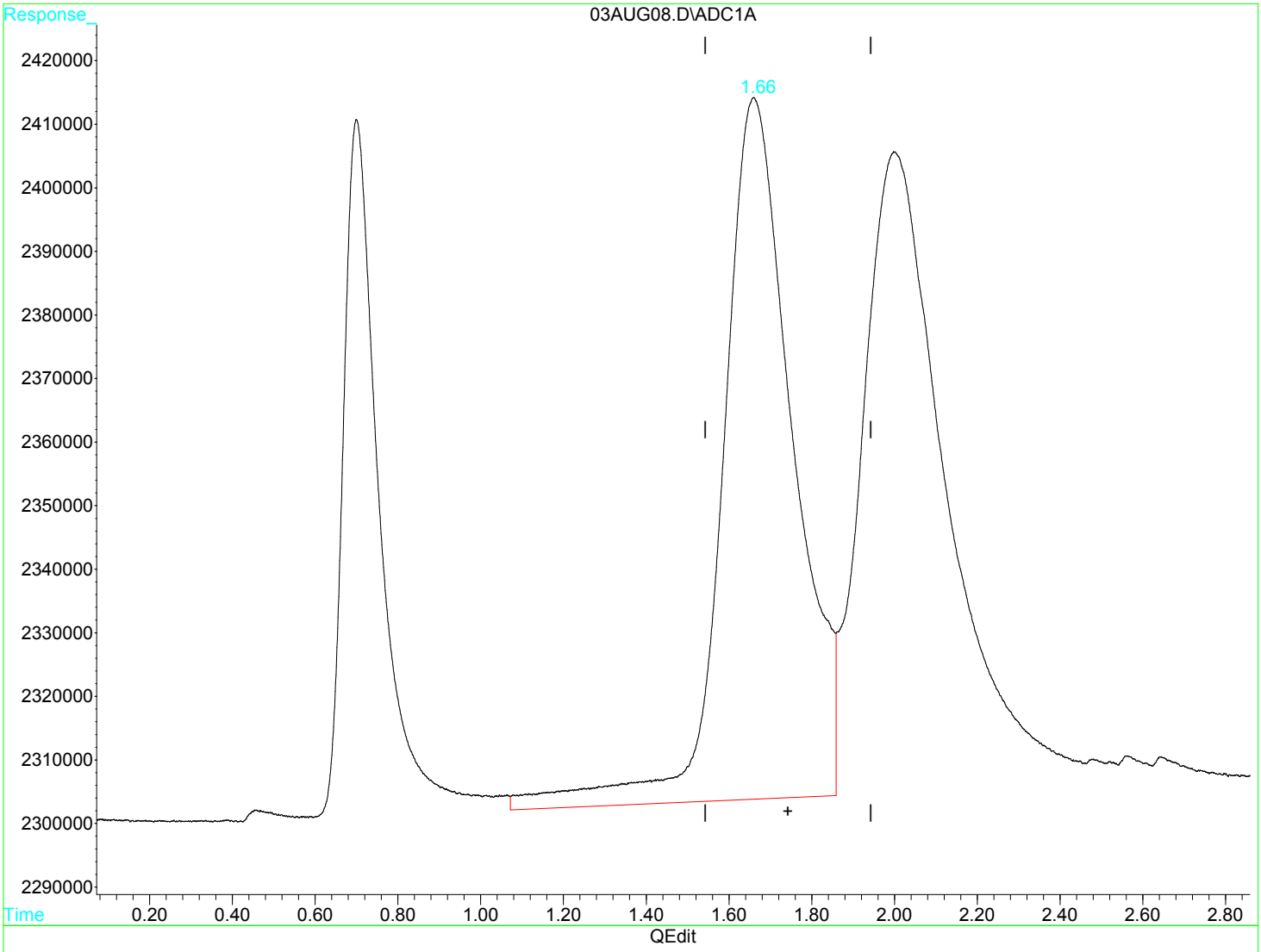
response 6670085

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG08.D Vial: 8
Acq On : 3 Aug 2017 7:59 am Operator: JH2
Sample : B[H0091-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 8:02 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.66min 32.494ug/L

response 13078249

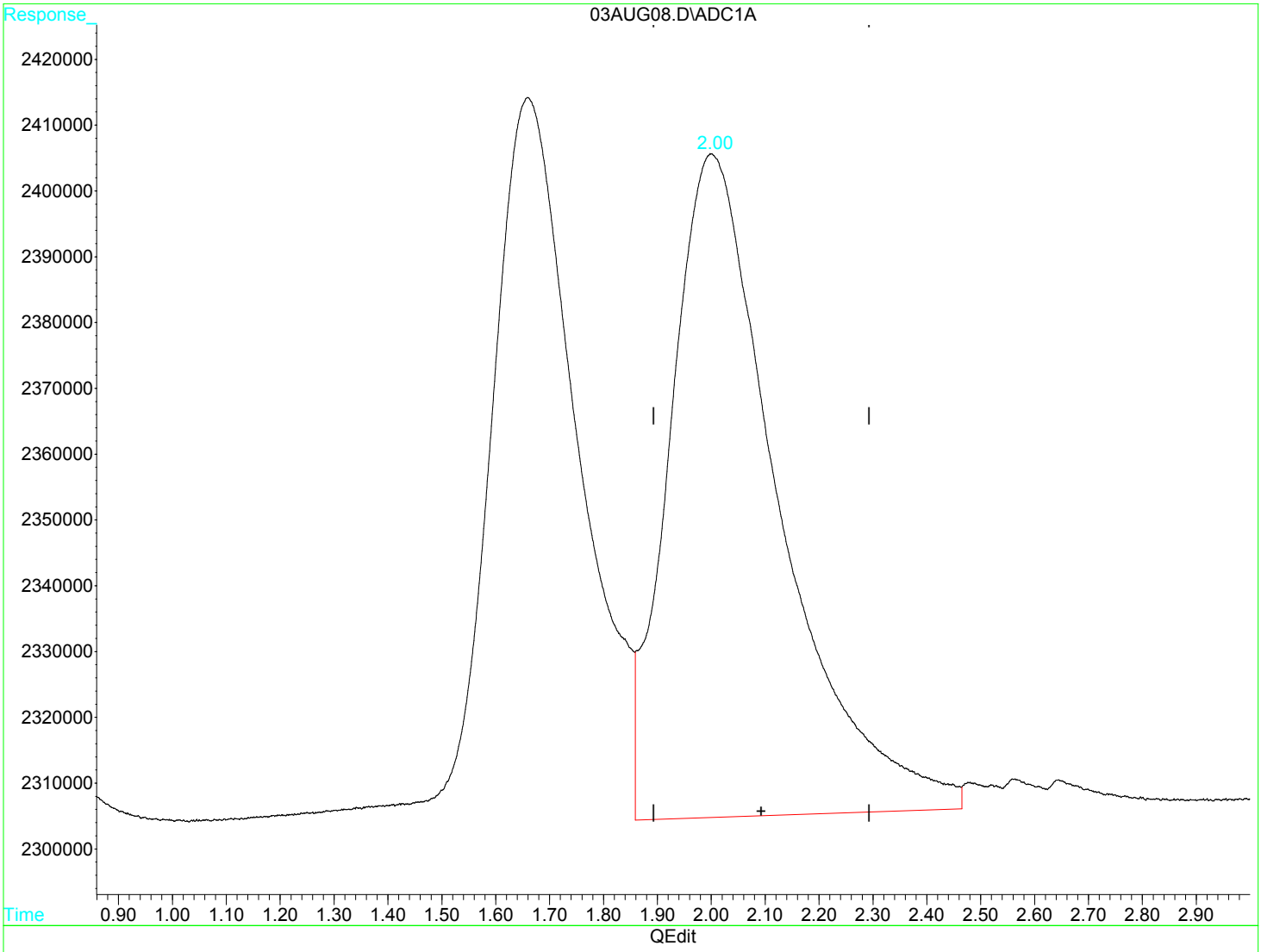
(+) = Expected Retention Time

03AUG08.D RSK175.M Thu Aug 03 13:58:09 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG08.D Vial: 8
Acq On : 3 Aug 2017 7:59 am Operator: JH2
Sample : B[H0091-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 8:02 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.00min 24.521ug/L

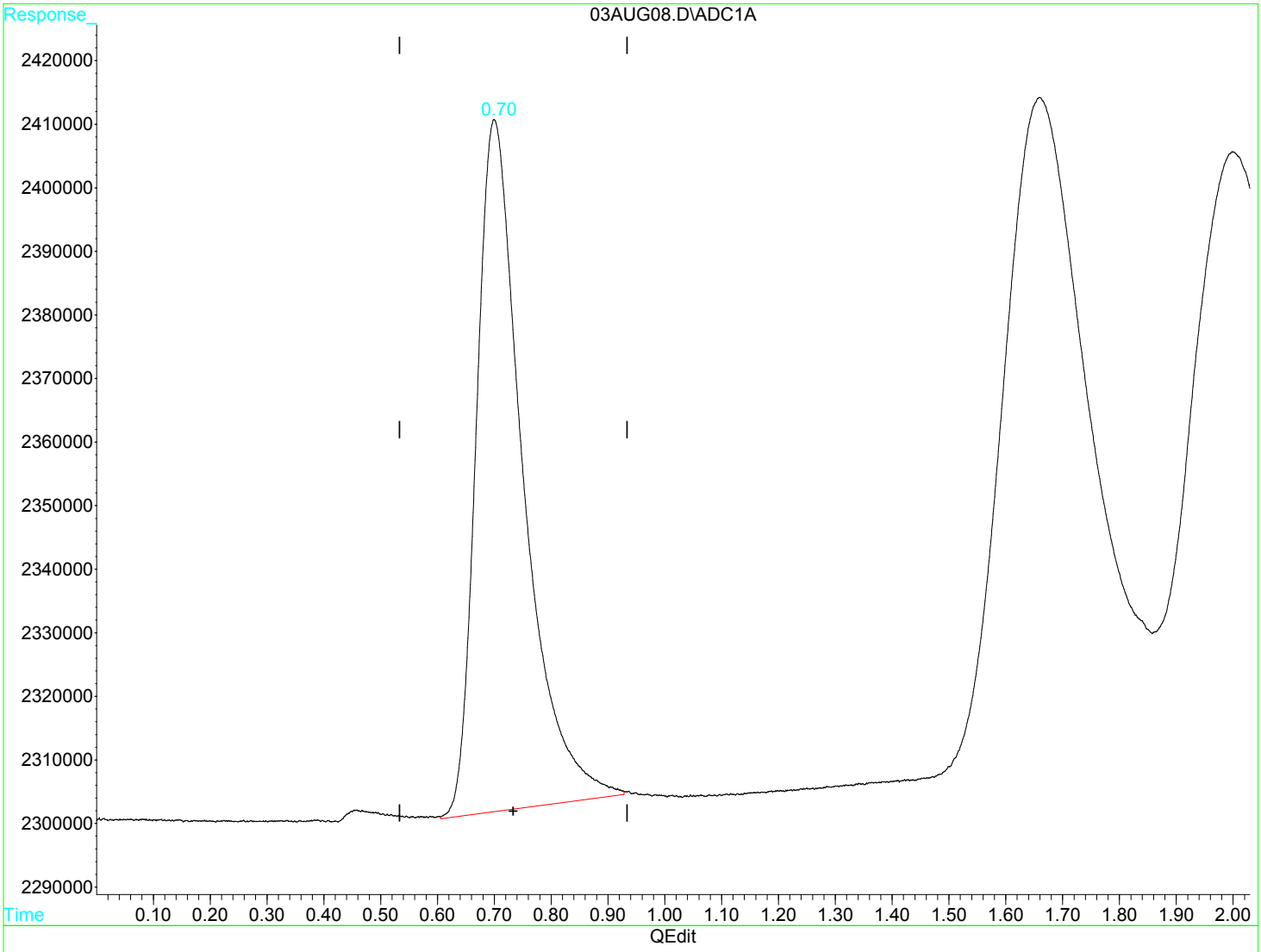
response 14244747

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG08.D Vial: 8
Acq On : 3 Aug 2017 7:59 am Operator: JH2
Sample : B[H0091-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 8:02 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.70min 10.300ug/L m

response 6234456

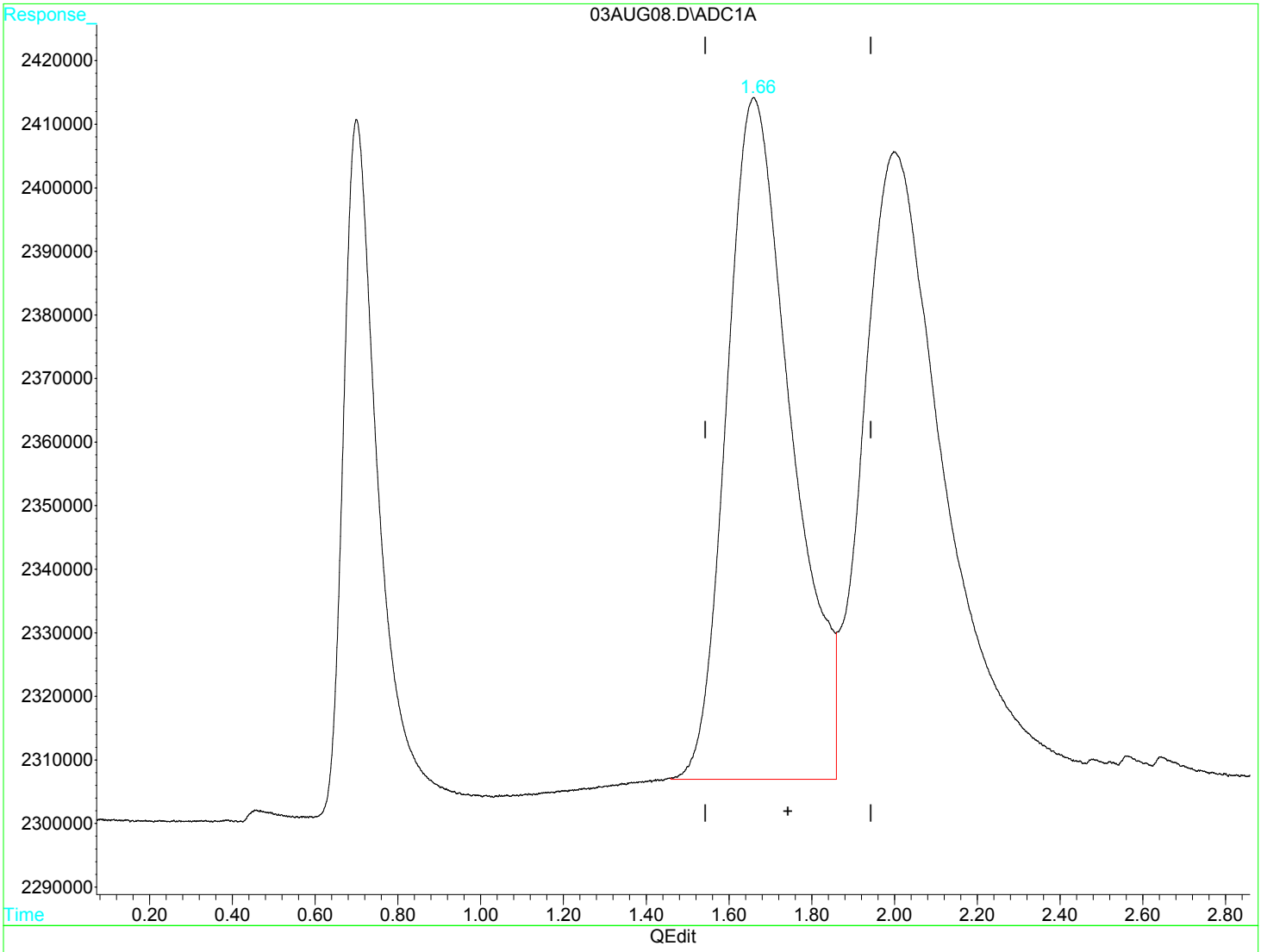
(+) = Expected Retention Time

03AUG08.D RSK175.M Thu Aug 03 13:58:01 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG08.D Vial: 8
Acq On : 3 Aug 2017 7:59 am Operator: JH2
Sample : B[H0091-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 8:02 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.66min 28.955ug/L m

response 11653809

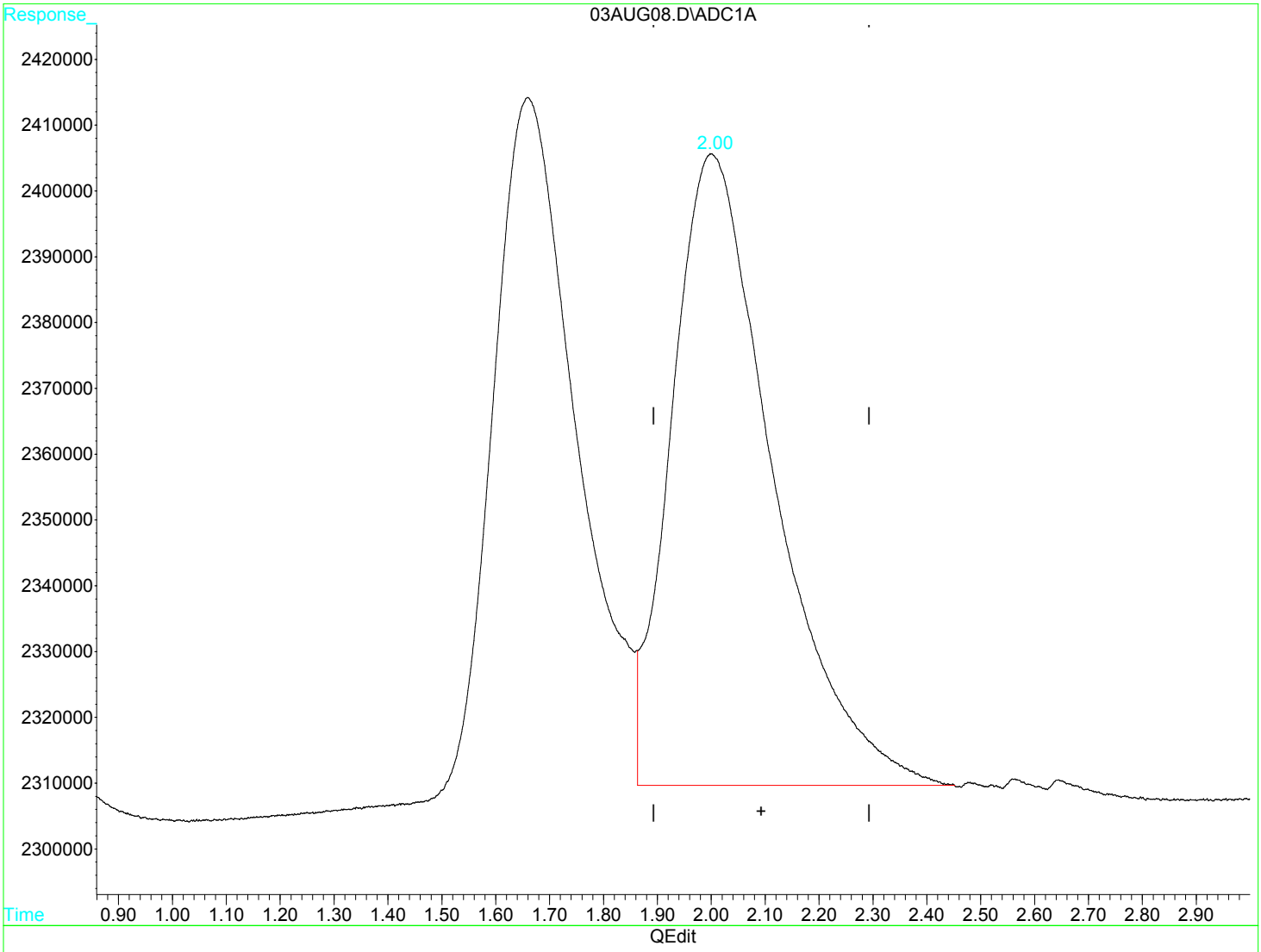
(+) = Expected Retention Time

03AUG08.D RSK175.M Thu Aug 03 13:58:17 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG08.D Vial: 8
Acq On : 3 Aug 2017 7:59 am Operator: JH2
Sample : B[H0091-BS1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 8:02 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.00min 21.676ug/L m

response 12591927

(+) = Expected Retention Time

03AUG08.D RSK175.M Thu Aug 03 13:58:29 2017 MSD1

Raw Data - Lab Control Sample Duplicate

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG06.D Vial: 6
Acq On : 3 Aug 2017 7:51 am Operator: JH2
Sample : B[H0090-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:57 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc Units
	Target Compounds			
1) m	Methane	0.72	6487327	10.7177 ug/L
2) m	Ethene	1.71	11682049	29.0254 ug/L m
3) m	Ethane	2.05	14298942	24.6146 ug/L m

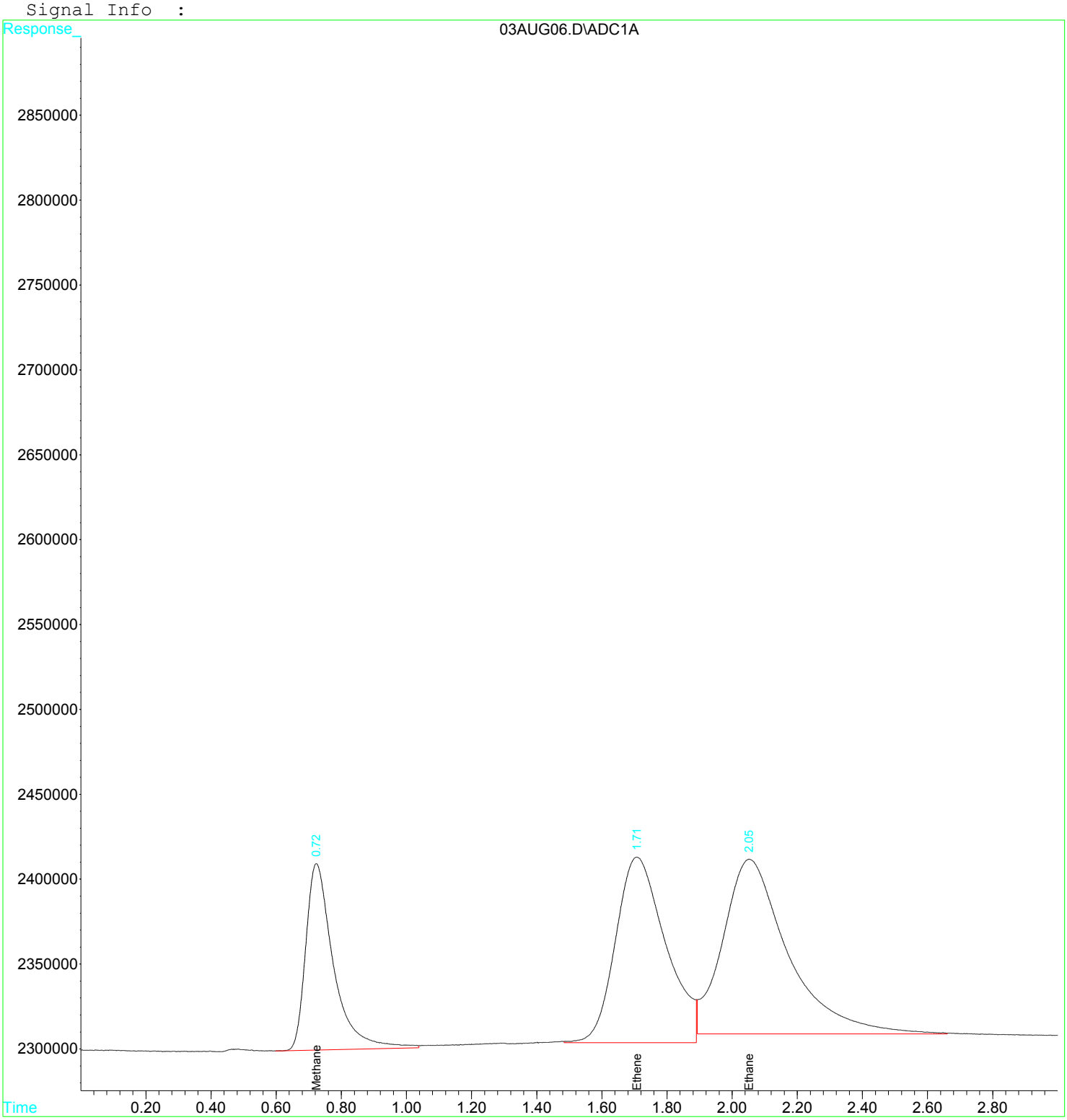
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG06.D Vial: 6
Acq On : 3 Aug 2017 7:51 am Operator: JH2
Sample : B[H0090-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 13:57 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

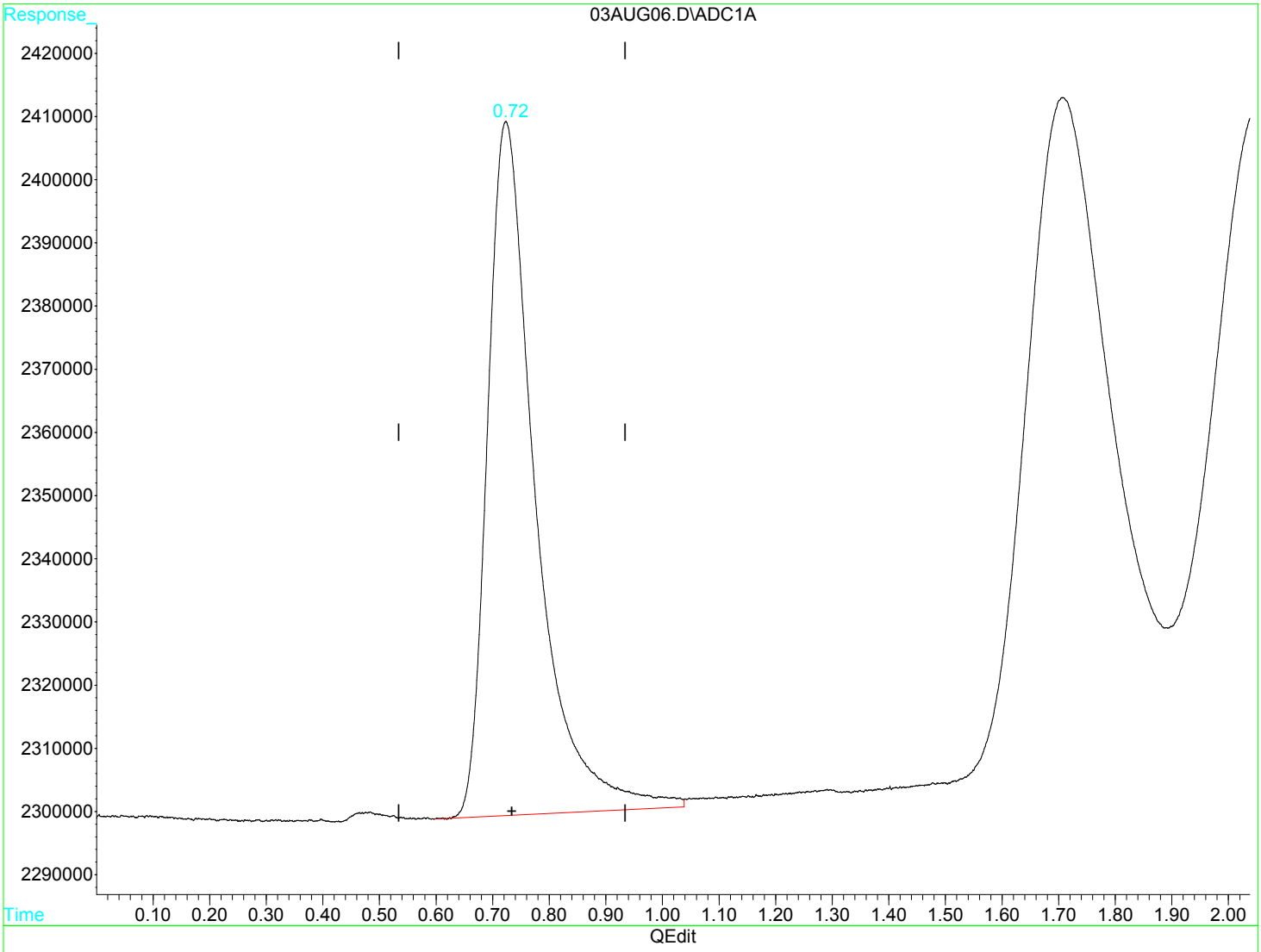
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG06.D Vial: 6
Acq On : 3 Aug 2017 7:51 am Operator: JH2
Sample : B[H0090-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 7:54 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.72min 10.718ug/L

response 6487327

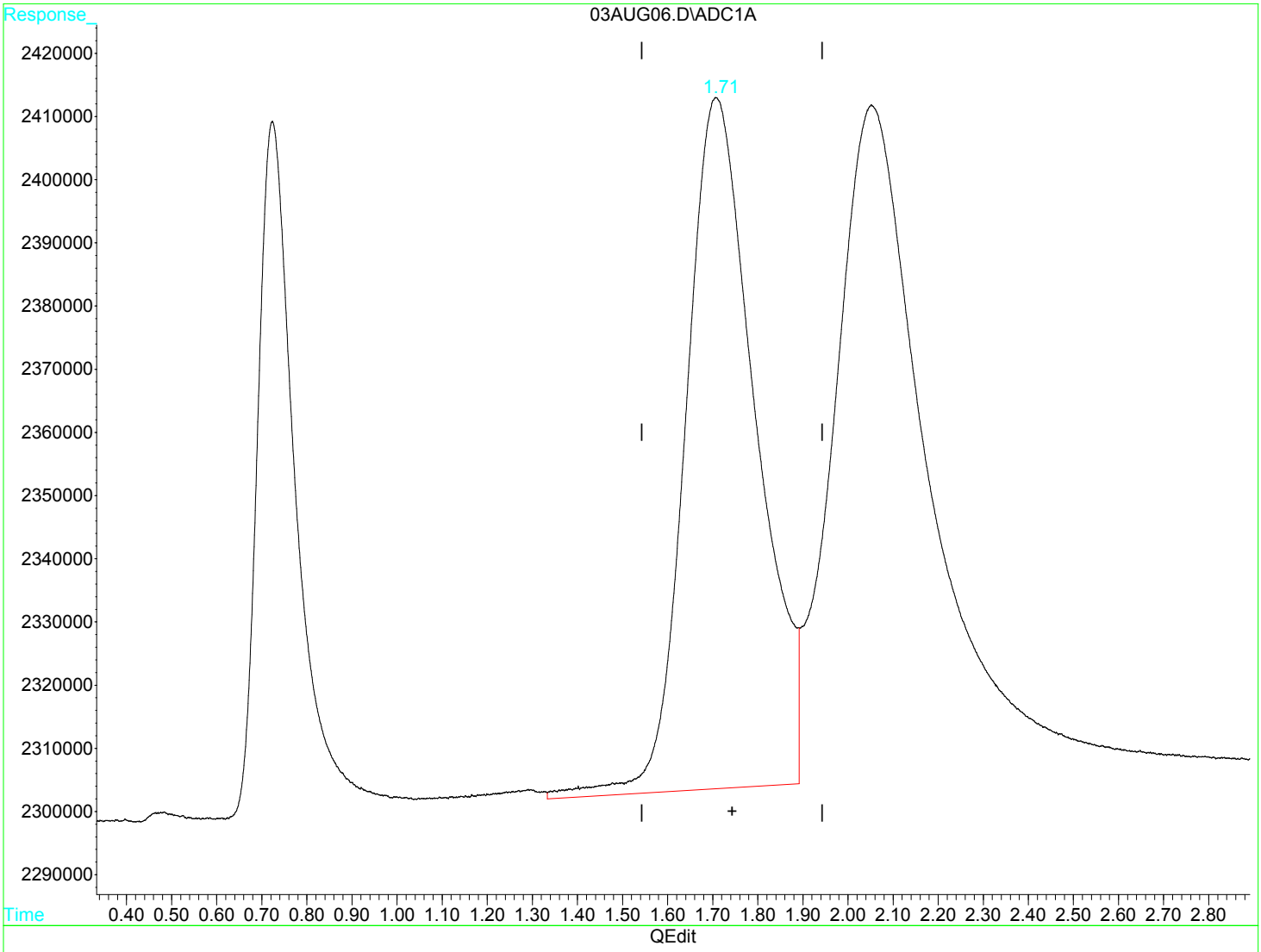
(+) = Expected Retention Time

03AUG06.D RSK175.M Thu Aug 03 13:56:24 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG06.D Vial: 6
Acq On : 3 Aug 2017 7:51 am Operator: JH2
Sample : B[H0090-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 7:54 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.71min 29.461ug/L

response 11857375

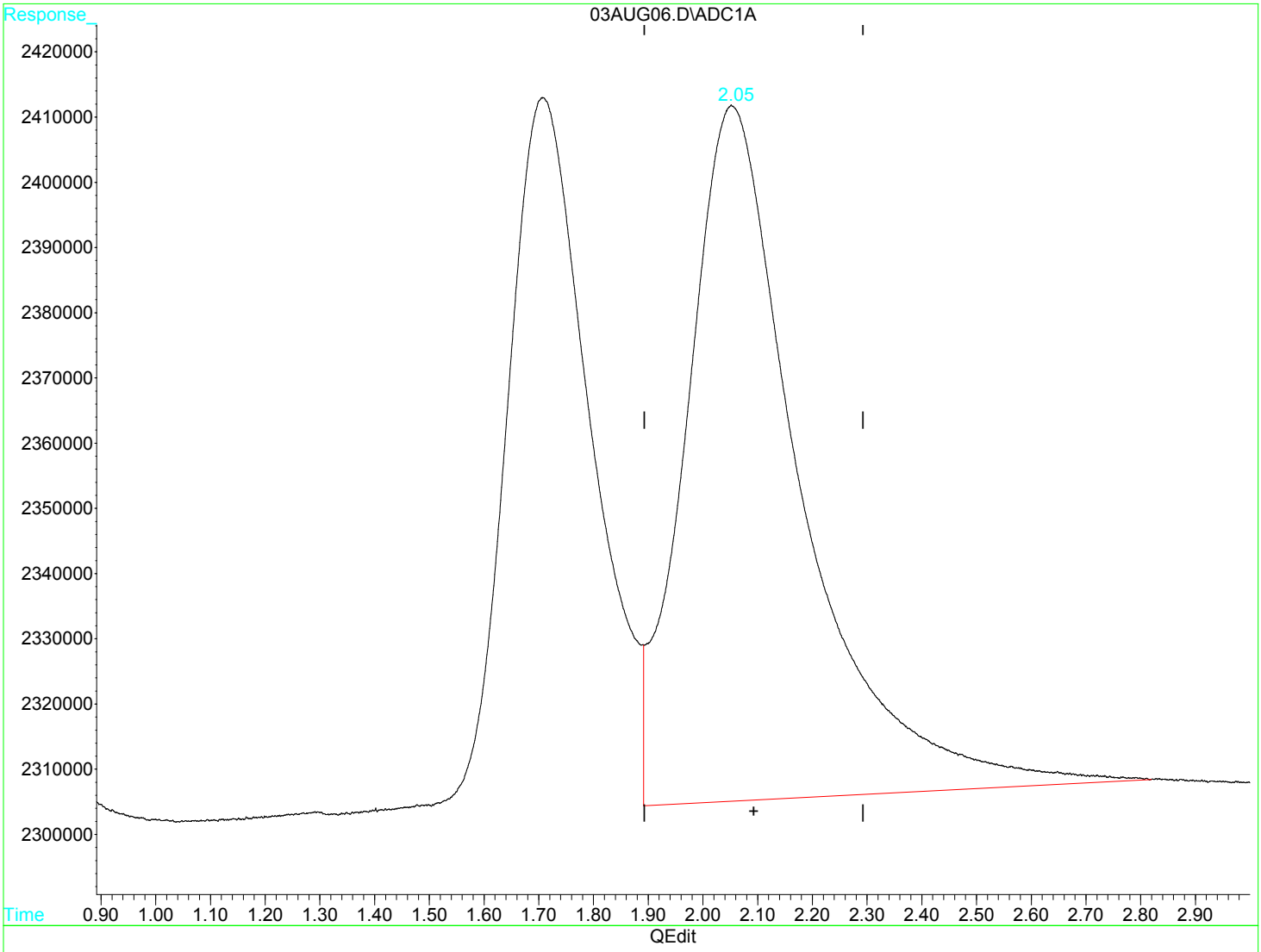
(+) = Expected Retention Time

03AUG06.D RSK175.M Thu Aug 03 13:56:32 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG06.D Vial: 6
Acq On : 3 Aug 2017 7:51 am Operator: JH2
Sample : B[H0090-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 7:54 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.05min 27.025ug/L

response 15698914

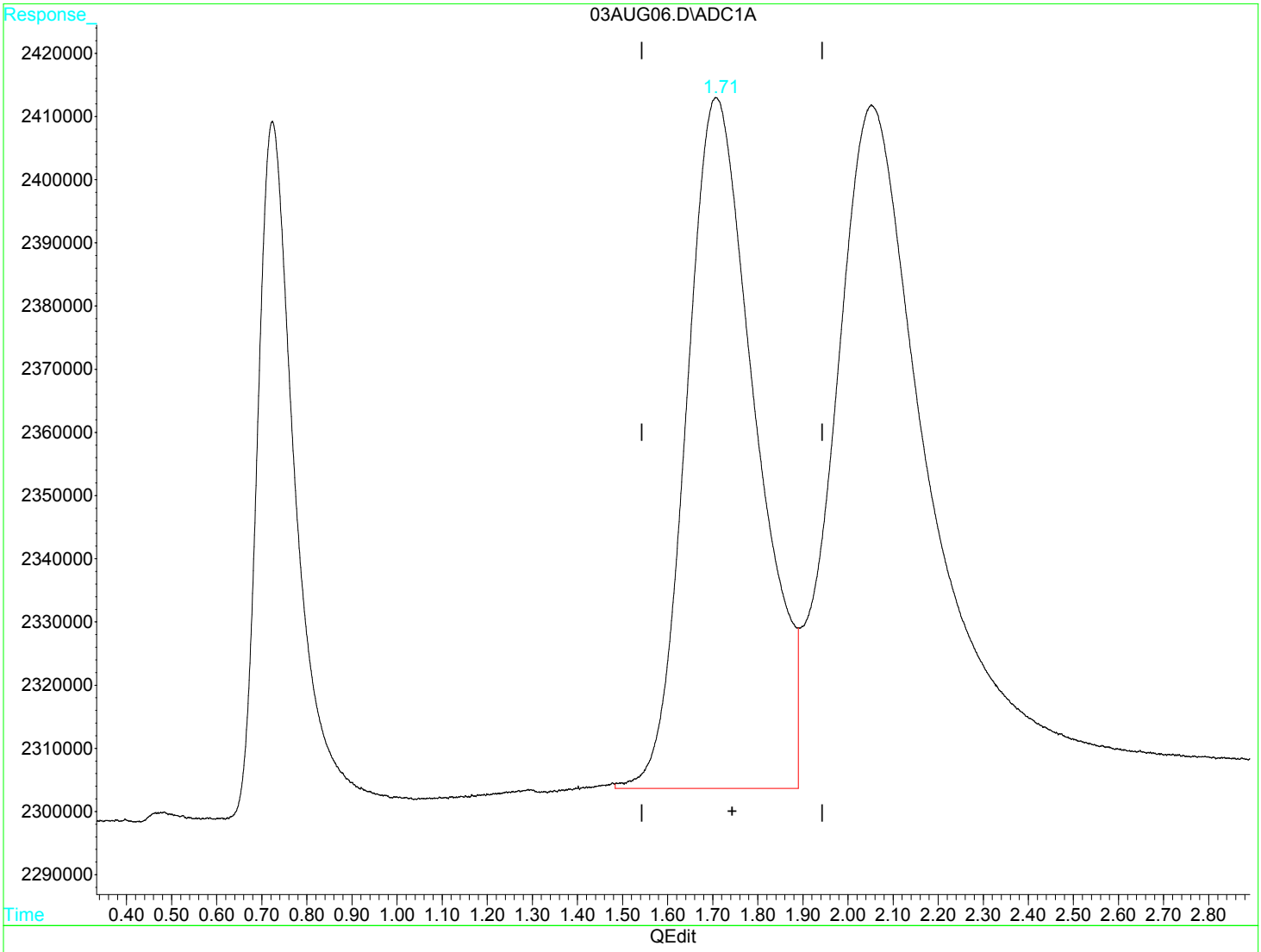
(+) = Expected Retention Time

03AUG06.D RSK175.M Thu Aug 03 13:56:56 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG06.D Vial: 6
Acq On : 3 Aug 2017 7:51 am Operator: JH2
Sample : B[H0090-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 7:54 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.71min 29.025ug/L m

response 11682049

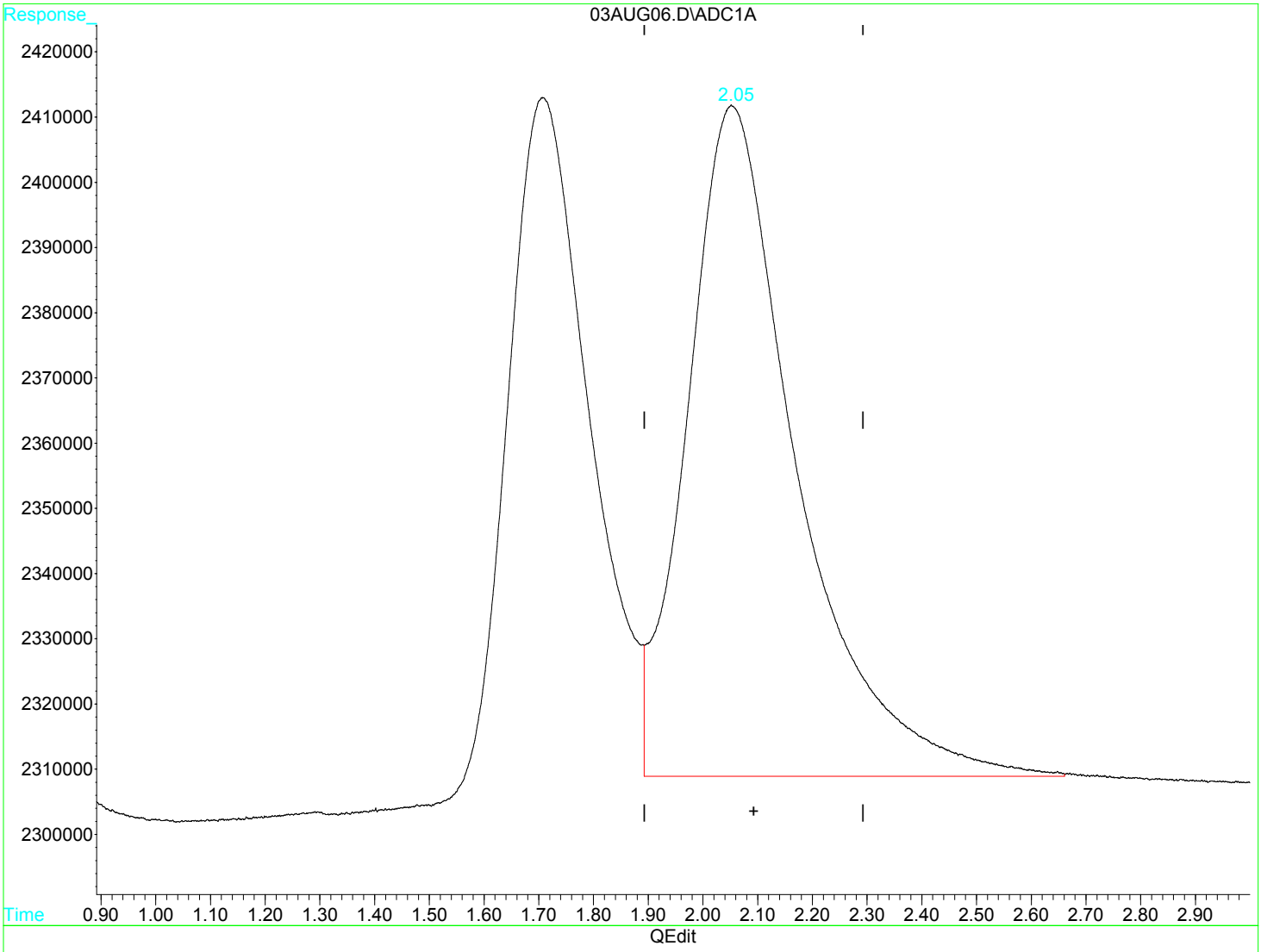
(+) = Expected Retention Time

03AUG06.D RSK175.M Thu Aug 03 13:56:41 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG06.D Vial: 6
Acq On : 3 Aug 2017 7:51 am Operator: JH2
Sample : B[H0090-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 7:54 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.05min 24.615ug/L m

response 14298942

(+) = Expected Retention Time

03AUG06.D RSK175.M Thu Aug 03 13:57:08 2017 MSD1

Quantitation Report (QT Reviewed)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG09.D Vial: 9
Acq On : 3 Aug 2017 8:04 am Operator: JH2
Sample : B[H0091-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:00 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Initial Calibration
DataAcq Meth : RSK175.M

Volume Inj. :
Signal Phase :
Signal Info :

Compound	R.T.	Response	Conc Units
Target Compounds			
1) m Methane	0.71	6328736	10.4557 ug/L
2) m Ethene	1.70	11206490	27.8438 ug/L m
3) m Ethane	2.05	13998152	24.0968 ug/L m

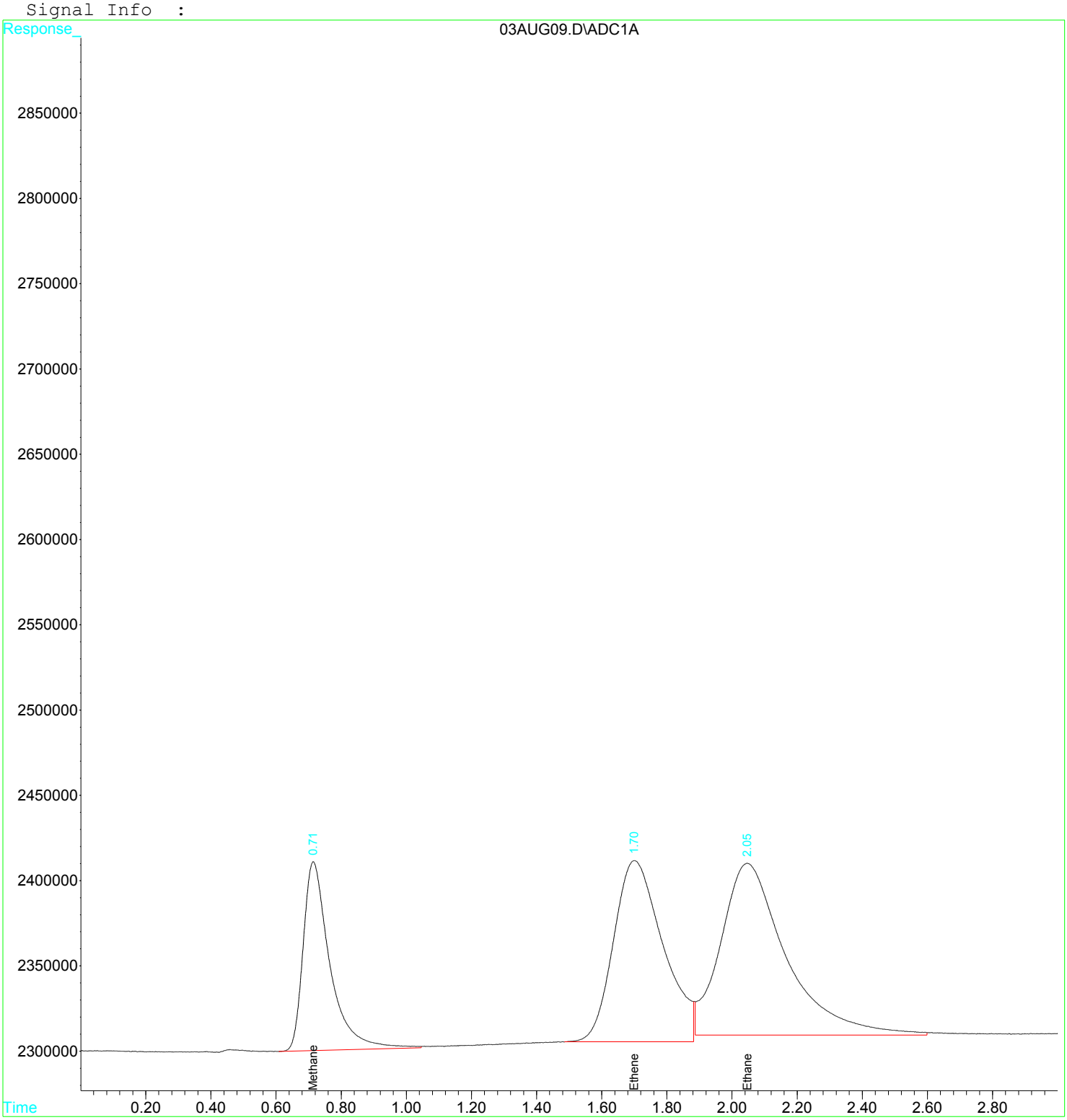
(f)=RT Delta > 1/2 Window (m)=manual int

Quantitation Report

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG09.D Vial: 9
Acq On : 3 Aug 2017 8:04 am Operator: JH2
Sample : B[H0091-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 14:00 2017 Quant Results File: RSK175.RES

Quant Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration
DataAcq Meth : RSK175.M

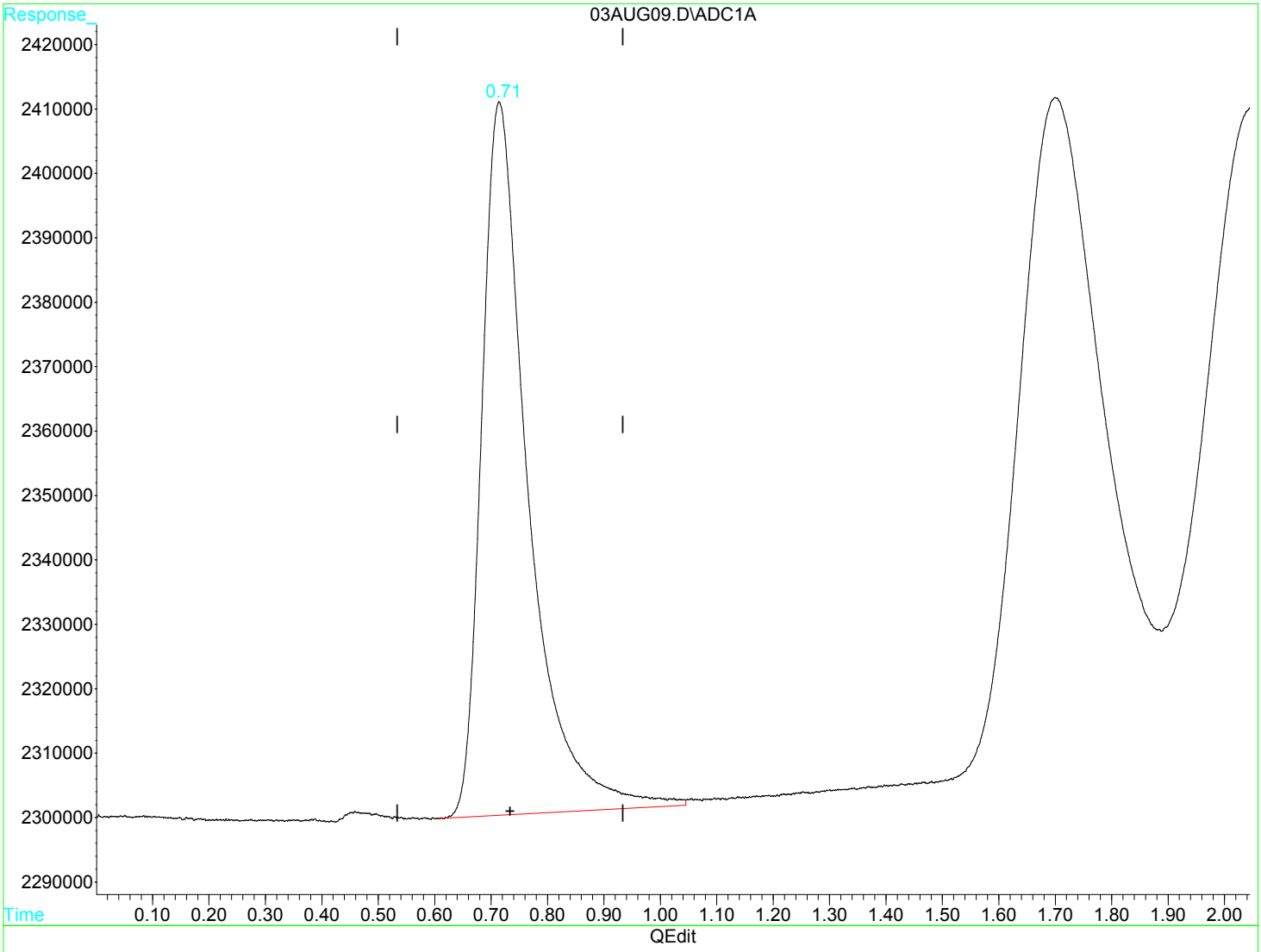
Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG09.D Vial: 9
Acq On : 3 Aug 2017 8:04 am Operator: JH2
Sample : B[H0091-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 8:07 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(1) Methane (m)

0.71min 10.456ug/L

response 6328736

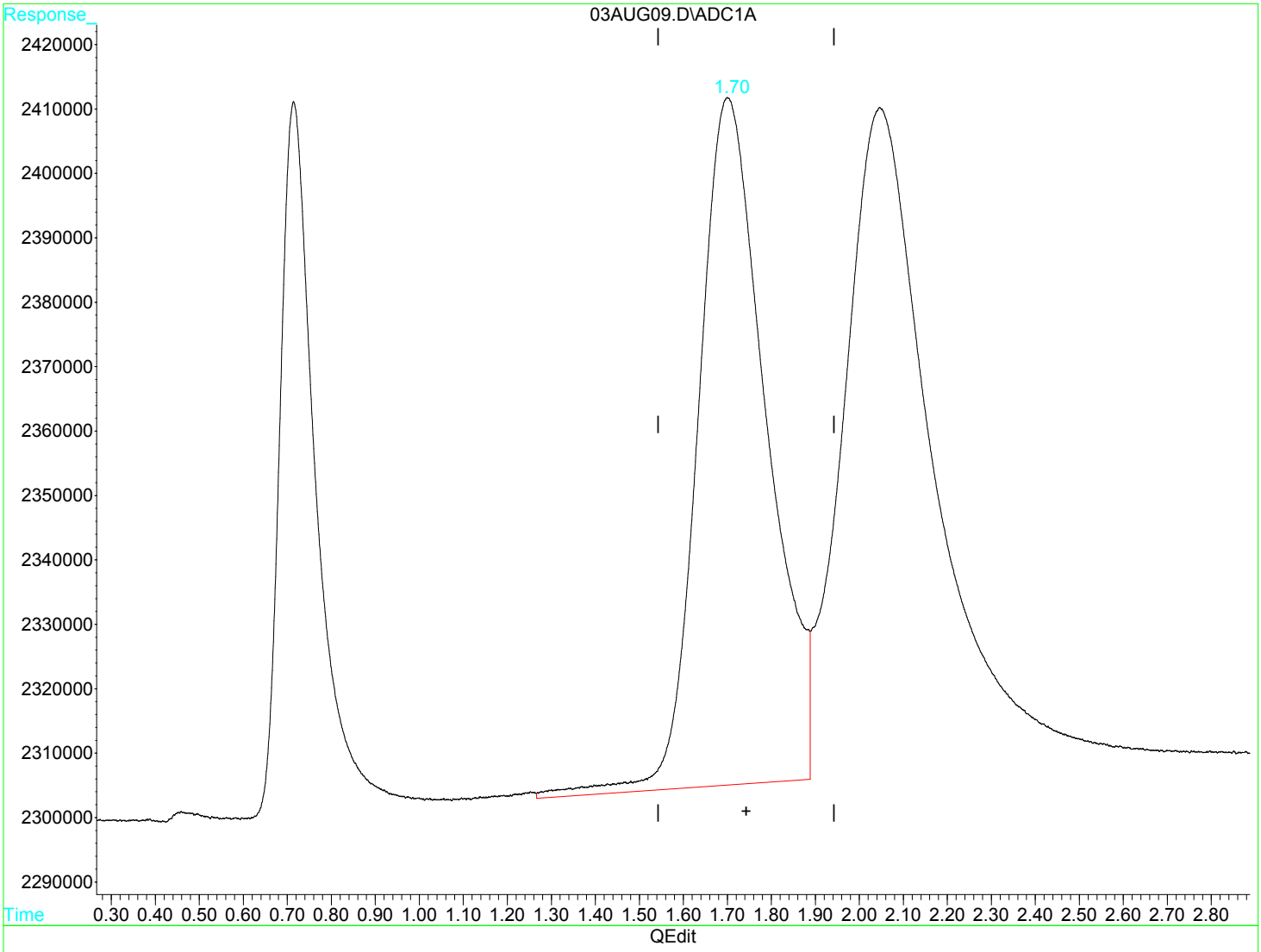
(+) = Expected Retention Time

03AUG09.D RSK175.M Thu Aug 03 13:59:00 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG09.D Vial: 9
Acq On : 3 Aug 2017 8:04 am Operator: JH2
Sample : B[H0091-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 8:07 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.70min 28.699ug/L

response 11550534

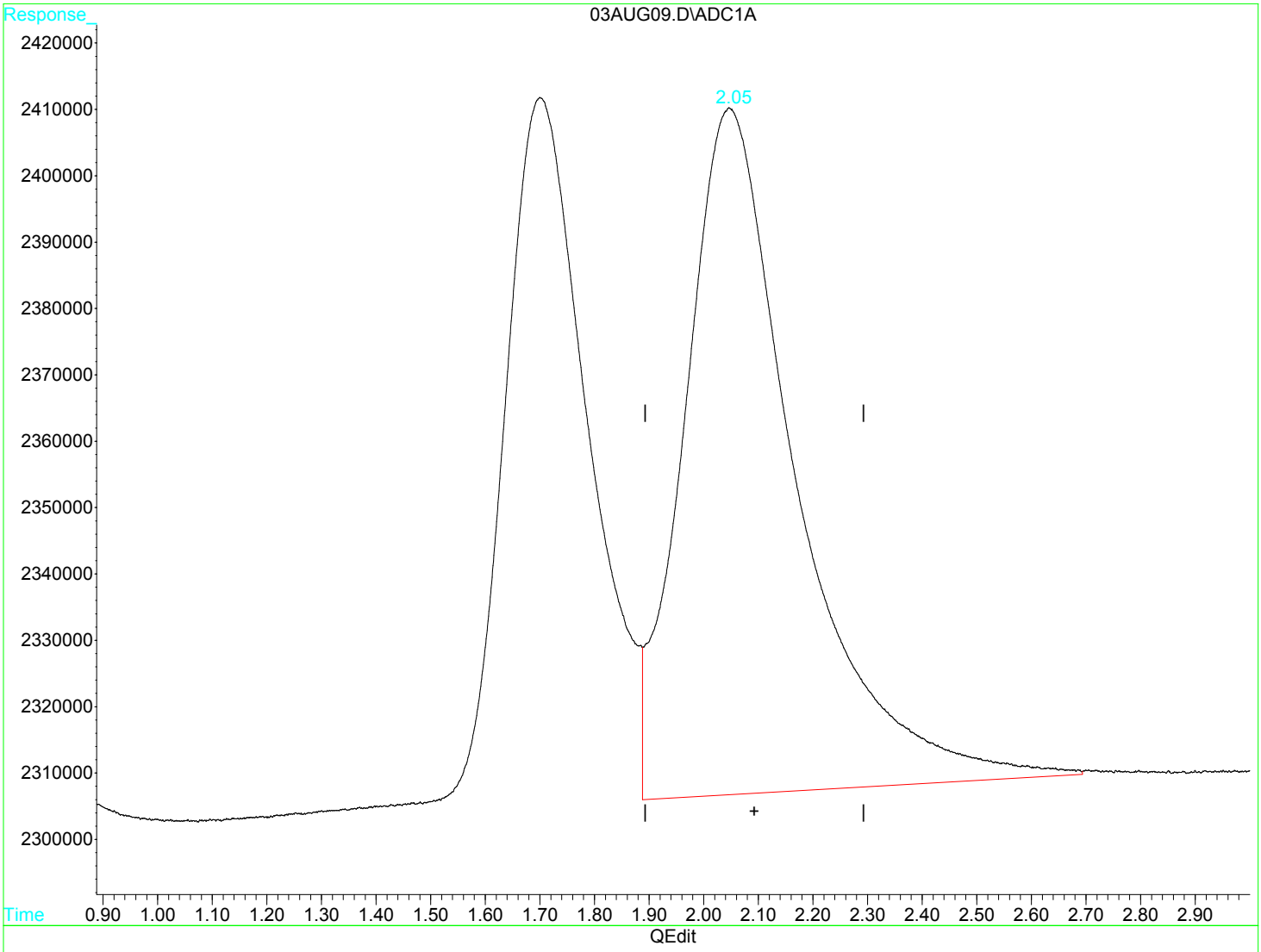
(+) = Expected Retention Time

03AUG09.D RSK175.M Thu Aug 03 13:59:09 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG09.D Vial: 9
Acq On : 3 Aug 2017 8:04 am Operator: JH2
Sample : B[H0091-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 8:07 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.05min 25.521ug/L

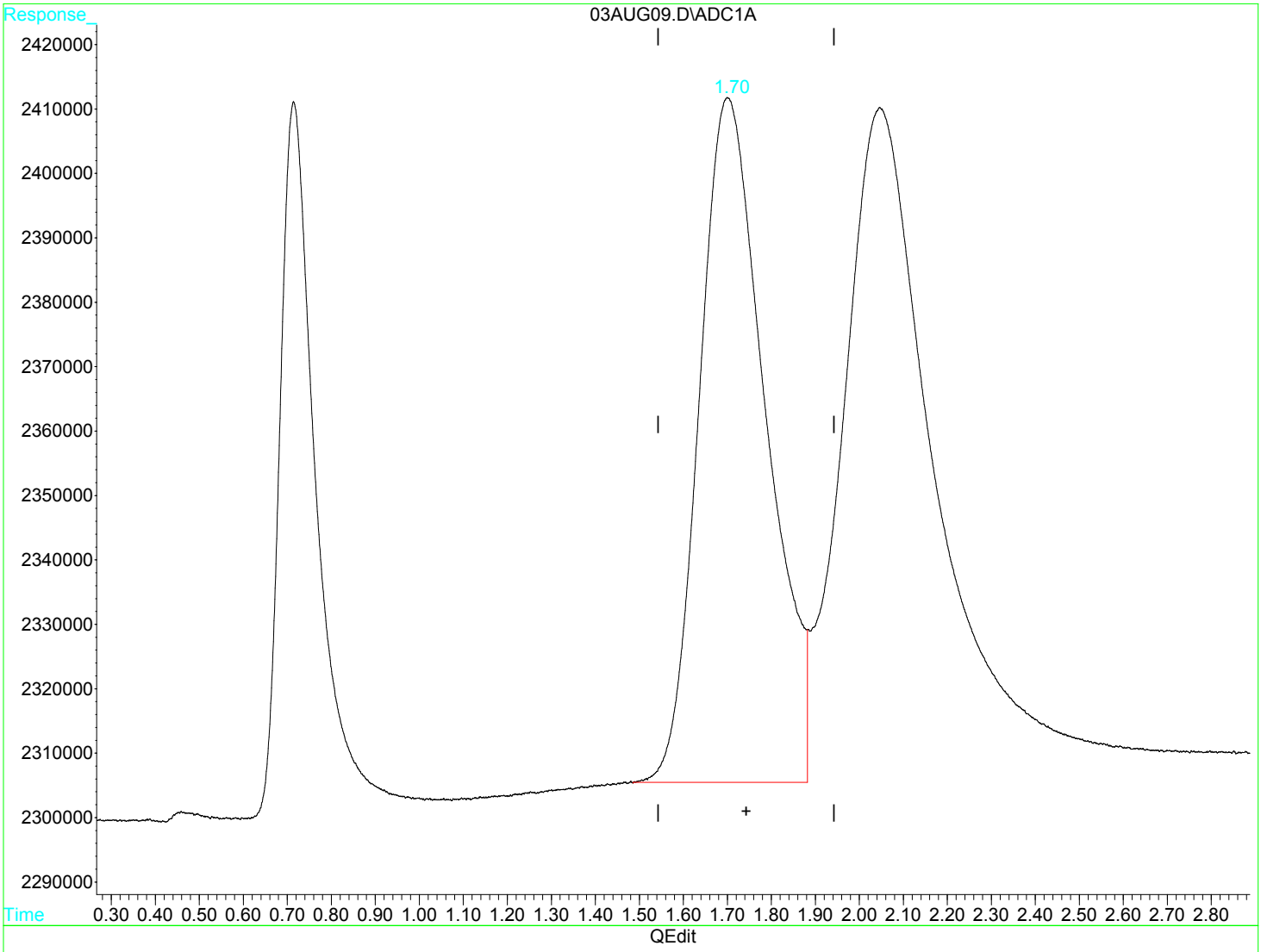
response 14825476

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG09.D Vial: 9
Acq On : 3 Aug 2017 8:04 am Operator: JH2
Sample : B[H0091-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 8:07 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(2) Ethene (m)

1.70min 27.844ug/L m

response 11206490

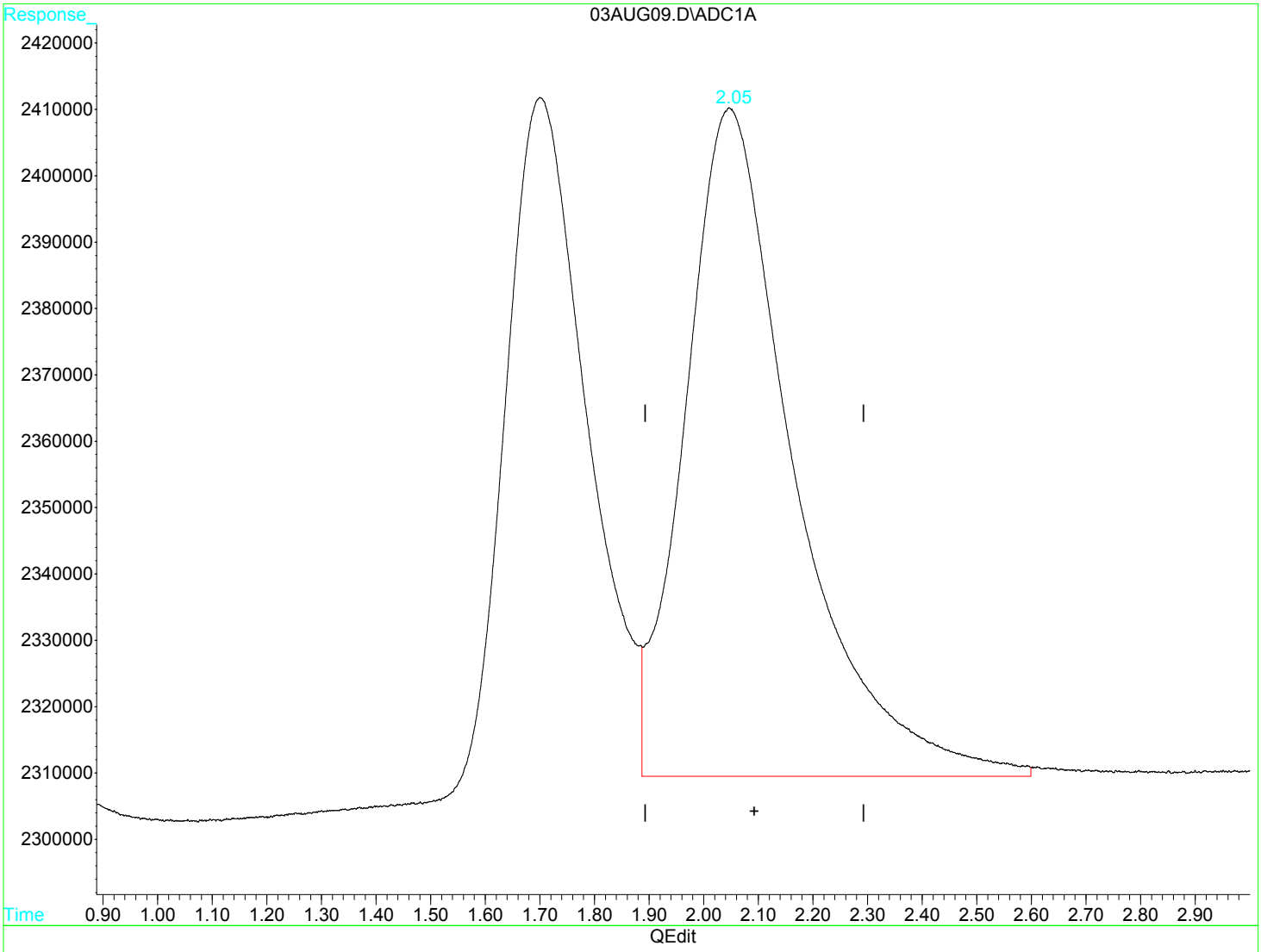
(+) = Expected Retention Time

03AUG09.D RSK175.M Thu Aug 03 13:59:15 2017 MSD1

Quantitation Report (Qedit)

Data File : D:\GC-V1\2017\AUG2017\AUG03\03AUG09.D Vial: 9
Acq On : 3 Aug 2017 8:04 am Operator: JH2
Sample : B[H0091-BSD1 Inst : GC-V1
Misc : 1 He RSK-175 250uL VOC-17-1064 Multiplr: 1.00
IntFile : AUTOINT1.E
Quant Time: Aug 3 8:07 2017 Quant Results File: RSK175.RES

Method : C:\HPCHEM\3\METHODS\RSK175.M (Chemstation Integrator)
Title : RSK-175 Dissolved gases in water
Last Update : Fri Jan 27 08:38:28 2017
Response via : Multiple Level Calibration



(3) Ethane (m)

2.05min 24.097ug/L m

response 13998152

(+) = Expected Retention Time

03AUG09.D RSK175.M Thu Aug 03 14:00:03 2017 MSD1

Raw Data - Batch Information

PREPARATION BENCH SHEET

B[H0090

BC Laboratories

Printed: 8/22/2017 1:10:14PM

Matrix: Water

Prepared using: Volatiles - GC - RSK-175M

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720079-01 A	gRSK175 Diss Methane	8/1/2017 2:06PM	JH2	1	1					
1720080-01 A	gRSK175 Diss Methane	8/1/2017 2:06PM	JH2	1	1					
1720121-01 A	gmRSK175 Diss Methane, Etha	8/1/2017 2:06PM	JH2	1	1					
1720122-03 A	gmRSK175 Diss Methane, Etha	8/1/2017 2:06PM	JH2	1	1					
1720122-04 A	gmRSK175 Diss Methane, Etha	8/1/2017 2:06PM	JH2	1	1					
1720122-05 A	gmRSK175 Diss Methane, Etha	8/1/2017 2:06PM	JH2	1	1					
1720122-06 A	gmRSK175 Diss Methane, Etha	8/1/2017 2:06PM	JH2	1	1					
B[H0090-BLK1	QC	8/1/2017 2:06PM	JH2	1	1					
B[H0090-BS1	QC	8/1/2017 2:06PM	JH2	1	1	7B07033		1000		
B[H0090-BSD1	QC	8/1/2017 2:06PM	JH2	1	1	7B07033		1000		

Spike Mixes	Description	Solvent	Prepared	Expires
7B07033	RSK-175M Spike	Helium	1/27/2017 by zzzJacob Hernand	1/27/2018

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[H0091

BC Laboratories

Printed: 8/22/2017 1:10:14PM

Matrix: Water

Prepared using: Volatiles - GC - RSK-175M

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720121-03 A	gmRSK175 Diss Methane, Etha	8/1/2017 2:08PM	JH2	1	1					
1720121-06 A	gmRSK175 Diss Methane, Etha	8/1/2017 2:08PM	JH2	1	1					
1720121-07 A	gmRSK175 Diss Methane, Etha	8/1/2017 2:08PM	JH2	1	1					
1720121-08 A	gmRSK175 Diss Methane, Etha	8/1/2017 2:08PM	JH2	1	1					
1720121-09 A	gmRSK175 Diss Methane, Etha	8/1/2017 2:08PM	JH2	1	1					
1720121-10 A	gmRSK175 Diss Methane, Etha	8/1/2017 2:08PM	JH2	1	1					
1720121-11 A	gmRSK175 Diss Methane, Etha	8/1/2017 2:08PM	JH2	1	1					
1720121-12 A	gmRSK175 Diss Methane, Etha	8/1/2017 2:08PM	JH2	1	1					
1720121-13 A	gmRSK175 Diss Methane, Etha	8/1/2017 2:08PM	JH2	1	1					
1720121-14 A	gmRSK175 Diss Methane, Etha	8/1/2017 2:08PM	JH2	1	1					
B[H0091-BLK1	QC	8/1/2017 2:08PM	JH2	1	1					
B[H0091-BS1	QC	8/1/2017 2:08PM	JH2	1	1	7B07033		1000		
B[H0091-BSD1	QC	8/1/2017 2:08PM	JH2	1	1	7B07033		1000		

Spike Mixes	Description	Solvent	Prepared	Expires
7B07033	RSK-175M Spike	Helium	1/27/2017 by zzzJacob Hernand	1/27/2018

Raw Data - Sequence Information

ANALYSIS SEQUENCE

1701454

Instrument: GC-V1
Calibration ID: 1702007
Sequence Date: 01/27/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1701454-CAL1	QC		1		7B07021		
1701454-CAL2	QC		2		7B07022		
1701454-CAL3	QC		3		7B07023		
1701454-CAL4	QC		4		7B07024		
1701454-ICV1	QC		5		7B07025		
1701454-ICB1	QC		6		7B07026		

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713689

Instrument: GC-V1
Calibration ID: 1702007
Sequence Date: 08/03/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713689-ICV1	QC		1		7B07022		
1713689-ICB1	QC		2		7B07026		
1713689-CCV1	QC		3		7D17080		
1713689-CCB1	QC		4		6A07009		
B[H0090-BLK1	QC		5				
B[H0090-BS1	QC		6				
B[H0090-BSD1	QC		7				
B[H0091-BLK1	QC		8				
B[H0091-BS1	QC		9				
B[H0091-BSD1	QC		10				
1713689-CCV2	QC		11		7D17080		
1713689-CCB2	QC		12		6A07009		
1720121-03	gmRSK175 Diss Methane, Ethan	A	13				
1720121-06	gmRSK175 Diss Methane, Ethan	A	14				
1720121-07	gmRSK175 Diss Methane, Ethan	A	15				
1720121-08	gmRSK175 Diss Methane, Ethan	A	16				
1720121-09	gmRSK175 Diss Methane, Ethan	A	17				
1720121-10	gmRSK175 Diss Methane, Ethan	A	18				
1713689-CCV3	QC		19		7D17080		
1713689-CCB3	QC		20		6A07009		
1720121-11	gmRSK175 Diss Methane, Ethan	A	21				
1720121-12	gmRSK175 Diss Methane, Ethan	A	22				
1720121-13	gmRSK175 Diss Methane, Ethan	A	23				
1720121-14	gmRSK175 Diss Methane, Ethan	A	24				
1720121-01	gmRSK175 Diss Methane, Ethan	A	25				
1720122-03	gmRSK175 Diss Methane, Ethan	A	26				
1720122-04	gmRSK175 Diss Methane, Ethan	A	27				
1720122-05	gmRSK175 Diss Methane, Ethan	A	28				
1720122-06	gmRSK175 Diss Methane, Ethan	A	29				
1713689-CCV4	QC		30		7D17080		
1713689-CCB4	QC		31		6A07009		
1720079-01	gRSK175 Diss Methane	A	32				
1720080-01	gRSK175 Diss Methane	A	33				
1713689-CCV5	QC		34		7D17080		
1713689-CCB5	QC		35		6A07009		

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-20121**
Class: **VOA**
Method: **EPA-8260B**

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSES DATA PACKAGE COVER PAGE

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
15-MW1_170721	1720121-01
15-MW2_170721	1720121-02
15-MW3_170721	1720121-03
27EW-15_170721	1720121-04
27MW02_170721	1720121-05
27MW03_170721	1720121-06
27MW04_170721	1720121-07
27MW10_170721	1720121-08
27MW11_170721	1720121-09
27MW12_170721	1720121-10
M14-15_170721	1720121-11
M14-16_170721	1720121-12
27EW-12_170721	1720121-13
27MW13_170721	1720121-14
EB19_170721	1720121-15
EB20_170721	1720121-16
EB21_170721	1720121-17

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 08-22-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: MS-V5

Analyte	DL	LOD	LOQ	Units
Benzene	0.083	0.16	0.50	ug/L
Bromobenzene	0.13	0.16	0.50	ug/L
Bromochloromethane	0.24	0.30	1.0	ug/L
Bromodichloromethane	0.14	0.30	0.50	ug/L
Bromoform	0.27	0.30	0.60	ug/L
Bromomethane	0.25	0.25	0.60	ug/L
n-Butylbenzene	0.11	0.16	0.50	ug/L
sec-Butylbenzene	0.15	0.16	0.50	ug/L
tert-Butylbenzene	0.13	0.16	0.50	ug/L
Carbon tetrachloride	0.18	0.20	0.50	ug/L
Chlorobenzene	0.093	0.16	0.50	ug/L
Chloroethane	0.14	0.16	0.50	ug/L
Chloroform	0.12	0.16	0.50	ug/L
Chloromethane	0.14	0.16	0.50	ug/L
2-Chlorotoluene	0.20	0.20	0.50	ug/L
4-Chlorotoluene	0.15	0.16	0.50	ug/L
Dibromochloromethane	0.13	0.16	0.50	ug/L
1,2-Dibromo-3-chloropropane	0.44	0.50	1.0	ug/L
1,2-Dibromoethane	0.16	0.16	0.50	ug/L
Dibromomethane	0.24	0.30	1.0	ug/L
1,2-Dichlorobenzene	0.072	0.16	0.50	ug/L
1,3-Dichlorobenzene	0.15	0.16	0.50	ug/L
1,4-Dichlorobenzene	0.062	0.16	0.50	ug/L
Dichlorodifluoromethane	0.099	0.16	0.50	ug/L
1,1-Dichloroethane	0.11	0.16	0.50	ug/L
1,2-Dichloroethane	0.17	0.20	0.50	ug/L
1,1-Dichloroethene	0.18	0.20	0.50	ug/L
cis-1,2-Dichloroethene	0.085	0.16	0.50	ug/L
trans-1,2-Dichloroethene	0.15	0.16	0.50	ug/L
1,2-Dichloropropane	0.13	0.16	0.50	ug/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: MS-V5

Analyte	DL	LOD	LOQ	Units
1,3-Dichloropropane	0.086	0.16	0.50	ug/L
2,2-Dichloropropane	0.13	0.16	0.50	ug/L
1,1-Dichloropropene	0.085	0.16	0.50	ug/L
cis-1,3-Dichloropropene	0.14	0.16	0.50	ug/L
trans-1,3-Dichloropropene	0.079	0.16	0.50	ug/L
Ethylbenzene	0.098	0.16	0.50	ug/L
Hexachlorobutadiene	0.17	0.20	0.50	ug/L
Isopropylbenzene	0.14	0.16	0.50	ug/L
p-Isopropyltoluene	0.12	0.16	0.50	ug/L
Methylene chloride	0.48	0.50	1.0	ug/L
Methyl t-butyl ether	0.11	0.16	0.50	ug/L
Naphthalene	0.36	0.40	0.50	ug/L
n-Propylbenzene	0.11	0.16	0.50	ug/L
Styrene	0.068	0.16	0.50	ug/L
1,1,1,2-Tetrachloroethane	0.18	0.20	0.50	ug/L
1,1,2,2-Tetrachloroethane	0.17	0.20	0.50	ug/L
Tetrachloroethene	0.13	0.16	0.50	ug/L
Toluene	0.093	0.16	0.50	ug/L
1,2,3-Trichlorobenzene	0.16	0.16	0.50	ug/L
1,2,4-Trichlorobenzene	0.19	0.20	0.50	ug/L
1,1,1-Trichloroethane	0.11	0.16	0.50	ug/L
1,1,2-Trichloroethane	0.16	0.16	0.50	ug/L
Trichloroethene	0.085	0.16	0.50	ug/L
Trichlorofluoromethane	0.13	0.16	0.50	ug/L
1,2,3-Trichloropropane	0.24	0.33	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	0.15	0.16	0.50	ug/L
1,2,4-Trimethylbenzene	0.12	0.16	0.50	ug/L
1,3,5-Trimethylbenzene	0.12	0.16	0.50	ug/L
Vinyl chloride	0.12	0.16	0.50	ug/L
Total Xylenes	0.36	0.46	1.0	ug/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: MS-V5

Analyte	DL	LOD	LOQ	Units
Acetone	4.6	5.0	10	ug/L
Acetonitrile	5.5	6.0	10	ug/L
Allyl chloride	0.80	1.0	5.0	ug/L
t-Amyl Methyl ether	0.25	0.30	0.50	ug/L
Benzyl chloride	0.60	0.60	1.0	ug/L
t-Butyl alcohol	9.4	10	12	ug/L
Carbon disulfide	0.38	0.40	1.0	ug/L
Chloroprene	0.37	1.0	5.0	ug/L
Diisopropyl ether	0.23	0.30	0.50	ug/L
Ethyl t-butyl ether	0.18	0.20	0.50	ug/L
2-Hexanone	3.4	4.0	10	ug/L
Methyl ethyl ketone	2.5	3.0	10	ug/L
Methyl isobutyl ketone	2.1	3.0	10	ug/L
Vinyl acetate	1.8	6.0	20	ug/L
p- & m-Xylenes	0.28	0.30	0.50	ug/L
o-Xylene	0.082	0.16	0.50	ug/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

15-MW1_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-01
File ID: 25JUL63.D
Sampled: 07/21/17 08:30
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 05:26
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

15-MW1_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-01
File ID: 25JUL63.D
Sampled: 07/21/17 08:30
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 05:26
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.19	0.085	0.16	0.50	J
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.52	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

15-MW1_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-01		File ID:	25JUL63.D	
Sampled:	07/21/17 08:30	Prepared:	07/25/17 07:46		Analyzed:	07/26/17 05:26	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.260	103	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8700	98.7	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.7700	97.7	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	178738	6.58	170638	6.58	
Chlorobenzene-d5 (IS)	72996	9.61	69001	9.62	
1,4-Difluorobenzene (IS)	268816	7.38	257374	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

15-MW2_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-02
File ID: 25JUL48.D
Sampled: 07/21/17 10:20
Prepared: 07/25/17 07:46
Analyzed: 07/25/17 23:42
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.43	0.085	0.16	0.50	J
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

15-MW2_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-02
File ID: 25JUL48.D
Sampled: 07/21/17 10:20
Prepared: 07/25/17 07:46
Analyzed: 07/25/17 23:42
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.35	0.13	0.16	0.50	J
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.99	0.085	0.16	0.50	
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

15-MW2_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-02		File ID:	25JUL48.D	
Sampled:	07/21/17 10:20	Prepared:	07/25/17 07:46		Analyzed:	07/25/17 23:42	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.150	102	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.000	100	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.160	102	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	172504	6.57	183539	6.58	
Chlorobenzene-d5 (IS)	68952	9.62	71623	9.61	
1,4-Difluorobenzene (IS)	263519	7.38	282647	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

15-MW3_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-03
File ID: 25JUL49.D
Sampled: 07/21/17 09:40
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 00:05
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.19	0.11	0.16	0.50	J
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	7.1	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	1.9	0.15	0.16	0.50	
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

15-MW3_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-03
File ID: 25JUL49.D
Sampled: 07/21/17 09:40
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 00:05
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	1.9	0.085	0.16	0.50	
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	31	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

15-MW3_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-03		File ID:	25JUL49.D	
Sampled:	07/21/17 09:40	Prepared:	07/25/17 07:46		Analyzed:	07/26/17 00:05	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.9100	99.1	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8300	98.3	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6800	96.8	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	179151	6.57	183539	6.58	
Chlorobenzene-d5 (IS)	70371	9.61	71623	9.61	
1,4-Difluorobenzene (IS)	266859	7.38	282647	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-15_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-04
File ID: 25JUL50.D
Sampled: 07/21/17 11:40
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 00:28
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	5.2	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	J
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-15_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-04
File ID: 25JUL50.D
Sampled: 07/21/17 11:40
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 00:28
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	1.1	0.13	0.16	0.50	
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	1.4	0.085	0.16	0.50	
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-15_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-04		File ID:	25JUL50.D	
Sampled:	07/21/17 11:40	Prepared:	07/25/17 07:46		Analyzed:	07/26/17 00:28	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.540	105	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9800	99.8	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.8800	98.8	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	171127	6.57	183539	6.58	
Chlorobenzene-d5 (IS)	69962	9.61	71623	9.61	
1,4-Difluorobenzene (IS)	256910	7.38	282647	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW02_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-05
File ID: 25JUL51.D
Sampled: 07/21/17 12:25
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 00:50
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.19	0.085	0.16	0.50	J
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW02_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-05
File ID: 25JUL51.D
Sampled: 07/21/17 12:25
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 00:50
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.62	0.13	0.16	0.50	
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.21	0.085	0.16	0.50	J
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW02_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-05			File ID:	25JUL51.D
Sampled:	07/21/17 12:25	Prepared:	07/25/17 07:46			Analyzed:	07/26/17 00:50
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.9900	99.9	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7400	97.4	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6400	96.4	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	170003	6.58	183539	6.58	
Chlorobenzene-d5 (IS)	67556	9.62	71623	9.61	
1,4-Difluorobenzene (IS)	254274	7.38	282647	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW03_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-06
File ID: 25JUL52.D
Sampled: 07/21/17 09:20
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 01:13
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.25	0.11	0.16	0.50	J
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.87	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.22	0.15	0.16	0.50	J
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW03_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-06			File ID:	25JUL52.D
Sampled:	07/21/17 09:20	Prepared:	07/25/17 07:46			Analyzed:	07/26/17 01:13
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.56	0.11	0.16	0.50	
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW03_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-06		File ID:	25JUL52.D	
Sampled:	07/21/17 09:20	Prepared:	07/25/17 07:46		Analyzed:	07/26/17 01:13	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.230	102	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7700	97.7	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.2600	92.6	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	166659	6.57	183539	6.58	
Chlorobenzene-d5 (IS)	68139	9.61	71623	9.61	
1,4-Difluorobenzene (IS)	247952	7.38	282647	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW04_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-07
File ID: 25JUL53.D
Sampled: 07/21/17 11:45
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 01:36
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW04_170721

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	1720121-07	File ID:	25JUL53.D
Sampled:	07/21/17 11:45	Prepared:	07/25/17 07:46	Analyzed:	07/26/17 01:36
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW04_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-07			File ID:	25JUL53.D
Sampled:	07/21/17 11:45	Prepared:	07/25/17 07:46			Analyzed:	07/26/17 01:36
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.550	106	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.010	100	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6200	96.2	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	176838	6.57	183539	6.58	
Chlorobenzene-d5 (IS)	72374	9.61	71623	9.61	
1,4-Difluorobenzene (IS)	262621	7.38	282647	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW10_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-08
File ID: 25JUL54.D
Sampled: 07/21/17 10:26
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 01:59
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.22	0.085	0.16	0.50	J
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW10_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-08			File ID:	25JUL54.D
Sampled:	07/21/17 10:26	Prepared:	07/25/17 07:46			Analyzed:	07/26/17 01:59
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW10_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-08		File ID:	25JUL54.D	
Sampled:	07/21/17 10:26	Prepared:	07/25/17 07:46		Analyzed:	07/26/17 01:59	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.610	106	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.6300	96.3	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.6300	96.3	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	171091	6.57	183539	6.58	
Chlorobenzene-d5 (IS)	67292	9.62	71623	9.61	
1,4-Difluorobenzene (IS)	260524	7.38	282647	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW11_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-09
File ID: 25JUL55.D
Sampled: 07/21/17 10:50
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 02:22
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.49	0.085	0.16	0.50	J
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW11_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-09			File ID:	25JUL55.D
Sampled:	07/21/17 10:50	Prepared:	07/25/17 07:46			Analyzed:	07/26/17 02:22
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.64	0.36	0.40	0.50	
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.24	0.12	0.16	0.50	J
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	2.5	0.38	0.40	1.0	
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW11_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-09			File ID:	25JUL55.D
Sampled:	07/21/17 10:50	Prepared:	07/25/17 07:46			Analyzed:	07/26/17 02:22
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.8200	98.2	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7900	97.9	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.030	100	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	166085	6.57	183539	6.58	
Chlorobenzene-d5 (IS)	63437	9.62	71623	9.61	
1,4-Difluorobenzene (IS)	243804	7.38	282647	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW12_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-10
File ID: 25JUL83.D
Sampled: 07/21/17 11:35
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 13:06
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.27	0.085	0.16	0.50	J
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW12_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-10			File ID:	25JUL83.D
Sampled:	07/21/17 11:35	Prepared:	07/25/17 07:46			Analyzed:	07/26/17 13:06
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.41	0.085	0.16	0.50	J
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW12_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-10		File ID:	25JUL83.D	
Sampled:	07/21/17 11:35	Prepared:	07/25/17 07:46		Analyzed:	07/26/17 13:06	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.9700	99.7	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7700	97.7	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.8900	98.9	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	173348	6.58	170638	6.58	
Chlorobenzene-d5 (IS)	68168	9.62	69001	9.62	
1,4-Difluorobenzene (IS)	256741	7.38	257374	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-15_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-11
File ID: 25JUL84.D
Sampled: 07/21/17 08:20
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 13:29
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.63	0.083	0.16	0.50	
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	5.6	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	57	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.76	0.15	0.16	0.50	
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-15_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-11
File ID: 25JUL84.D
Sampled: 07/21/17 08:20
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 13:29
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713088
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	53	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-15_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-11			File ID:	25JUL84.D
Sampled:	07/21/17 08:20	Prepared:	07/25/17 07:46			Analyzed:	07/26/17 13:29
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.240	102	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.6800	96.8	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.5600	95.6	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	169045	6.57	170638	6.58	
Chlorobenzene-d5 (IS)	67984	9.62	69001	9.62	
1,4-Difluorobenzene (IS)	253846	7.38	257374	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-16_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-12
File ID: 26JUL13.D
Sampled: 07/21/17 09:15
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 18:28
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713164
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	1.4	0.11	0.16	0.50	
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	24	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.53	0.15	0.16	0.50	
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-16_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-12
File ID: 26JUL13.D
Sampled: 07/21/17 09:15
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 18:28
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713164
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.90	0.12	0.16	0.50	
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

M14-16_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-12		File ID:	26JUL13.D	
Sampled:	07/21/17 09:15	Prepared:	07/25/17 07:46		Analyzed:	07/26/17 18:28	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G2094	Sequence:	1713164	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.660	107	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.5600	95.6	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.090	101	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	167867	6.57	151381	6.58	
Chlorobenzene-d5 (IS)	68013	9.61	62028	9.61	
1,4-Difluorobenzene (IS)	260864	7.38	227574	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-12_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-13
File ID: 26JUL14.D
Sampled: 07/21/17 12:56
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 18:51
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713164
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	2.7	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-12_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-13
File ID: 26JUL14.D
Sampled: 07/21/17 12:56
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 18:51
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713164
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.21	0.085	0.16	0.50	J
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.22	0.12	0.16	0.50	J
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27EW-12_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-13	File ID:	26JUL14.D		
Sampled:	07/21/17 12:56	Prepared:	07/25/17 07:46	Analyzed:	07/26/17 18:51		
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml		
Batch:	B[G2094	Sequence:	1713164	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.9400	99.4	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.6300	96.3	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.8900	98.9	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	169471	6.58	151381	6.58	
Chlorobenzene-d5 (IS)	67762	9.61	62028	9.61	
1,4-Difluorobenzene (IS)	255997	7.38	227574	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW13_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-14
File ID: 26JUL15.D
Sampled: 07/21/17 13:10
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 19:14
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713164
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.41	0.085	0.16	0.50	J
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW13_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-14			File ID:	26JUL15.D
Sampled:	07/21/17 13:10	Prepared:	07/25/17 07:46			Analyzed:	07/26/17 19:14
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[G2094	Sequence:	1713164	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

27MW13_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-14			File ID:	26JUL15.D
Sampled:	07/21/17 13:10	Prepared:	07/25/17 07:46			Analyzed:	07/26/17 19:14
Solids:		Preparation:	EPA 5030 Water MS			Initial/Final:	25 ml / 25 ml
Batch:	B[G2094	Sequence:	1713164	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.200	102	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.8100	98.1	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.8400	98.4	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	157906	6.58	151381	6.58	
Chlorobenzene-d5 (IS)	65286	9.61	62028	9.61	
1,4-Difluorobenzene (IS)	238702	7.38	227574	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB19_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-15
File ID: 26JUL16.D
Sampled: 07/21/17 14:20
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 19:37
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713164
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB19_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-15
File ID: 26JUL16.D
Sampled: 07/21/17 14:20
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 19:37
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713164
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB19_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-15		File ID:	26JUL16.D	
Sampled:	07/21/17 14:20	Prepared:	07/25/17 07:46		Analyzed:	07/26/17 19:37	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G2094	Sequence:	1713164	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.270	103	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7700	97.7	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.9700	99.7	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	173601	6.58	151381	6.58	
Chlorobenzene-d5 (IS)	67241	9.62	62028	9.61	
1,4-Difluorobenzene (IS)	262730	7.38	227574	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB20_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-16
File ID: 26JUL17.D
Sampled: 07/21/17 14:25
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 20:00
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713164
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB20_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-16
File ID: 26JUL17.D
Sampled: 07/21/17 14:25
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 20:00
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713164
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB20_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-16		File ID:	26JUL17.D	
Sampled:	07/21/17 14:25	Prepared:	07/25/17 07:46		Analyzed:	07/26/17 20:00	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G2094	Sequence:	1713164	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.090	101	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9600	99.6	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.050	100	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	168332	6.57	151381	6.58	
Chlorobenzene-d5 (IS)	66457	9.62	62028	9.61	
1,4-Difluorobenzene (IS)	246124	7.38	227574	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB21_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-17
File ID: 26JUL18.D
Sampled: 07/21/17 14:30
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 20:23
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713164
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	1	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	1	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	1	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	1	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	1	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	1	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	1	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	1	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	1	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	1	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	1	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	1	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.099	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	1	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	1	0.16	0.13	0.16	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB21_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-17
File ID: 26JUL18.D
Sampled: 07/21/17 14:30
Prepared: 07/25/17 07:46
Analyzed: 07/26/17 20:23
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B[G2094
Sequence: 1713164
Calibration: 1707017
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
563-58-6	1,1-Dichloropropene	1	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	1	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	1	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	1	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	1	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	1	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	1	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	1	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	1	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	1	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.20	0.19	0.20	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	1	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	1	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	1	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	1	10	9.4	10	12	U
75-15-0	Carbon disulfide	1	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	1	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	1	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	1	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	1	0.30	0.28	0.30	0.50	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ORGANIC ANALYSIS DATA SHEET
EPA-8260B

EB21_170721

Laboratory:	BC Laboratories			SDG:	17-20121		
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda		
Matrix:	Water	Laboratory ID:	1720121-17		File ID:	26JUL18.D	
Sampled:	07/21/17 14:30	Prepared:	07/25/17 07:46		Analyzed:	07/26/17 20:23	
Solids:		Preparation:	EPA 5030 Water MS		Initial/Final:	25 ml / 25 ml	
Batch:	B[G2094	Sequence:	1713164	Calibration:	1707017	Instrument:	MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
95-47-6	o-Xylene	1	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.290	103	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.7800	97.8	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.010	100	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	163858	6.57	151381	6.58	
Chlorobenzene-d5 (IS)	64829	9.62	62028	9.61	
1,4-Difluorobenzene (IS)	247202	7.38	227574	7.38	

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G2094
Batch Matrix: Water
Preparation: EPA 5030 Water MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
15-MW1_170721	1720121-01	25JUL63.D	07/25/17 07:46	Full SAP LIST
15-MW2_170721	1720121-02	25JUL48.D	07/25/17 07:46	Full SAP LIST
15-MW3_170721	1720121-03	25JUL49.D	07/25/17 07:46	Full SAP LIST
27EW-15_170721	1720121-04	25JUL50.D	07/25/17 07:46	Full SAP LIST
27MW02_170721	1720121-05	25JUL51.D	07/25/17 07:46	Full SAP LIST
27MW03_170721	1720121-06	25JUL52.D	07/25/17 07:46	Full SAP LIST
27MW04_170721	1720121-07	25JUL53.D	07/25/17 07:46	Full SAP LIST
27MW10_170721	1720121-08	25JUL54.D	07/25/17 07:46	Full SAP LIST
27MW11_170721	1720121-09	25JUL55.D	07/25/17 07:46	Full SAP LIST
27MW12_170721	1720121-10	25JUL83.D	07/25/17 07:46	Full SAP LIST
M14-15_170721	1720121-11	25JUL84.D	07/25/17 07:46	Full SAP LIST
M14-16_170721	1720121-12	26JUL13.D	07/25/17 07:46	Full SAP LIST
27EW-12_170721	1720121-13	26JUL14.D	07/25/17 07:46	Full SAP LIST
27MW13_170721	1720121-14	26JUL15.D	07/25/17 07:46	Full SAP LIST
EB19_170721	1720121-15	26JUL16.D	07/25/17 07:46	Full SAP LIST
EB20_170721	1720121-16	26JUL17.D	07/25/17 07:46	Full SAP LIST
EB21_170721	1720121-17	26JUL18.D	07/25/17 07:46	Full SAP LIST
Blank	B[G2094-BLK1	25JUL62.D	07/25/17 07:46	
LCS	B[G2094-BS1	25JUL64.D	07/25/17 07:46	
15-MW1_170721	B[G2094-MS1	25JUL65.D	07/25/17 07:46	
15-MW1_170721	B[G2094-MSD1	25JUL66.D	07/25/17 07:46	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G2094-BLK1	File ID:	25JUL62.D
Prepared:	07/25/17 07:46	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	07/26/17 05:03	Instrument:	MS-V5		
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	0.16	0.083	0.16	0.50	U
108-86-1	Bromobenzene	0.16	0.13	0.16	0.50	U
74-97-5	Bromochloromethane	0.30	0.24	0.30	1.0	U
75-27-4	Bromodichloromethane	0.30	0.14	0.30	0.50	U
75-25-2	Bromoform	0.30	0.27	0.30	0.60	U
74-83-9	Bromomethane	0.25	0.25	0.25	0.60	U
104-51-8	n-Butylbenzene	0.16	0.11	0.16	0.50	U
135-98-8	sec-Butylbenzene	0.16	0.15	0.16	0.50	U
98-06-6	tert-Butylbenzene	0.16	0.13	0.16	0.50	U
56-23-5	Carbon tetrachloride	0.20	0.18	0.20	0.50	U
108-90-7	Chlorobenzene	0.16	0.093	0.16	0.50	U
75-00-3	Chloroethane	0.16	0.14	0.16	0.50	U
67-66-3	Chloroform	0.16	0.12	0.16	0.50	U
74-87-3	Chloromethane	0.16	0.14	0.16	0.50	U
95-49-8	2-Chlorotoluene	0.20	0.20	0.20	0.50	U
106-43-4	4-Chlorotoluene	0.16	0.15	0.16	0.50	U
124-48-1	Dibromochloromethane	0.16	0.13	0.16	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	0.50	0.44	0.50	1.0	U
106-93-4	1,2-Dibromoethane	0.16	0.16	0.16	0.50	U
74-95-3	Dibromomethane	0.30	0.24	0.30	1.0	U
95-50-1	1,2-Dichlorobenzene	0.16	0.072	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	0.16	0.15	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	0.16	0.062	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	0.16	0.099	0.16	0.50	U

AMEC Environmental & Infrastructure-
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Project: Alameda
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Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G2094-BLK1	File ID:	25JUL62.D
Prepared:	07/25/17 07:46	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	07/26/17 05:03	Instrument:	MS-V5		
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
75-34-3	1,1-Dichloroethane	0.16	0.11	0.16	0.50	U
107-06-2	1,2-Dichloroethane	0.20	0.17	0.20	0.50	U
75-35-4	1,1-Dichloroethene	0.20	0.18	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.16	0.15	0.16	0.50	U
78-87-5	1,2-Dichloropropane	0.16	0.13	0.16	0.50	U
142-28-9	1,3-Dichloropropane	0.16	0.086	0.16	0.50	U
594-20-7	2,2-Dichloropropane	0.16	0.13	0.16	0.50	U
563-58-6	1,1-Dichloropropene	0.16	0.085	0.16	0.50	U
100-41-4	Ethylbenzene	0.16	0.098	0.16	0.50	U
87-68-3	Hexachlorobutadiene	0.20	0.17	0.20	0.50	U
98-82-8	Isopropylbenzene	0.16	0.14	0.16	0.50	U
99-87-6	p-Isopropyltoluene	0.16	0.12	0.16	0.50	U
75-09-2	Methylene chloride	0.50	0.48	0.50	1.0	U
1634-04-4	Methyl t-butyl ether	0.16	0.11	0.16	0.50	U
91-20-3	Naphthalene	0.40	0.36	0.40	0.50	U
103-65-1	n-Propylbenzene	0.16	0.11	0.16	0.50	U
100-42-5	Styrene	0.16	0.068	0.16	0.50	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	0.18	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.20	0.17	0.20	0.50	U
127-18-4	Tetrachloroethene	0.16	0.13	0.16	0.50	U
108-88-3	Toluene	0.16	0.093	0.16	0.50	U
87-61-6	1,2,3-Trichlorobenzene	0.16	0.16	0.16	0.50	U
120-82-1	1,2,4-Trichlorobenzene	0.20	0.19	0.20	0.50	U

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G2094-BLK1	File ID:	25JUL62.D
Prepared:	07/25/17 07:46	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	07/26/17 05:03	Instrument:	MS-V5		
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-55-6	1,1,1-Trichloroethane	0.16	0.11	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	0.16	0.16	0.16	0.50	U
79-01-6	Trichloroethene	0.16	0.085	0.16	0.50	U
75-69-4	Trichlorofluoromethane	0.16	0.13	0.16	0.50	U
96-18-4	1,2,3-Trichloropropane	0.33	0.24	0.33	0.50	U
95-63-6	1,2,4-Trimethylbenzene	0.16	0.12	0.16	0.50	U
108-67-8	1,3,5-Trimethylbenzene	0.16	0.12	0.16	0.50	U
75-01-4	Vinyl chloride	0.16	0.12	0.16	0.50	U
67-64-1	Acetone	5.0	4.6	5.0	10	U
994-05-8	t-Amyl Methyl ether	0.30	0.25	0.30	0.50	U
75-65-0	t-Butyl alcohol	10	9.4	10	12	U
75-15-0	Carbon disulfide	0.40	0.38	0.40	1.0	U
108-20-3	Diisopropyl ether	0.30	0.23	0.30	0.50	U
637-92-3	Ethyl t-butyl ether	0.20	0.18	0.20	0.50	U
78-93-3	Methyl ethyl ketone	3.0	2.5	3.0	10	U
179601-23-1	p- & m-Xylenes	0.30	0.28	0.30	0.50	U
95-47-6	o-Xylene	0.16	0.082	0.16	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.9300	99.3	81 - 118	
Toluene-d8 (Surrogate)	10.000	9.9900	99.9	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	10.090	101	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	179365	6.58	170638	6.58	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-8260B

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G2094-BLK1	File ID:	25JUL62.D
Prepared:	07/25/17 07:46	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	07/26/17 05:03	Instrument:	MS-V5		
Batch:	B[G2094	Sequence:	1713088	Calibration:	1707017

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Chlorobenzene-d5 (IS)	69556	9.62	69001	9.62	
1,4-Difluorobenzene (IS)	262221	7.38	257374	7.38	

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Project: Alameda
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Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

15-MW1_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2094
Laboratory ID: B[G2094-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1720121-01

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Benzene	25.000	ND	23.430	93.7	79 - 120
Bromobenzene	25.000	ND	24.530	98.1	80 - 120
Bromochloromethane	25.000	ND	22.950	91.8	78 - 123
Bromodichloromethane	25.000	ND	23.570	94.3	79 - 125
Bromoform	25.000	ND	25.260	101	66 - 130
Bromomethane	25.000	ND	18.810	75.2	53 - 141
n-Butylbenzene	25.000	ND	23.550	94.2	75 - 128
sec-Butylbenzene	25.000	ND	24.980	99.9	77 - 126
tert-Butylbenzene	25.000	ND	24.090	96.4	78 - 124
Carbon tetrachloride	25.000	ND	25.720	103	72 - 136
Chlorobenzene	25.000	ND	21.840	87.4	82 - 118
Chloroethane	25.000	ND	22.720	90.9	60 - 138
Chloroform	25.000	ND	23.120	92.5	79 - 124
Chloromethane	25.000	ND	18.740	75.0	50 - 139
2-Chlorotoluene	25.000	ND	22.950	91.8	79 - 122
4-Chlorotoluene	25.000	ND	22.620	90.5	78 - 122
Dibromochloromethane	25.000	ND	24.660	98.6	74 - 126
1,2-Dibromo-3-chloropropane	25.000	ND	24.250	97.0	62 - 128
1,2-Dibromoethane	25.000	ND	23.260	93.0	77 - 121
Dibromomethane	25.000	ND	23.730	94.9	79 - 123
1,2-Dichlorobenzene	25.000	ND	22.240	89.0	80 - 119
1,3-Dichlorobenzene	25.000	ND	22.950	91.8	80 - 119
1,4-Dichlorobenzene	25.000	ND	22.830	91.3	79 - 118
Dichlorodifluoromethane	25.000	ND	23.950	95.8	32 - 152
1,1-Dichloroethane	25.000	0.15000	23.790	94.6	77 - 125

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Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

15-MW1_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2094
Laboratory ID: B[G2094-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1720121-01

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,2-Dichloroethane	25.000	ND	23.030	92.1	73 - 128
1,1-Dichloroethene	25.000	ND	25.500	102	71 - 131
cis-1,2-Dichloroethene	25.000	0.12000	24.360	97.0	78 - 123
trans-1,2-Dichloroethene	25.000	ND	24.880	99.5	75 - 124
1,2-Dichloropropane	25.000	ND	22.270	89.1	78 - 122
1,3-Dichloropropane	25.000	ND	22.390	89.6	80 - 119
2,2-Dichloropropane	25.000	ND	26.250	105	60 - 139
1,1-Dichloropropene	25.000	ND	23.050	92.2	79 - 125
cis-1,3-Dichloropropene	25.000	ND	24.290	97.2	75 - 124
trans-1,3-Dichloropropene	25.000	ND	24.740	99.0	73 - 127
Ethylbenzene	25.000	ND	24.360	97.4	79 - 121
Hexachlorobutadiene	25.000	ND	24.440	97.8	66 - 134
Isopropylbenzene	25.000	ND	24.470	97.9	72 - 131
p-Isopropyltoluene	25.000	ND	24.820	99.3	77 - 127
Methylene chloride	25.000	ND	22.090	88.4	74 - 124
Methyl t-butyl ether	25.000	ND	23.270	93.1	71 - 124
Naphthalene	25.000	ND	23.720	94.9	61 - 128
n-Propylbenzene	25.000	ND	22.880	91.5	76 - 126
Styrene	25.000	ND	24.450	97.8	78 - 123
1,1,1,2-Tetrachloroethane	25.000	ND	25.400	102	78 - 124
1,1,2,2-Tetrachloroethane	25.000	ND	23.020	92.1	71 - 121
Tetrachloroethene	25.000	ND	25.900	104	74 - 129
Toluene	25.000	ND	24.270	97.1	80 - 121
1,2,3-Trichlorobenzene	25.000	ND	24.220	96.9	69 - 129
1,2,4-Trichlorobenzene	25.000	ND	25.140	101	69 - 130

AMEC Environmental & Infrastructure-
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Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

15-MW1_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2094
Laboratory ID: B[G2094-MS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1720121-01

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
1,1,1-Trichloroethane	25.000	ND	25.160	101	74 - 131
1,1,2-Trichloroethane	25.000	ND	23.130	92.5	80 - 119
Trichloroethene	25.000	0.19000	24.500	97.2	79 - 123
Trichlorofluoromethane	25.000	ND	24.200	96.8	65 - 141
1,2,3-Trichloropropane	25.000	ND	25.070	100	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	ND	25.180	101	70 - 136
1,2,4-Trimethylbenzene	25.000	ND	24.080	96.3	76 - 124
1,3,5-Trimethylbenzene	25.000	ND	25.010	100	75 - 124
Vinyl chloride	25.000	0.52000	24.240	94.9	58 - 137
Total Xylenes	75.000	ND	71.800	95.7	79 - 121
Acetone	320.00	ND	288.79	90.2	39 - 160
Acetonitrile	160.00	ND	149.21	93.3	50 - 142
Allyl chloride	32.000	ND	31.420	98.2	68 - 130
t-Amyl Methyl ether	16.000	ND	15.190	94.9	68 - 128
Benzyl chloride	32.000	ND	36.840	115	42 - 138
t-Butyl alcohol	800.00	ND	807.09	101	68 - 129
Carbon disulfide	32.000	ND	31.920	99.8	64 - 133
Chloroprene	32.000	ND	32.080	100	65 - 135
Diisopropyl ether	16.000	ND	16.290	102	67 - 128
Ethyl t-butyl ether	16.000	ND	15.590	97.4	70 - 127
2-Hexanone	320.00	ND	310.81	97.1	57 - 139
Methyl ethyl ketone	160.00	ND	149.92	93.7	56 - 143
Methyl isobutyl ketone	160.00	ND	158.63	99.1	67 - 130
Vinyl acetate	160.00	ND	156.82	98.0	54 - 146

AMEC Environmental & Infrastructure-
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Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

15-MW1_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2094
Laboratory ID: B[G2094-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1720121-01

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	25.000	23.570	94.3	0.596	30	79 - 120
Bromobenzene	25.000	25.010	100	1.94	30	80 - 120
Bromochloromethane	25.000	24.070	96.3	4.76	30	78 - 123
Bromodichloromethane	25.000	24.960	99.8	5.73	30	79 - 125
Bromoform	25.000	25.740	103	1.88	30	66 - 130
Bromomethane	25.000	19.570	78.3	3.96	30	53 - 141
n-Butylbenzene	25.000	24.070	96.3	2.18	30	75 - 128
sec-Butylbenzene	25.000	24.790	99.2	0.764	30	77 - 126
tert-Butylbenzene	25.000	24.160	96.6	0.290	30	78 - 124
Carbon tetrachloride	25.000	25.580	102	0.546	30	72 - 136
Chlorobenzene	25.000	22.490	90.0	2.93	30	82 - 118
Chloroethane	25.000	22.410	89.6	1.37	30	60 - 138
Chloroform	25.000	23.510	94.0	1.67	30	79 - 124
Chloromethane	25.000	17.460	69.8	7.07	30	50 - 139
2-Chlorotoluene	25.000	22.780	91.1	0.743	30	79 - 122
4-Chlorotoluene	25.000	22.640	90.6	0.0884	30	78 - 122
Dibromochloromethane	25.000	26.590	106	7.53	30	74 - 126
1,2-Dibromo-3-chloropropane	25.000	23.660	94.6	2.46	30	62 - 128
1,2-Dibromoethane	25.000	24.870	99.5	6.69	30	77 - 121
Dibromomethane	25.000	25.340	101	6.56	30	79 - 123
1,2-Dichlorobenzene	25.000	22.780	91.1	2.40	30	80 - 119
1,3-Dichlorobenzene	25.000	23.230	92.9	1.21	30	80 - 119
1,4-Dichlorobenzene	25.000	23.380	93.5	2.38	30	79 - 118
Dichlorodifluoromethane	25.000	23.670	94.7	1.18	30	32 - 152
1,1-Dichloroethane	25.000	23.980	95.3	0.795	30	77 - 125
1,2-Dichloroethane	25.000	23.580	94.3	2.36	30	73 - 128

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

15-MW1_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2094
Laboratory ID: B[G2094-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1720121-01

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	25.000	25.600	102	0.391	30	71 - 131
cis-1,2-Dichloroethene	25.000	24.300	96.7	0.247	30	78 - 123
trans-1,2-Dichloroethene	25.000	25.160	101	1.12	30	75 - 124
1,2-Dichloropropane	25.000	23.760	95.0	6.47	30	78 - 122
1,3-Dichloropropane	25.000	23.340	93.4	4.15	30	80 - 119
2,2-Dichloropropane	25.000	26.410	106	0.608	30	60 - 139
1,1-Dichloropropene	25.000	23.080	92.3	0.130	30	79 - 125
cis-1,3-Dichloropropene	25.000	24.500	98.0	0.861	30	75 - 124
trans-1,3-Dichloropropene	25.000	25.950	104	4.77	30	73 - 127
Ethylbenzene	25.000	24.460	97.8	0.410	30	79 - 121
Hexachlorobutadiene	25.000	24.660	98.6	0.896	30	66 - 134
Isopropylbenzene	25.000	24.710	98.8	0.976	30	72 - 131
p-Isopropyltoluene	25.000	25.180	101	1.44	30	77 - 127
Methylene chloride	25.000	22.620	90.5	2.37	30	74 - 124
Methyl t-butyl ether	25.000	24.630	98.5	5.68	30	71 - 124
Naphthalene	25.000	25.240	101	6.21	30	61 - 128
n-Propylbenzene	25.000	23.090	92.4	0.914	30	76 - 126
Styrene	25.000	24.950	99.8	2.02	30	78 - 123
1,1,1,2-Tetrachloroethane	25.000	26.110	104	2.76	30	78 - 124
1,1,2,2-Tetrachloroethane	25.000	24.480	97.9	6.15	30	71 - 121
Tetrachloroethene	25.000	26.360	105	1.76	30	74 - 129
Toluene	25.000	24.620	98.5	1.43	30	80 - 121
1,2,3-Trichlorobenzene	25.000	25.360	101	4.60	30	69 - 129
1,2,4-Trichlorobenzene	25.000	26.180	105	4.05	30	69 - 130
1,1,1-Trichloroethane	25.000	24.920	99.7	0.958	30	74 - 131
1,1,2-Trichloroethane	25.000	23.710	94.8	2.48	30	80 - 119

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260B

15-MW1_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2094
Laboratory ID: B[G2094-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1720121-01

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Trichloroethene	25.000	25.620	102	4.47	30	79 - 123
Trichlorofluoromethane	25.000	24.940	99.8	3.01	30	65 - 141
1,2,3-Trichloropropane	25.000	26.200	105	4.41	30	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	25.580	102	1.58	30	70 - 136
1,2,4-Trimethylbenzene	25.000	23.910	95.6	0.708	30	76 - 124
1,3,5-Trimethylbenzene	25.000	25.120	100	0.439	30	75 - 124
Vinyl chloride	25.000	23.520	92.0	3.02	30	58 - 137
Total Xylenes	75.000	72.170	96.2	0.514	30	79 - 121
Acetone	320.00	283.52	88.6	1.84	30	39 - 160
Acetonitrile	160.00	156.15	97.6	4.55	30	50 - 142
Allyl chloride	32.000	30.000	93.8	4.62	30	68 - 130
t-Amyl Methyl ether	16.000	14.850	92.8	2.26	30	68 - 128
Benzyl chloride	32.000	35.760	112	2.98	30	42 - 138
t-Butyl alcohol	800.00	815.06	102	0.983	30	68 - 129
Carbon disulfide	32.000	30.420	95.1	4.81	30	64 - 133
Chloroprene	32.000	30.740	96.1	4.27	30	65 - 135
Diisopropyl ether	16.000	15.720	98.2	3.56	30	67 - 128
Ethyl t-butyl ether	16.000	15.150	94.7	2.86	30	70 - 127
2-Hexanone	320.00	315.78	98.7	1.59	30	57 - 139
Methyl ethyl ketone	160.00	149.20	93.2	0.481	30	56 - 143
Methyl isobutyl ketone	160.00	156.93	98.1	1.08	30	67 - 130
Vinyl acetate	160.00	151.90	94.9	3.19	30	54 - 146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2094
Laboratory ID: B[G2094-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Benzene	25.000	23.610	94.4	79 - 120
Bromobenzene	25.000	26.370	105	80 - 120
Bromochloromethane	25.000	24.060	96.2	78 - 123
Bromodichloromethane	25.000	24.920	99.7	79 - 125
Bromoform	25.000	27.680	111	66 - 130
Bromomethane	25.000	15.140	60.6	53 - 141
n-Butylbenzene	25.000	26.440	106	75 - 128
sec-Butylbenzene	25.000	27.340	109	77 - 126
tert-Butylbenzene	25.000	26.340	105	78 - 124
Carbon tetrachloride	25.000	25.070	100	72 - 136
Chlorobenzene	25.000	23.850	95.4	82 - 118
Chloroethane	25.000	22.640	90.6	60 - 138
Chloroform	25.000	24.160	96.6	79 - 124
Chloromethane	25.000	17.600	70.4	50 - 139
2-Chlorotoluene	25.000	24.960	99.8	79 - 122
4-Chlorotoluene	25.000	24.870	99.5	78 - 122
Dibromochloromethane	25.000	25.410	102	74 - 126
1,2-Dibromo-3-chloropropane	25.000	26.060	104	62 - 128
1,2-Dibromoethane	25.000	24.660	98.6	77 - 121
Dibromomethane	25.000	25.470	102	79 - 123
1,2-Dichlorobenzene	25.000	24.520	98.1	80 - 119
1,3-Dichlorobenzene	25.000	25.080	100	80 - 119
1,4-Dichlorobenzene	25.000	25.120	100	79 - 118
Dichlorodifluoromethane	25.000	24.370	97.5	32 - 152

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2094
Laboratory ID: B[G2094-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,1-Dichloroethane	25.000	23.840	95.4	77 - 125
1,2-Dichloroethane	25.000	23.940	95.8	73 - 128
1,1-Dichloroethene	25.000	25.660	103	71 - 131
cis-1,2-Dichloroethene	25.000	24.530	98.1	78 - 123
trans-1,2-Dichloroethene	25.000	24.500	98.0	75 - 124
1,2-Dichloropropane	25.000	23.840	95.4	78 - 122
1,3-Dichloropropane	25.000	23.510	94.0	80 - 119
2,2-Dichloropropane	25.000	25.970	104	60 - 139
1,1-Dichloropropene	25.000	23.210	92.8	79 - 125
cis-1,3-Dichloropropene	25.000	24.640	98.6	75 - 124
trans-1,3-Dichloropropene	25.000	25.380	102	73 - 127
Ethylbenzene	25.000	26.280	105	79 - 121
Hexachlorobutadiene	25.000	26.790	107	66 - 134
Isopropylbenzene	25.000	26.800	107	72 - 131
p-Isopropyltoluene	25.000	27.350	109	77 - 127
Methylene chloride	25.000	22.990	92.0	74 - 124
Methyl t-butyl ether	25.000	22.730	90.9	71 - 124
Naphthalene	25.000	25.510	102	61 - 128
n-Propylbenzene	25.000	24.720	98.9	76 - 126
Styrene	25.000	26.860	107	78 - 123
1,1,1,2-Tetrachloroethane	25.000	26.870	107	78 - 124
1,1,2,2-Tetrachloroethane	25.000	25.140	101	71 - 121
Tetrachloroethene	25.000	26.550	106	74 - 129
Toluene	25.000	25.180	101	80 - 121

AMEC Environmental & Infrastructure-
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Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2094
Laboratory ID: B[G2094-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
1,2,3-Trichlorobenzene	25.000	25.980	104	69 - 129
1,2,4-Trichlorobenzene	25.000	27.220	109	69 - 130
1,1,1-Trichloroethane	25.000	25.100	100	74 - 131
1,1,2-Trichloroethane	25.000	23.860	95.4	80 - 119
Trichloroethene	25.000	25.140	101	79 - 123
Trichlorofluoromethane	25.000	24.490	98.0	65 - 141
1,2,3-Trichloropropane	25.000	26.630	107	73 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	25.420	102	70 - 136
1,2,4-Trimethylbenzene	25.000	26.350	105	76 - 124
1,3,5-Trimethylbenzene	25.000	27.060	108	75 - 124
Vinyl chloride	25.000	23.340	93.4	58 - 137
Total Xylenes	75.000	77.610	103	79 - 121
Acetone	320.00	284.00	88.8	39 - 160
Acetonitrile	160.00	158.35	99.0	50 - 142
Allyl chloride	32.000	30.190	94.3	68 - 130
t-Amyl Methyl ether	16.000	14.040	87.8	68 - 128
Benzyl chloride	32.000	35.280	110	42 - 138
t-Butyl alcohol	800.00	720.57	90.1	68 - 129
Carbon disulfide	32.000	29.670	92.7	64 - 133
Chloroprene	32.000	30.890	96.5	65 - 135
Diisopropyl ether	16.000	14.980	93.6	67 - 128
Ethyl t-butyl ether	16.000	14.530	90.8	70 - 127
2-Hexanone	320.00	298.32	93.2	57 - 139
Methyl ethyl ketone	160.00	143.12	89.4	56 - 143

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2094
Laboratory ID: B[G2094-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Methyl isobutyl ketone	160.00	152.37	95.2	67 - 130
Vinyl acetate	160.00	149.49	93.4	54 - 146

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1712752
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	1712752-TUN2	17JUL49.D	07/17/17 23:37
Cal Standard	1712752-CALD	17JUL50.D	07/18/17 00:00
Cal Standard	1712752-CALE	17JUL51.D	07/18/17 00:23
Cal Standard	1712752-CALF	17JUL52.D	07/18/17 00:46
Cal Standard	1712752-CALG	17JUL53.D	07/18/17 01:09
Cal Standard	1712752-CALH	17JUL54.D	07/18/17 01:32
Cal Standard	1712752-CALI	17JUL55.D	07/18/17 01:55
MS Tune	1712752-TUN1	20JUL02.D	07/20/17 08:09
Cal Standard	1712752-CAL1	20JUL03.D	07/20/17 08:32
Cal Standard	1712752-CAL2	20JUL05.D	07/20/17 09:18
Cal Standard	1712752-CAL3	20JUL06.D	07/20/17 09:42
Cal Standard	1712752-CAL4	20JUL07.D	07/20/17 10:05
Cal Standard	1712752-CAL5	20JUL08.D	07/20/17 10:28
Cal Standard	1712752-CAL6	20JUL09.D	07/20/17 10:51
Cal Standard	1712752-CAL7	20JUL15.D	07/20/17 13:09
Cal Standard	1712752-CAL8	20JUL17.D	07/20/17 13:55
Cal Standard	1712752-CAL9	20JUL18.D	07/20/17 14:18
Cal Standard	1712752-CALA	20JUL19.D	07/20/17 14:41
Cal Standard	1712752-CALB	20JUL20.D	07/20/17 15:04
Cal Standard	1712752-CALC	20JUL21.D	07/20/17 15:27

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713088
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1713088-ICV1	20JUL12.D	07/20/17 12:00
Initial Cal Blank	1713088-ICB1	20JUL14.D	07/20/17 12:46
Initial Cal Check	1713088-ICV2	20JUL24.D	07/20/17 16:36
Initial Cal Blank	1713088-ICB2	20JUL26.D	07/20/17 17:22
MS Tune	1713088-TUN2	25JUL27.D	07/25/17 15:38
Calibration Check	1713088-CCV4	25JUL28.D	07/25/17 16:02
Calibration Check	1713088-CCV5	25JUL29.D	07/25/17 16:25
Calibration Blank	1713088-CCB2	25JUL31.D	07/25/17 17:10
15-MW2_170721	1720121-02	25JUL48.D	07/25/17 23:42
15-MW3_170721	1720121-03	25JUL49.D	07/26/17 00:05
27EW-15_170721	1720121-04	25JUL50.D	07/26/17 00:28
27MW02_170721	1720121-05	25JUL51.D	07/26/17 00:50
27MW03_170721	1720121-06	25JUL52.D	07/26/17 01:13
27MW04_170721	1720121-07	25JUL53.D	07/26/17 01:36
27MW10_170721	1720121-08	25JUL54.D	07/26/17 01:59
27MW11_170721	1720121-09	25JUL55.D	07/26/17 02:22
MS Tune	1713088-TUN3	25JUL57.D	07/26/17 03:08
Calibration Check	1713088-CCV7	25JUL58.D	07/26/17 03:31
Calibration Check	1713088-CCV8	25JUL59.D	07/26/17 03:54
Calibration Blank	1713088-CCB3	25JUL61.D	07/26/17 04:40
Blank	B[G2094-BLK1	25JUL62.D	07/26/17 05:03
15-MW1_170721	1720121-01	25JUL63.D	07/26/17 05:26
LCS	B[G2094-BS1	25JUL64.D	07/26/17 05:49
15-MW1_170721	B[G2094-MS1	25JUL65.D	07/26/17 06:12
15-MW1_170721	B[G2094-MSD1	25JUL66.D	07/26/17 06:35
27MW12_170721	1720121-10	25JUL83.D	07/26/17 13:06

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1713088	Instrument:	MS-V5
Matrix:	Water	Calibration:	1707017

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
M14-15_170721	1720121-11	25JUL84.D	07/26/17 13:29
MS Tune	1713088-TUN4	26JUL01.D	07/26/17 13:52
Calibration Check	1713088-CCVA	26JUL02.D	07/26/17 14:15
Calibration Check	1713088-CCVB	26JUL03.D	07/26/17 14:38
Calibration Blank	1713088-CCB4	26JUL05.D	07/26/17 15:24

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713164
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1713164-ICV3	17JUL58.D	07/18/17 03:04
Initial Cal Blank	1713164-ICB3	17JUL60.D	07/18/17 03:50
Initial Cal Check	1713164-ICV1	20JUL12.D	07/20/17 12:00
Initial Cal Blank	1713164-ICB1	20JUL14.D	07/20/17 12:46
Initial Cal Check	1713164-ICV2	20JUL24.D	07/20/17 16:36
Initial Cal Blank	1713164-ICB2	20JUL26.D	07/20/17 17:22
MS Tune	1713164-TUN1	26JUL01.D	07/26/17 13:52
Calibration Check	1713164-CCV1	26JUL02.D	07/26/17 14:15
Calibration Check	1713164-CCV2	26JUL03.D	07/26/17 14:38
Calibration Blank	1713164-CCB1	26JUL05.D	07/26/17 15:24
M14-16_170721	1720121-12	26JUL13.D	07/26/17 18:28
27EW-12_170721	1720121-13	26JUL14.D	07/26/17 18:51
27MW13_170721	1720121-14	26JUL15.D	07/26/17 19:14
EB19_170721	1720121-15	26JUL16.D	07/26/17 19:37
EB20_170721	1720121-16	26JUL17.D	07/26/17 20:00
EB21_170721	1720121-17	26JUL18.D	07/26/17 20:23
MS Tune	1713164-TUN2	26JUL32.D	07/27/17 01:45
Calibration Check	1713164-CCV4	26JUL33.D	07/27/17 02:08
Calibration Check	1713164-CCV5	26JUL34.D	07/27/17 02:31
Calibration Blank	1713164-CCB2	26JUL36.D	07/27/17 03:17

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Lab File ID:	20JUL02.D	Injection Date:	07/20/17
Instrument ID:	MS-V5	Injection Time:	08:09
Sequence:	1712752	Lab Sample ID:	1712752-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	20.8	PASS
Mass 75	30 - 60% of Mass 95	40.3	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	8.2	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	53.7	PASS
Mass 175	5 - 9% of Mass 174	6.24	PASS
Mass 176	95 - 101% of Mass 174	98.1	PASS
Mass 177	5 - 9% of Mass 176	8.19	PASS

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Lab File ID:	17JUL49.D	Injection Date:	07/17/17
Instrument ID:	MS-V5	Injection Time:	23:37
Sequence:	1712752	Lab Sample ID:	1712752-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	19.3	PASS
Mass 75	30 - 60% of Mass 95	38.6	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	7.2	PASS
Mass 173	Less than 2% of Mass 174	0.531	PASS
Mass 174	50 - 100% of Mass 95	72.4	PASS
Mass 175	5 - 9% of Mass 174	7.55	PASS
Mass 176	95 - 101% of Mass 174	96.6	PASS
Mass 177	5 - 9% of Mass 176	6.03	PASS

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Lab File ID:	25JUL27.D	Injection Date:	07/25/17
Instrument ID:	MS-V5	Injection Time:	15:38
Sequence:	1713088	Lab Sample ID:	1713088-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	18.7	PASS
Mass 75	30 - 60% of Mass 95	42	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	6.6	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	80.1	PASS
Mass 175	5 - 9% of Mass 174	7.9	PASS
Mass 176	95 - 101% of Mass 174	99.5	PASS
Mass 177	5 - 9% of Mass 176	7.11	PASS

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Lab File ID:	25JUL57.D	Injection Date:	07/26/17
Instrument ID:	MS-V5	Injection Time:	03:08
Sequence:	1713088	Lab Sample ID:	1713088-TUN3

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	23.6	PASS
Mass 75	30 - 60% of Mass 95	43.3	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	6.73	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	62.1	PASS
Mass 175	5 - 9% of Mass 174	7.77	PASS
Mass 176	95 - 101% of Mass 174	98.5	PASS
Mass 177	5 - 9% of Mass 176	6.88	PASS

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Lab File ID:	26JUL01.D	Injection Date:	07/26/17
Instrument ID:	MS-V5	Injection Time:	13:52
Sequence:	1713088	Lab Sample ID:	1713088-TUN4

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	18.1	PASS
Mass 75	30 - 60% of Mass 95	40.8	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	8.35	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	82.8	PASS
Mass 175	5 - 9% of Mass 174	8.78	PASS
Mass 176	95 - 101% of Mass 174	100	PASS
Mass 177	5 - 9% of Mass 176	8.15	PASS

AMEC Environmental & Infrastructure-
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Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Lab File ID:	26JUL01.D	Injection Date:	07/26/17
Instrument ID:	MS-V5	Injection Time:	13:52
Sequence:	1713164	Lab Sample ID:	1713164-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	18.1	PASS
Mass 75	30 - 60% of Mass 95	40.8	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	8.35	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	82.8	PASS
Mass 175	5 - 9% of Mass 174	8.78	PASS
Mass 176	95 - 101% of Mass 174	100	PASS
Mass 177	5 - 9% of Mass 176	8.15	PASS

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Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Lab File ID:	26JUL32.D	Injection Date:	07/27/17
Instrument ID:	MS-V5	Injection Time:	01:45
Sequence:	1713164	Lab Sample ID:	1713164-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	15.7	PASS
Mass 75	30 - 60% of Mass 95	37.3	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	7.55	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	85.5	PASS
Mass 175	5 - 9% of Mass 174	8.64	PASS
Mass 176	95 - 101% of Mass 174	97.9	PASS
Mass 177	5 - 9% of Mass 176	6.62	PASS

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	20JUL12.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/20/17
Lab Sample ID:	1713088-ICV1	Injection Time:	12:00

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Benzene	A	25.000	24.890	2.047739	2.039122		-0.4	20
Bromobenzene	A	25.000	25.230	1.167814	1.17861		0.9	20
Bromochloromethane	A	25.000	24.530	0.1664346	0.1632807		-1.9	20
Bromodichloromethane	A	25.000	25.280	0.2878825	0.2911282		1.1	20
Bromoform	A	25.000	26.740	0.245463	0.2625679	0.1	7.0	20
Bromomethane	A	25.000	25.110	0.406522	0.4083079		0.4	20
n-Butylbenzene	A	25.000	26.100	4.798501	5.009032		4.4	20
sec-Butylbenzene	A	25.000	26.640	6.314385	6.729672		6.6	20
tert-Butylbenzene	A	25.000	25.400	4.660614	4.735605		1.6	20
Carbon tetrachloride	A	25.000	25.480	0.449341	0.457984		1.9	20
Chlorobenzene	A	25.000	23.360	3.316137	3.09848	0.3	-6.6	20
Chloroethane	A	25.000	24.110	0.5145747	0.4963064		-3.6	20
Chloroform	A	25.000	24.930	0.7571101	0.7548645		-0.3	20
Chloromethane	A	25.000	21.800	0.9407238	0.8204025	0.1	-12.8	20
2-Chlorotoluene	A	25.000	24.160	4.677137	4.5199		-3.4	20
4-Chlorotoluene	A	25.000	24.370	4.223867	4.117292		-2.5	20
Dibromochloromethane	A	25.000	26.550	0.1504286	0.1597323		6.2	20
1,2-Dibromo-3-chloropropane	A	25.000	28.170	7.330085E-02	0.0826084		12.7	20
1,2-Dibromoethane	A	25.000	26.200	0.1293784	0.1355752		4.8	20
Dibromomethane	A	25.000	26.740	9.576412E-02	0.1024155		6.9	20
1,2-Dichlorobenzene	A	25.000	24.020	2.15653	2.071804		-3.9	20
1,3-Dichlorobenzene	A	25.000	24.340	2.49992	2.433885		-2.6	20
1,4-Dichlorobenzene	A	25.000	24.380	2.443238	2.382478		-2.5	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	20JUL12.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/20/17
Lab Sample ID:	1713088-ICV1	Injection Time:	12:00

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Dichlorodifluoromethane	A	25.000	26.330	0.4975939	0.5240701		5.3	20
1,1-Dichloroethane	A	25.000	25.490	1.070106	1.090882	0.1	1.9	20
1,2-Dichloroethane	A	25.000	24.460	0.4067953	0.3979766		-2.2	20
1,1-Dichloroethene	A	25.000	25.940	0.8069668	0.8371807		3.7	20
cis-1,2-Dichloroethene	A	25.000	25.330	0.5222008	0.5290657		1.3	20
trans-1,2-Dichloroethene	A	25.000	26.540	0.5009588	0.5318602		6.2	20
1,2-Dichloropropane	A	25.000	24.220	0.379403	0.3675628		-3.1	20
1,3-Dichloropropane	A	25.000	23.670	0.2528371	0.2393712		-5.3	20
2,2-Dichloropropane	A	25.000	25.930	0.602219	0.6245229		3.7	20
1,1-Dichloropropene	A	25.000	24.420	0.6845791	0.6686965		-2.3	20
cis-1,3-Dichloropropene	A	25.000	26.090	0.3594295	0.375053		4.3	20
trans-1,3-Dichloropropene	A	25.000	26.130	0.2346113	0.2452383		4.5	20
Ethylbenzene	A	25.000	25.810	1.948304	2.0114		3.2	20
Hexachlorobutadiene	A	25.000	25.210	0.86466	0.872002		0.8	20
Isopropylbenzene	A	25.000	26.250	5.700983	5.985719		5.0	20
p-Isopropyltoluene	A	25.000	26.690	5.149437	5.497681		6.8	20
Methylene chloride	A	25.000	24.890	0.4314876	0.4296029		-0.4	20
Methyl t-butyl ether	A	25.000	25.570	0.603852	0.6175321		2.3	20
Naphthalene	A	25.000	26.500	1.569043	1.6633		6.0	20
n-Propylbenzene	A	25.000	24.270	7.403456	7.187232		-2.9	20
Styrene	A	25.000	26.450	3.356924	3.551577		5.8	20
1,1,1,2-Tetrachloroethane	A	25.000	26.860	0.8160317	0.8766748		7.4	20
1,1,2,2-Tetrachloroethane	A	25.000	25.920	0.5437402	0.5638488	0.3	3.7	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	20JUL12.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/20/17
Lab Sample ID:	1713088-ICV1	Injection Time:	12:00

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Tetrachloroethene	A	25.000	25.470	0.3290699	0.3353122		1.9	20
Toluene	A	25.000	24.960	0.8662846	0.8648716		-0.2	20
1,2,3-Trichlorobenzene	A	25.000	26.670	1.048181	1.118245		6.7	20
1,2,4-Trichlorobenzene	A	25.000	27.060	1.248966	1.351767		8.2	20
1,1,1-Trichloroethane	A	25.000	25.790	0.6553918	0.6760837		3.2	20
1,1,2-Trichloroethane	A	25.000	25.220	0.1556498	0.1570429		0.9	20
Trichloroethene	A	25.000	25.390	0.3434012	0.3487116		1.5	20
Trichlorofluoromethane	A	25.000	25.570	0.6158835	0.6299322		2.3	20
1,2,3-Trichloropropane	A	25.000	25.960	0.1156016	0.1200231		3.8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	26.470	0.4228091	0.4476203		5.9	20
1,2,4-Trimethylbenzene	A	25.000	26.050	4.672745	4.868982		4.2	20
1,3,5-Trimethylbenzene	A	25.000	27.000	4.717828	5.09494		8.0	20
Vinyl chloride	A	25.000	24.480	0.7494116	0.7337211		-2.1	20
Total Xylenes	A	75.000	76.780	2.323025	2.378206		2.4	20
p- & m-Xylenes	A	50.000	51.130	2.383338	2.437307		2.3	20
o-Xylene	A	25.000	25.650	2.2024	2.260003		2.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	20JUL24.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/20/17
Lab Sample ID:	1713088-ICV2	Injection Time:	16:36

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Acetone	A	320.00	311.29	4.120558E-02	4.008438E-02		-2.7	20
Acetonitrile	A	160.00	156.48	1.962376E-02	1.919169E-02		-2.2	20
Acrolein	A	200.00	192.76	1.822349E-02	1.756349E-02		-3.6	20
Acrylonitrile	A	80.000	79.220	6.794017E-02	0.0672776		-1.0	20
Allyl chloride	A	32.000	30.910	1.003175	0.9689626		-3.4	20
t-Amyl Methyl ether	A	16.000	15.740	0.6727663	0.6619595		-1.6	20
Benzyl chloride	L	32.000	28.550	0.5754497	0.592096		-10.8	20
t-Butyl alcohol	A	800.00	778.65	0.0118311	1.151529E-02		-2.7	20
Carbon disulfide	A	32.000	30.220	1.516116	1.431992		-5.5	20
Chloroprene	A	32.000	29.870	1.054363	0.9841485		-6.7	20
trans-1,4-Dichloro-2-butene	A	80.000	79.090	0.1052838	0.1040847		-1.1	20
Diisopropyl ether	A	16.000	15.560	0.3736986	0.3634691		-2.7	20
Ethanol	A	4000.0	3929.6	1.803136E-03	1.771401E-03		-1.8	20
Ethyl t-butyl ether	A	16.000	14.950	1.222825	1.142353		-6.6	20
Hexane	A	25.000	24.860	0.6427995	0.6391492		-0.6	20
2-Hexanone	A	320.00	300.02	7.579232E-02	7.106038E-02		-6.2	20
Isobutanol	A	400.00	438.87	5.666875E-03	6.217617E-03		9.7	20
Isopropyl alcohol	A	800.00	819.41	8.311588E-03	8.513295E-03		2.4	20
Methacrylonitrile	A	160.00	152.91	0.0669583	6.399131E-02		-4.4	20
Methyl ethyl ketone	A	160.00	150.32	7.316144E-02	6.873728E-02		-6.0	20
Methyl iodide	A	32.000	34.400	0.5894983	0.6336396		7.5	20
Methyl isobutyl ketone	A	160.00	150.81	0.1118834	0.1054587		-5.7	20
Methyl methacrylate	A	80.000	76.810	7.466178E-02	7.168095E-02		-4.0	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	20JUL24.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/20/17
Lab Sample ID:	1713088-ICV2	Injection Time:	16:36

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Propionitrile	A	400.00	390.39	2.456186E-02	2.397151E-02		-2.4	20
Vinyl acetate	A	160.00	149.46	0.5836509	0.5452114		-6.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	25JUL28.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/25/17
Lab Sample ID:	1713088-CCV4	Injection Time:	16:02

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	23.650	2.047739	1.936946		-5.4	20	
Bromobenzene	A	25.000	24.720	1.167814	1.154859		-1.1	20	
Bromochloromethane	A	25.000	24.320	0.1664346	0.1619172		-2.7	20	
Bromodichloromethane	A	25.000	24.660	0.2878825	0.2839162		-1.4	20	
Bromoform	A	25.000	26.010	0.245463	0.2553406	0.1	4.0	20	
Bromomethane	A	25.000	16.130	0.406522	0.2623666		-35.5	20	*
n-Butylbenzene	A	25.000	24.250	4.798501	4.655384		-3.0	20	
sec-Butylbenzene	A	25.000	25.410	6.314385	6.417607		1.6	20	
tert-Butylbenzene	A	25.000	24.050	4.660614	4.483627		-3.8	20	
Carbon tetrachloride	A	25.000	24.090	0.449341	0.4329034		-3.7	20	
Chlorobenzene	A	25.000	24.260	3.316137	3.217623	0.3	-3.0	20	
Chloroethane	A	25.000	22.540	0.5145747	0.4638909		-9.8	20	
Chloroform	A	25.000	23.390	0.7571101	0.7082566		-6.5	20	
Chloromethane	A	25.000	17.890	0.9407238	0.6730381	0.1	-28.5	20	*
2-Chlorotoluene	A	25.000	24.520	4.677137	4.58692		-1.9	20	
4-Chlorotoluene	A	25.000	24.930	4.223867	4.212379		-0.3	20	
Dibromochloromethane	A	25.000	26.240	0.1504286	0.1579074		5.0	20	
1,2-Dibromo-3-chloropropane	A	25.000	25.310	7.330085E-02	0.0742009		1.2	20	
1,2-Dibromoethane	A	25.000	24.480	0.1293784	0.1267087		-2.1	20	
Dibromomethane	A	25.000	24.370	9.576412E-02	9.336764E-02		-2.5	20	
1,2-Dichlorobenzene	A	25.000	25.050	2.15653	2.160864		0.2	20	
1,3-Dichlorobenzene	A	25.000	25.450	2.49992	2.544972		1.8	20	
1,4-Dichlorobenzene	A	25.000	25.570	2.443238	2.498802		2.3	20	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	25JUL28.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/25/17
Lab Sample ID:	1713088-CCV4	Injection Time:	16:02

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Dichlorodifluoromethane	A	25.000	23.370	0.4975939	0.4651251		-6.5	20
1,1-Dichloroethane	A	25.000	23.820	1.070106	1.019717	0.1	-4.7	20
1,2-Dichloroethane	A	25.000	23.890	0.4067953	0.3887265		-4.4	20
1,1-Dichloroethene	A	25.000	23.680	0.8069668	0.7643478		-5.3	20
cis-1,2-Dichloroethene	A	25.000	23.480	0.5222008	0.4904985		-6.1	20
trans-1,2-Dichloroethene	A	25.000	23.450	0.5009588	0.4699646		-6.2	20
1,2-Dichloropropane	A	25.000	24.270	0.379403	0.3682504		-2.9	20
1,3-Dichloropropane	A	25.000	24.540	0.2528371	0.2482171		-1.8	20
2,2-Dichloropropane	A	25.000	24.340	0.602219	0.5864039		-2.6	20
1,1-Dichloropropene	A	25.000	23.820	0.6845791	0.6521935		-4.7	20
cis-1,3-Dichloropropene	A	25.000	25.500	0.3594295	0.3666079		2.0	20
trans-1,3-Dichloropropene	A	25.000	25.380	0.2346113	0.2381629		1.5	20
Ethylbenzene	A	25.000	25.070	1.948304	1.953916		0.3	20
Hexachlorobutadiene	A	25.000	24.350	0.86466	0.8421478		-2.6	20
Isopropylbenzene	A	25.000	25.180	5.700983	5.740976		0.7	20
p-Isopropyltoluene	A	25.000	24.960	5.149437	5.140364		-0.2	20
Methylene chloride	A	25.000	23.850	0.4314876	0.4116813		-4.6	20
Methyl t-butyl ether	A	25.000	23.770	0.603852	0.5741422		-4.9	20
Naphthalene	A	25.000	24.590	1.569043	1.543546		-1.6	20
n-Propylbenzene	A	25.000	23.820	7.403456	7.055082		-4.7	20
Styrene	A	25.000	25.290	3.356924	3.395824		1.2	20
1,1,1,2-Tetrachloroethane	A	25.000	26.680	0.8160317	0.8707281		6.7	20
1,1,2,2-Tetrachloroethane	A	25.000	25.690	0.5437402	0.5586476	0.3	2.7	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	25JUL28.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/25/17
Lab Sample ID:	1713088-CCV4	Injection Time:	16:02

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Tetrachloroethene	A	25.000	24.830	0.3290699	0.3267931		-0.7	20
Toluene	A	25.000	24.720	0.8662846	0.8565513		-1.1	20
1,2,3-Trichlorobenzene	A	25.000	23.750	1.048181	0.9956887		-5.0	20
1,2,4-Trichlorobenzene	A	25.000	24.240	1.248966	1.211146		-3.0	20
1,1,1-Trichloroethane	A	25.000	23.670	0.6553918	0.620617		-5.3	20
1,1,2-Trichloroethane	A	25.000	23.910	0.1556498	0.1488783		-4.4	20
Trichloroethene	A	25.000	24.800	0.3434012	0.340652		-0.8	20
Trichlorofluoromethane	A	25.000	23.650	0.6158835	0.5826885		-5.4	20
1,2,3-Trichloropropane	A	25.000	27.120	0.1156016	0.125392		8.5	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	24.940	0.4228091	0.4217745		-0.2	20
1,2,4-Trimethylbenzene	A	25.000	24.480	4.672745	4.57544		-2.1	20
1,3,5-Trimethylbenzene	A	25.000	25.230	4.717828	4.761244		0.9	20
Vinyl chloride	A	25.000	22.360	0.7494116	0.6704209		-10.5	20
Total Xylenes	A	75.000	74.120	2.323025	2.295215		-1.2	20
p- & m-Xylenes	A	50.000	49.150	2.383338	2.342756		-1.7	20
o-Xylene	A	25.000	24.970	2.2024	2.200132		-0.1	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	25JUL29.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/25/17
Lab Sample ID:	1713088-CCV5	Injection Time:	16:25

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Acetone	A	320.00	296.79	4.120558E-02	3.821684E-02		-7.3	20	
Acetonitrile	A	160.00	163.67	1.962376E-02	2.007441E-02		2.3	20	
Acrolein	A	200.00	251.03	1.822349E-02	0.0228728		25.5	20	*
Acrylonitrile	A	80.000	73.700	6.794017E-02	6.258956E-02		-7.9	20	
Allyl chloride	A	32.000	28.200	1.003175	0.8841292		-11.9	20	
t-Amyl Methyl ether	A	16.000	14.860	0.6727663	0.6249659		-7.1	20	
Benzyl chloride	L	32.000	30.920	0.5754497	0.6462135		-3.4	20	
t-Butyl alcohol	A	800.00	778.41	0.0118311	1.151186E-02		-2.7	20	
Carbon disulfide	A	32.000	27.990	1.516116	1.326292		-12.5	20	
Chloroprene	A	32.000	27.580	1.054363	0.9087306		-13.8	20	
trans-1,4-Dichloro-2-butene	A	80.000	87.020	0.1052838	0.1145233		8.8	20	
Diisopropyl ether	A	16.000	14.580	0.3736986	0.3406156		-8.9	20	
Ethanol	A	4000.0	4012.7	1.803136E-03	1.80888E-03		0.3	20	
Ethyl t-butyl ether	A	16.000	14.360	1.222825	1.097161		-10.3	20	
Hexane	A	25.000	24.410	0.6427995	0.6276007		-2.4	20	
2-Hexanone	A	320.00	290.99	7.579232E-02	6.892199E-02		-9.1	20	
Isobutanol	A	400.00	432.73	5.666875E-03	6.130577E-03		8.2	20	
Isopropyl alcohol	A	800.00	791.83	8.311588E-03	8.226658E-03		-1.0	20	
Methacrylonitrile	A	160.00	148.43	0.0669583	6.211486E-02		-7.2	20	
Methyl ethyl ketone	A	160.00	144.55	7.316144E-02	6.609869E-02		-9.7	20	
Methyl iodide	A	32.000	10.550	0.5894983	0.1942996		-67.0	20	*
Methyl isobutyl ketone	A	160.00	146.86	0.1118834	0.1026926		-8.2	20	
Methyl methacrylate	A	80.000	78.490	7.466178E-02	7.325259E-02		-1.9	20	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	25JUL29.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/25/17
Lab Sample ID:	1713088-CCV5	Injection Time:	16:25

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Propionitrile	A	400.00	373.52	2.456186E-02	2.293559E-02		-6.6	20
Vinyl acetate	A	160.00	148.12	0.5836509	0.540297		-7.4	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	25JUL58.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/26/17
Lab Sample ID:	1713088-CCV7	Injection Time:	03:31

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	25.180	2.047739	2.062399		0.7	20	
Bromobenzene	A	25.000	26.550	1.167814	1.240451		6.2	20	
Bromochloromethane	A	25.000	26.080	0.1664346	0.1736061		4.3	20	
Bromodichloromethane	A	25.000	25.830	0.2878825	0.2974617		3.3	20	
Bromoform	A	25.000	27.020	0.245463	0.2653357	0.1	8.1	20	
Bromomethane	A	25.000	9.4400	0.406522	0.1535105		-62.2	20	*
n-Butylbenzene	A	25.000	25.800	4.798501	4.951418		3.2	20	
sec-Butylbenzene	A	25.000	27.610	6.314385	6.972685		10.4	20	
tert-Butylbenzene	A	25.000	26.360	4.660614	4.913433		5.4	20	
Carbon tetrachloride	A	25.000	26.870	0.449341	0.4829263		7.5	20	
Chlorobenzene	A	25.000	25.890	3.316137	3.433562	0.3	3.5	20	
Chloroethane	A	25.000	24.950	0.5145747	0.5134746		-0.2	20	
Chloroform	A	25.000	26.020	0.7571101	0.7879732		4.1	20	
Chloromethane	A	25.000	18.630	0.9407238	0.701072	0.1	-25.5	20	*
2-Chlorotoluene	A	25.000	26.870	4.677137	5.027418		7.5	20	
4-Chlorotoluene	A	25.000	27.260	4.223867	4.60632		9.1	20	
Dibromochloromethane	A	25.000	26.320	0.1504286	0.1583822		5.3	20	
1,2-Dibromo-3-chloropropane	A	25.000	25.490	7.330085E-02	7.473946E-02		2.0	20	
1,2-Dibromoethane	A	25.000	24.420	0.1293784	0.1263969		-2.3	20	
Dibromomethane	A	25.000	26.090	9.576412E-02	9.994793E-02		4.4	20	
1,2-Dichlorobenzene	A	25.000	26.480	2.15653	2.283889		5.9	20	
1,3-Dichlorobenzene	A	25.000	26.770	2.49992	2.676545		7.1	20	
1,4-Dichlorobenzene	A	25.000	26.900	2.443238	2.628726		7.6	20	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	25JUL58.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/26/17
Lab Sample ID:	1713088-CCV7	Injection Time:	03:31

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Dichlorodifluoromethane	A	25.000	26.400	0.4975939	0.525419		5.6	20
1,1-Dichloroethane	A	25.000	25.530	1.070106	1.092906	0.1	2.1	20
1,2-Dichloroethane	A	25.000	26.030	0.4067953	0.4235685		4.1	20
1,1-Dichloroethene	A	25.000	26.830	0.8069668	0.8659617		7.3	20
cis-1,2-Dichloroethene	A	25.000	24.650	0.5222008	0.5148837		-1.4	20
trans-1,2-Dichloroethene	A	25.000	26.110	0.5009588	0.5231635		4.4	20
1,2-Dichloropropane	A	25.000	24.970	0.379403	0.3788947		-0.1	20
1,3-Dichloropropane	A	25.000	24.400	0.2528371	0.2467203		-2.4	20
2,2-Dichloropropane	A	25.000	21.230	0.602219	0.5113477		-15.1	20
1,1-Dichloropropene	A	25.000	25.810	0.6845791	0.7068101		3.2	20
cis-1,3-Dichloropropene	A	25.000	25.200	0.3594295	0.3622623		0.8	20
trans-1,3-Dichloropropene	A	25.000	26.400	0.2346113	0.2477931		5.6	20
Ethylbenzene	A	25.000	26.760	1.948304	2.085391		7.0	20
Hexachlorobutadiene	A	25.000	26.390	0.86466	0.9127666		5.6	20
Isopropylbenzene	A	25.000	27.520	5.700983	6.275357		10.1	20
p-Isopropyltoluene	A	25.000	27.050	5.149437	5.572425		8.2	20
Methylene chloride	A	25.000	24.800	0.4314876	0.4280237		-0.8	20
Methyl t-butyl ether	A	25.000	24.160	0.603852	0.5836175		-3.4	20
Naphthalene	A	25.000	24.850	1.569043	1.559483		-0.6	20
n-Propylbenzene	A	25.000	25.640	7.403456	7.593668		2.6	20
Styrene	A	25.000	27.060	3.356924	3.633362		8.2	20
1,1,1,2-Tetrachloroethane	A	25.000	28.200	0.8160317	0.9205526		12.8	20
1,1,2,2-Tetrachloroethane	A	25.000	23.560	0.5437402	0.5124697	0.3	-5.8	20

AMEC Environmental & Infrastructure-
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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	25JUL58.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/26/17
Lab Sample ID:	1713088-CCV7	Injection Time:	03:31

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloroethene	A	25.000	27.700	0.3290699	0.3646068		10.8	20
Toluene	A	25.000	26.010	0.8662846	0.9012964		4.0	20
1,2,3-Trichlorobenzene	A	25.000	24.900	1.048181	1.044026		-0.4	20
1,2,4-Trichlorobenzene	A	25.000	25.580	1.248966	1.277981		2.3	20
1,1,1-Trichloroethane	A	25.000	26.800	0.6553918	0.7024786		7.2	20
1,1,2-Trichloroethane	A	25.000	24.350	0.1556498	0.1516133		-2.6	20
Trichloroethene	A	25.000	28.010	0.3434012	0.3846878		12.0	20
Trichlorofluoromethane	A	25.000	27.460	0.6158835	0.6765212		9.8	20
1,2,3-Trichloropropane	A	25.000	28.150	0.1156016	0.1301624		12.6	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	26.510	0.4228091	0.4483981		6.1	20
1,2,4-Trimethylbenzene	A	25.000	26.350	4.672745	4.924412		5.4	20
1,3,5-Trimethylbenzene	A	25.000	27.650	4.717828	5.218244		10.6	20
Vinyl chloride	A	25.000	24.530	0.7494116	0.7352194		-1.9	20
Total Xylenes	A	75.000	80.280	2.323025	2.485904		7.0	20
p- & m-Xylenes	A	50.000	53.320	2.383338	2.541463		6.6	20
o-Xylene	A	25.000	26.960	2.2024	2.374788		7.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	25JUL59.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/26/17
Lab Sample ID:	1713088-CCV8	Injection Time:	03:54

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Acetone	A	320.00	330.20	4.120558E-02	4.251837E-02		3.2	20	
Acetonitrile	A	160.00	168.91	1.962376E-02	2.071637E-02		5.6	20	
Acrolein	A	200.00	256.71	1.822349E-02	2.339045E-02		28.4	20	*
Acrylonitrile	A	80.000	82.640	6.794017E-02	7.018366E-02		3.3	20	
Allyl chloride	A	32.000	32.190	1.003175	1.009024		0.6	20	
t-Amyl Methyl ether	A	16.000	15.900	0.6727663	0.6686524		-0.6	20	
Benzyl chloride	L	32.000	20.530	0.5754497	0.408264		-35.8	20	*
t-Butyl alcohol	A	800.00	812.29	0.0118311	1.201278E-02		1.5	20	
Carbon disulfide	A	32.000	32.590	1.516116	1.544133		1.8	20	
Chloroprene	A	32.000	33.700	1.054363	1.110384		5.3	20	
trans-1,4-Dichloro-2-butene	A	80.000	65.670	0.1052838	8.642447E-02		-17.9	20	
Diisopropyl ether	A	16.000	15.540	0.3736986	0.363009		-2.9	20	
Ethanol	A	4000.0	4143.6	1.803136E-03	1.867872E-03		3.6	20	
Ethyl t-butyl ether	A	16.000	15.800	1.222825	1.20737		-1.3	20	
Hexane	A	25.000	23.980	0.6427995	0.6165848		-4.1	20	
2-Hexanone	A	320.00	322.74	7.579232E-02	7.644226E-02		0.9	20	
Isobutanol	A	400.00	440.83	5.666875E-03	6.245385E-03		10.2	20	
Isopropyl alcohol	A	800.00	828.48	8.311588E-03	8.607476E-03		3.6	20	
Methacrylonitrile	A	160.00	159.92	0.0669583	0.0669264		-0.05	20	
Methyl ethyl ketone	A	160.00	153.04	7.316144E-02	6.997892E-02		-4.3	20	
Methyl iodide	A	32.000	14.950	0.5894983	0.2753233		-53.3	20	*
Methyl isobutyl ketone	A	160.00	162.94	0.1118834	0.1139368		1.8	20	
Methyl methacrylate	A	80.000	81.400	7.466178E-02	7.596727E-02		1.7	20	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	25JUL59.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/26/17
Lab Sample ID:	1713088-CCV8	Injection Time:	03:54

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Propionitrile	A	400.00	405.64	2.456186E-02	2.490829E-02		1.4	20
Vinyl acetate	A	160.00	118.46	0.5836509	0.4321206		-26.0	20 *

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	26JUL02.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/26/17
Lab Sample ID:	1713088-CCVA	Injection Time:	14:15

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	24.950	2.047739	2.043753		-0.2	20	
Bromobenzene	A	25.000	26.320	1.167814	1.229674		5.3	20	
Bromochloromethane	A	25.000	25.110	0.1664346	0.1671378		0.4	20	
Bromodichloromethane	A	25.000	27.060	0.2878825	0.3115969		8.2	20	
Bromoform	A	25.000	28.460	0.245463	0.2794412	0.1	13.8	20	
Bromomethane	A	25.000	13.940	0.406522	0.2266287		-44.3	20	*
n-Butylbenzene	A	25.000	26.700	4.798501	5.12547		6.8	20	
sec-Butylbenzene	A	25.000	28.030	6.314385	7.080175		12.1	20	
tert-Butylbenzene	A	25.000	26.610	4.660614	4.96035		6.4	20	
Carbon tetrachloride	A	25.000	26.590	0.449341	0.4779156		6.4	20	
Chlorobenzene	A	25.000	25.270	3.316137	3.352356	0.3	1.1	20	
Chloroethane	A	25.000	23.460	0.5145747	0.4829793		-6.1	20	
Chloroform	A	25.000	24.950	0.7571101	0.7555304		-0.2	20	
Chloromethane	A	25.000	20.320	0.9407238	0.7646437	0.1	-18.7	20	
2-Chlorotoluene	A	25.000	26.710	4.677137	4.997074		6.8	20	
4-Chlorotoluene	A	25.000	26.950	4.223867	4.55312		7.8	20	
Dibromochloromethane	A	25.000	27.930	0.1504286	0.1680329		11.7	20	
1,2-Dibromo-3-chloropropane	A	25.000	24.680	7.330085E-02	7.235214E-02		-1.3	20	
1,2-Dibromoethane	A	25.000	25.990	0.1293784	0.1344987		4.0	20	
Dibromomethane	A	25.000	27.100	9.576412E-02	0.1038229		8.4	20	
1,2-Dichlorobenzene	A	25.000	27.240	2.15653	2.349532		8.9	20	
1,3-Dichlorobenzene	A	25.000	27.660	2.49992	2.765791		10.6	20	
1,4-Dichlorobenzene	A	25.000	27.690	2.443238	2.706089		10.8	20	

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	26JUL02.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/26/17
Lab Sample ID:	1713088-CCVA	Injection Time:	14:15

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Dichlorodifluoromethane	A	25.000	25.730	0.4975939	0.5121351		2.9	20
1,1-Dichloroethane	A	25.000	24.490	1.070106	1.048351	0.1	-2.0	20
1,2-Dichloroethane	A	25.000	25.900	0.4067953	0.421519		3.6	20
1,1-Dichloroethene	A	25.000	25.950	0.8069668	0.8375191		3.8	20
cis-1,2-Dichloroethene	A	25.000	24.740	0.5222008	0.516812		-1.0	20
trans-1,2-Dichloroethene	A	25.000	24.660	0.5009588	0.4941397		-1.4	20
1,2-Dichloropropane	A	25.000	26.000	0.379403	0.3945215		4.0	20
1,3-Dichloropropane	A	25.000	25.760	0.2528371	0.2604755		3.0	20
2,2-Dichloropropane	A	25.000	26.690	0.602219	0.642834		6.7	20
1,1-Dichloropropene	A	25.000	25.010	0.6845791	0.6849522		0.05	20
cis-1,3-Dichloropropene	A	25.000	27.600	0.3594295	0.396809		10.4	20
trans-1,3-Dichloropropene	A	25.000	28.170	0.2346113	0.2643592		12.7	20
Ethylbenzene	A	25.000	26.730	1.948304	2.083438		6.9	20
Hexachlorobutadiene	A	25.000	27.120	0.86466	0.9380393		8.5	20
Isopropylbenzene	A	25.000	27.050	5.700983	6.168603		8.2	20
p-Isopropyltoluene	A	25.000	27.520	5.149437	5.667732		10.1	20
Methylene chloride	A	25.000	23.700	0.4314876	0.4090826		-5.2	20
Methyl t-butyl ether	A	25.000	24.290	0.603852	0.5865836		-2.9	20
Naphthalene	A	25.000	26.250	1.569043	1.647587		5.0	20
n-Propylbenzene	A	25.000	25.690	7.403456	7.607573		2.8	20
Styrene	A	25.000	26.870	3.356924	3.60779		7.5	20
1,1,1,2-Tetrachloroethane	A	25.000	27.940	0.8160317	0.9119389		11.8	20
1,1,2,2-Tetrachloroethane	A	25.000	26.770	0.5437402	0.5822037	0.3	7.1	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	26JUL02.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/26/17
Lab Sample ID:	1713088-CCVA	Injection Time:	14:15

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Tetrachloroethene	A	25.000	28.230	0.3290699	0.3715711		12.9	20
Toluene	A	25.000	27.220	0.8662846	0.943272		8.9	20
1,2,3-Trichlorobenzene	A	25.000	25.580	1.048181	1.072686		2.3	20
1,2,4-Trichlorobenzene	A	25.000	27.010	1.248966	1.349498		8.0	20
1,1,1-Trichloroethane	A	25.000	26.060	0.6553918	0.6832564		4.3	20
1,1,2-Trichloroethane	A	25.000	25.270	0.1556498	0.1573339		1.1	20
Trichloroethene	A	25.000	27.410	0.3434012	0.3765402		9.7	20
Trichlorofluoromethane	A	25.000	26.560	0.6158835	0.6543199		6.2	20
1,2,3-Trichloropropane	A	25.000	27.330	0.1156016	0.1263937		9.3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	26.850	0.4228091	0.4540829		7.4	20
1,2,4-Trimethylbenzene	A	25.000	27.050	4.672745	5.055609		8.2	20
1,3,5-Trimethylbenzene	A	25.000	27.290	4.717828	5.149092		9.1	20
Vinyl chloride	A	25.000	24.700	0.7494116	0.7404808		-1.2	20
Total Xylenes	A	75.000	79.740	2.323025	2.469942		6.3	20
p- & m-Xylenes	A	50.000	53.160	2.383338	2.533955		6.3	20
o-Xylene	A	25.000	26.580	2.2024	2.341916		6.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	26JUL03.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/26/17
Lab Sample ID:	1713088-CCVB	Injection Time:	14:38

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Acetone	A	320.00	368.48	4.120558E-02	4.744878E-02		15.2	20
Acetonitrile	A	160.00	198.23	1.962376E-02	2.431241E-02		23.9	20 *
Acrolein	A	200.00	356.39	1.822349E-02	3.247303E-02		78.2	20 *
Acrylonitrile	A	80.000	95.590	6.794017E-02	8.118093E-02		19.5	20
Allyl chloride	A	32.000	36.860	1.003175	1.155617		15.2	20
t-Amyl Methyl ether	A	16.000	17.350	0.6727663	0.7294715		8.4	20
Benzyl chloride	L	32.000	37.300	0.5754497	0.7924949		16.6	20
t-Butyl alcohol	A	800.00	925.87	0.0118311	1.369252E-02		15.7	20
Carbon disulfide	A	32.000	35.780	1.516116	1.695304		11.8	20
Chloroprene	A	32.000	36.320	1.054363	1.196798		13.5	20
trans-1,4-Dichloro-2-butene	A	80.000	100.17	0.1052838	0.1318276		25.2	20 *
Diisopropyl ether	A	16.000	17.260	0.3736986	0.4031219		7.9	20
Ethanol	A	4000.0	4562.5	1.803136E-03	2.056698E-03		14.1	20
Ethyl t-butyl ether	A	16.000	17.790	1.222825	1.359364		11.2	20
Hexane	A	25.000	31.130	0.6427995	0.8002959		24.5	20 *
2-Hexanone	A	320.00	368.96	7.579232E-02	8.738847E-02		15.3	20
Isobutanol	A	400.00	515.97	5.666875E-03	7.309867E-03		29.0	20 *
Isopropyl alcohol	A	800.00	965.07	8.311588E-03	1.002661E-02		20.6	20 *
Methacrylonitrile	A	160.00	175.56	0.0669583	0.0734686		9.7	20
Methyl ethyl ketone	A	160.00	176.17	7.316144E-02	8.055378E-02		10.1	20
Methyl iodide	A	32.000	17.450	0.5894983	0.3215087		-45.5	20 *
Methyl isobutyl ketone	A	160.00	182.79	0.1118834	0.127823		14.2	20
Methyl methacrylate	A	80.000	90.810	7.466178E-02	0.084751		13.5	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	26JUL03.D	Calibration Date:	07/18/17 00:46
Sequence:	1713088	Injection Date:	07/26/17
Lab Sample ID:	1713088-CCVB	Injection Time:	14:38

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Propionitrile	A	400.00	476.52	2.456186E-02	2.926028E-02		19.1	20
Vinyl acetate	A	160.00	176.76	0.5836509	0.6447973		10.5	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	17JUL58.D	Calibration Date:	07/18/17 00:46
Sequence:	1713164	Injection Date:	07/18/17
Lab Sample ID:	1713164-ICV3	Injection Time:	03:04

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Total Purgeable Petroleum Hydrocarb	A	1000.0	1035.6	3.648805	3.778585		3.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	20JUL12.D	Calibration Date:	07/18/17 00:46
Sequence:	1713164	Injection Date:	07/20/17
Lab Sample ID:	1713164-ICV1	Injection Time:	12:00

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Benzene	A	25.000	24.890	2.047739	2.039122		-0.4	20
Bromobenzene	A	25.000	25.230	1.167814	1.17861		0.9	20
Bromochloromethane	A	25.000	24.530	0.1664346	0.1632807		-1.9	20
Bromodichloromethane	A	25.000	25.280	0.2878825	0.2911282		1.1	20
Bromoform	A	25.000	26.740	0.245463	0.2625679	0.1	7.0	20
Bromomethane	A	25.000	25.110	0.406522	0.4083079		0.4	20
n-Butylbenzene	A	25.000	26.100	4.798501	5.009032		4.4	20
sec-Butylbenzene	A	25.000	26.640	6.314385	6.729672		6.6	20
tert-Butylbenzene	A	25.000	25.400	4.660614	4.735605		1.6	20
Carbon tetrachloride	A	25.000	25.480	0.449341	0.457984		1.9	20
Chlorobenzene	A	25.000	23.360	3.316137	3.09848	0.3	-6.6	20
Chloroethane	A	25.000	24.110	0.5145747	0.4963064		-3.6	20
Chloroform	A	25.000	24.930	0.7571101	0.7548645		-0.3	20
Chloromethane	A	25.000	21.800	0.9407238	0.8204025	0.1	-12.8	20
2-Chlorotoluene	A	25.000	24.160	4.677137	4.5199		-3.4	20
4-Chlorotoluene	A	25.000	24.370	4.223867	4.117292		-2.5	20
Dibromochloromethane	A	25.000	26.550	0.1504286	0.1597323		6.2	20
1,2-Dibromo-3-chloropropane	A	25.000	28.170	7.330085E-02	0.0826084		12.7	20
1,2-Dibromoethane	A	25.000	26.200	0.1293784	0.1355752		4.8	20
Dibromomethane	A	25.000	26.740	9.576412E-02	0.1024155		6.9	20
1,2-Dichlorobenzene	A	25.000	24.020	2.15653	2.071804		-3.9	20
1,3-Dichlorobenzene	A	25.000	24.340	2.49992	2.433885		-2.6	20
1,4-Dichlorobenzene	A	25.000	24.380	2.443238	2.382478		-2.5	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	20JUL12.D	Calibration Date:	07/18/17 00:46
Sequence:	1713164	Injection Date:	07/20/17
Lab Sample ID:	1713164-ICV1	Injection Time:	12:00

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Dichlorodifluoromethane	A	25.000	26.330	0.4975939	0.5240701		5.3	20
1,1-Dichloroethane	A	25.000	25.490	1.070106	1.090882	0.1	1.9	20
1,2-Dichloroethane	A	25.000	24.460	0.4067953	0.3979766		-2.2	20
1,1-Dichloroethene	A	25.000	25.940	0.8069668	0.8371807		3.7	20
cis-1,2-Dichloroethene	A	25.000	25.330	0.5222008	0.5290657		1.3	20
trans-1,2-Dichloroethene	A	25.000	26.540	0.5009588	0.5318602		6.2	20
1,2-Dichloropropane	A	25.000	24.220	0.379403	0.3675628		-3.1	20
1,3-Dichloropropane	A	25.000	23.670	0.2528371	0.2393712		-5.3	20
2,2-Dichloropropane	A	25.000	25.930	0.602219	0.6245229		3.7	20
1,1-Dichloropropene	A	25.000	24.420	0.6845791	0.6686965		-2.3	20
cis-1,3-Dichloropropene	A	25.000	26.090	0.3594295	0.375053		4.3	20
trans-1,3-Dichloropropene	A	25.000	26.130	0.2346113	0.2452383		4.5	20
Ethylbenzene	A	25.000	25.810	1.948304	2.0114		3.2	20
Hexachlorobutadiene	A	25.000	25.210	0.86466	0.872002		0.8	20
Isopropylbenzene	A	25.000	26.250	5.700983	5.985719		5.0	20
p-Isopropyltoluene	A	25.000	26.690	5.149437	5.497681		6.8	20
Methylene chloride	A	25.000	24.890	0.4314876	0.4296029		-0.4	20
Methyl t-butyl ether	A	25.000	25.570	0.603852	0.6175321		2.3	20
Naphthalene	A	25.000	26.500	1.569043	1.6633		6.0	20
n-Propylbenzene	A	25.000	24.270	7.403456	7.187232		-2.9	20
Styrene	A	25.000	26.450	3.356924	3.551577		5.8	20
1,1,1,2-Tetrachloroethane	A	25.000	26.860	0.8160317	0.8766748		7.4	20
1,1,2,2-Tetrachloroethane	A	25.000	25.920	0.5437402	0.5638488	0.3	3.7	20

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	20JUL12.D	Calibration Date:	07/18/17 00:46
Sequence:	1713164	Injection Date:	07/20/17
Lab Sample ID:	1713164-ICV1	Injection Time:	12:00

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Tetrachloroethene	A	25.000	25.470	0.3290699	0.3353122		1.9	20
Toluene	A	25.000	24.960	0.8662846	0.8648716		-0.2	20
1,2,3-Trichlorobenzene	A	25.000	26.670	1.048181	1.118245		6.7	20
1,2,4-Trichlorobenzene	A	25.000	27.060	1.248966	1.351767		8.2	20
1,1,1-Trichloroethane	A	25.000	25.790	0.6553918	0.6760837		3.2	20
1,1,2-Trichloroethane	A	25.000	25.220	0.1556498	0.1570429		0.9	20
Trichloroethene	A	25.000	25.390	0.3434012	0.3487116		1.5	20
Trichlorofluoromethane	A	25.000	25.570	0.6158835	0.6299322		2.3	20
1,2,3-Trichloropropane	A	25.000	25.960	0.1156016	0.1200231		3.8	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	26.470	0.4228091	0.4476203		5.9	20
1,2,4-Trimethylbenzene	A	25.000	26.050	4.672745	4.868982		4.2	20
1,3,5-Trimethylbenzene	A	25.000	27.000	4.717828	5.09494		8.0	20
Vinyl chloride	A	25.000	24.480	0.7494116	0.7337211		-2.1	20
Total Xylenes	A	75.000	76.780	2.323025	2.378206		2.4	20
Total Trihalomethanes	A	100.00	103.50	7387.704	7187.65		-2.7	20
p- & m-Xylenes	A	50.000	51.130	2.383338	2.437307		2.3	20
o-Xylene	A	25.000	25.650	2.2024	2.260003		2.6	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	20JUL24.D	Calibration Date:	07/18/17 00:46
Sequence:	1713164	Injection Date:	07/20/17
Lab Sample ID:	1713164-ICV2	Injection Time:	16:36

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Acetone	A	320.00	311.29	4.120558E-02	4.008438E-02		-2.7	20
Acetonitrile	A	160.00	156.48	1.962376E-02	1.919169E-02		-2.2	20
Allyl chloride	A	32.000	30.910	1.003175	0.9689626		-3.4	20
t-Amyl Methyl ether	A	16.000	15.740	0.6727663	0.6619595		-1.6	20
Benzyl chloride	L	32.000	28.550	0.5754497	0.592096		-10.8	20
t-Butyl alcohol	A	800.00	778.65	0.0118311	1.151529E-02		-2.7	20
Carbon disulfide	A	32.000	30.220	1.516116	1.431992		-5.5	20
Chloroprene	A	32.000	29.870	1.054363	0.9841485		-6.7	20
trans-1,4-Dichloro-2-butene	A	80.000	79.090	0.1052838	0.1040847		-1.1	20
Diisopropyl ether	A	16.000	15.560	0.3736986	0.3634691		-2.7	20
1,4-Dioxane	A	2000.0	1947.0	9.091868E-04	8.850741E-04		-2.7	20
Ethanol	A	4000.0	3929.6	1.803136E-03	1.771401E-03		-1.8	20
Ethyl Amyl Ketone	A	25.000	24.560	0.3958186	0.388863		-1.8	20
Ethyl t-butyl ether	A	16.000	14.950	1.222825	1.142353		-6.6	20
Hexane	A	25.000	24.860	0.6427995	0.6391492		-0.6	20
2-Hexanone	A	320.00	300.02	7.579232E-02	7.106038E-02		-6.2	20
Methyl ethyl ketone	A	160.00	150.32	7.316144E-02	6.873728E-02		-6.0	20
Methyl iodide	A	32.000	34.400	0.5894983	0.6336396		7.5	20
Methyl isobutyl ketone	A	160.00	150.81	0.1118834	0.1054587		-5.7	20
Vinyl acetate	A	160.00	149.46	0.5836509	0.5452114		-6.6	20

AMEC Environmental & Infrastructure- 9210 Sky Park Court #200 San Diego, CA 92123	Reported: 8/22/2017 1:10:14PM Project: Alameda Project Number: 5023146096 Project Manager: Kevin Olness

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	26JUL02.D	Calibration Date:	07/18/17 00:46
Sequence:	1713164	Injection Date:	07/26/17
Lab Sample ID:	1713164-CCV1	Injection Time:	14:15

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	24.950	2.047739	2.043753		-0.2	20	
Bromobenzene	A	25.000	26.320	1.167814	1.229674		5.3	20	
Bromochloromethane	A	25.000	25.110	0.1664346	0.1671378		0.4	20	
Bromodichloromethane	A	25.000	27.060	0.2878825	0.3115969		8.2	20	
Bromoform	A	25.000	28.460	0.245463	0.2794412	0.1	13.8	20	
Bromomethane	A	25.000	13.940	0.406522	0.2266287		-44.3	20	*
n-Butylbenzene	A	25.000	26.700	4.798501	5.12547		6.8	20	
sec-Butylbenzene	A	25.000	28.030	6.314385	7.080175		12.1	20	
tert-Butylbenzene	A	25.000	26.610	4.660614	4.96035		6.4	20	
Carbon tetrachloride	A	25.000	26.590	0.449341	0.4779156		6.4	20	
Chlorobenzene	A	25.000	25.270	3.316137	3.352356	0.3	1.1	20	
Chloroethane	A	25.000	23.460	0.5145747	0.4829793		-6.1	20	
Chloroform	A	25.000	24.950	0.7571101	0.7555304		-0.2	20	
Chloromethane	A	25.000	20.320	0.9407238	0.7646437	0.1	-18.7	20	
2-Chlorotoluene	A	25.000	26.710	4.677137	4.997074		6.8	20	
4-Chlorotoluene	A	25.000	26.950	4.223867	4.55312		7.8	20	
Dibromochloromethane	A	25.000	27.930	0.1504286	0.1680329		11.7	20	
1,2-Dibromo-3-chloropropane	A	25.000	24.680	7.330085E-02	7.235214E-02		-1.3	20	
1,2-Dibromoethane	A	25.000	25.990	0.1293784	0.1344987		4.0	20	
Dibromomethane	A	25.000	27.100	9.576412E-02	0.1038229		8.4	20	
1,2-Dichlorobenzene	A	25.000	27.240	2.15653	2.349532		8.9	20	
1,3-Dichlorobenzene	A	25.000	27.660	2.49992	2.765791		10.6	20	
1,4-Dichlorobenzene	A	25.000	27.690	2.443238	2.706089		10.8	20	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	26JUL02.D	Calibration Date:	07/18/17 00:46
Sequence:	1713164	Injection Date:	07/26/17
Lab Sample ID:	1713164-CCV1	Injection Time:	14:15

COMPOUND	(1) CAL TYPE	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Dichlorodifluoromethane	A	25.000	25.730	0.4975939	0.5121351		2.9	20
1,1-Dichloroethane	A	25.000	24.490	1.070106	1.048351	0.1	-2.0	20
1,2-Dichloroethane	A	25.000	25.900	0.4067953	0.421519		3.6	20
1,1-Dichloroethene	A	25.000	25.950	0.8069668	0.8375191		3.8	20
cis-1,2-Dichloroethene	A	25.000	24.740	0.5222008	0.516812		-1.0	20
trans-1,2-Dichloroethene	A	25.000	24.660	0.5009588	0.4941397		-1.4	20
1,2-Dichloropropane	A	25.000	26.000	0.379403	0.3945215		4.0	20
1,3-Dichloropropane	A	25.000	25.760	0.2528371	0.2604755		3.0	20
2,2-Dichloropropane	A	25.000	26.690	0.602219	0.642834		6.7	20
1,1-Dichloropropene	A	25.000	25.010	0.6845791	0.6849522		0.05	20
cis-1,3-Dichloropropene	A	25.000	27.600	0.3594295	0.396809		10.4	20
trans-1,3-Dichloropropene	A	25.000	28.170	0.2346113	0.2643592		12.7	20
Ethylbenzene	A	25.000	26.730	1.948304	2.083438		6.9	20
Hexachlorobutadiene	A	25.000	27.120	0.86466	0.9380393		8.5	20
Isopropylbenzene	A	25.000	27.050	5.700983	6.168603		8.2	20
p-Isopropyltoluene	A	25.000	27.520	5.149437	5.667732		10.1	20
Methylene chloride	A	25.000	23.700	0.4314876	0.4090826		-5.2	20
Methyl t-butyl ether	A	25.000	24.290	0.603852	0.5865836		-2.9	20
Naphthalene	A	25.000	26.250	1.569043	1.647587		5.0	20
n-Propylbenzene	A	25.000	25.690	7.403456	7.607573		2.8	20
Styrene	A	25.000	26.870	3.356924	3.60779		7.5	20
1,1,1,2-Tetrachloroethane	A	25.000	27.940	0.8160317	0.9119389		11.8	20
1,1,2,2-Tetrachloroethane	A	25.000	26.770	0.5437402	0.5822037	0.3	7.1	20

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	26JUL02.D	Calibration Date:	07/18/17 00:46
Sequence:	1713164	Injection Date:	07/26/17
Lab Sample ID:	1713164-CCV1	Injection Time:	14:15

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Tetrachloroethene	A	25.000	28.230	0.3290699	0.3715711		12.9	20
Toluene	A	25.000	27.220	0.8662846	0.943272		8.9	20
1,2,3-Trichlorobenzene	A	25.000	25.580	1.048181	1.072686		2.3	20
1,2,4-Trichlorobenzene	A	25.000	27.010	1.248966	1.349498		8.0	20
1,1,1-Trichloroethane	A	25.000	26.060	0.6553918	0.6832564		4.3	20
1,1,2-Trichloroethane	A	25.000	25.270	0.1556498	0.1573339		1.1	20
Trichloroethene	A	25.000	27.410	0.3434012	0.3765402		9.7	20
Trichlorofluoromethane	A	25.000	26.560	0.6158835	0.6543199		6.2	20
1,2,3-Trichloropropane	A	25.000	27.330	0.1156016	0.1263937		9.3	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	26.850	0.4228091	0.4540829		7.4	20
1,2,4-Trimethylbenzene	A	25.000	27.050	4.672745	5.055609		8.2	20
1,3,5-Trimethylbenzene	A	25.000	27.290	4.717828	5.149092		9.1	20
Vinyl chloride	A	25.000	24.700	0.7494116	0.7404808		-1.2	20
Total Xylenes	A	75.000	79.740	2.323025	2.469942		6.3	20
Total Trihalomethanes	A	100.00	108.40	7387.704	6624.49		-10.3	20
p- & m-Xylenes	A	50.000	53.160	2.383338	2.533955		6.3	20
o-Xylene	A	25.000	26.580	2.2024	2.341916		6.3	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	26JUL03.D	Calibration Date:	07/18/17 00:46
Sequence:	1713164	Injection Date:	07/26/17
Lab Sample ID:	1713164-CCV2	Injection Time:	14:38

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Acetone	A	320.00	368.48	4.120558E-02	4.744878E-02		15.2	20	
Acetonitrile	A	160.00	198.23	1.962376E-02	2.431241E-02		23.9	20	*
Allyl chloride	A	32.000	36.860	1.003175	1.155617		15.2	20	
t-Amyl Methyl ether	A	16.000	17.350	0.6727663	0.7294715		8.4	20	
Benzyl chloride	L	32.000	37.300	0.5754497	0.7924949		16.6	20	
t-Butyl alcohol	A	800.00	925.87	0.0118311	1.369252E-02		15.7	20	
Carbon disulfide	A	32.000	35.780	1.516116	1.695304		11.8	20	
Chloroprene	A	32.000	36.320	1.054363	1.196798		13.5	20	
trans-1,4-Dichloro-2-butene	A	80.000	100.17	0.1052838	0.1318276		25.2	20	*
Diisopropyl ether	A	16.000	17.260	0.3736986	0.4031219		7.9	20	
1,4-Dioxane	A	2000.0	2164.8	9.091868E-04	9.841195E-04		8.2	20	
Ethanol	A	4000.0	4562.5	1.803136E-03	2.056698E-03		14.1	20	
Ethyl Amyl Ketone	A	25.000	29.440	0.3958186	0.4661314		17.8	20	
Ethyl t-butyl ether	A	16.000	17.790	1.222825	1.359364		11.2	20	
Hexane	A	25.000	31.130	0.6427995	0.8002959		24.5	20	*
2-Hexanone	A	320.00	368.96	7.579232E-02	8.738847E-02		15.3	20	
Methyl ethyl ketone	A	160.00	176.17	7.316144E-02	8.055378E-02		10.1	20	
Methyl iodide	A	32.000	17.450	0.5894983	0.3215087		-45.5	20	*
Methyl isobutyl ketone	A	160.00	182.79	0.1118834	0.127823		14.2	20	
Vinyl acetate	A	160.00	176.76	0.5836509	0.6447973		10.5	20	

AMEC Environmental & Infrastructure- 9210 Sky Park Court #200 San Diego, CA 92123	Reported: 8/22/2017 1:10:14PM Project: Alameda Project Number: 5023146096 Project Manager: Kevin Olness

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	26JUL33.D	Calibration Date:	07/18/17 00:46
Sequence:	1713164	Injection Date:	07/27/17
Lab Sample ID:	1713164-CCV4	Injection Time:	02:08

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Benzene	A	25.000	23.550	2.047739	1.929078		-5.8	20	
Bromobenzene	A	25.000	25.920	1.167814	1.210738		3.7	20	
Bromochloromethane	A	25.000	24.490	0.1664346	0.1630666		-2.0	20	
Bromodichloromethane	A	25.000	26.050	0.2878825	0.3000245		4.2	20	
Bromoform	A	25.000	26.220	0.245463	0.25746	0.1	4.9	20	
Bromomethane	A	25.000	8.3800	0.406522	0.1362431		-66.5	20	*
n-Butylbenzene	A	25.000	24.830	4.798501	4.765646		-0.7	20	
sec-Butylbenzene	A	25.000	26.250	6.314385	6.631189		5.0	20	
tert-Butylbenzene	A	25.000	27.920	4.660614	5.205528		11.7	20	
Carbon tetrachloride	A	25.000	25.550	0.449341	0.4591967		2.2	20	
Chlorobenzene	A	25.000	24.480	3.316137	3.246846	0.3	-2.1	20	
Chloroethane	A	25.000	22.650	0.5145747	0.4663067		-9.4	20	
Chloroform	A	25.000	24.160	0.7571101	0.7317024		-3.4	20	
Chloromethane	A	25.000	18.890	0.9407238	0.7109127	0.1	-24.4	20	*
2-Chlorotoluene	A	25.000	26.230	4.677137	4.907396		4.9	20	
4-Chlorotoluene	A	25.000	26.240	4.223867	4.433906		5.0	20	
Dibromochloromethane	A	25.000	27.890	0.1504286	0.1678319		11.6	20	
1,2-Dibromo-3-chloropropane	A	25.000	23.820	7.330085E-02	6.982745E-02		-4.7	20	
1,2-Dibromoethane	A	25.000	24.520	0.1293784	0.1269031		-1.9	20	
Dibromomethane	A	25.000	25.400	9.576412E-02	9.729088E-02		1.6	20	
1,2-Dichlorobenzene	A	25.000	26.800	2.15653	2.311942		7.2	20	
1,3-Dichlorobenzene	A	25.000	26.340	2.49992	2.634056		5.4	20	
1,4-Dichlorobenzene	A	25.000	26.760	2.443238	2.615539		7.1	20	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	26JUL33.D	Calibration Date:	07/18/17 00:46
Sequence:	1713164	Injection Date:	07/27/17
Lab Sample ID:	1713164-CCV4	Injection Time:	02:08

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)
Dichlorodifluoromethane	A	25.000	23.960	0.4975939	0.4768825		-4.2	20
1,1-Dichloroethane	A	25.000	23.480	1.070106	1.004979	0.1	-6.1	20
1,2-Dichloroethane	A	25.000	25.860	0.4067953	0.4208019		3.4	20
1,1-Dichloroethene	A	25.000	24.470	0.8069668	0.7899134		-2.1	20
cis-1,2-Dichloroethene	A	25.000	23.220	0.5222008	0.4849538		-7.1	20
trans-1,2-Dichloroethene	A	25.000	23.900	0.5009588	0.4789297		-4.4	20
1,2-Dichloropropane	A	25.000	24.090	0.379403	0.3656581		-3.6	20
1,3-Dichloropropane	A	25.000	25.270	0.2528371	0.255602		1.1	20
2,2-Dichloropropane	A	25.000	20.450	0.602219	0.4926435		-18.2	20
1,1-Dichloropropene	A	25.000	23.730	0.6845791	0.6496982		-5.1	20
cis-1,3-Dichloropropene	A	25.000	24.680	0.3594295	0.3548615		-1.3	20
trans-1,3-Dichloropropene	A	25.000	25.680	0.2346113	0.2409795		2.7	20
Ethylbenzene	A	25.000	25.150	1.948304	1.960187		0.6	20
Hexachlorobutadiene	A	25.000	26.180	0.86466	0.9054562		4.7	20
Isopropylbenzene	A	25.000	25.990	5.700983	5.926044		3.9	20
p-Isopropyltoluene	A	25.000	26.140	5.149437	5.383398		4.5	20
Methylene chloride	A	25.000	23.130	0.4314876	0.399276		-7.5	20
Methyl t-butyl ether	A	25.000	23.410	0.603852	0.5654733		-6.4	20
Naphthalene	A	25.000	25.090	1.569043	1.574674		0.4	20
n-Propylbenzene	A	25.000	24.560	7.403456	7.272259		-1.8	20
Styrene	A	25.000	25.770	3.356924	3.460413		3.1	20
1,1,1,2-Tetrachloroethane	A	25.000	27.050	0.8160317	0.8828665		8.2	20
1,1,2,2-Tetrachloroethane	A	25.000	23.750	0.5437402	0.5164993	0.3	-5.0	20

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CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	26JUL33.D	Calibration Date:	07/18/17 00:46
Sequence:	1713164	Injection Date:	07/27/17
Lab Sample ID:	1713164-CCV4	Injection Time:	02:08

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Tetrachloroethene	A	25.000	27.290	0.3290699	0.3591559		9.1	20
Toluene	A	25.000	25.790	0.8662846	0.8937357		3.2	20
1,2,3-Trichlorobenzene	A	25.000	25.900	1.048181	1.086112		3.6	20
1,2,4-Trichlorobenzene	A	25.000	25.360	1.248966	1.267179		1.5	20
1,1,1-Trichloroethane	A	25.000	25.180	0.6553918	0.6602325		0.7	20
1,1,2-Trichloroethane	A	25.000	24.860	0.1556498	0.1547593		-0.6	20
Trichloroethene	A	25.000	27.560	0.3434012	0.3786128		10.3	20
Trichlorofluoromethane	A	25.000	25.380	0.6158835	0.6252985		1.5	20
1,2,3-Trichloropropane	A	25.000	27.800	0.1156016	0.1285559		11.2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	24.130	0.4228091	0.4080542		-3.5	20
1,2,4-Trimethylbenzene	A	25.000	25.750	4.672745	4.812256		3.0	20
1,3,5-Trimethylbenzene	A	25.000	26.780	4.717828	5.052989		7.1	20
Vinyl chloride	A	25.000	23.250	0.7494116	0.6969763		-7.0	20
Total Xylenes	A	75.000	76.810	2.323025	2.378927		2.4	20
Total Trihalomethanes	A	100.00	104.32	7387.704	6221.93		-15.8	20
p- & m-Xylenes	A	50.000	51.120	2.383338	2.436844		2.2	20
o-Xylene	A	25.000	25.690	2.2024	2.263093		2.8	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

CONTINUING CALIBRATION CHECK

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Instrument ID:	MS-V5	Calibration:	1707017
Lab File ID:	26JUL34.D	Calibration Date:	07/18/17 00:46
Sequence:	1713164	Injection Date:	07/27/17
Lab Sample ID:	1713164-CCV5	Injection Time:	02:31

COMPOUND	(1) CAL TYPE	CONC. (ug/L) STD	CONC. (ug/L) CCV	RESPONSE FACTOR ICAL	RESPONSE FACTOR CCV	RESPONSE FACTOR MIN (#)	% DIFF / DRIFT (2) CCV	% DIFF / DRIFT (2) LIMIT (#)	
Acetone	A	320.00	325.35	4.120558E-02	4.189492E-02		1.7	20	
Acetonitrile	A	160.00	162.31	1.962376E-02	1.990706E-02		1.4	20	
Allyl chloride	A	32.000	27.890	1.003175	0.8741976		-12.9	20	
t-Amyl Methyl ether	A	16.000	14.700	0.6727663	0.6180273		-8.1	20	
Benzyl chloride	L	32.000	19.840	0.5754497	0.392397		-38.0	20	*
t-Butyl alcohol	A	800.00	774.76	0.0118311	1.145789E-02		-3.2	20	
Carbon disulfide	A	32.000	27.520	1.516116	1.304052		-14.0	20	
Chloroprene	A	32.000	29.220	1.054363	0.9628737		-8.7	20	
trans-1,4-Dichloro-2-butene	A	80.000	57.190	0.1052838	7.526623E-02		-28.5	20	*
Diisopropyl ether	A	16.000	14.130	0.3736986	0.330019		-11.7	20	
1,4-Dioxane	A	2000.0	1753.0	9.091868E-04	7.968779E-04		-12.4	20	
Ethanol	A	4000.0	3761.2	1.803136E-03	1.695478E-03		-6.0	20	
Ethyl Amyl Ketone	A	25.000	24.990	0.3958186	0.395632		-0.05	20	
Ethyl t-butyl ether	A	16.000	14.880	1.222825	1.137602		-7.0	20	
Hexane	A	25.000	23.000	0.6427995	0.5914052		-8.0	20	
2-Hexanone	A	320.00	313.18	7.579232E-02	7.417694E-02		-2.1	20	
Methyl ethyl ketone	A	160.00	148.59	7.316144E-02	6.794385E-02		-7.1	20	
Methyl iodide	A	32.000	12.770	0.5894983	0.2352105		-60.1	20	*
Methyl isobutyl ketone	A	160.00	156.51	0.1118834	0.1094402		-2.2	20	
Vinyl acetate	A	160.00	90.750	0.5836509	0.3310216		-43.3	20	*

AMEC Environmental & Infrastructure- 9210 Sky Park Court #200 San Diego, CA 92123	Reported: 8/22/2017 1:10:14PM Project: Alameda Project Number: 5023146096 Project Manager: Kevin Olness

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1712752
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Cal Standard (1712752-CAL1)			Lab File ID: 20JUL03.D		Analyzed: 07/20/17 08:32			
1,2-Dichloroethane-d4 (Surrogate)	10.000	101		6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.6		8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.8		10.35	10.34333	0.0067	+/-1.0	
Cal Standard (1712752-CAL2)			Lab File ID: 20JUL05.D		Analyzed: 07/20/17 09:18			
1,2-Dichloroethane-d4 (Surrogate)	10.000	101		6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.8		8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101		10.34	10.34333	-0.0033	+/-1.0	
Cal Standard (1712752-CAL3)			Lab File ID: 20JUL06.D		Analyzed: 07/20/17 09:42			
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.6		6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.9		8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101		10.34	10.34333	-0.0033	+/-1.0	
Cal Standard (1712752-CAL4)			Lab File ID: 20JUL07.D		Analyzed: 07/20/17 10:05			
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.9		6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	101		8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	103		10.34	10.34333	-0.0033	+/-1.0	
Cal Standard (1712752-CAL5)			Lab File ID: 20JUL08.D		Analyzed: 07/20/17 10:28			
1,2-Dichloroethane-d4 (Surrogate)	10.000	94.0		6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100		8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101		10.34	10.34333	-0.0033	+/-1.0	
Cal Standard (1712752-CAL6)			Lab File ID: 20JUL09.D		Analyzed: 07/20/17 10:51			
1,2-Dichloroethane-d4 (Surrogate)	10.000	92.4		6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100		8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	102		10.35	10.34333	0.0067	+/-1.0	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713088
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (1713088-ICV1)			Lab File ID: 20JUL12.D		Analyzed: 07/20/17 12:00			
1,2-Dichloroethane-d4 (Surrogate)	10.000	100	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.4	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	104	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Initial Cal Blank (1713088-ICB1)			Lab File ID: 20JUL14.D		Analyzed: 07/20/17 12:46			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.6	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.2	85 - 114	10.35	10.34333	0.0067	+/-1.0	
Calibration Check (1713088-CCV4)			Lab File ID: 25JUL28.D		Analyzed: 07/25/17 16:02			
1,2-Dichloroethane-d4 (Surrogate)	10.000	96.8	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.1	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.0	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Calibration Blank (1713088-CCB2)			Lab File ID: 25JUL31.D		Analyzed: 07/25/17 17:10			
1,2-Dichloroethane-d4 (Surrogate)	10.000	93.6	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.3	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.6	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
15-MW2_170721 (1720121-02)			Lab File ID: 25JUL48.D		Analyzed: 07/25/17 23:42			
1,2-Dichloroethane-d4 (Surrogate)	10.000	102	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	102	85 - 114	10.35	10.34333	0.0067	+/-1.0	
15-MW3_170721 (1720121-03)			Lab File ID: 25JUL49.D		Analyzed: 07/26/17 00:05			
1,2-Dichloroethane-d4 (Surrogate)	10.000	99.1	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.3	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.8	85 - 114	10.35	10.34333	0.0067	+/-1.0	
27EW-15_170721 (1720121-04)			Lab File ID: 25JUL50.D		Analyzed: 07/26/17 00:28			
1,2-Dichloroethane-d4 (Surrogate)	10.000	105	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.8	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.8	85 - 114	10.35	10.34333	0.0067	+/-1.0	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713088
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
27MW02_170721 (1720121-05)			Lab File ID: 25JUL51.D		Analyzed: 07/26/17 00:50			
1,2-Dichloroethane-d4 (Surrogate)	10.000	99.9	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.4	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.4	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
27MW03_170721 (1720121-06)			Lab File ID: 25JUL52.D		Analyzed: 07/26/17 01:13			
1,2-Dichloroethane-d4 (Surrogate)	10.000	102	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.7	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	92.6	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
27MW04_170721 (1720121-07)			Lab File ID: 25JUL53.D		Analyzed: 07/26/17 01:36			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.2	85 - 114	10.35	10.34333	0.0067	+/-1.0	
27MW10_170721 (1720121-08)			Lab File ID: 25JUL54.D		Analyzed: 07/26/17 01:59			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.3	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.3	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
27MW11_170721 (1720121-09)			Lab File ID: 25JUL55.D		Analyzed: 07/26/17 02:22			
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.2	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.9	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	100	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Calibration Check (1713088-CCV7)			Lab File ID: 25JUL58.D		Analyzed: 07/26/17 03:31			
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.9	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.7	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	102	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Calibration Blank (1713088-CCB3)			Lab File ID: 25JUL61.D		Analyzed: 07/26/17 04:40			
1,2-Dichloroethane-d4 (Surrogate)	10.000	93.3	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.8	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.2	85 - 114	10.35	10.34333	0.0067	+/-1.0	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713088
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Blank (B[G2094-BLK1)			Lab File ID: 25JUL62.D		Analyzed: 07/26/17 05:03			
1,2-Dichloroethane-d4 (Surrogate)	10.000	99.3	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.9	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
15-MW1_170721 (1720121-01)			Lab File ID: 25JUL63.D		Analyzed: 07/26/17 05:26			
1,2-Dichloroethane-d4 (Surrogate)	10.000	103	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.7	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.7	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
LCS (B[G2094-BS1)			Lab File ID: 25JUL64.D		Analyzed: 07/26/17 05:49			
1,2-Dichloroethane-d4 (Surrogate)	10.000	94.2	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.6	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.7	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Matrix Spike (B[G2094-MS1)			Lab File ID: 25JUL65.D		Analyzed: 07/26/17 06:12			
1,2-Dichloroethane-d4 (Surrogate)	10.000	96.9	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.8	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	95.7	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Matrix Spike Dup (B[G2094-MSD1)			Lab File ID: 25JUL66.D		Analyzed: 07/26/17 06:35			
1,2-Dichloroethane-d4 (Surrogate)	10.000	96.9	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.9	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.9	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
27MW12_170721 (1720121-10)			Lab File ID: 25JUL83.D		Analyzed: 07/26/17 13:06			
1,2-Dichloroethane-d4 (Surrogate)	10.000	99.7	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.7	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.9	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
M14-15_170721 (1720121-11)			Lab File ID: 25JUL84.D		Analyzed: 07/26/17 13:29			
1,2-Dichloroethane-d4 (Surrogate)	10.000	102	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.8	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	95.6	85 - 114	10.34	10.34333	-0.0033	+/-1.0	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1713088	Instrument:	MS-V5
Matrix:	Water	Calibration:	1707017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Calibration Check (1713088-CCVA)			Lab File ID: 26JUL02.D		Analyzed: 07/26/17 14:15			
1,2-Dichloroethane-d4 (Surrogate)	10.000	99.2	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.9	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Calibration Blank (1713088-CCB4)			Lab File ID: 26JUL05.D		Analyzed: 07/26/17 15:24			
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.5	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.7	85 - 114	10.34	10.34333	-0.0033	+/-1.0	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

SURROGATE STANDARD RECOVERY AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Sequence: 1713164
Matrix: Water

SDG: 17-20121
Project: Alameda
Instrument: MS-V5
Calibration: 1707017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (1713164-ICV1)			Lab File ID: 20JUL12.D		Analyzed: 07/20/17 12:00			
1,2-Dichloroethane-d4 (Surrogate)	10.000	100	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.4	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	104	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Initial Cal Blank (1713164-ICB1)			Lab File ID: 20JUL14.D		Analyzed: 07/20/17 12:46			
1,2-Dichloroethane-d4 (Surrogate)	10.000	106	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.6	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.2	85 - 114	10.35	10.34333	0.0067	+/-1.0	
Calibration Check (1713164-CCV1)			Lab File ID: 26JUL02.D		Analyzed: 07/26/17 14:15			
1,2-Dichloroethane-d4 (Surrogate)	10.000	99.2	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.9	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Calibration Blank (1713164-CCB1)			Lab File ID: 26JUL05.D		Analyzed: 07/26/17 15:24			
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.5	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	100	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.7	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
M14-16_170721 (1720121-12)			Lab File ID: 26JUL13.D		Analyzed: 07/26/17 18:28			
1,2-Dichloroethane-d4 (Surrogate)	10.000	107	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	95.6	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	101	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
27EW-12_170721 (1720121-13)			Lab File ID: 26JUL14.D		Analyzed: 07/26/17 18:51			
1,2-Dichloroethane-d4 (Surrogate)	10.000	99.4	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	96.3	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.9	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
27MW13_170721 (1720121-14)			Lab File ID: 26JUL15.D		Analyzed: 07/26/17 19:14			
1,2-Dichloroethane-d4 (Surrogate)	10.000	102	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.1	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.4	85 - 114	10.34	10.34333	-0.0033	+/-1.0	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713164
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
EB19_170721 (1720121-15)			Lab File ID: 26JUL16.D		Analyzed: 07/26/17 19:37			
1,2-Dichloroethane-d4 (Surrogate)	10.000	103	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.7	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.7	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
EB20_170721 (1720121-16)			Lab File ID: 26JUL17.D		Analyzed: 07/26/17 20:00			
1,2-Dichloroethane-d4 (Surrogate)	10.000	101	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	99.6	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	100	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
EB21_170721 (1720121-17)			Lab File ID: 26JUL18.D		Analyzed: 07/26/17 20:23			
1,2-Dichloroethane-d4 (Surrogate)	10.000	103	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.8	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	100	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Calibration Check (1713164-CCV4)			Lab File ID: 26JUL33.D		Analyzed: 07/27/17 02:08			
1,2-Dichloroethane-d4 (Surrogate)	10.000	102	81 - 118	6.91	6.916667	-0.0067	+/-1.0	
Toluene-d8 (Surrogate)	10.000	98.9	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	103	85 - 114	10.34	10.34333	-0.0033	+/-1.0	
Calibration Blank (1713164-CCB2)			Lab File ID: 26JUL36.D		Analyzed: 07/27/17 03:17			
1,2-Dichloroethane-d4 (Surrogate)	10.000	96.4	81 - 118	6.92	6.916667	0.0033	+/-1.0	
Toluene-d8 (Surrogate)	10.000	97.2	89 - 112	8.6	8.6	0.0000	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	93.9	85 - 114	10.34	10.34333	-0.0033	+/-1.0	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1712752
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (1712752-CALD)			Lab File ID: 17JUL50.D			Analyzed: 07/18/17 00:00			
Pentafluorobenzene (IS)	203330	6.57	187618	6.58	108	50 - 200	-0.0100	+/-0.50	
Cal Standard (1712752-CALE)			Lab File ID: 17JUL51.D			Analyzed: 07/18/17 00:23			
Pentafluorobenzene (IS)	203353	6.57	187618	6.58	108	50 - 200	-0.0100	+/-0.50	
Cal Standard (1712752-CALF)			Lab File ID: 17JUL52.D			Analyzed: 07/18/17 00:46			
Pentafluorobenzene (IS)	209806	6.57	187618	6.58	112	50 - 200	-0.0100	+/-0.50	
Cal Standard (1712752-CALG)			Lab File ID: 17JUL53.D			Analyzed: 07/18/17 01:09			
Pentafluorobenzene (IS)	214428	6.57	187618	6.58	114	50 - 200	-0.0100	+/-0.50	
Cal Standard (1712752-CALH)			Lab File ID: 17JUL54.D			Analyzed: 07/18/17 01:32			
Pentafluorobenzene (IS)	210761	6.57	187618	6.58	112	50 - 200	-0.0100	+/-0.50	
Cal Standard (1712752-CALI)			Lab File ID: 17JUL55.D			Analyzed: 07/18/17 01:55			
Pentafluorobenzene (IS)	228564	6.57	187618	6.58	122	50 - 200	-0.0100	+/-0.50	
Cal Standard (1712752-CAL1)			Lab File ID: 20JUL03.D			Analyzed: 07/20/17 08:32			
Pentafluorobenzene (IS)	217011	6.57	187618	6.58	116	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	90897	9.61	72968	9.61	125	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	336200	7.38	281102	7.38	120	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL2)			Lab File ID: 20JUL05.D			Analyzed: 07/20/17 09:18			
Pentafluorobenzene (IS)	219386	6.58	187618	6.58	117	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	89283	9.61	72968	9.61	122	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	341653	7.38	281102	7.38	122	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL3)			Lab File ID: 20JUL06.D			Analyzed: 07/20/17 09:42			
Pentafluorobenzene (IS)	160100	6.58	187618	6.58	85	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	66101	9.62	72968	9.61	91	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	249503	7.38	281102	7.38	89	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL4)			Lab File ID: 20JUL07.D			Analyzed: 07/20/17 10:05			
Pentafluorobenzene (IS)	187618	6.58	187618	6.58	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	72968	9.61	72968	9.61	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	281102	7.38	281102	7.38	100	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1712752
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (1712752-CAL5)			Lab File ID: 20JUL08.D			Analyzed: 07/20/17 10:28			
Pentafluorobenzene (IS)	185328	6.58	187618	6.58	99	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	75612	9.62	72968	9.61	104	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	283937	7.38	281102	7.38	101	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL6)			Lab File ID: 20JUL09.D			Analyzed: 07/20/17 10:51			
Pentafluorobenzene (IS)	190235	6.57	187618	6.58	101	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	79131	9.61	72968	9.61	108	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	291095	7.38	281102	7.38	104	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL7)			Lab File ID: 20JUL15.D			Analyzed: 07/20/17 13:09			
Pentafluorobenzene (IS)	185398	6.57	187618	6.58	99	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	74464	9.62	72968	9.61	102	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	284772	7.38	281102	7.38	101	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL8)			Lab File ID: 20JUL17.D			Analyzed: 07/20/17 13:55			
Pentafluorobenzene (IS)	181609	6.57	187618	6.58	97	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	74489	9.61	72968	9.61	102	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	282158	7.38	281102	7.38	100	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CAL9)			Lab File ID: 20JUL18.D			Analyzed: 07/20/17 14:18			
Pentafluorobenzene (IS)	177625	6.58	187618	6.58	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	69283	9.62	72968	9.61	95	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	272450	7.38	281102	7.38	97	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CALA)			Lab File ID: 20JUL19.D			Analyzed: 07/20/17 14:41			
Pentafluorobenzene (IS)	178179	6.58	187618	6.58	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	71971	9.61	72968	9.61	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	269523	7.38	281102	7.38	96	50 - 200	0.0000	+/-0.50	
Cal Standard (1712752-CALB)			Lab File ID: 20JUL20.D			Analyzed: 07/20/17 15:04			
Pentafluorobenzene (IS)	174621	6.57	187618	6.58	93	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	69099	9.62	72968	9.61	95	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	263233	7.38	281102	7.38	94	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1712752	Instrument:	MS-V5
Matrix:	Water	Calibration:	1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (1712752-CALC)			Lab File ID: 20JUL21.D			Analyzed: 07/20/17 15:27			
Pentafluorobenzene (IS)	191859	6.57	187618	6.58	102	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	76272	9.62	72968	9.61	105	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	287684	7.38	281102	7.38	102	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Sequence: 1713088
Matrix: Water

SDG: 17-20121
Project: Alameda
Instrument: MS-V5
Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (1713088-ICV1)			Lab File ID: 20JUL12.D			Analyzed: 07/20/17 12:00			
Pentafluorobenzene (IS)	184644	6.58	187618	6.58	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	74559	9.62	72968	9.61	102	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	285117	7.38	281102	7.38	101	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (1713088-ICB1)			Lab File ID: 20JUL14.D			Analyzed: 07/20/17 12:46			
Pentafluorobenzene (IS)	181261	6.57	184644	6.58	98	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	73863	9.61	74559	9.62	99	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	281231	7.38	285117	7.38	99	50 - 200	0.0000	+/-0.50	
Initial Cal Check (1713088-ICV2)			Lab File ID: 20JUL24.D			Analyzed: 07/20/17 16:36			
Pentafluorobenzene (IS)	179876	6.58	187618	6.58	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	74706	9.62	72968	9.61	102	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	278423	7.38	281102	7.38	99	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (1713088-ICB2)			Lab File ID: 20JUL26.D			Analyzed: 07/20/17 17:22			
Pentafluorobenzene (IS)	171673	6.57	179876	6.58	95	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	71809	9.62	74706	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	268403	7.38	278423	7.38	96	50 - 200	0.0000	+/-0.50	
Calibration Check (1713088-CCV4)			Lab File ID: 25JUL28.D			Analyzed: 07/25/17 16:02			
Pentafluorobenzene (IS)	185391	6.57	187618	6.58	99	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	74177	9.62	72968	9.61	102	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	281755	7.38	281102	7.38	100	50 - 200	0.0000	+/-0.50	
Calibration Check (1713088-CCV5)			Lab File ID: 25JUL29.D			Analyzed: 07/25/17 16:25			
Pentafluorobenzene (IS)	183539	6.58	187618	6.58	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	71623	9.61	72968	9.61	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	282647	7.38	281102	7.38	101	50 - 200	0.0000	+/-0.50	
Calibration Blank (1713088-CCB2)			Lab File ID: 25JUL31.D			Analyzed: 07/25/17 17:10			
Pentafluorobenzene (IS)	188077	6.57	183539	6.58	102	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	77709	9.62	71623	9.61	108	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	290748	7.38	282647	7.38	103	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713088
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
15-MW2_170721 (1720121-02)			Lab File ID: 25JUL48.D			Analyzed: 07/25/17 23:42			
Pentafluorobenzene (IS)	172504	6.57	183539	6.58	94	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	68952	9.62	71623	9.61	96	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	263519	7.38	282647	7.38	93	50 - 200	0.0000	+/-0.50	
15-MW3_170721 (1720121-03)			Lab File ID: 25JUL49.D			Analyzed: 07/26/17 00:05			
Pentafluorobenzene (IS)	179151	6.57	183539	6.58	98	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	70371	9.61	71623	9.61	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	266859	7.38	282647	7.38	94	50 - 200	0.0000	+/-0.50	
27EW-15_170721 (1720121-04)			Lab File ID: 25JUL50.D			Analyzed: 07/26/17 00:28			
Pentafluorobenzene (IS)	171127	6.57	183539	6.58	93	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	69962	9.61	71623	9.61	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	256910	7.38	282647	7.38	91	50 - 200	0.0000	+/-0.50	
27MW02_170721 (1720121-05)			Lab File ID: 25JUL51.D			Analyzed: 07/26/17 00:50			
Pentafluorobenzene (IS)	170003	6.58	183539	6.58	93	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	67556	9.62	71623	9.61	94	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	254274	7.38	282647	7.38	90	50 - 200	0.0000	+/-0.50	
27MW03_170721 (1720121-06)			Lab File ID: 25JUL52.D			Analyzed: 07/26/17 01:13			
Pentafluorobenzene (IS)	166659	6.57	183539	6.58	91	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	68139	9.61	71623	9.61	95	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	247952	7.38	282647	7.38	88	50 - 200	0.0000	+/-0.50	
27MW04_170721 (1720121-07)			Lab File ID: 25JUL53.D			Analyzed: 07/26/17 01:36			
Pentafluorobenzene (IS)	176838	6.57	183539	6.58	96	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	72374	9.61	71623	9.61	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	262621	7.38	282647	7.38	93	50 - 200	0.0000	+/-0.50	
27MW10_170721 (1720121-08)			Lab File ID: 25JUL54.D			Analyzed: 07/26/17 01:59			
Pentafluorobenzene (IS)	171091	6.57	183539	6.58	93	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	67292	9.62	71623	9.61	94	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	260524	7.38	282647	7.38	92	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713088
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
27MW11_170721 (1720121-09)			Lab File ID: 25JUL55.D			Analyzed: 07/26/17 02:22			
Pentafluorobenzene (IS)	166085	6.57	183539	6.58	90	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	63437	9.62	71623	9.61	89	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	243804	7.38	282647	7.38	86	50 - 200	0.0000	+/-0.50	
Calibration Check (1713088-CCV7)			Lab File ID: 25JUL58.D			Analyzed: 07/26/17 03:31			
Pentafluorobenzene (IS)	164932	6.57	187618	6.58	88	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66016	9.62	72968	9.61	90	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	255405	7.38	281102	7.38	91	50 - 200	0.0000	+/-0.50	
Calibration Check (1713088-CCV8)			Lab File ID: 25JUL59.D			Analyzed: 07/26/17 03:54			
Pentafluorobenzene (IS)	170638	6.58	187618	6.58	91	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	69001	9.62	72968	9.61	95	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	257374	7.38	281102	7.38	92	50 - 200	0.0000	+/-0.50	
Calibration Blank (1713088-CCB3)			Lab File ID: 25JUL61.D			Analyzed: 07/26/17 04:40			
Pentafluorobenzene (IS)	180486	6.57	170638	6.58	106	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	70101	9.61	69001	9.62	102	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	269242	7.38	257374	7.38	105	50 - 200	0.0000	+/-0.50	
Blank (B[G2094-BLK1)			Lab File ID: 25JUL62.D			Analyzed: 07/26/17 05:03			
Pentafluorobenzene (IS)	179365	6.58	170638	6.58	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	69556	9.62	69001	9.62	101	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	262221	7.38	257374	7.38	102	50 - 200	0.0000	+/-0.50	
15-MW1_170721 (1720121-01)			Lab File ID: 25JUL63.D			Analyzed: 07/26/17 05:26			
Pentafluorobenzene (IS)	178738	6.58	170638	6.58	105	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	72996	9.61	69001	9.62	106	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	268816	7.38	257374	7.38	104	50 - 200	0.0000	+/-0.50	
LCS (B[G2094-BS1)			Lab File ID: 25JUL64.D			Analyzed: 07/26/17 05:49			
Pentafluorobenzene (IS)	181798	6.57	170638	6.58	107	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	70287	9.62	69001	9.62	102	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	274153	7.38	257374	7.38	107	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
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INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713088
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Matrix Spike (B[G2094-MS1)			Lab File ID: 25JUL65.D			Analyzed: 07/26/17 06:12			
Pentafluorobenzene (IS)	184936	6.58	170638	6.58	108	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	75766	9.61	69001	9.62	110	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	283319	7.38	257374	7.38	110	50 - 200	0.0000	+/-0.50	
Matrix Spike Dup (B[G2094-MSD1)			Lab File ID: 25JUL66.D			Analyzed: 07/26/17 06:35			
Pentafluorobenzene (IS)	185356	6.58	170638	6.58	109	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	75381	9.61	69001	9.62	109	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	275292	7.38	257374	7.38	107	50 - 200	0.0000	+/-0.50	
27MW12_170721 (1720121-10)			Lab File ID: 25JUL83.D			Analyzed: 07/26/17 13:06			
Pentafluorobenzene (IS)	173348	6.58	170638	6.58	102	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	68168	9.62	69001	9.62	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	256741	7.38	257374	7.38	100	50 - 200	0.0000	+/-0.50	
M14-15_170721 (1720121-11)			Lab File ID: 25JUL84.D			Analyzed: 07/26/17 13:29			
Pentafluorobenzene (IS)	169045	6.57	170638	6.58	99	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	67984	9.62	69001	9.62	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	253846	7.38	257374	7.38	99	50 - 200	0.0000	+/-0.50	
Calibration Check (1713088-CCVA)			Lab File ID: 26JUL02.D			Analyzed: 07/26/17 14:15			
Pentafluorobenzene (IS)	169599	6.57	187618	6.58	90	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66497	9.62	72968	9.61	91	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	246566	7.38	281102	7.38	88	50 - 200	0.0000	+/-0.50	
Calibration Check (1713088-CCVB)			Lab File ID: 26JUL03.D			Analyzed: 07/26/17 14:38			
Pentafluorobenzene (IS)	151381	6.58	187618	6.58	81	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	62028	9.61	72968	9.61	85	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	227574	7.38	281102	7.38	81	50 - 200	0.0000	+/-0.50	
Calibration Blank (1713088-CCB4)			Lab File ID: 26JUL05.D			Analyzed: 07/26/17 15:24			
Pentafluorobenzene (IS)	179088	6.57	151381	6.58	118	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	70946	9.61	62028	9.61	114	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	268187	7.38	227574	7.38	118	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Sequence: 1713164
Matrix: Water

SDG: 17-20121
Project: Alameda
Instrument: MS-V5
Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (1713164-ICV3)			Lab File ID: 17JUL58.D			Analyzed: 07/18/17 03:04			
Pentafluorobenzene (IS)	224918	6.58	187618	6.58	120	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (1713164-ICB3)			Lab File ID: 17JUL60.D			Analyzed: 07/18/17 03:50			
Pentafluorobenzene (IS)	229984	6.58	224918	6.58	102	50 - 200	0.0000	+/-0.50	
Initial Cal Check (1713164-ICV1)			Lab File ID: 20JUL12.D			Analyzed: 07/20/17 12:00			
Pentafluorobenzene (IS)	184644	6.58	187618	6.58	98	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	74559	9.62	72968	9.61	102	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	285117	7.38	281102	7.38	101	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (1713164-ICB1)			Lab File ID: 20JUL14.D			Analyzed: 07/20/17 12:46			
Pentafluorobenzene (IS)	181261	6.57	184644	6.58	98	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	73863	9.61	74559	9.62	99	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	281231	7.38	285117	7.38	99	50 - 200	0.0000	+/-0.50	
Initial Cal Check (1713164-ICV2)			Lab File ID: 20JUL24.D			Analyzed: 07/20/17 16:36			
Pentafluorobenzene (IS)	179876	6.58	187618	6.58	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	74706	9.62	72968	9.61	102	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	278423	7.38	281102	7.38	99	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (1713164-ICB2)			Lab File ID: 20JUL26.D			Analyzed: 07/20/17 17:22			
Pentafluorobenzene (IS)	171673	6.57	179876	6.58	95	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	71809	9.62	74706	9.62	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	268403	7.38	278423	7.38	96	50 - 200	0.0000	+/-0.50	
Calibration Check (1713164-CCV1)			Lab File ID: 26JUL02.D			Analyzed: 07/26/17 14:15			
Pentafluorobenzene (IS)	169599	6.57	187618	6.58	90	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66497	9.62	72968	9.61	91	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	246566	7.38	281102	7.38	88	50 - 200	0.0000	+/-0.50	
Calibration Check (1713164-CCV2)			Lab File ID: 26JUL03.D			Analyzed: 07/26/17 14:38			
Pentafluorobenzene (IS)	151381	6.58	187618	6.58	81	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	62028	9.61	72968	9.61	85	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	227574	7.38	281102	7.38	81	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
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INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713164
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Blank (1713164-CCB1)			Lab File ID: 26JUL05.D			Analyzed: 07/26/17 15:24			
Pentafluorobenzene (IS)	179088	6.57	151381	6.58	118	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	70946	9.61	62028	9.61	114	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	268187	7.38	227574	7.38	118	50 - 200	0.0000	+/-0.50	
M14-16_170721 (1720121-12)			Lab File ID: 26JUL13.D			Analyzed: 07/26/17 18:28			
Pentafluorobenzene (IS)	167867	6.57	151381	6.58	111	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	68013	9.61	62028	9.61	110	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	260864	7.38	227574	7.38	115	50 - 200	0.0000	+/-0.50	
27EW-12_170721 (1720121-13)			Lab File ID: 26JUL14.D			Analyzed: 07/26/17 18:51			
Pentafluorobenzene (IS)	169471	6.58	151381	6.58	112	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	67762	9.61	62028	9.61	109	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	255997	7.38	227574	7.38	112	50 - 200	0.0000	+/-0.50	
27MW13_170721 (1720121-14)			Lab File ID: 26JUL15.D			Analyzed: 07/26/17 19:14			
Pentafluorobenzene (IS)	157906	6.58	151381	6.58	104	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	65286	9.61	62028	9.61	105	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	238702	7.38	227574	7.38	105	50 - 200	0.0000	+/-0.50	
EB19_170721 (1720121-15)			Lab File ID: 26JUL16.D			Analyzed: 07/26/17 19:37			
Pentafluorobenzene (IS)	173601	6.58	151381	6.58	115	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	67241	9.62	62028	9.61	108	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	262730	7.38	227574	7.38	115	50 - 200	0.0000	+/-0.50	
EB20_170721 (1720121-16)			Lab File ID: 26JUL17.D			Analyzed: 07/26/17 20:00			
Pentafluorobenzene (IS)	168332	6.57	151381	6.58	111	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66457	9.62	62028	9.61	107	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	246124	7.38	227574	7.38	108	50 - 200	0.0000	+/-0.50	
EB21_170721 (1720121-17)			Lab File ID: 26JUL18.D			Analyzed: 07/26/17 20:23			
Pentafluorobenzene (IS)	163858	6.57	151381	6.58	108	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	64829	9.62	62028	9.61	105	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	247202	7.38	227574	7.38	109	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
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Project Manager: Kevin Olness

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713164
Instrument: MS-V5
Matrix: Water
Calibration: 1707017

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (1713164-CCV4)			Lab File ID: 26JUL33.D			Analyzed: 07/27/17 02:08			
Pentafluorobenzene (IS)	163543	6.57	187618	6.58	87	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	64330	9.61	72968	9.61	88	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	240779	7.38	281102	7.38	86	50 - 200	0.0000	+/-0.50	
Calibration Check (1713164-CCV5)			Lab File ID: 26JUL34.D			Analyzed: 07/27/17 02:31			
Pentafluorobenzene (IS)	164750	6.58	187618	6.58	88	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	66484	9.61	72968	9.61	91	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	244705	7.38	281102	7.38	87	50 - 200	0.0000	+/-0.50	
Calibration Blank (1713164-CCB2)			Lab File ID: 26JUL36.D			Analyzed: 07/27/17 03:17			
Pentafluorobenzene (IS)	174793	6.57	164750	6.58	106	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	70784	9.62	66484	9.61	106	50 - 200	0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	264674	7.38	244705	7.38	108	50 - 200	0.0000	+/-0.50	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION STANDARDS

EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Sequence: 1712752
Calibration: 1707017

SDG: 17-20121
Project: Alameda
Instrument: MS-V5

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
7F24002	8260 V5 BFB 50NG	1712752-TUN2	17JUL49.D	07/17/17 23:37
7G20063	8260 V5 1712752 TPPH IC1	1712752-CALD	17JUL50.D	07/18/17 00:00
7G20064	8260 V5 1712752 TPPH IC2	1712752-CALE	17JUL51.D	07/18/17 00:23
7G20065	8260 V5 1712752 TPPH IC3	1712752-CALF	17JUL52.D	07/18/17 00:46
7G20066	8260 V5 1712752 TPPH IC4	1712752-CALG	17JUL53.D	07/18/17 01:09
7G20067	8260 V5 1712752 TPPH IC5	1712752-CALH	17JUL54.D	07/18/17 01:32
7G20068	8260 V5 1712752 TPPH IC6	1712752-CALI	17JUL55.D	07/18/17 01:55
7F24002	8260 V5 BFB 50NG	1712752-TUN1	20JUL02.D	07/20/17 08:09
7G20044	8260 V5 1712752 IC1	1712752-CAL1	20JUL03.D	07/20/17 08:32
7G20045	8260 V5 1712752 IC2	1712752-CAL2	20JUL05.D	07/20/17 09:18
7G20046	8260 V5 1712752 IC3	1712752-CAL3	20JUL06.D	07/20/17 09:42
7G20047	8260 V5 1712752 IC4	1712752-CAL4	20JUL07.D	07/20/17 10:05
7G20048	8260 V5 1712752 IC5	1712752-CAL5	20JUL08.D	07/20/17 10:28
7G20049	8260 V5 1712752 IC6	1712752-CAL6	20JUL09.D	07/20/17 10:51
7G20056	8260 V5 1712752 XIC1	1712752-CAL7	20JUL15.D	07/20/17 13:09
7G20057	8260 V5 1712752 XIC2	1712752-CAL8	20JUL17.D	07/20/17 13:55
7G20058	8260 V5 1712752 XIC3	1712752-CAL9	20JUL18.D	07/20/17 14:18
7G20059	8260 V5 1712752 XIC4	1712752-CALA	20JUL19.D	07/20/17 14:41
7G20060	8260 V5 1712752 XIC5	1712752-CALB	20JUL20.D	07/20/17 15:04
7G20061	8260 V5 1712752 XIC6	1712752-CALC	20JUL21.D	07/20/17 15:27

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Benzene	0.5	2.205326	1	2.188152	10	2.178289	25	1.917287	50	1.970505	100	1.826874
Bromobenzene	0.5	1.219182	1	1.216805	10	1.171389	25	1.141355	50	1.141528	100	1.116624
Bromochloromethane	0.5	0.1707748	1	0.1767661	10	0.1705309	25	0.1543114	50	0.1624719	100	0.1637527
Bromodichloromethane	0.5	0.2888162	1	0.2612885	10	0.2951588	25	0.2850666	50	0.2984239	100	0.2985407
Bromoform	0.5	0.2057274	1	0.2048542	10	0.237243	25	0.2574389	50	0.2735148	100	0.2939998
Bromomethane	0.5	0.4056016	1	0.4036265	10	0.4194379	25	0.3840293	50	0.4138878	100	0.4125492
n-Butylbenzene	0.5	5.079156	1	5.143868	10	5.21983	25	4.812707	50	4.647704	100	3.887741
sec-Butylbenzene	0.5	6.710012	1	6.711804	10	7.08428	25	6.565459	50	6.055303	100	4.759451
tert-Butylbenzene	0.5	4.756373	1	4.697087	10	4.878822	25	4.997994	50	4.368193	100	4.265216
Carbon tetrachloride	0.5	0.4114077	1	0.4033074	10	0.4811493	25	0.4442985	50	0.4811005	100	0.4747828
Chlorobenzene	0.5	3.718715	1	3.505819	10	3.379041	25	3.237474	50	3.173113	100	2.882659
Chloroethane	0.5	0.5656856	1	0.5508556	10	0.5391568	25	0.46994	50	0.4862093	100	0.4756012
Chloroform	0.5	0.7884393	1	0.8118567	10	0.7797252	25	0.7046062	50	0.7411616	100	0.7168718
Chloromethane	0.5	1.10575	1	0.9995168	10	0.9853529	25	0.8464923	50	0.8754543	100	0.8317765
2-Chlorotoluene	0.5	4.687283	1	5.164477	10	5.044175	25	4.655328	50	4.583238	100	3.928318
4-Chlorotoluene	0.5	4.382323	1	4.481816	10	4.64285	25	4.255438	50	4.026009	100	3.554765
Dibromochloromethane	0.5	0.1380726	1	0.1181608	10	0.1512567	25	0.1562949	50	0.1665531	100	0.1722335
1,2-Dibromo-3-chloropropane	0.5		1	6.507398E-02	10	6.963586E-02	25	7.759018E-02	50	7.440618E-02	100	7.979806E-02
1,2-Dibromoethane	0.5	0.1390244	1	0.1129216	10	0.1365675	25	0.1245114	50	0.1307515	100	0.1324942
Dibromomethane	0.5	8.863772E-02	1	0.0959453	10	0.103105	25	9.070871E-02	50	0.0977421	100	9.844587E-02
1,2-Dichlorobenzene	0.5	2.246939	1	2.140833	10	2.244323	25	2.128007	50	2.159181	100	2.0199
1,3-Dichlorobenzene	0.5	2.530337	1	2.604527	10	2.703227	25	2.506085	50	2.452092	100	2.203254
1,4-Dichlorobenzene	0.5	2.395899	1	2.476843	10	2.57751	25	2.471593	50	2.453264	100	2.28432
Dichlorodifluoromethane	0.5	0.4018229	1	0.4651619	10	0.5834478	25	0.4982614	50	0.527767	100	0.5091024
1,1-Dichloroethane	0.5	1.128238	1	1.080744	10	1.129469	25	1.011244	50	1.063002	100	1.007938

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Project Manager: Kevin Olness

INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dichloroethane	0.5	0.3840358	1	0.4451059	10	0.4391068	25	0.3850974	50	0.4008601	100	0.3865656
1,1-Dichloroethene	0.5	0.7938768	1	0.8264429	10	0.8811618	25	0.7704058	50	0.8053397	100	0.7645738
cis-1,2-Dichloroethene	0.5	0.5379451	1	0.5619319	10	0.5358463	25	0.4858169	50	0.5074463	100	0.5042185
trans-1,2-Dichloroethene	0.5	0.5264249	1	0.5006701	10	0.5310431	25	0.4693174	50	0.4927404	100	0.4855568
Total 1,2-Dichloroethene	1	0.532185	2	0.531301	20	0.5334447	50	0.4775672	100	0.5000933	200	0.4948876
1,2-Dichloropropane	0.5	0.3746579	1	0.39104	10	0.3895945	25	0.3719575	50	0.37968	100	0.369488
1,3-Dichloropropane	0.5	0.2577037	1	0.2665863	10	0.2493798	25	0.2444977	50	0.2531674	100	0.2456878
2,2-Dichloropropane	0.5	0.5992323	1	0.5587868	10	0.64	25	0.578	50	0.6240741	100	0.613221
1,1-Dichloropropene	0.5	0.685956	1	0.7289435	10	0.7278951	25	0.6364805	50	0.6776871	100	0.6505123
cis-1,3-Dichloropropene	0.5	0.3328971	1	0.3317694	10	0.3690938	25	0.3615001	50	0.3821143	100	0.3792023
trans-1,3-Dichloropropene	0.5	0.1857228	1	0.2073449	10	0.2445983	25	0.2456873	50	0.260574	100	0.2637407
Total 1,3-Dichloropropene	1	0.2593099	2	0.2695571	20	0.306846	50	0.3035937	100	0.3213442	200	0.3214715
Ethylbenzene	0.5	1.933397	1	2.1032	10	2.063766	25	1.930792	50	1.927625	100	1.731043
Hexachlorobutadiene	0.5	0.9727494	1	0.8039604	10	0.8502897	25	0.8577897	50	0.8736814	100	0.8294891
Isopropylbenzene	0.5	6.01384	1	6.197708	10	6.294564	25	5.807965	50	5.443937	100	4.447883
p-Isopropyltoluene	0.5	5.675215	1	5.416149	10	5.722833	25	5.274992	50	4.860035	100	3.9474
Methylene chloride	0.5	~~0.6828225~~	1	0.4693098	10	0.4590943	25	0.4047202	50	0.4129435	100	0.4113701
Methyl t-butyl ether	0.5	0.5949007	1	0.621872	10	0.627589	25	0.5721711	50	0.6097697	100	0.5968097
Naphthalene	0.5	1.449333	1	1.295095	10	1.630989	25	1.613008	50	1.707123	100	1.718713
n-Propylbenzene	0.5	7.843163	1	7.570982	10	7.957535	25	7.067525	50	6.578078	100	~~5.048542~~
Styrene	0.5	3.322662	1	3.513659	10	3.615951	25	3.422815	50	3.346784	100	2.919674
1,1,1,2-Tetrachloroethane	0.5	0.7348977	1	0.7534469	10	0.8415455	25	0.8637923	50	0.8877083	100	0.8147995
1,1,2,2-Tetrachloroethane	0.5	0.4990264	1	0.5452326	10	0.5402339	25	0.5664291	50	0.5528699	100	0.5586496
Tetrachloroethene	0.5	0.3402142	1	0.3382379	10	0.3457113	25	0.312086	50	0.3232717	100	0.3148982
Toluene	0.5	0.9042237	1	0.868103	10	0.9403254	25	0.8511615	50	0.847993	100	0.7859008
1,2,3-Trichlorobenzene	0.5	1.097286	1	0.9971663	10	1.056308	25	1.020776	50	1.070089	100	1.047459

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
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INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2,4-Trichlorobenzene	0.5	1.251086	1	1.203365	10	1.227546	25	1.250998	50	1.293432	100	1.267368
1,1,1-Trichloroethane	0.5	0.6254982	1	0.6510899	10	0.6849219	25	0.6308968	50	0.6766241	100	0.6633196
1,1,2-Trichloroethane	0.5	0.1444973	1	0.1708459	10	0.1625271	25	0.1509673	50	0.1515498	100	0.1535111
Trichloroethene	0.5	0.3308745	1	0.3413405	10	0.3603684	25	0.3346927	50	0.3492275	100	0.3439039
Trichlorofluoromethane	0.5	0.5650405	1	0.6137128	10	0.6705809	25	0.6016331	50	0.629348	100	0.6149857
1,2,3-Trichloropropane	0.5	~~0.0503867~~	1	9.329884E-02	10	0.1102858	25	0.1262033	50	0.1224488	100	0.1257712
1,1,2-Trichloro-1,2,2-trifluoroethan	0.5	0.3727	1	0.3929148	10	0.477208	25	0.4199171	50	0.4389687	100	0.435146
1,2,4-Trimethylbenzene	0.5	4.913914	1	5.052026	10	5.080891	25	4.637967	50	4.517373	100	3.8343
1,3,5-Trimethylbenzene	0.5	4.969581	1	4.782097	10	5.249436	25	4.834843	50	4.626234	100	3.844775
Vinyl chloride	0.5	0.7736935	1	0.7846444	10	0.7935103	25	0.7054398	50	0.7348614	100	0.7043199
Total Xylenes	1.5	2.506427	3	2.392803	30	2.534773	75	2.325878	150	2.240477	300	1.937794
Total Trihalomethanes	2	8333	4	8151	40	6297.45	100	6876.23	200	7251.58	400	7416.965
Acetone												
Acetonitrile												
Acrolein												
Acrylonitrile												
Allyl chloride												
t-Amyl Alcohol												
t-Amyl Methyl ether												
Benzyl chloride												
t-Butyl alcohol												
Carbon disulfide												
2-Chloroethyl vinyl ether	2	9.159726E-02	4	9.464281E-02	40	0.1049256	100	0.0975998	200	0.1009555	400	9.820488E-02
Chloroprene												
Chlorotrifluoroethene												
Cyclohexane												

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INITIAL CALIBRATION DATA
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Cyclohexanone												
trans-1,4-Dichloro-2-butene												
1,2-Dichlorotrifluoroethane												
2,2-Dichloro-1,1,1-trifluoroethane												
Diethyl ether												
Diisopropyl ether												
1,4-Dioxane												
Ethanol												
Ethyl Amyl Ketone												
Ethyl methacrylate												
Ethyl t-butyl ether												
Hexachloroethane	0.5	0.5014467	1	0.4756785	10	0.6755117	25	0.7837627	50	0.8954399	100	0.9270817
Hexane												
2-Hexanone												
Isobutanol												
Isopropyl alcohol												
Methacrylonitrile												
Methyl acetate												
Methylcyclohexane												
Methyl ethyl ketone												
5-Methyl-3-heptanone												
Methyl iodide												
Methyl isobutyl ketone												
Methyl methacrylate												
Pentachloroethane												
Propionitrile												

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INITIAL CALIBRATION DATA
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Laboratory: BC Laboratories
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Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Tetrahydrofuran												
Vinyl acetate												
p- & m-Xylenes	1	2.665545	2	2.484628	20	2.59251	50	2.358552	100	2.274933	200	1.923861
o-Xylene	0.5	2.188191	1	2.209155	10	2.419298	25	2.260531	50	2.171565	100	1.965659
Total Purgeable Petroleum Hydroc												
1,2-Dichloroethane-d4 (Surrogate)	10	0.3012474	10	0.3018151	10	0.2951343	10	0.2961709	10	0.2815387	10	0.2765317
Toluene-d8 (Surrogate)	10	1.220306	10	1.23463	10	1.223885	10	1.247597	10	1.242184	10	1.240574
4-Bromofluorobenzene (Surrogate)	10	1.433469	10	1.499199	10	1.502352	10	1.520913	10	1.496218	10	1.506919

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Benzene												
Bromobenzene												
Bromochloromethane												
Bromodichloromethane												
Bromoform												
Bromomethane												
n-Butylbenzene												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
Chloromethane												
2-Chlorotoluene												
4-Chlorotoluene												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane												
Dibromomethane												
1,2-Dichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Calibration: 1707017
Matrix: Water

SDG: 17-20121
Project: Alameda
Instrument: MS-V5
Calibration Date: 07/18/17 00:46

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
Total 1,2-Dichloroethene												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Total 1,3-Dichloropropene												
Ethylbenzene												
Hexachlorobutadiene												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl t-butyl ether												
Naphthalene												
n-Propylbenzene												
Styrene												
1,1,1,2-Tetrachloroethane												
1,1,2,2-Tetrachloroethane												
Tetrachloroethene												
Toluene												

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,1-Trichloroethane												
1,1,2-Trichloroethane												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,1,2-Trichloro-1,2,2-trifluoroethan												
1,2,4-Trimethylbenzene												
1,3,5-Trimethylbenzene												
Vinyl chloride												
Total Xylenes												
Total Trihalomethanes												
Acetone	16	~~5.913292E-02~~	64	4.599338E-02	160	4.103835E-02	320	4.031304E-02	480	4.108004E-02	800	3.760307E-02
Acetonitrile	8	~~2.695552E-02~~	32	1.960255E-02	80	1.920197E-02	160	2.144367E-02	240	2.002026E-02	400	1.785035E-02
Acrolein	10	1.972513E-02	40	1.667181E-02	100	1.701337E-02	200	1.765107E-02	320	1.949597E-02	500	1.878359E-02
Acrylonitrile	4	6.941822E-02	16	6.623777E-02	40	0.0658311	80	7.210025E-02	128	6.893948E-02	200	6.511422E-02
Allyl chloride	1.6	1.050814	6.4	1.041274	16	0.9506615	32	1.007182	48	1.029587	80	0.9395298
t-Amyl Alcohol	50	8.032449E-03	800	9.524721E-03	1250	9.905137E-03	2500	9.740474E-03	5000	1.046225E-02	10000	9.871505E-03
t-Amyl Methyl ether	0.8	0.7471763	3.2	0.6725988	8	0.6496974	16	0.6548471	24	0.6800442	40	0.6322338
Benzyl chloride	1.6	0.4382151	6.4	0.4365577	16	0.5300994	32	0.633176	48	0.70099	80	0.7136597
t-Butyl alcohol	40	1.143621E-02	160	1.211876E-02	400	1.136453E-02	800	1.229585E-02	1200	1.204151E-02	2000	1.172973E-02
Carbon disulfide	1.6	1.612511	6.4	1.590032	16	1.436133	32	1.534608	48	1.516942	80	1.40647
2-Chloroethyl vinyl ether												
Chloroprene	1.6	1.071512	6.4	1.112796	16	1.008223	32	1.07318	48	1.076242	80	0.9842234

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Chlorotrifluoroethene	0.5		8		12.5		25		50		100	
Cyclohexane	0.5	1.482325	8	1.263236	12.5	1.329052	25	1.267676	50	1.334388	100	1.175706
Cyclohexanone	20	6.358106E-02	80	6.628495E-02	200	6.822814E-02	400	6.908269E-02	640	7.092473E-02	1000	5.899832E-02
trans-1,4-Dichloro-2-butene	4	~~8.074372E-02~~	16	8.737028E-02	40	9.320468E-02	80	0.1065481	120	0.123592	200	0.1157037
1,2-Dichlorotrifluoroethane	0.5	0.6859837	8	0.6588055	12.5	0.6793278	25	0.638394	50	0.676567	100	0.6141745
2,2-Dichloro-1,1,1-trifluoroethane	0.5	0.9083162	8	0.9597198	12.5	0.9983099	25	0.9543751	50	0.985508	100	0.8832252
Diethyl ether	0.5	0.2111134	8	0.2536562	12.5	0.2639223	25	0.2561604	50	0.2694052	100	0.246137
Diisopropyl ether	0.8	0.4214582	3.2	0.3704387	8	0.3696763	16	0.3639739	24	0.3752221	40	0.3414226
1,4-Dioxane	100	9.86052E-04	400	8.876232E-04	1000	8.434942E-04	2000	9.681734E-04	3200	8.77229E-04	5000	8.925488E-04
Ethanol	200	1.798563E-03	800	0.0016678	2000	1.751246E-03	4000	1.971753E-03	6400	1.840862E-03	10000	1.78859E-03
Ethyl Amyl Ketone	0.5	0.3451332	8	0.3841675	12.5	0.397604	25	0.4054744	50	0.4408544	100	0.4016782
Ethyl methacrylate	4	0.1854642	16	0.167105	40	0.168185	80	0.1715498	120	0.174425	200	0.1580578
Ethyl t-butyl ether	0.8	1.363755	3.2	1.239683	8	1.201105	16	1.195171	24	1.20526	40	1.131976
Hexachloroethane												
Hexane	0.5	0.4991424	8	0.6434221	12.5	0.6767831	25	0.6679351	50	0.7140733	100	0.6554412
2-Hexanone	16	8.885617E-02	64	7.654621E-02	160	7.424711E-02	320	7.624129E-02	480	7.405345E-02	800	0.0648097
Isobutanol	20	4.592822E-03	80	5.358352E-03	200	5.606193E-03	400	6.207101E-03	640	6.227684E-03	1000	0.0060091
Isopropyl alcohol	40	6.806977E-03	160	8.425725E-03	400	8.390992E-03	800	9.223449E-03	1280	8.736689E-03	2000	8.285694E-03
Methacrylonitrile	8	7.891132E-02	32	6.557701E-02	80	0.0643209	160	6.549839E-02	240	6.559205E-02	400	6.185011E-02
Methyl acetate	5	0.1224393	80	0.1260496	125	0.1300511	250	0.123479	500	0.1292004	1000	0.1133594
Methylcyclohexane	0.5	0.535165	8	0.6134506	12.5	0.6454469	25	0.6244736	50	0.6667758	100	0.5818325
Methyl ethyl ketone	8	8.272069E-02	32	0.0760769	80	0.071924	160	7.022643E-02	240	7.220876E-02	400	6.581187E-02
5-Methyl-3-heptanone	1	0.4077138	16	0.4610412	25	0.5059596	50	0.4652818	100	0.4843645	200	0.4239197
Methyl iodide	1.6	0.538234	6.4	0.5614139	16	0.5443807	32	0.6237074	48	0.6434877	80	0.6257662
Methyl isobutyl ketone	8	0.128875	32	0.1125832	80	0.108463	160	0.1101708	240	0.111068	400	0.1001404

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl methacrylate	4	8.296988E-02	16	7.179267E-02	40	7.090842E-02	80	7.345802E-02	120	0.0766102	200	7.223151E-02
Pentachloroethane	0.8	0.4131191	3.2	0.3821454	8	0.3937293	16	0.3502018	24	0.4275086	40	0.4334585
Propionitrile	20	2.373542E-02	80	2.597889E-02	200	2.474398E-02	400	2.572553E-02	640	2.474225E-02	1000	2.244508E-02
Tetrahydrofuran	16	5.489204E-02	64	5.170965E-02	160	0.0475095	320	0.0481561	480	4.794157E-02	800	4.440709E-02
Vinyl acetate	8	0.691573	32	0.6018218	80	0.5827319	160	0.5569901	240	0.5691374	400	0.499651
p- & m-Xylenes												
o-Xylene												
Total Purgeable Petroleum Hydroca												
1,2-Dichloroethane-d4 (Surrogate)												
Toluene-d8 (Surrogate)												
4-Bromofluorobenzene (Surrogate)												

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Benzene												
Bromobenzene												
Bromochloromethane												
Bromodichloromethane												
Bromoform												
Bromomethane												
n-Butylbenzene												
sec-Butylbenzene												
tert-Butylbenzene												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
Chloromethane												
2-Chlorotoluene												
4-Chlorotoluene												
Dibromochloromethane												
1,2-Dibromo-3-chloropropane												
1,2-Dibromoethane												
Dibromomethane												
1,2-Dichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
Total 1,2-Dichloroethene												
1,2-Dichloropropane												
1,3-Dichloropropane												
2,2-Dichloropropane												
1,1-Dichloropropene												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Total 1,3-Dichloropropene												
Ethylbenzene												
Hexachlorobutadiene												
Isopropylbenzene												
p-Isopropyltoluene												
Methylene chloride												
Methyl t-butyl ether												
Naphthalene												
n-Propylbenzene												
Styrene												
1,1,1,2-Tetrachloroethane												
1,1,2,2-Tetrachloroethane												
Tetrachloroethene												

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Toluene												
1,2,3-Trichlorobenzene												
1,2,4-Trichlorobenzene												
1,1,1-Trichloroethane												
1,1,2-Trichloroethane												
Trichloroethene												
Trichlorofluoromethane												
1,2,3-Trichloropropane												
1,1,2-Trichloro-1,2,2-trifluoroethan												
1,2,4-Trimethylbenzene												
1,3,5-Trimethylbenzene												
Vinyl chloride												
Total Xylenes												
Total Trihalomethanes												
Acetone												
Acetonitrile												
Acrolein												
Acrylonitrile												
Allyl chloride												
t-Amyl Alcohol												
t-Amyl Methyl ether												
Benzyl chloride												
t-Butyl alcohol												
Carbon disulfide												
2-Chloroethyl vinyl ether												

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Chloroprene												
Chlorotrifluoroethene												
Cyclohexane												
Cyclohexanone												
trans-1,4-Dichloro-2-butene												
1,2-Dichlorotrifluoroethane												
2,2-Dichloro-1,1,1-trifluoroethane												
Diethyl ether												
Diisopropyl ether												
1,4-Dioxane												
Ethanol												
Ethyl Amyl Ketone												
Ethyl methacrylate												
Ethyl t-butyl ether												
Hexachloroethane												
Hexane												
2-Hexanone												
Isobutanol												
Isopropyl alcohol												
Methacrylonitrile												
Methyl acetate												
Methylcyclohexane												
Methyl ethyl ketone												
5-Methyl-3-heptanone												
Methyl iodide												

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl isobutyl ketone												
Methyl methacrylate												
Pentachloroethane												
Propionitrile												
Tetrahydrofuran												
Vinyl acetate												
p- & m-Xylenes												
o-Xylene												
Total Purgeable Petroleum Hydroc	50	3.26912	500	3.855426	1000	3.833188	1500	3.697965	2000	3.767286	2500	3.469848
1,2-Dichloroethane-d4 (Surrogate)												
Toluene-d8 (Surrogate)												
4-Bromofluorobenzene (Surrogate)												

AMEC Environmental & Infrastructure-
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Reported: 8/22/2017 1:10:14PM
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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Benzene	2.047739	7.975319	6.936667	7.509294E-02			15	
Bromobenzene	1.167814	3.645673	10.44	2.779896E-03			15	
Bromochloromethane	0.1664346	4.747927	6.175	8.897551E-02			15	
Bromodichloromethane	0.2878825	4.896981	8.051667	0.0545546			15	
Bromoform	0.245463	14.7808	10.15333	4.894263E-02			SPCC (0.10)	
Bromomethane	0.406522	3.057725	2.436667	0.2126912			15	
n-Butylbenzene	4.798501	10.32777	11.19667	4.432301E-02			15	
sec-Butylbenzene	6.314385	13.16495	10.89	1.492901E-02			15	
tert-Butylbenzene	4.660614	6.172505	10.76167	3.643903E-02			15	
Carbon tetrachloride	0.449341	7.868999	6.71	1.409485E-02			15	
Chlorobenzene	3.316137	8.703972	9.636667	5.028739E-02			SPCC (0.30)	
Chloroethane	0.5145747	8.175335	2.566667	0.2020673			15	
Chloroform	0.7571101	5.641054	6.323333	8.020835E-02			CCC (20)	
Chloromethane	0.9407238	11.41846	1.948333	0.209787			SPCC (0.10)	
2-Chlorotoluene	4.677137	9.281955	10.54	8.602669E-03			15	
4-Chlorotoluene	4.223867	9.200021	10.61	1.653803E-02			15	
Dibromochloromethane	0.1504286	13.17659	9.235	5.969866E-02			15	
1,2-Dibromo-3-chloropropane	7.330085E-02	8.155469	11.664	4.802395E-02			15	
1,2-Dibromoethane	0.1293784	7.339435	9.32	1.632331E-02			15	
Dibromomethane	9.576412E-02	5.552506	7.905	6.711508E-02			15	
1,2-Dichlorobenzene	2.15653	3.913674	11.23833	3.489351E-02			15	
1,3-Dichlorobenzene	2.49992	6.777549	10.97833	3.290541E-02			15	
1,4-Dichlorobenzene	2.443238	3.991734	11.03	1.470375E-02			15	
Dichlorodifluoromethane	0.4975939	12.26991	1.76	8.063699E-03			15	
1,1-Dichloroethane	1.070106	5.014371	5.05	1.556668E-02			SPCC (0.10)	
1,2-Dichloroethane	0.4067953	6.904985	6.998333	5.804784E-02			15	

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INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1-Dichloroethene	0.8069668	5.313301	3.515	0.1557692			CCC (20)	
cis-1,2-Dichloroethene	0.5222008	5.332765	5.821667	7.057926E-02			15	
trans-1,2-Dichloroethene	0.5009588	4.773832	4.501667	0.0902417			15	
Total 1,2-Dichloroethene	0.5115798	4.674194	5.821667	7.057926E-02			15	
1,2-Dichloropropane	0.379403	2.403017	7.831667	0.0524673			CCC (20)	
1,3-Dichloropropane	0.2528371	3.287487	9.078333	4.054708E-02			15	
2,2-Dichloropropane	0.602219	4.985956	5.83	6.523725E-03			15	
1,1-Dichloropropene	0.6845791	5.607404	6.72	9.471379E-02			15	
cis-1,3-Dichloropropene	0.3594295	6.186595	8.398333	4.271731E-02			15	
trans-1,3-Dichloropropene	0.2346113	13.31409	8.82	1.724867E-02			15	
Total 1,3-Dichloropropene	0.2970204	8.91472	8.82	1.724867E-02			15	
Ethylbenzene	1.948304	6.711166	9.69	2.086988E-02			CCC (20)	
Hexachlorobutadiene	0.86466	6.731708	12.17167	3.249952E-02			15	
Isopropylbenzene	5.700983	12.01191	10.23	0.0167001			15	
p-Isopropyltoluene	5.149437	12.94217	10.97	1.272075E-02			15	
Methylene chloride	0.4314876	7.008245	4.15	2.617728E-02			15	
Methyl t-butyl ether	0.603852	3.358593	4.483333	0.1145828			15	
Naphthalene	1.569043	10.53489	12.26	1.714861E-02			15	
n-Propylbenzene	7.403456	7.766669	10.476	5.149431E-02			15	
Styrene	3.356924	7.155197	10.02	0.0198293			15	
1,1,1,2-Tetrachloroethane	0.8160317	7.468304	9.69	2.086988E-02			15	
1,1,2,2-Tetrachloroethane	0.5437402	4.378707	10.40833	0.0365974			SPCC (0.30)	
Tetrachloroethene	0.3290699	4.314963	9.03	1.545367E-02			15	
Toluene	0.8662846	6.097255	8.65	1.331998E-02			CCC (20)	
1,2,3-Trichlorobenzene	1.048181	3.389568	12.38	1.070383E-02			15	
1,2,4-Trichlorobenzene	1.248966	2.496908	12.11	2.449746E-02			15	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
1,1,1-Trichloroethane	0.6553918	3.673248	6.526667	7.946589E-02			15	
1,1,2-Trichloroethane	0.1556498	6.06719	8.963333	5.878091E-02			15	
Trichloroethene	0.3434012	3.079274	7.601667	5.324327E-02			15	
Trichlorofluoromethane	0.6158835	5.608974	2.866667	0.1807154			15	
1,2,3-Trichloropropane	0.1156016	12.14427	10.45	1.965805E-02			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.4228091	8.712896	3.531667	0.1142314			15	
1,2,4-Trimethylbenzene	4.672745	10.02384	10.79167	4.231581E-02			15	
1,3,5-Trimethylbenzene	4.717828	10.09625	10.57167	3.709394E-02			15	
Vinyl chloride	0.7494116	5.322207	2.07	5.801038E-03			CCC (20)	
Total Xylenes	2.323025	9.403007	10.01	9.924553E-03			15	
Total Trihalomethanes	7387.704	10.38989	10.15333	4.894263E-02			15	
Acetone	4.120558E-02	7.355169	3.554	0.1542441			15	
Acetonitrile	1.962376E-02	6.640588	3.908	0.1133817			15	
Acrolein	1.822349E-02	7.107257	3.39	2.140274E-03			15	
Acrylonitrile	6.794017E-02	3.939644	4.435	0.1236041			15	
Allyl chloride	1.003175	4.726935	3.98	1.761732E-02			15	
t-Amyl Alcohol	9.589422E-03	8.589473	6.96	9.150358E-02			15	
t-Amyl Methyl ether	0.6727663	5.977467	7.081667	5.899898E-02			15	
Benzyl chloride	0.5754497	21.75697	11.09	1.526915E-02	0.99878		0.99	
t-Butyl alcohol	0.0118311	3.22277	4.273333	0.2423085			15	
Carbon disulfide	1.516116	5.400329	3.79	0.013191			15	
2-Chloroethyl vinyl ether	9.798764E-02	4.768539	8.275	6.513453E-02			15	
Chloroprene	1.054363	4.56629	5.141667	8.153481E-02			15	
Chlorotrifluoroethene							15	
Cyclohexane	1.308731	7.841383	6.611667	5.923215E-02			15	
Cyclohexanone	6.618331E-02	6.533008	10.29167	4.271745E-02			15	

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Project Manager: Kevin Olness

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
trans-1,4-Dichloro-2-butene	0.1052838	14.34315	10.426	5.090708E-02			15	
1,2-Dichlorotrifluoroethane	0.6588754	4.230009	3.296667	0.1557001			15	
2,2-Dichloro-1,1,1-trifluoroethane	0.9482424	4.689324	3.386667	0.1519809			15	
Diethyl ether	0.2500657	8.290032	3.22	2.123135E-02			15	
Diisopropyl ether	0.3736986	7.025495	5.096667	0.1006095			15	
1,4-Dioxane	9.091868E-04	6.11724	7.891667	5.151265E-02			15	
Ethanol	1.803136E-03	5.606357	3.081667	0.5201438			15	
Ethyl Amyl Ketone	0.3958186	7.879599	10.75167	3.756474E-02			15	
Ethyl methacrylate	0.1707978	5.312147	8.848334	4.928121E-02			15	
Ethyl t-butyl ether	1.222825	6.328552	5.583333	9.166626E-02			15	
Hexachloroethane	0.7098202	27.21178	11.4	3.753579E-03	0.99925		0.99	
Hexane	0.6427995	11.57174	4.855	0.1138465			15	
2-Hexanone	7.579232E-02	10.17669	9.091667	4.757151E-02			15	
Isobutanol	5.666875E-03	11.0932	6.84	9.249917E-02			15	
Isopropyl alcohol	8.311588E-03	9.768502	3.746667	0.3235285			15	
Methacrylonitrile	0.0669583	9.006243	6.12	1.277828E-02			15	
Methyl acetate	0.1240965	4.884847	3.965	0.1388816			15	
Methylcyclohexane	0.6111907	7.704348	7.806667	6.510089E-02			15	
Methyl ethyl ketone	7.316144E-02	7.850683	5.796667	9.151477E-02			15	
5-Methyl-3-heptanone	0.4580468	8.020127	10.43167	3.686923E-02			15	
Methyl iodide	0.5894983	7.903214	3.7	1.260276E-02			15	
Methyl isobutyl ketone	0.1118834	8.407287	8.5	0			15	
Methyl methacrylate	7.466178E-02	6.064135	7.871667	5.057399E-02			15	
Pentachloroethane	0.4000271	7.814724	10.79333	5.134563E-02			15	
Propionitrile	2.456186E-02	5.336931	5.881667	0.0697539			15	
Tetrahydrofuran	4.910266E-02	7.462978	6.186667	8.404824E-02			15	

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San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL CALIBRATION DATA (Continued)

EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Calibration: 1707017
Instrument: MS-V5
Matrix: Water
Calibration Date: 07/18/17 00:46

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	LIMIT	Q
Vinyl acetate	0.5836509	10.82416	5.053333	0.1030703			15	
p- & m-Xylenes	2.383338	11.21367	9.77	1.748639E-02			15	
o-Xylene	2.2024	6.662899	10.01	9.924553E-03			15	
Total Purgeable Petroleum Hydrocarbons	3.648805	6.360727	9.568334	4.958059			15	
1,2-Dichloroethane-d4 (Surrogate)	0.292073	3.616111	6.916667	7.506552E-02			15	
Toluene-d8 (Surrogate)	1.234863	0.8727884	8.6	4.975675E-03			15	
4-Bromofluorobenzene (Surrogate)	1.493178	2.042971	10.34333	4.926945E-02			15	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

HOLDING TIME SUMMARY
EPA-8260B

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
15-MW1_170721	07/21/17 08:30	07/21/17 21:30	07/25/17 07:46	5.00	14.00	07/26/17 05:26	5.00	14.00	
15-MW2_170721	07/21/17 10:20	07/21/17 21:30	07/25/17 07:46	4.00	14.00	07/25/17 23:42	4.00	14.00	
15-MW3_170721	07/21/17 09:40	07/21/17 21:30	07/25/17 07:46	5.00	14.00	07/26/17 00:05	5.00	14.00	
27EW-15_170721	07/21/17 11:40	07/21/17 21:30	07/25/17 07:46	5.00	14.00	07/26/17 00:28	5.00	14.00	
27MW02_170721	07/21/17 12:25	07/21/17 21:30	07/25/17 07:46	5.00	14.00	07/26/17 00:50	5.00	14.00	
27MW03_170721	07/21/17 09:20	07/21/17 21:30	07/25/17 07:46	5.00	14.00	07/26/17 01:13	5.00	14.00	
27MW04_170721	07/21/17 11:45	07/21/17 21:30	07/25/17 07:46	5.00	14.00	07/26/17 01:36	5.00	14.00	
27MW10_170721	07/21/17 10:26	07/21/17 21:30	07/25/17 07:46	5.00	14.00	07/26/17 01:59	5.00	14.00	
27MW11_170721	07/21/17 10:50	07/21/17 21:30	07/25/17 07:46	5.00	14.00	07/26/17 02:22	5.00	14.00	
27MW12_170721	07/21/17 11:35	07/21/17 21:30	07/25/17 07:46	5.00	14.00	07/26/17 13:06	5.00	14.00	
M14-15_170721	07/21/17 08:20	07/21/17 21:30	07/25/17 07:46	5.00	14.00	07/26/17 13:29	5.00	14.00	
M14-16_170721	07/21/17 09:15	07/21/17 21:30	07/25/17 07:46	5.00	14.00	07/26/17 18:28	5.00	14.00	
27EW-12_170721	07/21/17 12:56	07/21/17 21:30	07/25/17 07:46	5.00	14.00	07/26/17 18:51	5.00	14.00	
27MW13_170721	07/21/17 13:10	07/21/17 21:30	07/25/17 07:46	5.00	14.00	07/26/17 19:14	5.00	14.00	
EB19_170721	07/21/17 14:20	07/21/17 21:30	07/25/17 07:46	5.00	14.00	07/26/17 19:37	5.00	14.00	
EB20_170721	07/21/17 14:25	07/21/17 21:30	07/25/17 07:46	5.00	14.00	07/26/17 20:00	5.00	14.00	
EB21_170721	07/21/17 14:30	07/21/17 21:30	07/25/17 07:46	5.00	14.00	07/26/17 20:23	5.00	14.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument MS-V5

Raw Data - Samples

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL63.D Vial: 63
Acq On : 26 Jul 2017 5:26 am Operator: MGC
Sample : 1720121-01 Inst : MS-V5
Misc : 1 Unspiked;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 5:40 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	178738	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	268816	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	72996	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	53554	10.26	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 102.60%			
31) Toluene d8 SMC#2	8.60	98	327604	9.87	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.70%			
49) Bromofluorobenzene SMC#3	10.34	95	106497	9.77	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.70%			

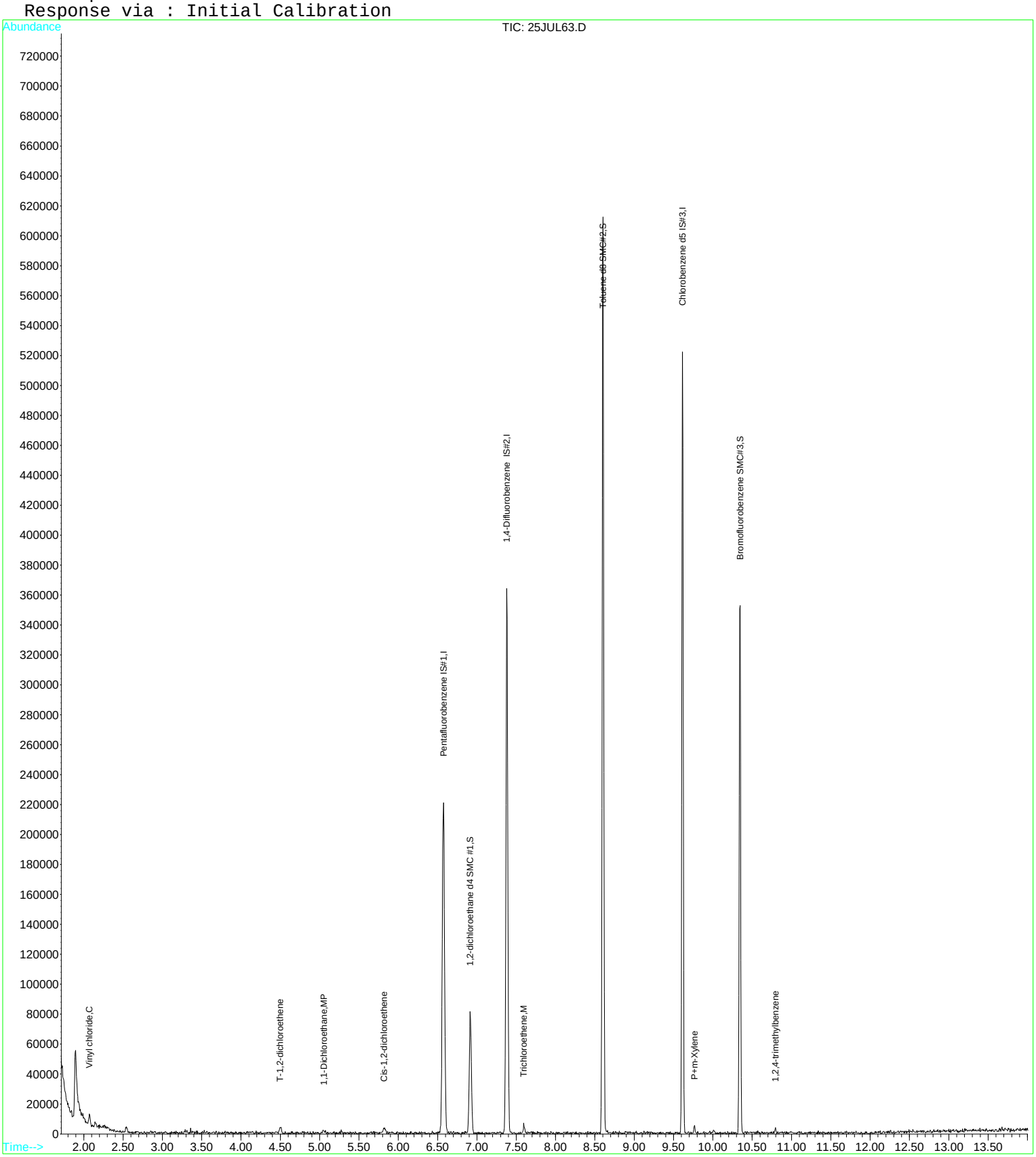
Target Compounds						Qvalue
4) Vinyl chloride	2.07	62	6945	0.52	ug/L #	62
12) T-1,2-dichloroethene	4.50	96	1184	0.13	ug/L #	43
13) 1,1-Dichloroethane	5.06	63	2782	0.15	ug/L	96
15) Cis-1,2-dichloroethene	5.82	96	1108	0.12	ug/L #	23
25) Trichloroethene	7.59	130	1731	0.19	ug/L #	82
43) P+m-Xylene	9.77	106	1735	0.10	ug/L #	81
57) 1,2,4-trimethylbenzene	10.80	105	2066	0.06	ug/L	87

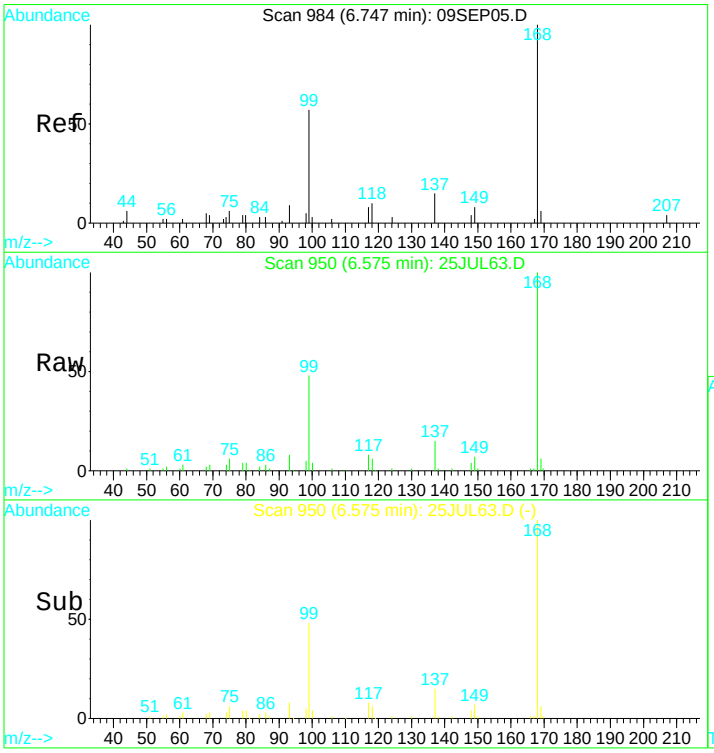
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL63.D Vial: 63
Acq On : 26 Jul 2017 5:26 am Operator: MGC
Sample : 1720121-01 Inst : MS-V5
Misc : 1 Unspiked;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 5:40 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

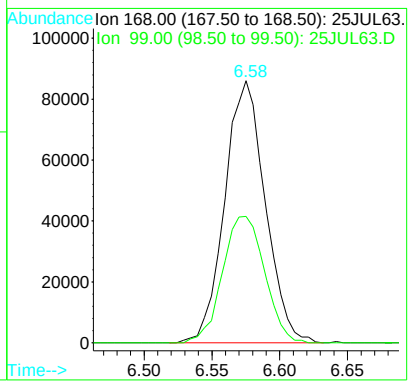


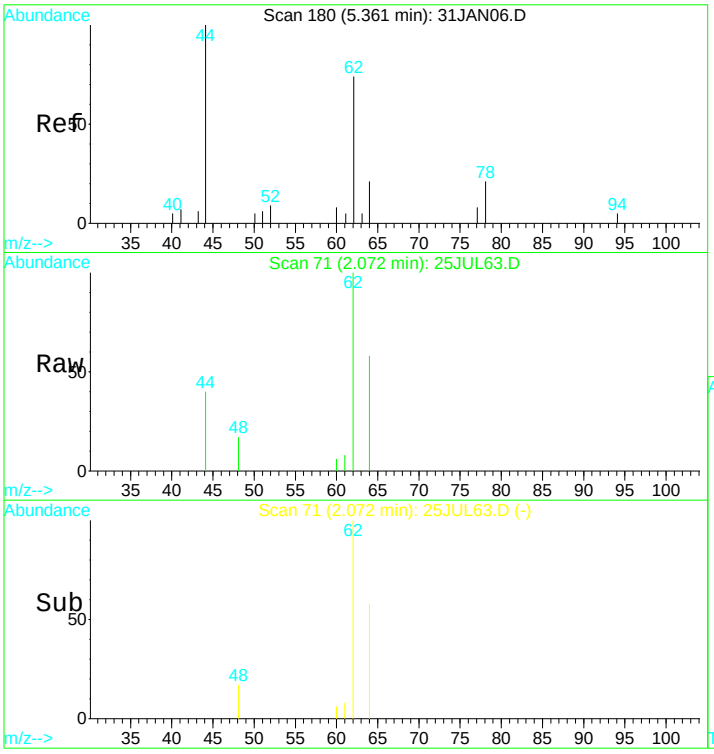


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 950
Delta R.T. -0.00 min
Lab File: 25JUL63.D
Acq: 26 Jul 2017 5:26 am

Tgt Ion:168 Resp: 178738

Ion	Ratio	Lower	Upper
168	100		
99	50.1	38.7	71.9

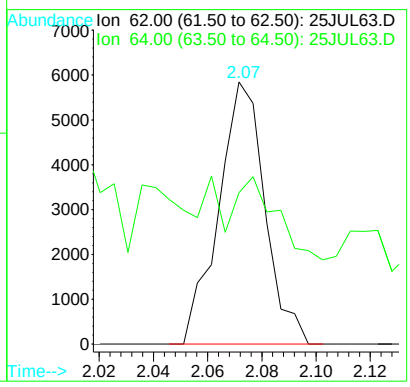


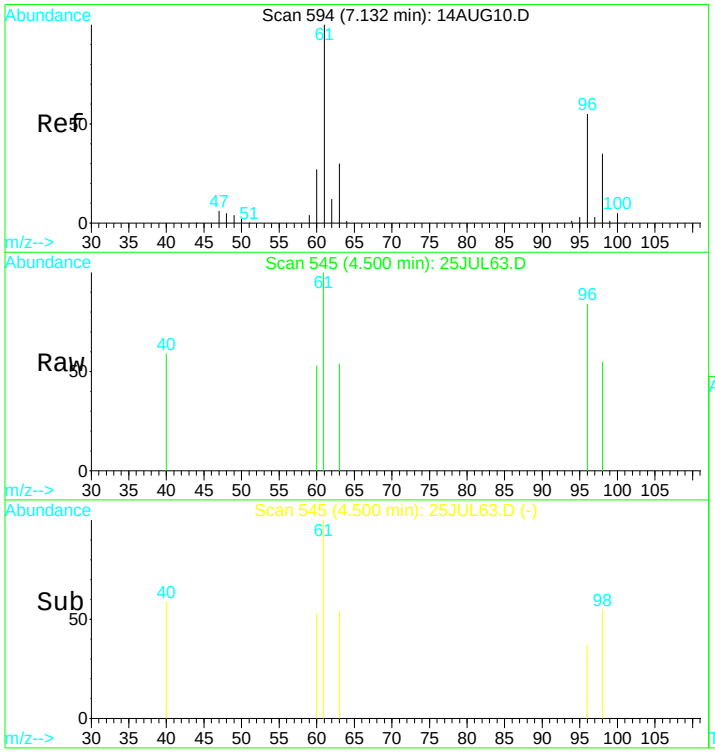


#4
Vinyl chloride
Concen: 0.52 ug/L
RT: 2.07 min Scan# 71
Delta R.T. -0.00 min
Lab File: 25JUL63.D
Acq: 26 Jul 2017 5:26 am

Tgt Ion: 62 Resp: 6945

Ion	Ratio	Lower	Upper
62	100		
64	84.0	39.3	72.9#

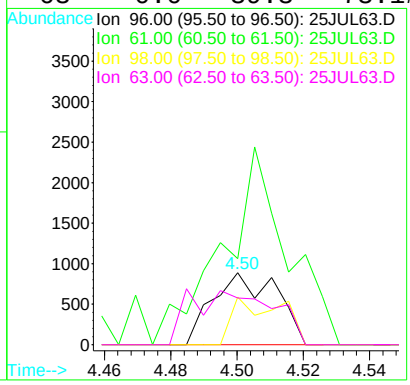


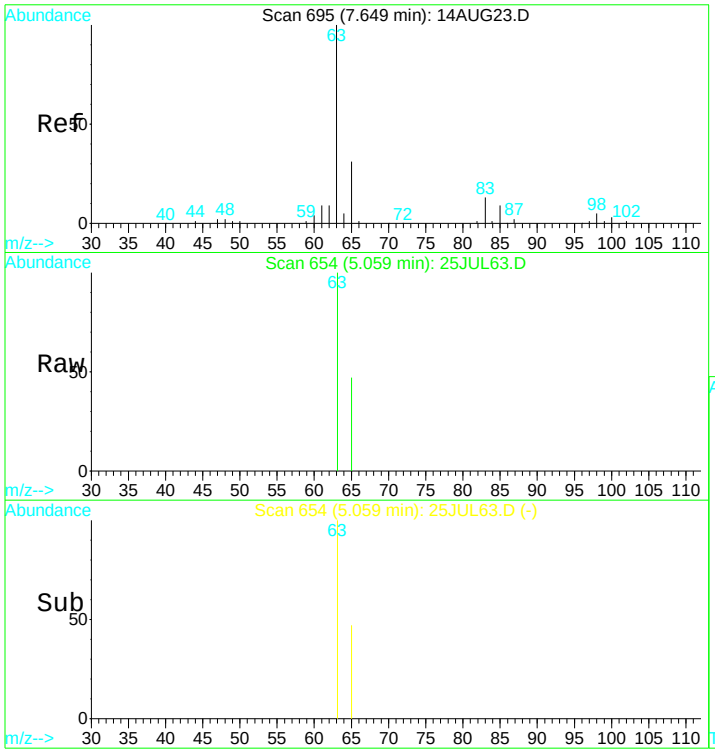


#12
T-1,2-dichloroethene
Concen: 0.13 ug/L
RT: 4.50 min Scan# 545
Delta R.T. -0.00 min
Lab File: 25JUL63.D
Acq: 26 Jul 2017 5:26 am

Tgt Ion: 96 Resp: 1184

Ion	Ratio	Lower	Upper
96	100		
61	280.0	129.4	240.4#
98	49.7	41.5	77.1
63	0.0	39.3	73.1#

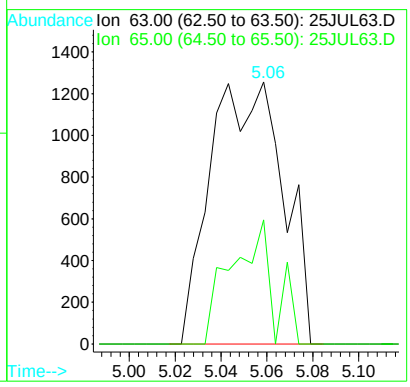


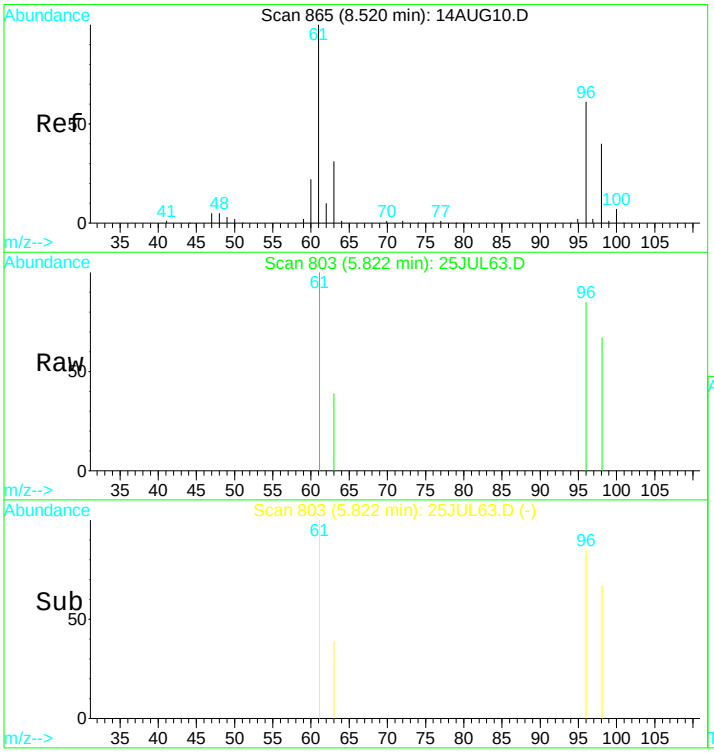


#13
1,1-Dichloroethane
Concen: 0.15 ug/L
RT: 5.06 min Scan# 654
Delta R.T. 0.01 min
Lab File: 25JUL63.D
Acq: 26 Jul 2017 5:26 am

Tgt Ion: 63 Resp: 2782

Ion	Ratio	Lower	Upper
63	100		
65	27.7	20.8	38.6

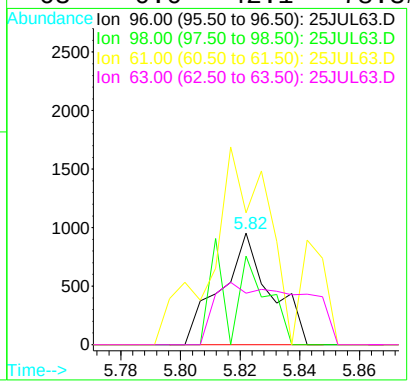


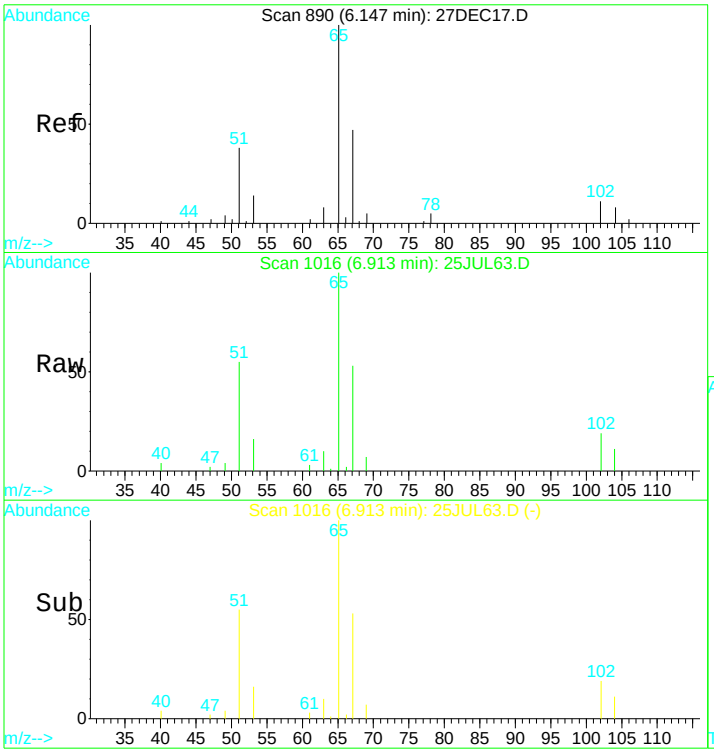


#15
Cis-1,2-dichloroethene
Concen: 0.12 ug/L
RT: 5.82 min Scan# 803
Delta R.T. -0.00 min
Lab File: 25JUL63.D
Acq: 26 Jul 2017 5:26 am

Tgt Ion: 96 Resp: 1108

Ion	Ratio	Lower	Upper
96	100		
98	44.2	51.9	96.3#
61	45.3	122.8	228.0#
63	0.0	42.1	78.3#

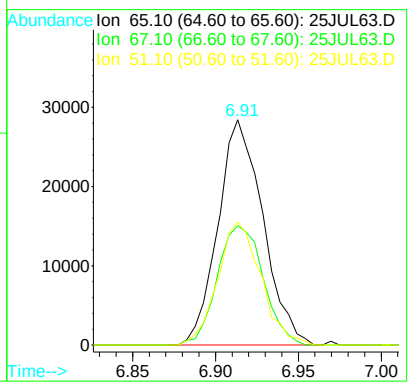


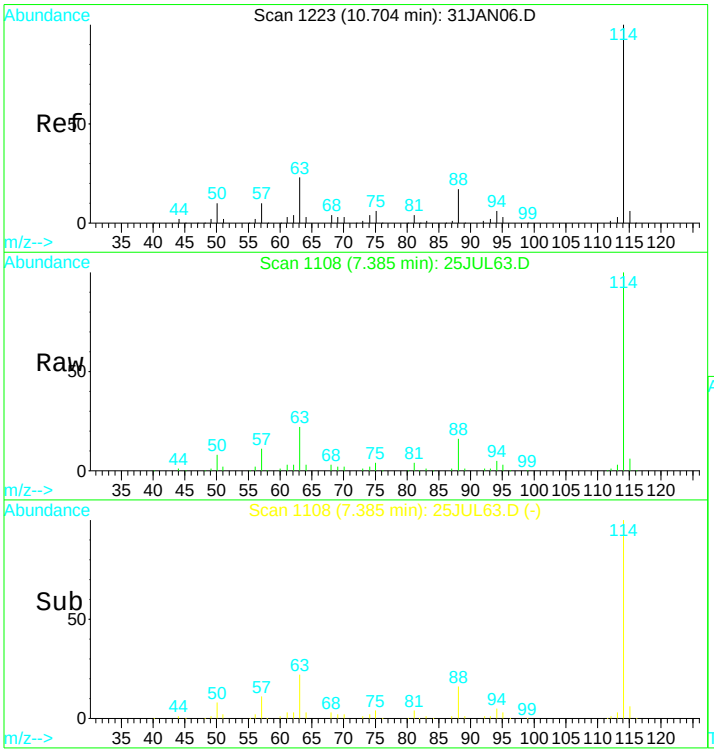


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.91 min Scan# 1016
Delta R.T. -0.00 min
Lab File: 25JUL63.D
Acq: 26 Jul 2017 5:26 am

Tgt Ion: 65 Resp: 53554

Ion	Ratio	Lower	Upper
65	100		
67	54.1	36.2	67.2
51	52.7	42.0	78.0

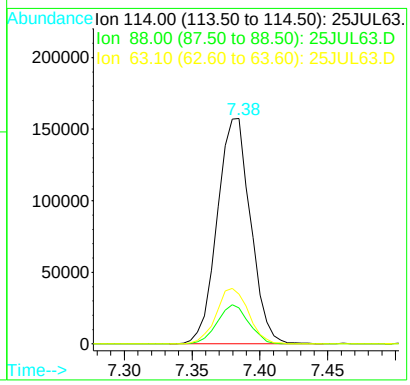


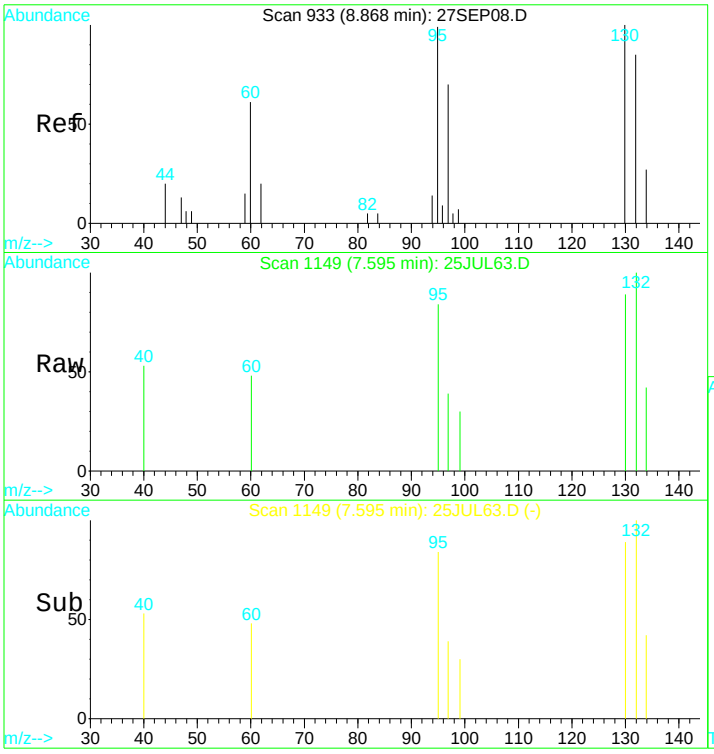


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 25JUL63.D
Acq: 26 Jul 2017 5:26 am

Tgt Ion:114 Resp: 268816

Ion	Ratio	Lower	Upper
114	100		
88	16.4	11.7	21.7
63	23.9	16.7	30.9

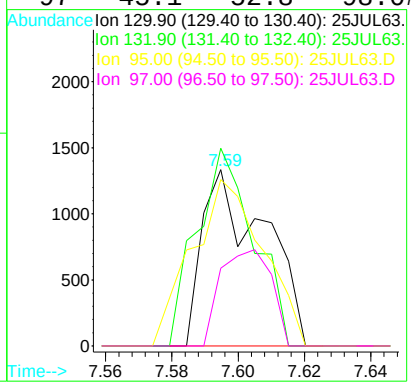


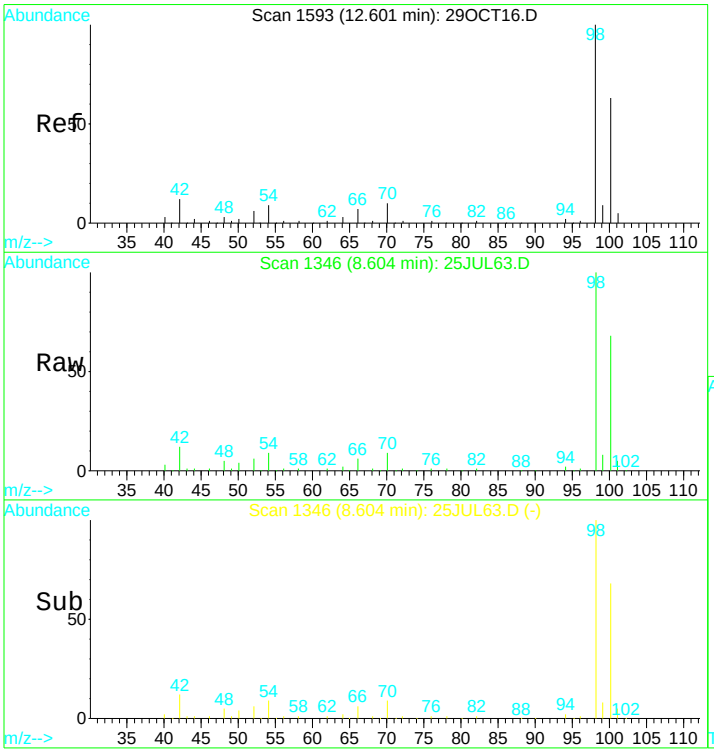


#25
Trichloroethene
Concen: 0.19 ug/L
RT: 7.59 min Scan# 1149
Delta R.T. -0.00 min
Lab File: 25JUL63.D
Acq: 26 Jul 2017 5:26 am

Tgt Ion:130 Resp: 1731

Ion	Ratio	Lower	Upper
130	100		
132	102.8	66.1	122.7
95	107.9	86.1	159.9
97	45.1	52.8	98.0#

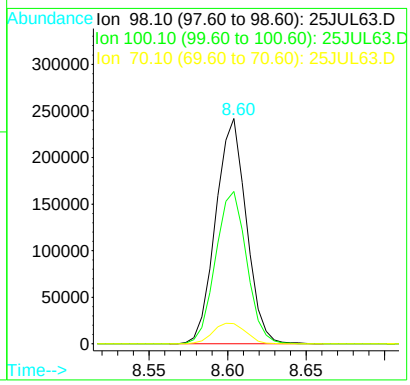


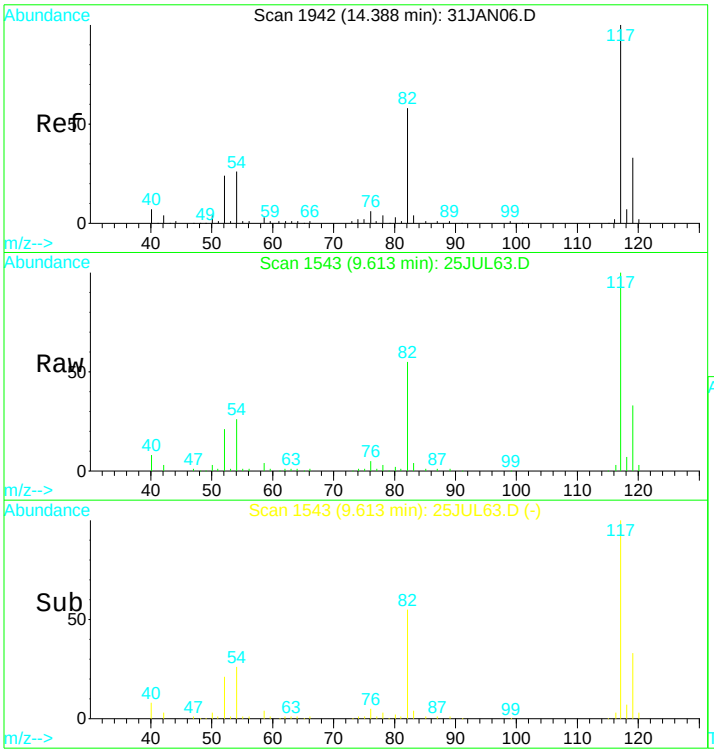


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 25JUL63.D
Acq: 26 Jul 2017 5:26 am

Tgt Ion: 98 Resp: 327604

Ion	Ratio	Lower	Upper
98	100		
100	68.6	49.7	92.3
70	9.9	7.3	13.7

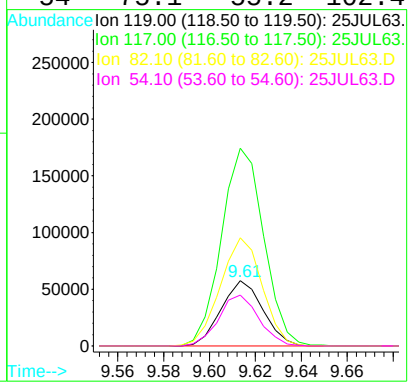


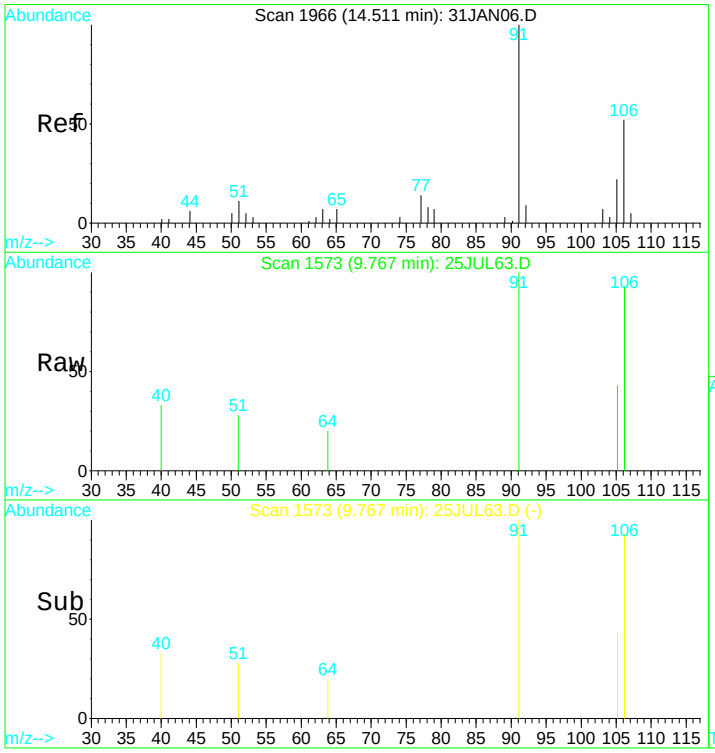


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.61 min Scan# 1543
Delta R.T. -0.00 min
Lab File: 25JUL63.D
Acq: 26 Jul 2017 5:26 am

Tgt Ion:119 Resp: 72996

Ion	Ratio	Lower	Upper
119	100		
117	306.7	214.5	398.4
82	166.1	117.7	218.7
54	75.1	55.2	102.4

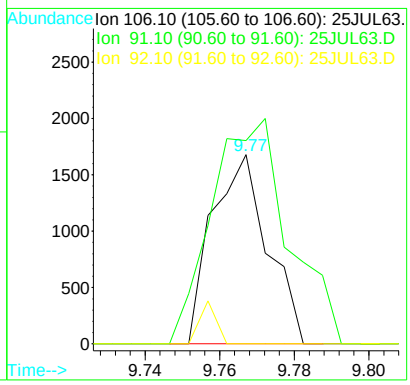


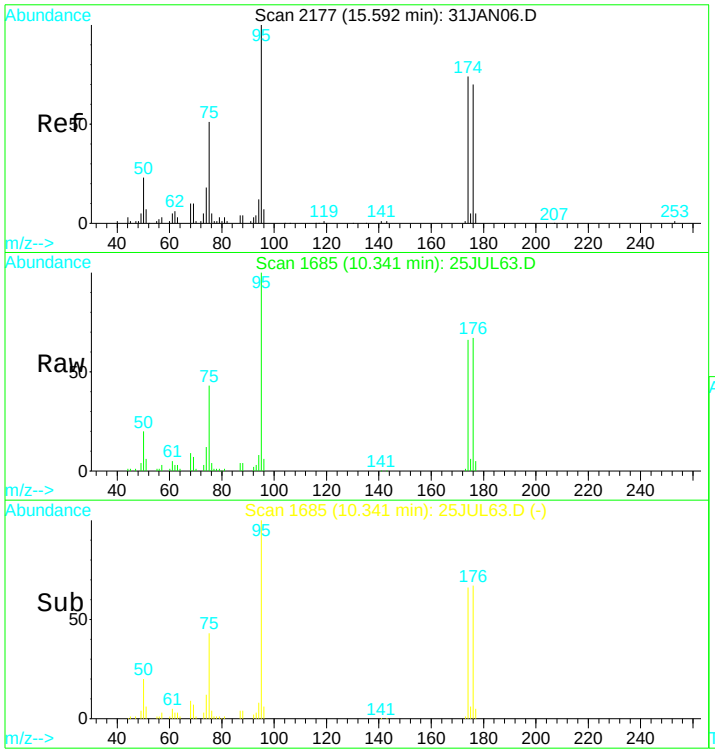


#43
P+m-Xylene
Concen: 0.10 ug/L
RT: 9.77 min Scan# 1573
Delta R.T. -0.00 min
Lab File: 25JUL63.D
Acq: 26 Jul 2017 5:26 am

Tgt Ion:106 Resp: 1735

Ion	Ratio	Lower	Upper
106	100		
91	165.0	135.0	250.6
92	6.7	10.3	19.1#

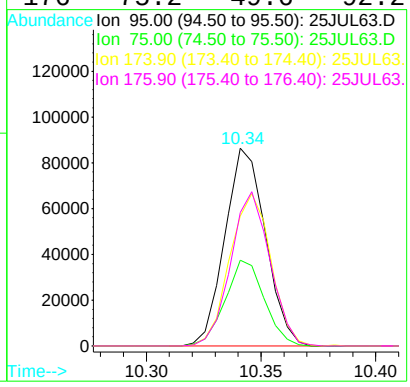


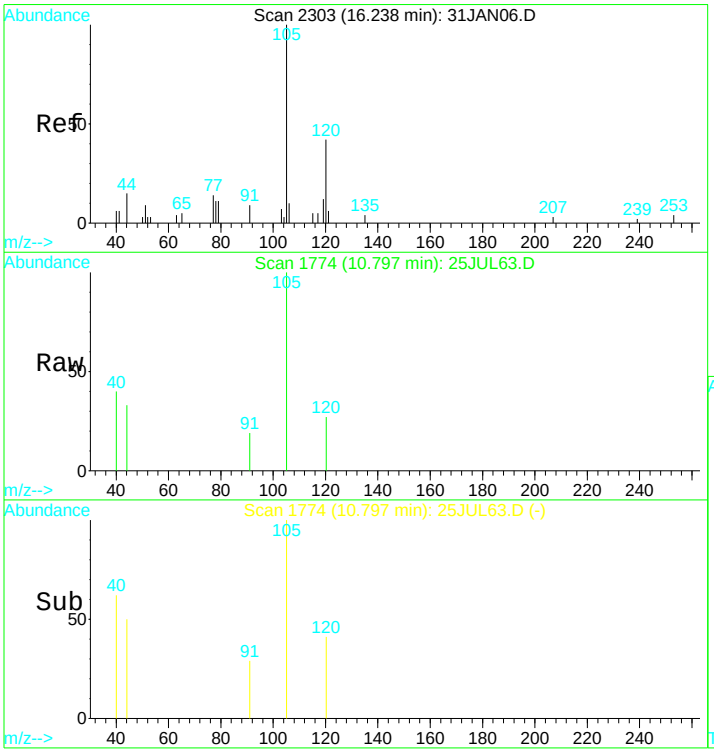


#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1685
Delta R.T. -0.00 min
Lab File: 25JUL63.D
Acq: 26 Jul 2017 5:26 am

Tgt Ion: 95 Resp: 106497

Ion	Ratio	Lower	Upper
95	100		
75	41.8	29.5	54.7
174	78.0	52.3	97.1
176	75.2	49.6	92.2

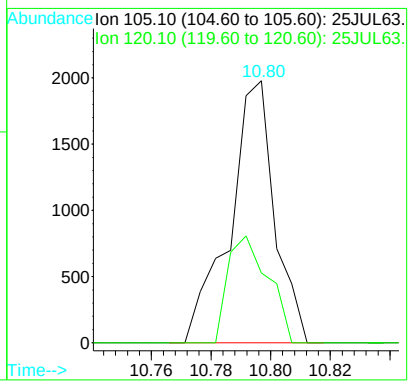




#57
1,2,4-trimethylbenzene
Concen: 0.06 ug/L
RT: 10.80 min Scan# 1774
Delta R.T. 0.00 min
Lab File: 25JUL63.D
Acq: 26 Jul 2017 5:26 am

Tgt Ion:105 Resp: 2066

Ion	Ratio	Lower	Upper
105	100		
120	36.7	31.8	59.0



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL63.D Vial: 63
Acq On : 26 Jul 2017 5:26 am Operator: MGC
Sample : 1720121-01 Inst : MS-V5
Misc : 1 Unspiked;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:09 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	178738	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	268816	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	72996	10.00	ug/L	0.00

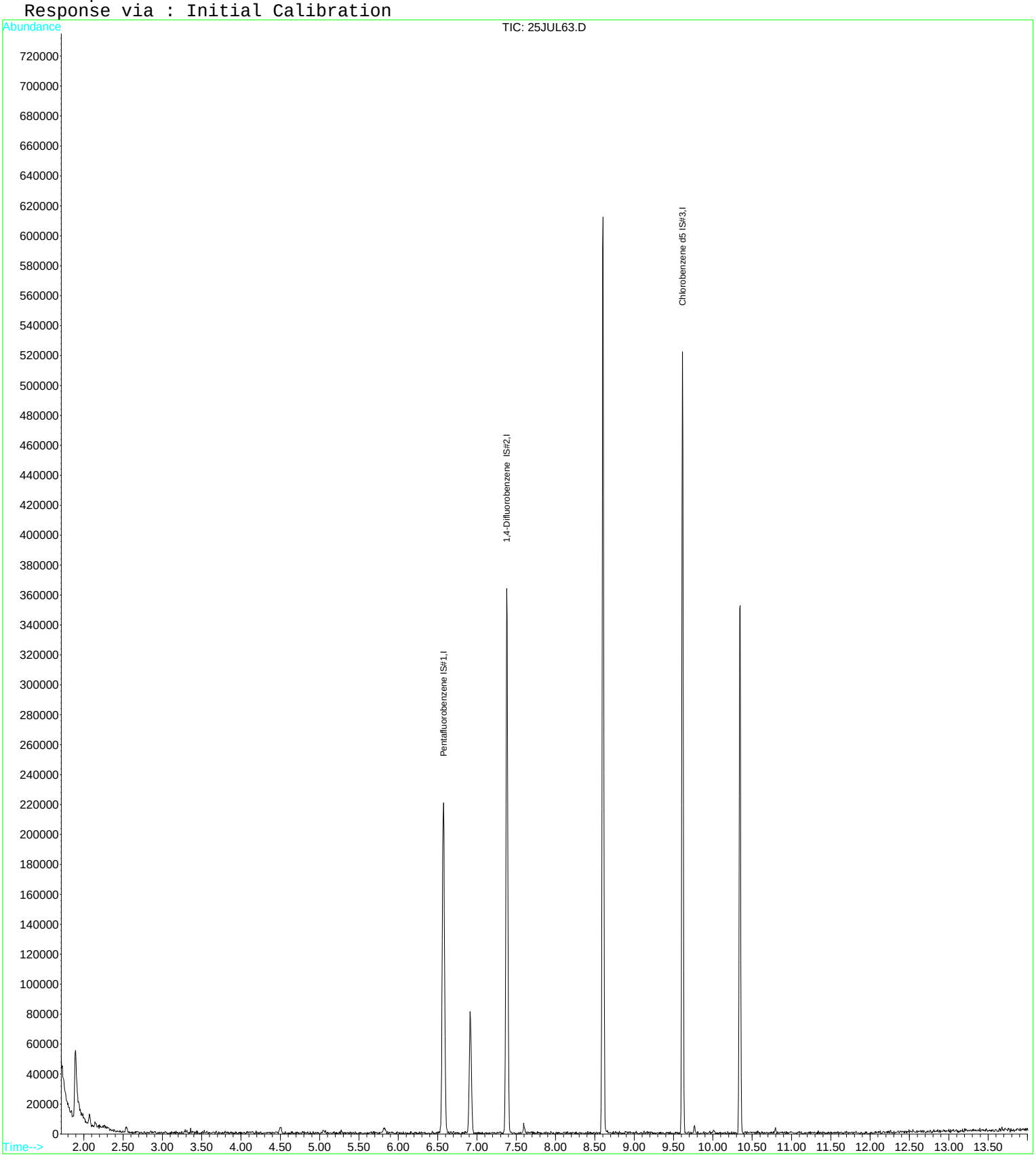
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL63.D Vial: 63
Acq On : 26 Jul 2017 5:26 am Operator: MGC
Sample : 1720121-01 Inst : MS-V5
Misc : 1 Unspiked;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:09 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL48.D Vial: 48
Acq On : 25 Jul 2017 11:42 pm Operator: MGC
Sample : 1720121-02 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:48 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	172504	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	263519	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	68952	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	51130	10.15	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 101.50%			
31) Toluene d8 SMC#2	8.60	98	325299	10.00	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.00%			
49) Bromofluorobenzene SMC#3	10.35	95	104572	10.16	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 101.60%			

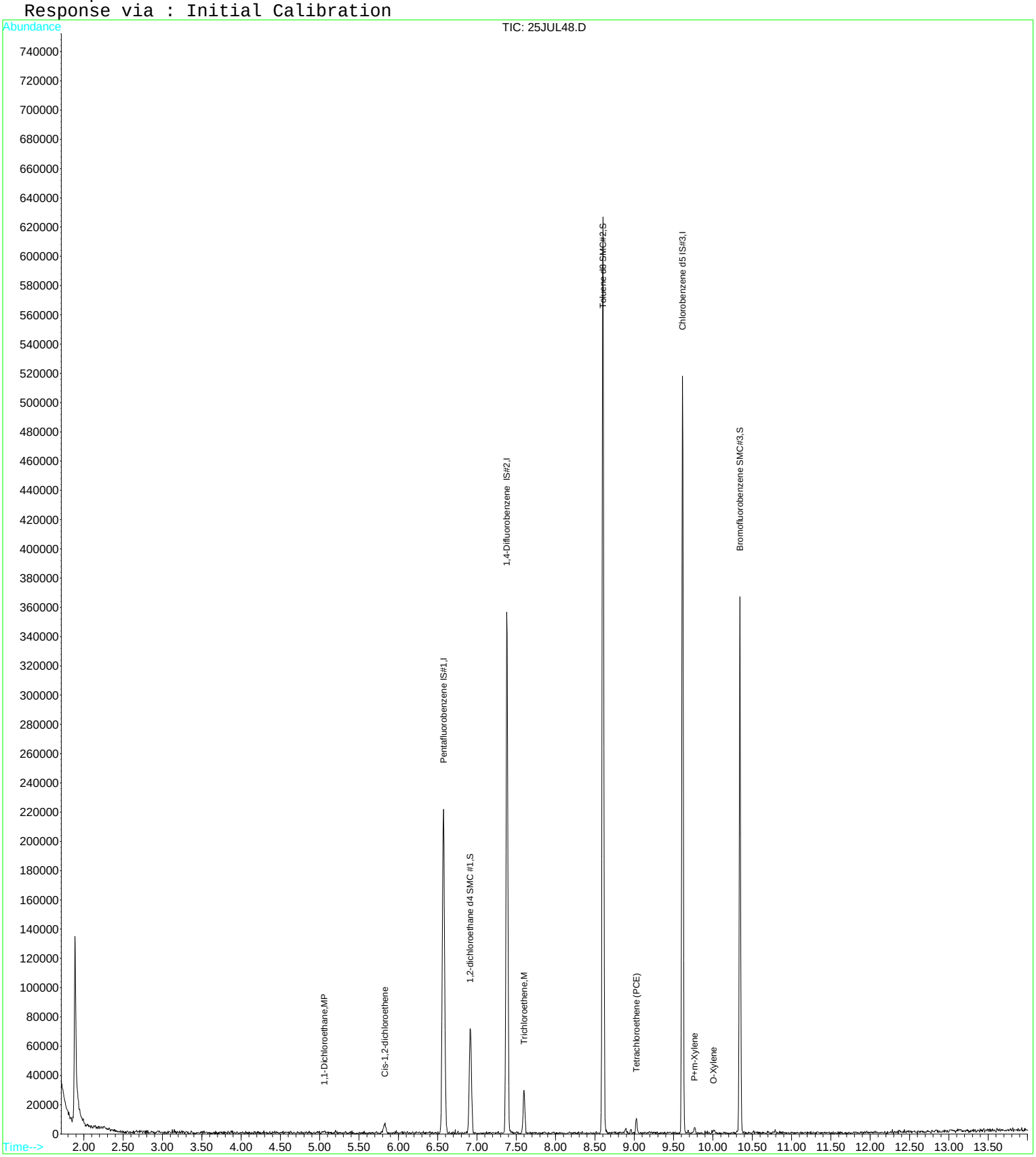
Target Compounds						Qvalue
13) 1,1-Dichloroethane	5.06	63	2011	0.11	ug/L #	57
15) Cis-1,2-dichloroethene	5.83	96	3897	0.43	ug/L #	11
25) Trichloroethene	7.59	130	8933	0.99	ug/L	89
35) Tetrachloroethene (PCE)	9.03	166	2993	0.35	ug/L #	80
43) P+m-Xylene	9.77	106	1107	0.07	ug/L #	35
44) O-Xylene	10.01	106	814	0.05	ug/L #	57

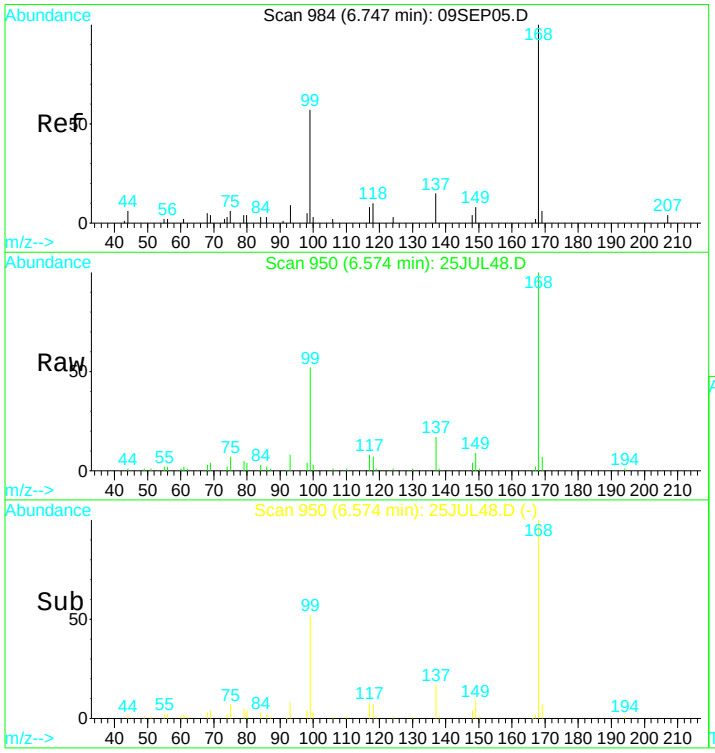
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL48.D Vial: 48
Acq On : 25 Jul 2017 11:42 pm Operator: MGC
Sample : 1720121-02 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:48 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

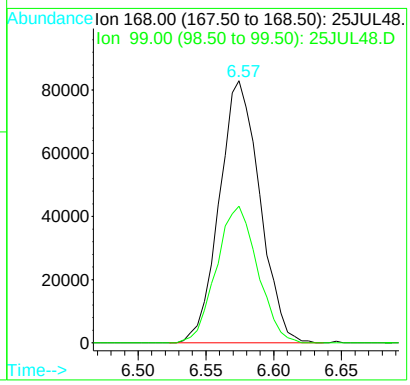


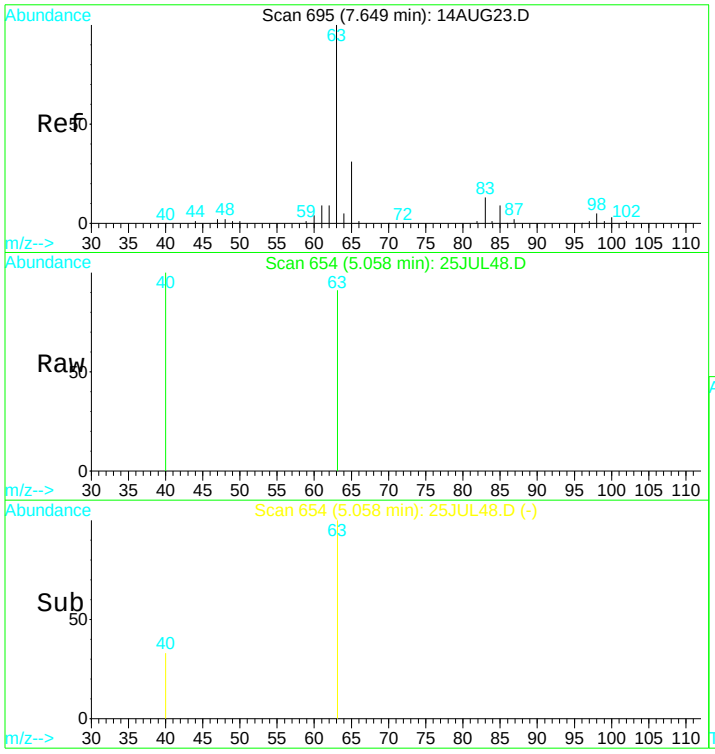


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 25JUL48.D
Acq: 25 Jul 2017 11:42 pm

Tgt Ion:168 Resp: 172504

Ion	Ratio	Lower	Upper
168	100		
99	52.9	38.7	71.9

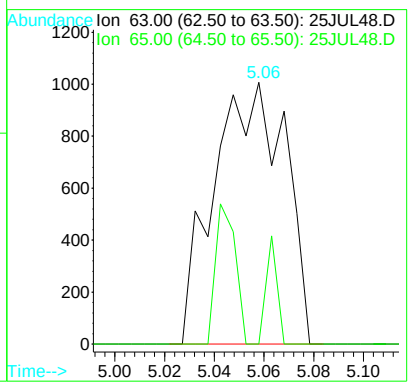


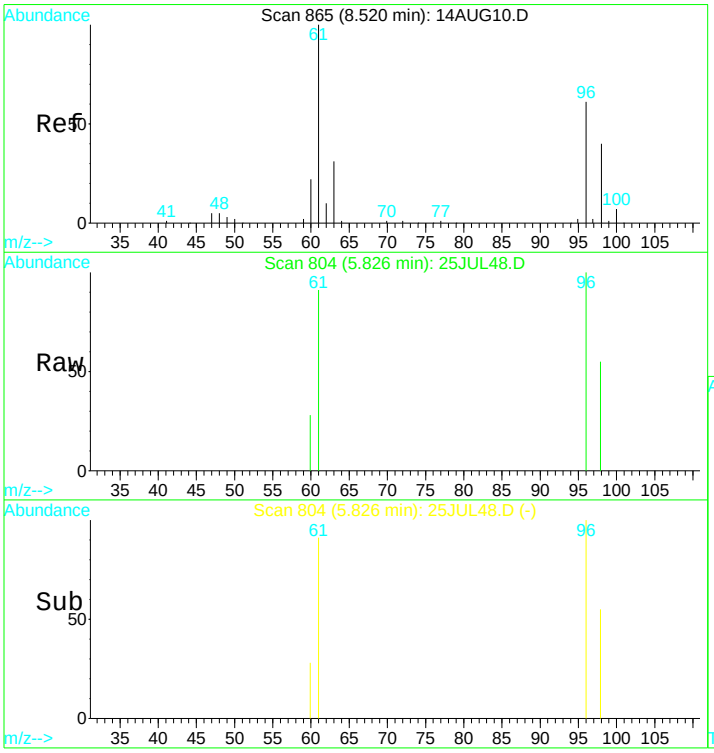


#13
1,1-Dichloroethane
Concen: 0.11 ug/L
RT: 5.06 min Scan# 654
Delta R.T. 0.01 min
Lab File: 25JUL48.D
Acq: 25 Jul 2017 11:42 pm

Tgt Ion: 63 Resp: 2011

Ion	Ratio	Lower	Upper
63	100		
65	6.4	20.8	38.6#

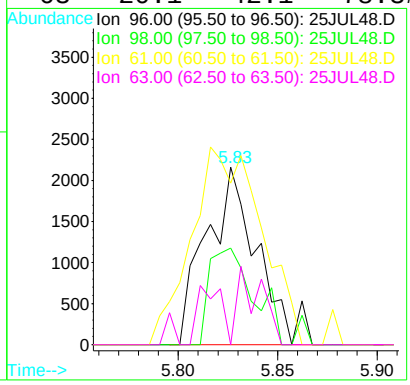


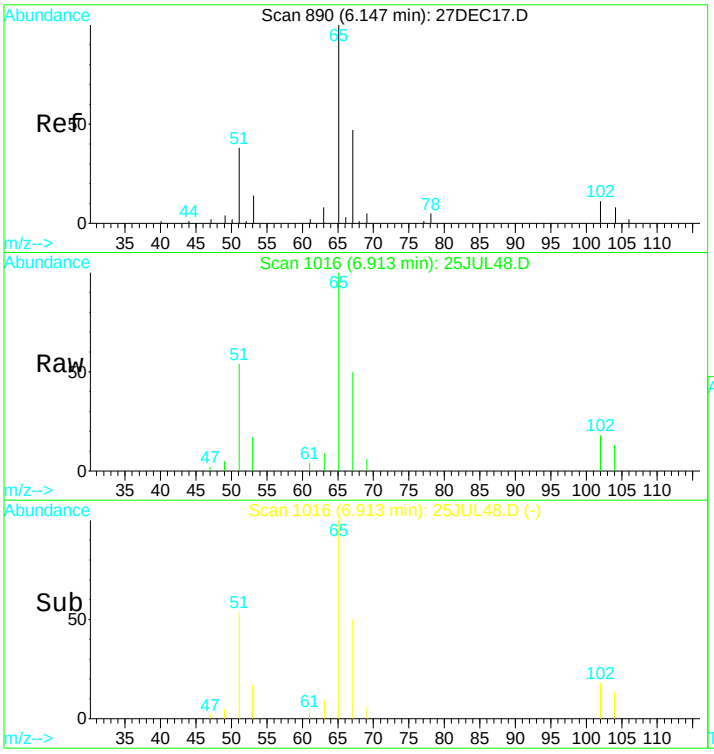


#15
Cis-1,2-dichloroethene
Concen: 0.43 ug/L
RT: 5.83 min Scan# 804
Delta R.T. 0.00 min
Lab File: 25JUL48.D
Acq: 25 Jul 2017 11:42 pm

Tgt Ion: 96 Resp: 3897

Ion	Ratio	Lower	Upper
96	100		
98	46.7	51.9	96.3#
61	0.0	122.8	228.0#
63	20.1	42.1	78.3#

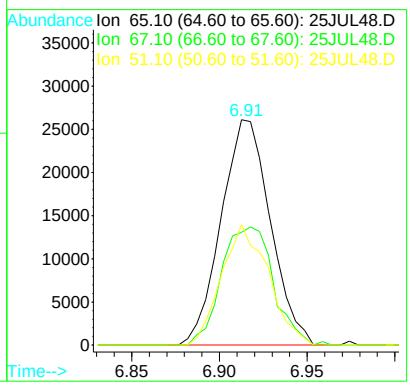


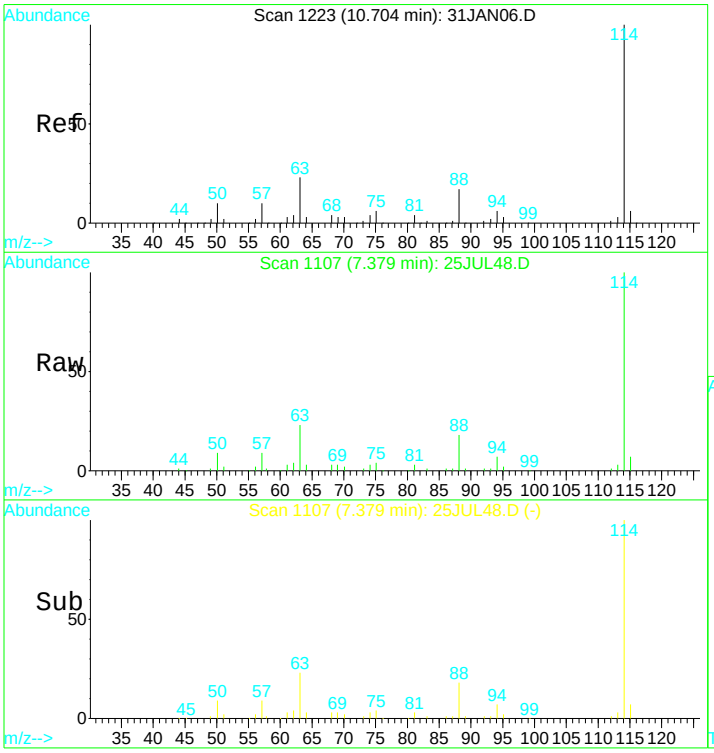


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.91 min Scan# 1016
Delta R.T. -0.00 min
Lab File: 25JUL48.D
Acq: 25 Jul 2017 11:42 pm

Tgt Ion: 65 Resp: 51130

Ion	Ratio	Lower	Upper
65	100		
67	55.2	36.2	67.2
51	50.9	42.0	78.0

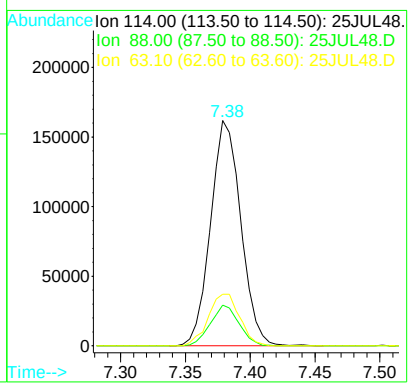


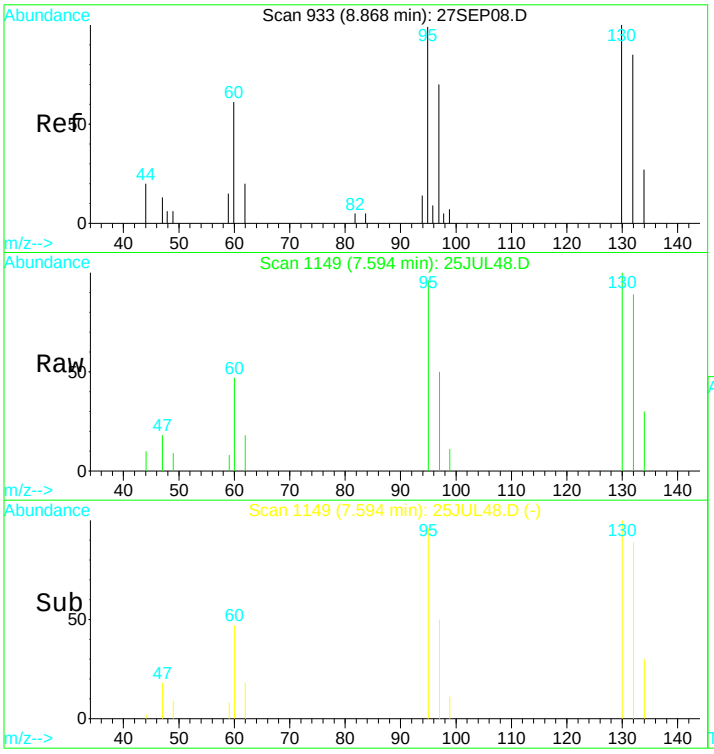


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1107
Delta R.T. -0.00 min
Lab File: 25JUL48.D
Acq: 25 Jul 2017 11:42 pm

Tgt Ion:114 Resp: 263519

Ion	Ratio	Lower	Upper
114	100		
88	17.1	11.7	21.7
63	23.7	16.7	30.9

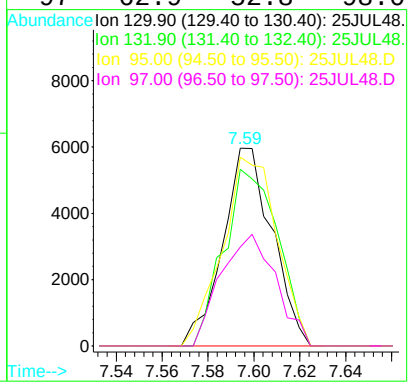


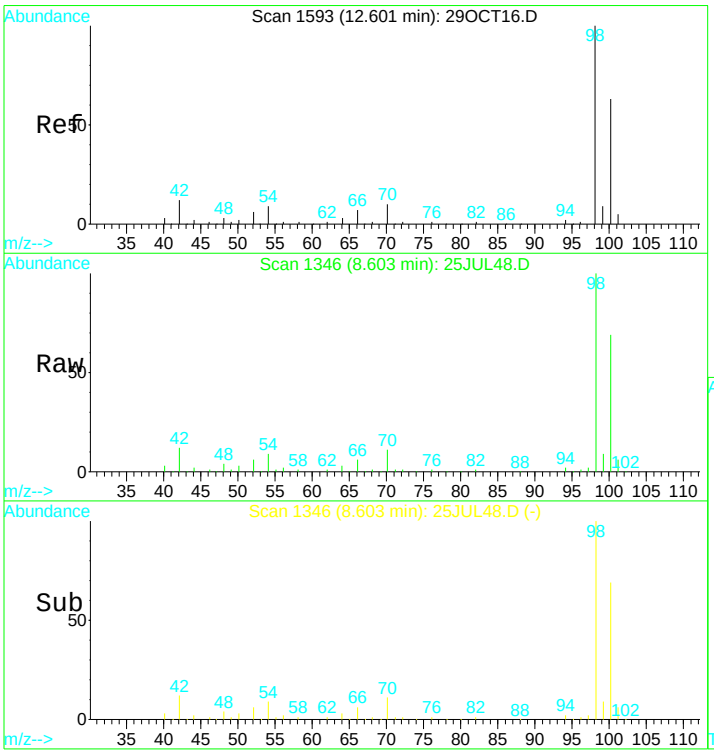


#25
Trichloroethene
Concen: 0.99 ug/L
RT: 7.59 min Scan# 1149
Delta R.T. -0.00 min
Lab File: 25JUL48.D
Acq: 25 Jul 2017 11:42 pm

Tgt Ion:130 Resp: 8933

Ion	Ratio	Lower	Upper
130	100		
132	97.9	66.1	122.7
95	105.6	86.1	159.9
97	62.9	52.8	98.0

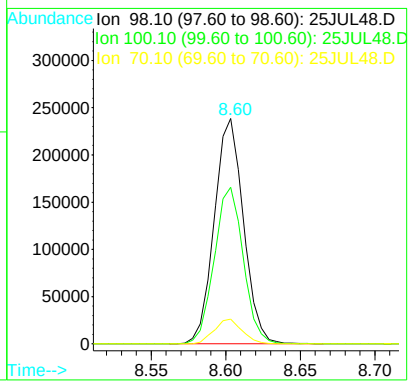


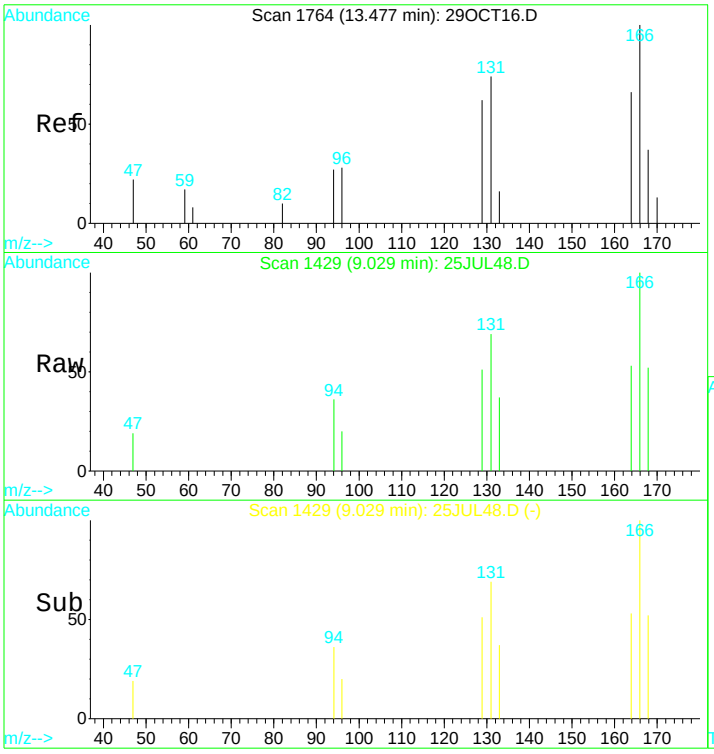


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 25JUL48.D
Acq: 25 Jul 2017 11:42 pm

Tgt Ion: 98 Resp: 325299

Ion	Ratio	Lower	Upper
98	100		
100	68.9	49.7	92.3
70	10.5	7.3	13.7

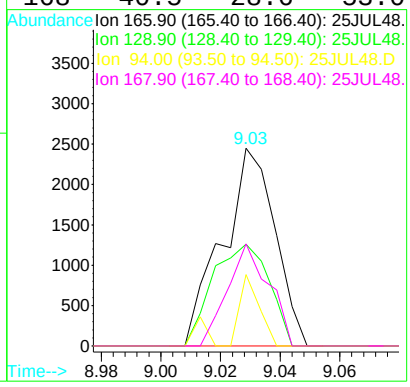


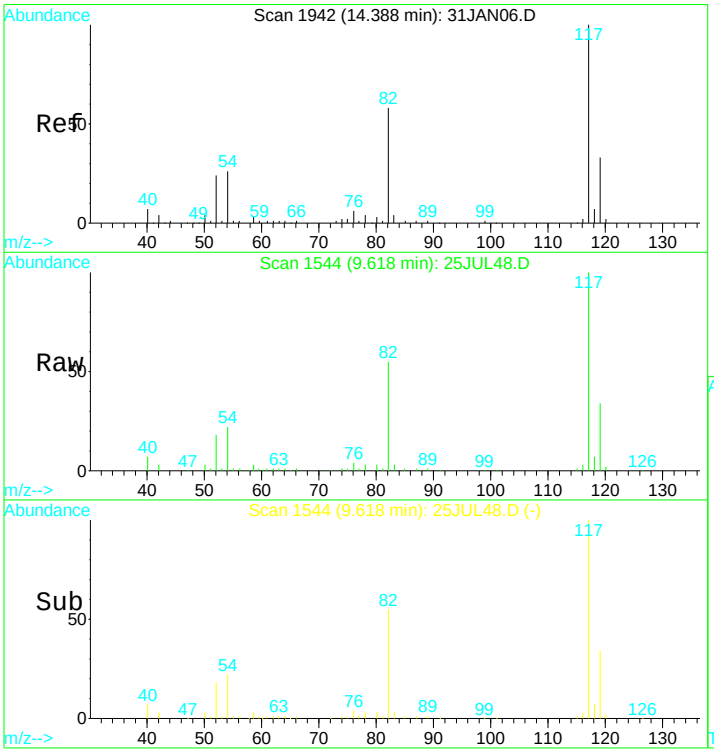


#35
Tetrachloroethene (PCE)
Concen: 0.35 ug/L
RT: 9.03 min Scan# 1429
Delta R.T. 0.00 min
Lab File: 25JUL48.D
Acq: 25 Jul 2017 11:42 pm

Tgt Ion:166 Resp: 2993

Ion	Ratio	Lower	Upper
166	100		
129	55.2	54.3	100.8
94	17.2	24.1	44.7#
168	40.5	28.6	53.0

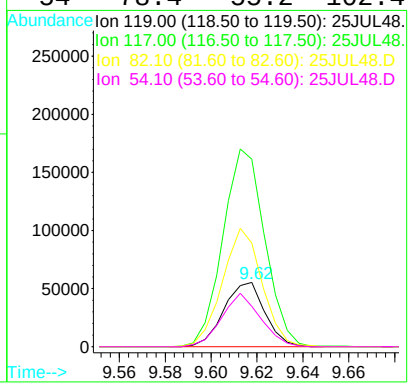


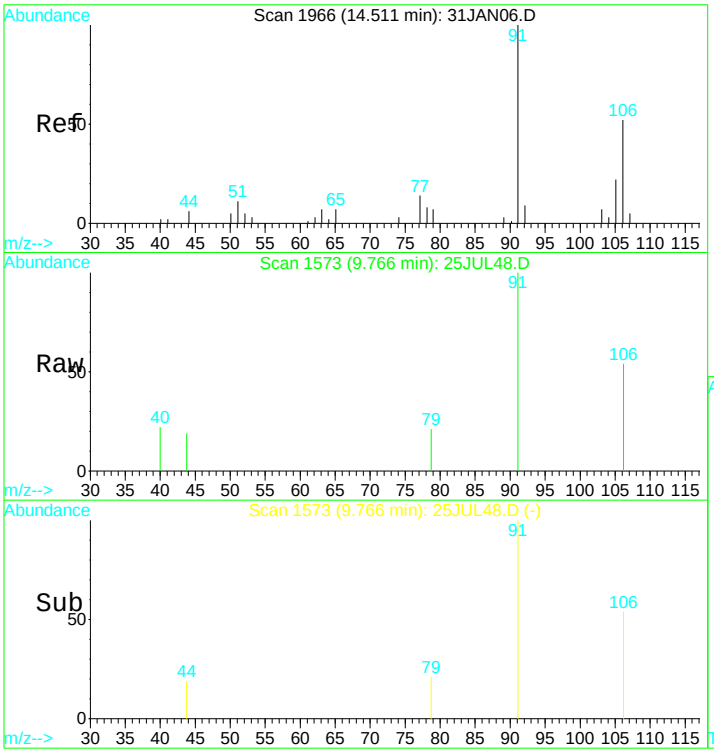


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 25JUL48.D
Acq: 25 Jul 2017 11:42 pm

Tgt Ion:119 Resp: 68952

Ion	Ratio	Lower	Upper
119	100		
117	314.4	214.5	398.4
82	178.2	117.7	218.7
54	78.4	55.2	102.4

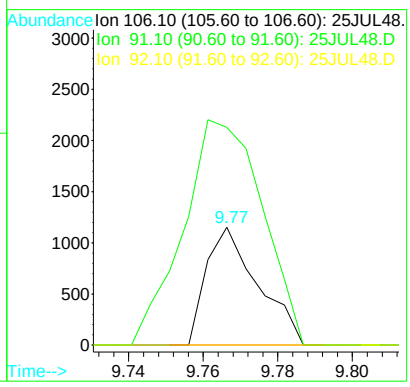


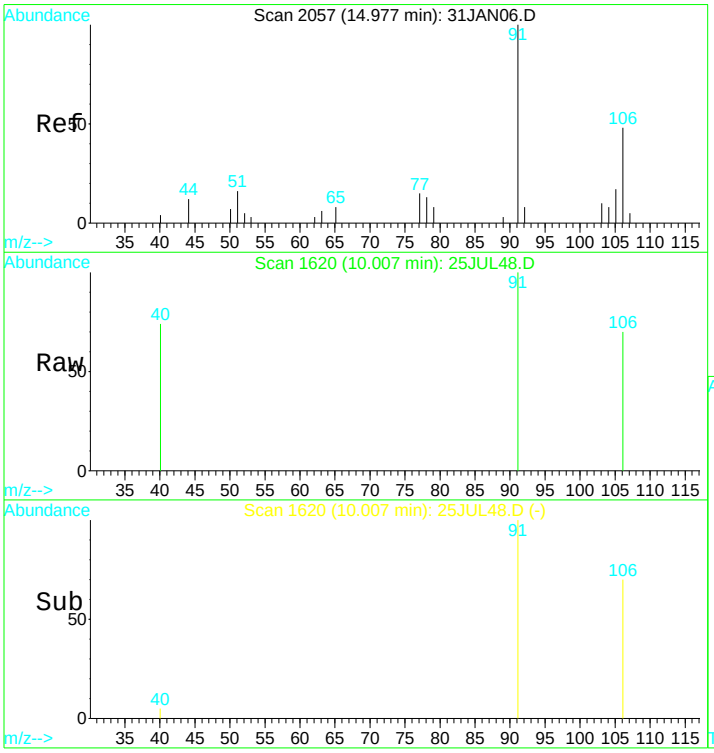


#43
P+m-Xylene
Concen: 0.07 ug/L
RT: 9.77 min Scan# 1573
Delta R.T. -0.00 min
Lab File: 25JUL48.D
Acq: 25 Jul 2017 11:42 pm

Tgt Ion:106 Resp: 1107

Ion	Ratio	Lower	Upper
106	100		
91	292.7	135.0	250.6#
92	0.0	10.3	19.1#

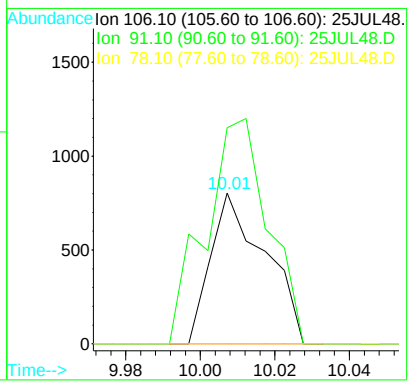


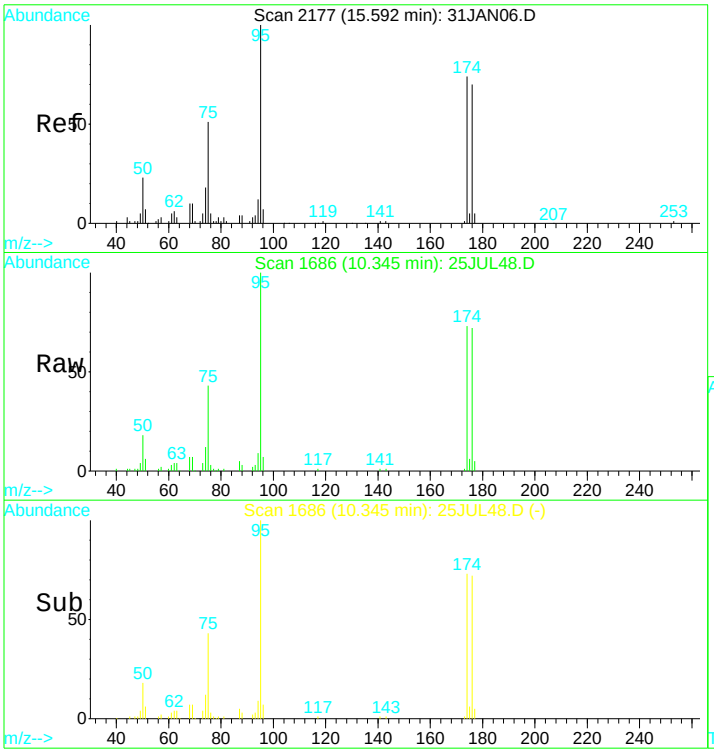


#44
O-Xylene
Concen: 0.05 ug/L
RT: 10.01 min Scan# 1620
Delta R.T. -0.00 min
Lab File: 25JUL48.D
Acq: 25 Jul 2017 11:42 pm

Tgt Ion:106 Resp: 814

Ion	Ratio	Lower	Upper
106	100		
91	172.2	154.3	286.5
78	0.0	47.1	87.5#

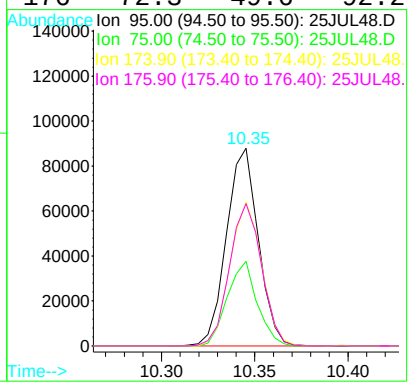




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.35 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 25JUL48.D
Acq: 25 Jul 2017 11:42 pm

Tgt Ion: 95 Resp: 104572

Ion	Ratio	Lower	Upper
95	100		
75	40.1	29.5	54.7
174	72.5	52.3	97.1
176	72.3	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL48.D Vial: 48
Acq On : 25 Jul 2017 11:42 pm Operator: MGC
Sample : 1720121-02 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:50 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	172504	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	263519	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	68952	10.00	ug/L	0.00

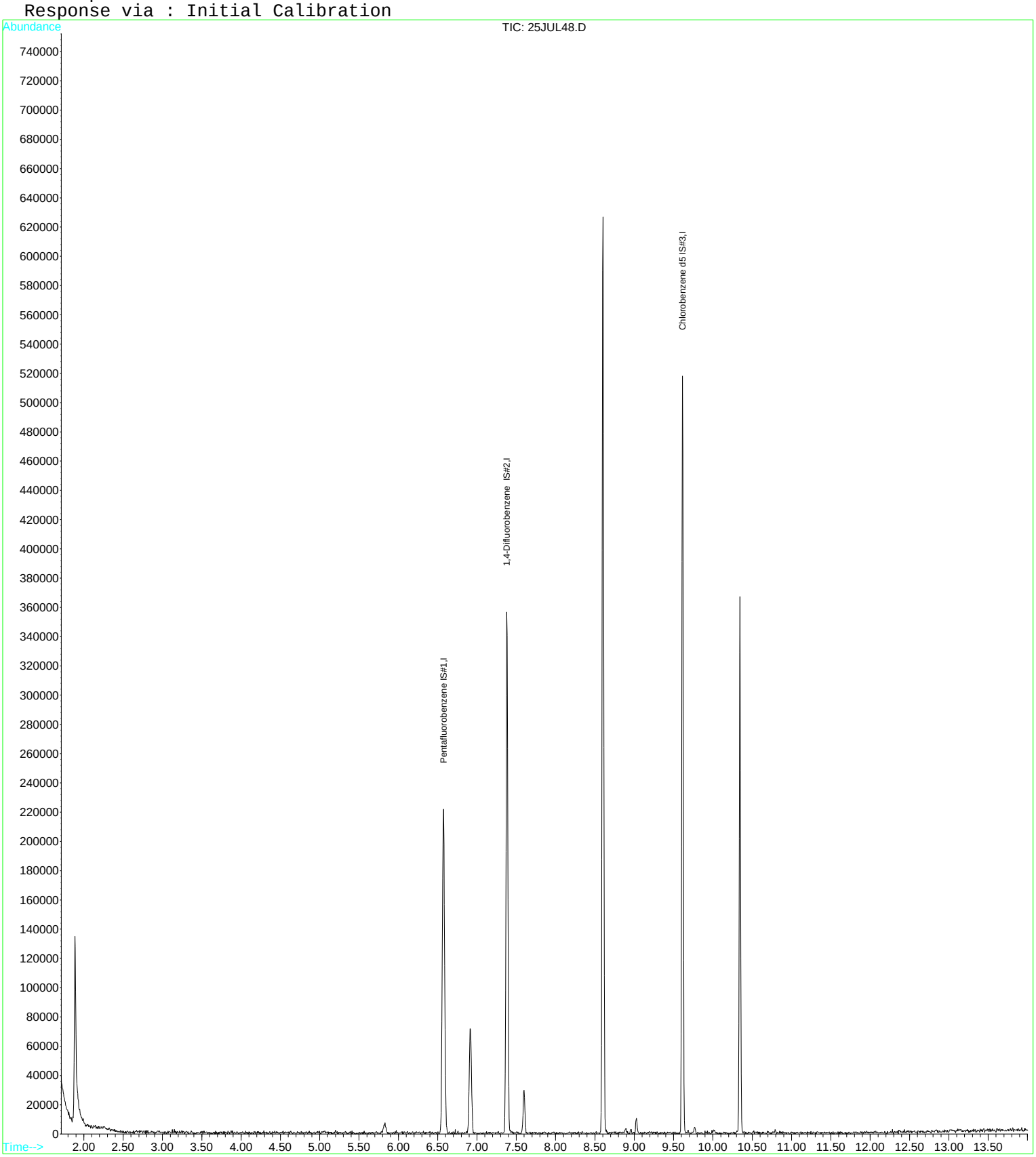
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL48.D Vial: 48
Acq On : 25 Jul 2017 11:42 pm Operator: MGC
Sample : 1720121-02 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:50 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL49.D Vial: 49
Acq On : 26 Jul 2017 12:05 am Operator: MGC
Sample : 1720121-03 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:50 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	179151	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	266859	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	70371	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	51857	9.91	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 99.10%			
31) Toluene d8 SMC#2	8.60	98	323843	9.83	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.30%			
49) Bromofluorobenzene SMC#3	10.35	95	101747	9.68	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.80%			

Target Compounds

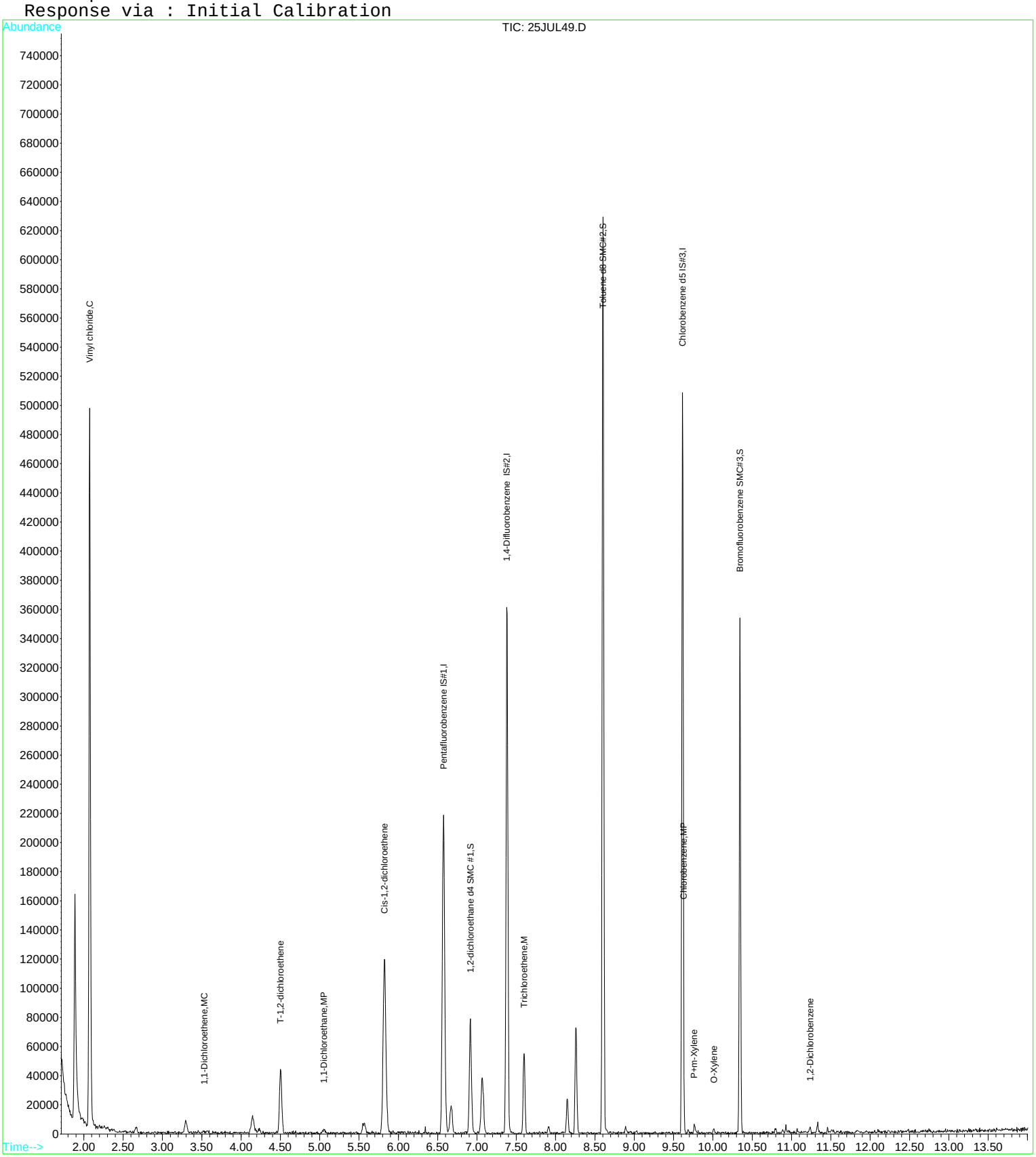
						Qvalue
4) Vinyl chloride	2.08	62	412583	30.73	ug/L #	68
9) 1,1-Dichloroethene	3.53	61	1391	0.10	ug/L #	42
12) T-1,2-dichloroethene	4.50	96	17118	1.91	ug/L	91
13) 1,1-Dichloroethane	5.05	63	3649	0.19	ug/L	88
15) Cis-1,2-dichloroethene	5.83	96	66132	7.07	ug/L	85
25) Trichloroethene	7.60	130	17095	1.87	ug/L	89
40) Chlorobenzene	9.63	112	2130	0.09	ug/L #	37
43) P+m-Xylene	9.76	106	1930	0.12	ug/L #	89
44) O-Xylene	10.01	106	738	0.05	ug/L #	53
63) 1,2-Dichlorobenzene	11.24	146	1572	0.10	ug/L #	79

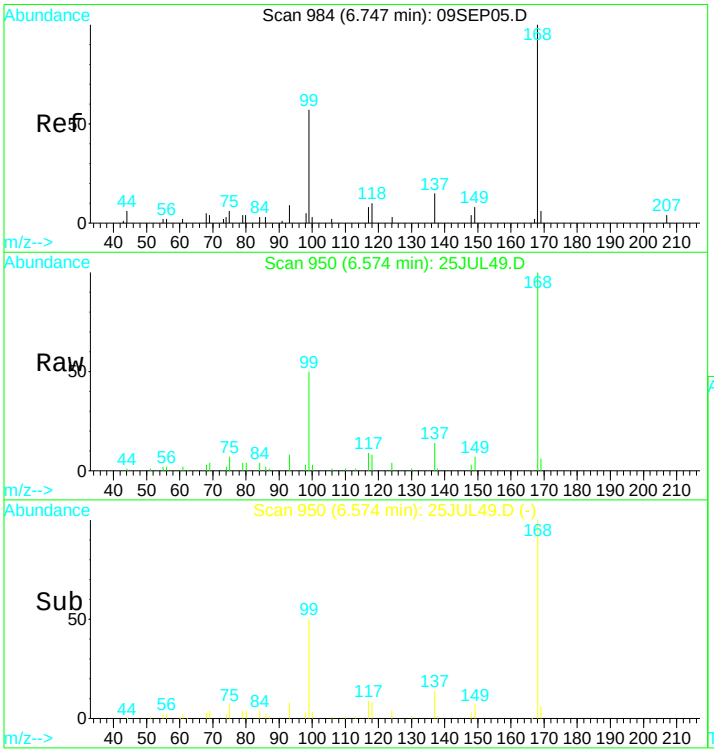
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL49.D Vial: 49
Acq On : 26 Jul 2017 12:05 am Operator: MGC
Sample : 1720121-03 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:50 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

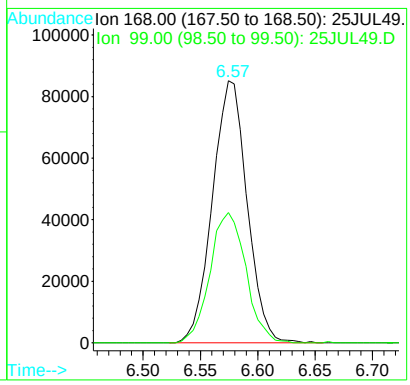


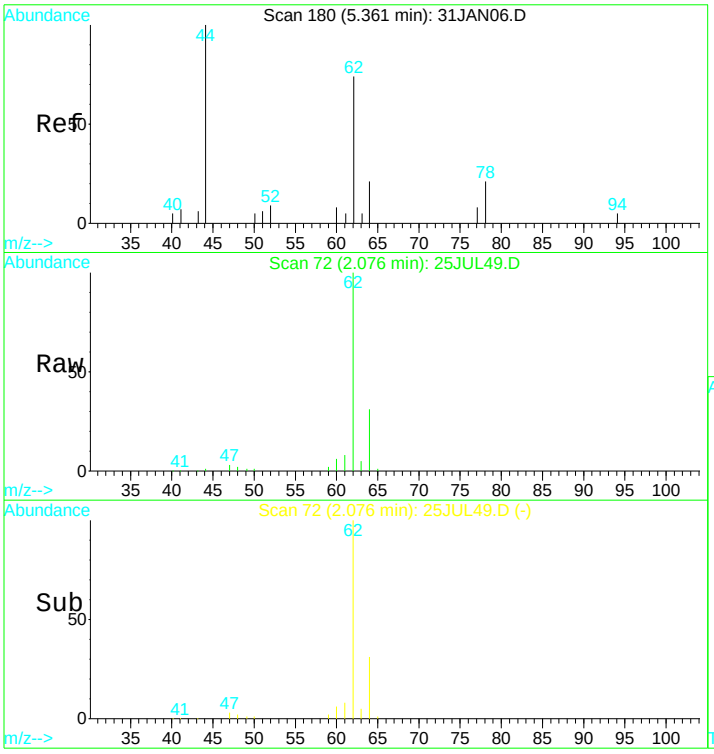


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 25JUL49.D
Acq: 26 Jul 2017 12:05 am

Tgt Ion:168 Resp: 179151

Ion	Ratio	Lower	Upper
168	100		
99	51.3	38.7	71.9

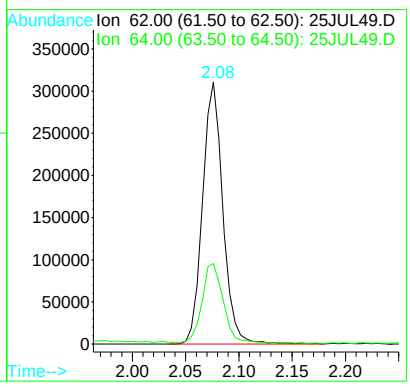


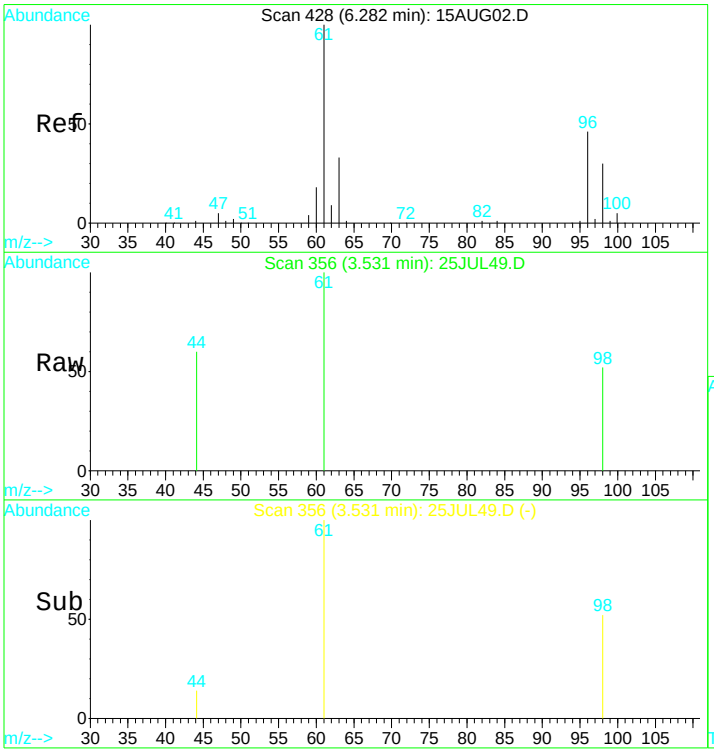


#4
Vinyl chloride
Concen: 30.73 ug/L
RT: 2.08 min Scan# 72
Delta R.T. 0.00 min
Lab File: 25JUL49.D
Acq: 26 Jul 2017 12:05 am

Tgt Ion: 62 Resp: 412583

Ion	Ratio	Lower	Upper
62	100		
64	32.5	39.3	72.9#

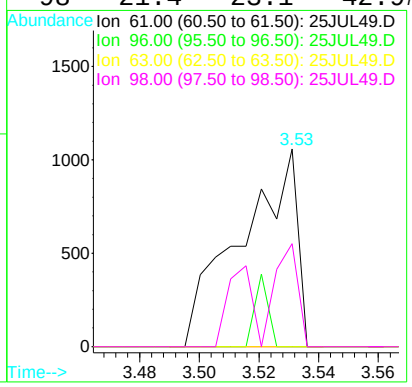


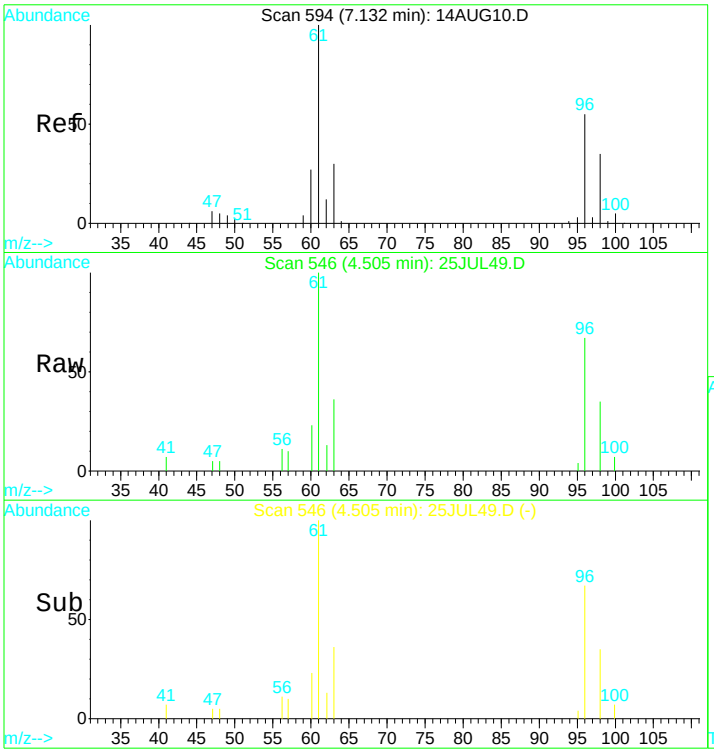


#9
1,1-Dichloroethene
Concen: 0.10 ug/L
RT: 3.53 min Scan# 356
Delta R.T. 0.02 min
Lab File: 25JUL49.D
Acq: 26 Jul 2017 12:05 am

Tgt Ion: 61 Resp: 1391

Ion	Ratio	Lower	Upper
61	100		
96	0.0	41.2	76.4#
63	0.0	23.7	43.9#
98	21.4	23.1	42.9#

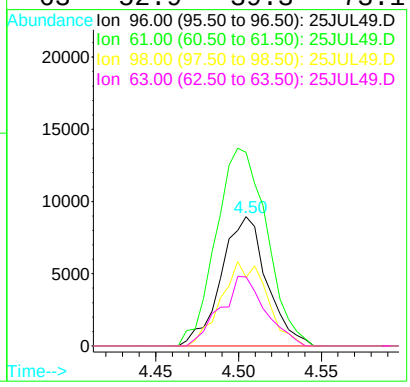


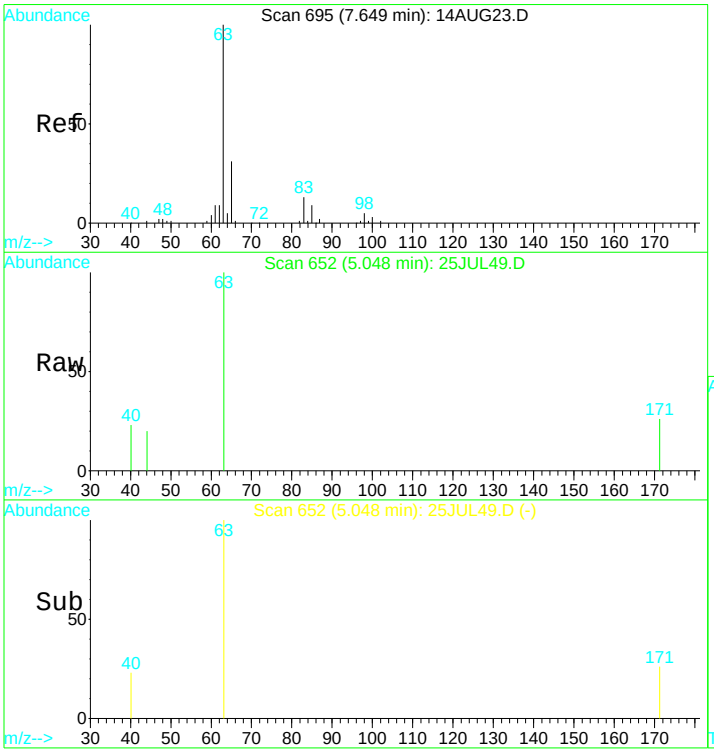


#12
T-1,2-dichloroethene
Concen: 1.91 ug/L
RT: 4.50 min Scan# 546
Delta R.T. 0.00 min
Lab File: 25JUL49.D
Acq: 26 Jul 2017 12:05 am

Tgt Ion: 96 Resp: 17118

Ion	Ratio	Lower	Upper
96	100		
61	169.9	129.4	240.4
98	64.9	41.5	77.1
63	52.9	39.3	73.1

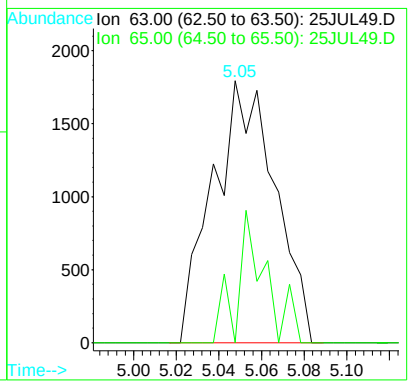


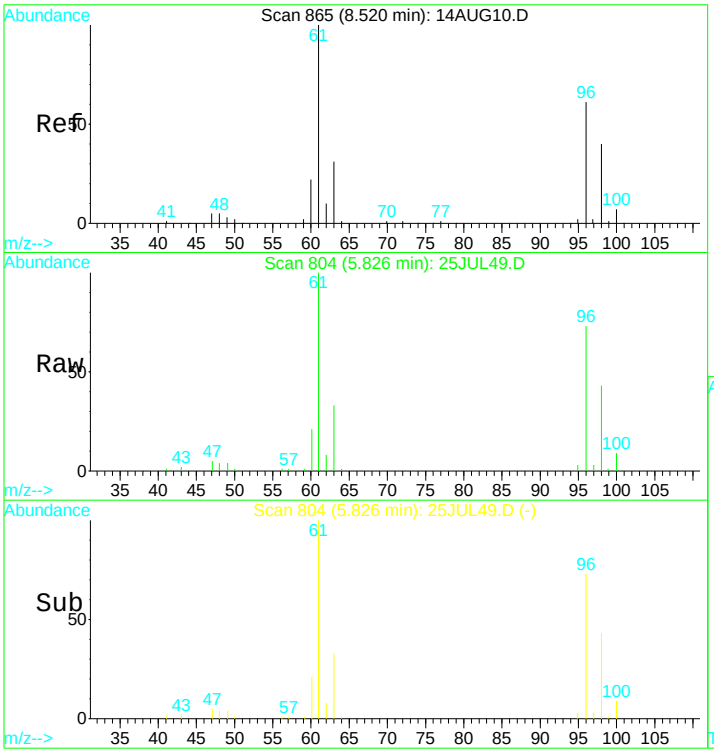


#13
1,1-Dichloroethane
Concen: 0.19 ug/L
RT: 5.05 min Scan# 652
Delta R.T. -0.00 min
Lab File: 25JUL49.D
Acq: 26 Jul 2017 12:05 am

Tgt Ion: 63 Resp: 3649

Ion	Ratio	Lower	Upper
63	100		
65	23.3	20.8	38.6

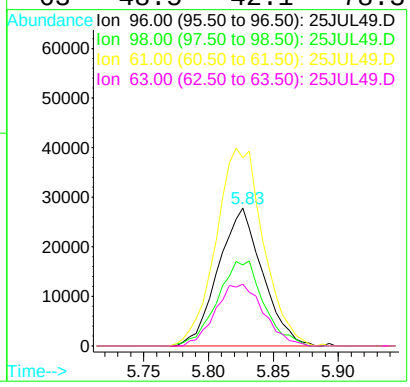


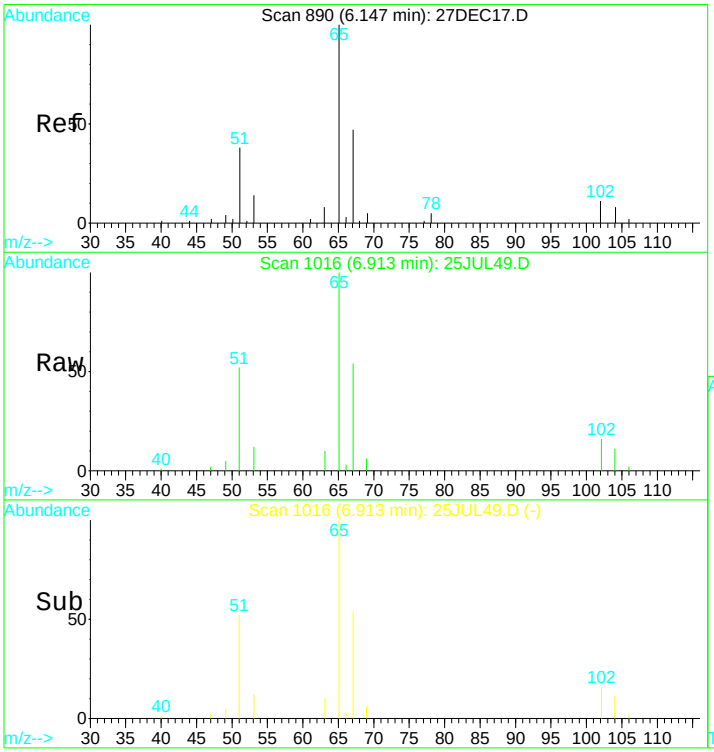


#15
Cis-1,2-dichloroethene
Concen: 7.07 ug/L
RT: 5.83 min Scan# 804
Delta R.T. 0.00 min
Lab File: 25JUL49.D
Acq: 26 Jul 2017 12:05 am

Tgt Ion: 96 Resp: 66132

Ion	Ratio	Lower	Upper
96	100		
98	64.2	51.9	96.3
61	153.5	122.8	228.0
63	48.5	42.1	78.3

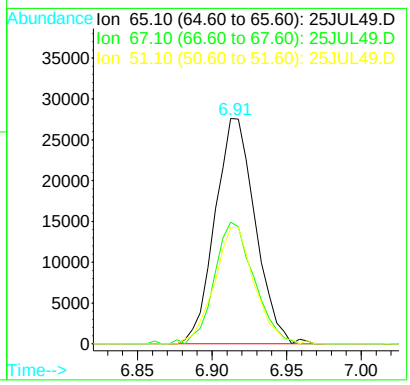


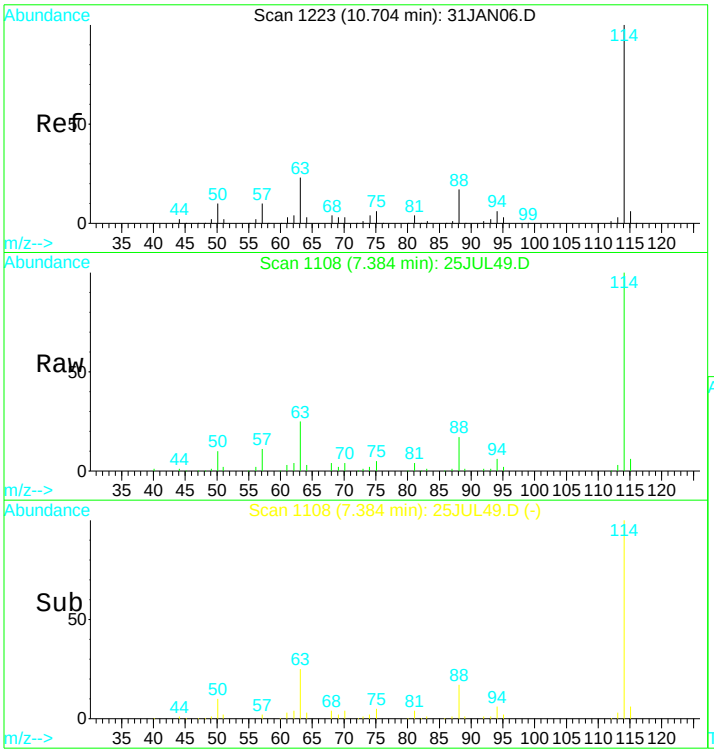


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.91 min Scan# 1016
Delta R.T. -0.00 min
Lab File: 25JUL49.D
Acq: 26 Jul 2017 12:05 am

Tgt Ion: 65 Resp: 51857

Ion	Ratio	Lower	Upper
65	100		
67	53.1	36.2	67.2
51	51.4	42.0	78.0

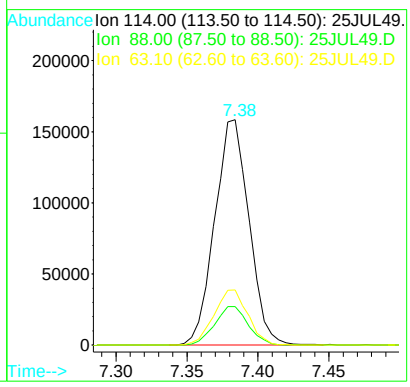


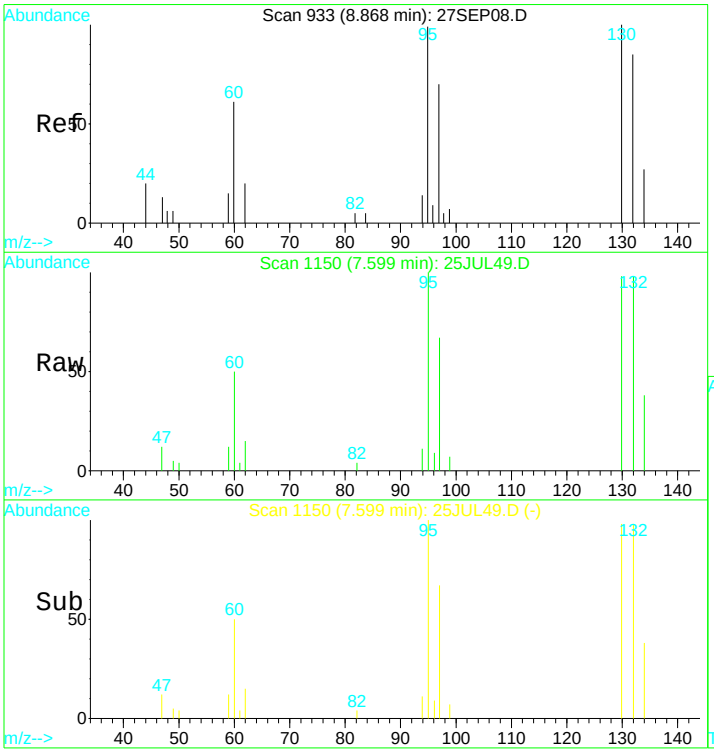


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 25JUL49.D
Acq: 26 Jul 2017 12:05 am

Tgt Ion:114 Resp: 266859

Ion	Ratio	Lower	Upper
114	100		
88	16.8	11.7	21.7
63	24.1	16.7	30.9

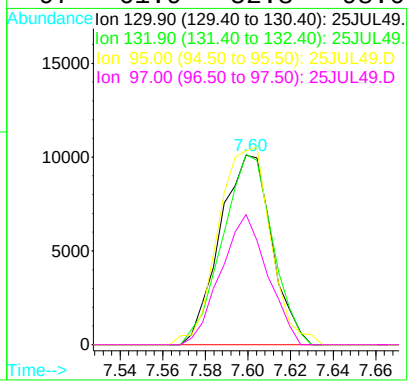


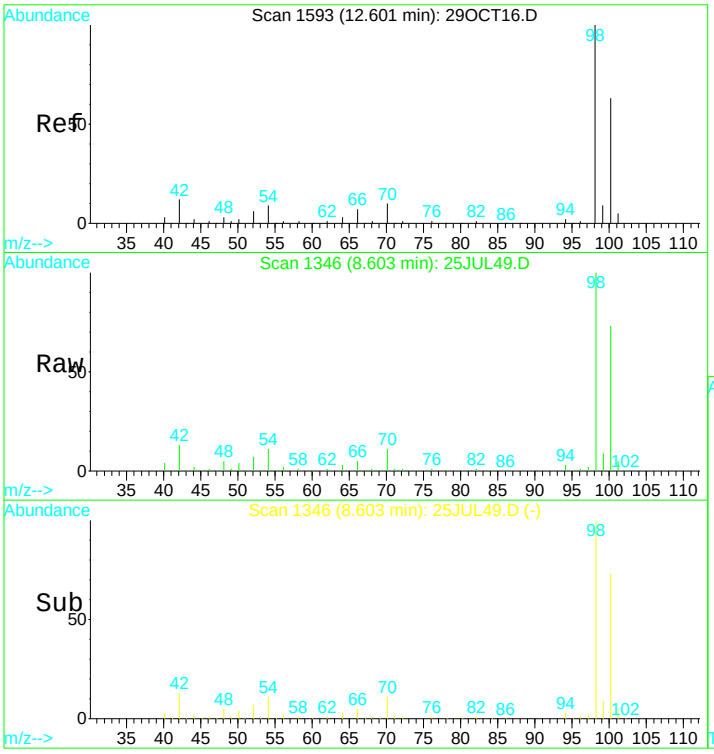


#25
Trichloroethene
Concen: 1.87 ug/L
RT: 7.60 min Scan# 1150
Delta R.T. 0.00 min
Lab File: 25JUL49.D
Acq: 26 Jul 2017 12:05 am

Tgt Ion:130 Resp: 17095

Ion	Ratio	Lower	Upper
130	100		
132	97.0	66.1	122.7
95	105.5	86.1	159.9
97	61.9	52.8	98.0

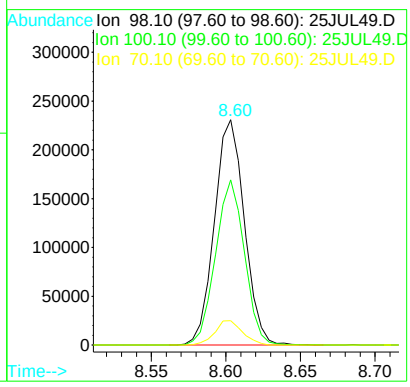


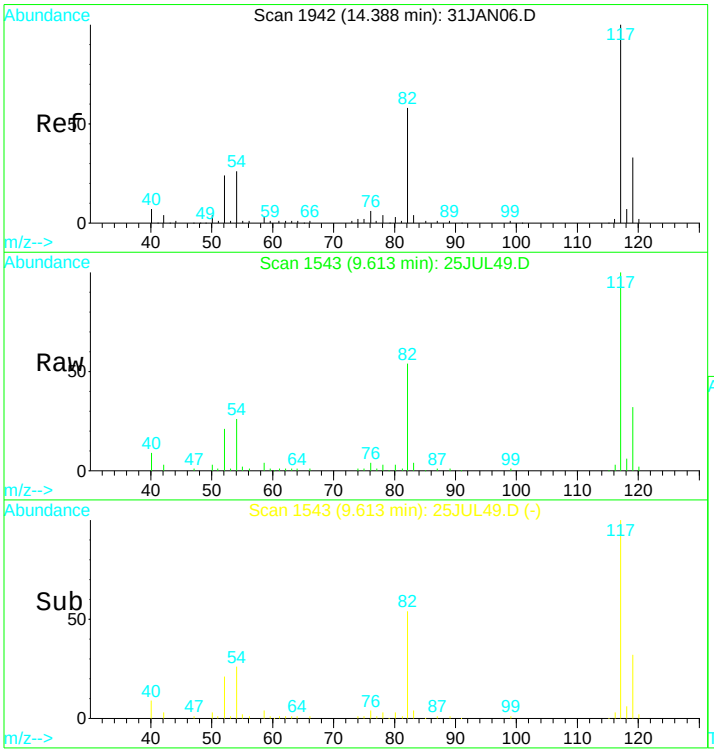


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 25JUL49.D
Acq: 26 Jul 2017 12:05 am

Tgt Ion: 98 Resp: 323843

Ion	Ratio	Lower	Upper
98	100		
100	70.5	49.7	92.3
70	10.1	7.3	13.7

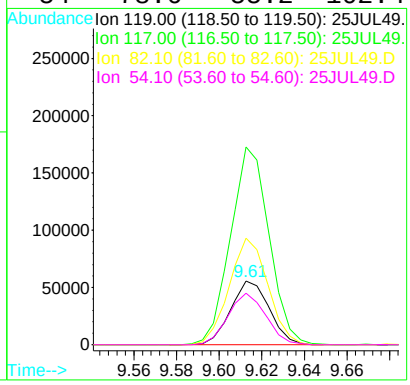


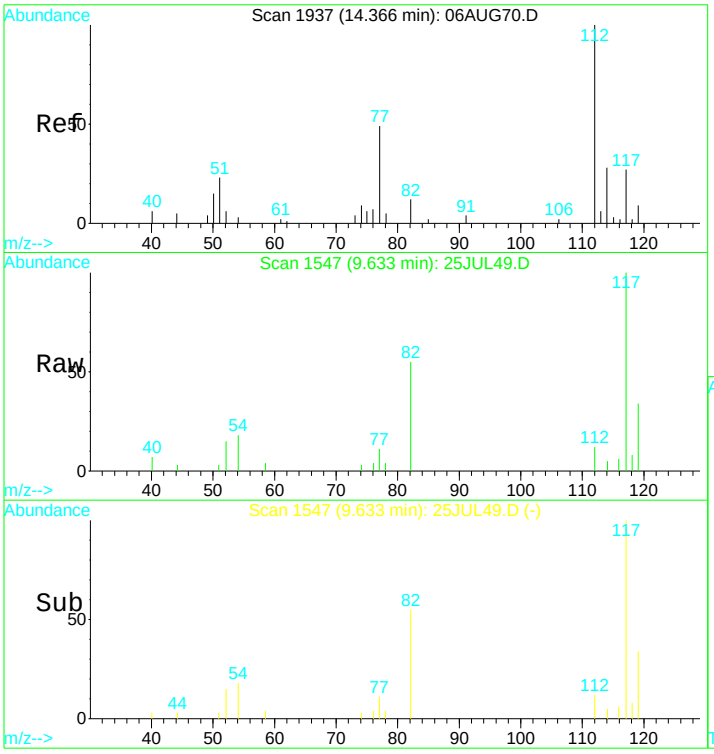


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.61 min Scan# 1543
Delta R.T. -0.00 min
Lab File: 25JUL49.D
Acq: 26 Jul 2017 12:05 am

Tgt Ion:119 Resp: 70371

Ion	Ratio	Lower	Upper
119	100		
117	309.4	214.5	398.4
82	167.4	117.7	218.7
54	78.6	55.2	102.4

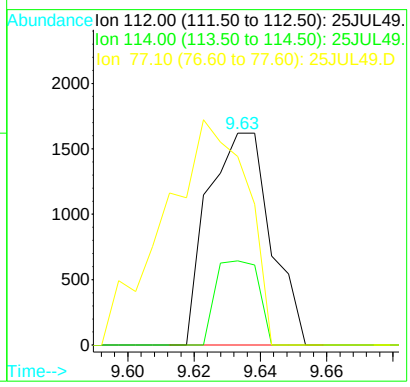


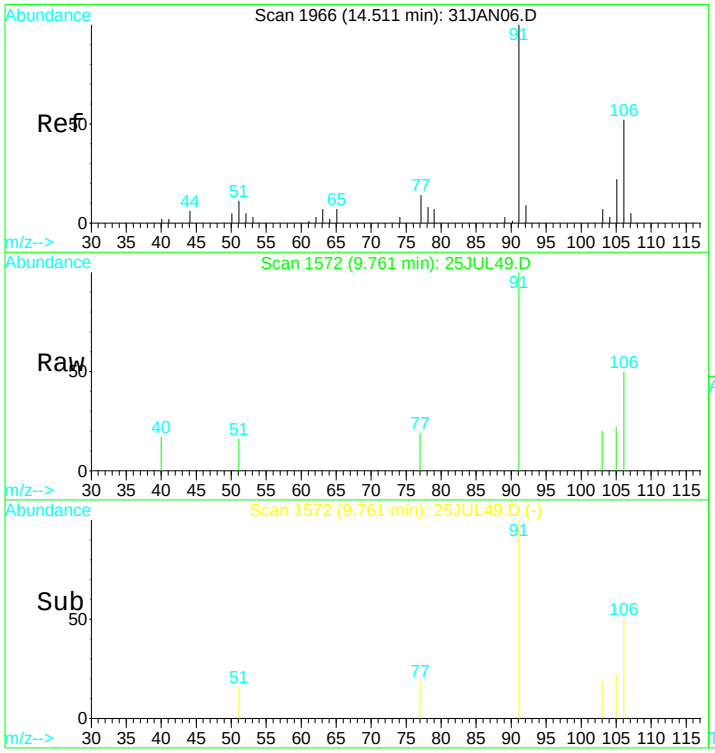


#40
Chlorobenzene
Concen: 0.09 ug/L
RT: 9.63 min Scan# 1547
Delta R.T. -0.00 min
Lab File: 25JUL49.D
Acq: 26 Jul 2017 12:05 am

Tgt Ion:112 Resp: 2130

Ion	Ratio	Lower	Upper
112	100		
114	27.2	20.6	38.4
77	140.5	48.4	90.0#

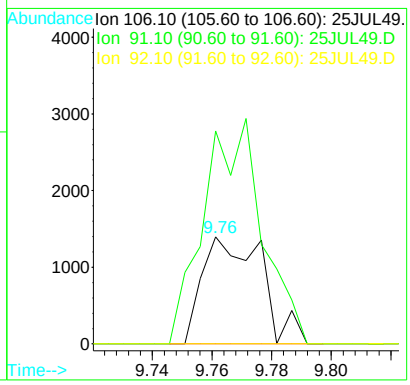


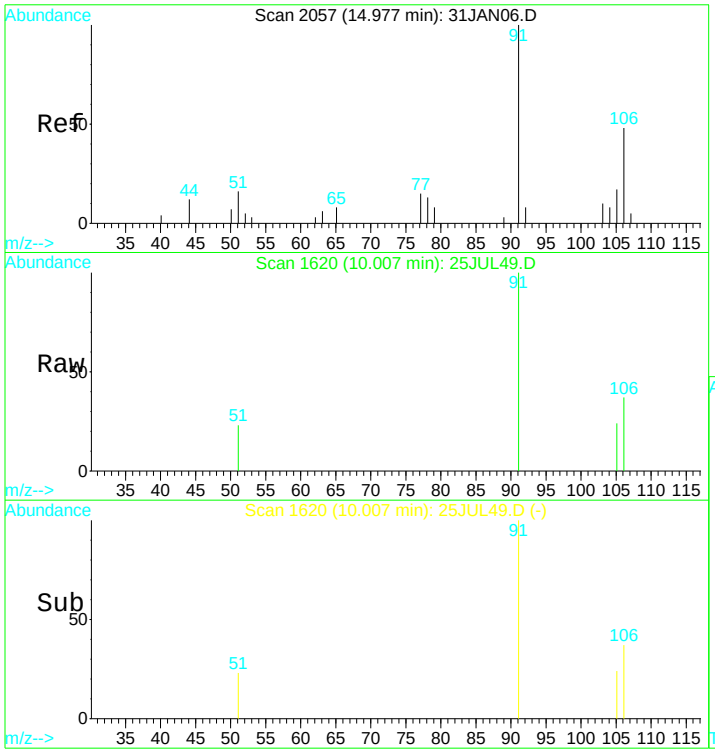


#43
P+m-Xylene
Concen: 0.12 ug/L
RT: 9.76 min Scan# 1572
Delta R.T. -0.01 min
Lab File: 25JUL49.D
Acq: 26 Jul 2017 12:05 am

Tgt Ion:106 Resp: 1930

Ion	Ratio	Lower	Upper
106	100		
91	206.6	135.0	250.6
92	0.0	10.3	19.1#

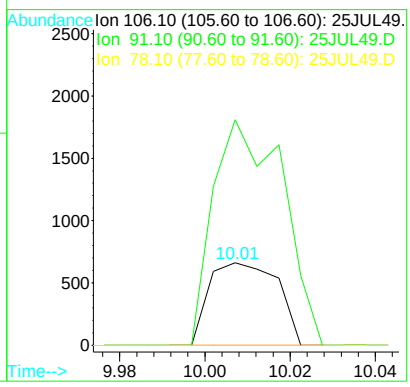


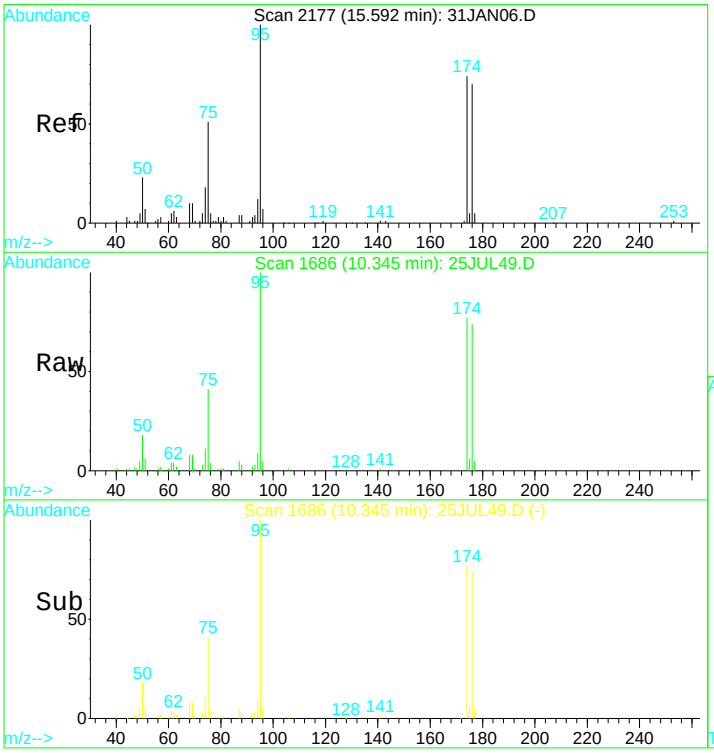


#44
O-Xylene
Concen: 0.05 ug/L
RT: 10.01 min Scan# 1620
Delta R.T. -0.00 min
Lab File: 25JUL49.D
Acq: 26 Jul 2017 12:05 am

Tgt Ion:106 Resp: 738

Ion	Ratio	Lower	Upper
106	100		
91	278.7	154.3	286.5
78	0.0	47.1	87.5#

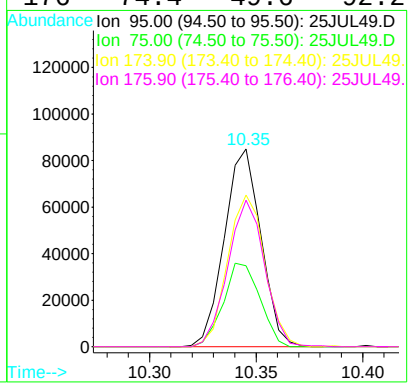


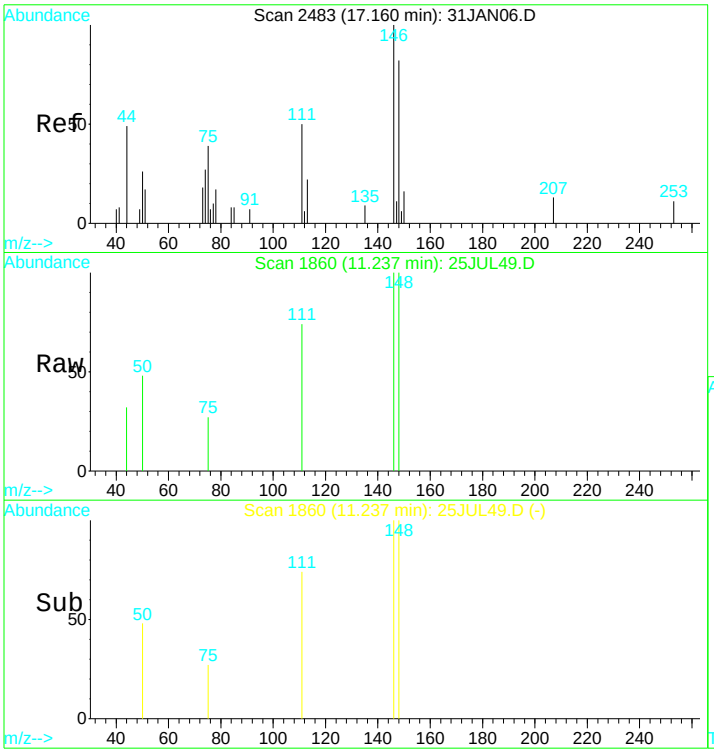


#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.35 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 25JUL49.D
Acq: 26 Jul 2017 12:05 am

Tgt Ion: 95 Resp: 101747

Ion	Ratio	Lower	Upper
95	100		
75	42.3	29.5	54.7
174	78.0	52.3	97.1
176	74.4	49.6	92.2

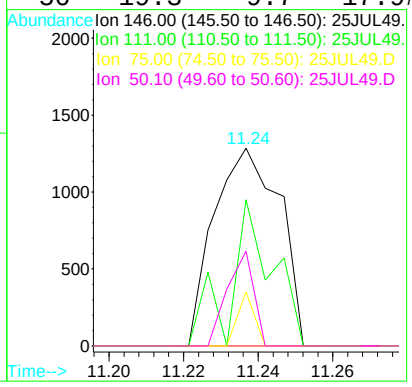




#63
1,2-Dichlorobenzene
Concen: 0.10 ug/L
RT: 11.24 min Scan# 1860
Delta R.T. -0.00 min
Lab File: 25JUL49.D
Acq: 26 Jul 2017 12:05 am

Tgt Ion:146 Resp: 1572

Ion	Ratio	Lower	Upper
146	100		
111	47.5	28.8	53.6
75	6.9	19.8	36.8#
50	19.3	9.7	17.9#



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL49.D Vial: 49
Acq On : 26 Jul 2017 12:05 am Operator: MGC
Sample : 1720121-03 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:51 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	179151	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	266859	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	70371	10.00	ug/L	0.00

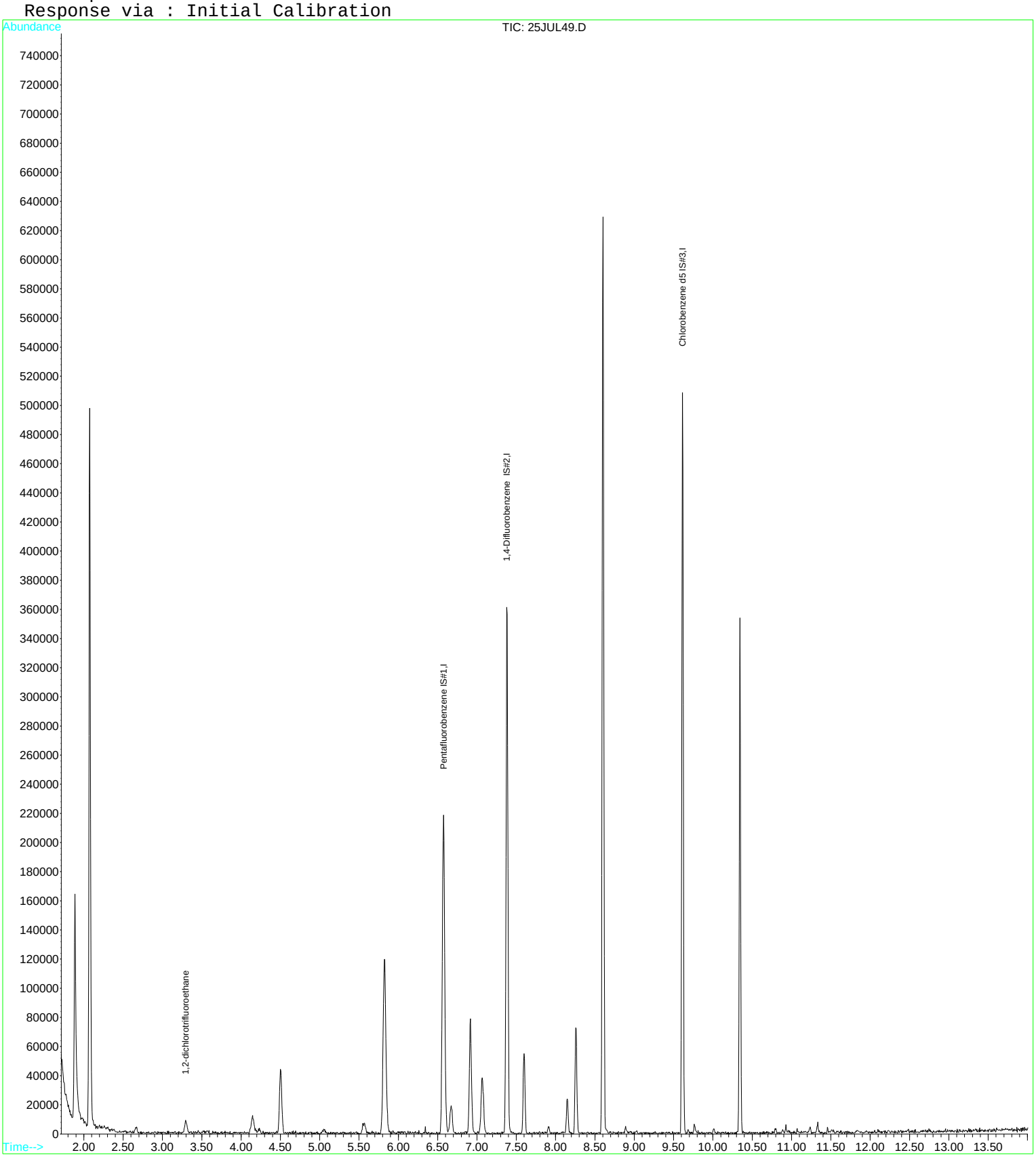
Target Compounds						Qvalue
4) 1,2-dichlorotrifluoroethan	3.30	67	6144	0.52	ug/L #	85

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL49.D Vial: 49
Acq On : 26 Jul 2017 12:05 am Operator: MGC
Sample : 1720121-03 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:51 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL50.D Vial: 50
Acq On : 26 Jul 2017 12:28 am Operator: MGC
Sample : 1720121-04 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:52 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	171127	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	256910	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	69962	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.91	65	52700	10.54	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 105.40%			
31) Toluene d8 SMC#2	8.60	98	316680	9.98	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.80%			
49) Bromofluorobenzene SMC#3	10.35	95	103229	9.88	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.80%			

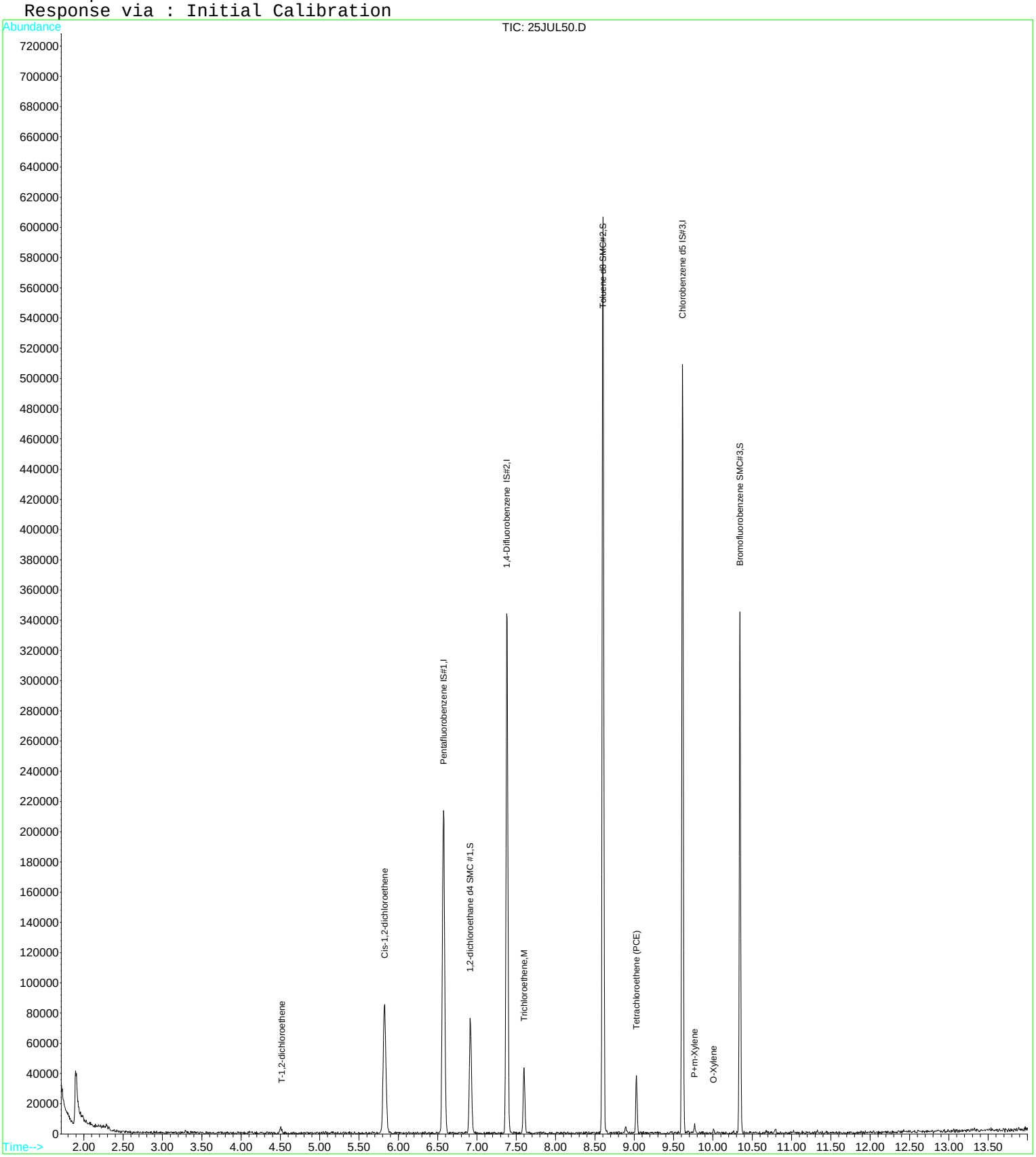
Target Compounds						Qvalue
12) T-1,2-dichloroethene	4.51	96	1383	0.16	ug/L	79
15) Cis-1,2-dichloroethene	5.82	96	46712	5.23	ug/L	87
25) Trichloroethene	7.60	130	12760	1.45	ug/L	90
35) Tetrachloroethene (PCE)	9.03	166	9423	1.11	ug/L	97
43) P+m-Xylene	9.77	106	1804	0.11	ug/L #	91
44) O-Xylene	10.01	106	839	0.05	ug/L #	58

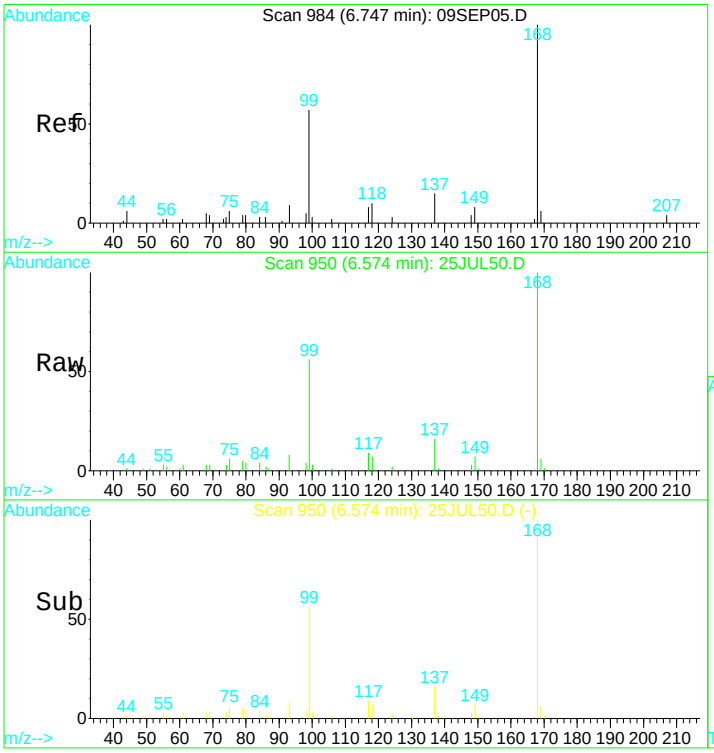
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL50.D Vial: 50
Acq On : 26 Jul 2017 12:28 am Operator: MGC
Sample : 1720121-04 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:52 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

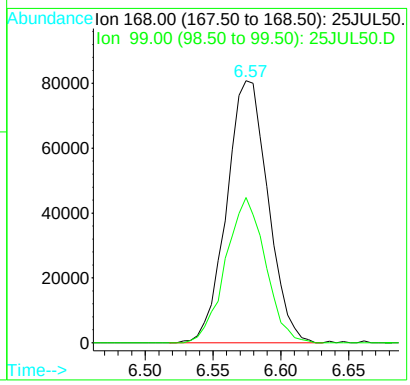


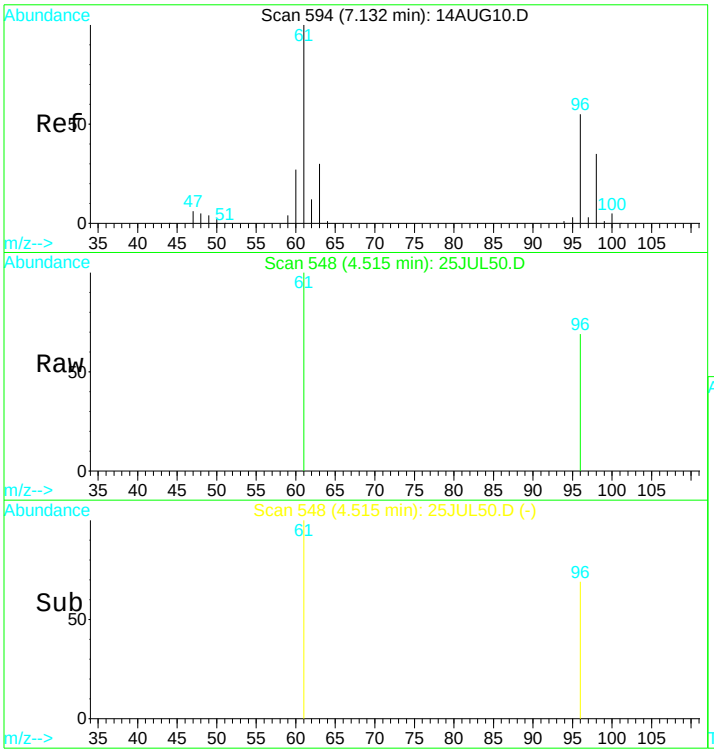


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 25JUL50.D
Acq: 26 Jul 2017 12:28 am

Tgt Ion:168 Resp: 171127

Ion	Ratio	Lower	Upper
168	100		
99	53.3	38.7	71.9

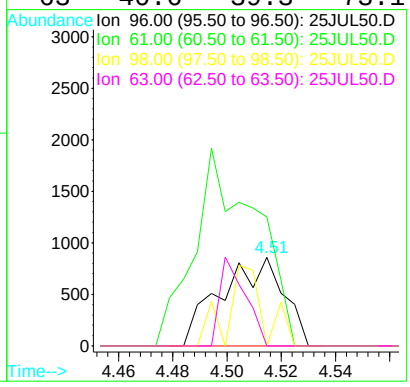


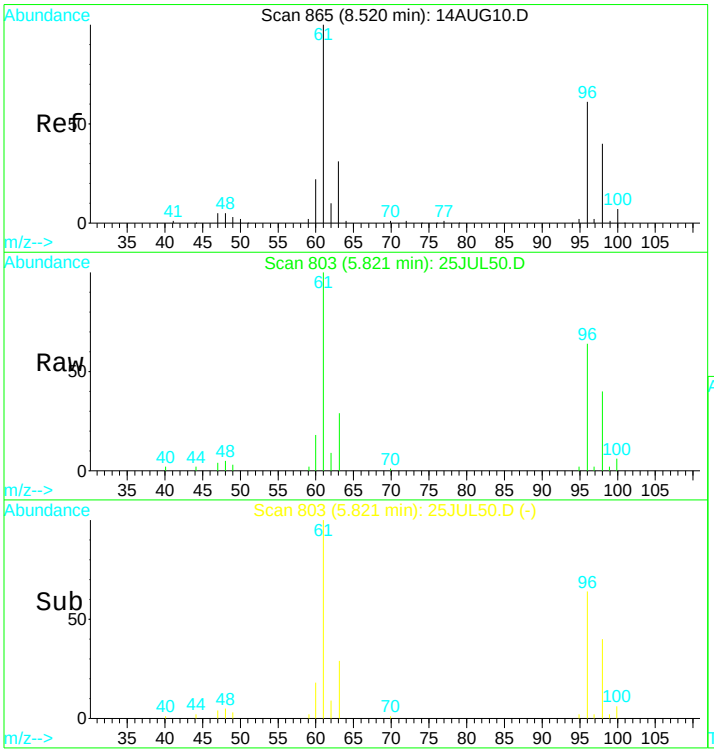


#12
T-1,2-dichloroethene
Concen: 0.16 ug/L
RT: 4.51 min Scan# 548
Delta R.T. 0.01 min
Lab File: 25JUL50.D
Acq: 26 Jul 2017 12:28 am

Tgt Ion: 96 Resp: 1383

Ion	Ratio	Lower	Upper
96	100		
61	219.6	129.4	240.4
98	52.7	41.5	77.1
63	40.6	39.3	73.1

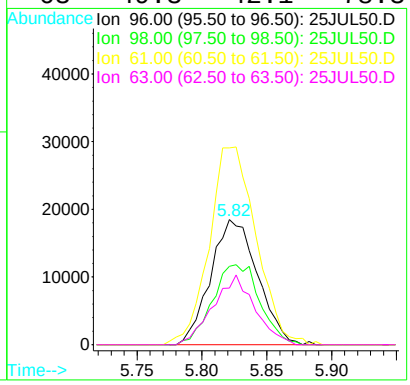


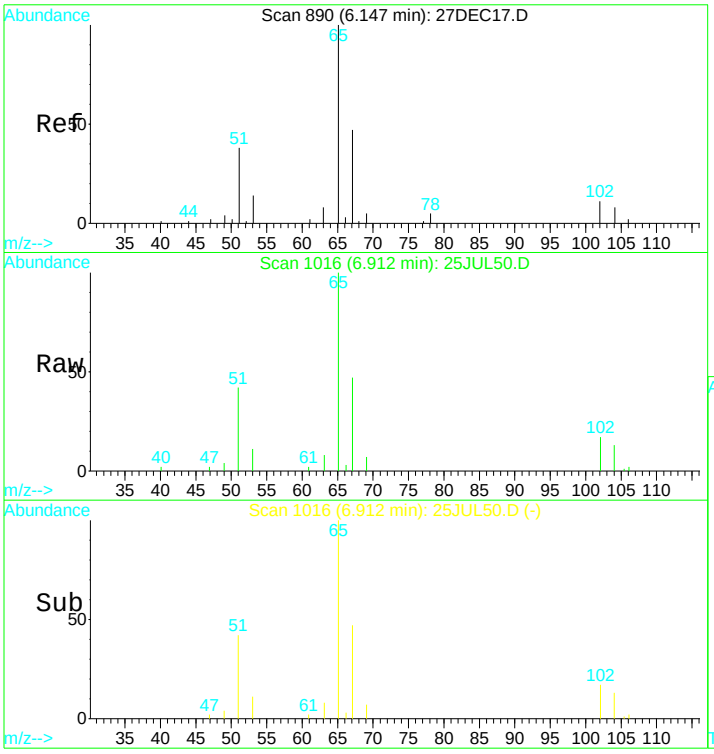


#15
Cis-1,2-dichloroethene
Concen: 5.23 ug/L
RT: 5.82 min Scan# 803
Delta R.T. -0.00 min
Lab File: 25JUL50.D
Acq: 26 Jul 2017 12:28 am

Tgt Ion: 96 Resp: 46712

Ion	Ratio	Lower	Upper
96	100		
98	64.3	51.9	96.3
61	157.3	122.8	228.0
63	49.3	42.1	78.3

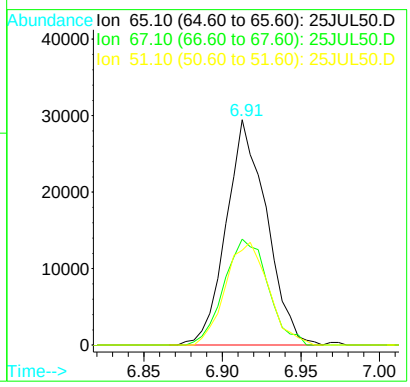


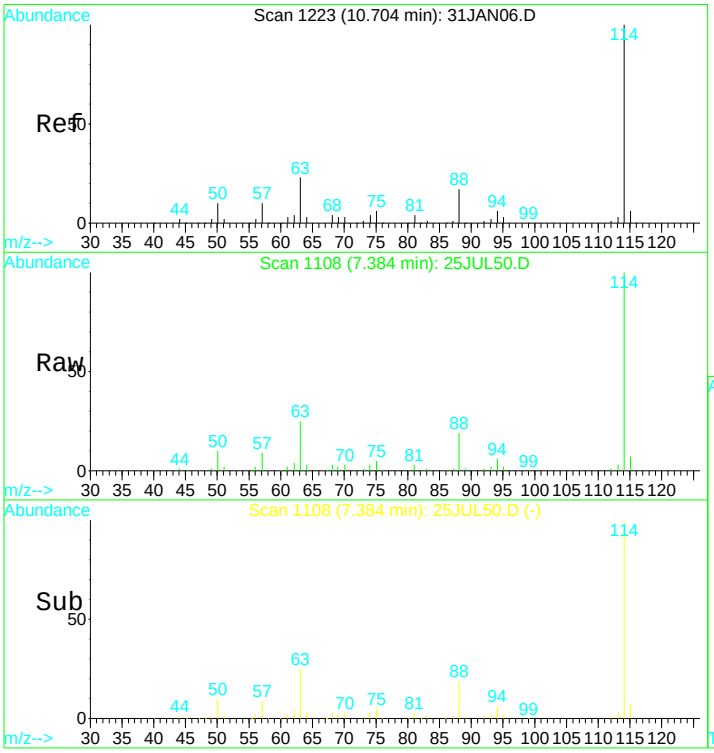


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.91 min Scan# 1016
Delta R.T. -0.00 min
Lab File: 25JUL50.D
Acq: 26 Jul 2017 12:28 am

Tgt Ion: 65 Resp: 52700

Ion	Ratio	Lower	Upper
65	100		
67	51.3	36.2	67.2
51	48.6	42.0	78.0

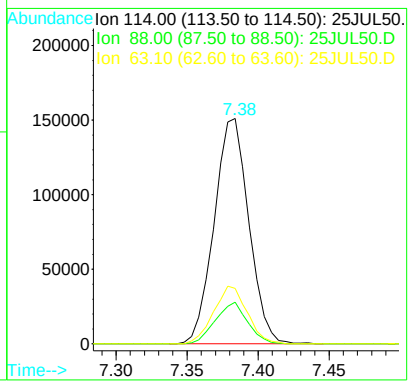


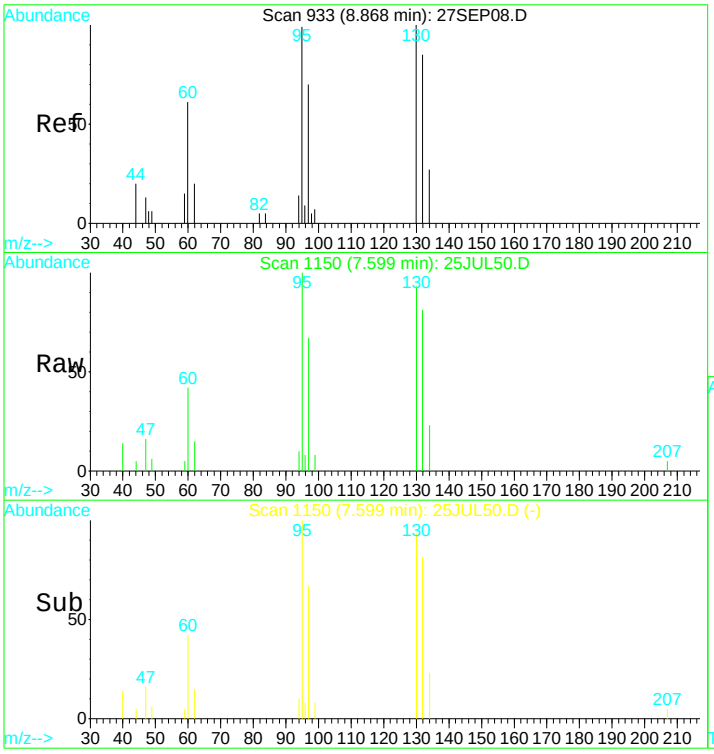


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 25JUL50.D
Acq: 26 Jul 2017 12:28 am

Tgt Ion:114 Resp: 256910

Ion	Ratio	Lower	Upper
114	100		
88	17.1	11.7	21.7
63	24.8	16.7	30.9

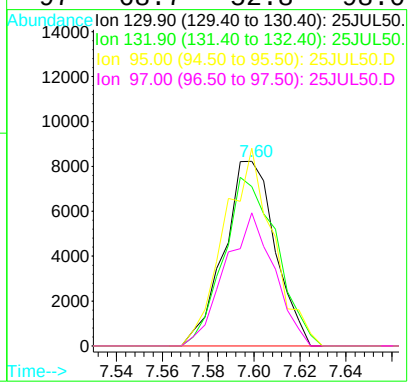


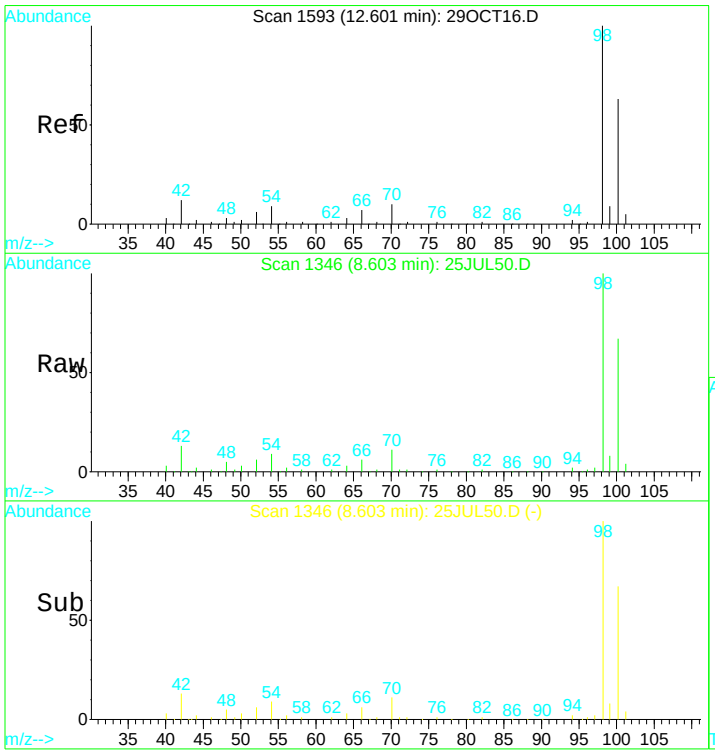


#25
Trichloroethene
Concen: 1.45 ug/L
RT: 7.60 min Scan# 1150
Delta R.T. 0.00 min
Lab File: 25JUL50.D
Acq: 26 Jul 2017 12:28 am

Tgt Ion:130 Resp: 12760

Ion	Ratio	Lower	Upper
130	100		
132	94.8	66.1	122.7
95	102.2	86.1	159.9
97	68.7	52.8	98.0

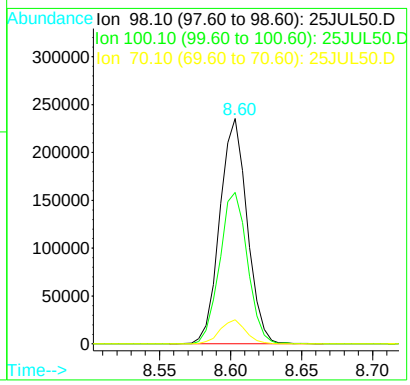


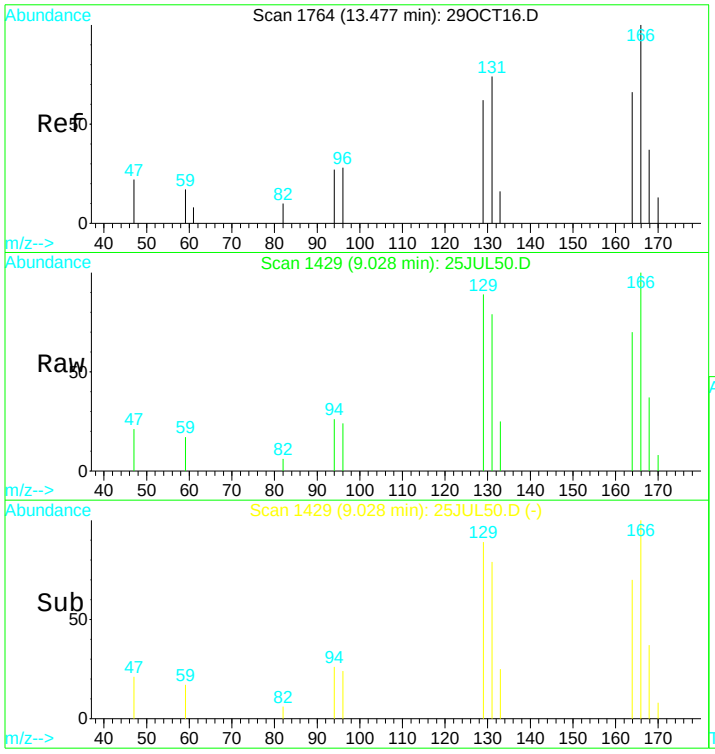


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 25JUL50.D
Acq: 26 Jul 2017 12:28 am

Tgt Ion: 98 Resp: 316680

Ion	Ratio	Lower	Upper
98	100		
100	68.1	49.7	92.3
70	10.0	7.3	13.7

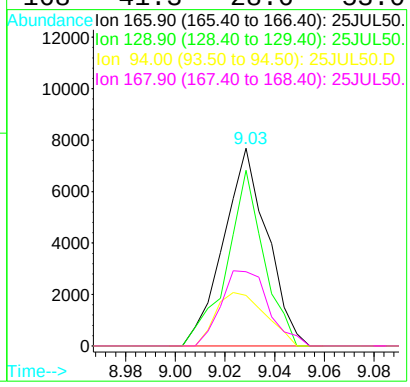


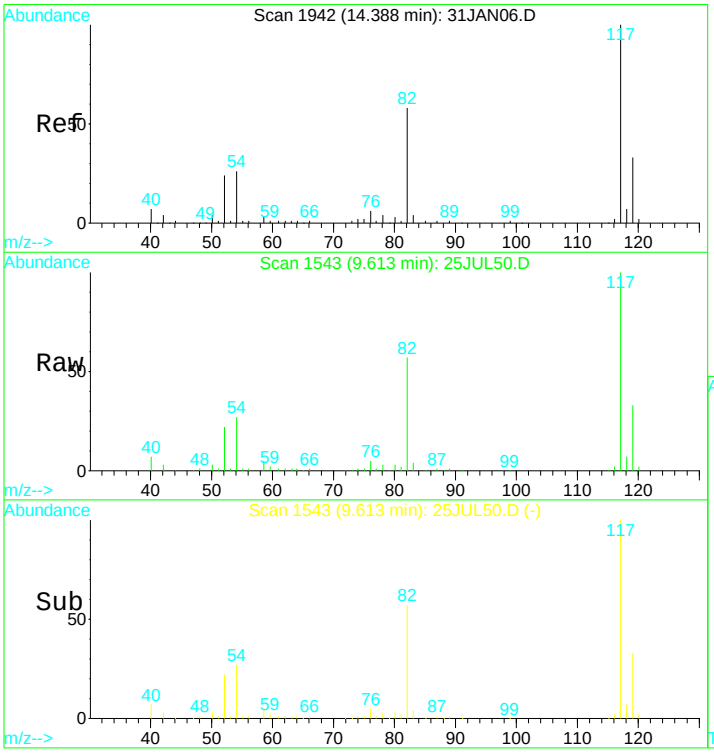


#35
Tetrachloroethene (PCE)
Concen: 1.11 ug/L
RT: 9.03 min Scan# 1429
Delta R.T. 0.00 min
Lab File: 25JUL50.D
Acq: 26 Jul 2017 12:28 am

Tgt Ion:166 Resp: 9423

Ion	Ratio	Lower	Upper
166	100		
129	74.6	54.3	100.8
94	30.6	24.1	44.7
168	41.3	28.6	53.0

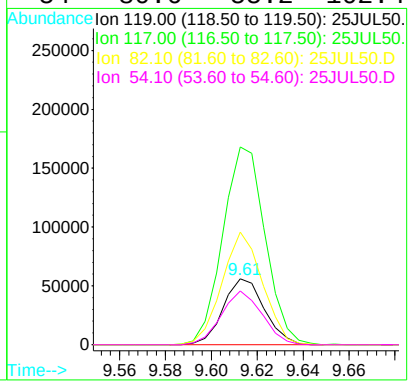


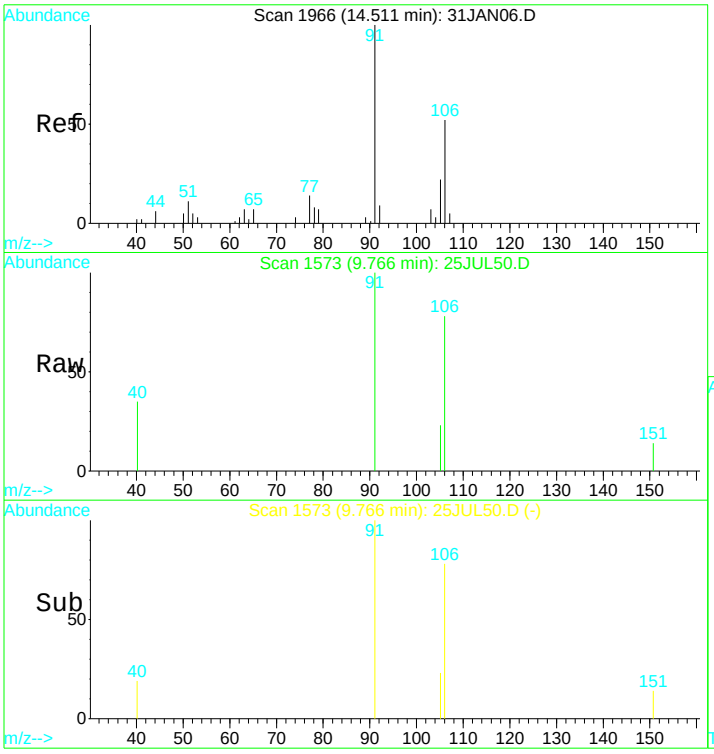


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.61 min Scan# 1543
Delta R.T. -0.00 min
Lab File: 25JUL50.D
Acq: 26 Jul 2017 12:28 am

Tgt Ion:119 Resp: 69962

Ion	Ratio	Lower	Upper
119	100		
117	309.2	214.5	398.4
82	168.2	117.7	218.7
54	80.6	55.2	102.4

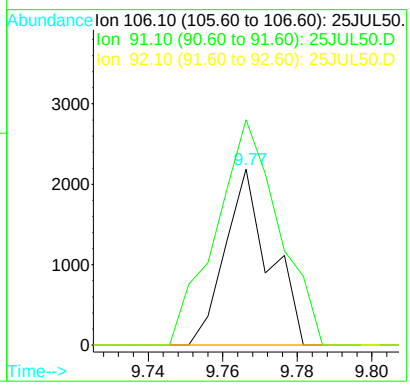


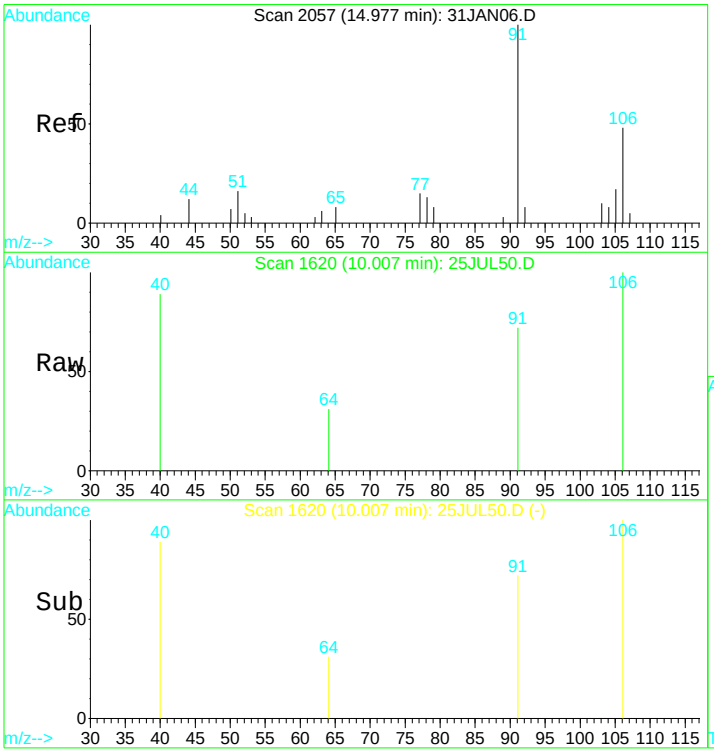


#43
P+m-Xylene
Concen: 0.11 ug/L
RT: 9.77 min Scan# 1573
Delta R.T. -0.00 min
Lab File: 25JUL50.D
Acq: 26 Jul 2017 12:28 am

Tgt Ion:106 Resp: 1804

Ion	Ratio	Lower	Upper
106	100		
91	182.3	135.0	250.6
92	0.0	10.3	19.1#

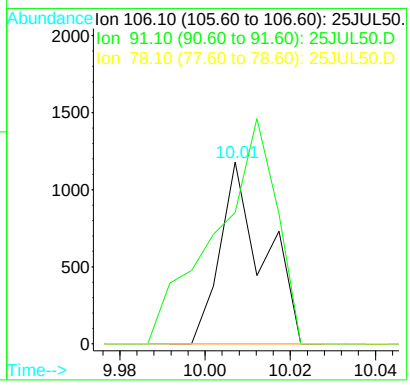


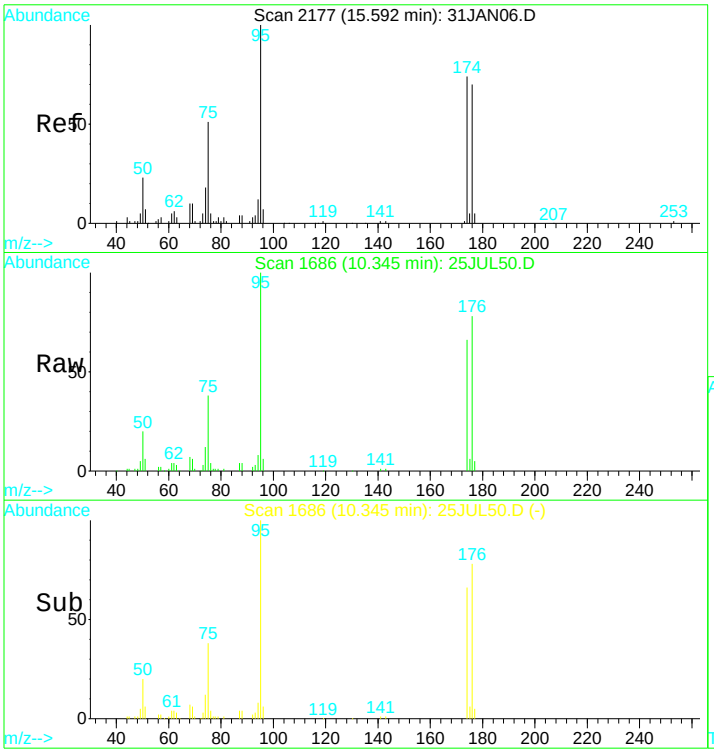


#44
O-Xylene
Concen: 0.05 ug/L
RT: 10.01 min Scan# 1620
Delta R.T. -0.00 min
Lab File: 25JUL50.D
Acq: 26 Jul 2017 12:28 am

Tgt Ion:106 Resp: 839

Ion	Ratio	Lower	Upper
106	100		
91	173.8	154.3	286.5
78	0.0	47.1	87.5#

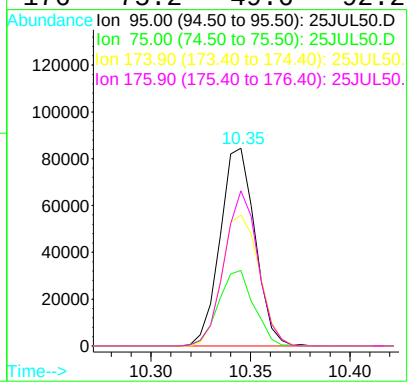




#49
Bromofluorobenzene SMC#3
Concen: Below ug/L
RT: 10.35 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 25JUL50.D
Acq: 26 Jul 2017 12:28 am

Tgt Ion: 95 Resp: 103229

Ion	Ratio	Lower	Upper
95	100		
75	38.7	29.5	54.7
174	70.5	52.3	97.1
176	75.2	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL50.D Vial: 50
Acq On : 26 Jul 2017 12:28 am Operator: MGC
Sample : 1720121-04 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:53 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	171127	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	256910	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	69962	10.00	ug/L	0.00

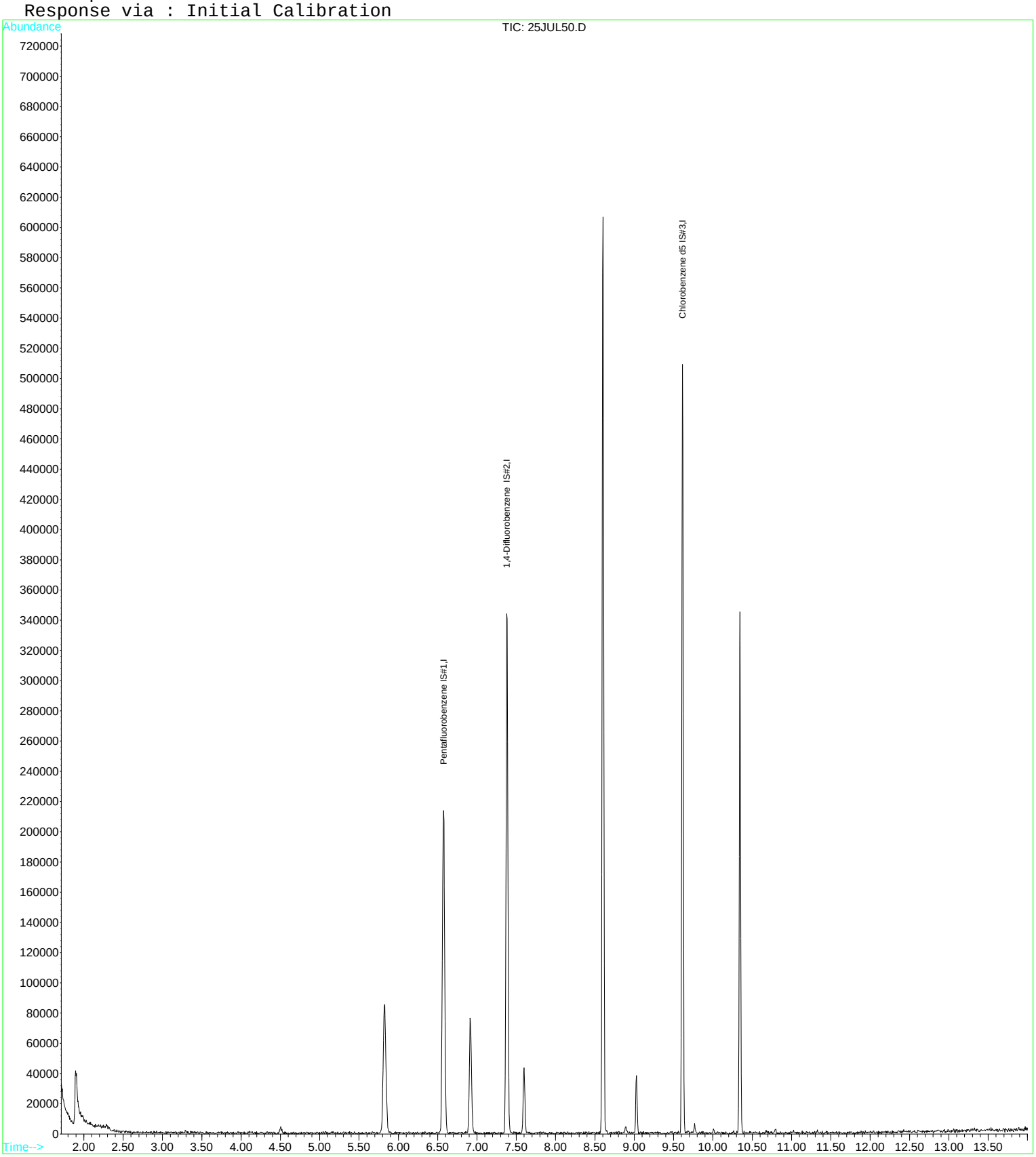
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL50.D Vial: 50
Acq On : 26 Jul 2017 12:28 am Operator: MGC
Sample : 1720121-04 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:53 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL51.D Vial: 51
Acq On : 26 Jul 2017 12:50 am Operator: MGC
Sample : 1720121-05 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:54 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	170003	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	254274	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	67556	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	49588	9.99	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 99.90%			
31) Toluene d8 SMC#2	8.60	98	305822	9.74	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.40%			
49) Bromofluorobenzene SMC#3	10.34	95	97275	9.64	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.40%			

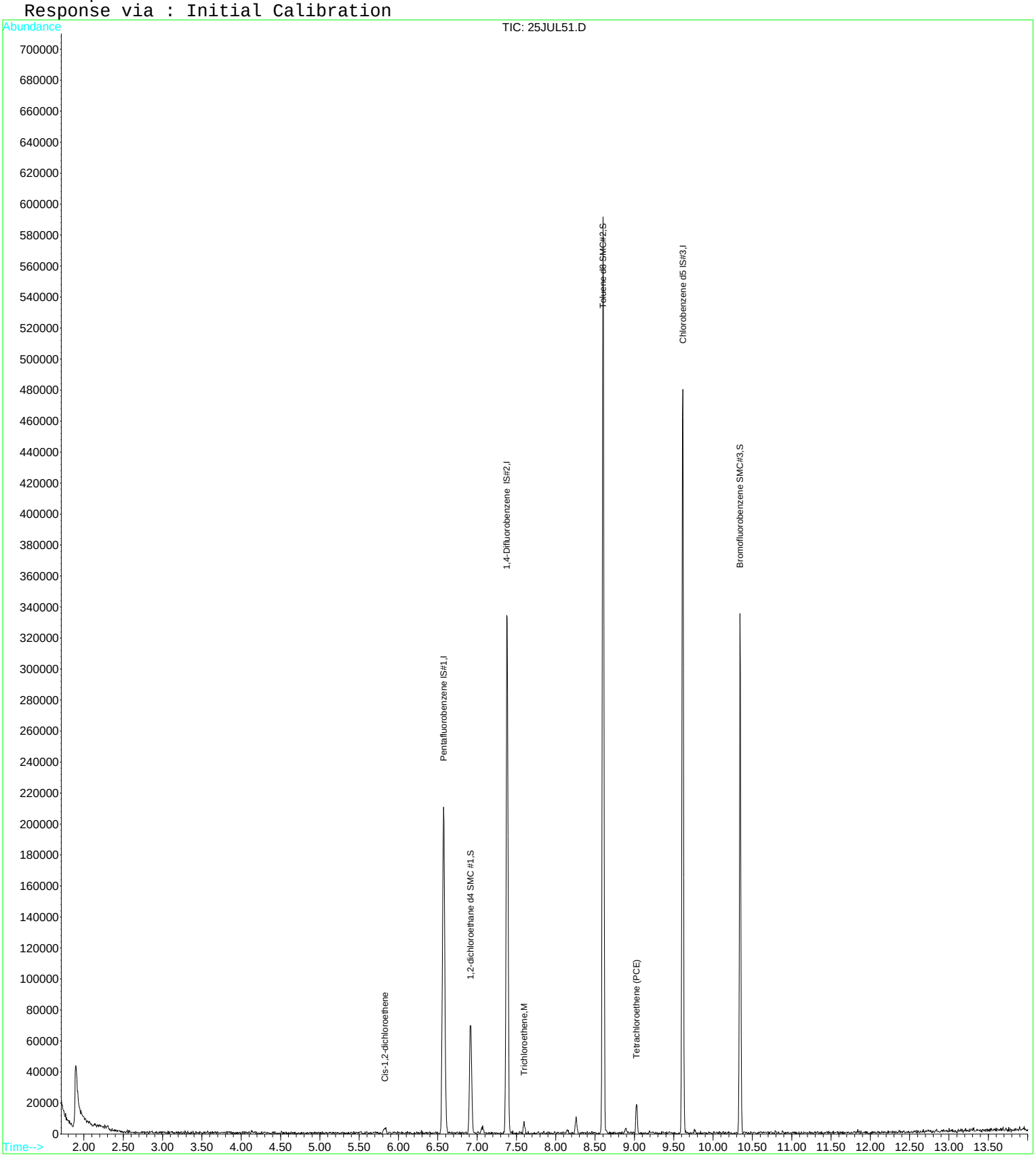
Target Compounds						Qvalue
15) Cis-1,2-dichloroethene	5.82	96	1664	0.19	ug/L #	67
25) Trichloroethene	7.60	130	1845	0.21	ug/L	89
35) Tetrachloroethene (PCE)	9.03	166	5224	0.62	ug/L	92

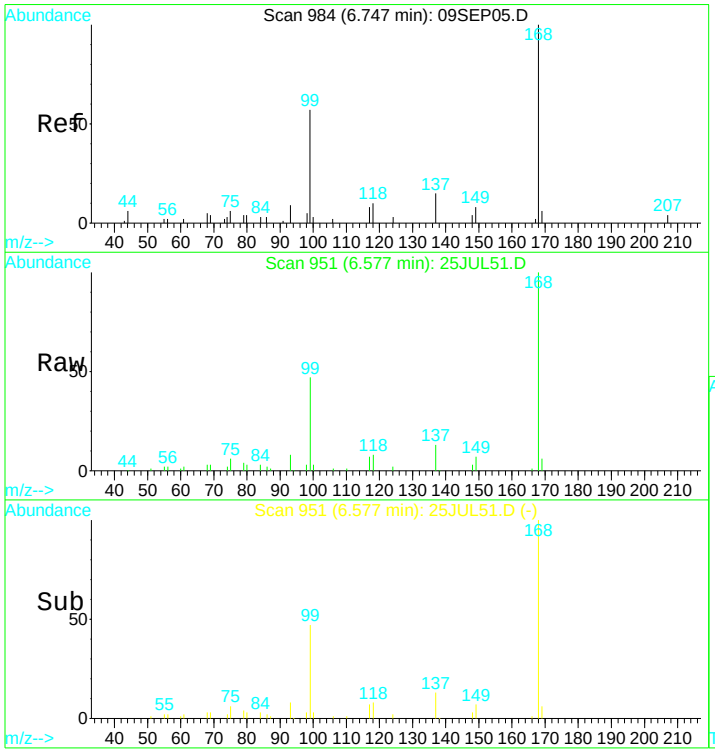
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL51.D Vial: 51
Acq On : 26 Jul 2017 12:50 am Operator: MGC
Sample : 1720121-05 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:54 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

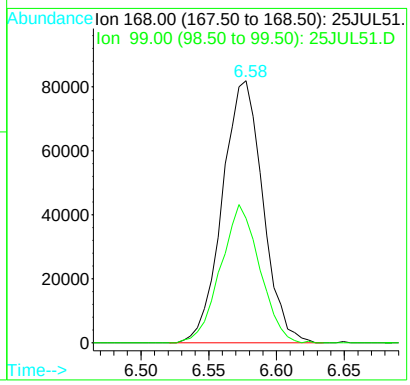


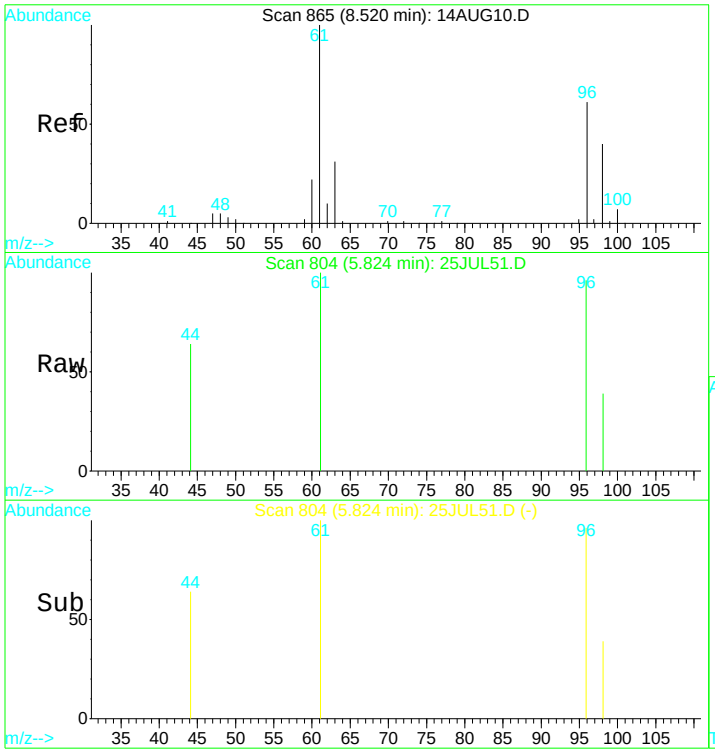


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 951
Delta R.T. 0.00 min
Lab File: 25JUL51.D
Acq: 26 Jul 2017 12:50 am

Tgt Ion:168 Resp: 170003

Ion	Ratio	Lower	Upper
168	100		
99	51.0	38.7	71.9

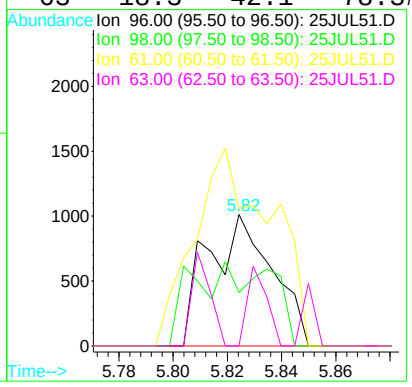


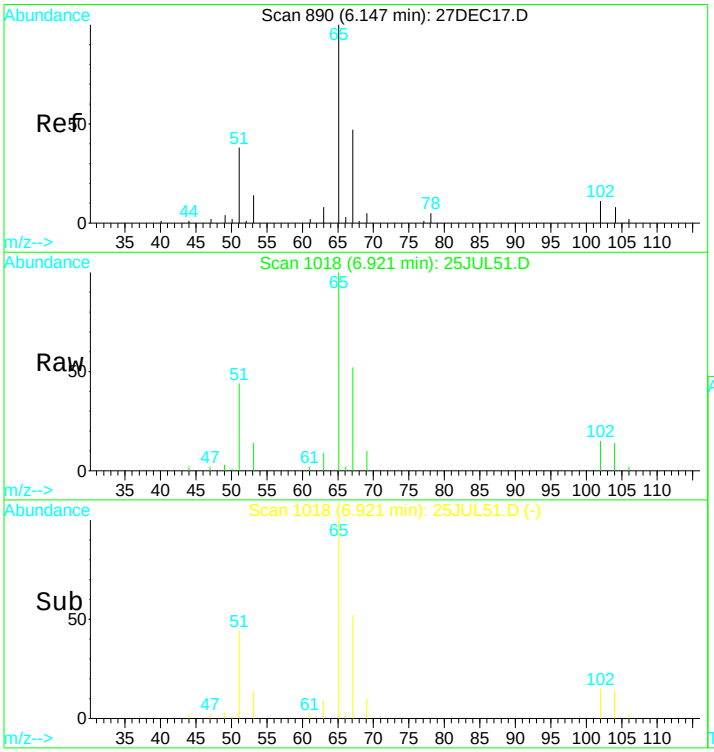


#15
Cis-1,2-dichloroethene
Concen: 0.19 ug/L
RT: 5.82 min Scan# 804
Delta R.T. 0.00 min
Lab File: 25JUL51.D
Acq: 26 Jul 2017 12:50 am

Tgt Ion: 96 Resp: 1664

Ion	Ratio	Lower	Upper
96	100		
98	0.0	51.9	96.3#
61	179.0	122.8	228.0
63	18.3	42.1	78.3#

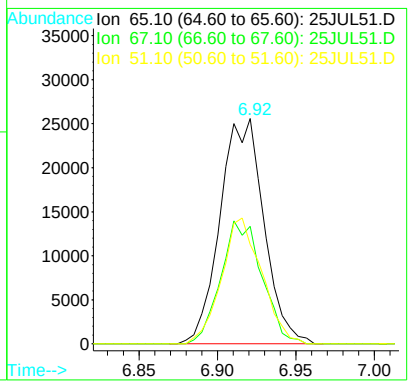


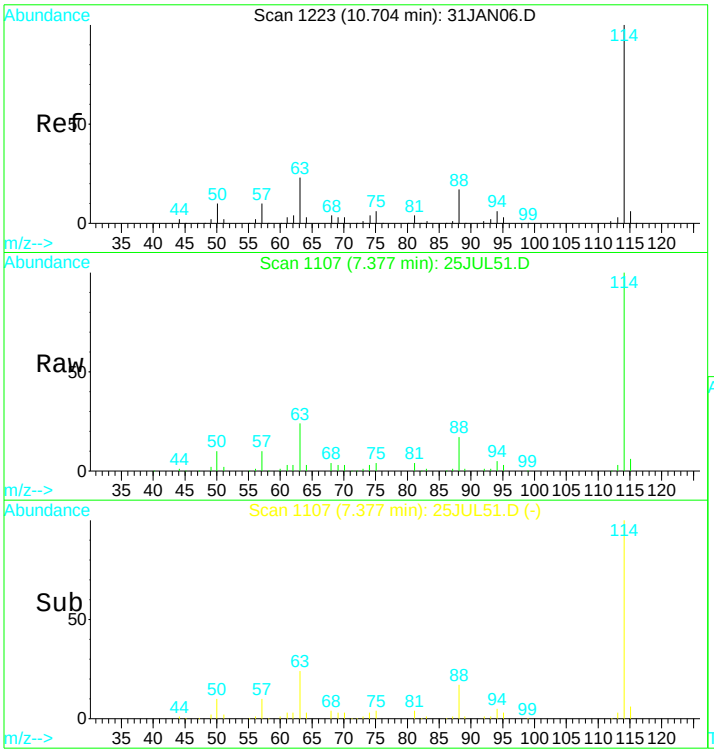


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1018
Delta R.T. 0.01 min
Lab File: 25JUL51.D
Acq: 26 Jul 2017 12:50 am

Tgt Ion: 65 Resp: 49588

Ion	Ratio	Lower	Upper
65	100		
67	51.2	36.2	67.2
51	51.3	42.0	78.0

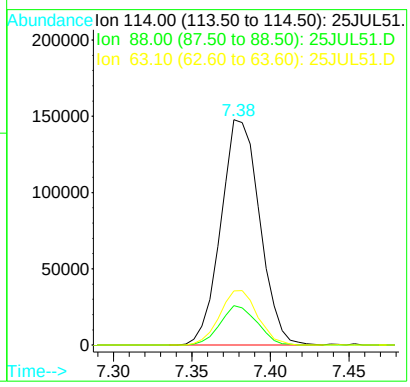


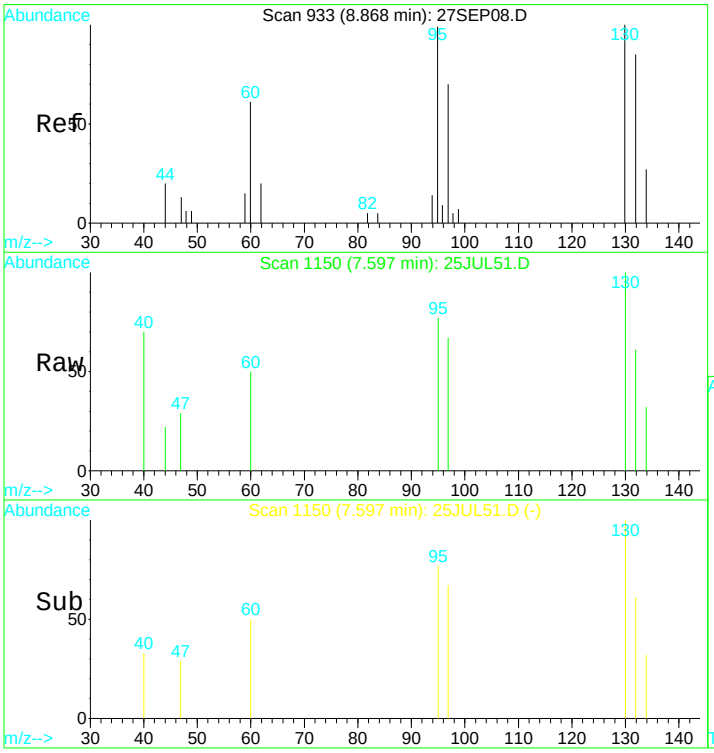


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1107
Delta R.T. -0.00 min
Lab File: 25JUL51.D
Acq: 26 Jul 2017 12:50 am

Tgt Ion:114 Resp: 254274

Ion	Ratio	Lower	Upper
114	100		
88	16.6	11.7	21.7
63	23.6	16.7	30.9

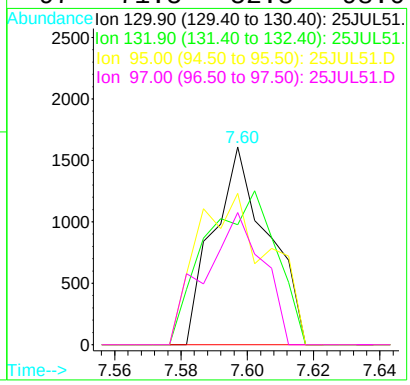


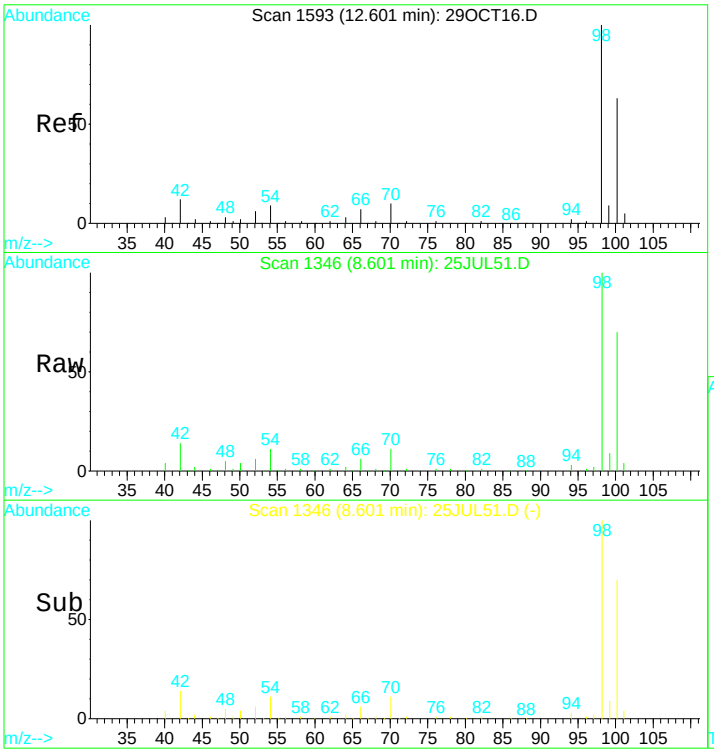


#25
Trichloroethene
Concen: 0.21 ug/L
RT: 7.60 min Scan# 1150
Delta R.T. 0.00 min
Lab File: 25JUL51.D
Acq: 26 Jul 2017 12:50 am

Tgt Ion:130 Resp: 1845

Ion	Ratio	Lower	Upper
130	100		
132	99.1	66.1	122.7
95	100.3	86.1	159.9
97	71.5	52.8	98.0

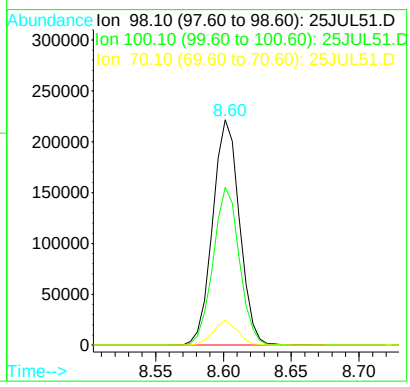


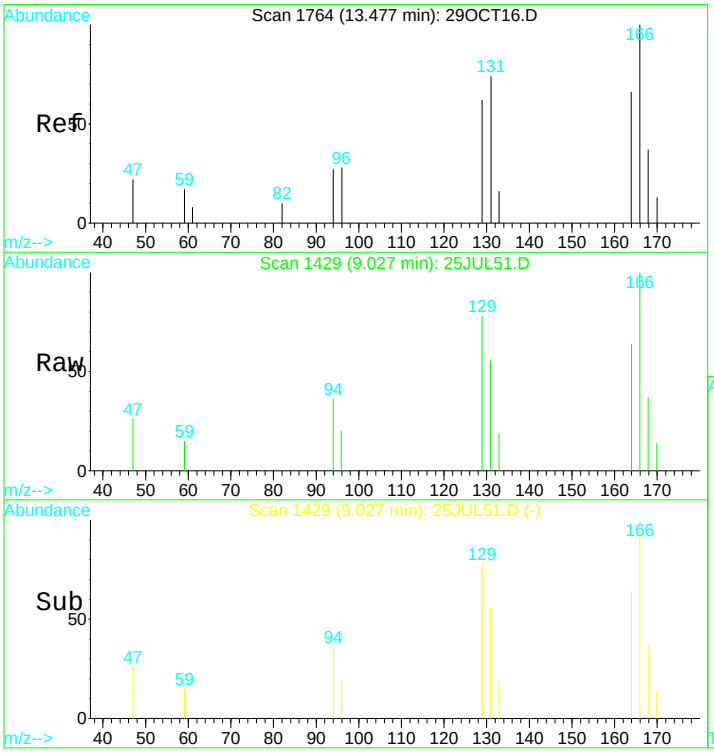


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 25JUL51.D
Acq: 26 Jul 2017 12:50 am

Tgt Ion: 98 Resp: 305822

Ion	Ratio	Lower	Upper
98	100		
100	68.4	49.7	92.3
70	10.0	7.3	13.7

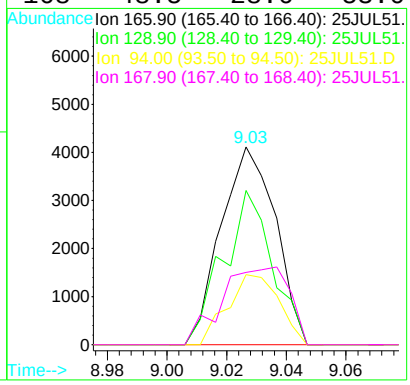


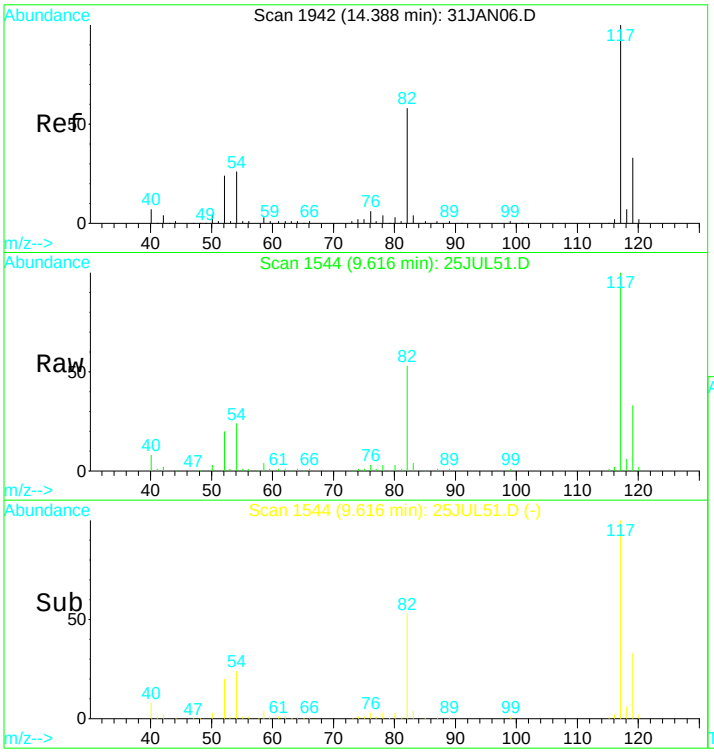


#35
Tetrachloroethene (PCE)
Concen: 0.62 ug/L
RT: 9.03 min Scan# 1429
Delta R.T. 0.00 min
Lab File: 25JUL51.D
Acq: 26 Jul 2017 12:50 am

Tgt Ion:166 Resp: 5224

Ion	Ratio	Lower	Upper
166	100		
129	70.1	54.3	100.8
94	33.5	24.1	44.7
168	48.5	28.6	53.0

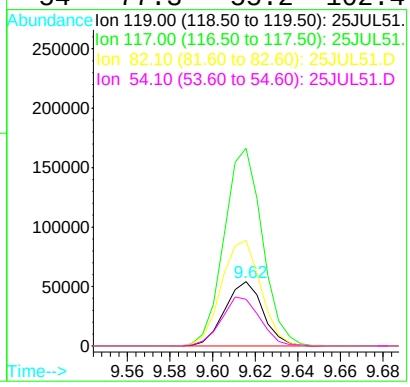


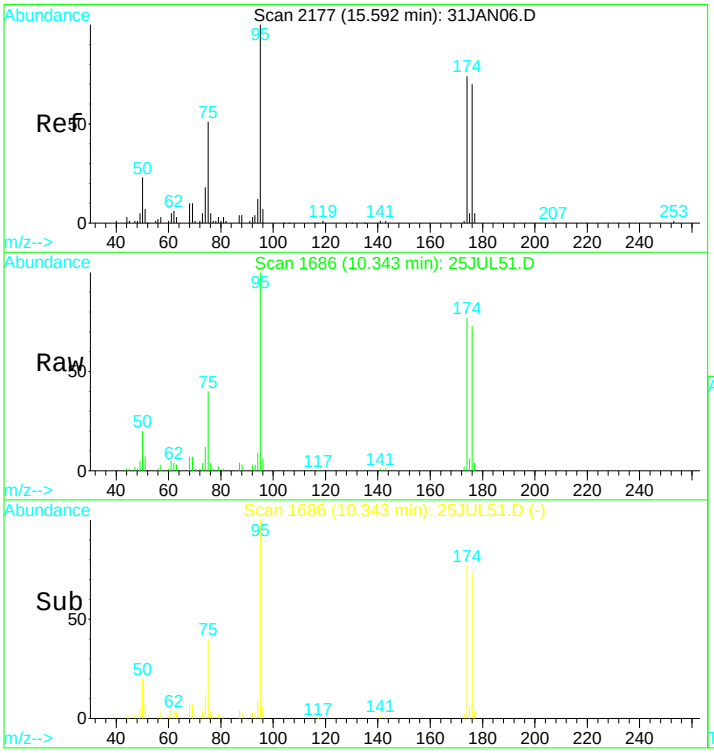


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 25JUL51.D
Acq: 26 Jul 2017 12:50 am

Tgt Ion:119 Resp: 67556

Ion	Ratio	Lower	Upper
119	100		
117	308.2	214.5	398.4
82	169.6	117.7	218.7
54	77.3	55.2	102.4

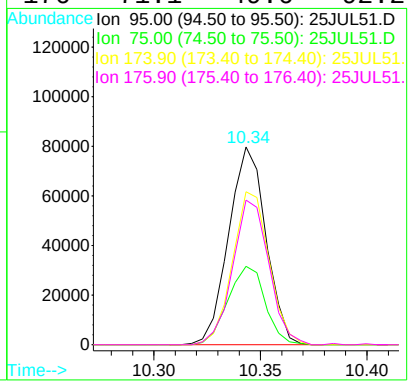




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 25JUL51.D
Acq: 26 Jul 2017 12:50 am

Tgt Ion: 95 Resp: 97275

Ion	Ratio	Lower	Upper
95	100		
75	39.7	29.5	54.7
174	75.7	52.3	97.1
176	71.1	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL51.D Vial: 51
Acq On : 26 Jul 2017 12:50 am Operator: MGC
Sample : 1720121-05 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:54 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	170003	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	254274	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	67556	10.00	ug/L	0.00

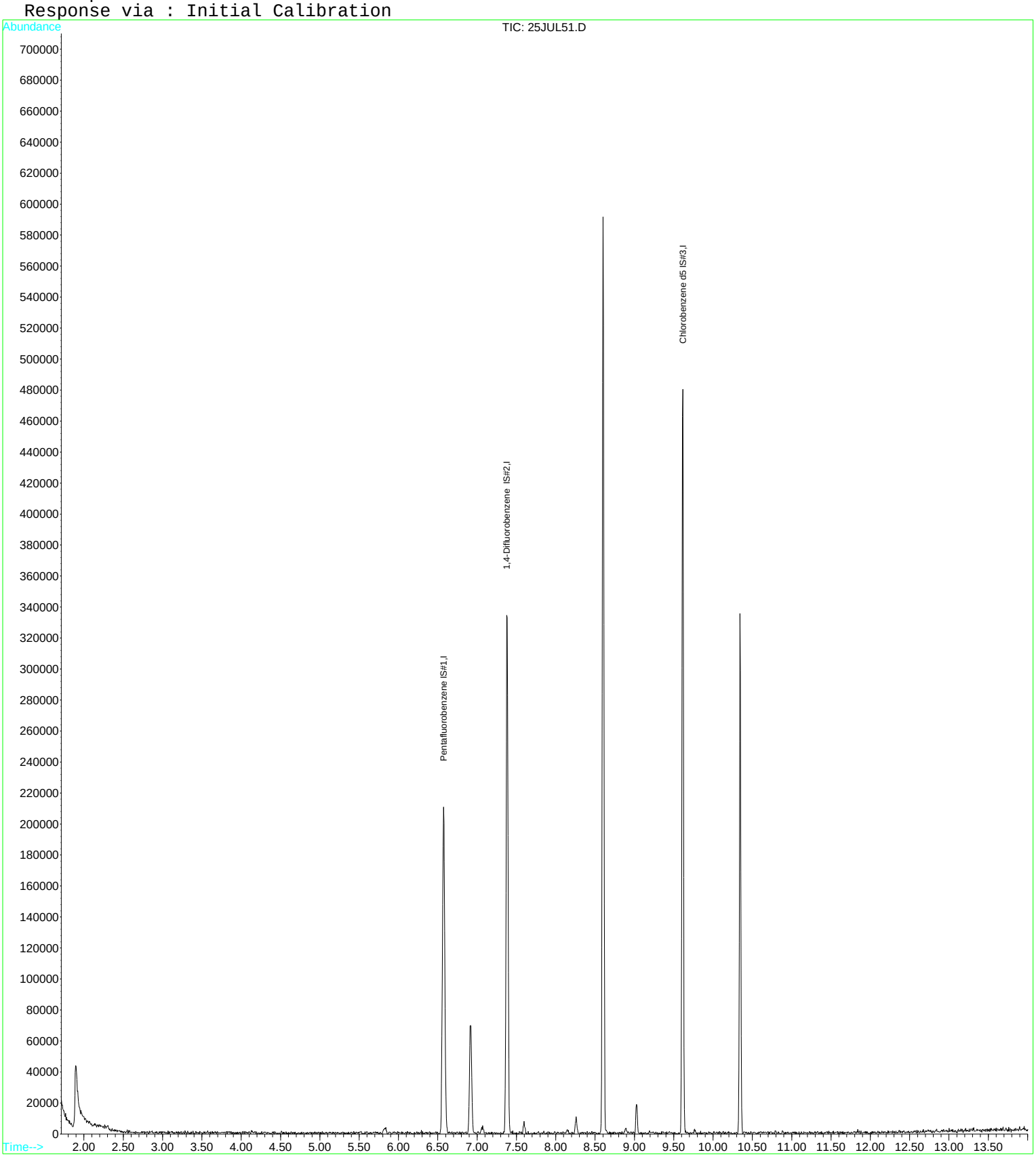
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL51.D Vial: 51
Acq On : 26 Jul 2017 12:50 am Operator: MGC
Sample : 1720121-05 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:54 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL52.D Vial: 52
Acq On : 26 Jul 2017 1:13 am Operator: MGC
Sample : 1720121-06 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:55 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	166659	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	247952	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	68139	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.92	65	49792	10.23	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 102.30%			
31) Toluene d8 SMC#2	8.60	98	299044	9.77	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.70%			
49) Bromofluorobenzene SMC#3	10.34	95	94219	9.26	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 92.60%			

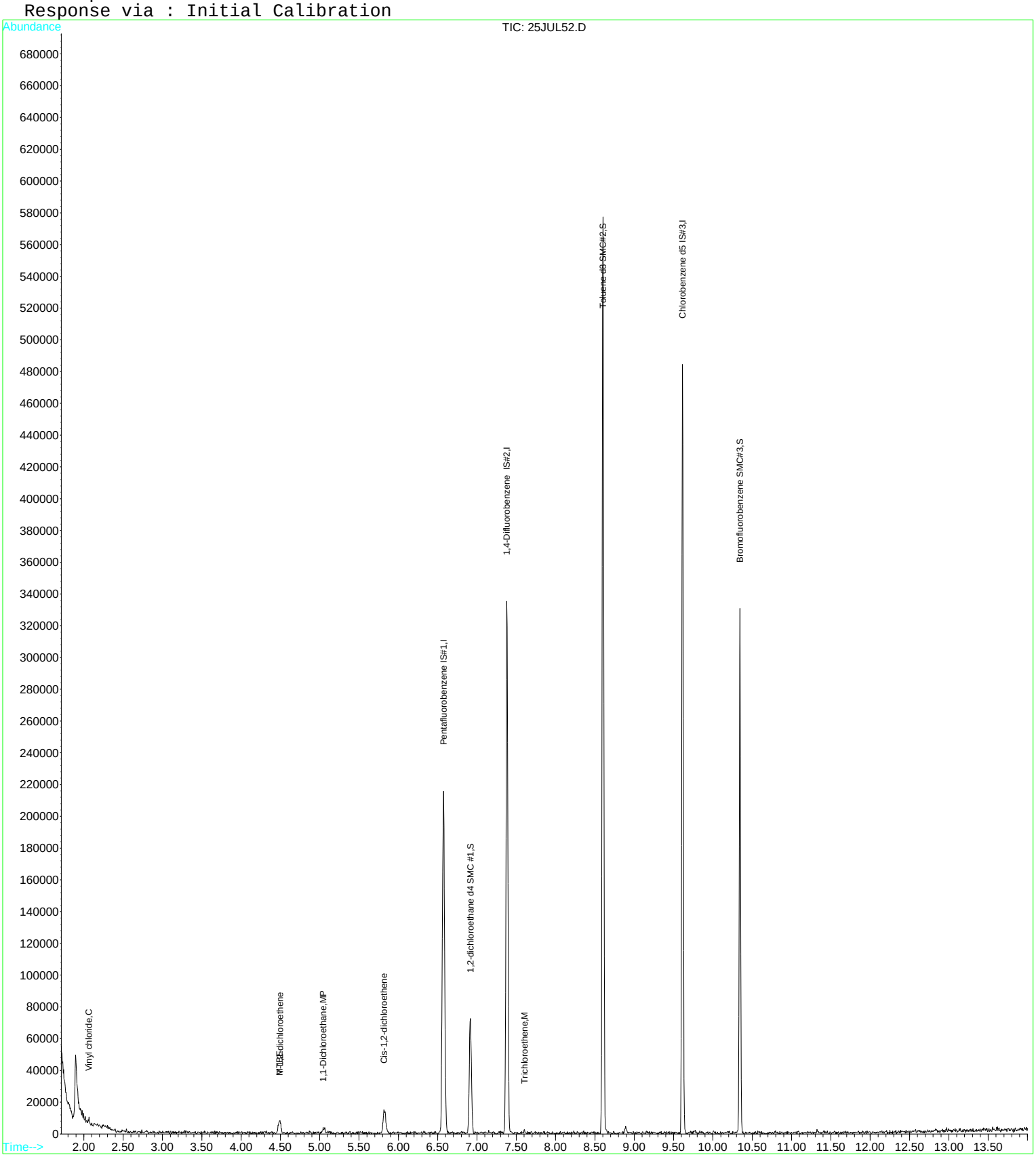
Target Compounds						Qvalue
4) Vinyl chloride	2.07	62	1580	0.13	ug/L #	1
11) MTBE	4.48	73	5609	0.56	ug/L #	71
12) T-1,2-dichloroethene	4.50	96	1825	0.22	ug/L #	2
13) 1,1-Dichloroethane	5.04	63	4537	0.25	ug/L	91
15) Cis-1,2-dichloroethene	5.82	96	7604	0.87	ug/L	96
25) Trichloroethene	7.60	130	718	0.08	ug/L #	38

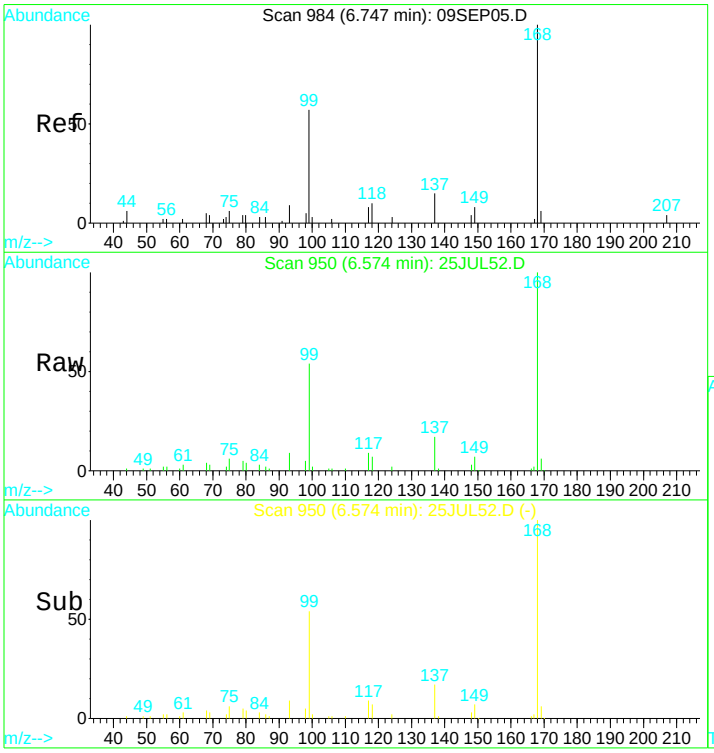
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL52.D Vial: 52
Acq On : 26 Jul 2017 1:13 am Operator: MGC
Sample : 1720121-06 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:55 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

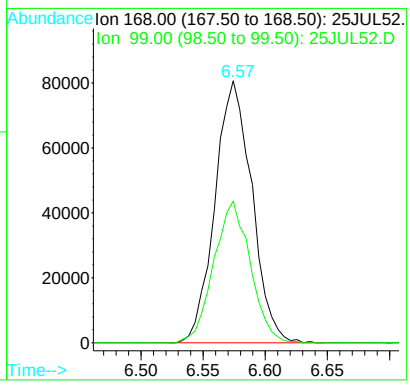


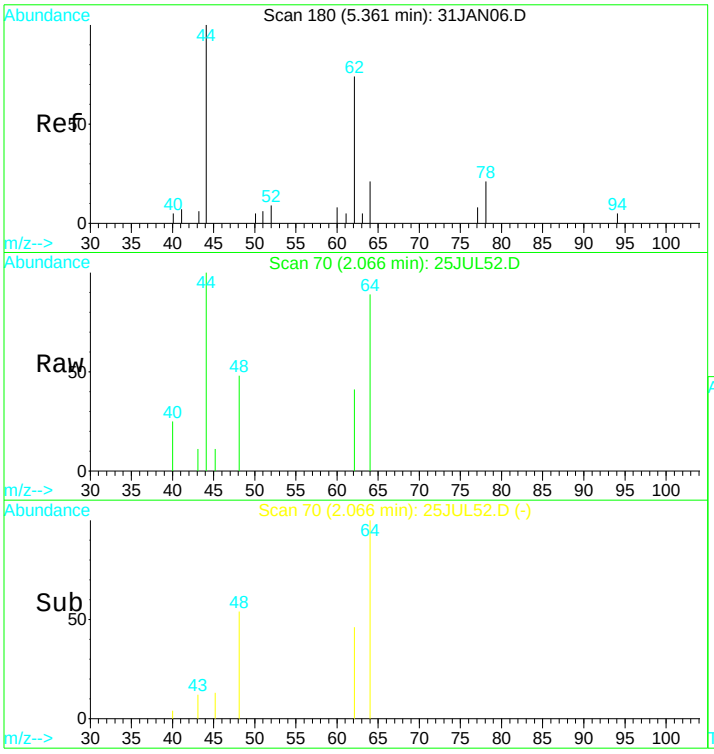


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 25JUL52.D
Acq: 26 Jul 2017 1:13 am

Tgt Ion:168 Resp: 166659

Ion	Ratio	Lower	Upper
168	100		
99	53.4	38.7	71.9

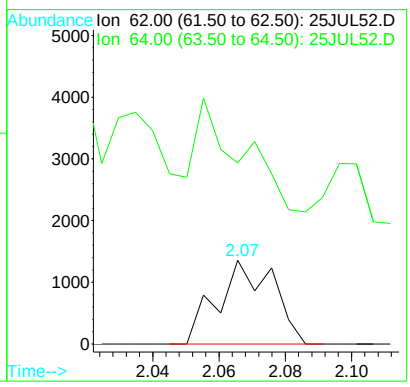


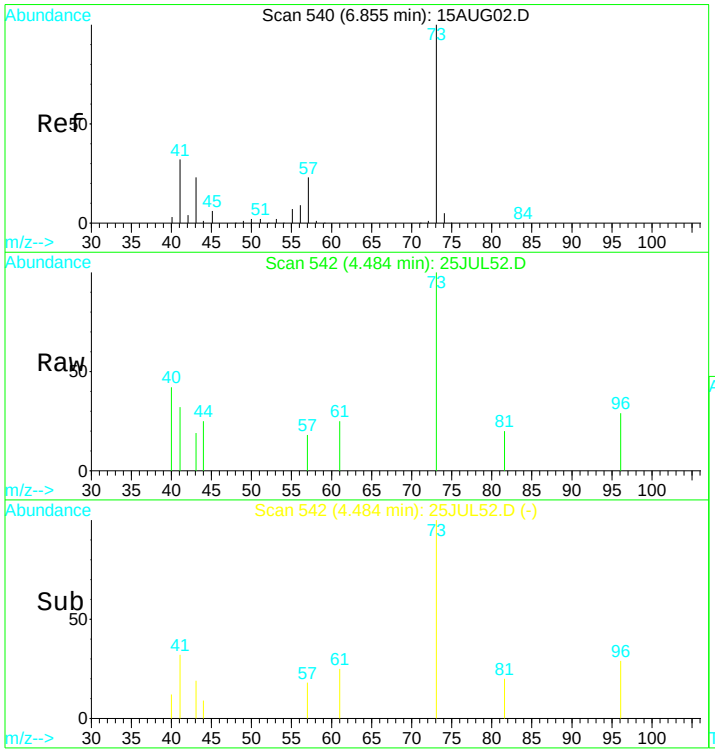


#4
Vinyl chloride
Concen: 0.13 ug/L
RT: 2.07 min Scan# 70
Delta R.T. -0.01 min
Lab File: 25JUL52.D
Acq: 26 Jul 2017 1:13 am

Tgt Ion: 62 Resp: 1580

Ion	Ratio	Lower	Upper
62	100		
64	323.1	39.3	72.9#

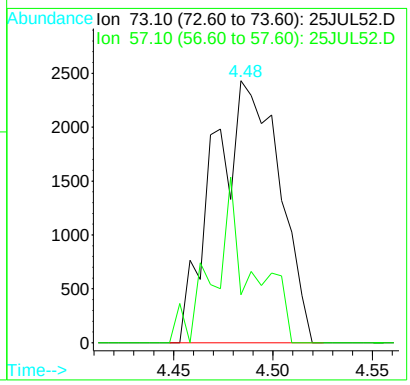


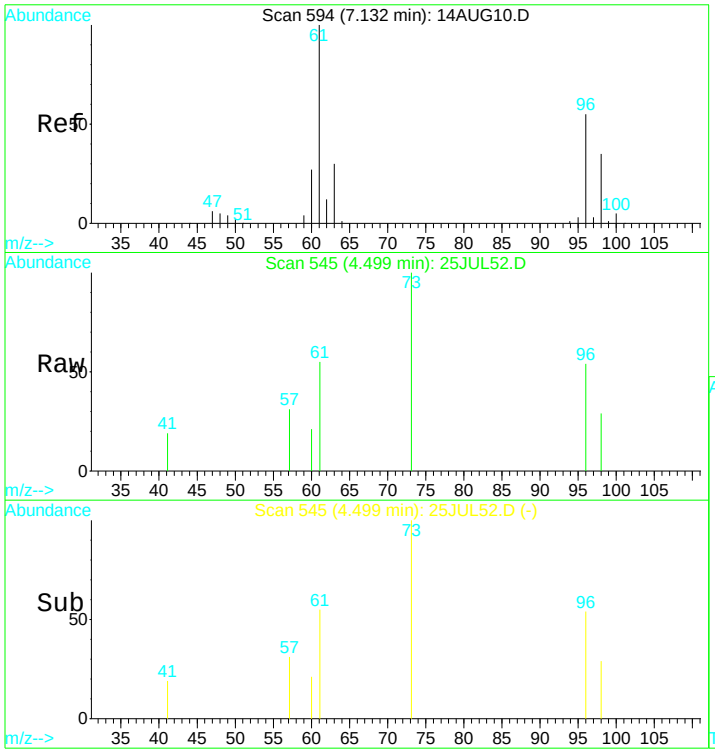


#11
MTBE
Concen: 0.56 ug/L
RT: 4.48 min Scan# 542
Delta R.T. 0.00 min
Lab File: 25JUL52.D
Acq: 26 Jul 2017 1:13 am

Tgt Ion: 73 Resp: 5609

Ion	Ratio	Lower	Upper
73	100		
57	36.1	15.5	28.7#

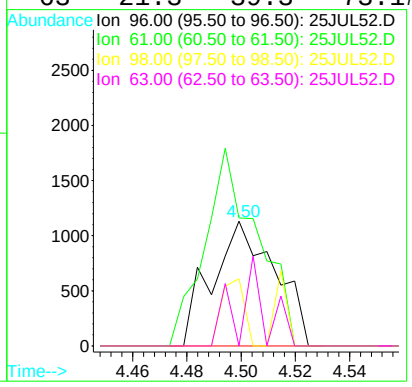


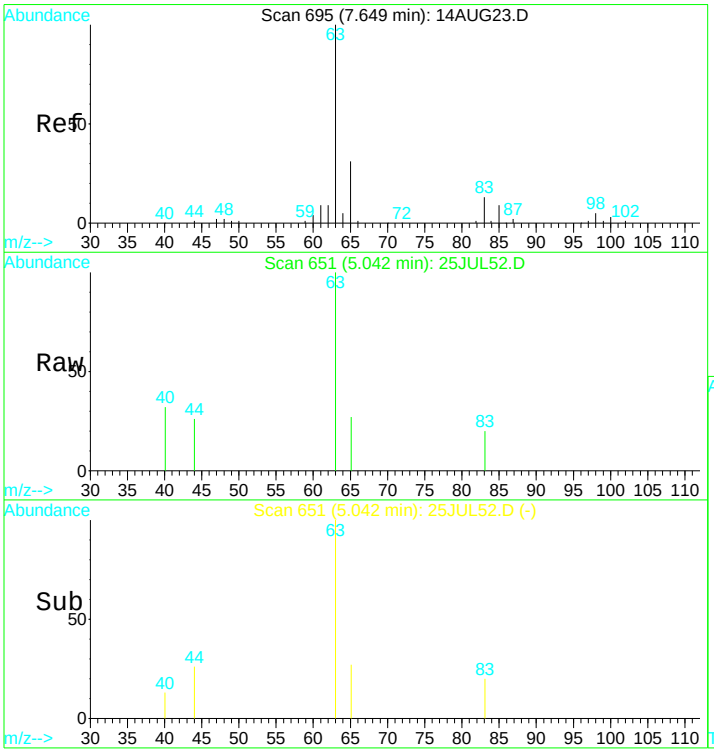


#12
T-1,2-dichloroethene
Concen: 0.22 ug/L
RT: 4.50 min Scan# 545
Delta R.T. -0.00 min
Lab File: 25JUL52.D
Acq: 26 Jul 2017 1:13 am

Tgt Ion: 96 Resp: 1825

Ion	Ratio	Lower	Upper
96	100		
61	0.0	129.4	240.4#
98	19.4	41.5	77.1#
63	21.3	39.3	73.1#

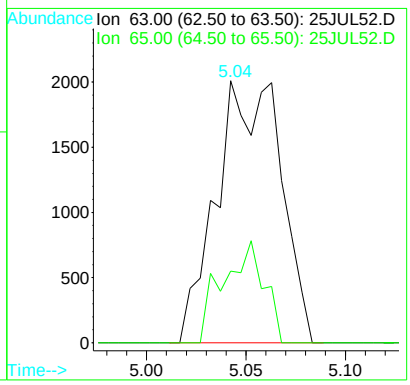


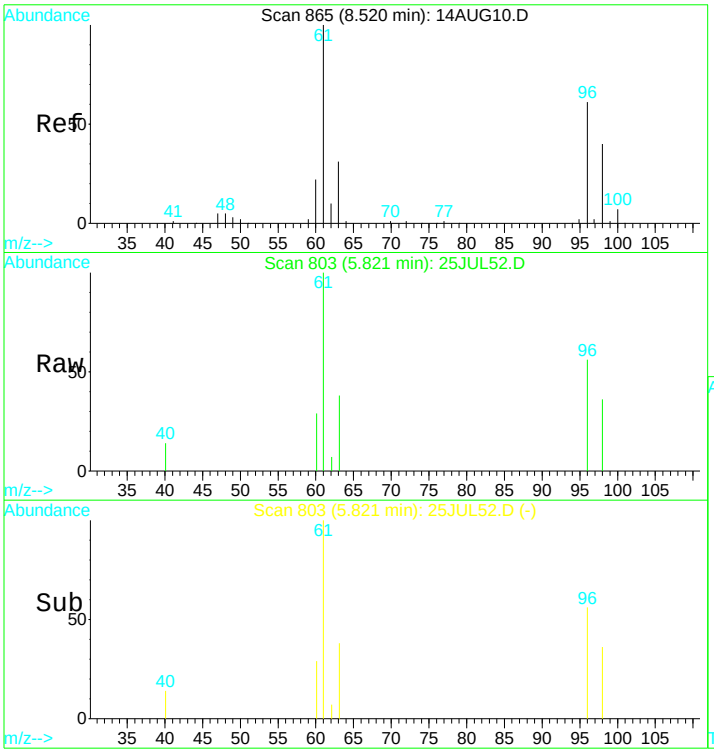


#13
1,1-Dichloroethane
Concen: 0.25 ug/L
RT: 5.04 min Scan# 651
Delta R.T. -0.01 min
Lab File: 25JUL52.D
Acq: 26 Jul 2017 1:13 am

Tgt Ion: 63 Resp: 4537

Ion	Ratio	Lower	Upper
63	100		
65	24.7	20.8	38.6

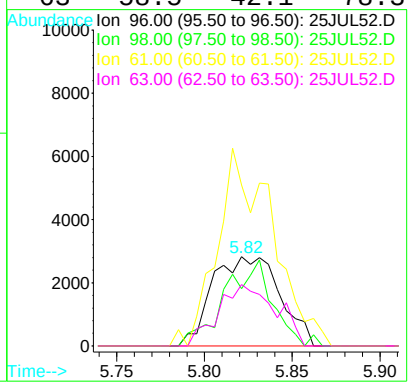


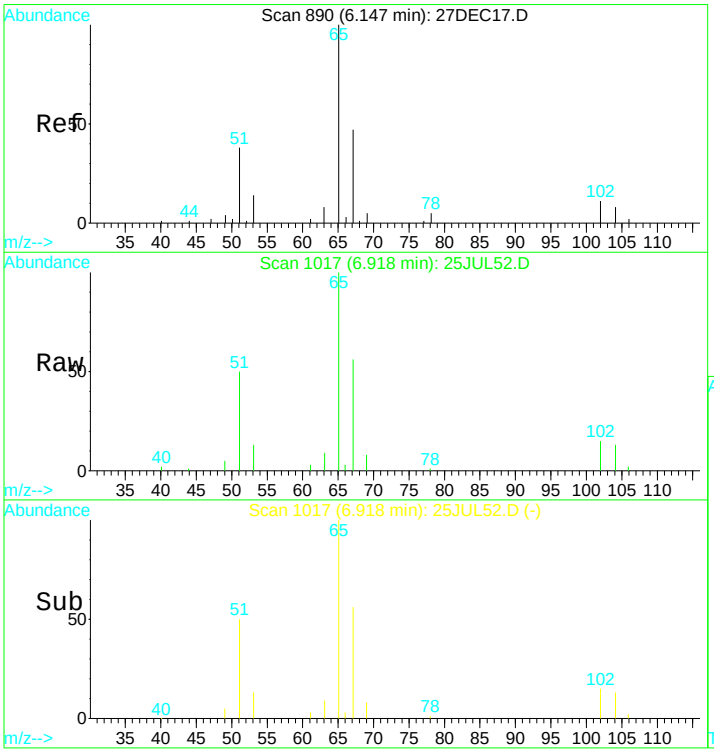


#15
Cis-1,2-dichloroethene
Concen: 0.87 ug/L
RT: 5.82 min Scan# 803
Delta R.T. -0.00 min
Lab File: 25JUL52.D
Acq: 26 Jul 2017 1:13 am

Tgt Ion: 96 Resp: 7604

Ion	Ratio	Lower	Upper
96	100		
98	68.7	51.9	96.3
61	180.5	122.8	228.0
63	58.5	42.1	78.3

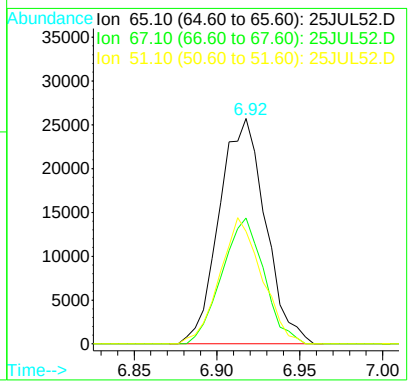


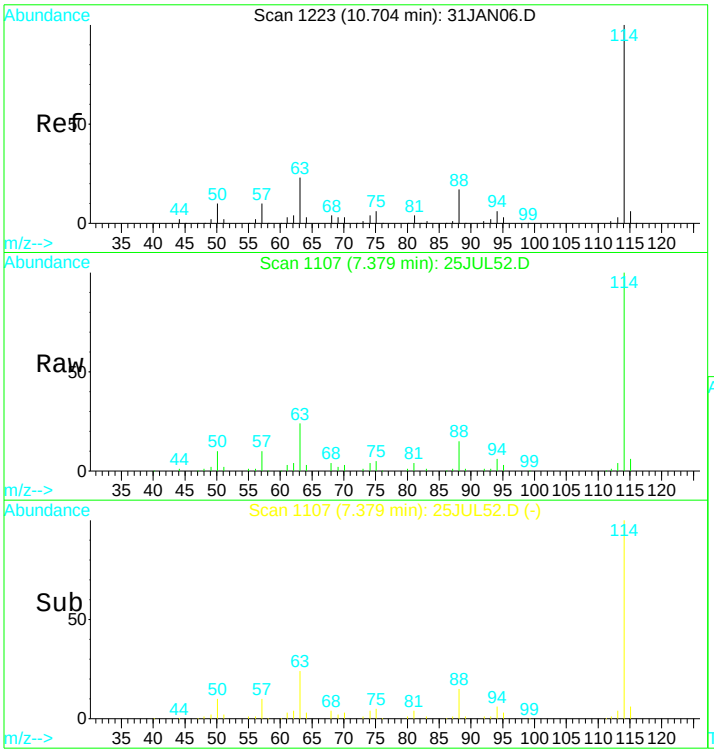


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1017
Delta R.T. 0.00 min
Lab File: 25JUL52.D
Acq: 26 Jul 2017 1:13 am

Tgt Ion: 65 Resp: 49792

Ion	Ratio	Lower	Upper
65	100		
67	50.9	36.2	67.2
51	51.0	42.0	78.0

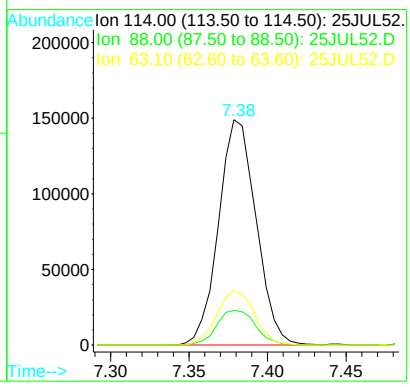


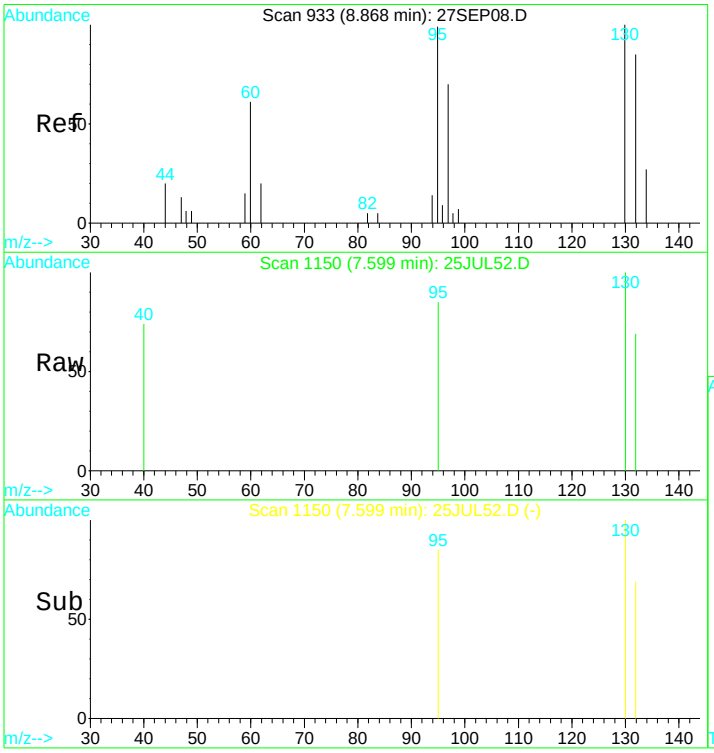


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1107
Delta R.T. -0.00 min
Lab File: 25JUL52.D
Acq: 26 Jul 2017 1:13 am

Tgt Ion:114 Resp: 247952

Ion	Ratio	Lower	Upper
114	100		
88	16.0	11.7	21.7
63	24.3	16.7	30.9

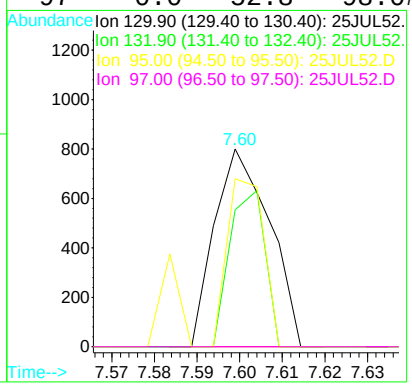


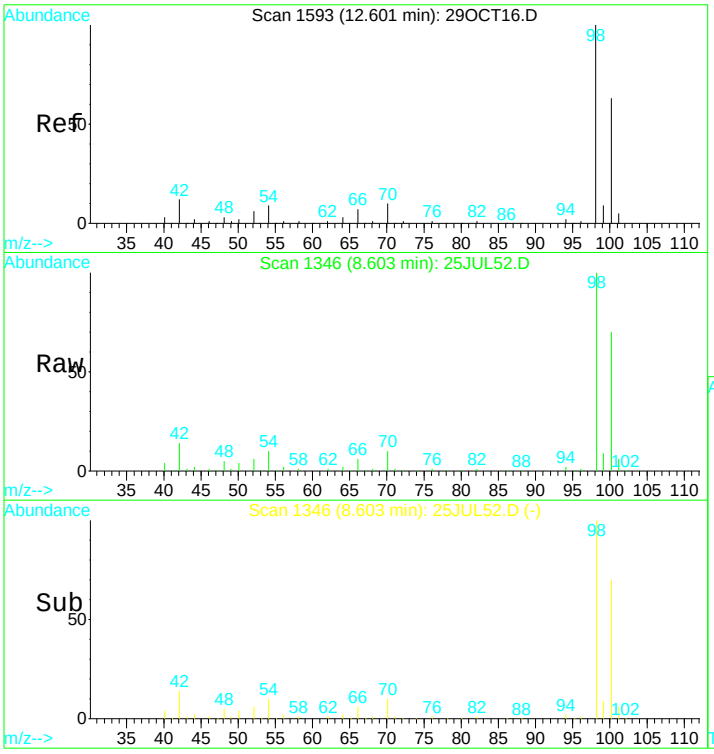


#25
Trichloroethene
Concen: 0.08 ug/L
RT: 7.60 min Scan# 1150
Delta R.T. 0.00 min
Lab File: 25JUL52.D
Acq: 26 Jul 2017 1:13 am

Tgt Ion:130 Resp: 718

Ion	Ratio	Lower	Upper
130	100		
132	50.8	66.1	122.7#
95	56.8	86.1	159.9#
97	0.0	52.8	98.0#

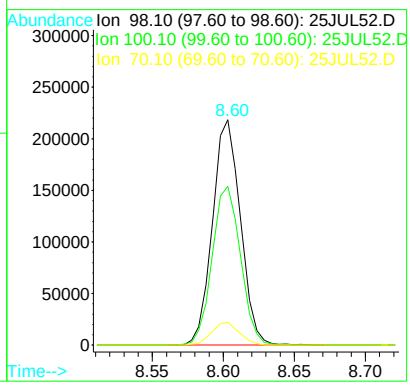


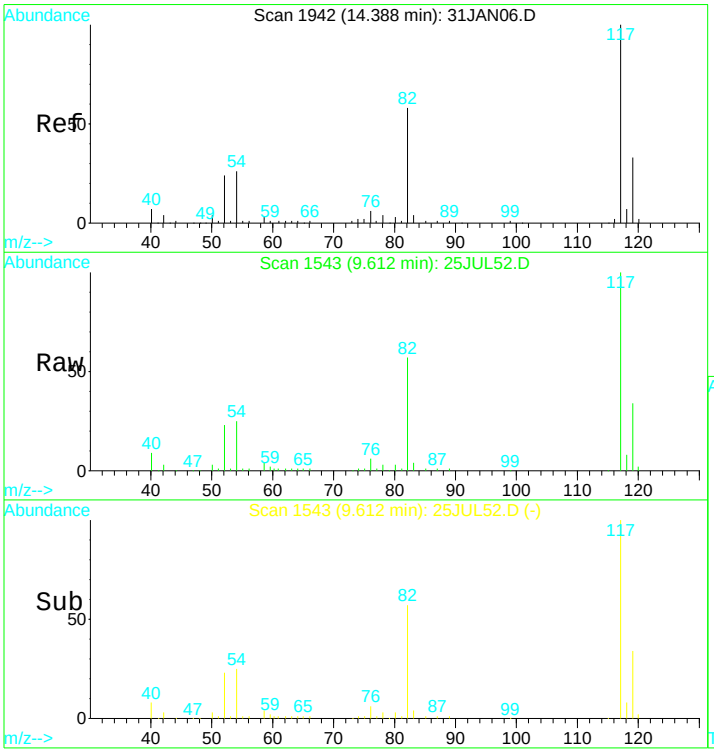


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 25JUL52.D
Acq: 26 Jul 2017 1:13 am

Tgt Ion: 98 Resp: 299044

Ion	Ratio	Lower	Upper
98	100		
100	71.4	49.7	92.3
70	10.1	7.3	13.7

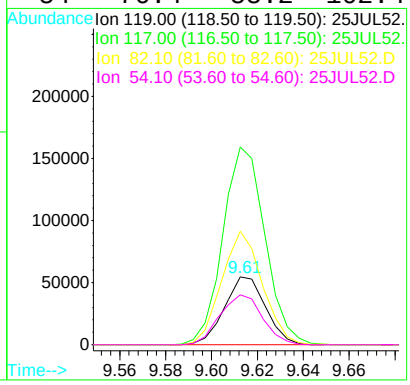


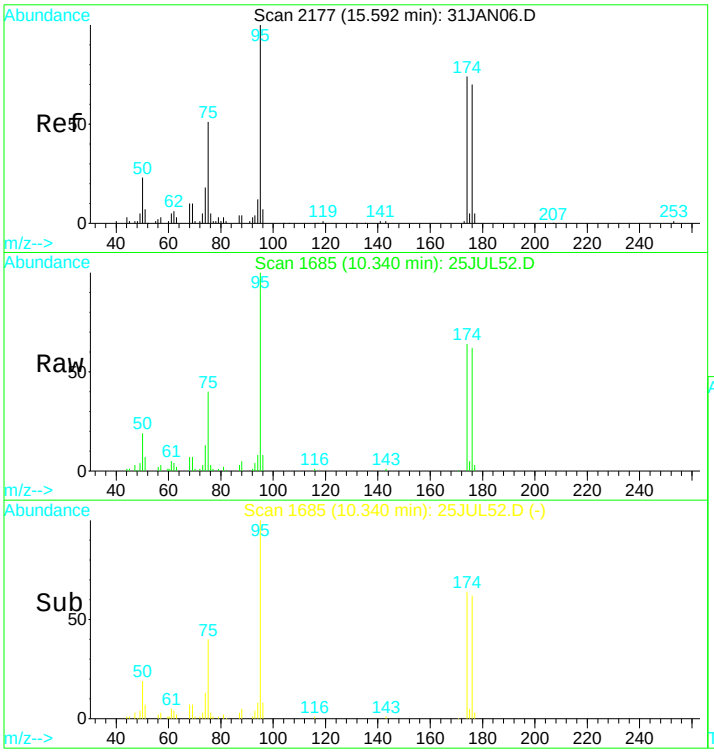


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.61 min Scan# 1543
Delta R.T. -0.00 min
Lab File: 25JUL52.D
Acq: 26 Jul 2017 1:13 am

Tgt Ion:119 Resp: 68139

Ion	Ratio	Lower	Upper
119	100		
117	298.8	214.5	398.4
82	165.3	117.7	218.7
54	76.4	55.2	102.4

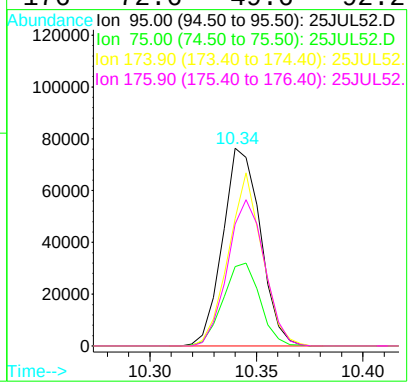




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1685
Delta R.T. -0.00 min
Lab File: 25JUL52.D
Acq: 26 Jul 2017 1:13 am

Tgt Ion: 95 Resp: 94219

Ion	Ratio	Lower	Upper
95	100		
75	41.0	29.5	54.7
174	78.3	52.3	97.1
176	72.6	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL52.D Vial: 52
Acq On : 26 Jul 2017 1:13 am Operator: MGC
Sample : 1720121-06 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:55 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	166659	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	247952	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	68139	10.00	ug/L	0.00

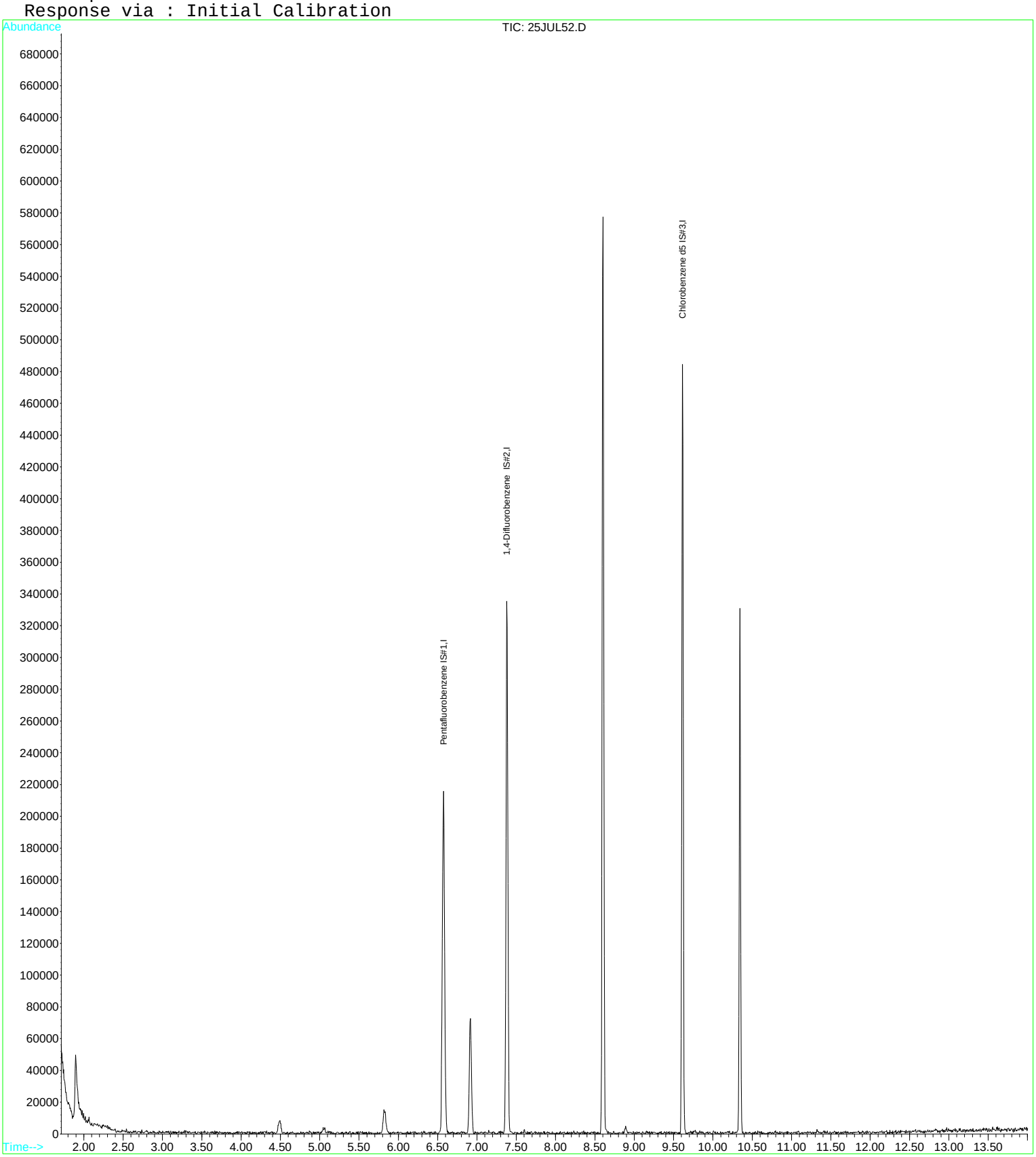
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL52.D Vial: 52
Acq On : 26 Jul 2017 1:13 am Operator: MGC
Sample : 1720121-06 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:55 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL53.D Vial: 53
Acq On : 26 Jul 2017 1:36 am Operator: MGC
Sample : 1720121-07 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:56 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	176838	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	262621	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	72374	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	54516	10.55	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 105.50%			
31) Toluene d8 SMC#2	8.60	98	324695	10.01	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.10%			
49) Bromofluorobenzene SMC#3	10.35	95	103910	9.62	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.20%			

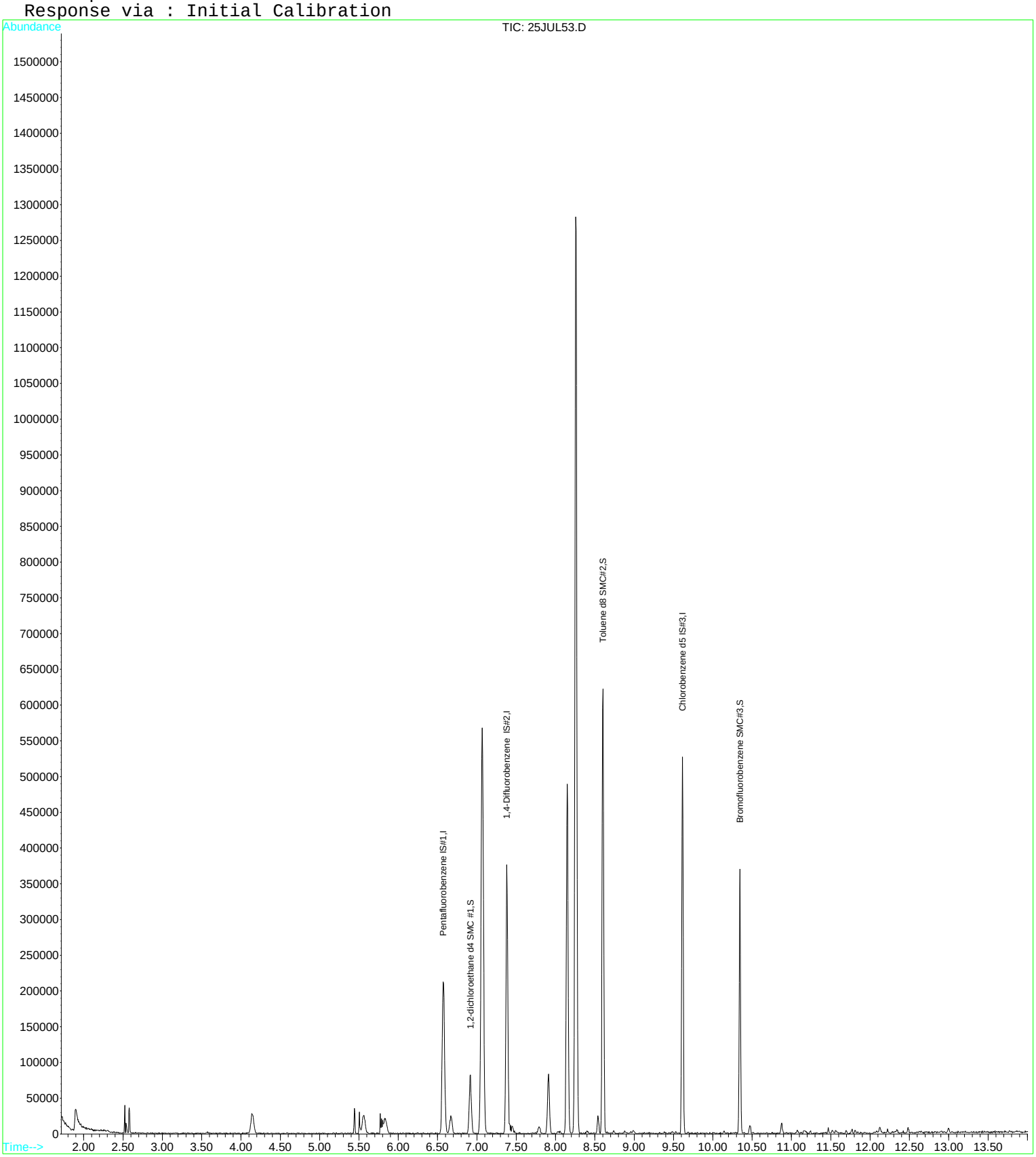
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL53.D Vial: 53
Acq On : 26 Jul 2017 1:36 am Operator: MGC
Sample : 1720121-07 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:56 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL53.D Vial: 53
Acq On : 26 Jul 2017 1:36 am Operator: MGC
Sample : 1720121-07 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:56 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	176838	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	262621	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	72374	10.00	ug/L	0.00

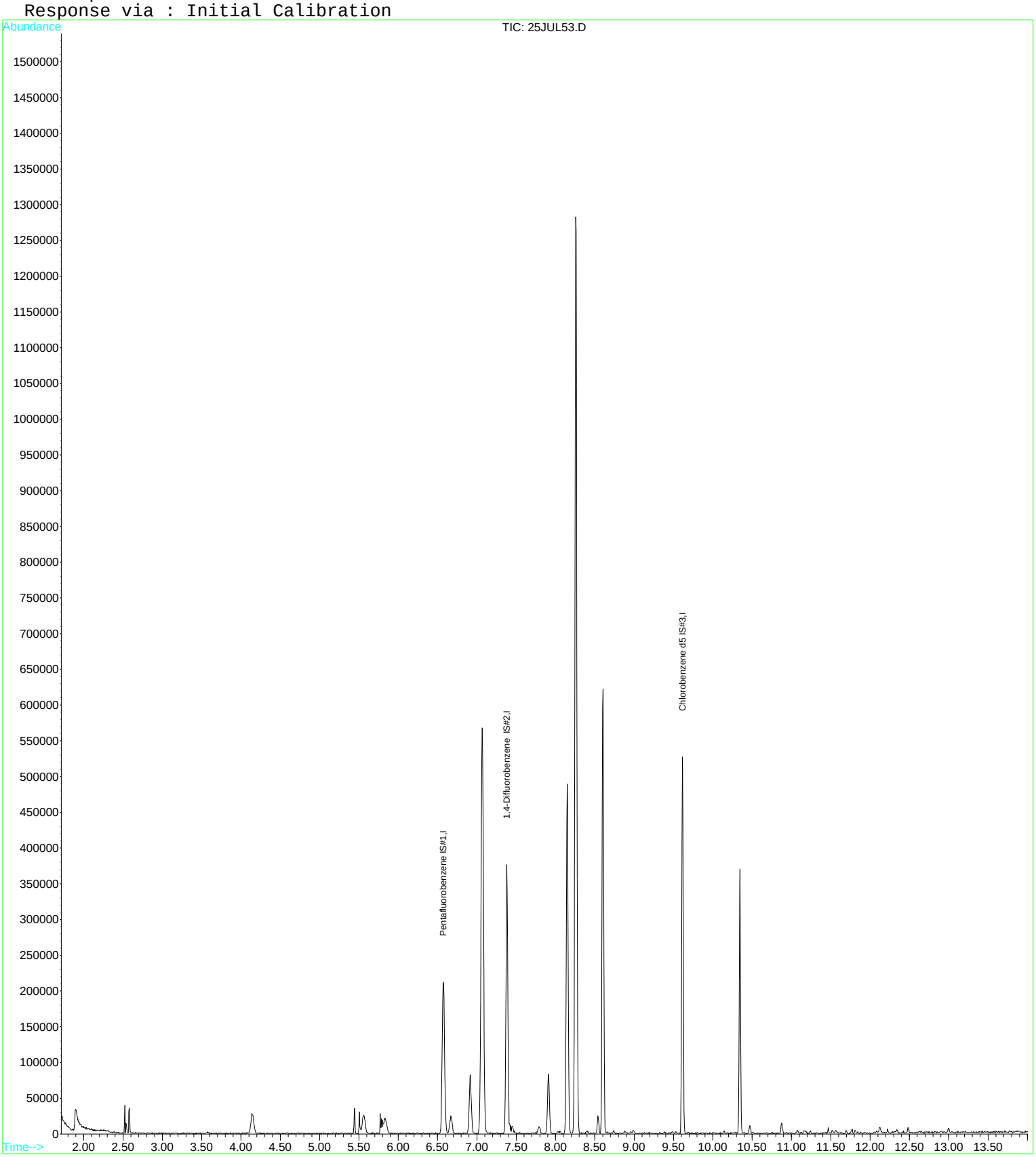
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL53.D Vial: 53
Acq On : 26 Jul 2017 1:36 am Operator: MGC
Sample : 1720121-07 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:56 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL54.D Vial: 54
Acq On : 26 Jul 2017 1:59 am Operator: MGC
Sample : 1720121-08 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:57 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	171091	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	260524	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	67292	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	53041	10.61	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 106.10%						
31) Toluene d8 SMC#2	8.60	98	309878	9.63	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 96.30%						
49) Bromofluorobenzene SMC#3	10.34	95	96742	9.63	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 96.30%						

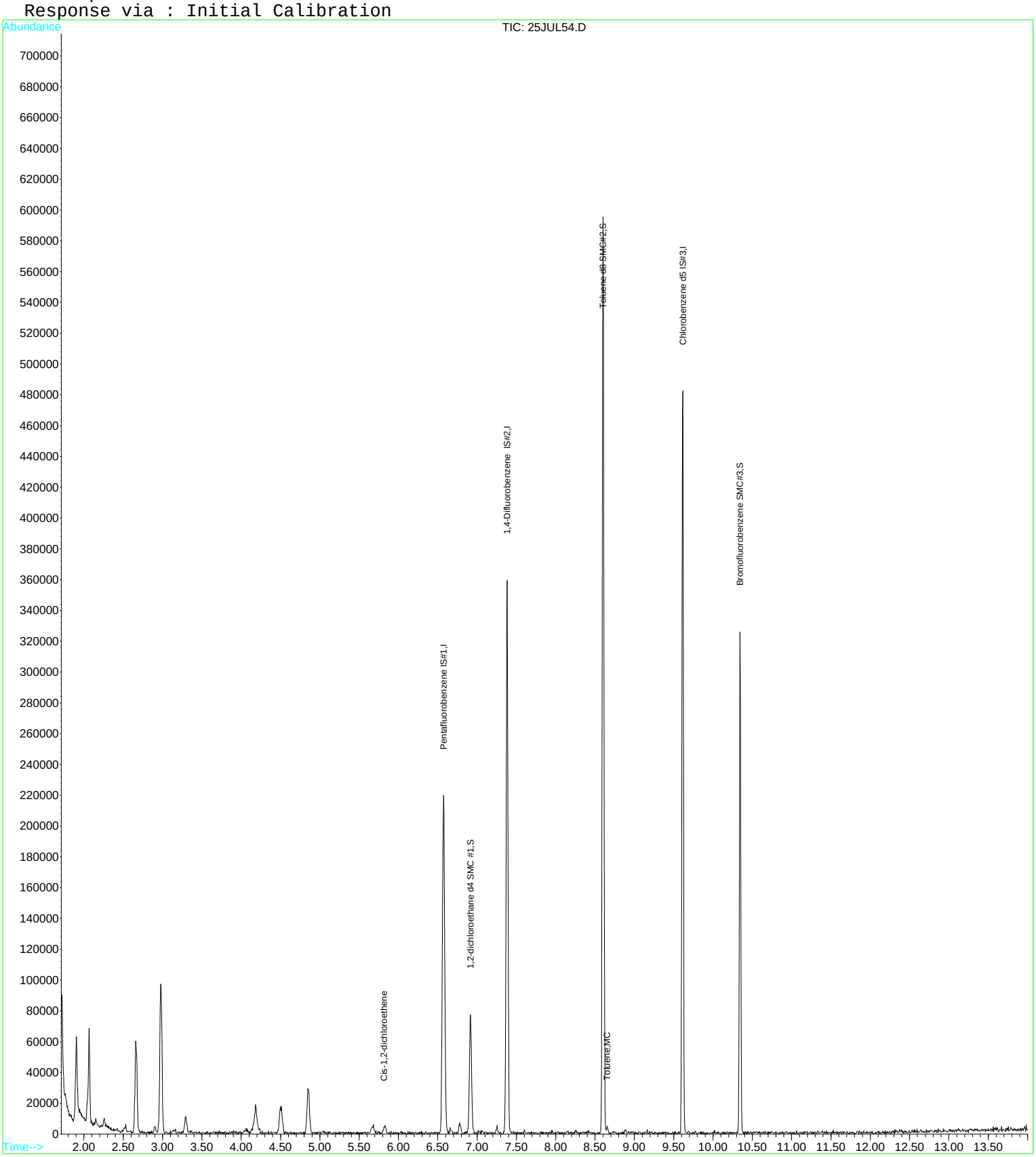
Target Compounds						Qvalue
15) Cis-1,2-dichloroethene	5.81	96	1998	0.22	ug/L #	1
32) Toluene	8.65	92	1569	0.07	ug/L #	91

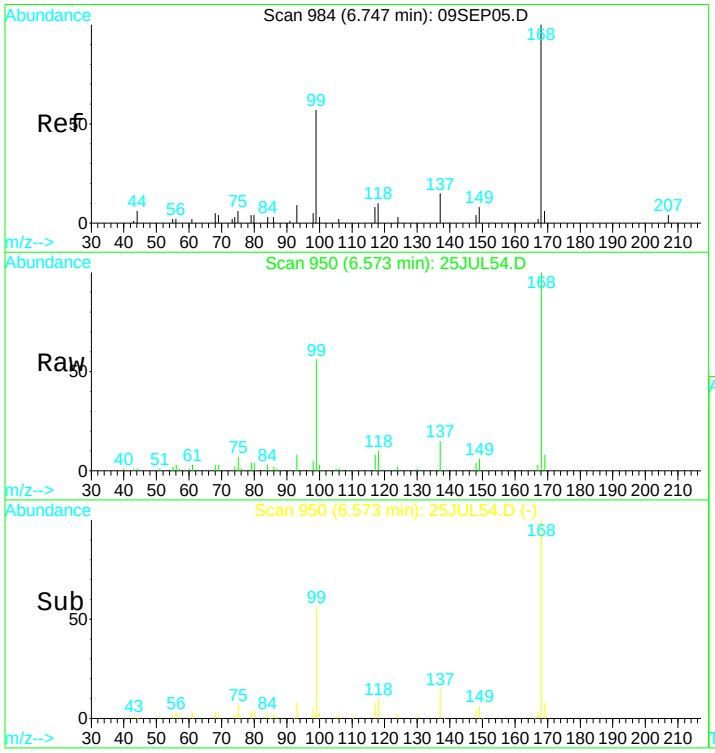
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL54.D Vial: 54
Acq On : 26 Jul 2017 1:59 am Operator: MGC
Sample : 1720121-08 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:57 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

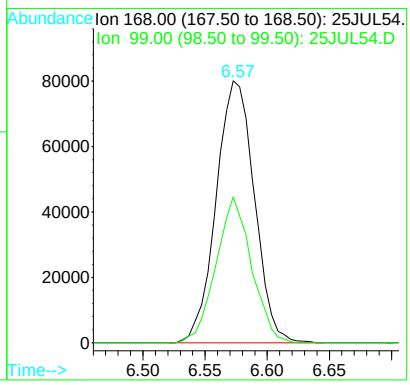


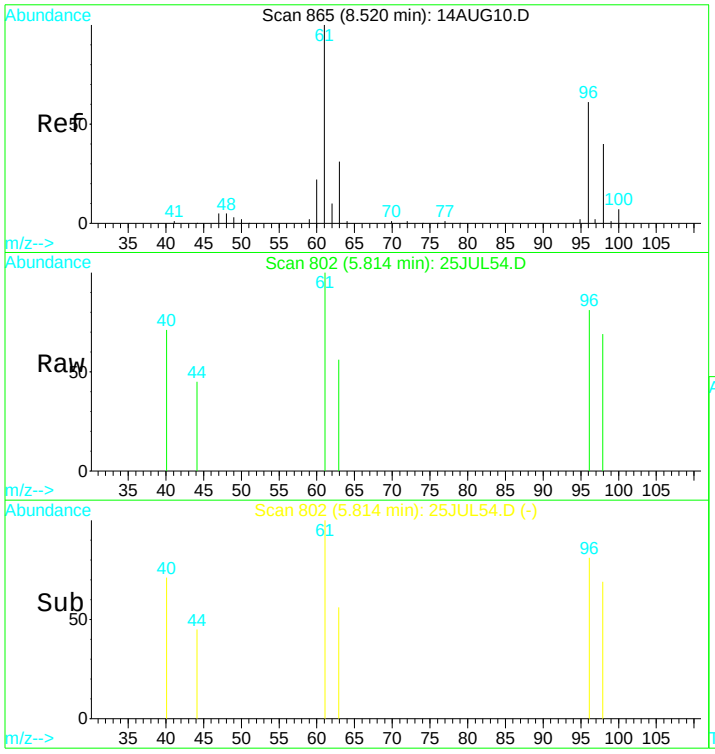


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 25JUL54.D
Acq: 26 Jul 2017 1:59 am

Tgt Ion:168 Resp: 171091

Ion	Ratio	Lower	Upper
168	100		
99	51.7	38.7	71.9

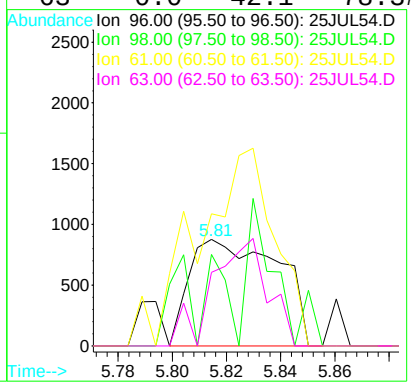


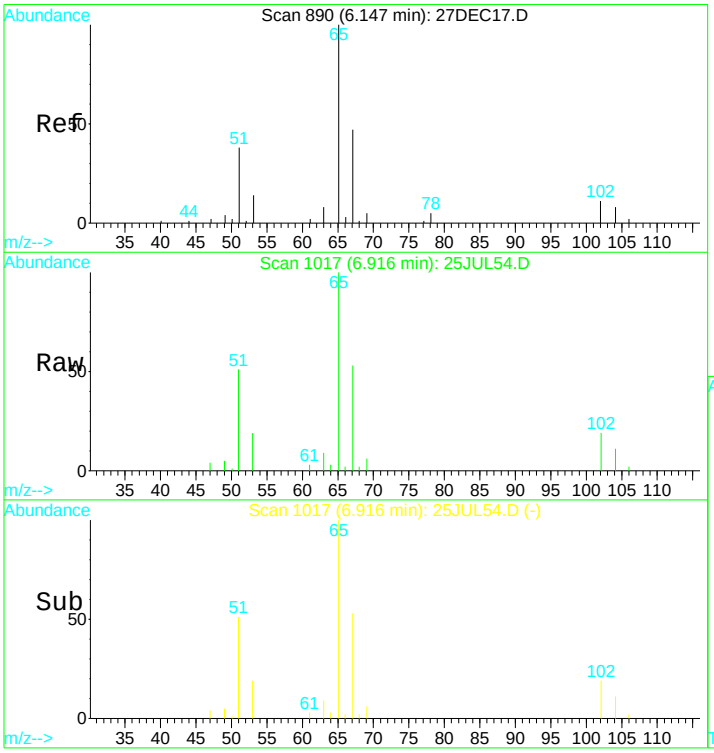


#15
Cis-1,2-dichloroethene
Concen: 0.22 ug/L
RT: 5.81 min Scan# 802
Delta R.T. -0.01 min
Lab File: 25JUL54.D
Acq: 26 Jul 2017 1:59 am

Tgt Ion: 96 Resp: 1998

Ion	Ratio	Lower	Upper
96	100		
98	19.9	51.9	96.3#
61	0.0	122.8	228.0#
63	0.0	42.1	78.3#

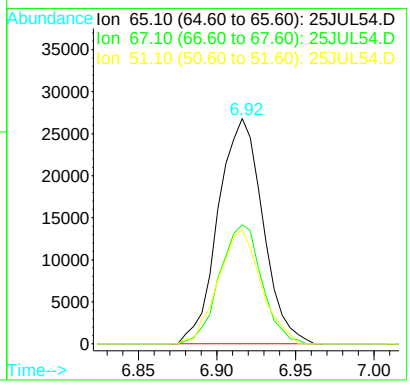


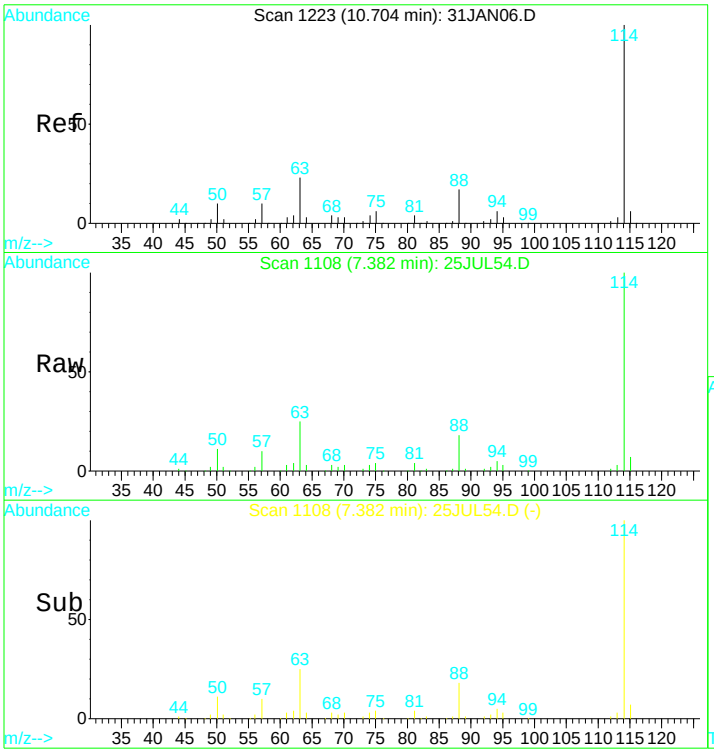


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1017
Delta R.T. 0.00 min
Lab File: 25JUL54.D
Acq: 26 Jul 2017 1:59 am

Tgt Ion: 65 Resp: 53041

Ion	Ratio	Lower	Upper
65	100		
67	49.8	36.2	67.2
51	48.4	42.0	78.0

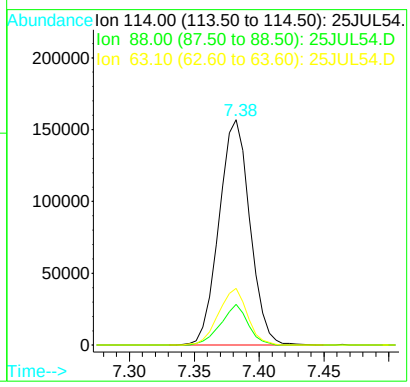


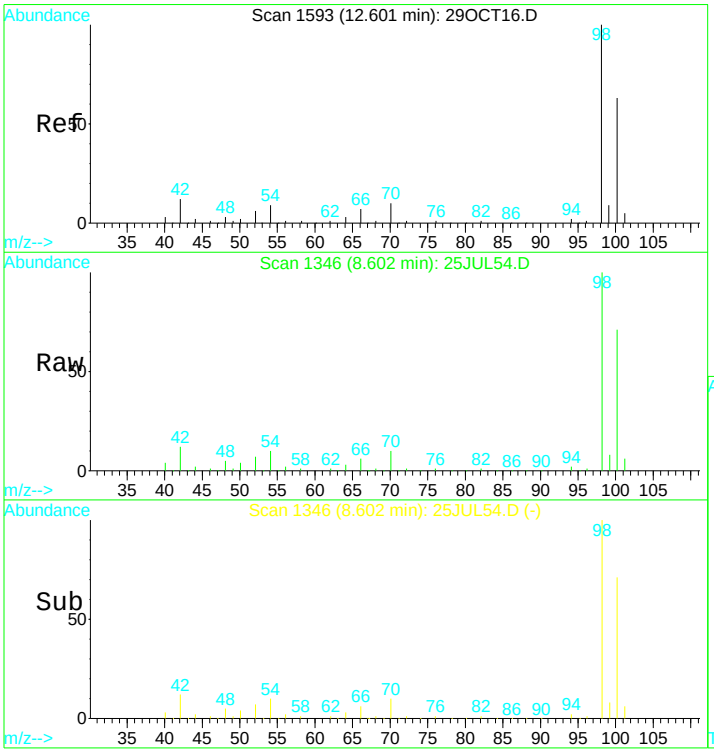


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 25JUL54.D
Acq: 26 Jul 2017 1:59 am

Tgt Ion:114 Resp: 260524

Ion	Ratio	Lower	Upper
114	100		
88	15.9	11.7	21.7
63	23.4	16.7	30.9

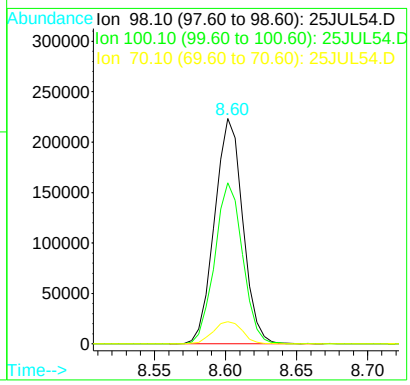


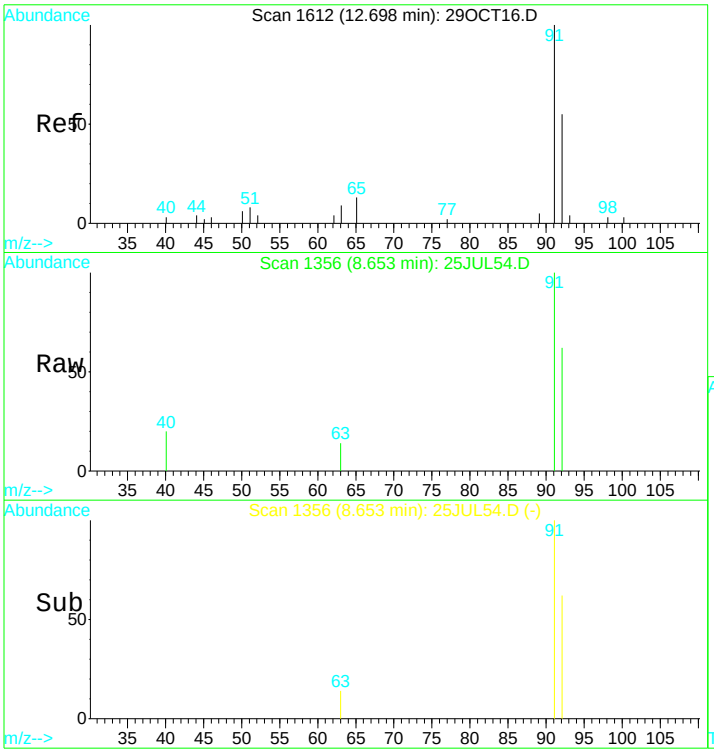


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 25JUL54.D
Acq: 26 Jul 2017 1:59 am

Tgt Ion: 98 Resp: 309878

Ion	Ratio	Lower	Upper
98	100		
100	70.4	49.7	92.3
70	10.3	7.3	13.7

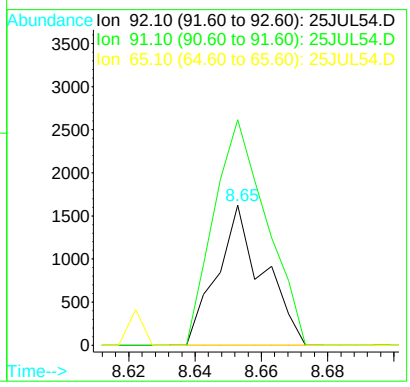


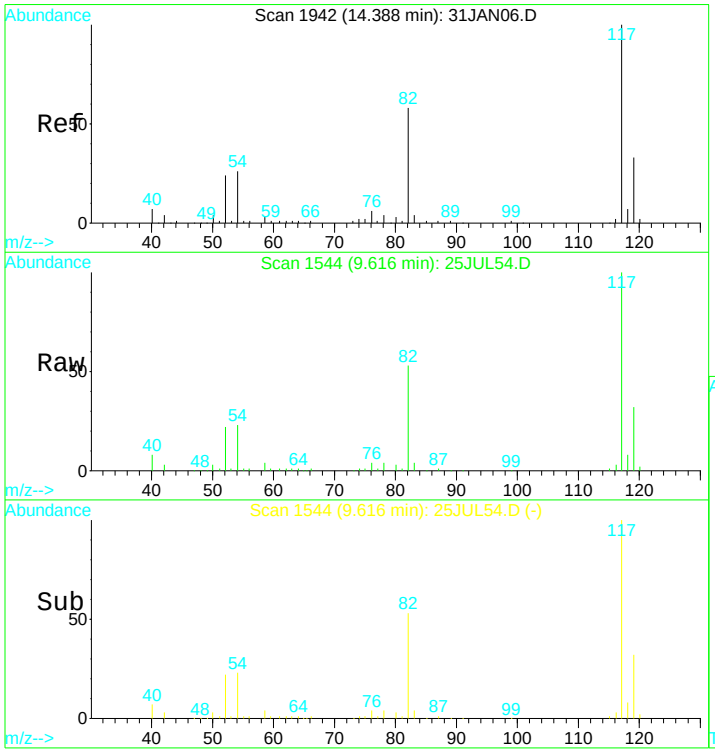


#32
Toluene
Concen: 0.07 ug/L
RT: 8.65 min Scan# 1356
Delta R.T. 0.00 min
Lab File: 25JUL54.D
Acq: 26 Jul 2017 1:59 am

Tgt Ion: 92 Resp: 1569

Ion	Ratio	Lower	Upper
92	100		
91	183.9	122.6	227.6
65	8.2	16.5	30.7#

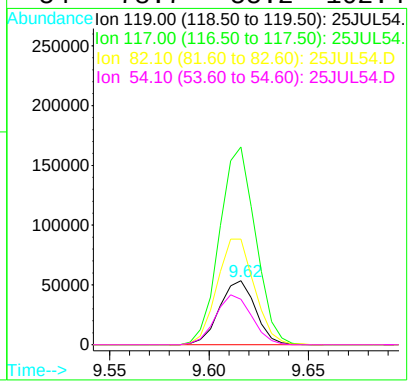


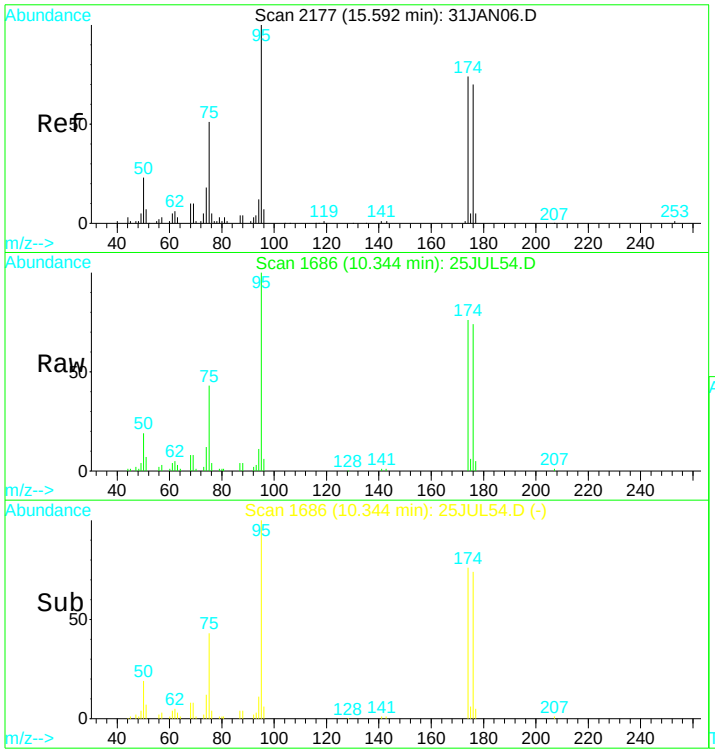


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 25JUL54.D
Acq: 26 Jul 2017 1:59 am

Tgt Ion:119 Resp: 67292

Ion	Ratio	Lower	Upper
119	100		
117	309.2	214.5	398.4
82	171.6	117.7	218.7
54	78.7	55.2	102.4

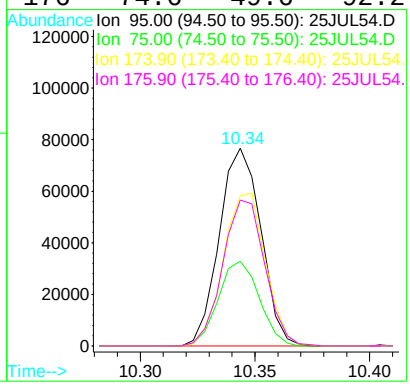




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 25JUL54.D
Acq: 26 Jul 2017 1:59 am

Tgt Ion: 95 Resp: 96742

Ion	Ratio	Lower	Upper
95	100		
75	42.2	29.5	54.7
174	78.3	52.3	97.1
176	74.6	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL54.D Vial: 54
Acq On : 26 Jul 2017 1:59 am Operator: MGC
Sample : 1720121-08 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:58 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	171091	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	260524	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	67292	10.00	ug/L	0.00

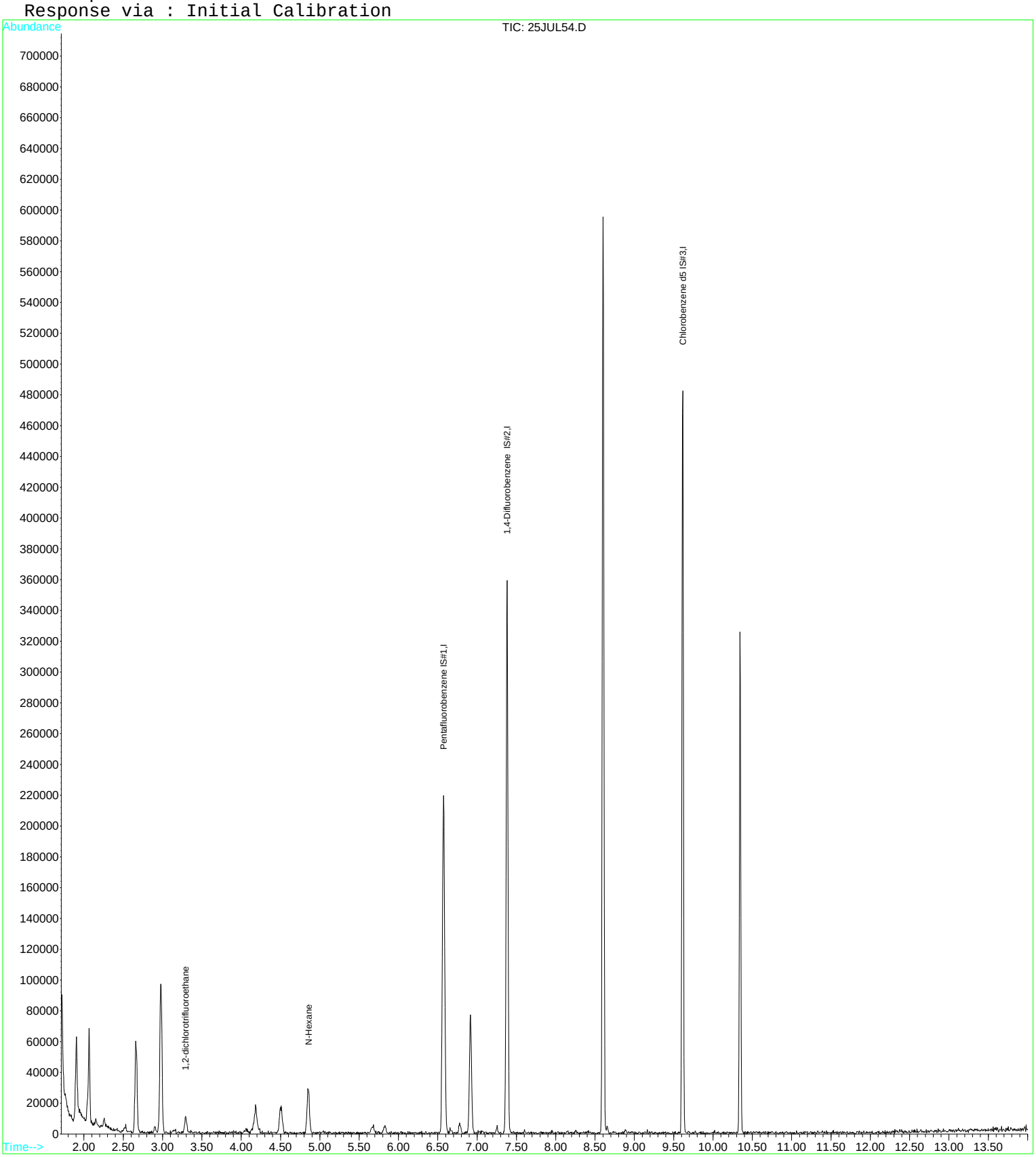
Target Compounds						Qvalue
4) 1,2-dichlorotrifluoroethan	3.29	67	5810	0.52	ug/L	81
16) N-Hexane	4.86	57	18106	1.65	ug/L	87

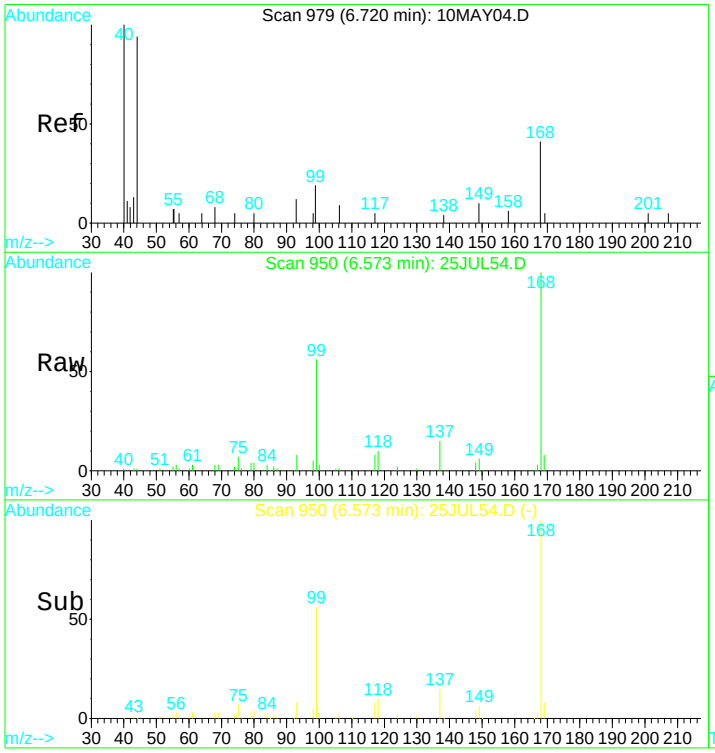
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL54.D Vial: 54
Acq On : 26 Jul 2017 1:59 am Operator: MGC
Sample : 1720121-08 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:58 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration

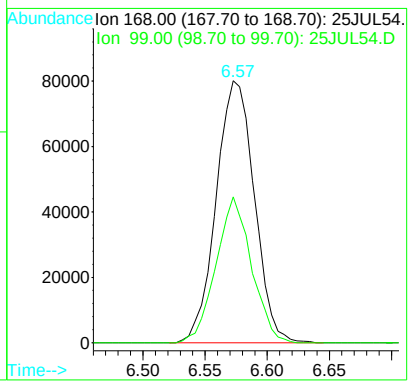


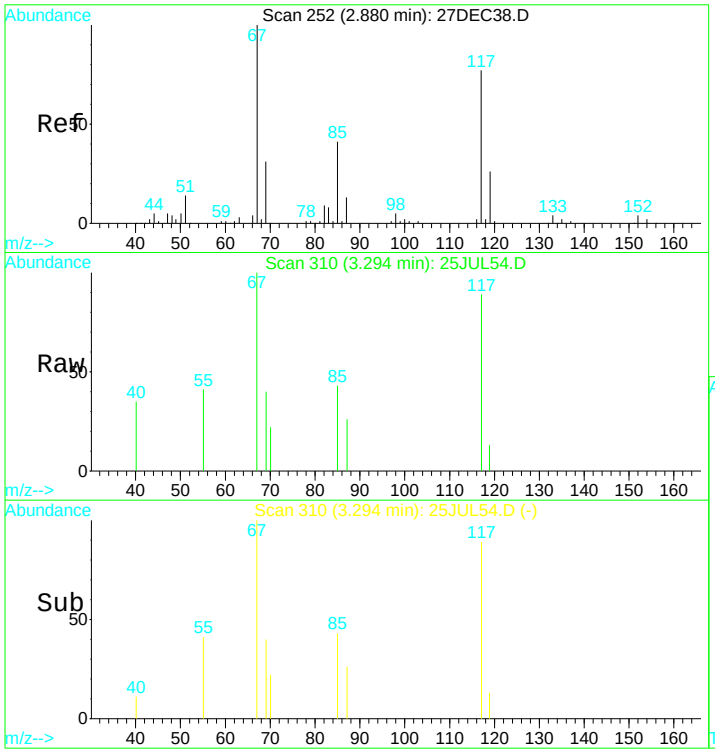


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 25JUL54.D
Acq: 26 Jul 2017 1:59 am

Tgt Ion:168 Resp: 171091

Ion	Ratio	Lower	Upper
168	100		
99	51.7	36.1	67.1

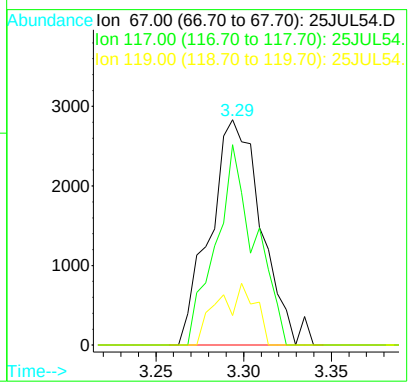


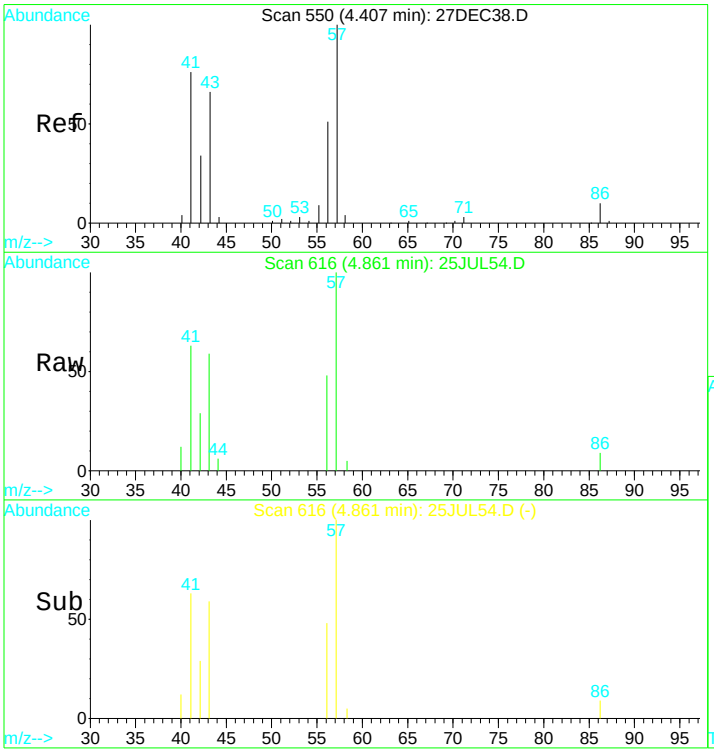


#4
1,2-dichlorotrifluoroethane
Concen: 0.52 ug/L
RT: 3.29 min Scan# 310
Delta R.T. -0.00 min
Lab File: 25JUL54.D
Acq: 26 Jul 2017 1:59 am

Tgt Ion: 67 Resp: 5810

Ion	Ratio	Lower	Upper
67	100		
117	67.5	36.7	68.1
119	9.7	5.9	10.9

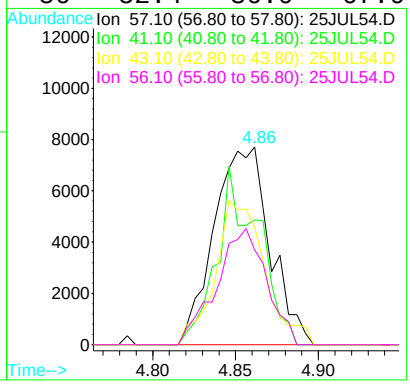


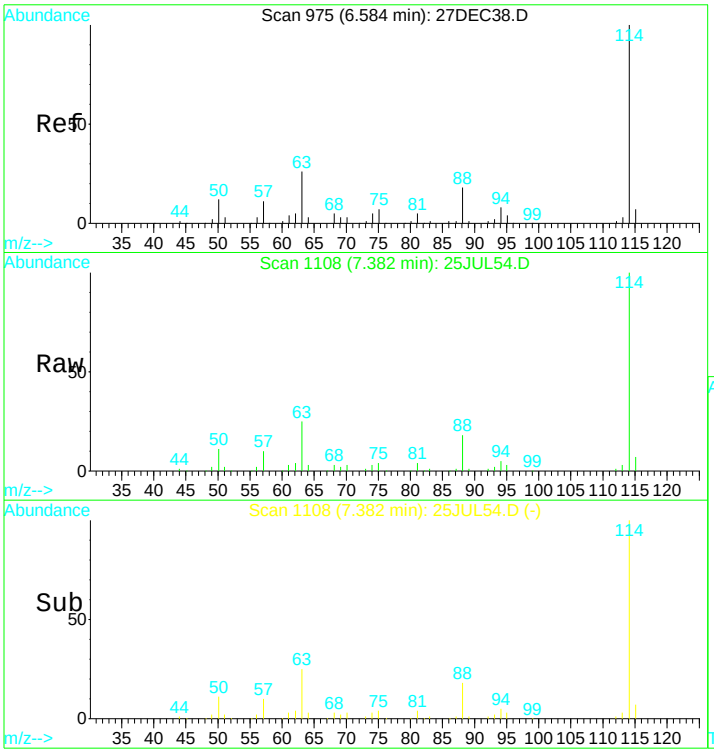


#16
N-Hexane
Concen: 1.65 ug/L
RT: 4.86 min Scan# 616
Delta R.T. 0.01 min
Lab File: 25JUL54.D
Acq: 26 Jul 2017 1:59 am

Tgt Ion: 57 Resp: 18106

Ion	Ratio	Lower	Upper
57	100		
41	66.9	58.2	108.2
43	64.2	54.3	100.8
56	52.4	36.0	67.0

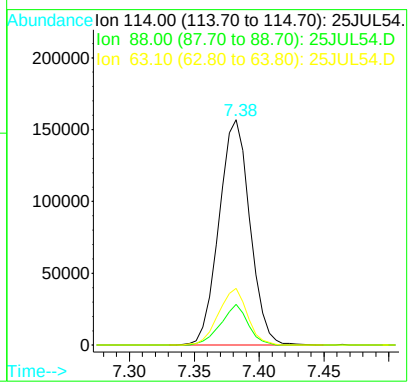


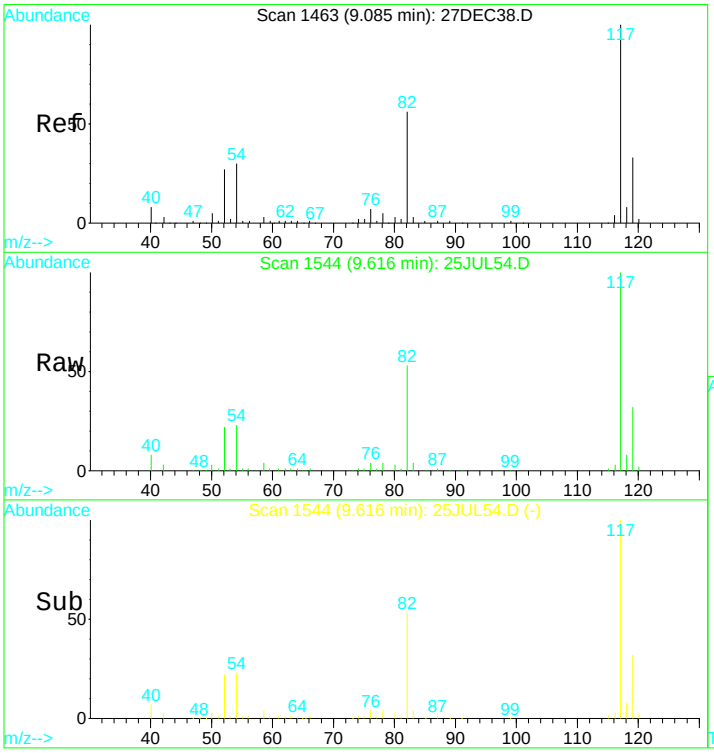


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 25JUL54.D
Acq: 26 Jul 2017 1:59 am

Tgt Ion:114 Resp: 260524

Ion	Ratio	Lower	Upper
114	100		
88	15.9	11.1	20.7
63	23.4	16.4	30.4

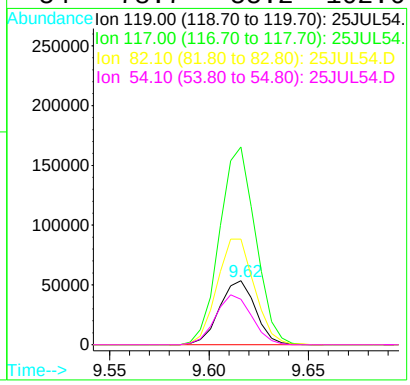




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 25JUL54.D
Acq: 26 Jul 2017 1:59 am

Tgt Ion:119 Resp: 67292

Ion	Ratio	Lower	Upper
119	100		
117	309.2	217.1	403.3
82	171.6	122.7	227.9
54	78.7	55.2	102.6



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL55.D Vial: 55
Acq On : 26 Jul 2017 2:22 am Operator: MGC
Sample : 1720121-09 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:59 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	166085	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	243804	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	63437	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	47633	9.82	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 98.20%			
31) Toluene d8 SMC#2	8.60	98	294840	9.79	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.90%			
49) Bromofluorobenzene SMC#3	10.34	95	95000	10.03	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.30%			

Target Compounds

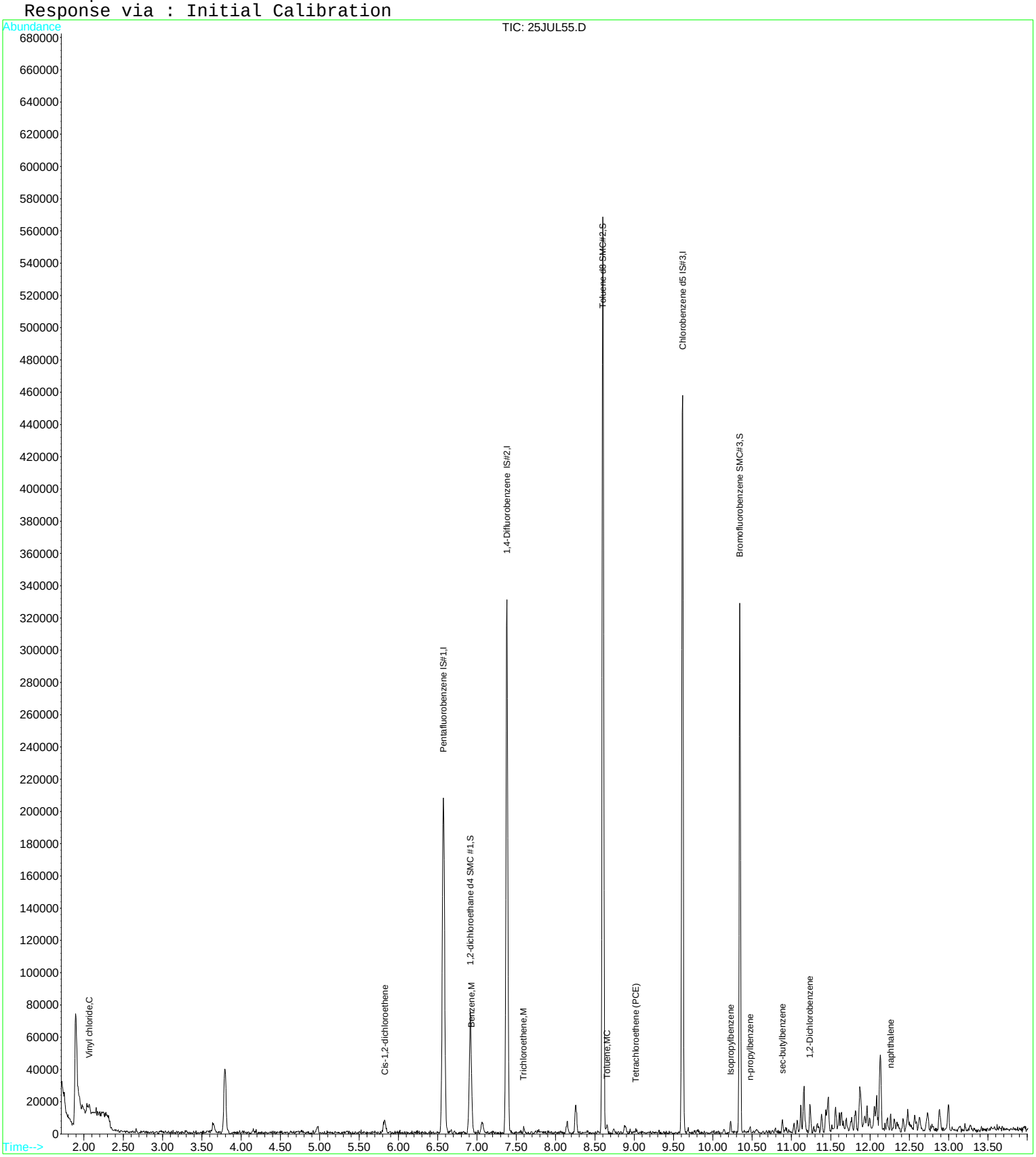
						Qvalue
4) Vinyl chloride	2.07	62	2961	0.24	ug/L #	23
15) Cis-1,2-dichloroethene	5.83	96	4279	0.49	ug/L	88
23) Benzene	6.94	78	3589	0.11	ug/L #	1
25) Trichloroethene	7.60	130	790	0.09	ug/L #	77
32) Toluene	8.65	92	1278	0.06	ug/L #	91
35) Tetrachloroethene (PCE)	9.03	166	695	0.09	ug/L #	69
47) Isopropylbenzene	10.23	105	4560	0.13	ug/L	90
51) n-propylbenzene	10.48	91	3386	0.07	ug/L	87
58) sec-butylbenzene	10.88	105	4839	0.12	ug/L	96
63) 1,2-Dichlorobenzene	11.24	146	1674	0.12	ug/L #	90
68) naphthalene	12.26	128	6344	0.64	ug/L	100

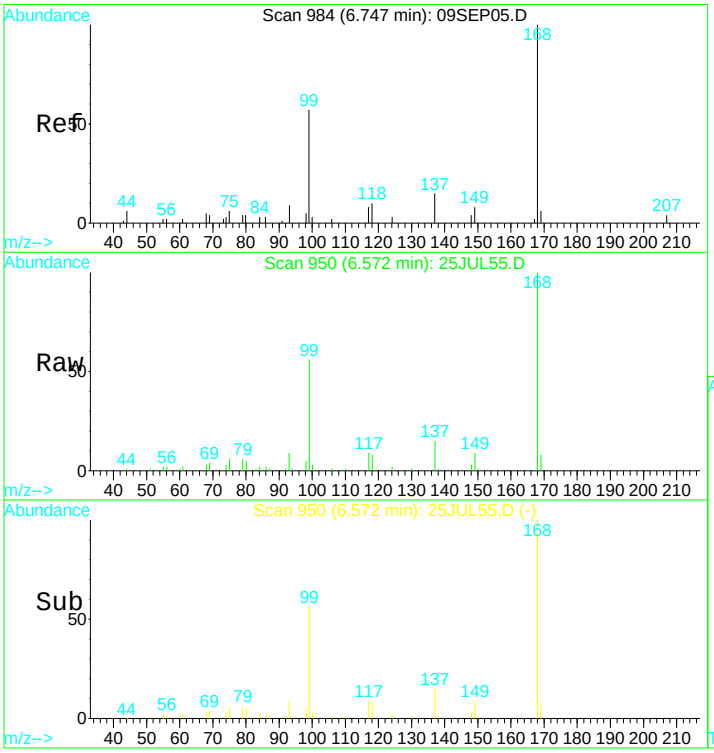
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL55.D Vial: 55
Acq On : 26 Jul 2017 2:22 am Operator: MGC
Sample : 1720121-09 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:59 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

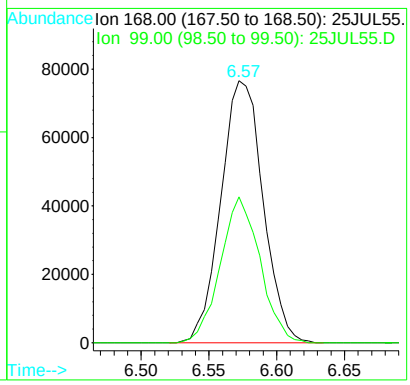


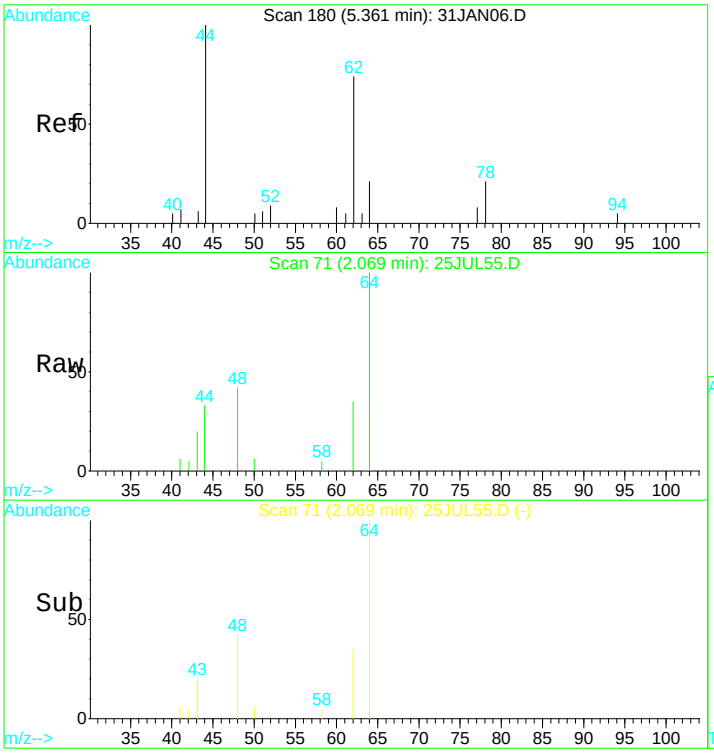


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion:168 Resp: 166085

Ion	Ratio	Lower	Upper
168	100		
99	52.2	38.7	71.9

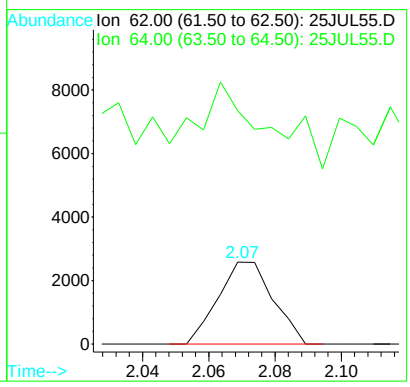


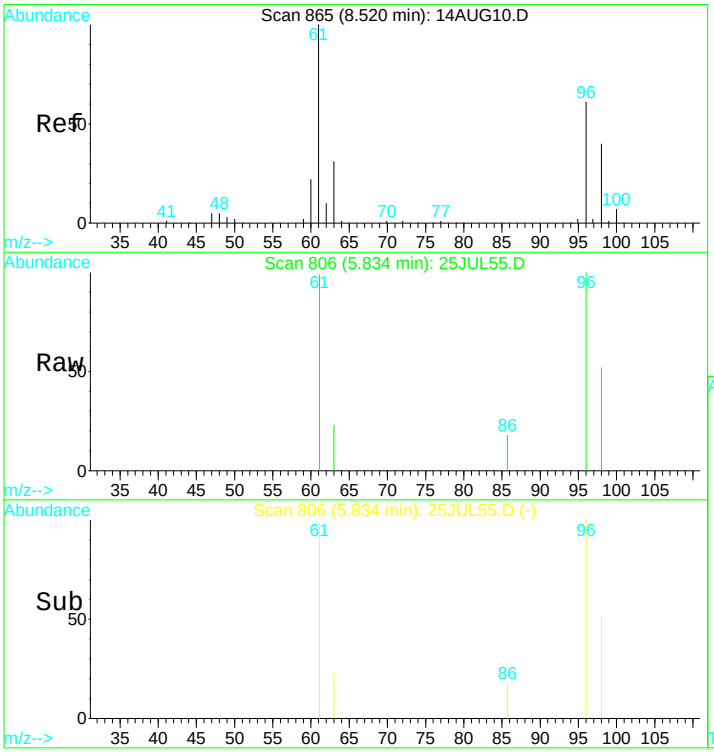


#4
Vinyl chloride
Concen: 0.24 ug/L
RT: 2.07 min Scan# 71
Delta R.T. -0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion: 62 Resp: 2961

Ion	Ratio	Lower	Upper
62	100		
64	0.0	39.3	72.9#

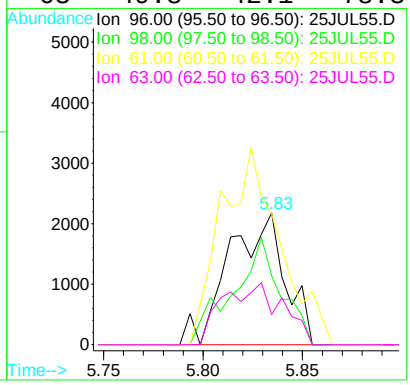


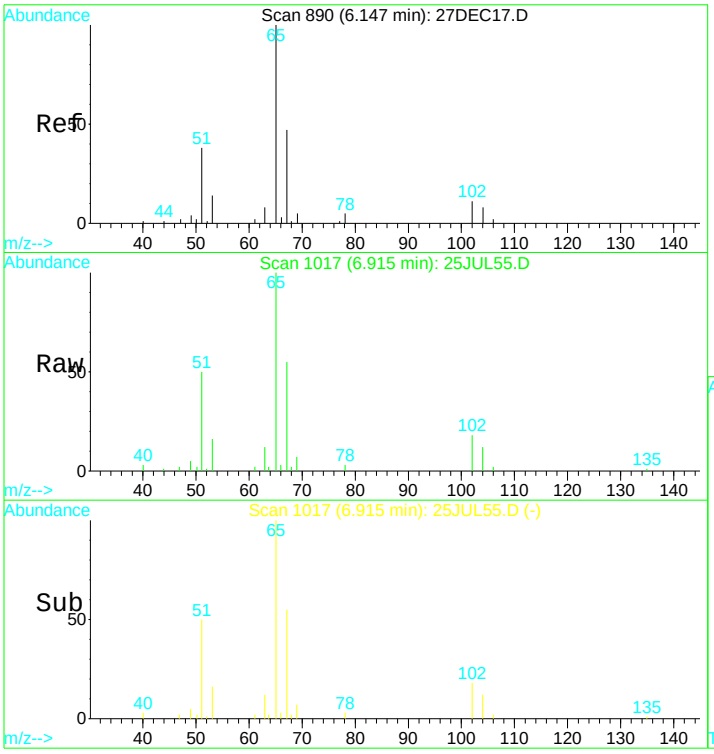


#15
Cis-1,2-dichloroethene
Concen: 0.49 ug/L
RT: 5.83 min Scan# 806
Delta R.T. 0.01 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion: 96 Resp: 4279

Ion	Ratio	Lower	Upper
96	100		
98	69.0	51.9	96.3
61	155.8	122.8	228.0
63	49.8	42.1	78.3

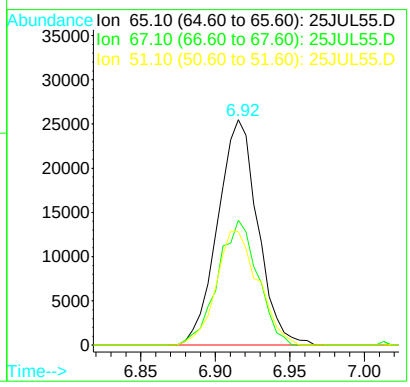


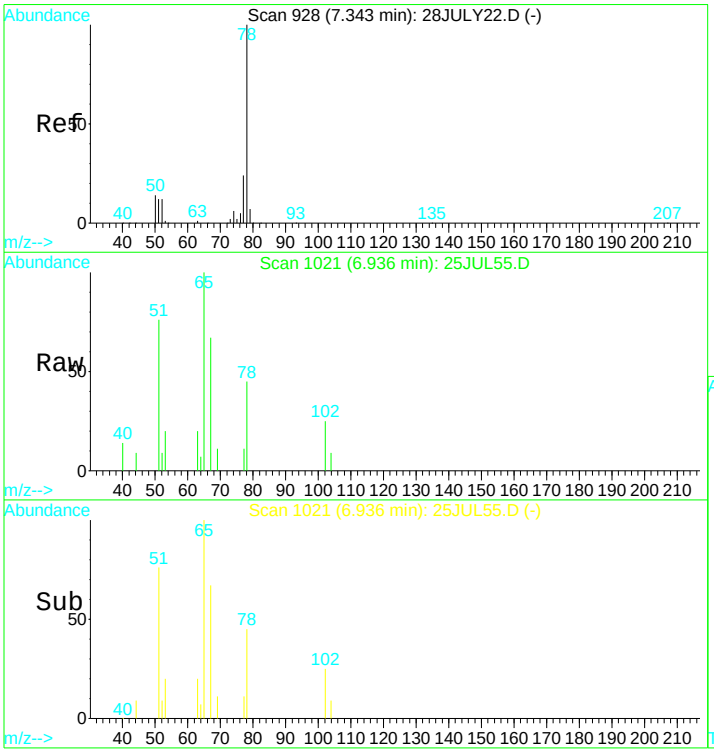


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1017
Delta R.T. 0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion: 65 Resp: 47633

Ion	Ratio	Lower	Upper
65	100		
67	55.3	36.2	67.2
51	53.2	42.0	78.0

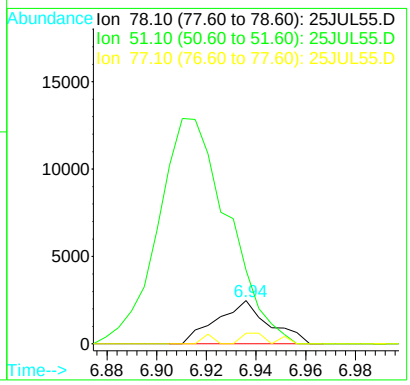


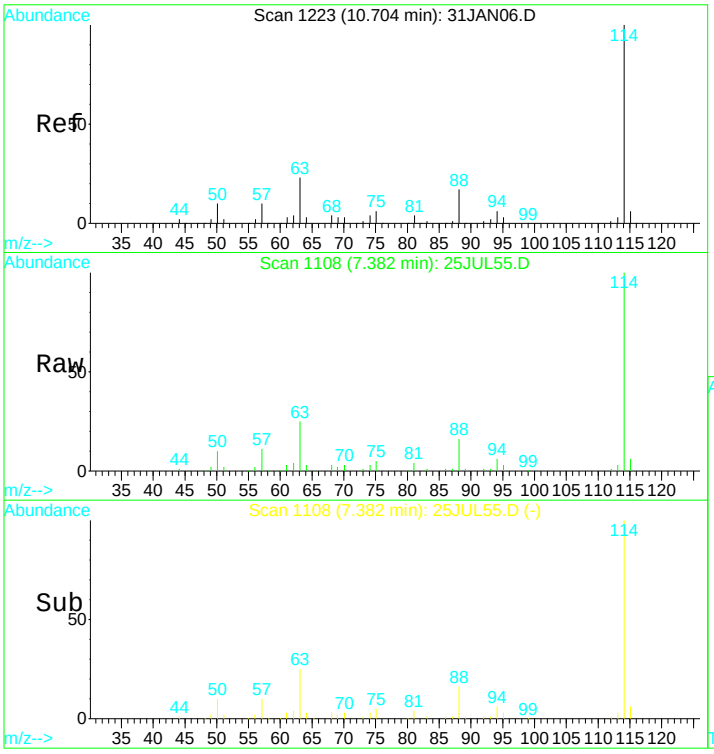


#23
Benzene
Concen: 0.11 ug/L
RT: 6.94 min Scan# 1021
Delta R.T. 0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion: 78 Resp: 3589

Ion	Ratio	Lower	Upper
78	100		
51	0.0	114.8	213.2#
77	14.1	15.2	28.2#

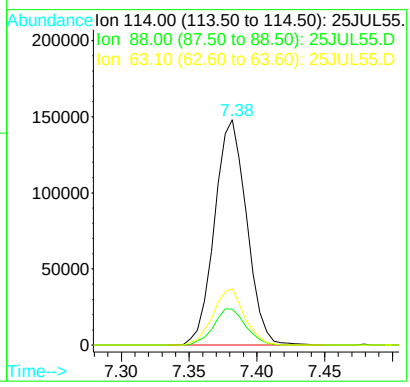


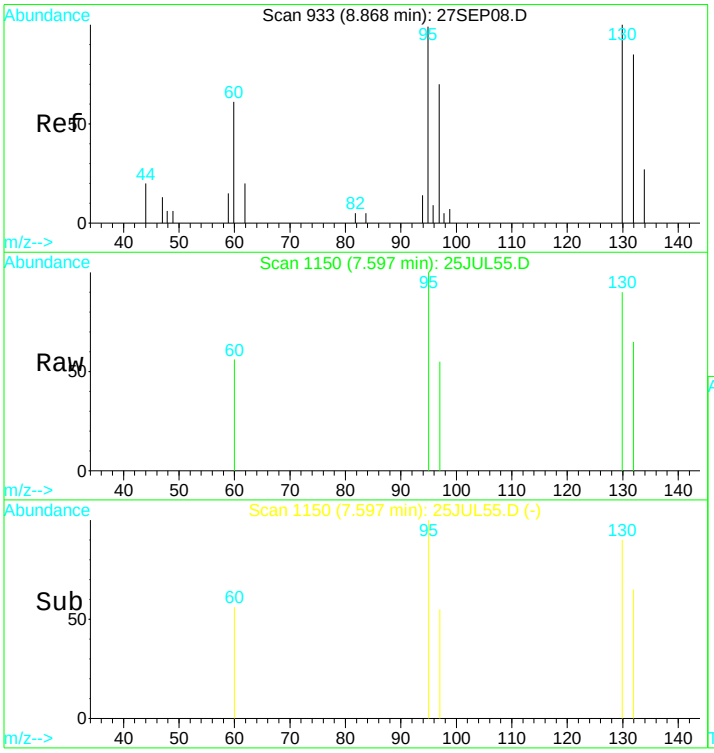


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion:114 Resp: 243804

Ion	Ratio	Lower	Upper
114	100		
88	16.1	11.7	21.7
63	24.5	16.7	30.9

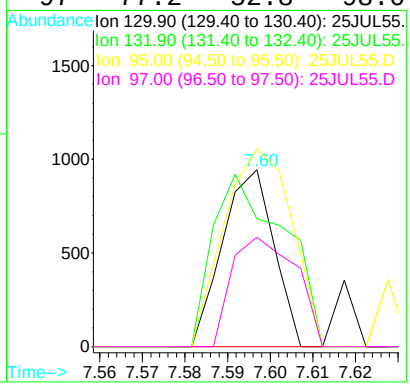


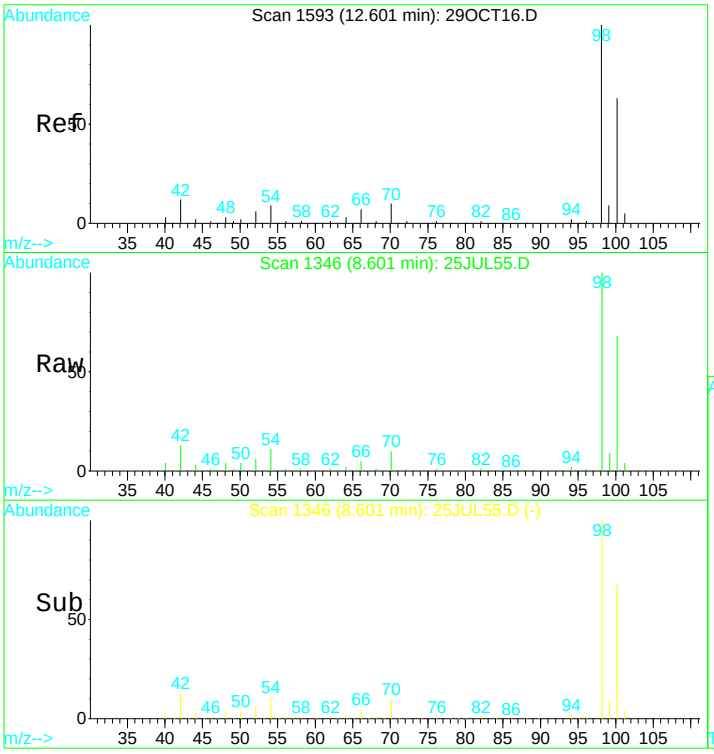


#25
Trichloroethene
Concen: 0.09 ug/L
RT: 7.60 min Scan# 1150
Delta R.T. 0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion:130 Resp: 790

Ion	Ratio	Lower	Upper
130	100		
132	134.8	66.1	122.7#
95	147.7	86.1	159.9
97	77.2	52.8	98.0

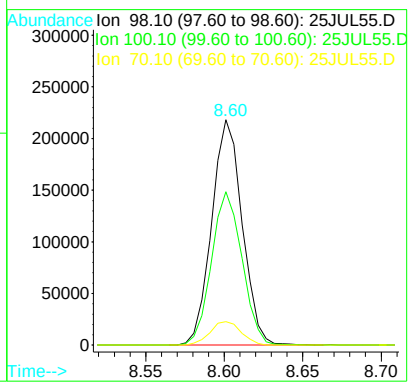


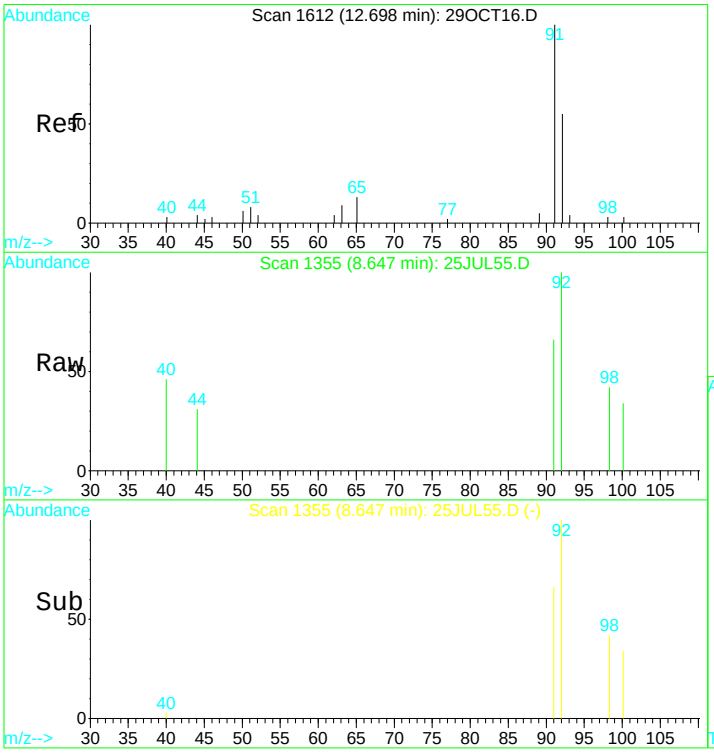


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion: 98 Resp: 294840

Ion	Ratio	Lower	Upper
98	100		
100	68.0	49.7	92.3
70	10.7	7.3	13.7

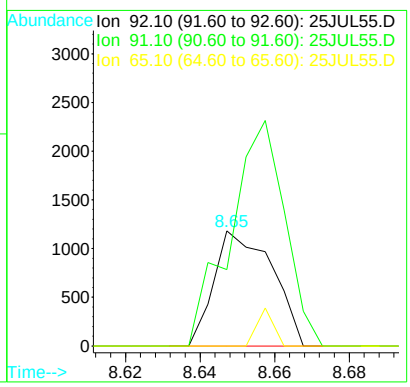


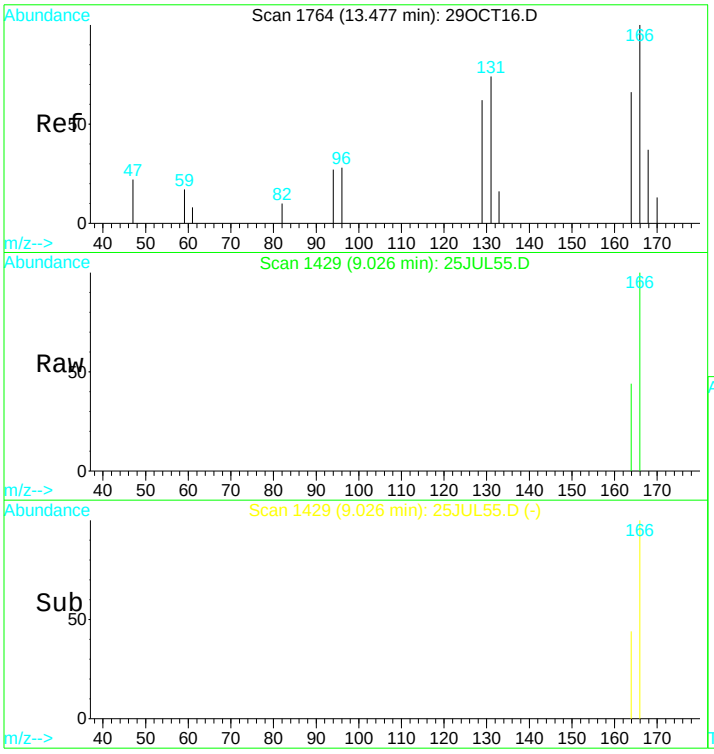


#32
Toluene
Concen: 0.06 ug/L
RT: 8.65 min Scan# 1355
Delta R.T. -0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion: 92 Resp: 1278

Ion	Ratio	Lower	Upper
92	100		
91	183.8	122.6	227.6
65	9.4	16.5	30.7#

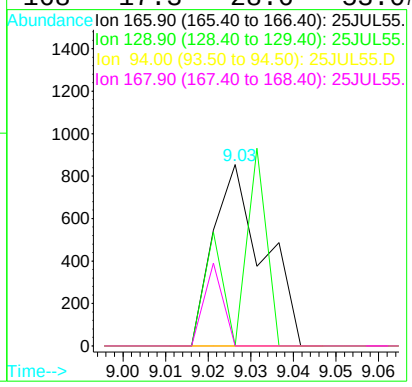


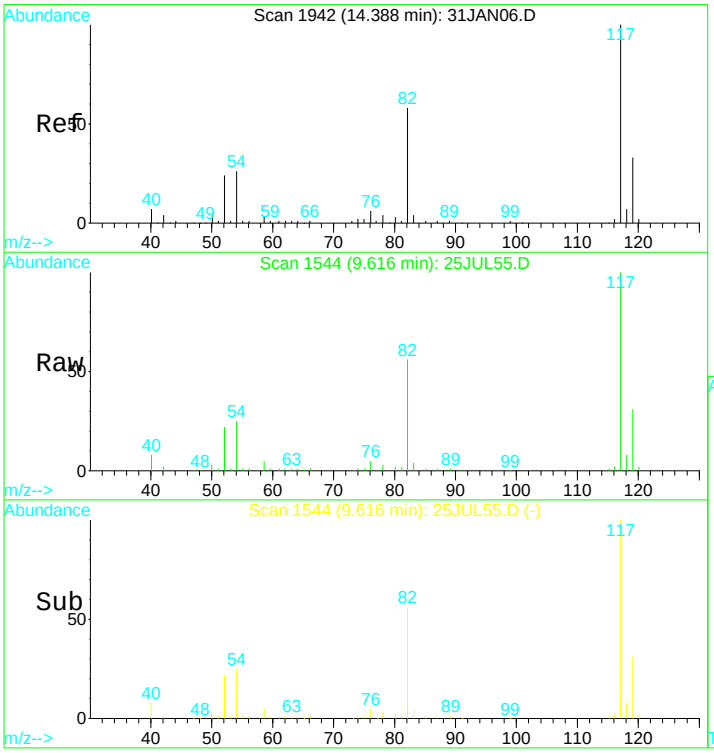


#35
Tetrachloroethene (PCE)
Concen: 0.09 ug/L
RT: 9.03 min Scan# 1429
Delta R.T. 0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion:166 Resp: 695

Ion	Ratio	Lower	Upper
166	100		
129	64.9	54.3	100.8
94	0.0	24.1	44.7#
168	17.3	28.6	53.0#

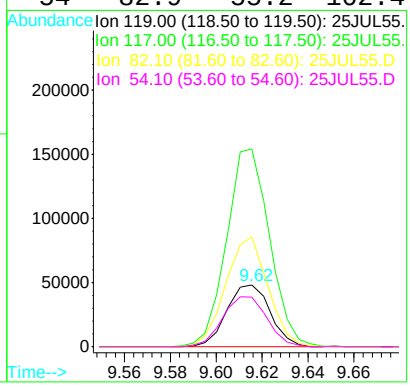


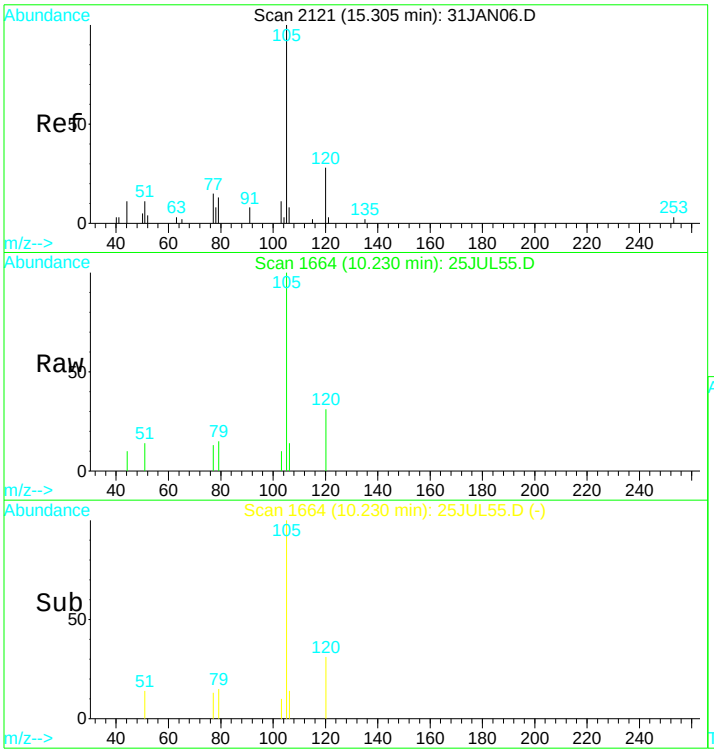


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion:119 Resp: 63437

Ion	Ratio	Lower	Upper
119	100		
117	316.8	214.5	398.4
82	173.6	117.7	218.7
54	82.9	55.2	102.4

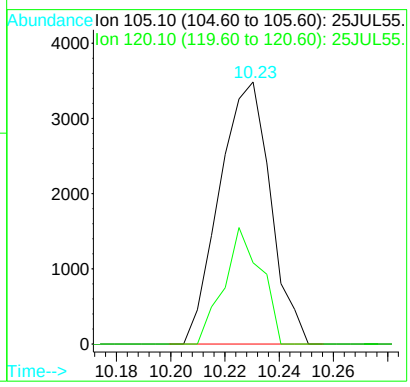


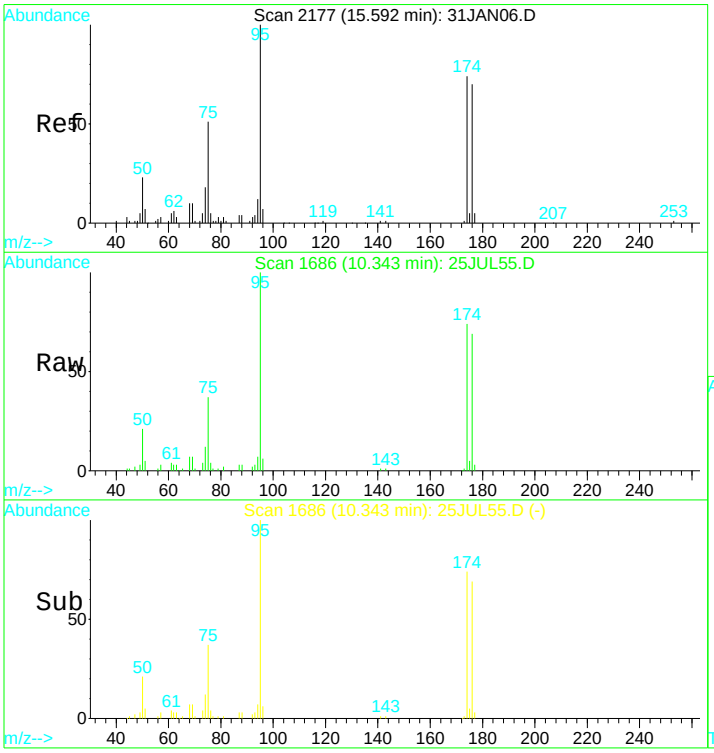


#47
Isopropylbenzene
Concen: 0.13 ug/L
RT: 10.23 min Scan# 1664
Delta R.T. 0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion:105 Resp: 4560

Ion	Ratio	Lower	Upper
105	100		
120	32.4	19.2	35.6

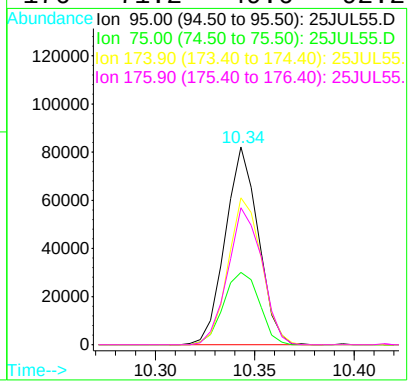


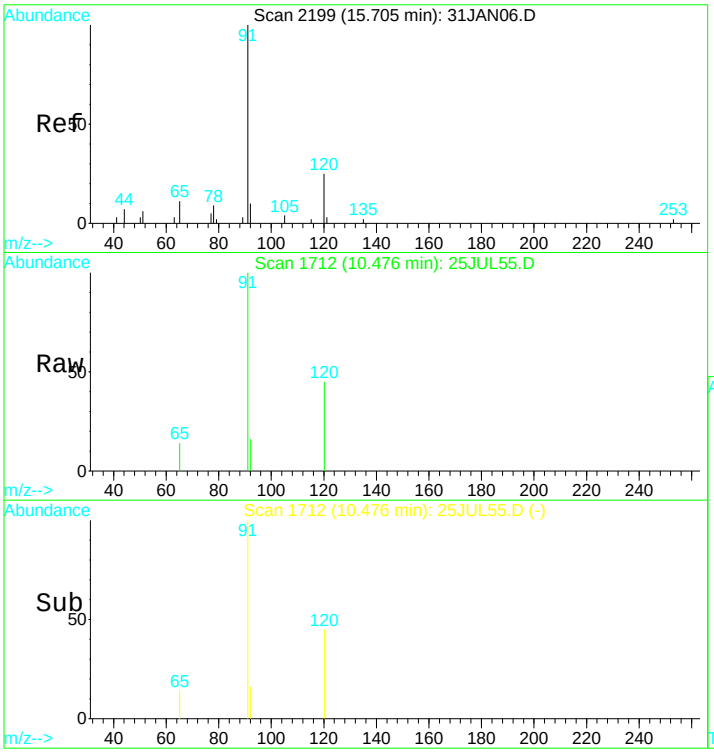


#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion: 95 Resp: 95000

Ion	Ratio	Lower	Upper
95	100		
75	39.5	29.5	54.7
174	74.9	52.3	97.1
176	71.2	49.6	92.2

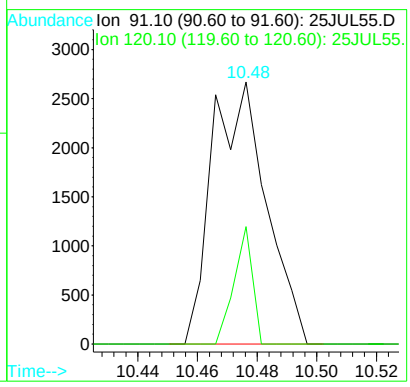


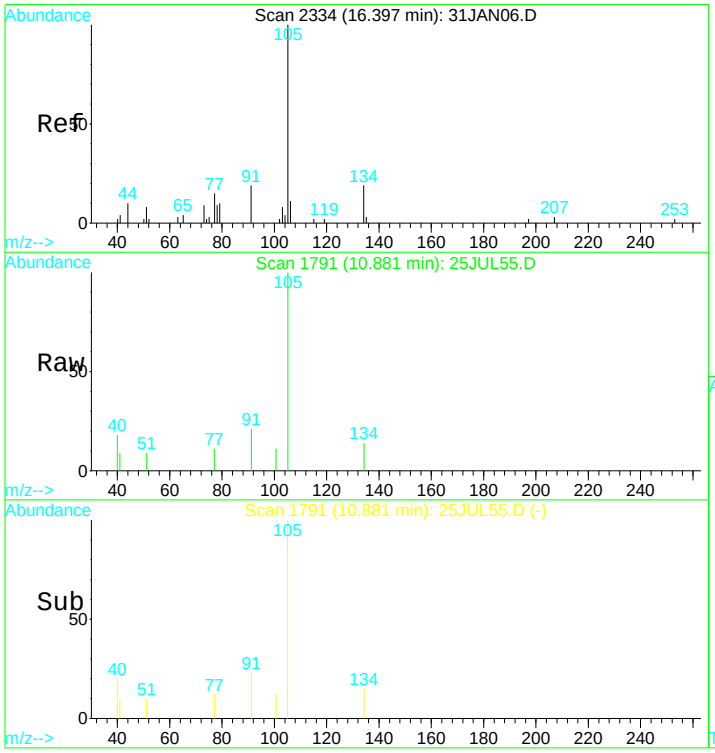


#51
n-propylbenzene
Concen: 0.07 ug/L
RT: 10.48 min Scan# 1712
Delta R.T. 0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion: 91 Resp: 3386

Ion	Ratio	Lower	Upper
91	100		
120	15.1	14.8	27.6

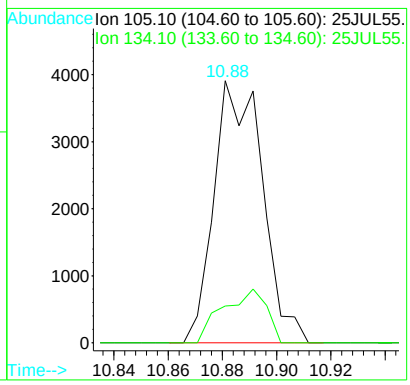


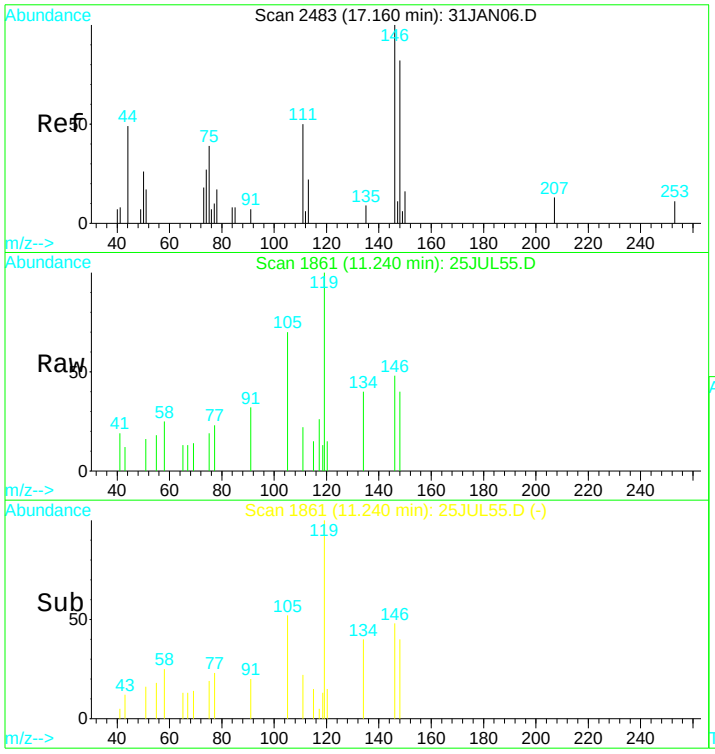


#58
sec-butylbenzene
Concen: 0.12 ug/L
RT: 10.88 min Scan# 1791
Delta R.T. -0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion:105 Resp: 4839

Ion	Ratio	Lower	Upper
105	100		
134	18.5	14.4	26.7

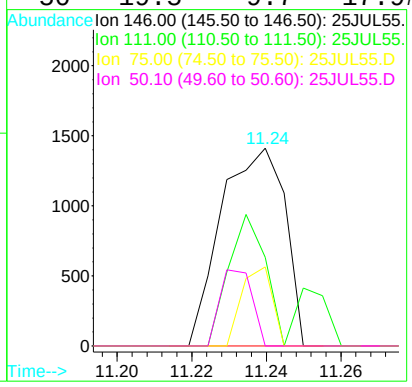


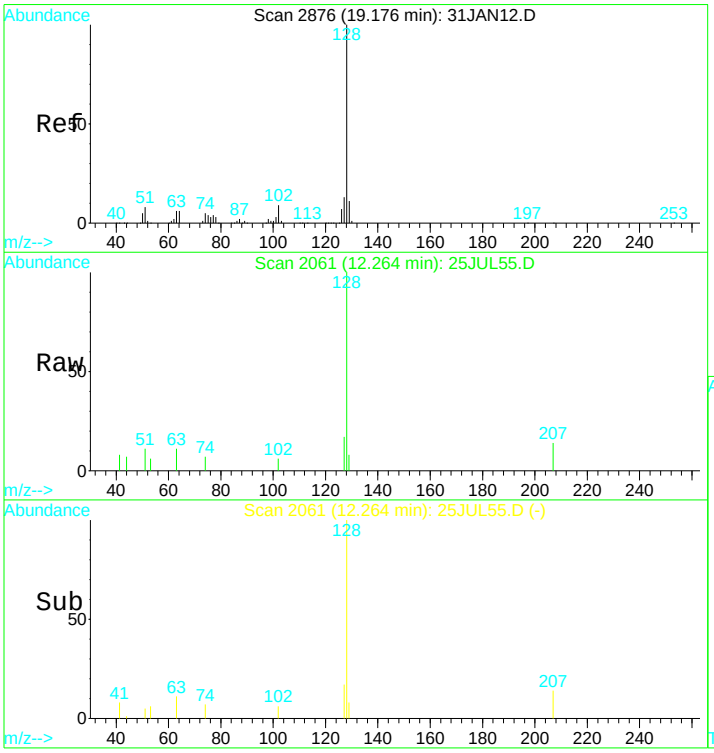


#63
1,2-Dichlorobenzene
Concen: 0.12 ug/L
RT: 11.24 min Scan# 1861
Delta R.T. 0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion:146 Resp: 1674

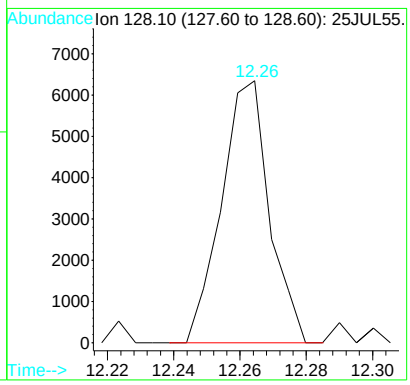
Ion	Ratio	Lower	Upper
146	100		
111	38.5	28.8	53.6
75	19.2	19.8	36.8#
50	19.5	9.7	17.9#





#68
naphthalene
Concen: 0.64 ug/L
RT: 12.26 min Scan# 2061
Delta R.T. 0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion:128 Resp: 6344



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL55.D Vial: 55
Acq On : 26 Jul 2017 2:22 am Operator: MGC
Sample : 1720121-09 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:00 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	166085	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	243804	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	63437	10.00	ug/L	0.00

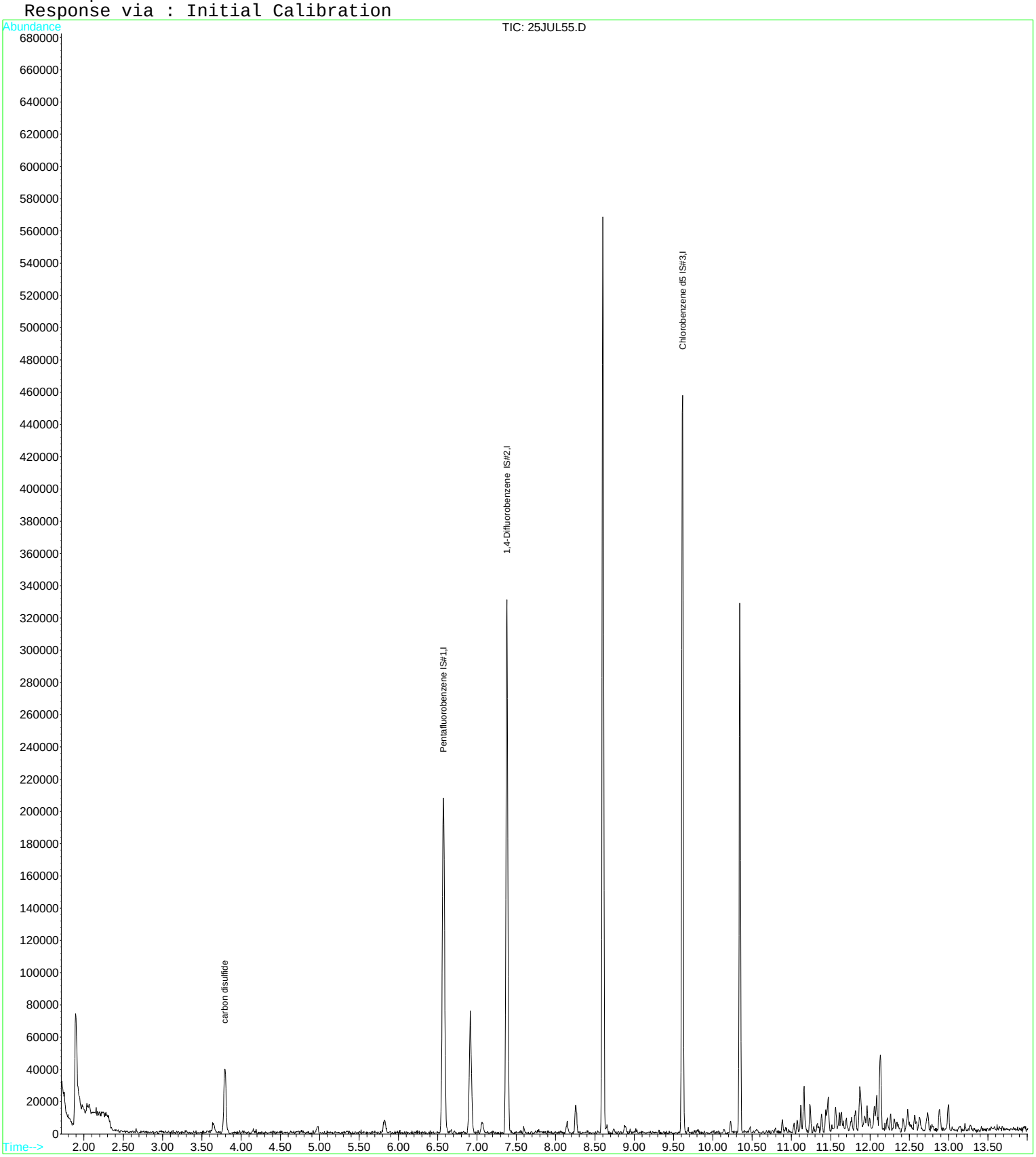
Target Compounds						Qvalue
15) carbon disulfide	3.79	76	62594	2.49	ug/L	98

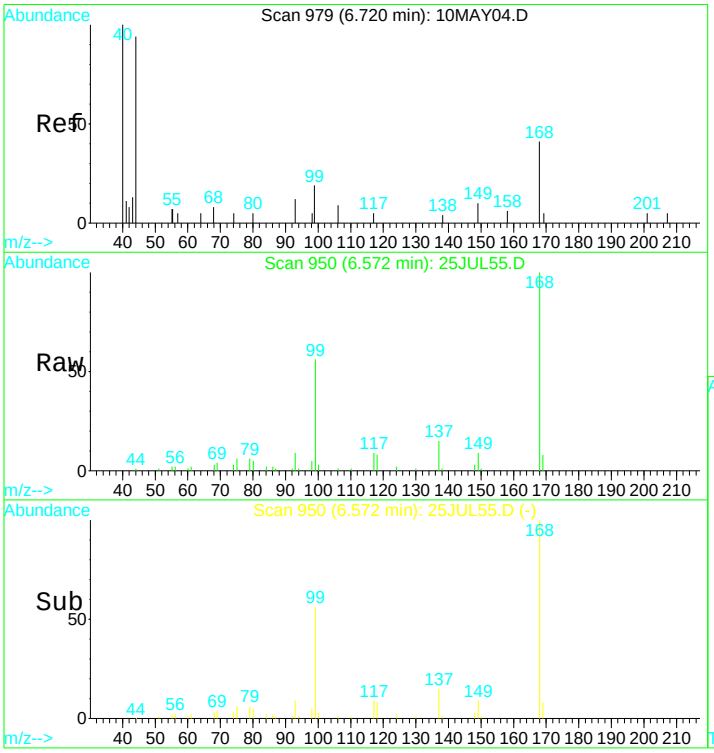
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL55.D Vial: 55
Acq On : 26 Jul 2017 2:22 am Operator: MGC
Sample : 1720121-09 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:00 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration

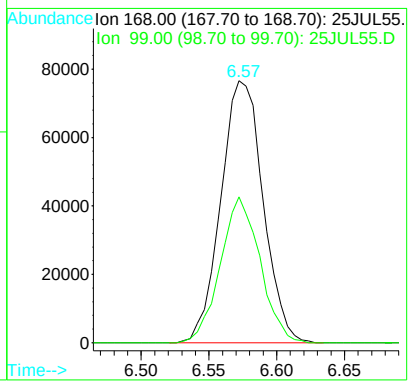


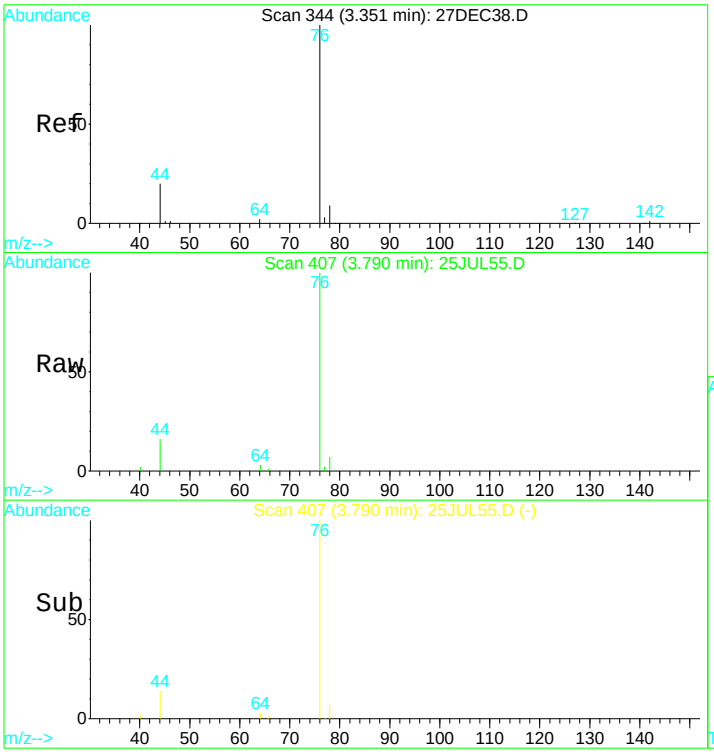


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion:168 Resp: 166085

Ion	Ratio	Lower	Upper
168	100		
99	52.2	36.1	67.1

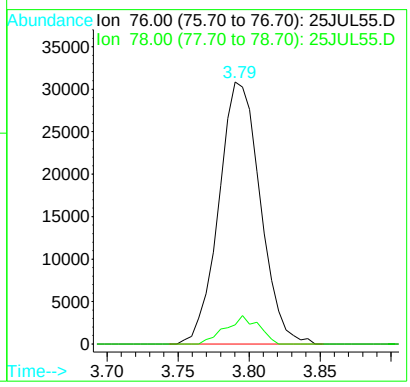


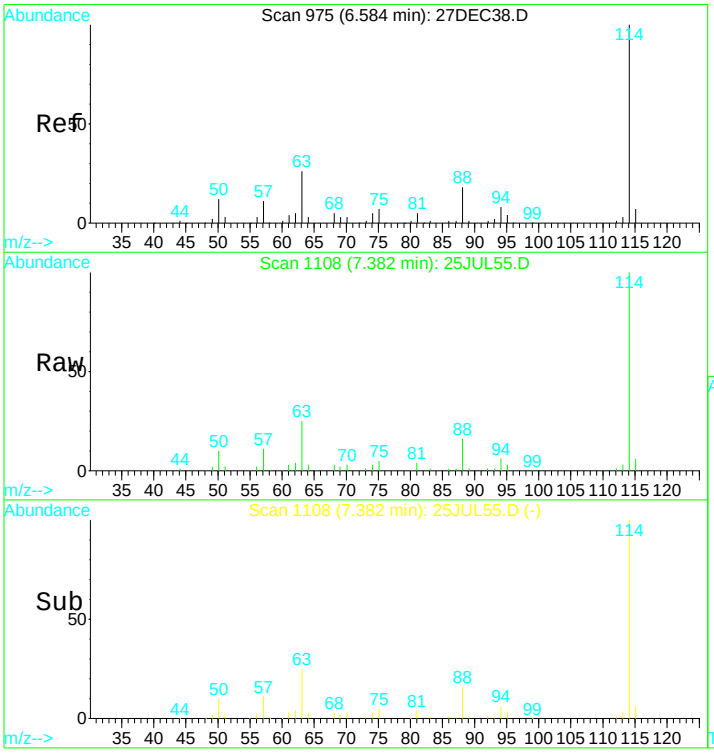


#15
carbon disulfide
Concen: 2.49 ug/L
RT: 3.79 min Scan# 407
Delta R.T. -0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion: 76 Resp: 62594

Ion	Ratio	Lower	Upper
76	100		
78	8.6	6.5	12.1

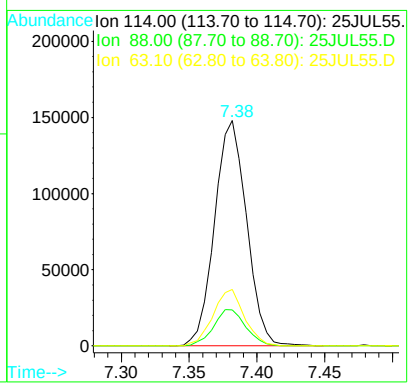


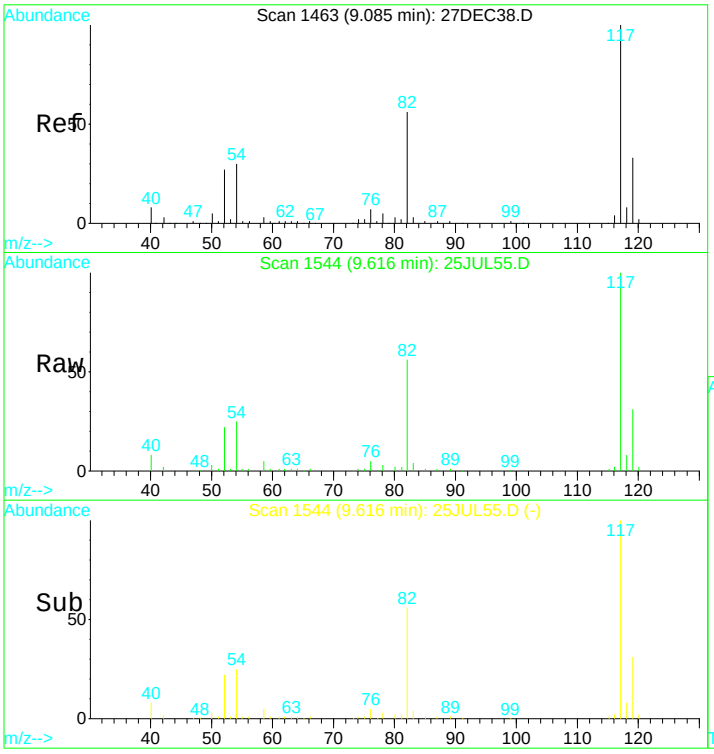


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion:114 Resp: 243804

Ion	Ratio	Lower	Upper
114	100		
88	16.1	11.1	20.7
63	24.5	16.4	30.4

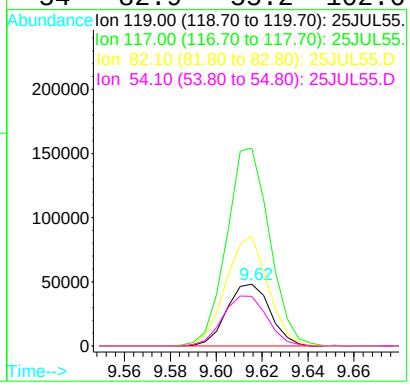




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 25JUL55.D
Acq: 26 Jul 2017 2:22 am

Tgt Ion:119 Resp: 63437

Ion	Ratio	Lower	Upper
119	100		
117	316.8	217.1	403.3
82	173.6	122.7	227.9
54	82.9	55.2	102.6



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL83.D Vial: 13
Acq On : 26 Jul 2017 1:06 pm Operator: MGC
Sample : 1720121-10 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 13:25 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	173348	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	256741	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	68168	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.91	65	50486	9.97	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 99.70%			
31) Toluene d8 SMC#2	8.60	98	309668	9.77	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.70%			
49) Bromofluorobenzene SMC#3	10.34	95	100716	9.89	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.90%			

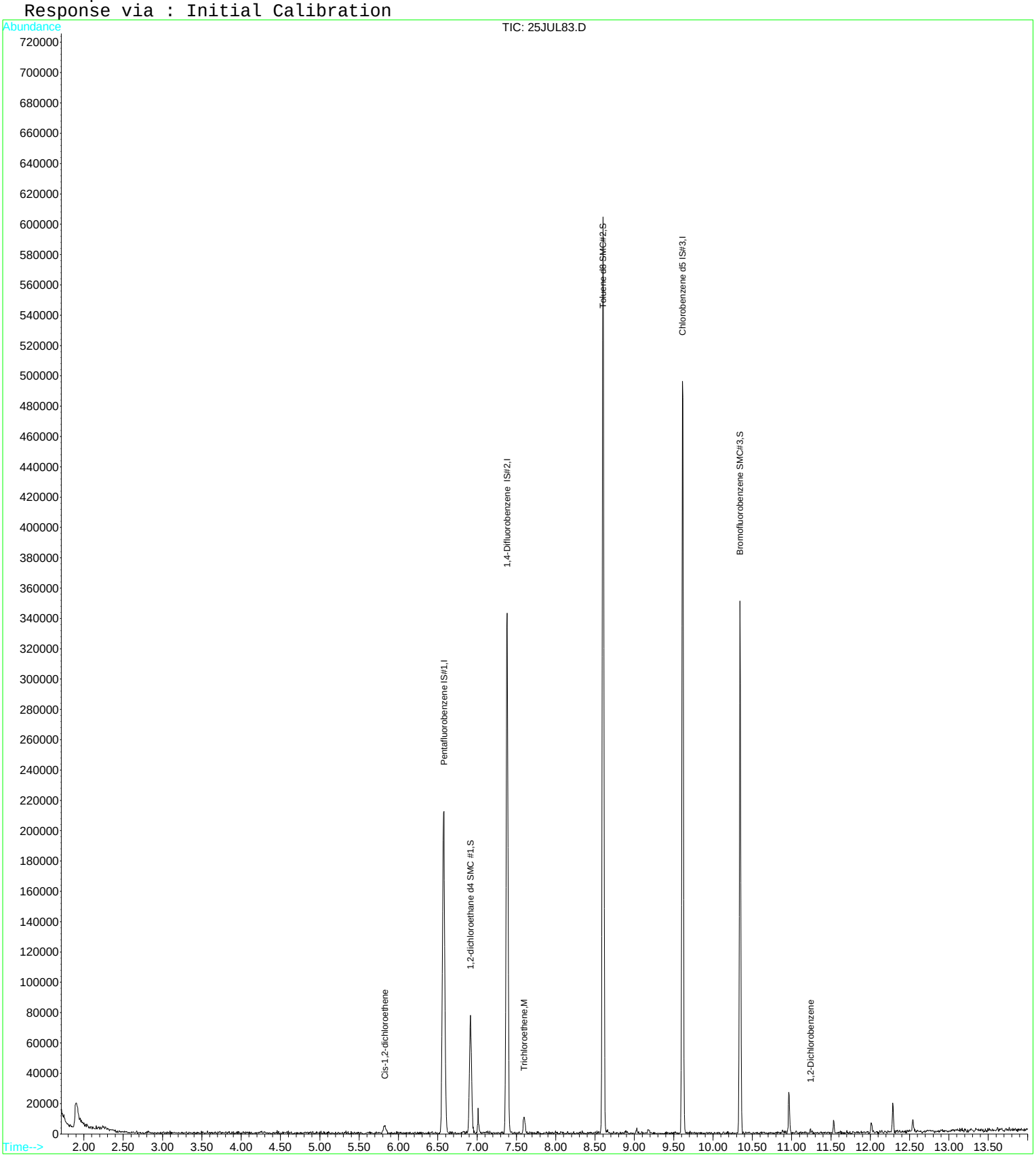
Target Compounds						Qvalue
15) Cis-1,2-dichloroethene	5.83	96	2456	0.27	ug/L #	83
25) Trichloroethene	7.60	130	3579	0.41	ug/L	88
63) 1,2-Dichlorobenzene	11.24	146	954	0.06	ug/L #	58

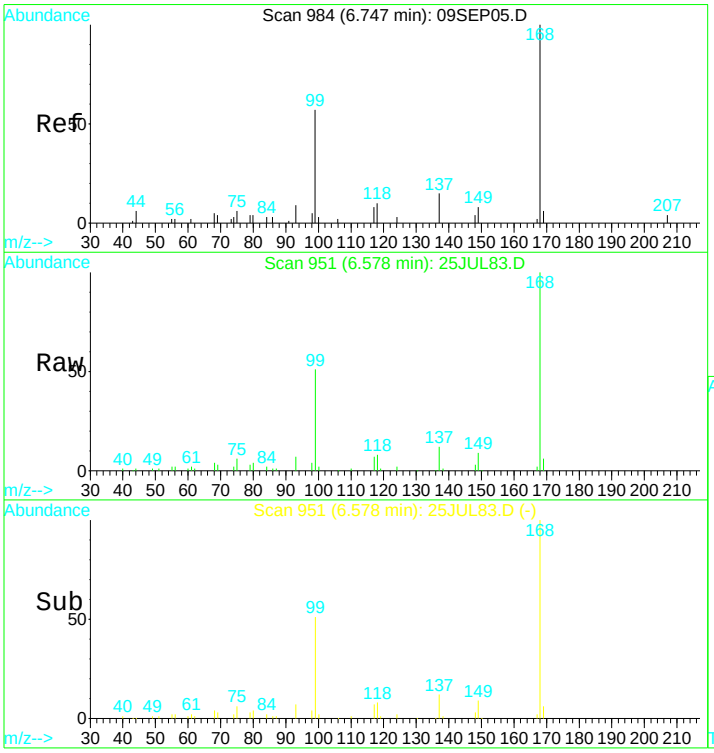
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL83.D Vial: 13
Acq On : 26 Jul 2017 1:06 pm Operator: MGC
Sample : 1720121-10 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 13:25 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

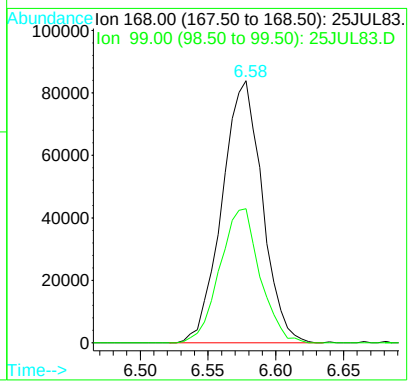


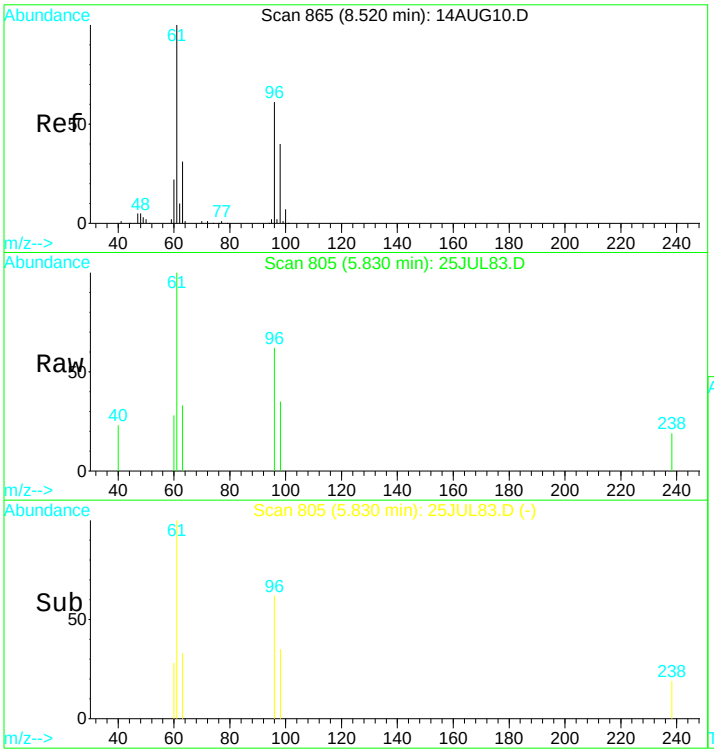


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 951
Delta R.T. 0.00 min
Lab File: 25JUL83.D
Acq: 26 Jul 2017 1:06 pm

Tgt Ion:168 Resp: 173348

Ion	Ratio	Lower	Upper
168	100		
99	51.0	38.7	71.9

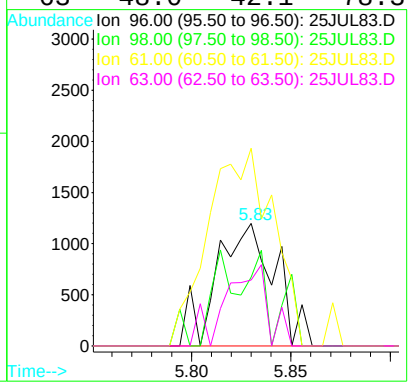


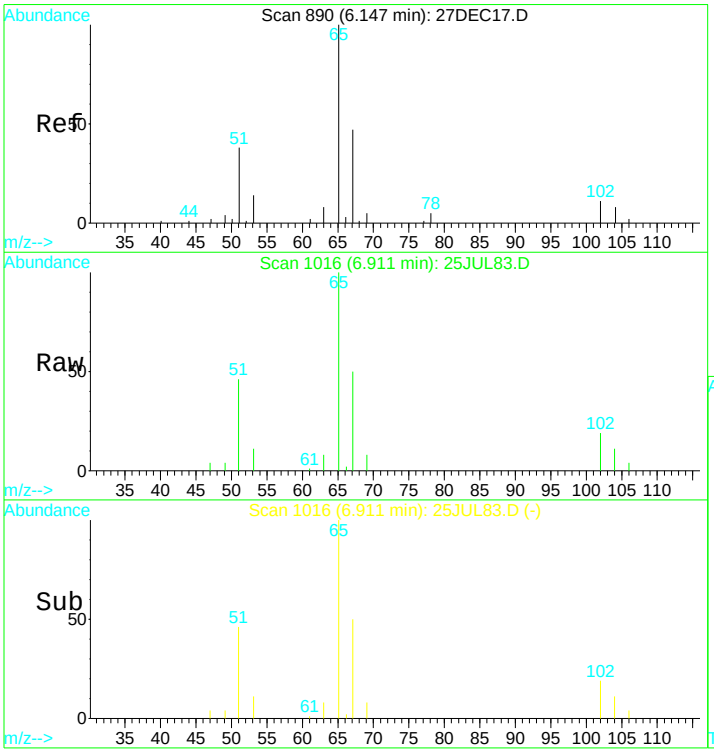


#15
Cis-1,2-dichloroethene
Concen: 0.27 ug/L
RT: 5.83 min Scan# 805
Delta R.T. 0.01 min
Lab File: 25JUL83.D
Acq: 26 Jul 2017 1:06 pm

Tgt Ion: 96 Resp: 2456

Ion	Ratio	Lower	Upper
96	100		
98	30.9	51.9	96.3#
61	179.0	122.8	228.0
63	48.0	42.1	78.3

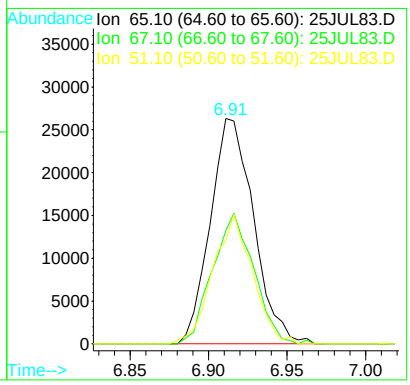


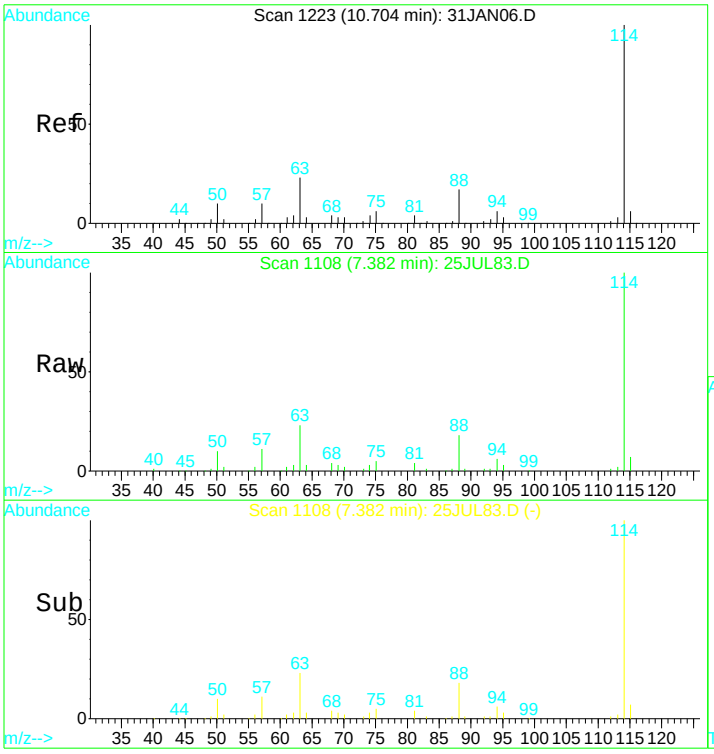


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.91 min Scan# 1016
Delta R.T. -0.00 min
Lab File: 25JUL83.D
Acq: 26 Jul 2017 1:06 pm

Tgt Ion: 65 Resp: 50486

Ion	Ratio	Lower	Upper
65	100		
67	55.1	36.2	67.2
51	52.6	42.0	78.0

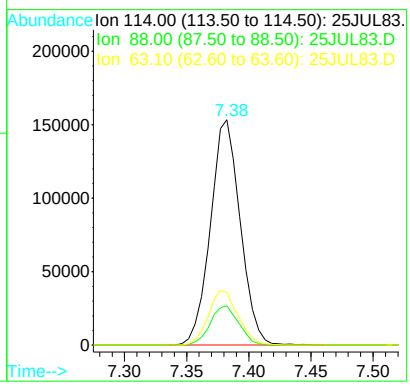


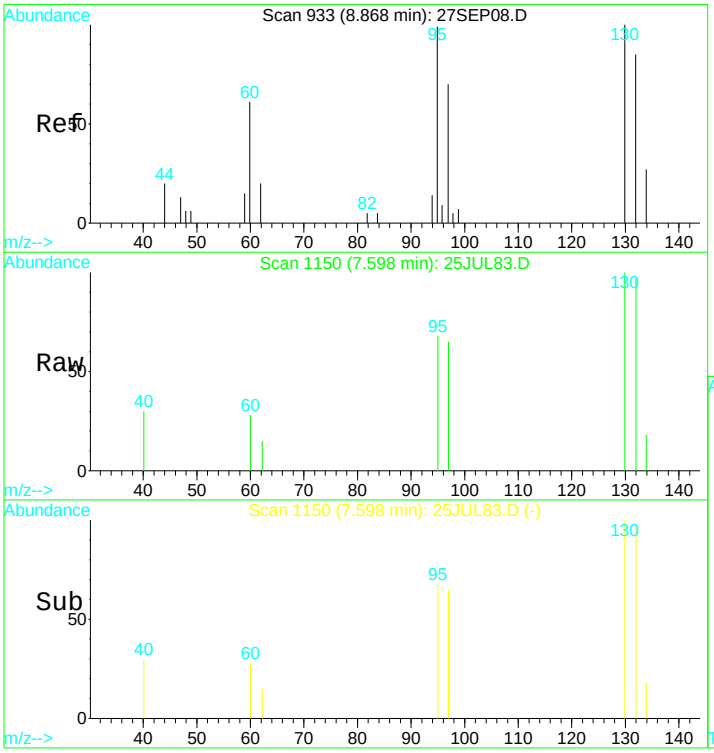


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 25JUL83.D
Acq: 26 Jul 2017 1:06 pm

Tgt Ion:114 Resp: 256741

Ion	Ratio	Lower	Upper
114	100		
88	16.7	11.7	21.7
63	24.1	16.7	30.9

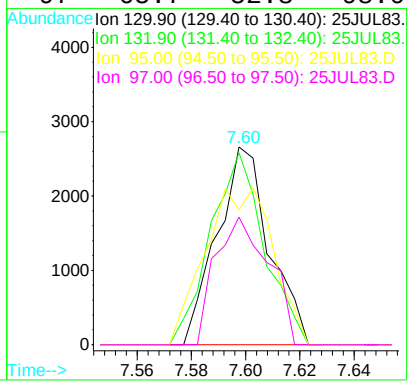


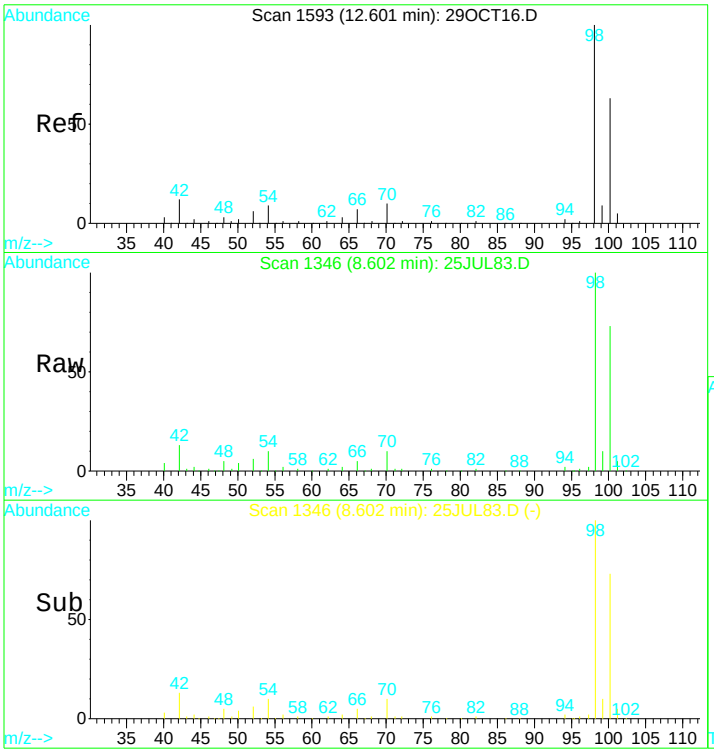


#25
Trichloroethene
Concen: 0.41 ug/L
RT: 7.60 min Scan# 1150
Delta R.T. 0.00 min
Lab File: 25JUL83.D
Acq: 26 Jul 2017 1:06 pm

Tgt Ion:130 Resp: 3579

Ion	Ratio	Lower	Upper
130	100		
132	99.6	66.1	122.7
95	102.8	86.1	159.9
97	65.7	52.8	98.0

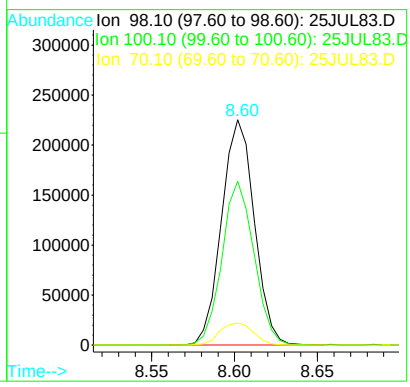


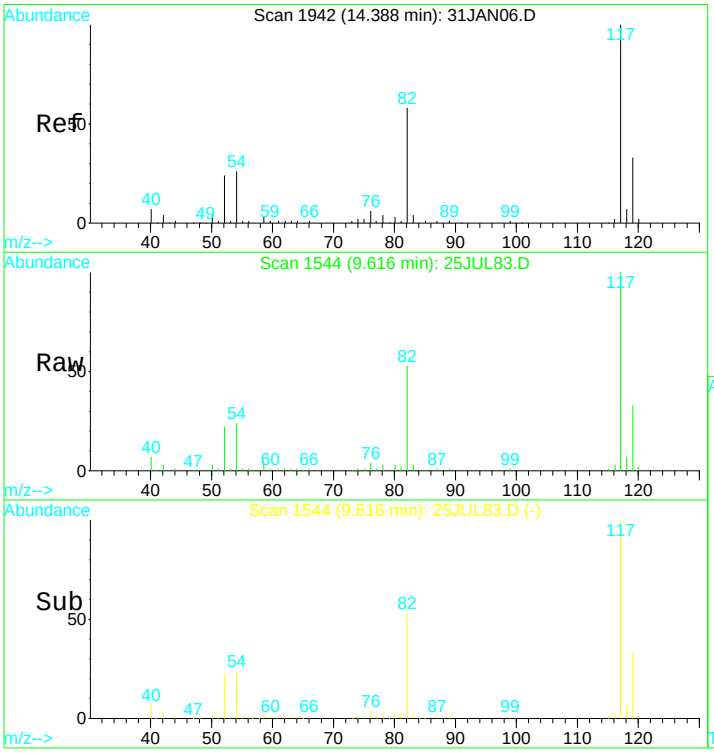


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 25JUL83.D
Acq: 26 Jul 2017 1:06 pm

Tgt Ion: 98 Resp: 309668

Ion	Ratio	Lower	Upper
98	100		
100	70.9	49.7	92.3
70	10.2	7.3	13.7

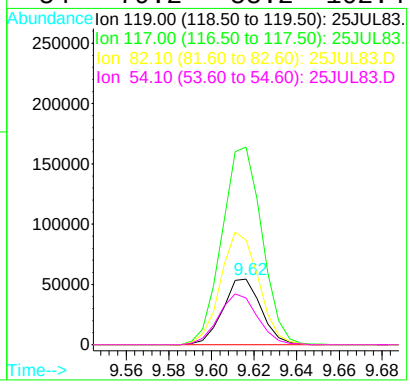


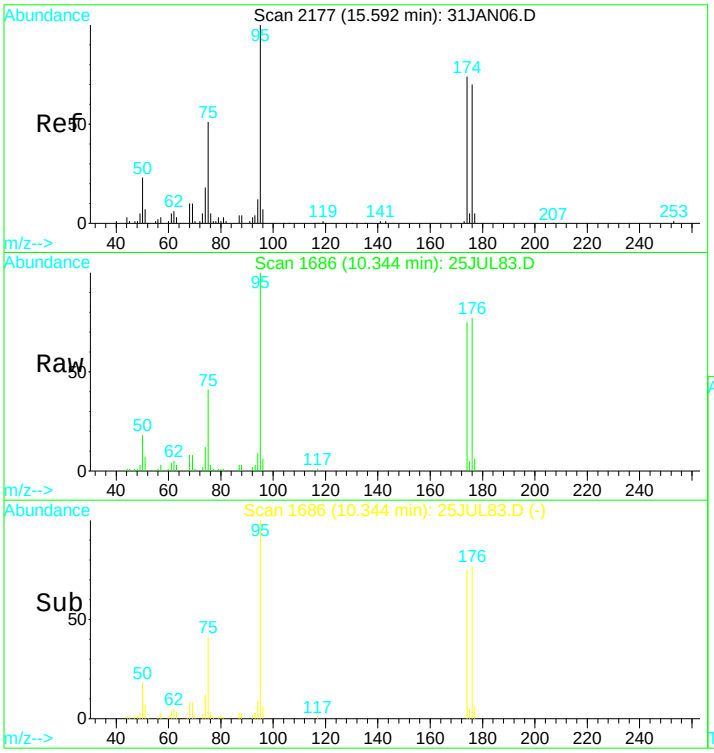


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 25JUL83.D
Acq: 26 Jul 2017 1:06 pm

Tgt Ion:119 Resp: 68168

Ion	Ratio	Lower	Upper
119	100		
117	315.5	214.5	398.4
82	171.1	117.7	218.7
54	79.2	55.2	102.4

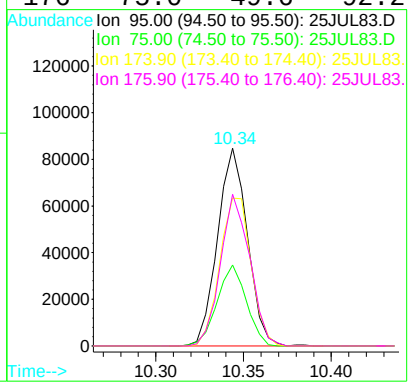


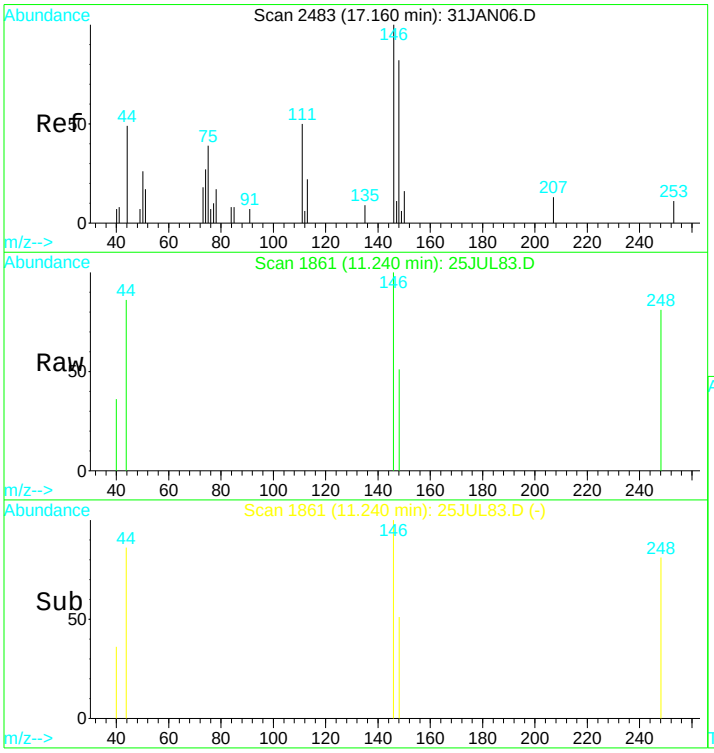


#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 25JUL83.D
Acq: 26 Jul 2017 1:06 pm

Tgt Ion: 95 Resp: 100716

Ion	Ratio	Lower	Upper
95	100		
75	40.0	29.5	54.7
174	78.4	52.3	97.1
176	75.0	49.6	92.2

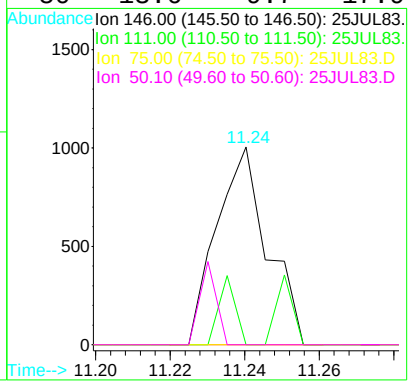




#63
1,2-Dichlorobenzene
Concen: 0.06 ug/L
RT: 11.24 min Scan# 1861
Delta R.T. 0.00 min
Lab File: 25JUL83.D
Acq: 26 Jul 2017 1:06 pm

Tgt Ion:146 Resp: 954

Ion	Ratio	Lower	Upper
146	100		
111	11.3	28.8	53.6#
75	0.0	19.8	36.8#
50	13.6	9.7	17.9



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL83.D Vial: 13
Acq On : 26 Jul 2017 1:06 pm Operator: MGC
Sample : 1720121-10 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 13:26 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	173348	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	256741	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	68168	10.00	ug/L	0.00

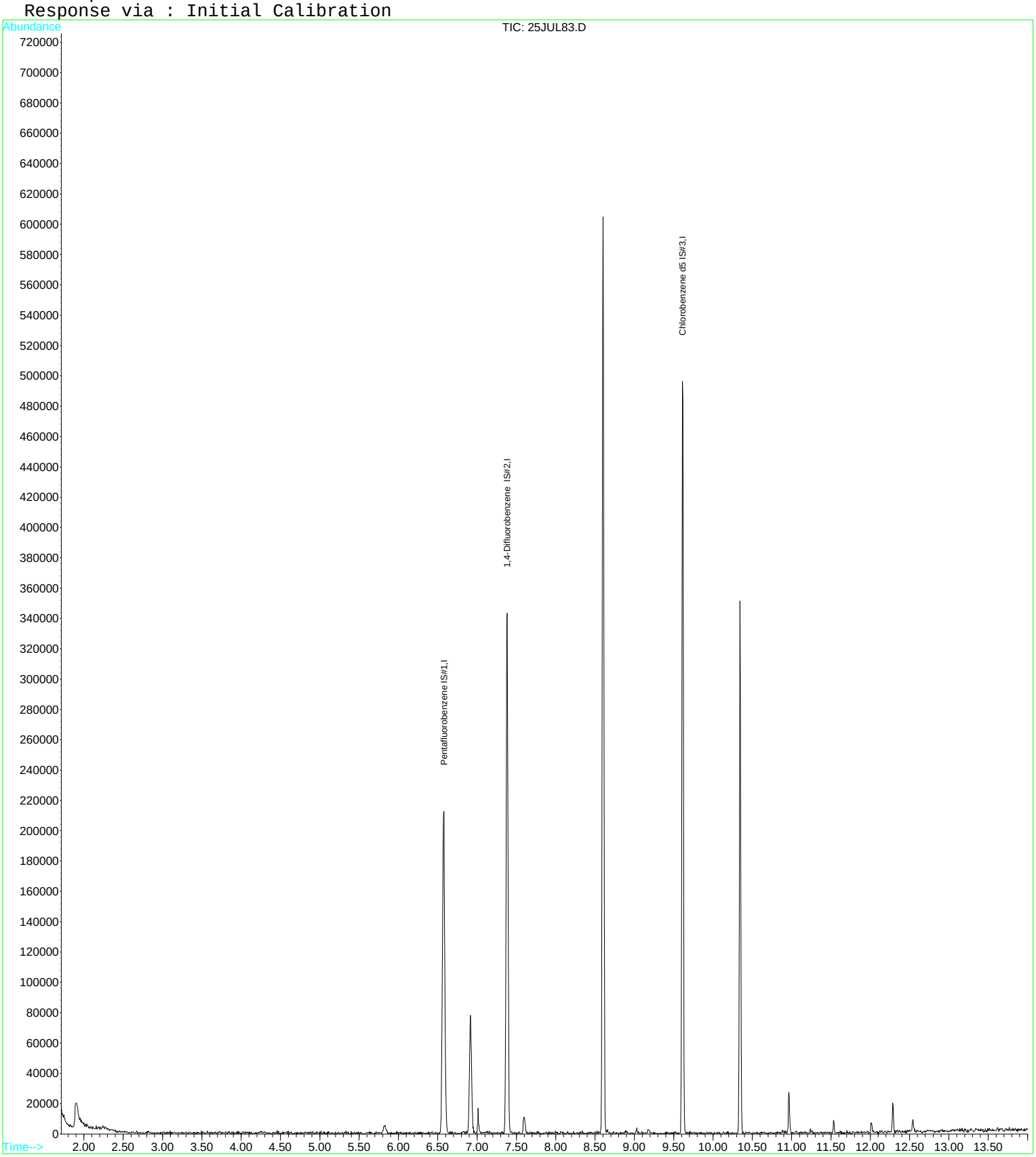
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL83.D Vial: 13
Acq On : 26 Jul 2017 1:06 pm Operator: MGC
Sample : 1720121-10 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 13:26 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL84.D Vial: 14
Acq On : 26 Jul 2017 1:29 pm Operator: MGC
Sample : 1720121-11 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 13:52 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	169045	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	253846	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	67984	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	50580	10.24	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 102.40%			
31) Toluene d8 SMC#2	8.60	98	303364	9.68	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.80%			
49) Bromofluorobenzene SMC#3	10.34	95	97005	9.56	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 95.60%			

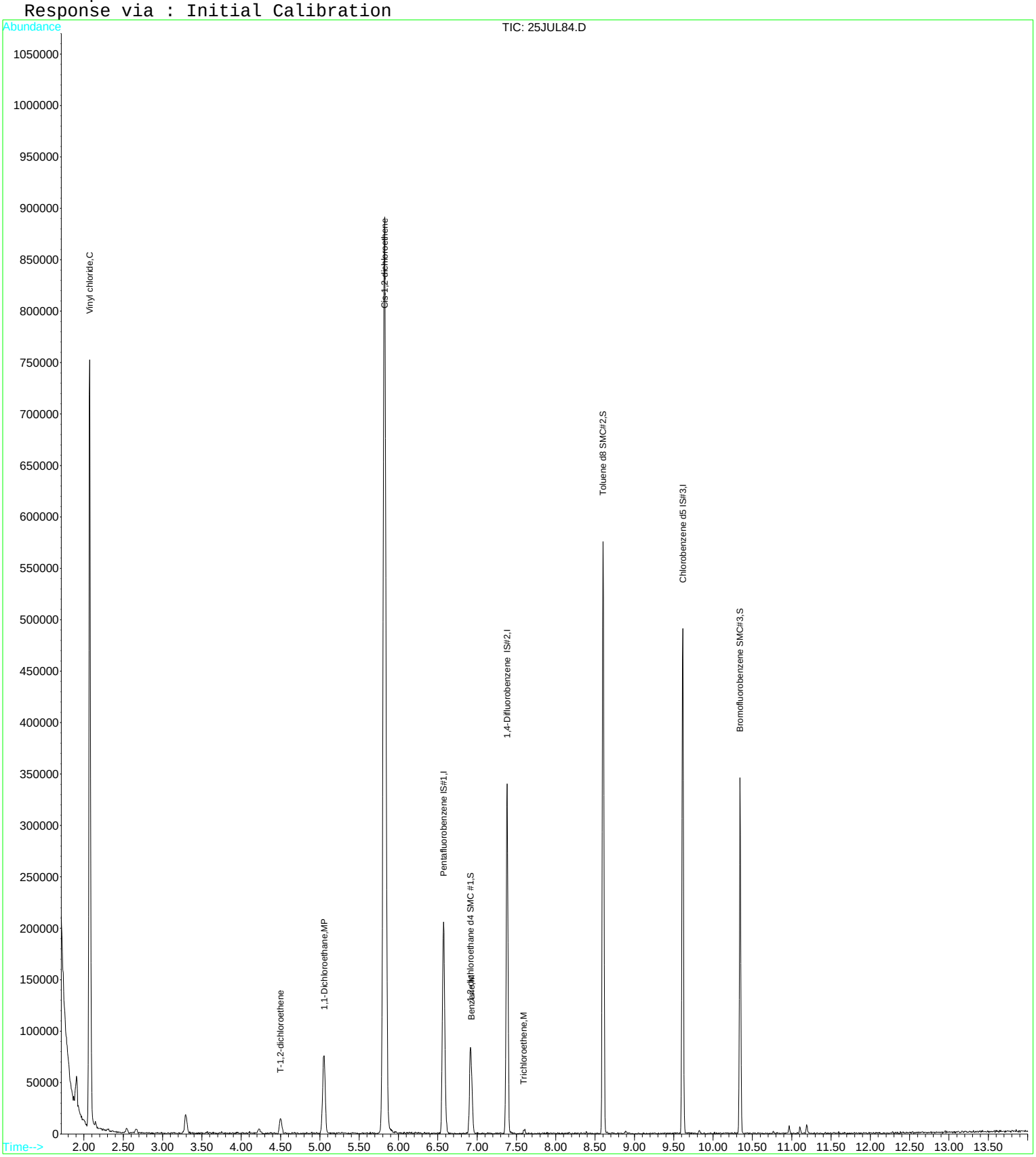
Target Compounds						Qvalue
4) Vinyl chloride	2.07	62	672516	53.09	ug/L #	66
12) T-1,2-dichloroethene	4.50	96	6405	0.76	ug/L	96
13) 1,1-Dichloroethane	5.05	63	100673	5.57	ug/L	100
15) Cis-1,2-dichloroethene	5.82	96	500277	56.67	ug/L	87
23) Benzene	6.93	78	21834	0.63	ug/L	83
25) Trichloroethene	7.59	130	1303	0.15	ug/L	83

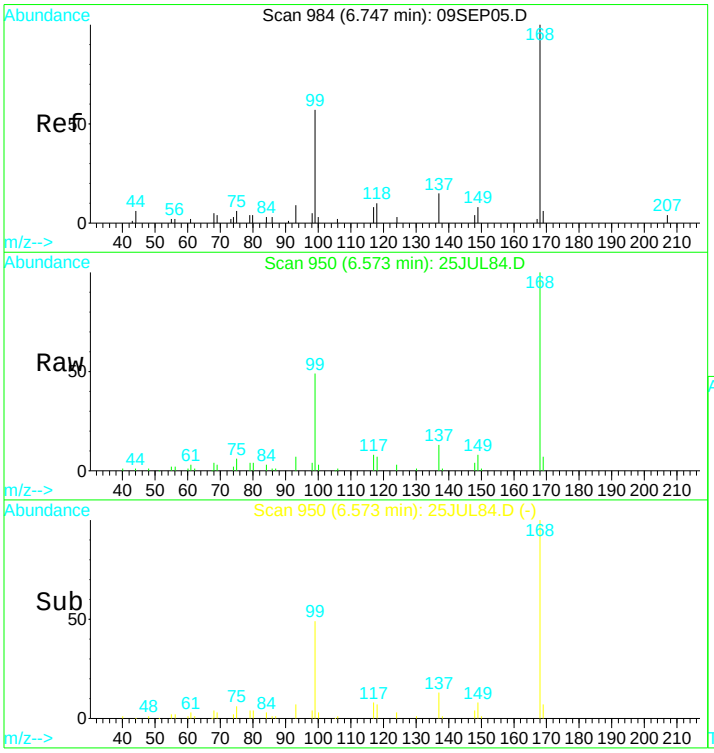
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL84.D Vial: 14
Acq On : 26 Jul 2017 1:29 pm Operator: MGC
Sample : 1720121-11 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 13:52 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

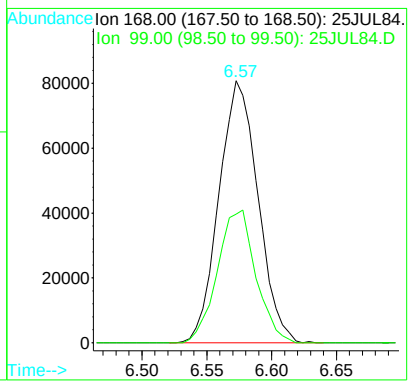


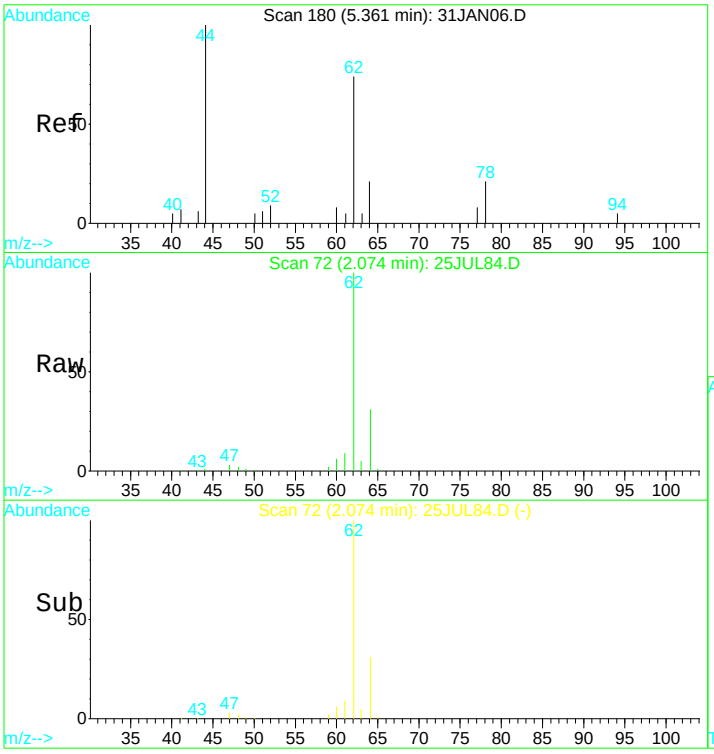


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 25JUL84.D
Acq: 26 Jul 2017 1:29 pm

Tgt Ion:168 Resp: 169045

Ion	Ratio	Lower	Upper
168	100		
99	49.8	38.7	71.9

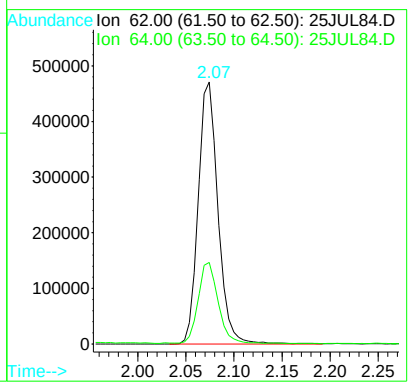


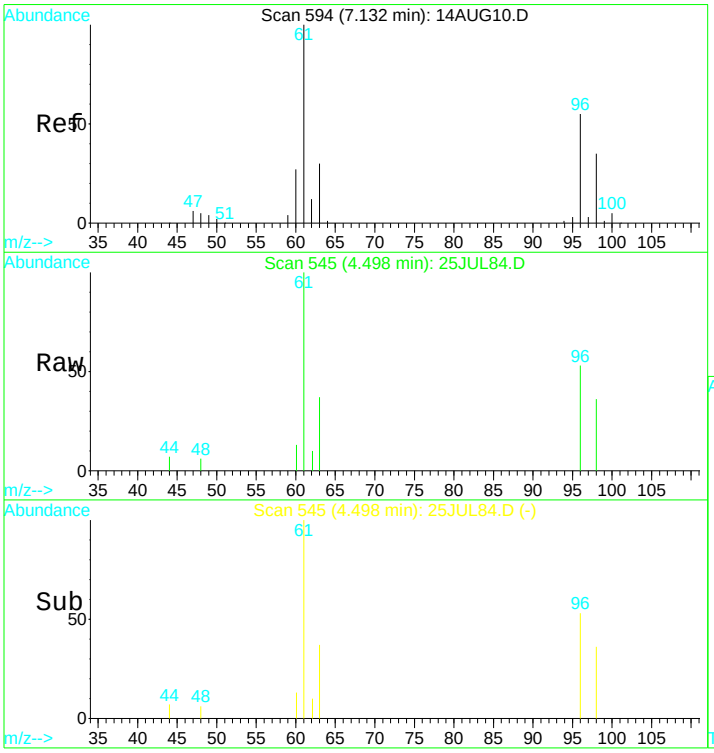


#4
Vinyl chloride
Concen: 53.09 ug/L
RT: 2.07 min Scan# 72
Delta R.T. 0.00 min
Lab File: 25JUL84.D
Acq: 26 Jul 2017 1:29 pm

Tgt Ion: 62 Resp: 672516

Ion	Ratio	Lower	Upper
62	100		
64	31.4	39.3	72.9#

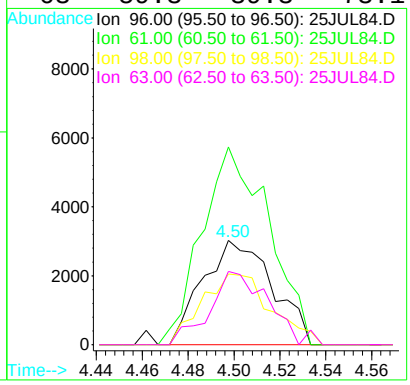


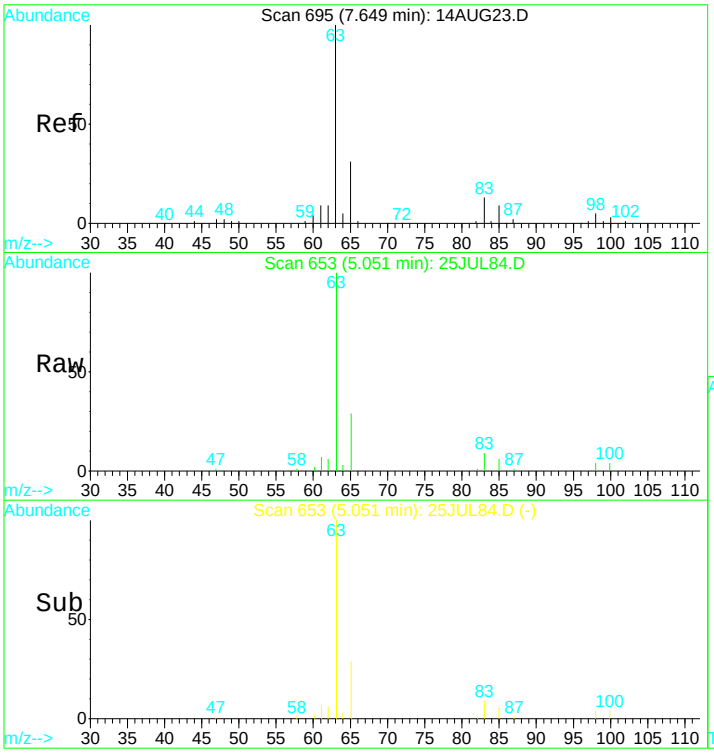


#12
T-1,2-dichloroethene
Concen: 0.76 ug/L
RT: 4.50 min Scan# 545
Delta R.T. -0.00 min
Lab File: 25JUL84.D
Acq: 26 Jul 2017 1:29 pm

Tgt Ion: 96 Resp: 6405

Ion	Ratio	Lower	Upper
96	100		
61	181.5	129.4	240.4
98	67.2	41.5	77.1
63	59.3	39.3	73.1

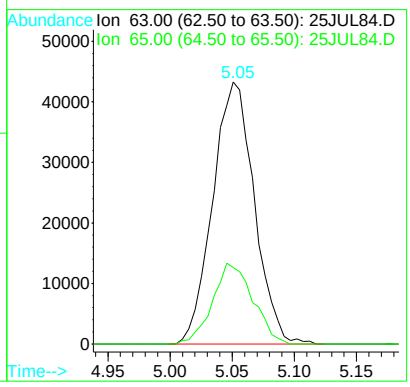


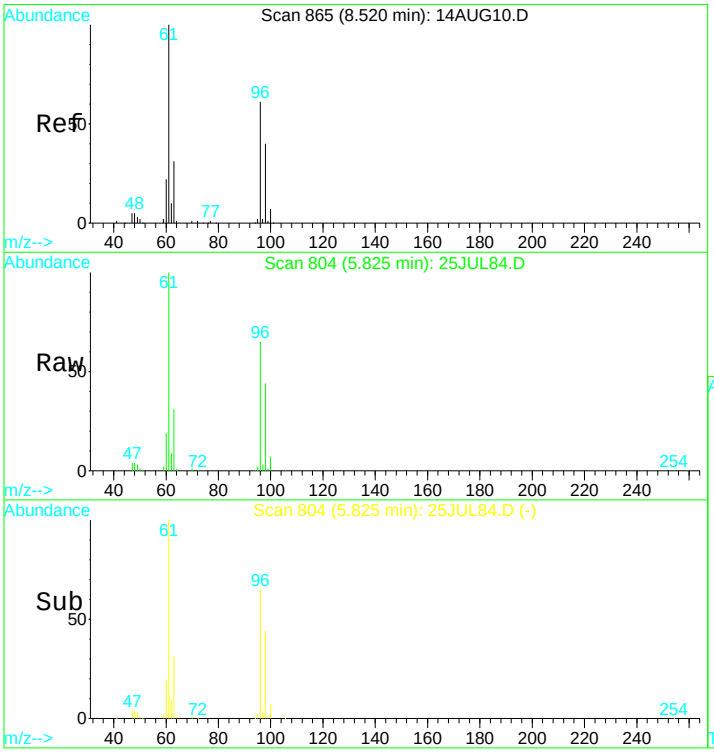


#13
1,1-Dichloroethane
Concen: 5.57 ug/L
RT: 5.05 min Scan# 653
Delta R.T. 0.00 min
Lab File: 25JUL84.D
Acq: 26 Jul 2017 1:29 pm

Tgt Ion: 63 Resp: 100673

Ion	Ratio	Lower	Upper
63	100		
65	29.8	20.8	38.6

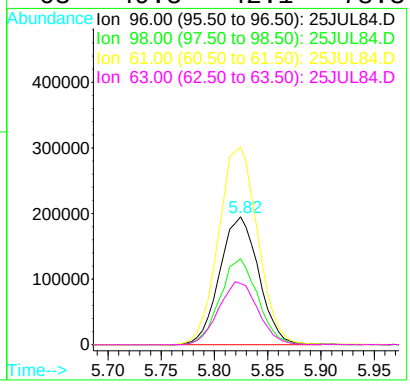


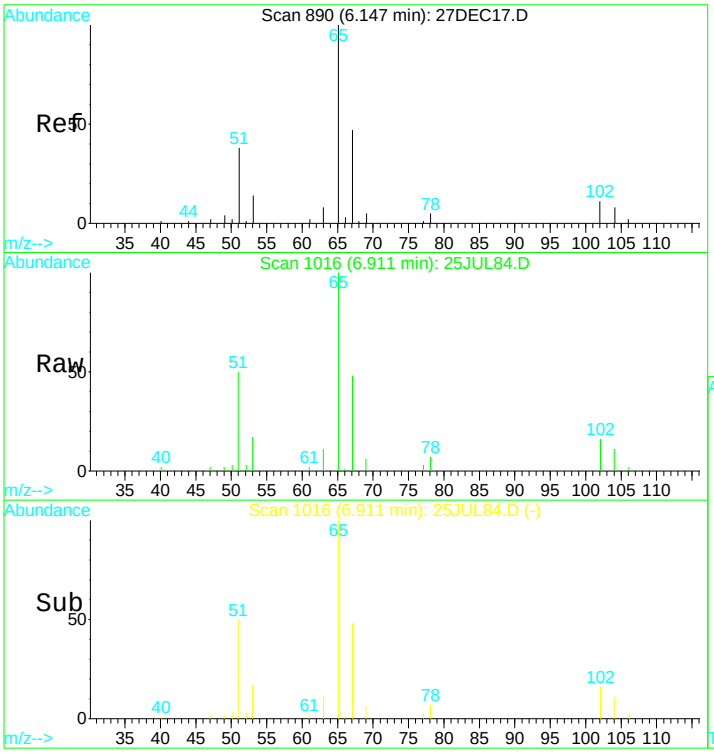


#15
Cis-1,2-dichloroethene
Concen: 56.67 ug/L
RT: 5.82 min Scan# 804
Delta R.T. 0.00 min
Lab File: 25JUL84.D
Acq: 26 Jul 2017 1:29 pm

Tgt Ion: 96 Resp: 500277

Ion	Ratio	Lower	Upper
96	100		
98	64.9	51.9	96.3
61	155.5	122.8	228.0
63	49.5	42.1	78.3

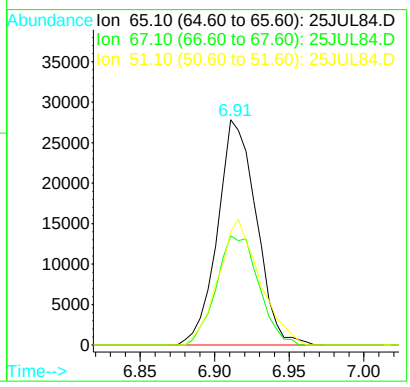


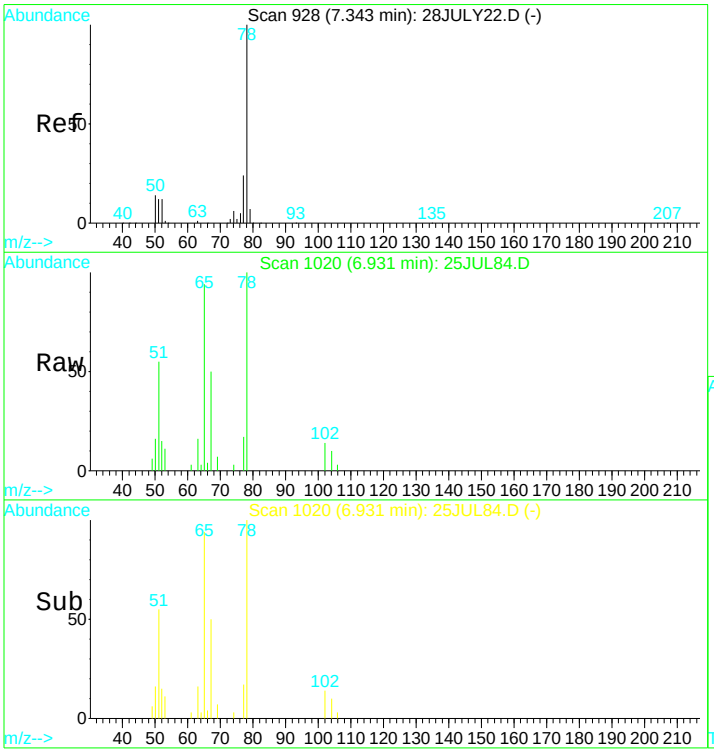


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.91 min Scan# 1016
Delta R.T. -0.00 min
Lab File: 25JUL84.D
Acq: 26 Jul 2017 1:29 pm

Tgt Ion: 65 Resp: 50580

Ion	Ratio	Lower	Upper
65	100		
67	52.8	36.2	67.2
51	59.5	42.0	78.0

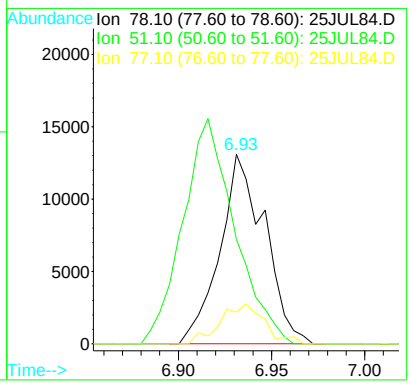


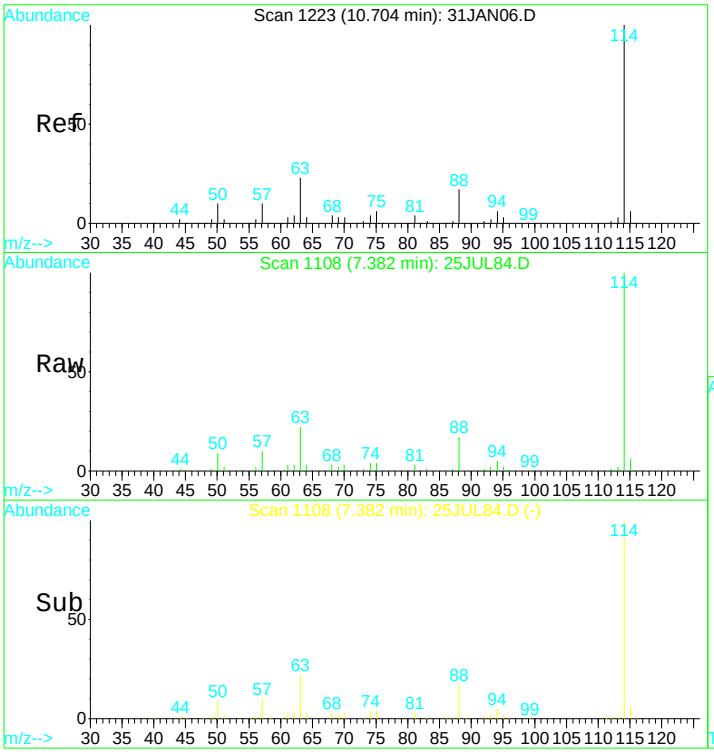


#23
Benzene
Concen: 0.63 ug/L
RT: 6.93 min Scan# 1020
Delta R.T. -0.00 min
Lab File: 25JUL84.D
Acq: 26 Jul 2017 1:29 pm

Tgt Ion: 78 Resp: 21834

Ion	Ratio	Lower	Upper
78	100		
51	137.8	114.8	213.2
77	21.1	15.2	28.2

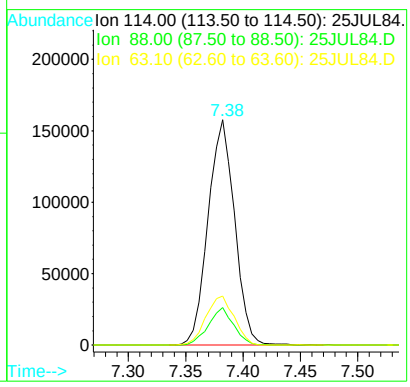


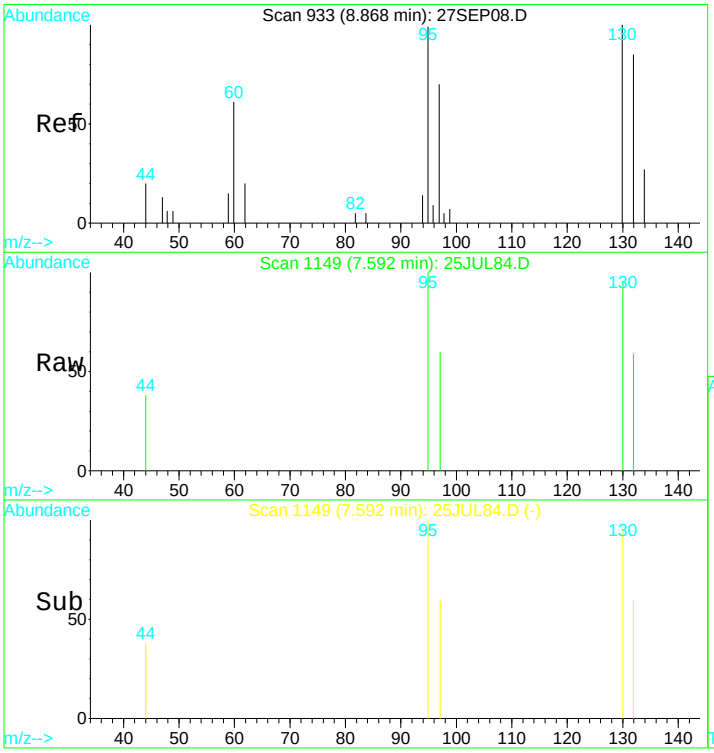


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 25JUL84.D
Acq: 26 Jul 2017 1:29 pm

Tgt Ion:114 Resp: 253846

Ion	Ratio	Lower	Upper
114	100		
88	15.8	11.7	21.7
63	23.1	16.7	30.9

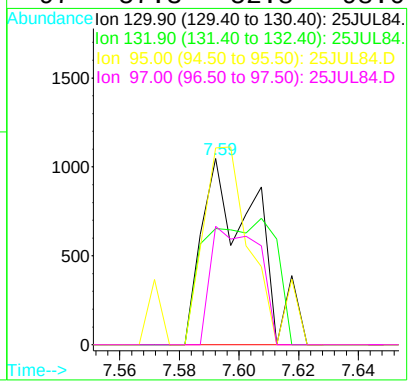


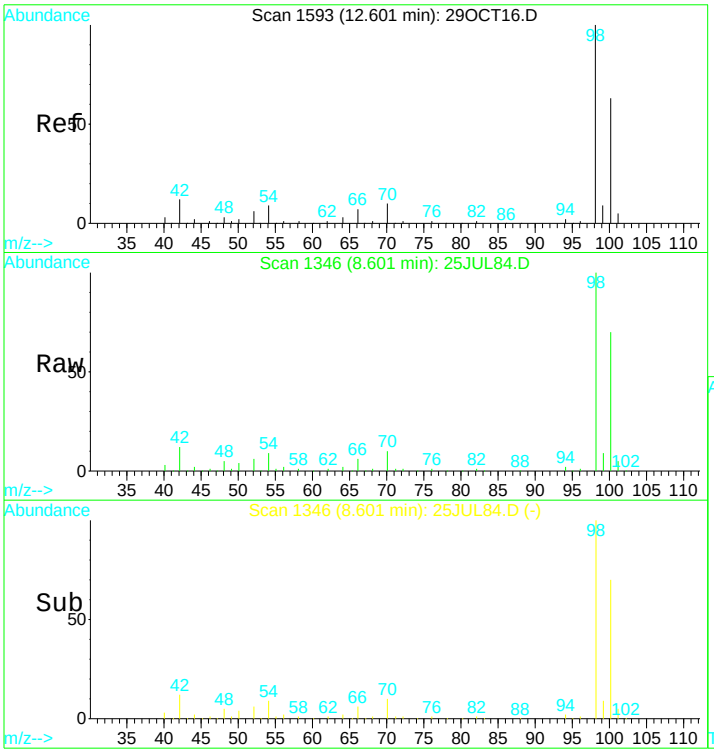


#25
Trichloroethene
Concen: 0.15 ug/L
RT: 7.59 min Scan# 1149
Delta R.T. -0.00 min
Lab File: 25JUL84.D
Acq: 26 Jul 2017 1:29 pm

Tgt Ion:130 Resp: 1303

Ion	Ratio	Lower	Upper
130	100		
132	89.6	66.1	122.7
95	97.4	86.1	159.9
97	57.3	52.8	98.0

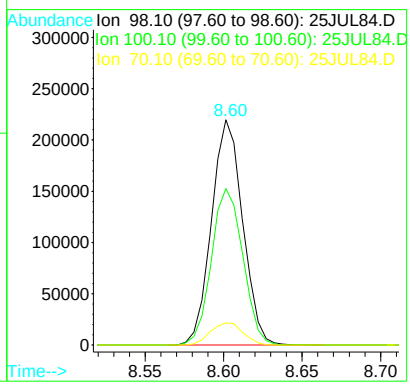


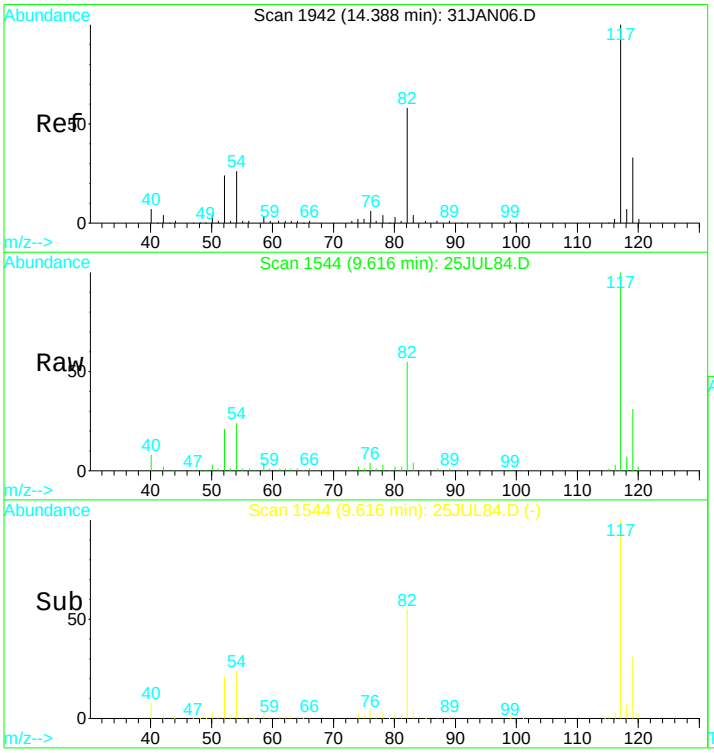


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 25JUL84.D
Acq: 26 Jul 2017 1:29 pm

Tgt Ion: 98 Resp: 303364

Ion	Ratio	Lower	Upper
98	100		
100	69.8	49.7	92.3
70	10.4	7.3	13.7

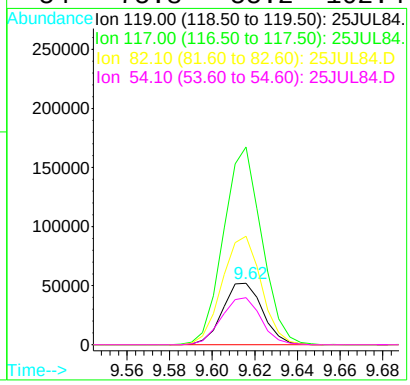


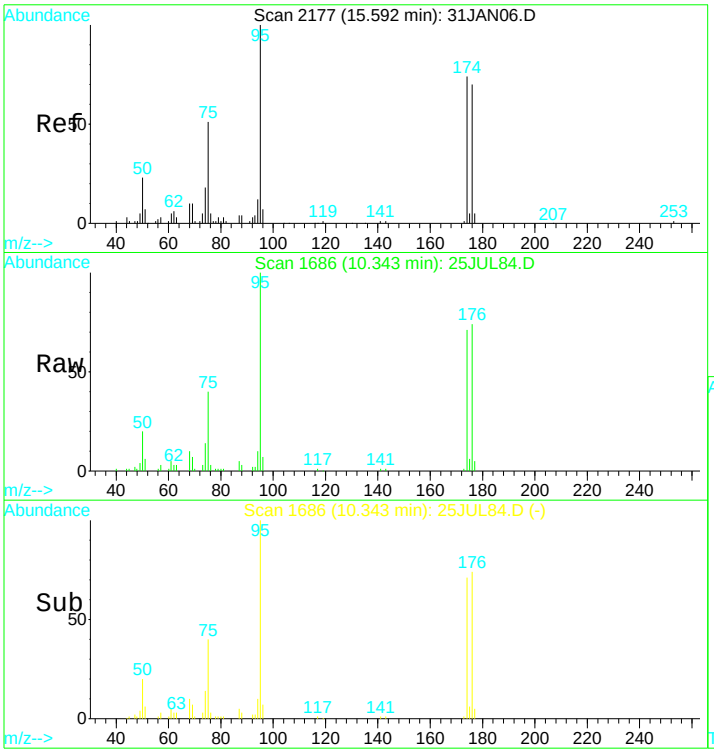


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 25JUL84.D
Acq: 26 Jul 2017 1:29 pm

Tgt Ion:119 Resp: 67984

Ion	Ratio	Lower	Upper
119	100		
117	308.2	214.5	398.4
82	172.9	117.7	218.7
54	75.8	55.2	102.4

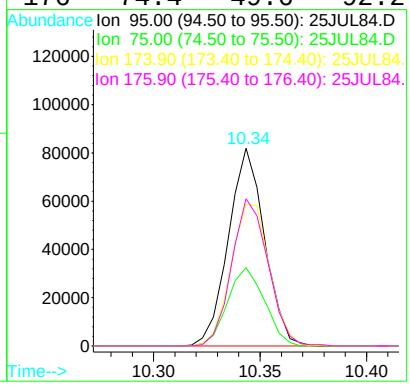




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 25JUL84.D
Acq: 26 Jul 2017 1:29 pm

Tgt Ion: 95 Resp: 97005

Ion	Ratio	Lower	Upper
95	100		
75	40.4	29.5	54.7
174	76.5	52.3	97.1
176	74.4	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL84.D Vial: 14
Acq On : 26 Jul 2017 1:29 pm Operator: MGC
Sample : 1720121-11 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 13:53 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	169045	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	253846	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	67984	10.00	ug/L	0.00

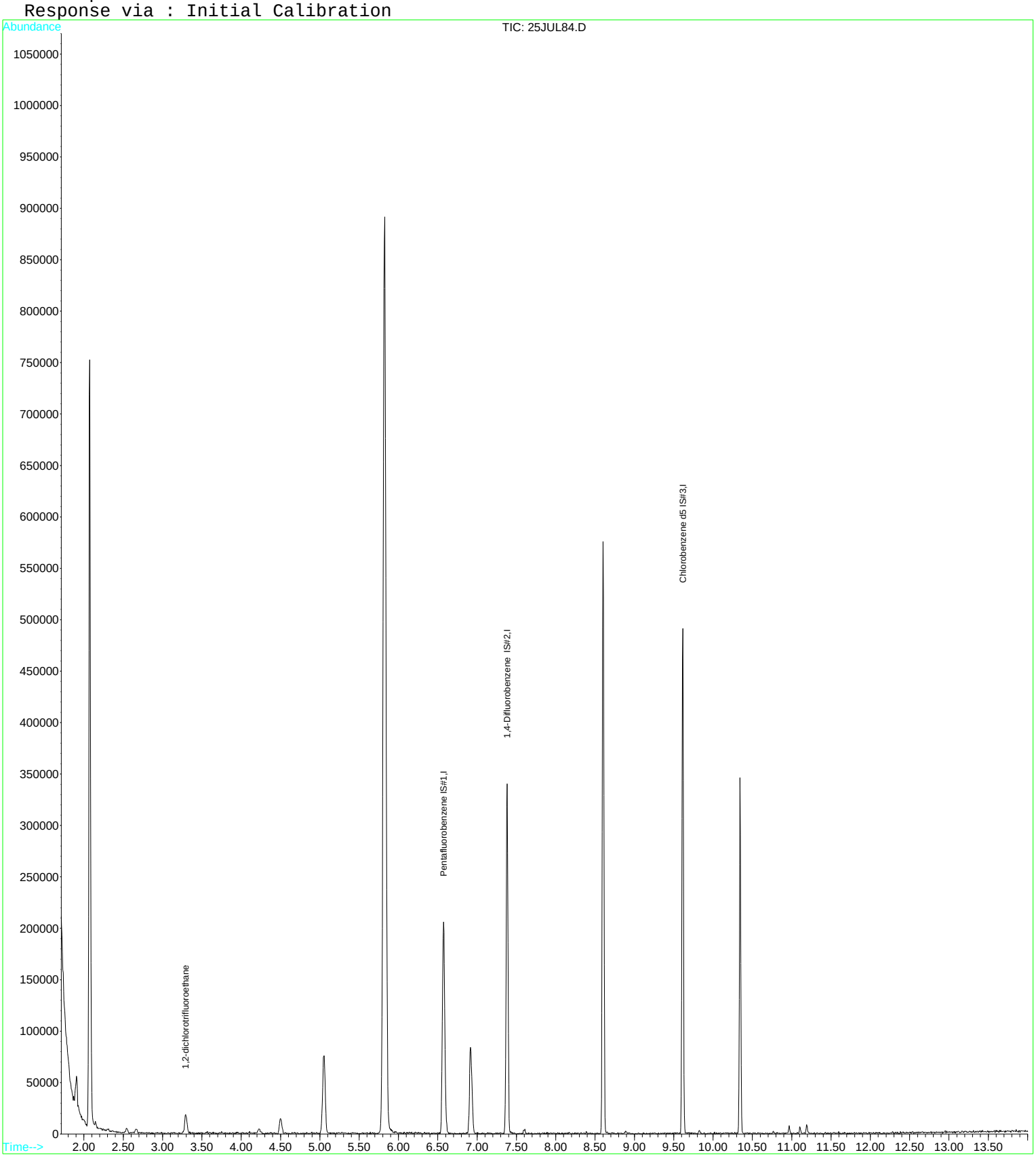
Target Compounds						Qvalue
4) 1,2-dichlorotrifluoroethan	3.29	67	12428	1.12	ug/L #	80

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL84.D Vial: 14
Acq On : 26 Jul 2017 1:29 pm Operator: MGC
Sample : 1720121-11 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 13:53 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL13.D Vial: 13
Acq On : 26 Jul 2017 6:28 pm Operator: MGC
Sample : 1720121-12 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 4:52 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	167867	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	260864	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	68013	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	52284	10.66	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 106.60%			
31) Toluene d8 SMC#2	8.60	98	307846	9.56	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 95.60%			
49) Bromofluorobenzene SMC#3	10.34	95	102445	10.09	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.90%			

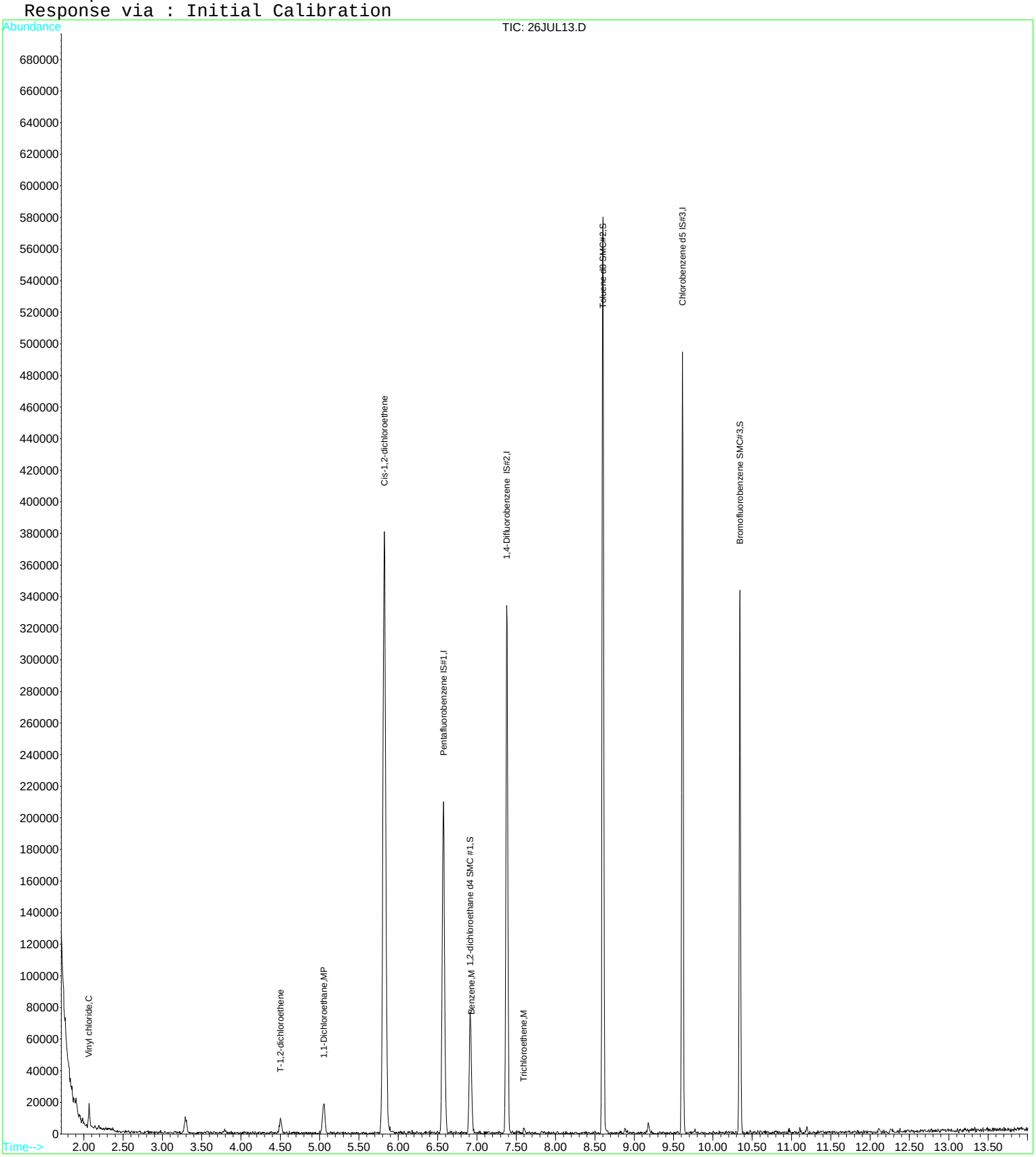
Target Compounds						Qvalue
4) Vinyl chloride	2.07	62	11306	0.90	ug/L	92
12) T-1,2-dichloroethene	4.50	96	4460	0.53	ug/L	73
13) 1,1-Dichloroethane	5.06	63	25741	1.43	ug/L	91
15) Cis-1,2-dichloroethene	5.82	96	212831	24.28	ug/L	85
23) Benzene	6.93	78	3594	0.10	ug/L #	1
25) Trichloroethene	7.59	130	839	0.09	ug/L #	70

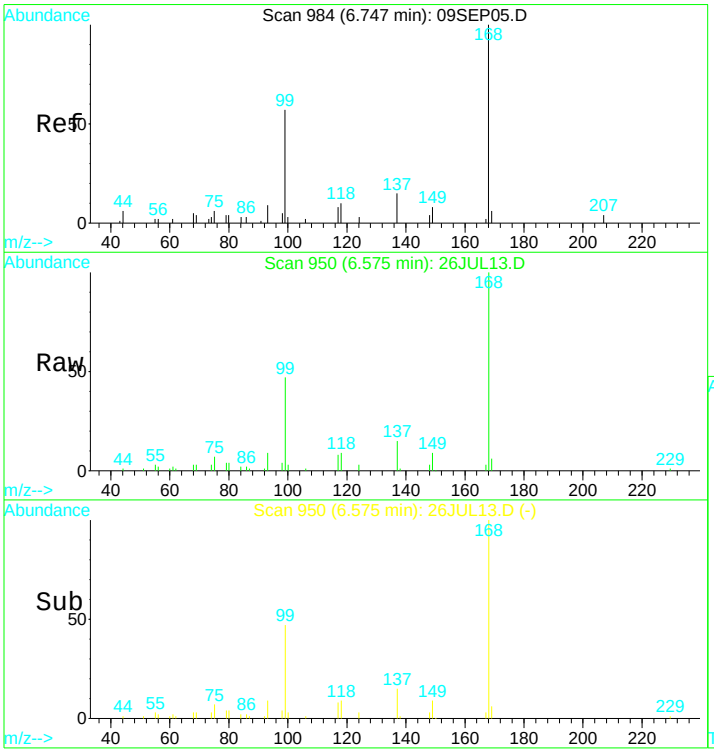
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL13.D Vial: 13
Acq On : 26 Jul 2017 6:28 pm Operator: MGC
Sample : 1720121-12 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 4:52 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

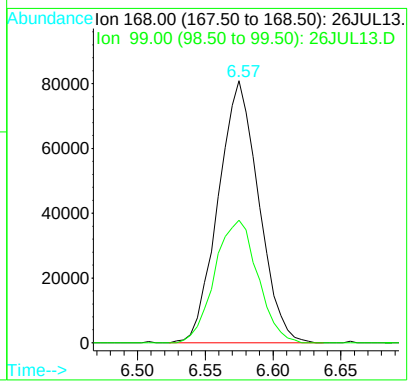


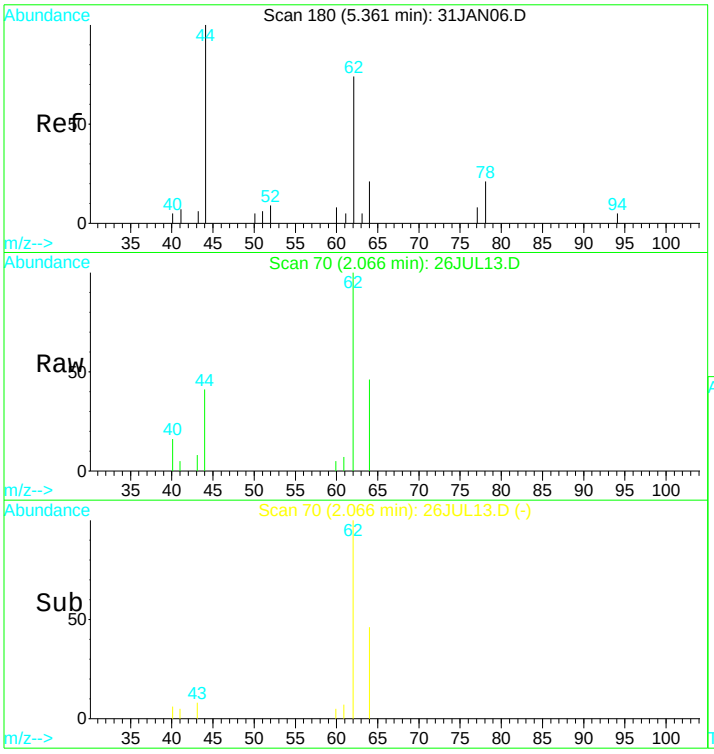


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 26JUL13.D
Acq: 26 Jul 2017 6:28 pm

Tgt Ion:168 Resp: 167867

Ion	Ratio	Lower	Upper
168	100		
99	49.6	38.7	71.9

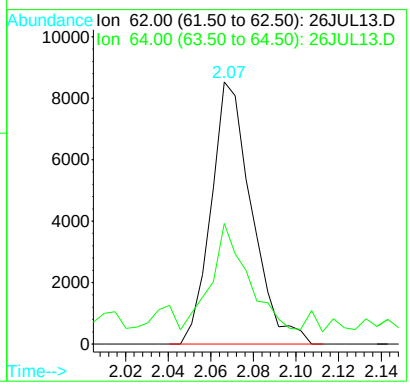


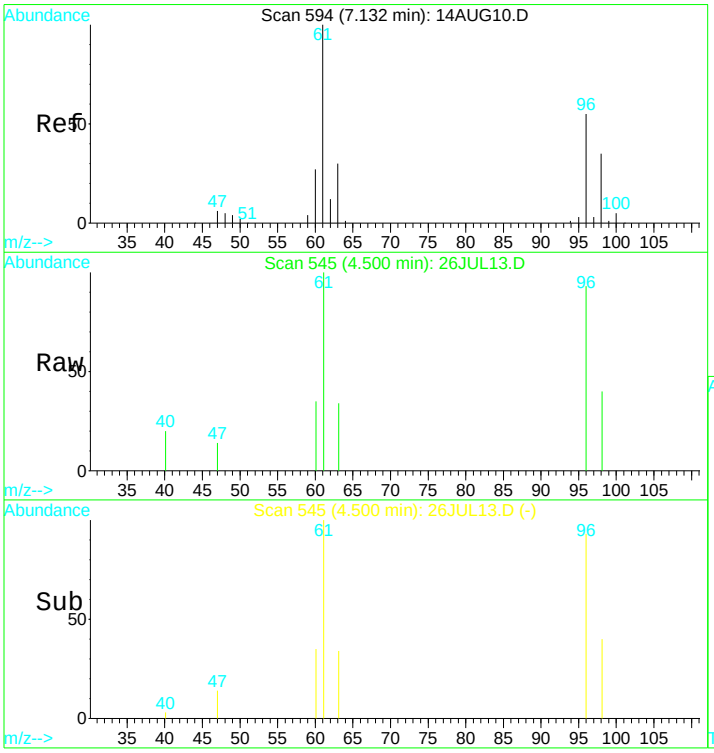


#4
Vinyl chloride
Concen: 0.90 ug/L
RT: 2.07 min Scan# 70
Delta R.T. -0.01 min
Lab File: 26JUL13.D
Acq: 26 Jul 2017 6:28 pm

Tgt Ion: 62 Resp: 11306

Ion	Ratio	Lower	Upper
62	100		
64	49.9	39.3	72.9

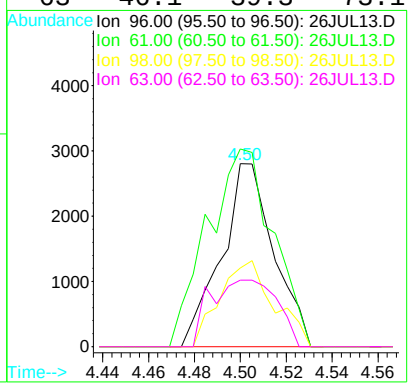


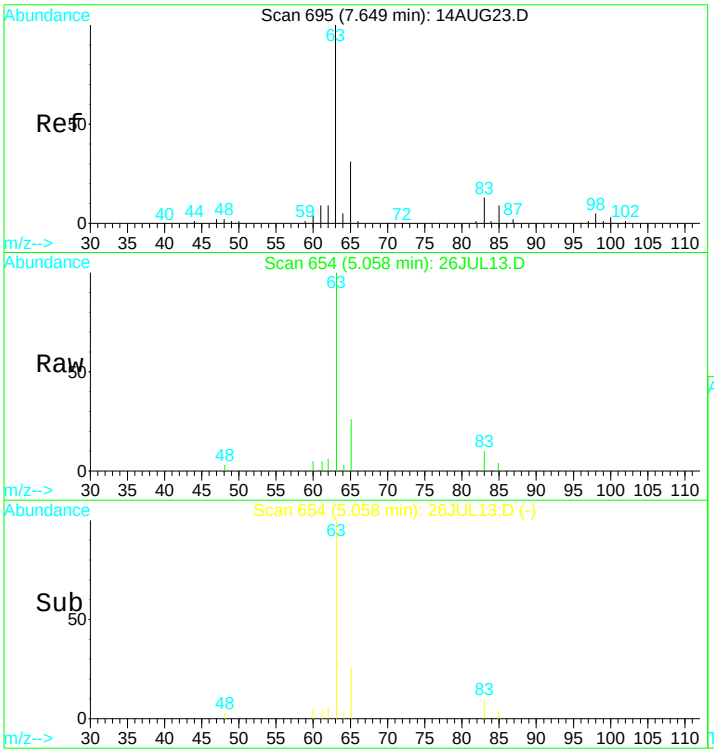


#12
T-1,2-dichloroethene
Concen: 0.53 ug/L
RT: 4.50 min Scan# 545
Delta R.T. -0.00 min
Lab File: 26JUL13.D
Acq: 26 Jul 2017 6:28 pm

Tgt Ion: 96 Resp: 4460

Ion	Ratio	Lower	Upper
96	100		
61	134.3	129.4	240.4
98	48.2	41.5	77.1
63	46.1	39.3	73.1

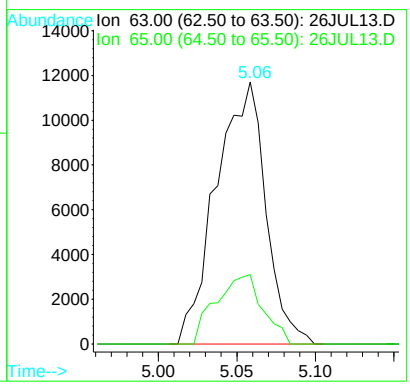


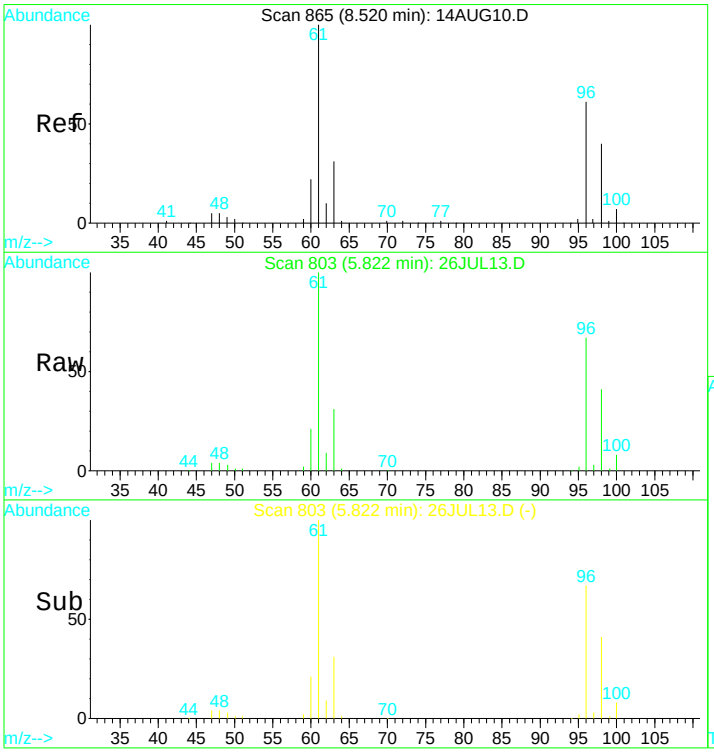


#13
1,1-Dichloroethane
Concen: 1.43 ug/L
RT: 5.06 min Scan# 654
Delta R.T. 0.01 min
Lab File: 26JUL13.D
Acq: 26 Jul 2017 6:28 pm

Tgt Ion: 63 Resp: 25741

Ion	Ratio	Lower	Upper
63	100		
65	25.1	20.8	38.6

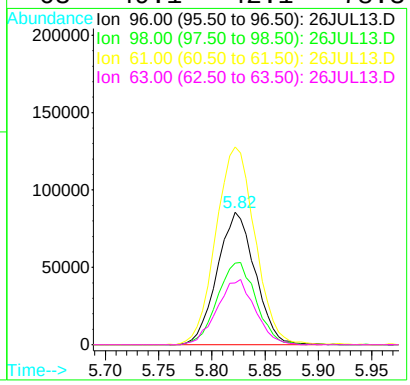


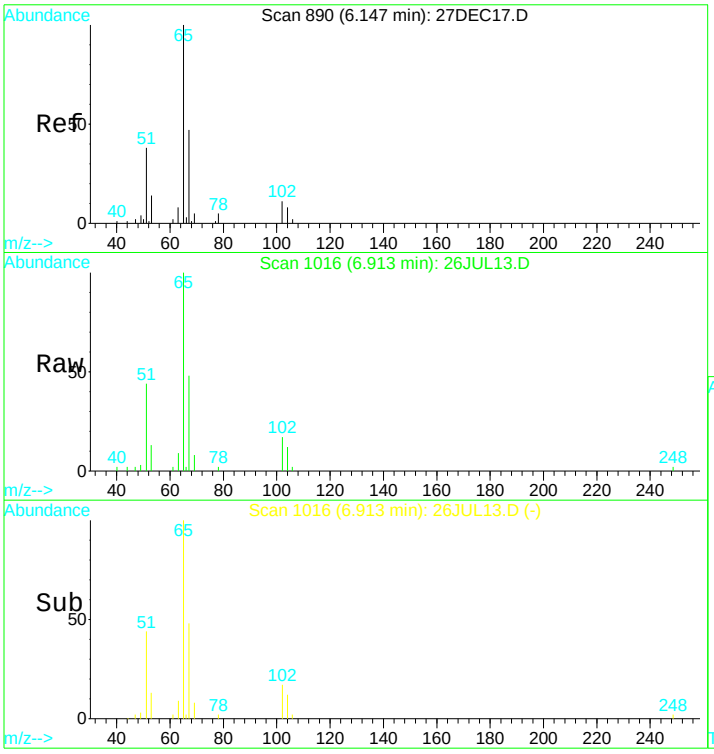


#15
Cis-1,2-dichloroethene
Concen: 24.28 ug/L
RT: 5.82 min Scan# 803
Delta R.T. -0.00 min
Lab File: 26JUL13.D
Acq: 26 Jul 2017 6:28 pm

Tgt Ion: 96 Resp: 212831

Ion	Ratio	Lower	Upper
96	100		
98	62.8	51.9	96.3
61	154.1	122.8	228.0
63	49.1	42.1	78.3

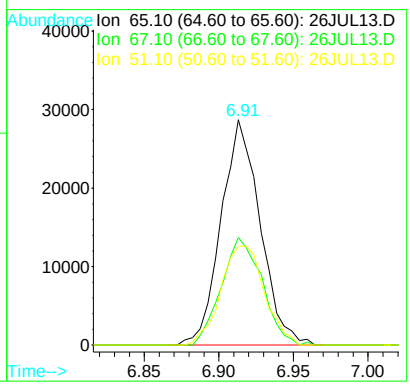


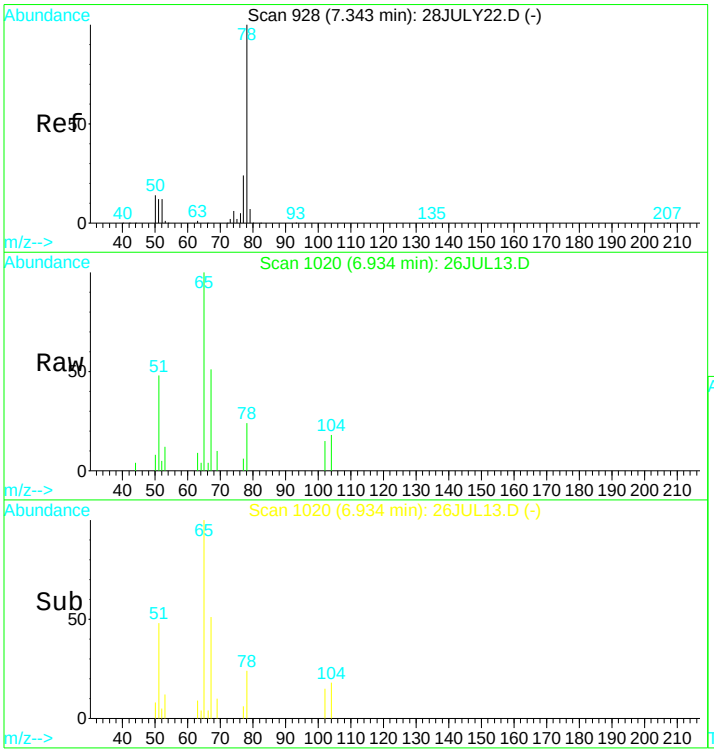


#21
1,2-dichloroethane d4 SMC #1
Concen: Below ug/L
RT: 6.91 min Scan# 1016
Delta R.T. -0.00 min
Lab File: 26JUL13.D
Acq: 26 Jul 2017 6:28 pm

Tgt Ion: 65 Resp: 52284

Ion	Ratio	Lower	Upper
65	100		
67	49.7	36.2	67.2
51	49.1	42.0	78.0

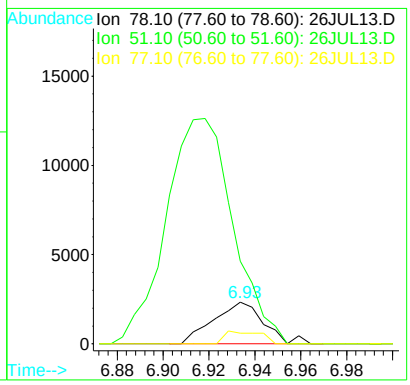


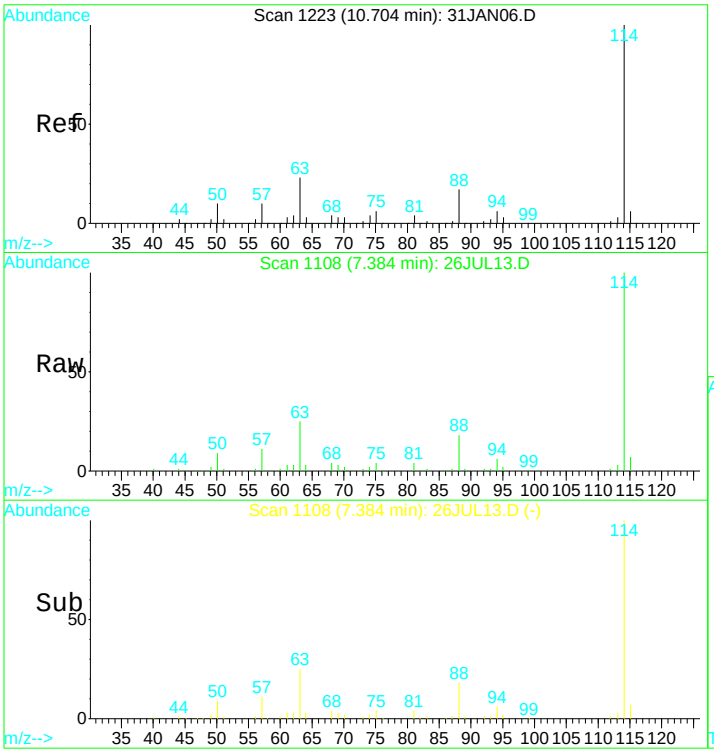


#23
Benzene
Concen: 0.10 ug/L
RT: 6.93 min Scan# 1020
Delta R.T. -0.00 min
Lab File: 26JUL13.D
Acq: 26 Jul 2017 6:28 pm

Tgt Ion: 78 Resp: 3594

Ion	Ratio	Lower	Upper
78	100		
51	714.4	114.8	213.2#
77	21.6	15.2	28.2

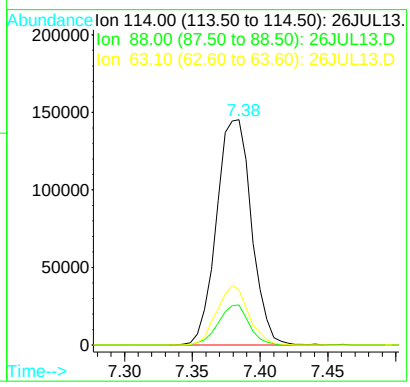


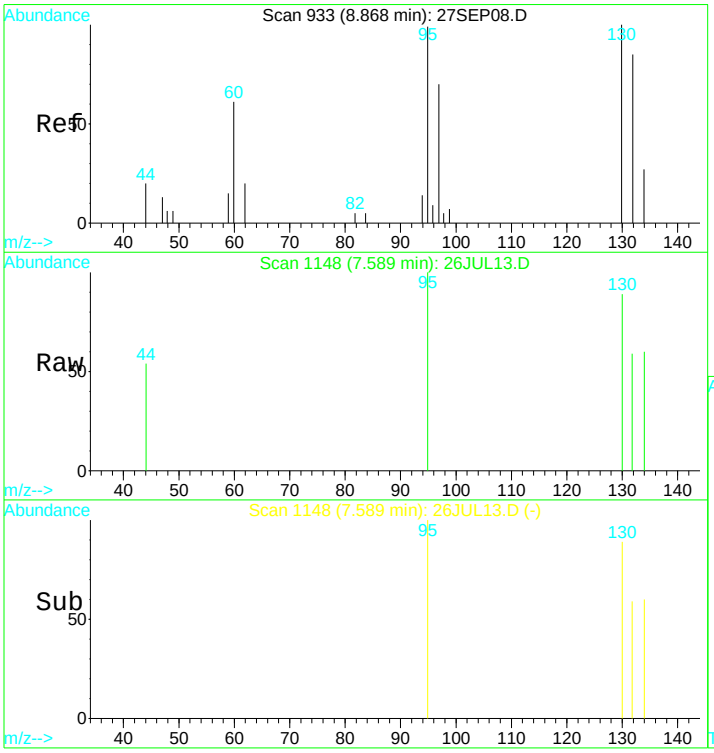


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 26JUL13.D
Acq: 26 Jul 2017 6:28 pm

Tgt Ion:114 Resp: 260864

Ion	Ratio	Lower	Upper
114	100		
88	15.7	11.7	21.7
63	24.0	16.7	30.9

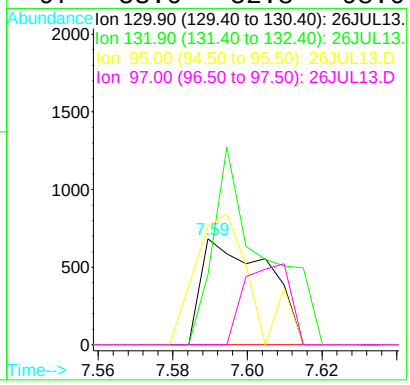


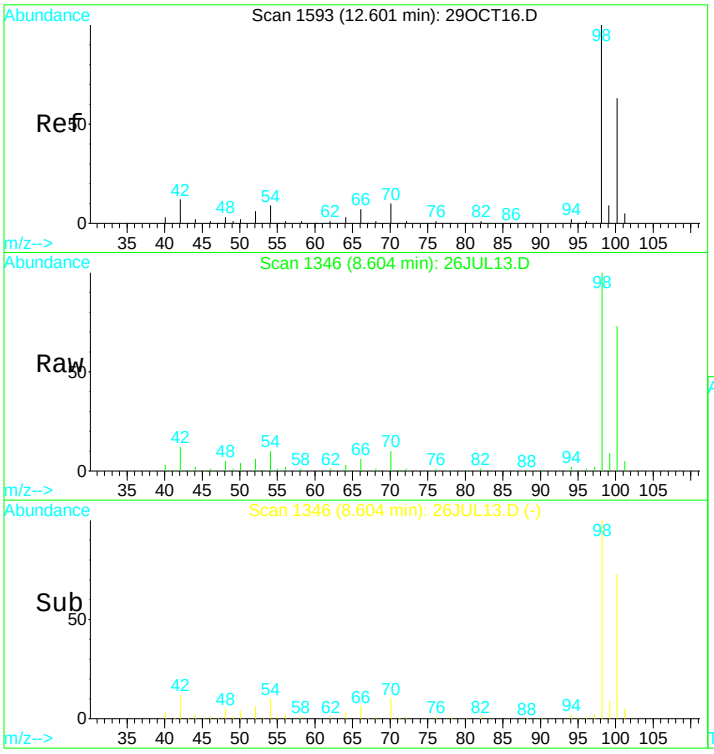


#25
Trichloroethene
Concen: 0.09 ug/L
RT: 7.59 min Scan# 1148
Delta R.T. -0.01 min
Lab File: 26JUL13.D
Acq: 26 Jul 2017 6:28 pm

Tgt Ion:130 Resp: 839

Ion	Ratio	Lower	Upper
130	100		
132	143.4	66.1	122.7#
95	105.0	86.1	159.9
97	53.0	52.8	98.0

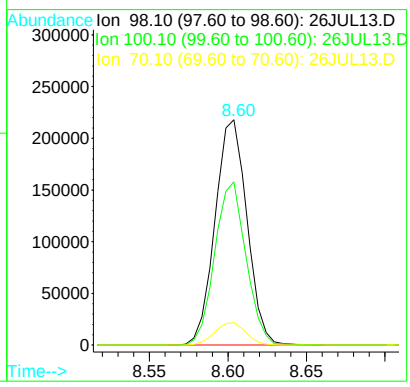


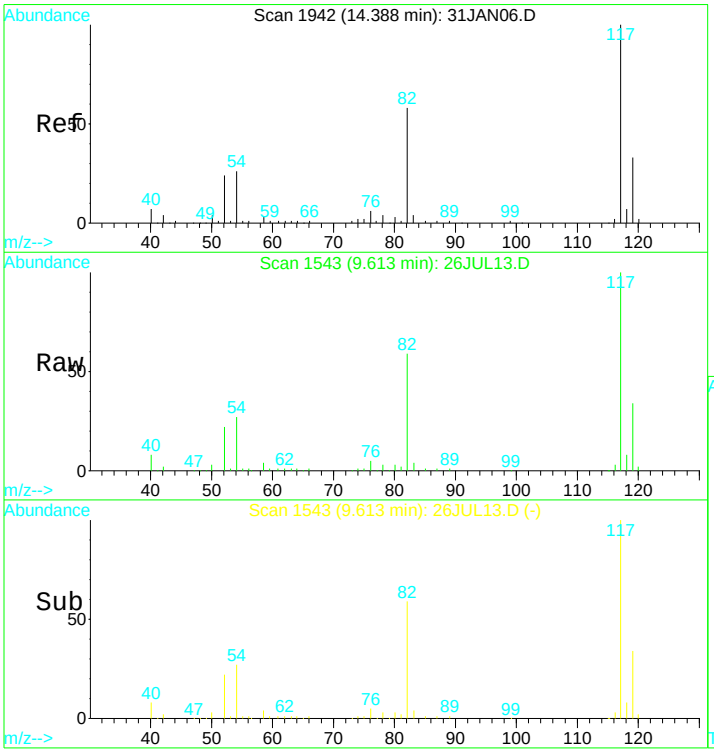


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 26JUL13.D
Acq: 26 Jul 2017 6:28 pm

Tgt Ion: 98 Resp: 307846

Ion	Ratio	Lower	Upper
98	100		
100	70.9	49.7	92.3
70	9.8	7.3	13.7

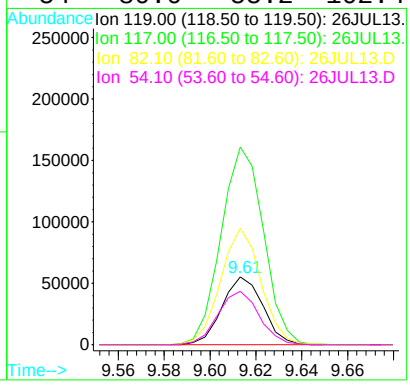


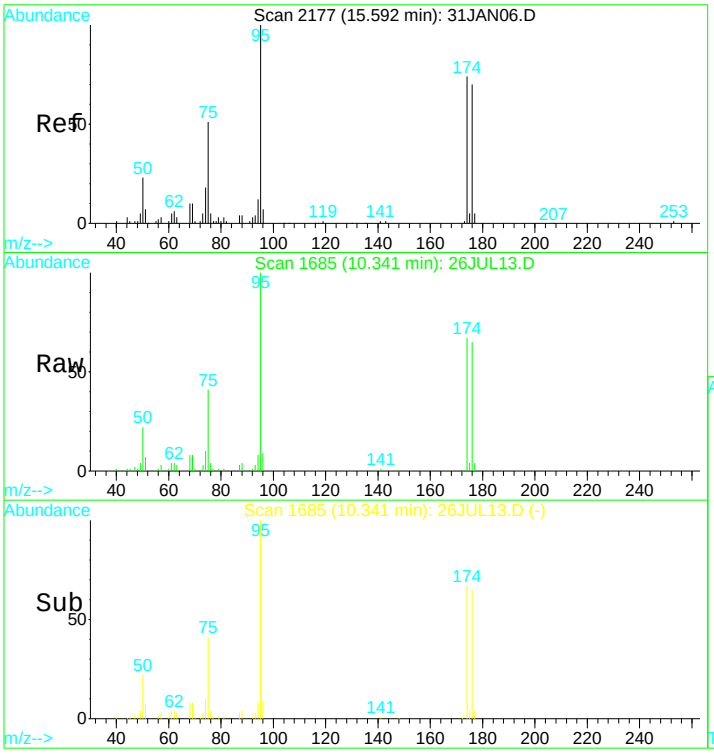


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.61 min Scan# 1543
Delta R.T. -0.00 min
Lab File: 26JUL13.D
Acq: 26 Jul 2017 6:28 pm

Tgt Ion:119 Resp: 68013

Ion	Ratio	Lower	Upper
119	100		
117	304.0	214.5	398.4
82	170.3	117.7	218.7
54	80.0	55.2	102.4

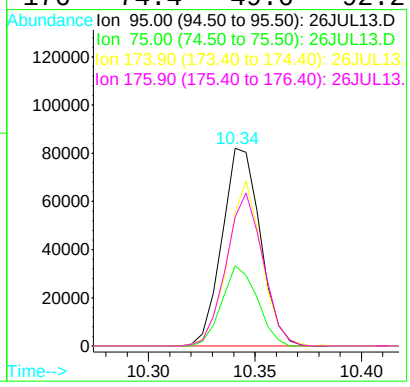




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1685
Delta R.T. -0.00 min
Lab File: 26JUL13.D
Acq: 26 Jul 2017 6:28 pm

Tgt Ion: 95 Resp: 102445

Ion	Ratio	Lower	Upper
95	100		
75	37.6	29.5	54.7
174	75.8	52.3	97.1
176	74.4	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL13.D Vial: 13
Acq On : 26 Jul 2017 6:28 pm Operator: MGC
Sample : 1720121-12 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:15 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	167867	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	260864	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	68013	10.00	ug/L	0.00

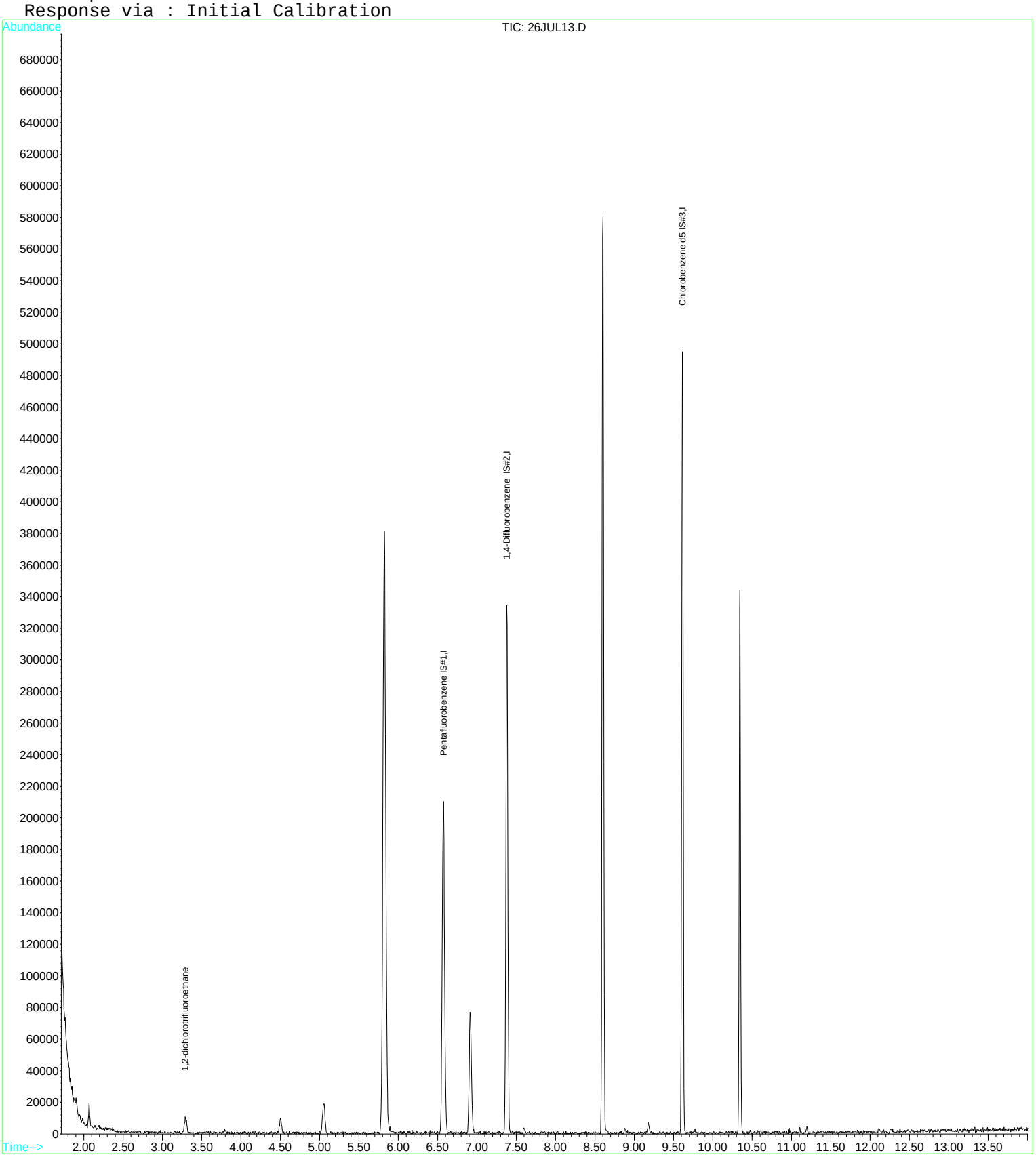
Target Compounds						Qvalue
4) 1,2-dichlorotrifluoroethan	3.29	67	7287	0.66	ug/L #	85

(#) = qualifier out of range (m) = manual integration
26JUL13.D 82605X.M Thu Jul 27 05:15:12 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL13.D Vial: 13
Acq On : 26 Jul 2017 6:28 pm Operator: MGC
Sample : 1720121-12 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:15 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL14.D Vial: 14
Acq On : 26 Jul 2017 6:51 pm Operator: MGC
Sample : 1720121-13 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 4:53 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	169471	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	255997	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	67762	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	49211	9.94	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 99.40%			
31) Toluene d8 SMC#2	8.60	98	304411	9.63	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.30%			
49) Bromofluorobenzene SMC#3	10.34	95	100068	9.89	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.90%			

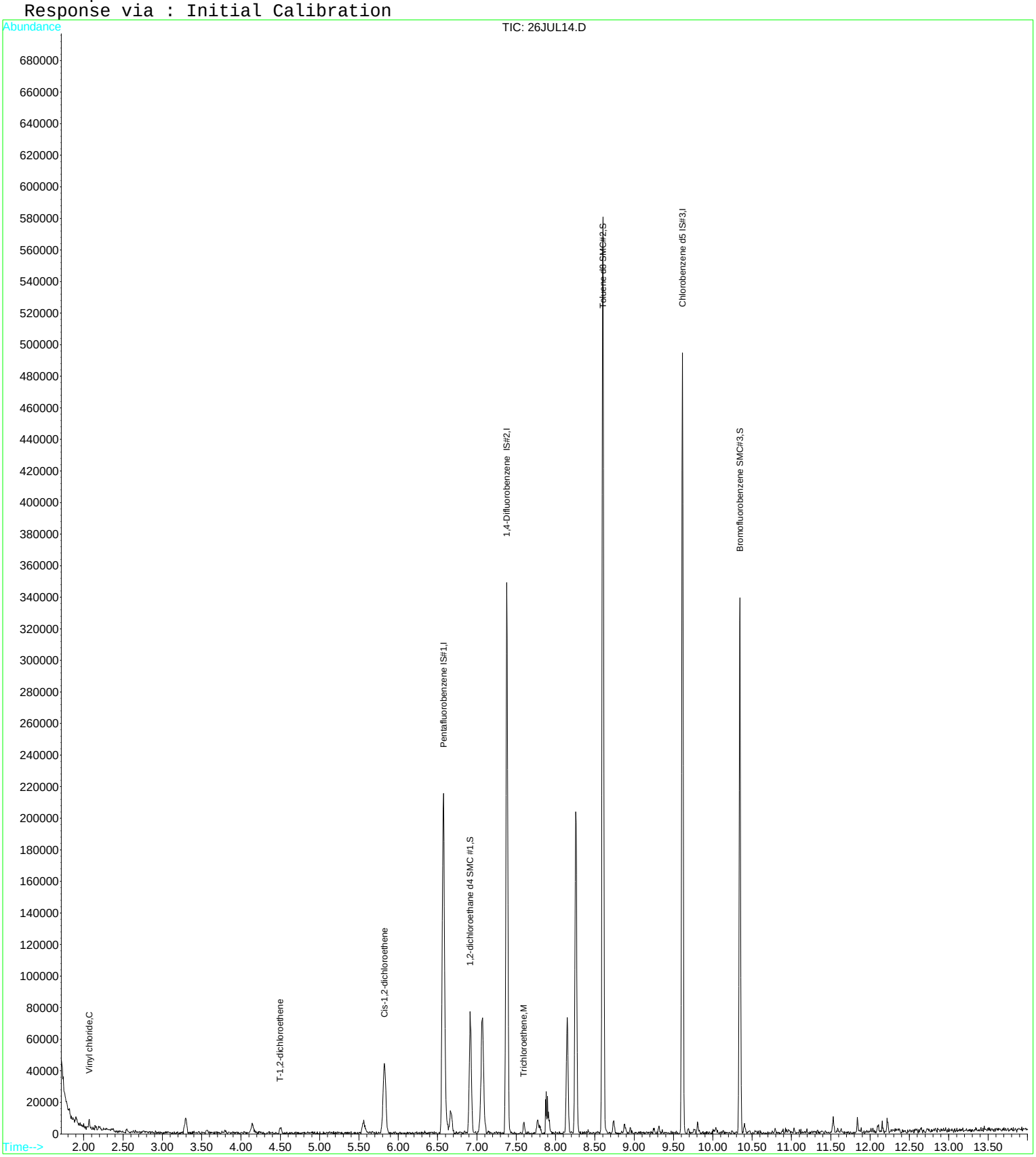
Target Compounds						Qvalue
4) Vinyl chloride	2.07	62	2832	0.22	ug/L #	9
12) T-1,2-dichloroethene	4.50	96	603	0.07	ug/L #	1
15) Cis-1,2-dichloroethene	5.82	96	23992	2.71	ug/L	90
25) Trichloroethene	7.59	130	1859	0.21	ug/L	89

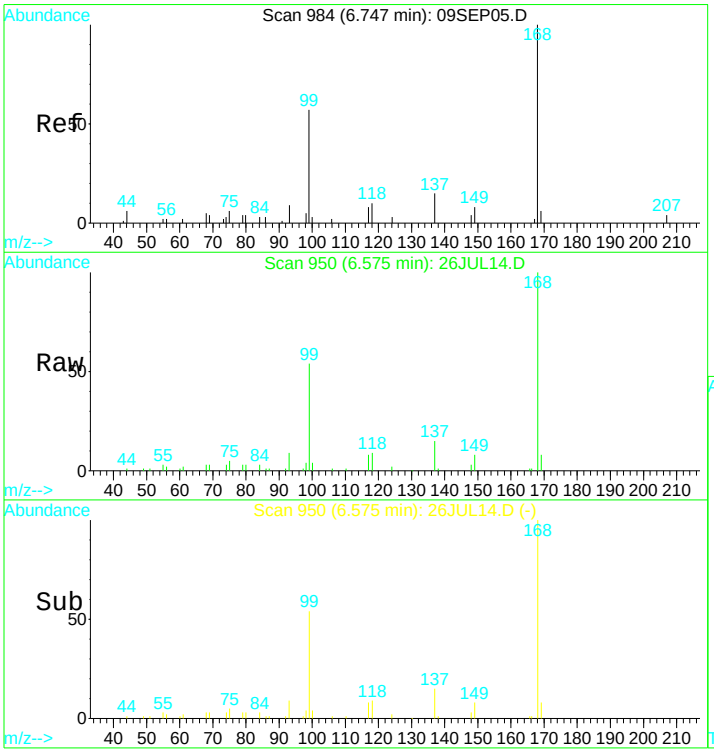
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL14.D Vial: 14
Acq On : 26 Jul 2017 6:51 pm Operator: MGC
Sample : 1720121-13 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 4:53 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

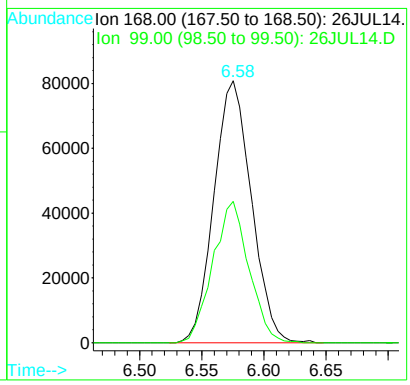


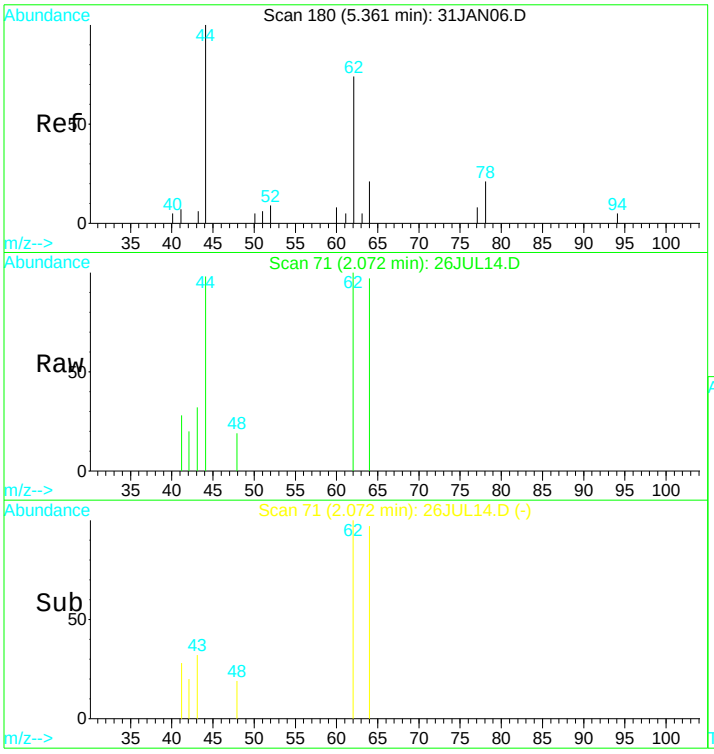


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 950
Delta R.T. -0.00 min
Lab File: 26JUL14.D
Acq: 26 Jul 2017 6:51 pm

Tgt Ion:168 Resp: 169471

Ion	Ratio	Lower	Upper
168	100		
99	52.0	38.7	71.9

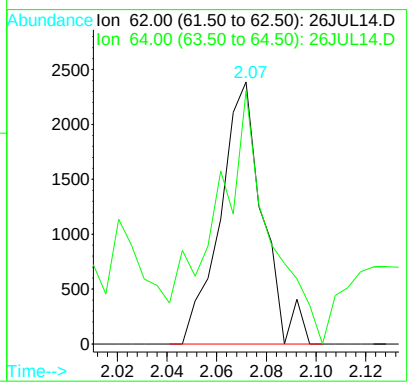


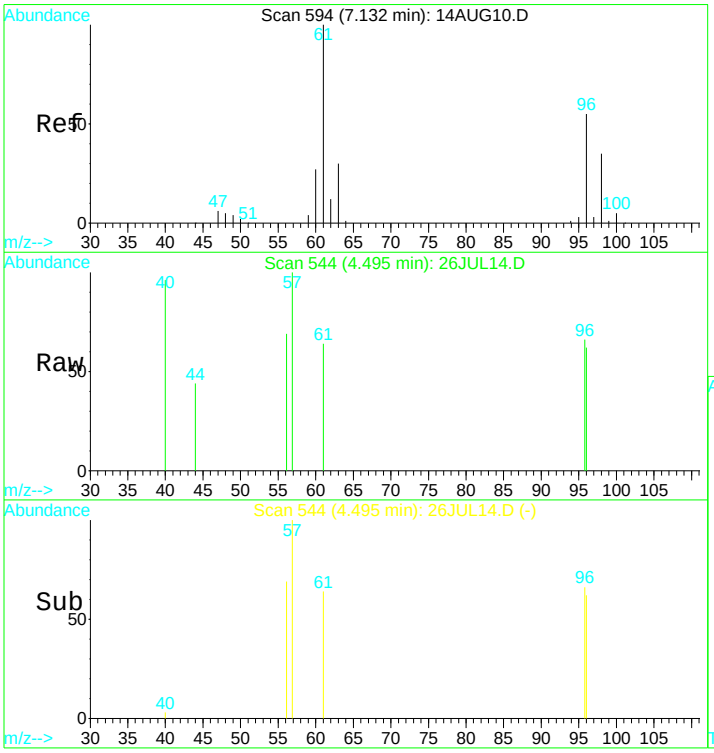


#4
Vinyl chloride
Concen: 0.22 ug/L
RT: 2.07 min Scan# 71
Delta R.T. -0.00 min
Lab File: 26JUL14.D
Acq: 26 Jul 2017 6:51 pm

Tgt Ion: 62 Resp: 2832

Ion	Ratio	Lower	Upper
62	100		
64	122.5	39.3	72.9#

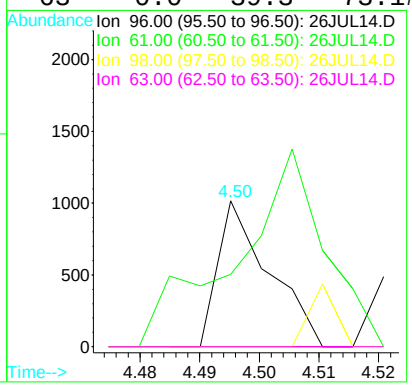


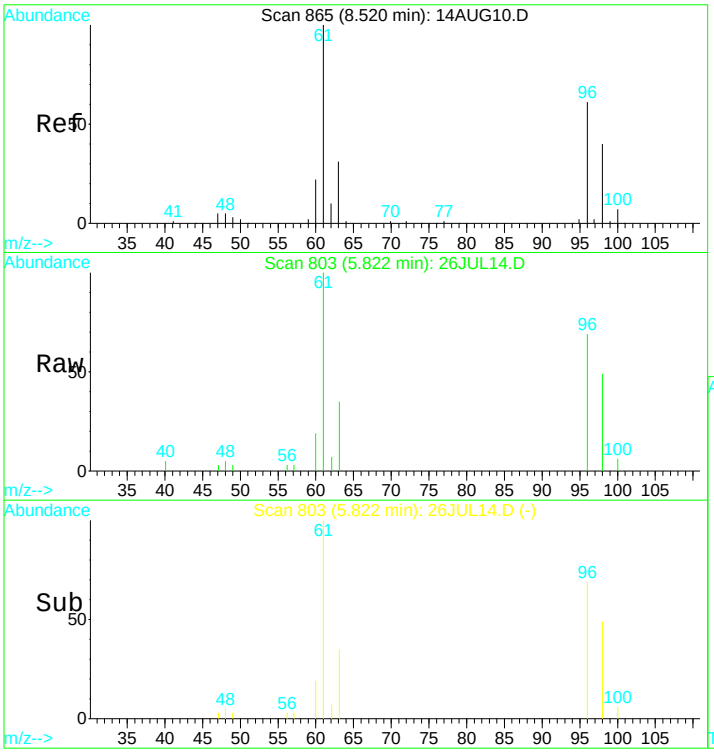


#12
T-1,2-dichloroethene
Concen: 0.07 ug/L
RT: 4.50 min Scan# 544
Delta R.T. -0.01 min
Lab File: 26JUL14.D
Acq: 26 Jul 2017 6:51 pm

Tgt Ion: 96 Resp: 603

Ion	Ratio	Lower	Upper
96	100		
61	0.0	129.4	240.4#
98	0.0	41.5	77.1#
63	0.0	39.3	73.1#

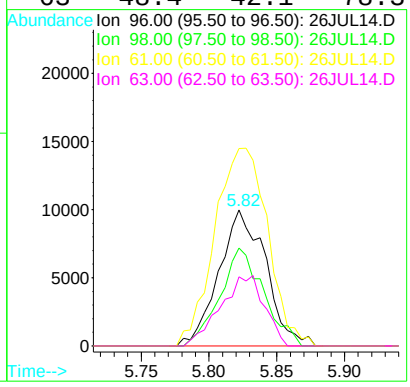


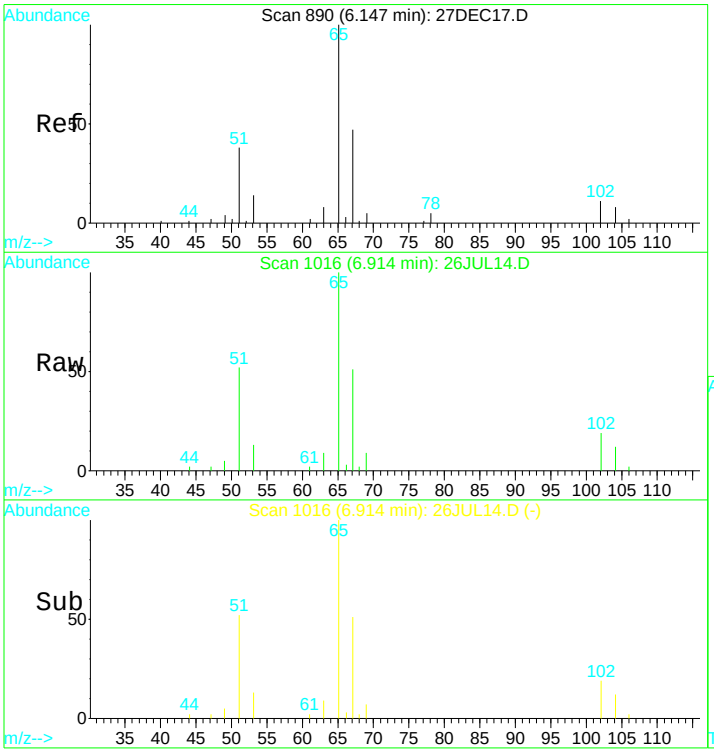


#15
Cis-1,2-dichloroethene
Concen: 2.71 ug/L
RT: 5.82 min Scan# 803
Delta R.T. -0.00 min
Lab File: 26JUL14.D
Acq: 26 Jul 2017 6:51 pm

Tgt Ion: 96 Resp: 23992

Ion	Ratio	Lower	Upper
96	100		
98	66.9	51.9	96.3
61	164.0	122.8	228.0
63	48.4	42.1	78.3

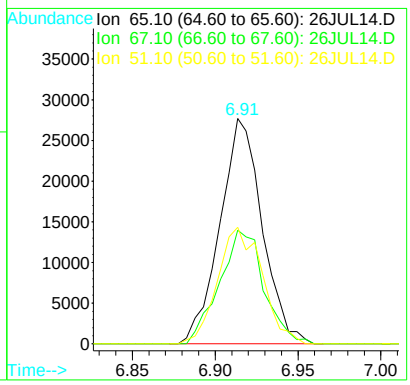


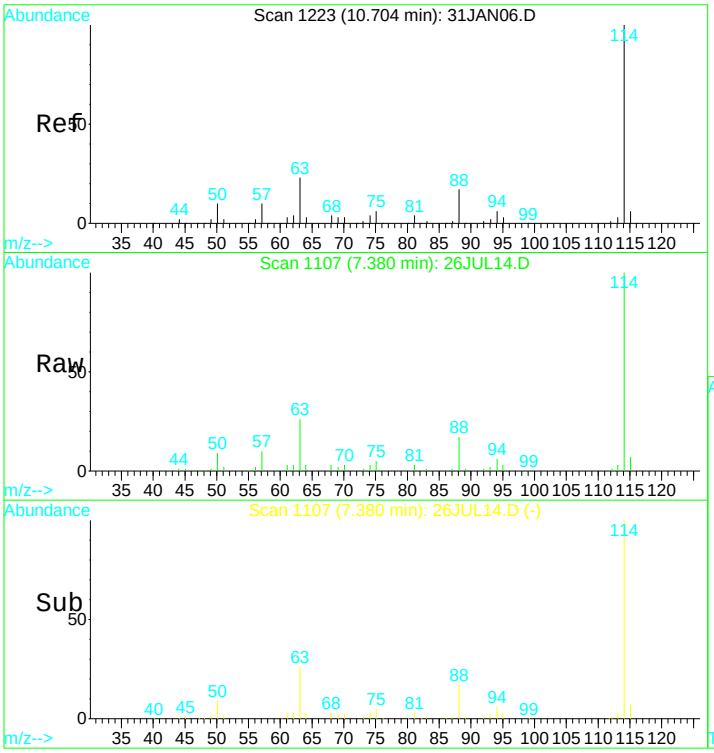


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.91 min Scan# 1016
Delta R.T. -0.00 min
Lab File: 26JUL14.D
Acq: 26 Jul 2017 6:51 pm

Tgt Ion: 65 Resp: 49211

Ion	Ratio	Lower	Upper
65	100		
67	53.0	36.2	67.2
51	54.5	42.0	78.0

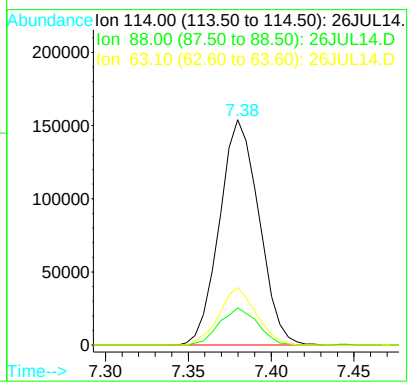


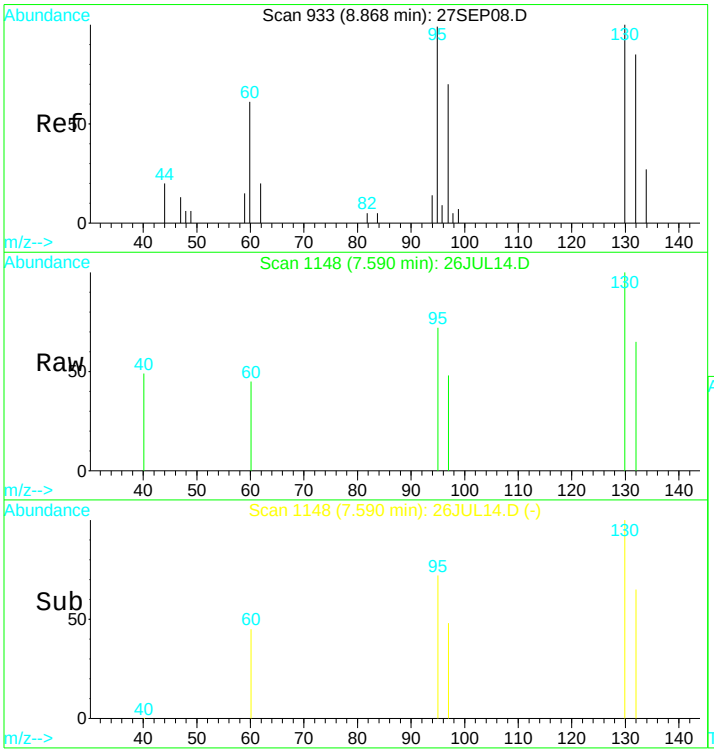


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1107
Delta R.T. -0.00 min
Lab File: 26JUL14.D
Acq: 26 Jul 2017 6:51 pm

Tgt Ion:114 Resp: 255997

Ion	Ratio	Lower	Upper
114	100		
88	16.1	11.7	21.7
63	24.0	16.7	30.9

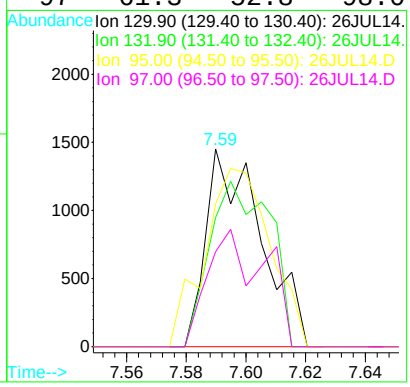


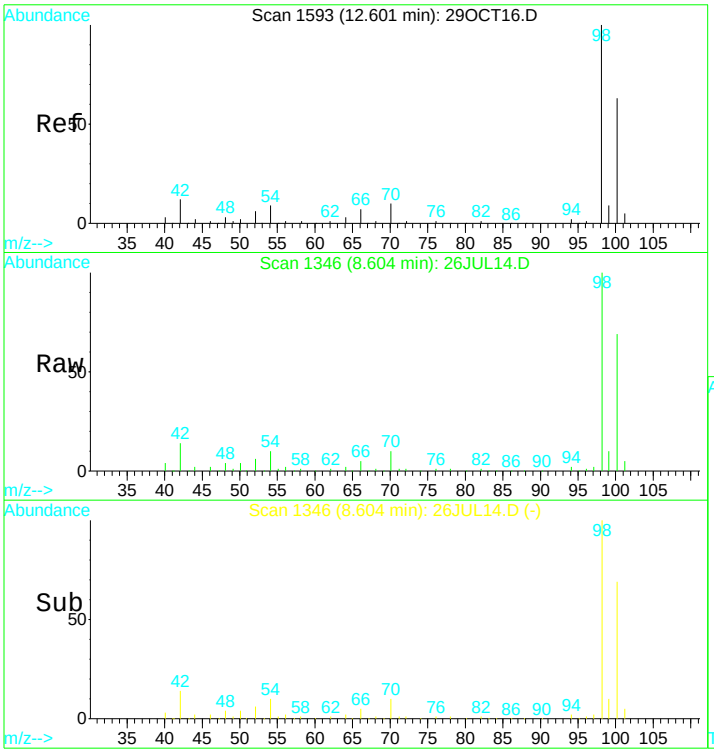


#25
Trichloroethene
Concen: 0.21 ug/L
RT: 7.59 min Scan# 1148
Delta R.T. -0.01 min
Lab File: 26JUL14.D
Acq: 26 Jul 2017 6:51 pm

Tgt Ion:130 Resp: 1859

Ion	Ratio	Lower	Upper
130	100		
132	91.7	66.1	122.7
95	107.8	86.1	159.9
97	61.3	52.8	98.0

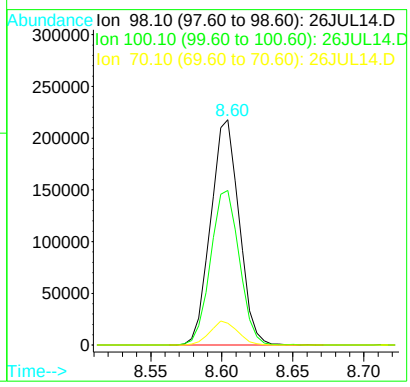


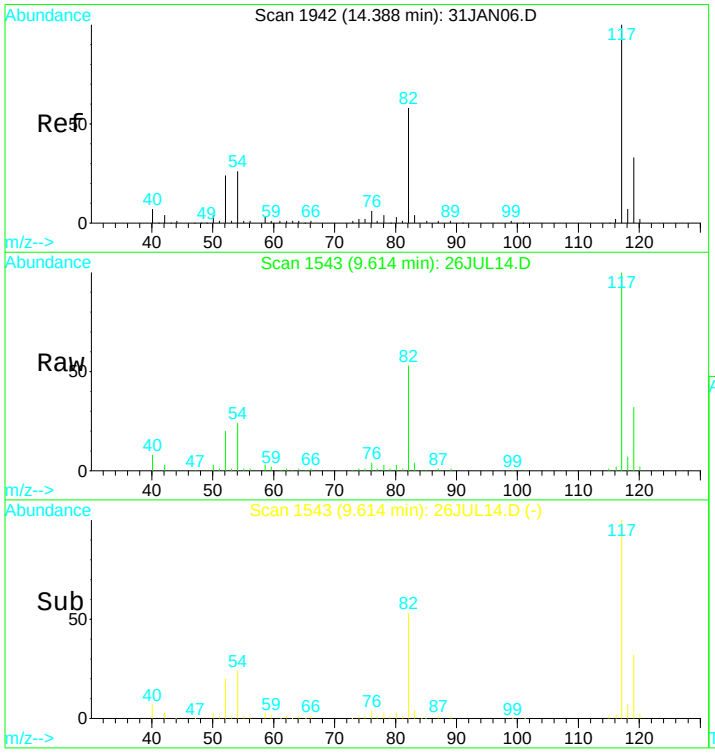


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 26JUL14.D
Acq: 26 Jul 2017 6:51 pm

Tgt Ion: 98 Resp: 304411

Ion	Ratio	Lower	Upper
98	100		
100	69.4	49.7	92.3
70	10.4	7.3	13.7

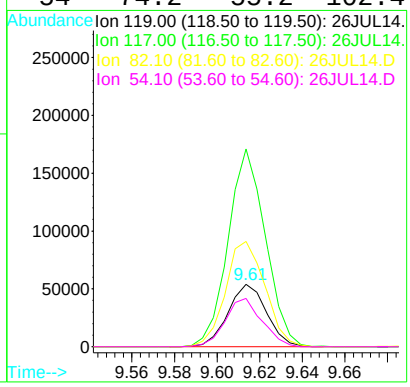


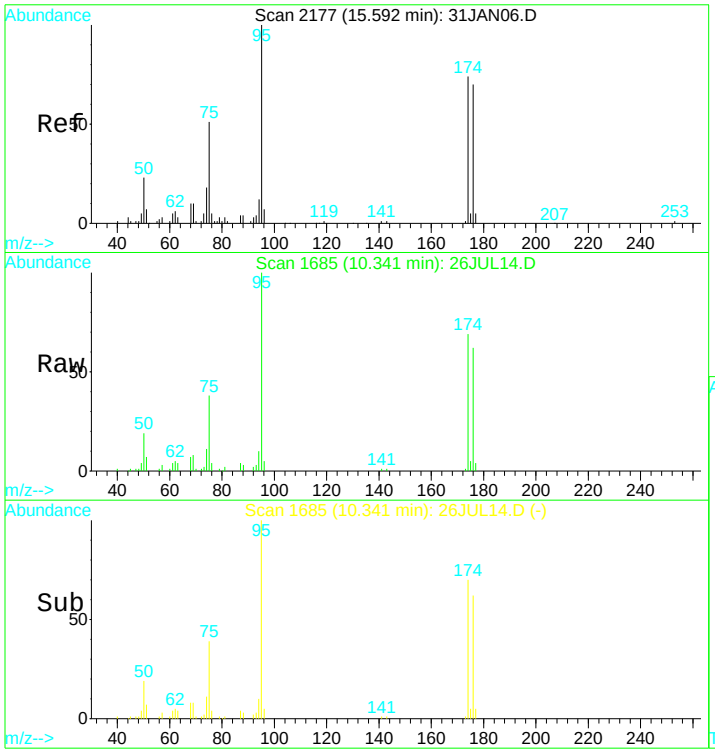


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.61 min Scan# 1543
Delta R.T. -0.00 min
Lab File: 26JUL14.D
Acq: 26 Jul 2017 6:51 pm

Tgt Ion:119 Resp: 67762

Ion	Ratio	Lower	Upper
119	100		
117	307.4	214.5	398.4
82	173.3	117.7	218.7
54	74.2	55.2	102.4

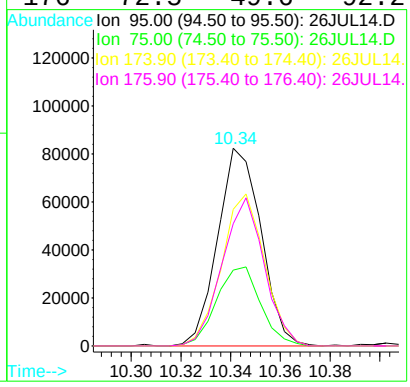




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1685
Delta R.T. -0.00 min
Lab File: 26JUL14.D
Acq: 26 Jul 2017 6:51 pm

Tgt Ion: 95 Resp: 100068

Ion	Ratio	Lower	Upper
95	100		
75	40.6	29.5	54.7
174	76.2	52.3	97.1
176	72.5	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL14.D Vial: 14
Acq On : 26 Jul 2017 6:51 pm Operator: MGC
Sample : 1720121-13 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:16 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	169471	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	255997	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	67762	10.00	ug/L	0.00

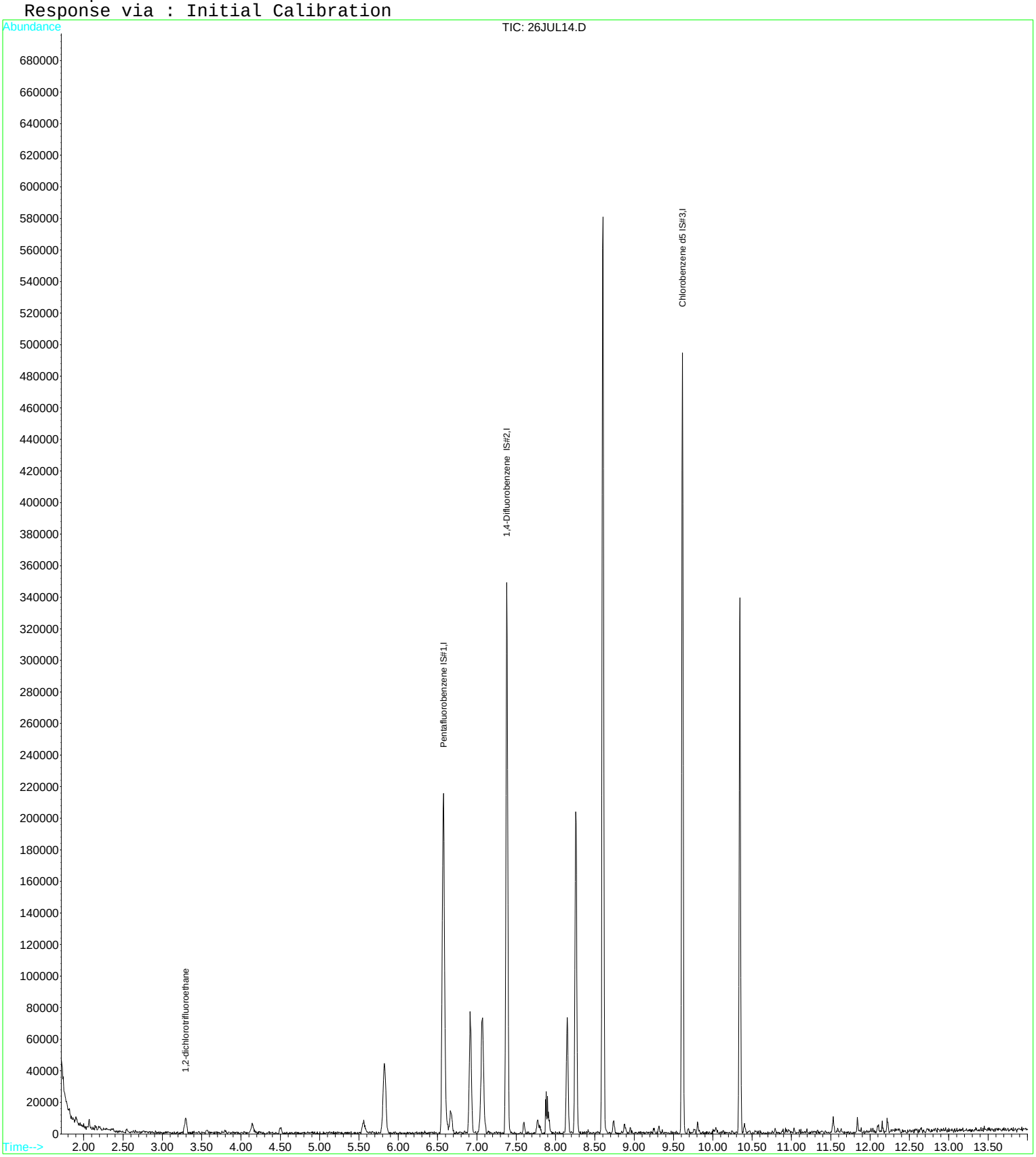
Target Compounds						Qvalue
4) 1,2-dichlorotrifluoroethan	3.30	67	5772	0.52	ug/L #	70

(#) = qualifier out of range (m) = manual integration
26JUL14.D 82605X.M Thu Jul 27 05:16:11 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL14.D Vial: 14
Acq On : 26 Jul 2017 6:51 pm Operator: MGC
Sample : 1720121-13 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:16 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL15.D Vial: 15
Acq On : 26 Jul 2017 7:14 pm Operator: MGC
Sample : 1720121-14 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 4:53 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	157906	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	238702	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	65286	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	47033	10.20	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 102.00%			
31) Toluene d8 SMC#2	8.60	98	289094	9.81	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.10%			
49) Bromofluorobenzene SMC#3	10.34	95	95879	9.84	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.40%			

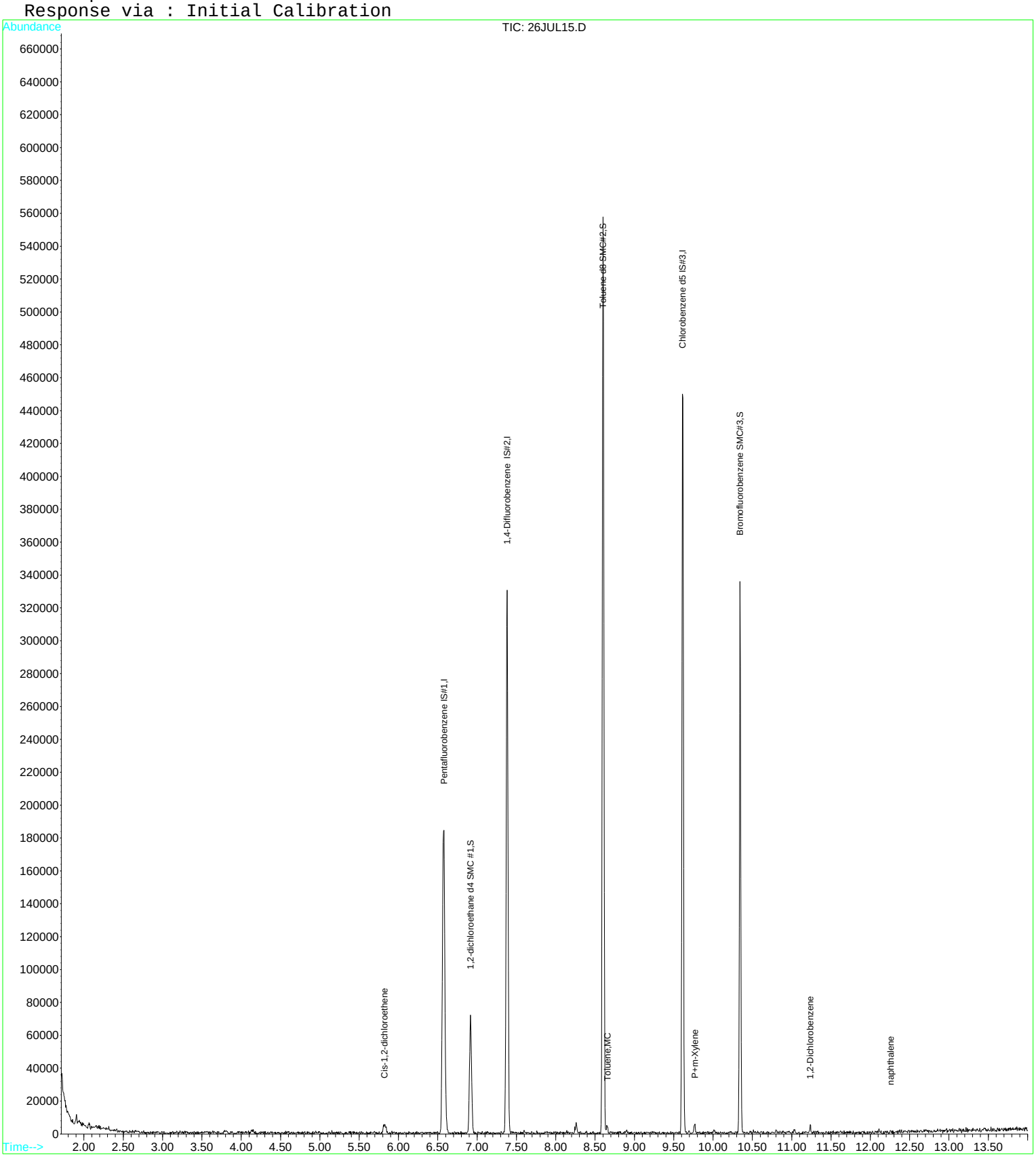
Target Compounds						Qvalue
15) Cis-1,2-dichloroethene	5.82	96	3351	0.41	ug/L	89
32) Toluene	8.66	92	1784	0.09	ug/L #	93
43) P+m-Xylene	9.77	106	2033	0.13	ug/L #	90
63) 1,2-Dichlorobenzene	11.23	146	1761	0.13	ug/L #	92
68) naphthalene	12.26	128	1043	0.10	ug/L	100

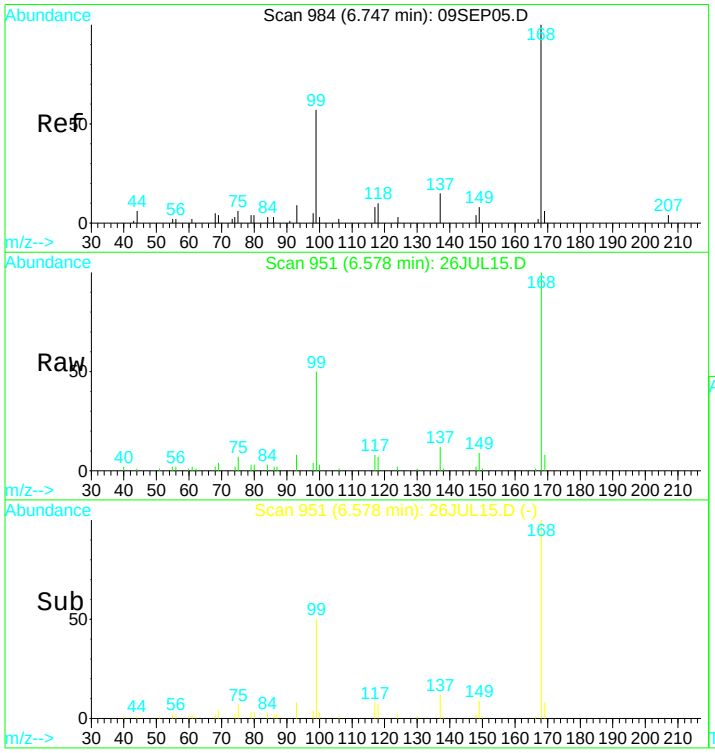
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL15.D Vial: 15
Acq On : 26 Jul 2017 7:14 pm Operator: MGC
Sample : 1720121-14 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 4:53 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

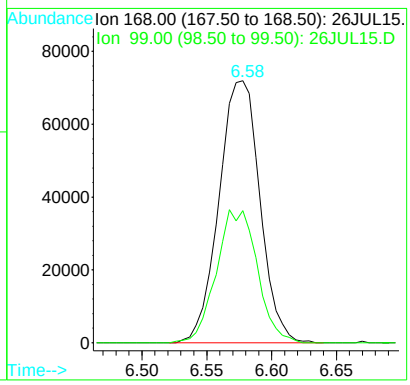


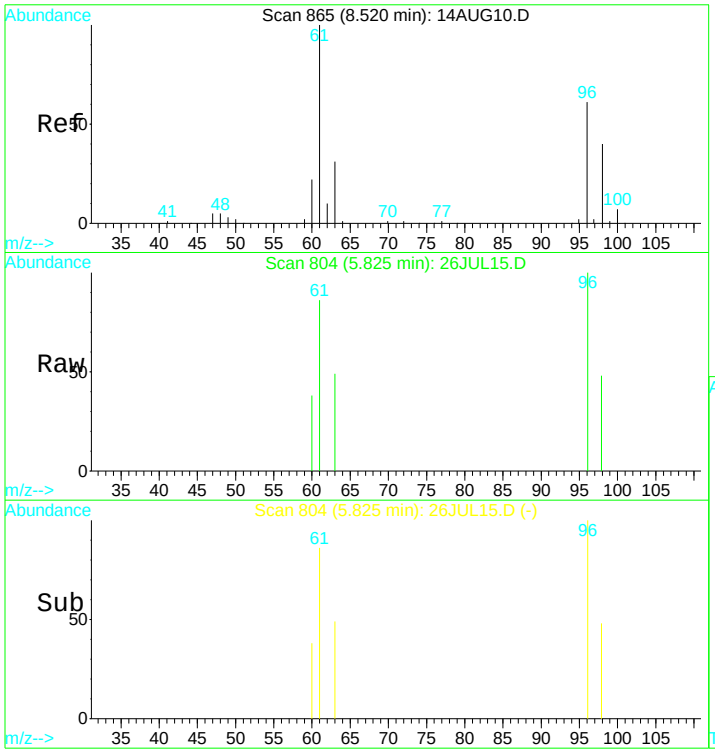


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 951
Delta R.T. 0.00 min
Lab File: 26JUL15.D
Acq: 26 Jul 2017 7:14 pm

Tgt Ion:168 Resp: 157906

Ion	Ratio	Lower	Upper
168	100		
99	50.6	38.7	71.9

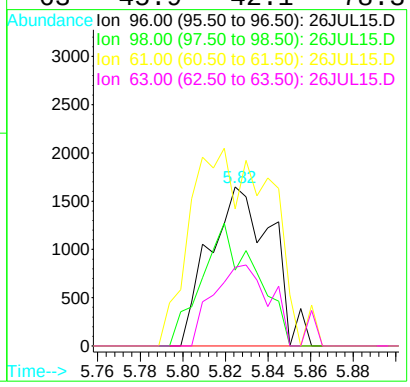


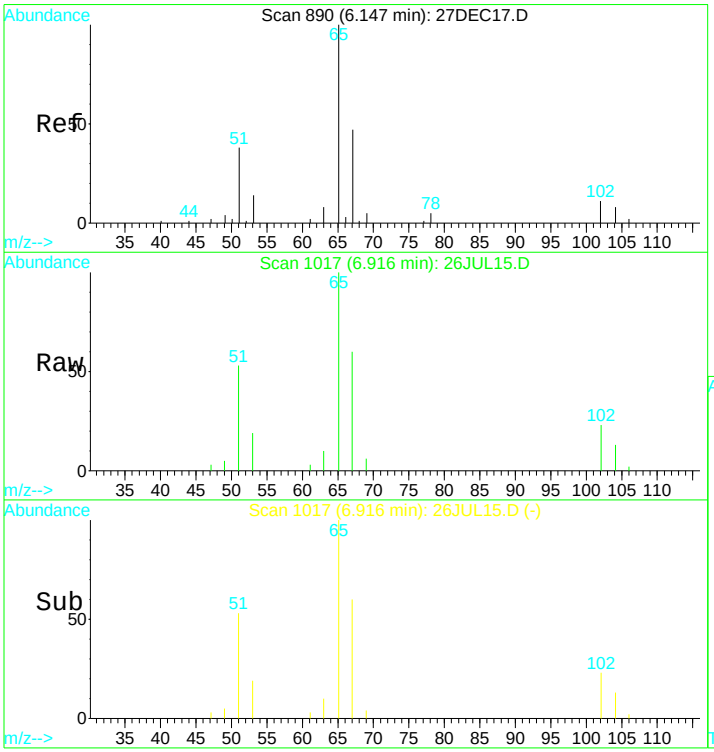


#15
Cis-1,2-dichloroethene
Concen: 0.41 ug/L
RT: 5.82 min Scan# 804
Delta R.T. 0.00 min
Lab File: 26JUL15.D
Acq: 26 Jul 2017 7:14 pm

Tgt Ion: 96 Resp: 3351

Ion	Ratio	Lower	Upper
96	100		
98	66.5	51.9	96.3
61	161.7	122.8	228.0
63	45.9	42.1	78.3

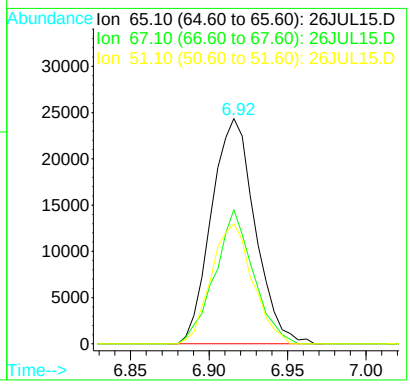


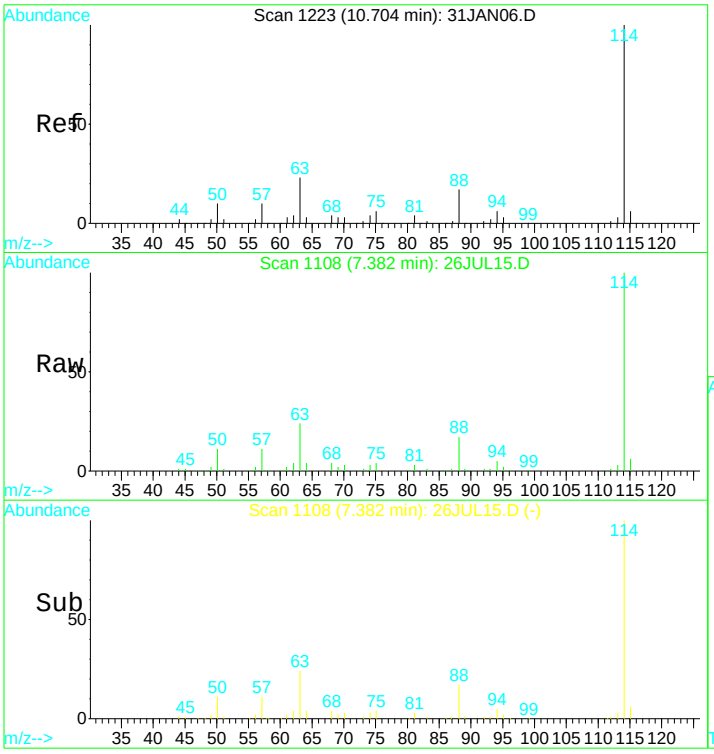


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1017
Delta R.T. 0.00 min
Lab File: 26JUL15.D
Acq: 26 Jul 2017 7:14 pm

Tgt Ion: 65 Resp: 47033

Ion	Ratio	Lower	Upper
65	100		
67	52.6	36.2	67.2
51	50.5	42.0	78.0

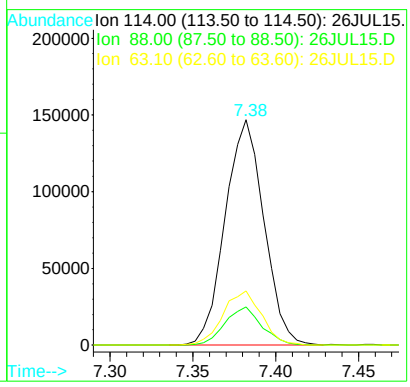


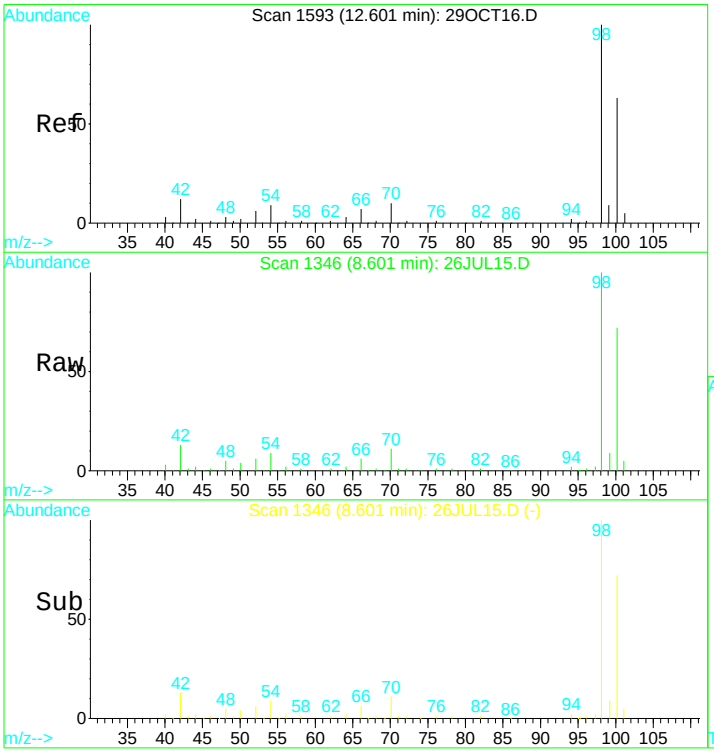


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 26JUL15.D
Acq: 26 Jul 2017 7:14 pm

Tgt Ion:114 Resp: 238702

Ion	Ratio	Lower	Upper
114	100		
88	16.1	11.7	21.7
63	23.9	16.7	30.9

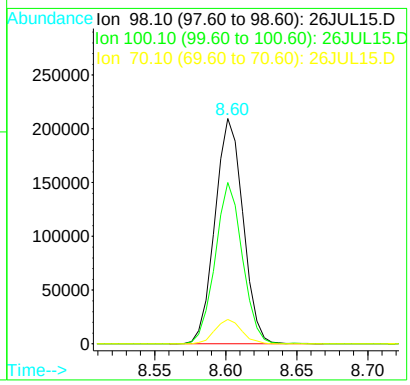


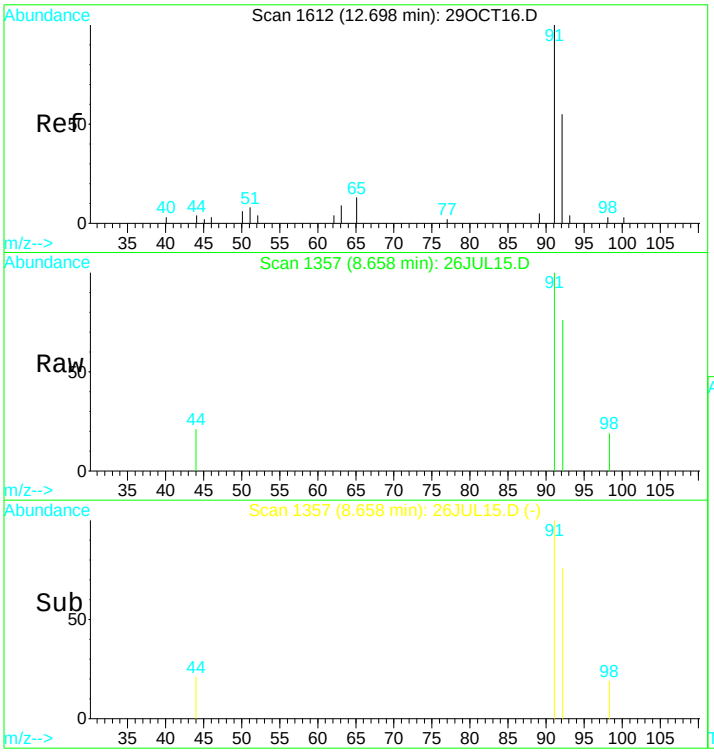


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 26JUL15.D
Acq: 26 Jul 2017 7:14 pm

Tgt Ion: 98 Resp: 289094

Ion	Ratio	Lower	Upper
98	100		
100	69.2	49.7	92.3
70	10.3	7.3	13.7

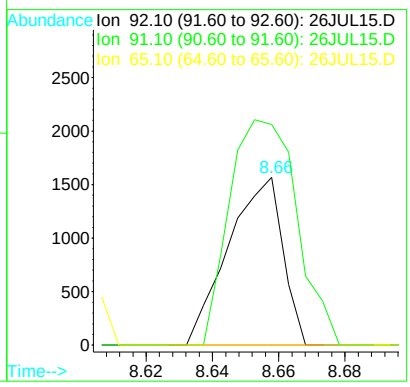


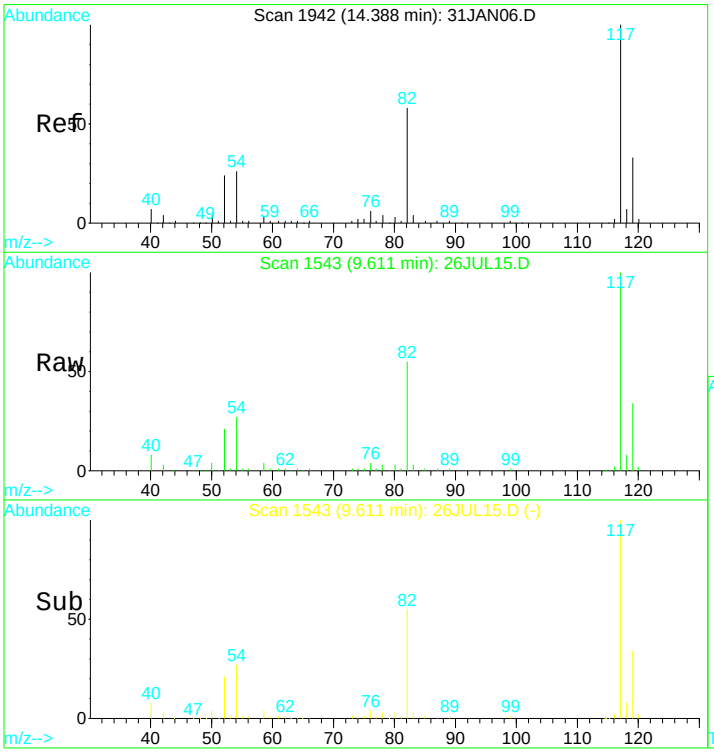


#32
Toluene
Concen: 0.09 ug/L
RT: 8.66 min Scan# 1357
Delta R.T. 0.01 min
Lab File: 26JUL15.D
Acq: 26 Jul 2017 7:14 pm

Tgt Ion: 92 Resp: 1784

Ion	Ratio	Lower	Upper
92	100		
91	166.9	122.6	227.6
65	15.8	16.5	30.7#

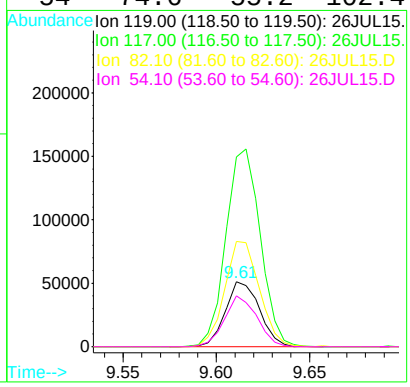


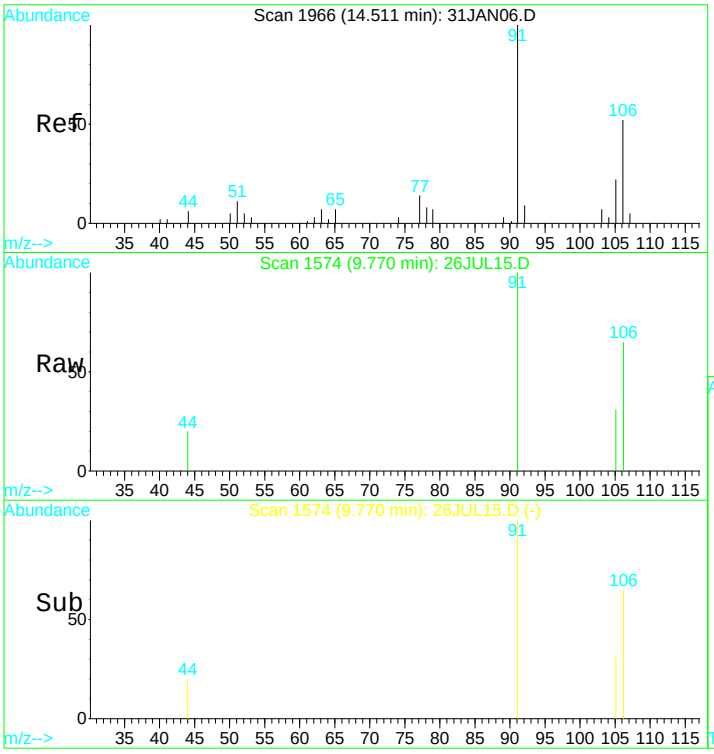


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.61 min Scan# 1543
Delta R.T. -0.00 min
Lab File: 26JUL15.D
Acq: 26 Jul 2017 7:14 pm

Tgt Ion:119 Resp: 65286

Ion	Ratio	Lower	Upper
119	100		
117	306.1	214.5	398.4
82	164.5	117.7	218.7
54	74.6	55.2	102.4

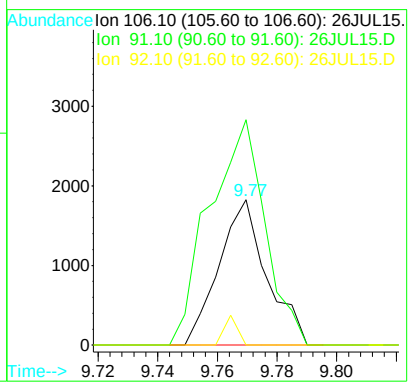


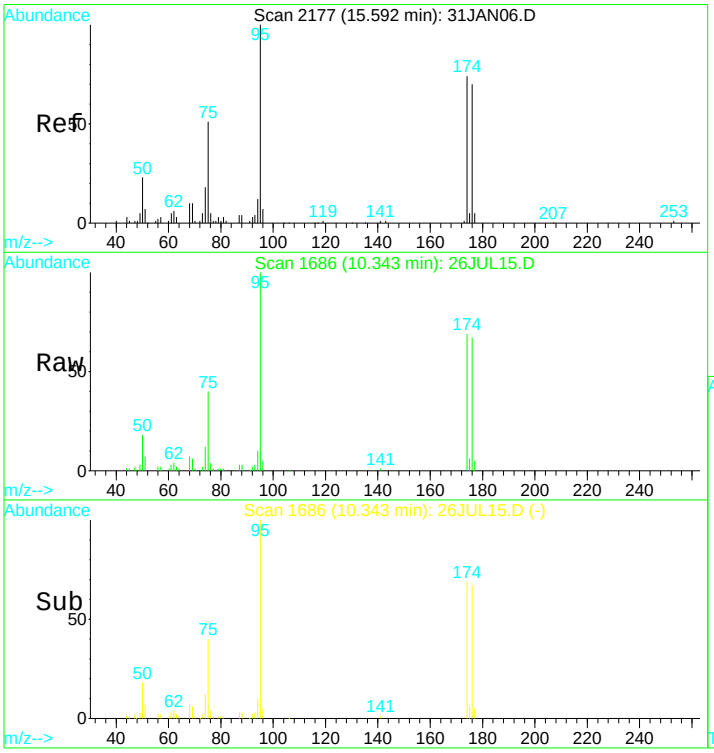


#43
P+m-Xylene
Concen: 0.13 ug/L
RT: 9.77 min Scan# 1574
Delta R.T. 0.00 min
Lab File: 26JUL15.D
Acq: 26 Jul 2017 7:14 pm

Tgt Ion:106 Resp: 2033

Ion	Ratio	Lower	Upper
106	100		
91	179.8	135.0	250.6
92	5.7	10.3	19.1#

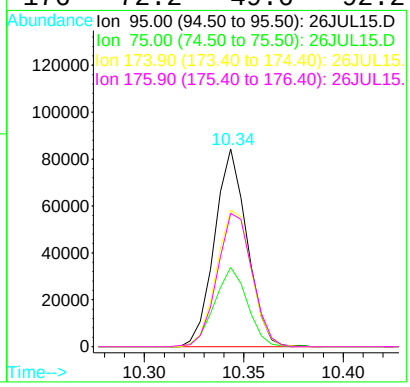


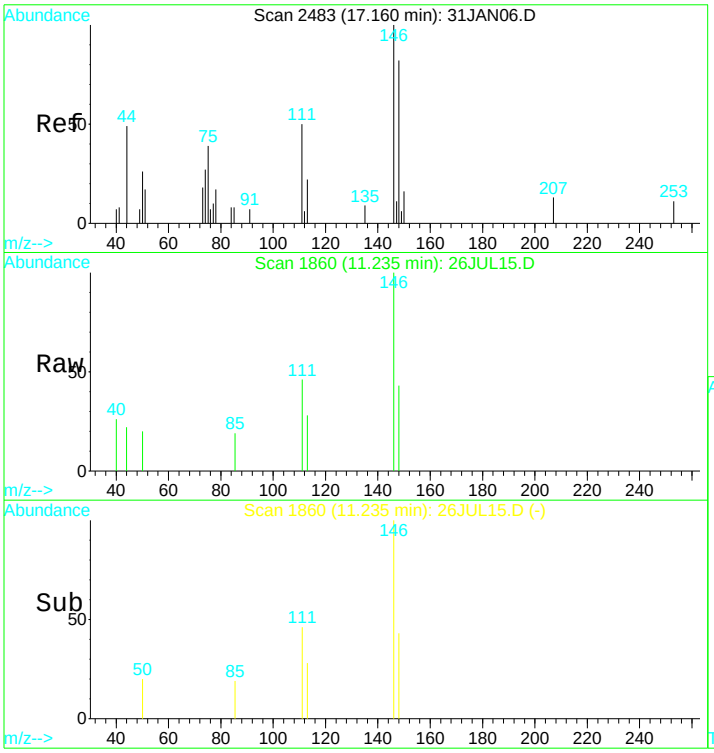


#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 26JUL15.D
Acq: 26 Jul 2017 7:14 pm

Tgt Ion: 95 Resp: 95879

Ion	Ratio	Lower	Upper
95	100		
75	40.7	29.5	54.7
174	74.0	52.3	97.1
176	72.2	49.6	92.2

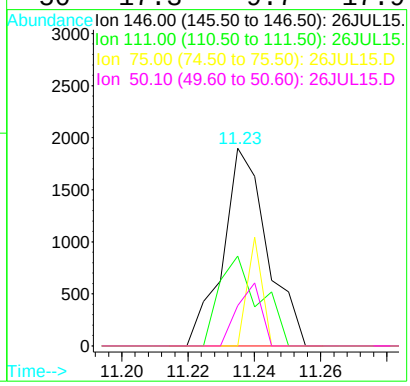


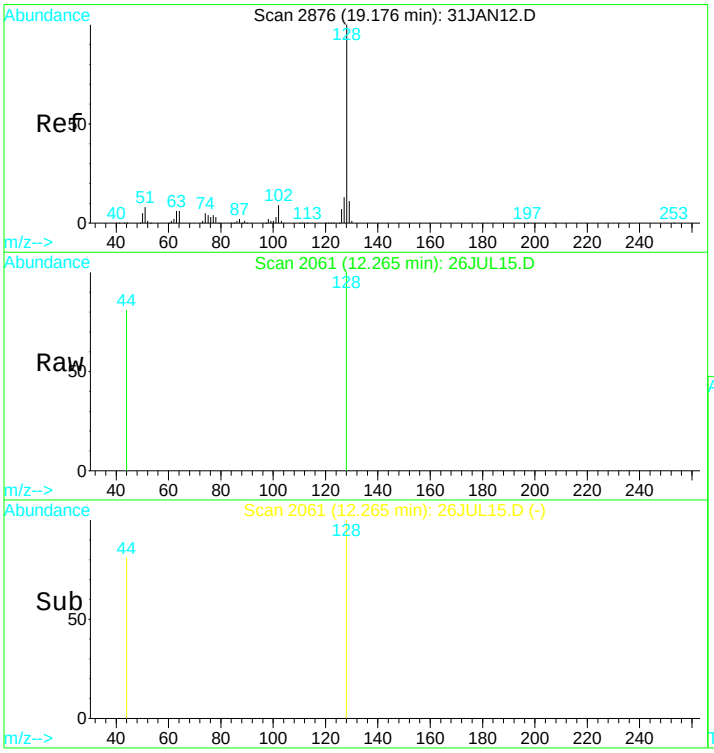


#63
1,2-Dichlorobenzene
Concen: 0.13 ug/L
RT: 11.23 min Scan# 1860
Delta R.T. -0.00 min
Lab File: 26JUL15.D
Acq: 26 Jul 2017 7:14 pm

Tgt Ion:146 Resp: 1761

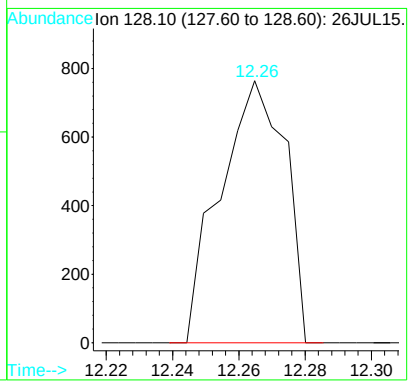
Ion	Ratio	Lower	Upper
146	100		
111	41.7	28.8	53.6
75	18.2	19.8	36.8#
50	17.3	9.7	17.9





#68
naphthalene
Concen: 0.10 ug/L
RT: 12.26 min Scan# 2061
Delta R.T. 0.00 min
Lab File: 26JUL15.D
Acq: 26 Jul 2017 7:14 pm

Tgt Ion:128 Resp: 1043



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL15.D Vial: 15
Acq On : 26 Jul 2017 7:14 pm Operator: MGC
Sample : 1720121-14 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:16 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	157906	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	238702	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	65286	10.00	ug/L	0.00

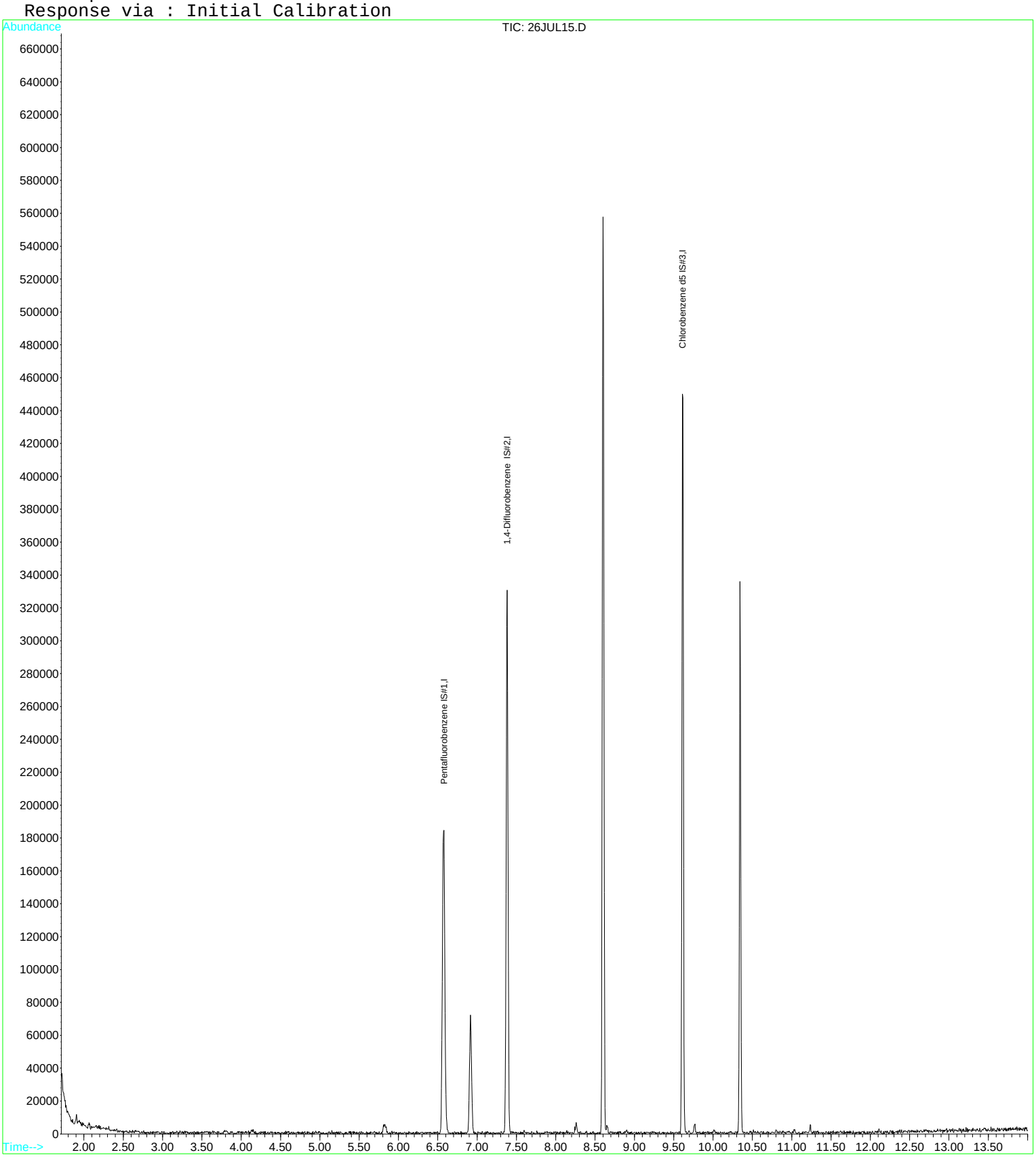
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL15.D Vial: 15
Acq On : 26 Jul 2017 7:14 pm Operator: MGC
Sample : 1720121-14 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:16 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL16.D Vial: 16
Acq On : 26 Jul 2017 7:37 pm Operator: MGC
Sample : 1720121-15 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 4:53 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	173601	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	262730	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	67241	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	52063	10.27	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 102.70%			
31) Toluene d8 SMC#2	8.60	98	316857	9.77	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.70%			
49) Bromofluorobenzene SMC#3	10.34	95	100057	9.97	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.70%			

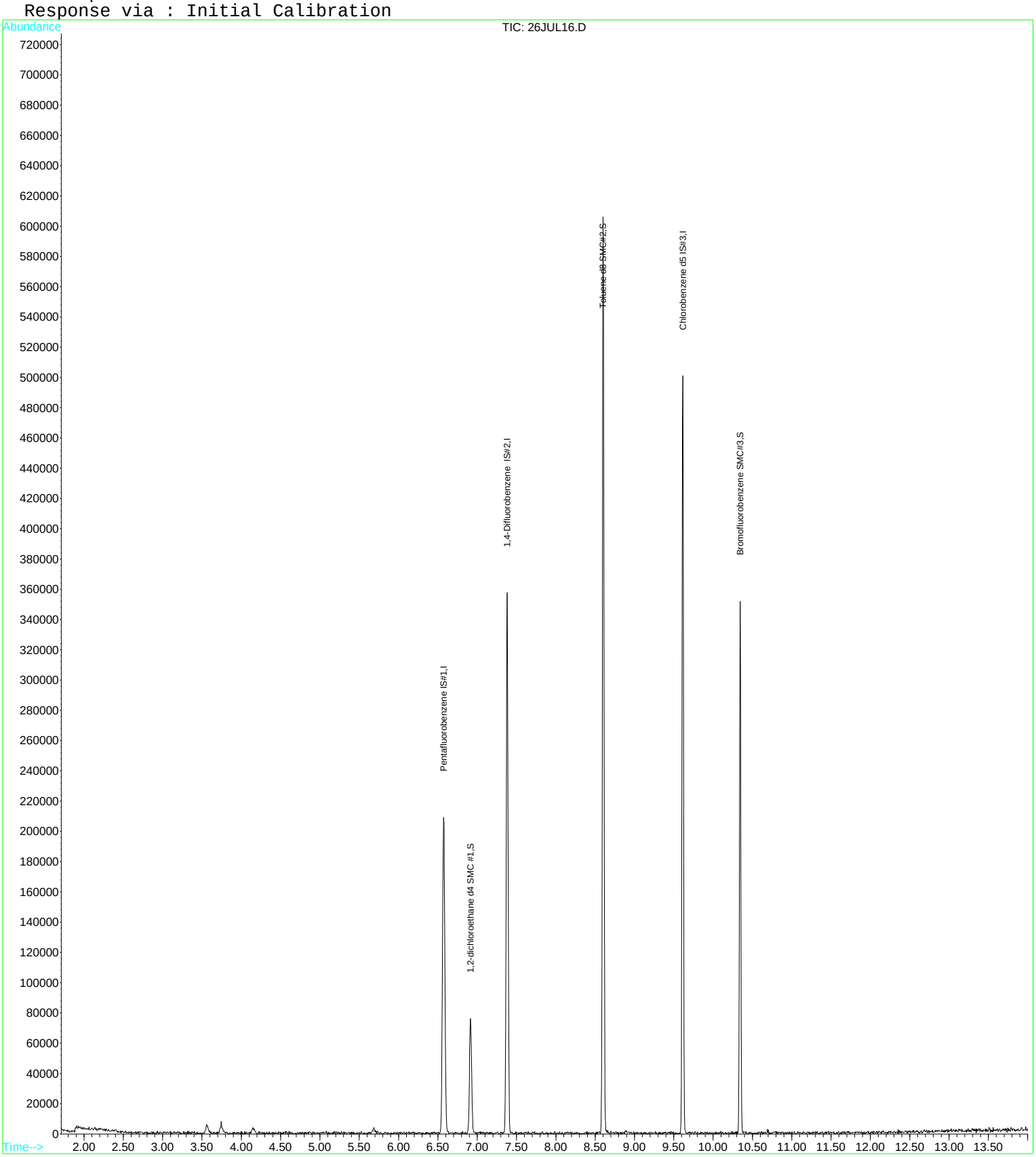
Target Compounds Qvalue

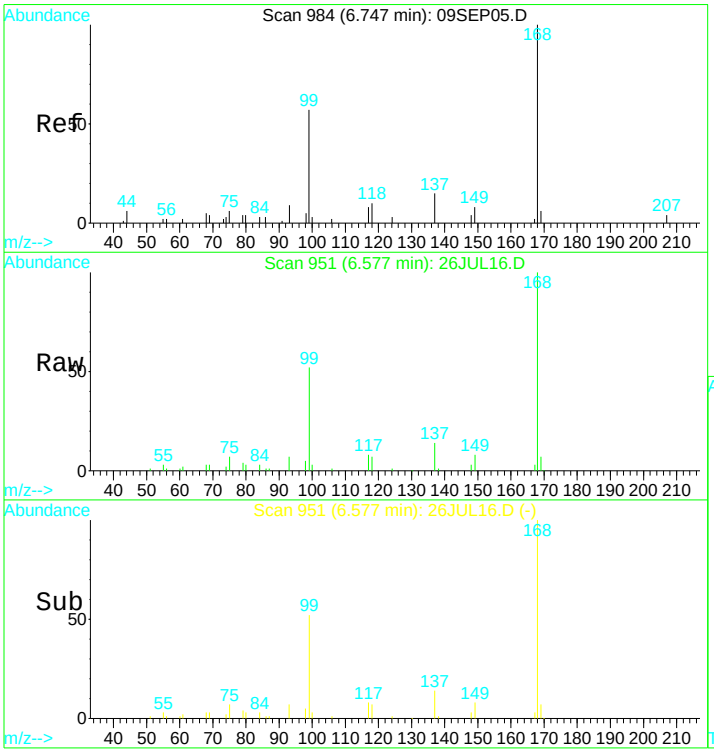
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL16.D Vial: 16
Acq On : 26 Jul 2017 7:37 pm Operator: MGC
Sample : 1720121-15 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 4:53 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

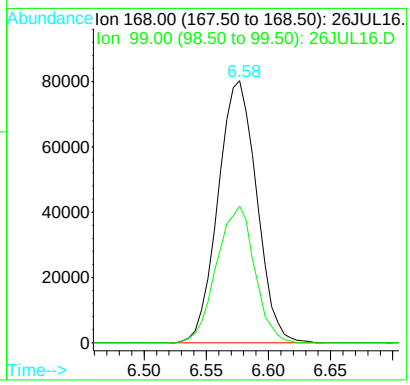


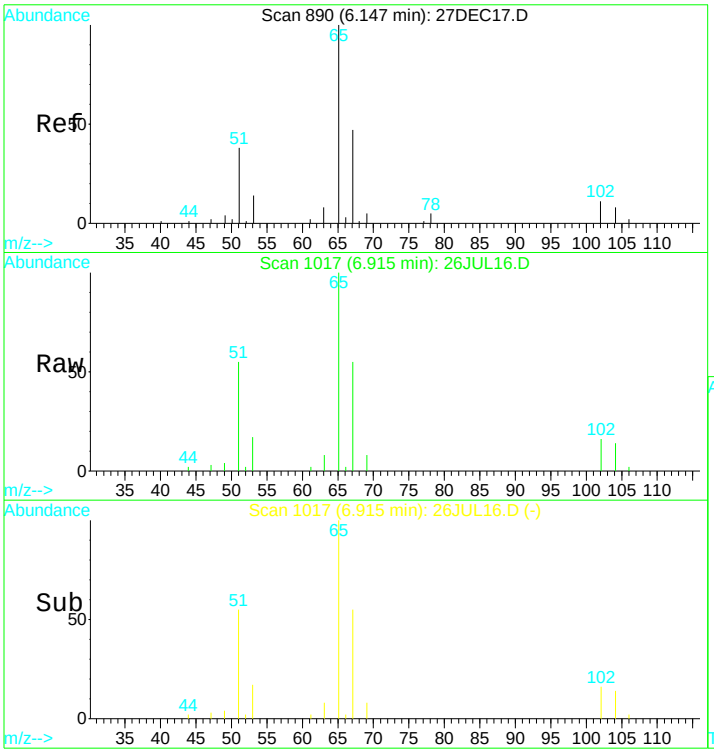


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.58 min Scan# 951
Delta R.T. 0.00 min
Lab File: 26JUL16.D
Acq: 26 Jul 2017 7:37 pm

Tgt Ion:168 Resp: 173601

Ion	Ratio	Lower	Upper
168	100		
99	51.1	38.7	71.9

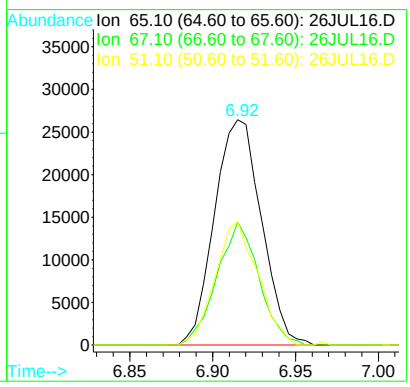


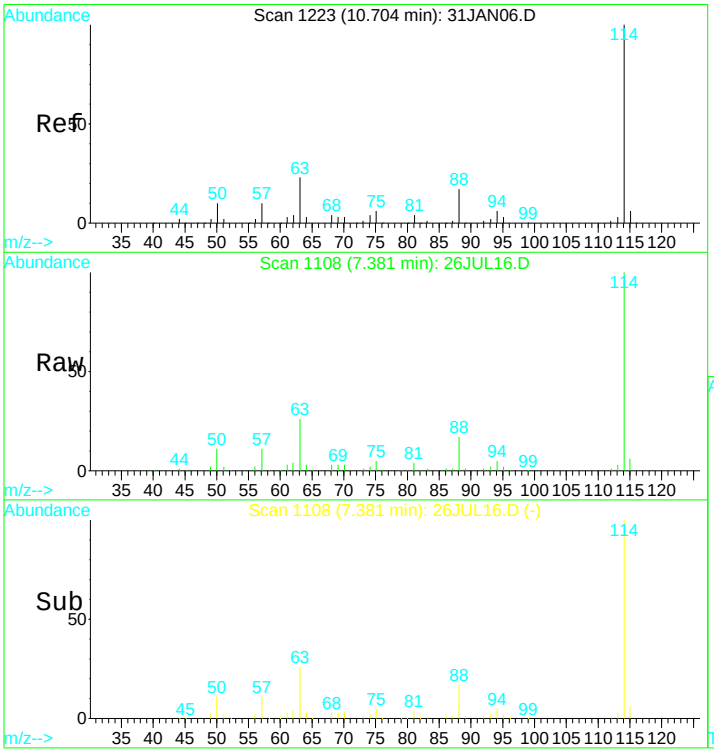


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1017
Delta R.T. 0.00 min
Lab File: 26JUL16.D
Acq: 26 Jul 2017 7:37 pm

Tgt Ion: 65 Resp: 52063

Ion	Ratio	Lower	Upper
65	100		
67	48.9	36.2	67.2
51	49.9	42.0	78.0

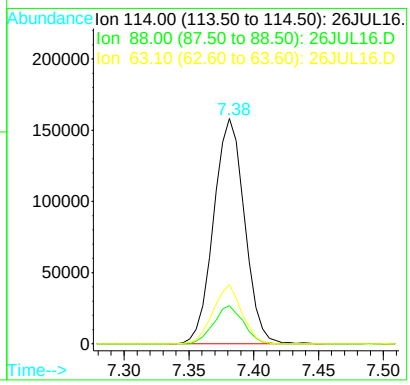


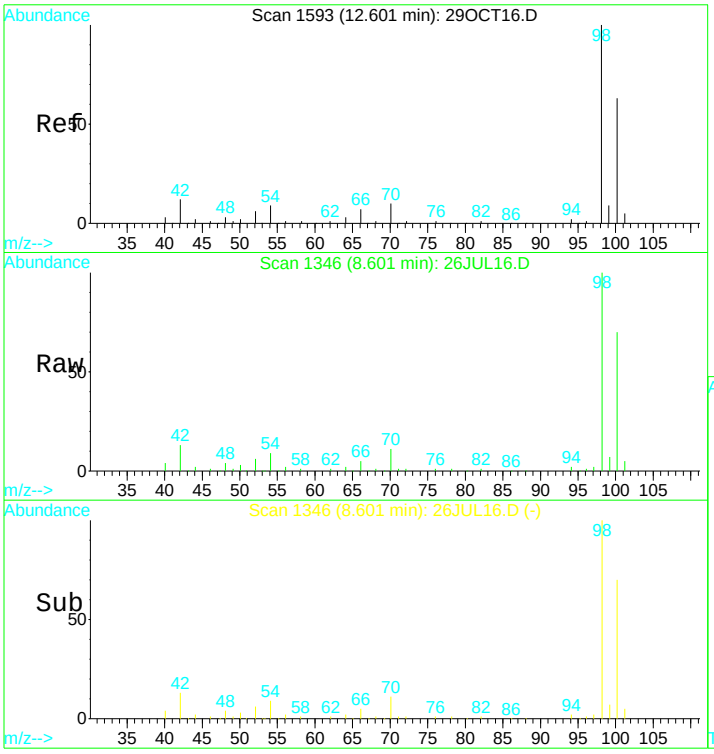


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 26JUL16.D
Acq: 26 Jul 2017 7:37 pm

Tgt Ion:114 Resp: 262730

Ion	Ratio	Lower	Upper
114	100		
88	16.2	11.7	21.7
63	24.2	16.7	30.9

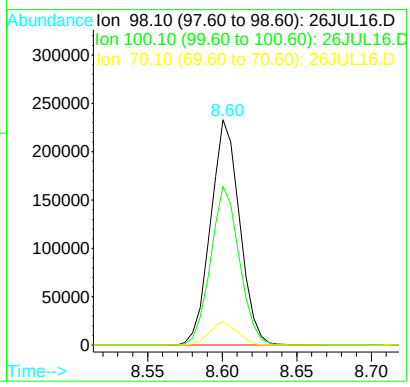


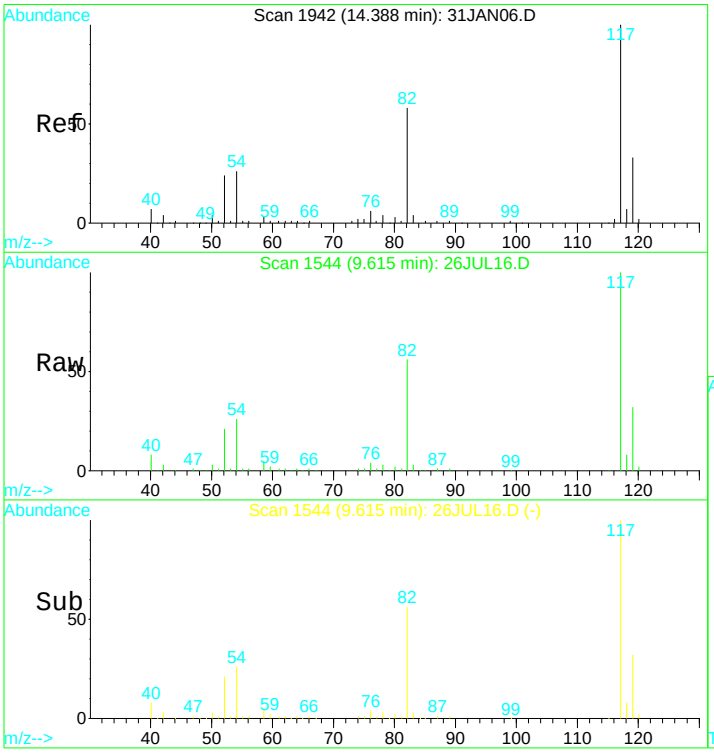


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 26JUL16.D
Acq: 26 Jul 2017 7:37 pm

Tgt Ion: 98 Resp: 316857

Ion	Ratio	Lower	Upper
98	100		
100	69.5	49.7	92.3
70	9.9	7.3	13.7

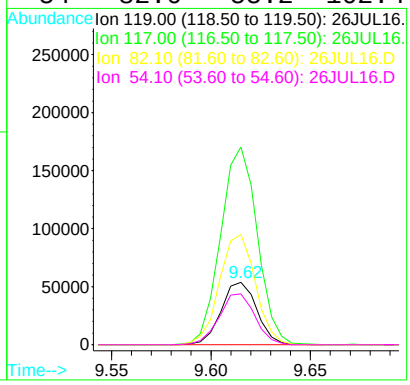


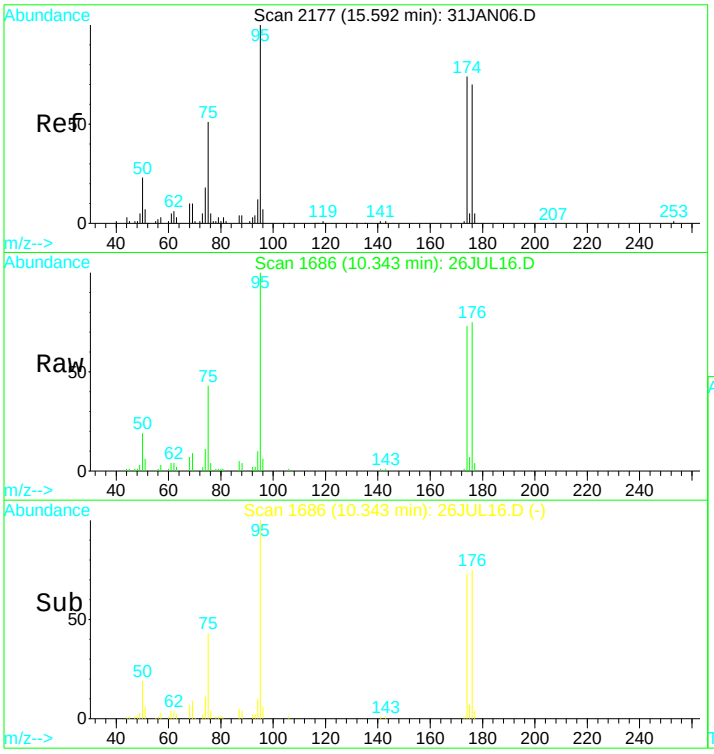


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 26JUL16.D
Acq: 26 Jul 2017 7:37 pm

Tgt Ion:119 Resp: 67241

Ion	Ratio	Lower	Upper
119	100		
117	324.7	214.5	398.4
82	178.0	117.7	218.7
54	82.0	55.2	102.4

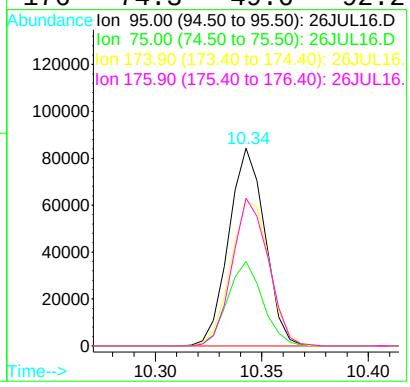




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 26JUL16.D
Acq: 26 Jul 2017 7:37 pm

Tgt Ion: 95 Resp: 100057

Ion	Ratio	Lower	Upper
95	100		
75	41.4	29.5	54.7
174	77.9	52.3	97.1
176	74.3	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL16.D Vial: 16
Acq On : 26 Jul 2017 7:37 pm Operator: MGC
Sample : 1720121-15 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:17 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	173601	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	262730	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	67241	10.00	ug/L	0.00

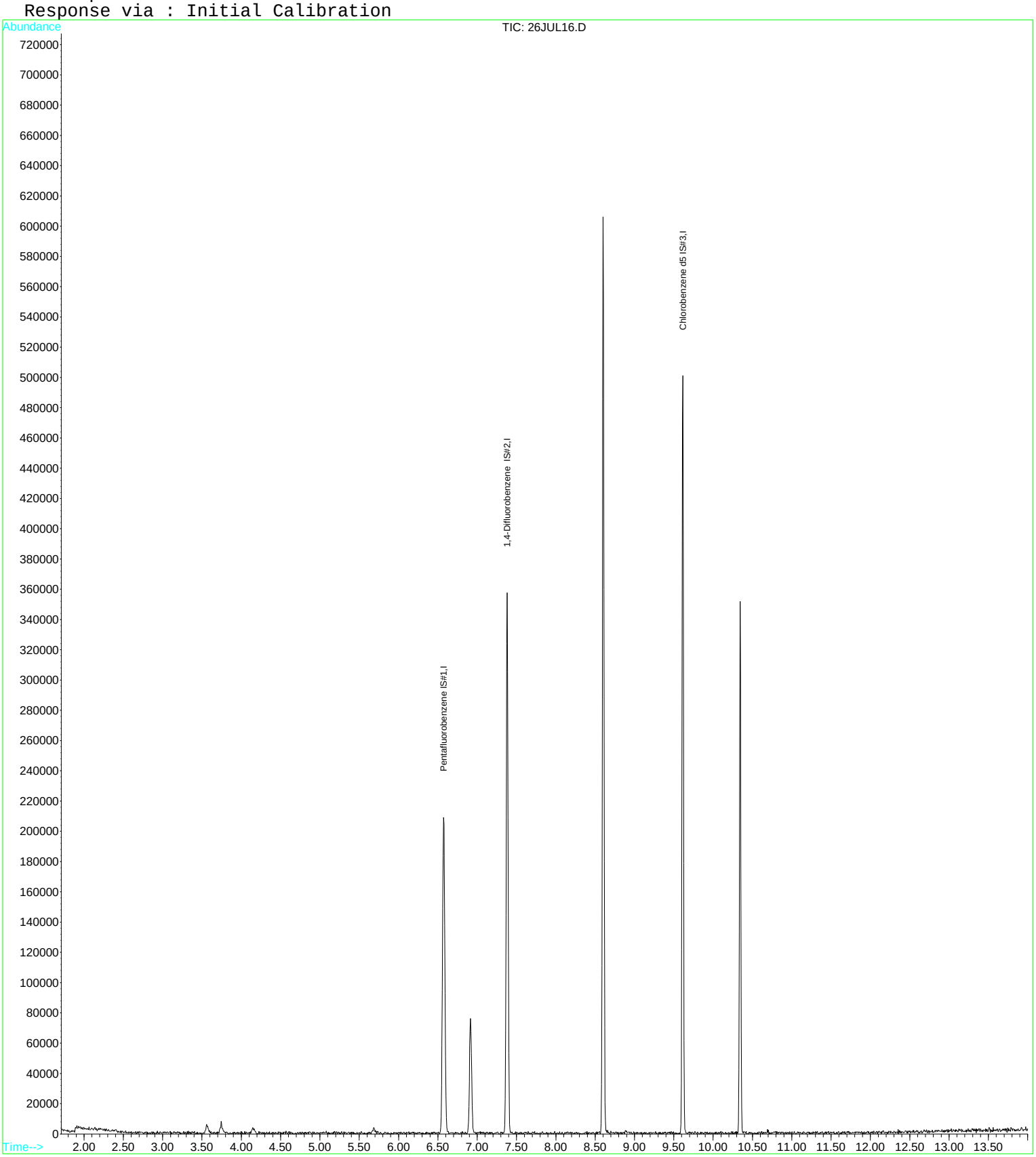
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL16.D Vial: 16
Acq On : 26 Jul 2017 7:37 pm Operator: MGC
Sample : 1720121-15 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:17 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL17.D Vial: 17
Acq On : 26 Jul 2017 8:00 pm Operator: MGC
Sample : 1720121-16 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 4:54 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	168332	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	246124	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	66457	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	49597	10.09	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 100.90%			
31) Toluene d8 SMC#2	8.60	98	302834	9.96	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.60%			
49) Bromofluorobenzene SMC#3	10.34	95	99755	10.05	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.50%			

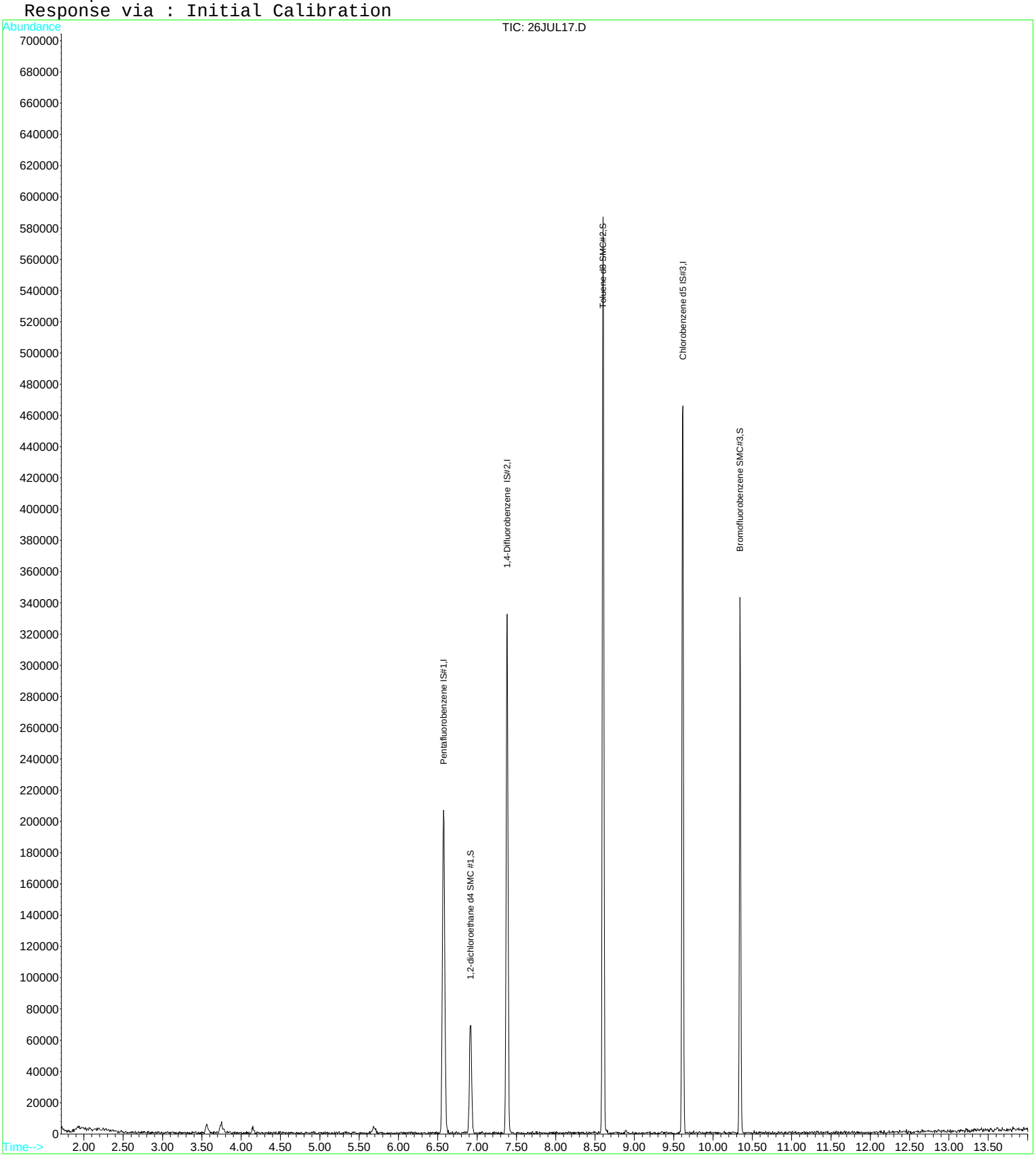
Target Compounds Qvalue

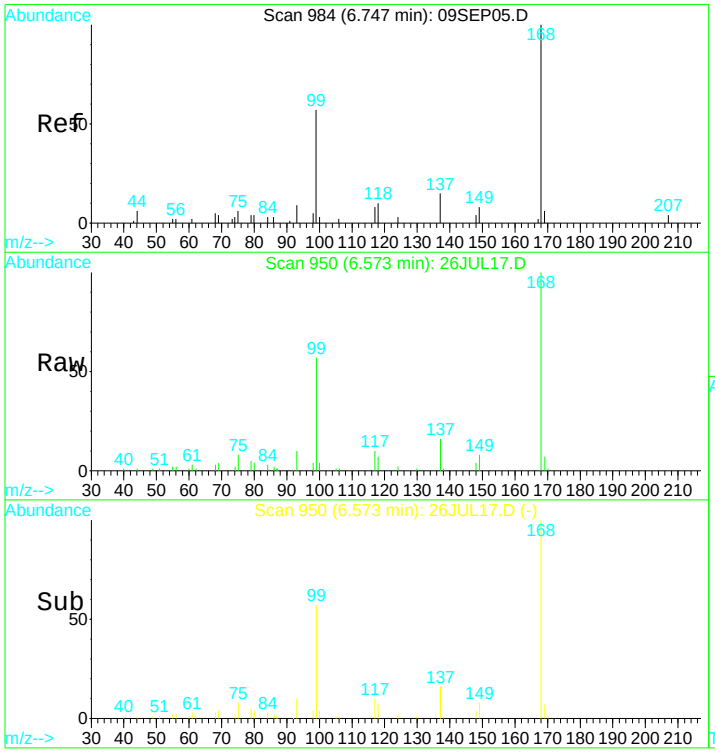
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL17.D Vial: 17
Acq On : 26 Jul 2017 8:00 pm Operator: MGC
Sample : 1720121-16 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 4:54 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

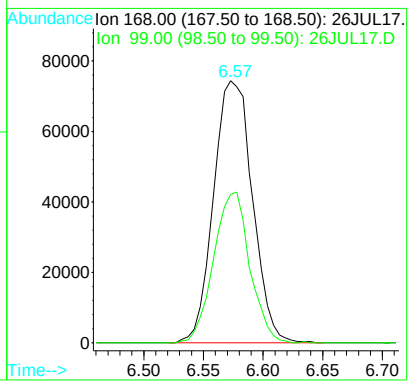


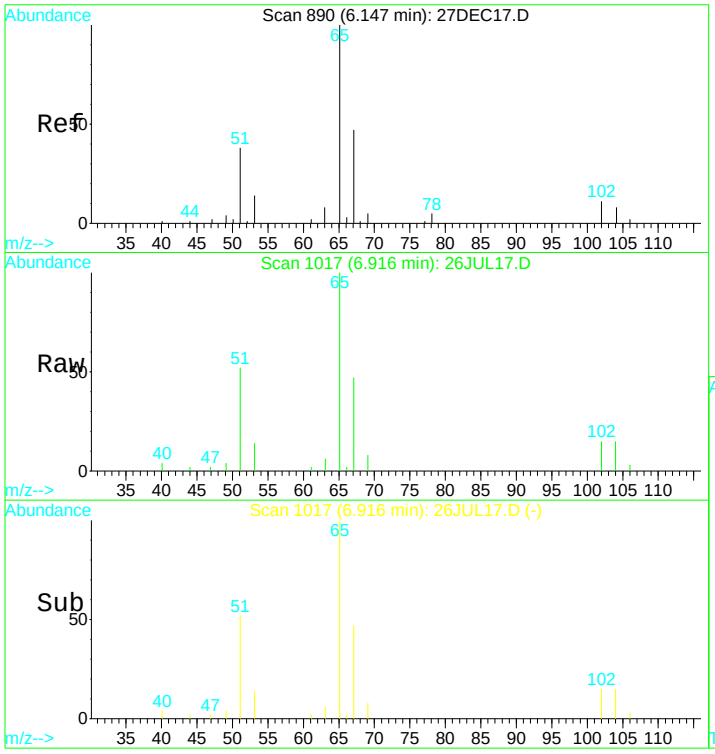


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 26JUL17.D
Acq: 26 Jul 2017 8:00 pm

Tgt Ion:168 Resp: 168332

Ion	Ratio	Lower	Upper
168	100		
99	53.2	38.7	71.9

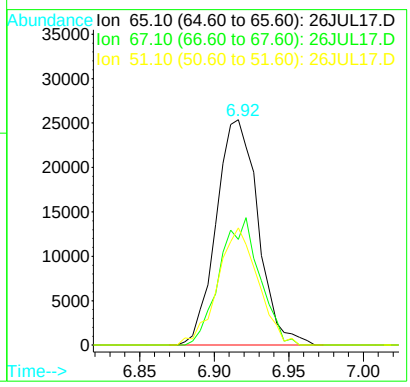


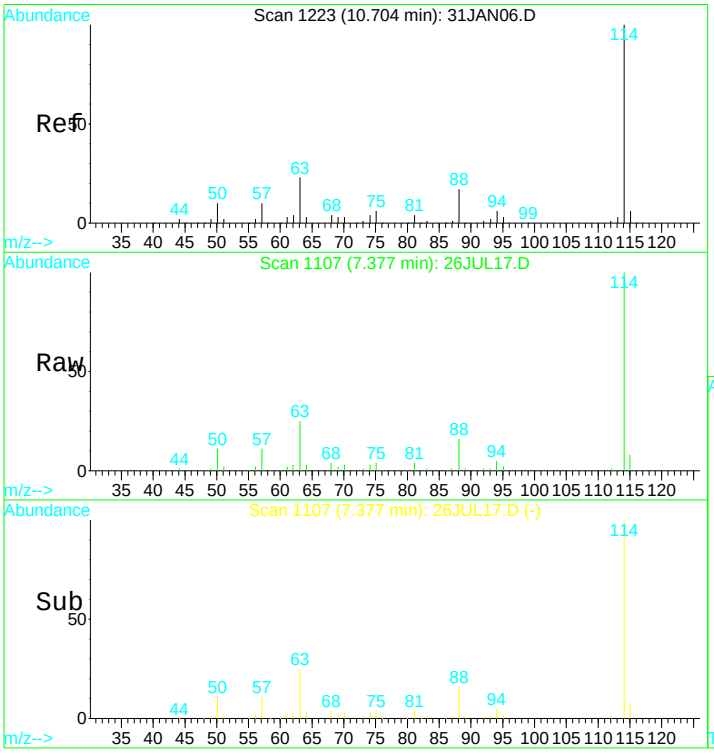


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1017
Delta R.T. 0.00 min
Lab File: 26JUL17.D
Acq: 26 Jul 2017 8:00 pm

Tgt Ion: 65 Resp: 49597

Ion	Ratio	Lower	Upper
65	100		
67	53.9	36.2	67.2
51	50.1	42.0	78.0

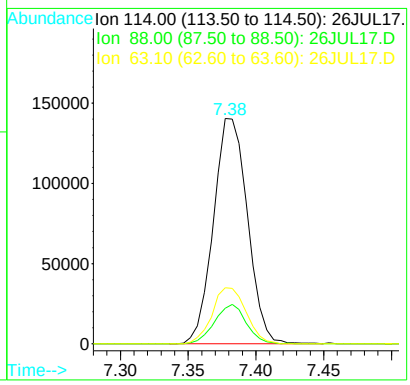


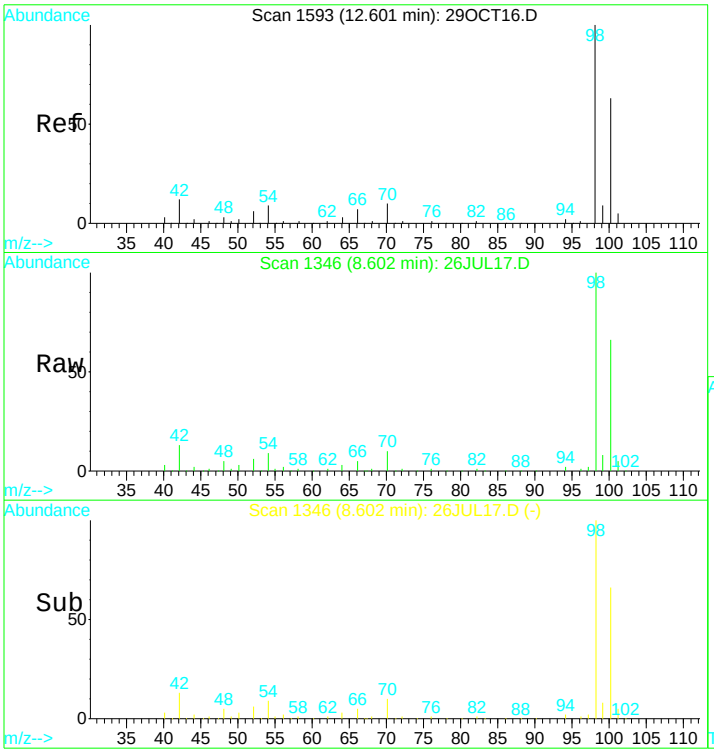


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1107
Delta R.T. -0.00 min
Lab File: 26JUL17.D
Acq: 26 Jul 2017 8:00 pm

Tgt Ion:114 Resp: 246124

Ion	Ratio	Lower	Upper
114	100		
88	16.3	11.7	21.7
63	24.8	16.7	30.9

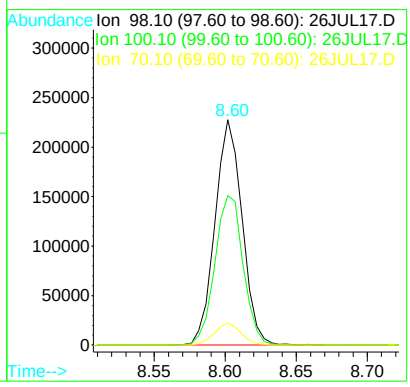


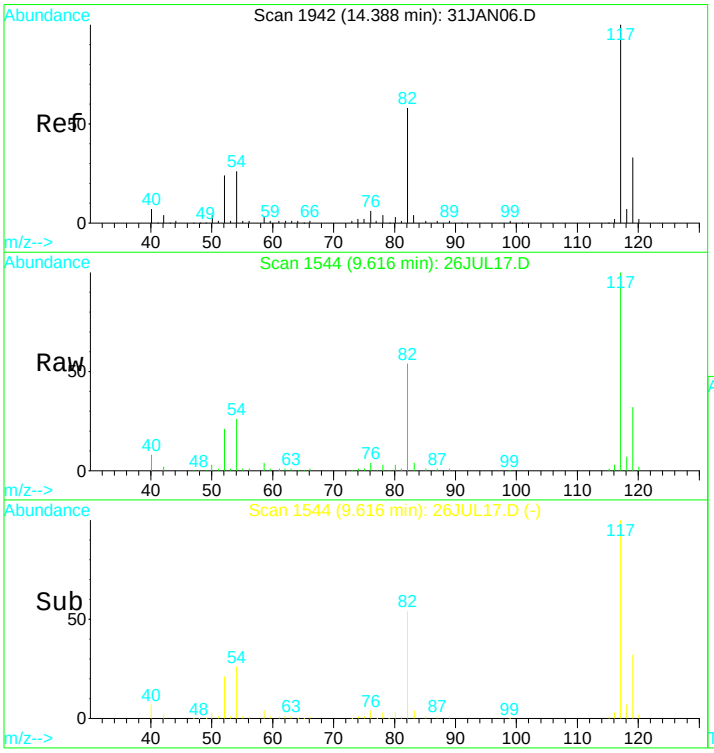


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 26JUL17.D
Acq: 26 Jul 2017 8:00 pm

Tgt Ion: 98 Resp: 302834

Ion	Ratio	Lower	Upper
98	100		
100	69.1	49.7	92.3
70	9.6	7.3	13.7

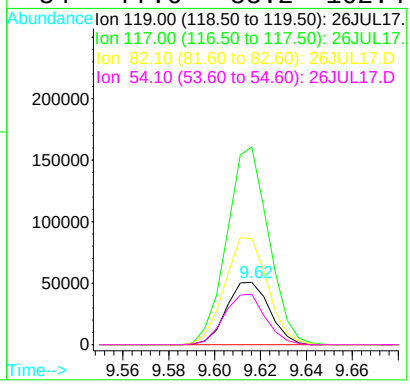


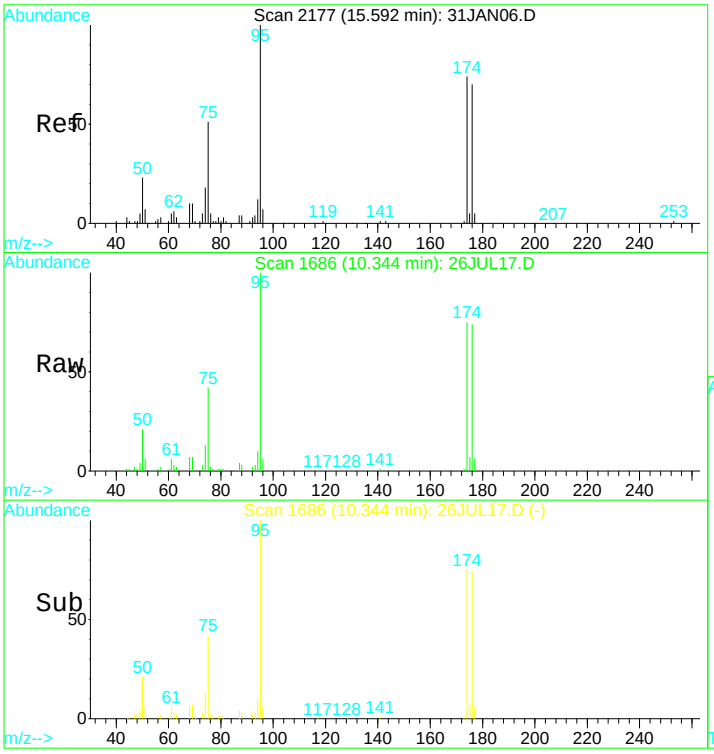


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 26JUL17.D
Acq: 26 Jul 2017 8:00 pm

Tgt Ion:119 Resp: 66457

Ion	Ratio	Lower	Upper
119	100		
117	306.9	214.5	398.4
82	171.0	117.7	218.7
54	77.6	55.2	102.4

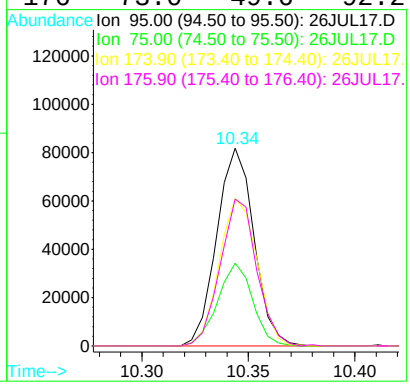




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 26JUL17.D
Acq: 26 Jul 2017 8:00 pm

Tgt Ion: 95 Resp: 99755

Ion	Ratio	Lower	Upper
95	100		
75	39.6	29.5	54.7
174	75.4	52.3	97.1
176	73.0	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL17.D Vial: 17
Acq On : 26 Jul 2017 8:00 pm Operator: MGC
Sample : 1720121-16 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:17 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	168332	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	246124	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	66457	10.00	ug/L	0.00

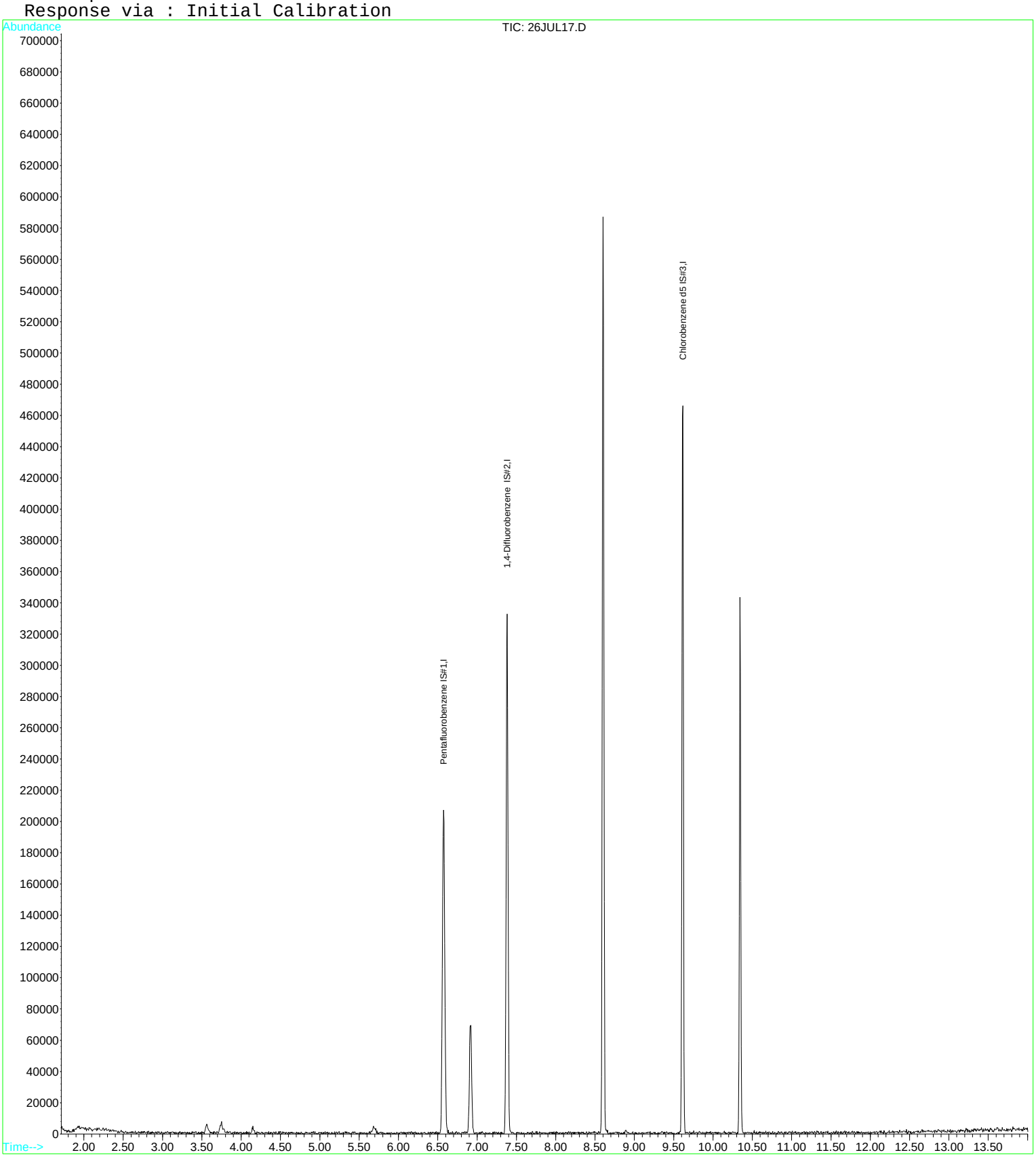
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL17.D Vial: 17
Acq On : 26 Jul 2017 8:00 pm Operator: MGC
Sample : 1720121-16 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:17 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL18.D Vial: 18
Acq On : 26 Jul 2017 8:23 pm Operator: MGC
Sample : 1720121-17 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 4:54 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	163858	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	247202	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	64829	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	49262	10.29	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 102.90%			
31) Toluene d8 SMC#2	8.60	98	298449	9.78	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.80%			
49) Bromofluorobenzene SMC#3	10.34	95	96937	10.01	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.10%			

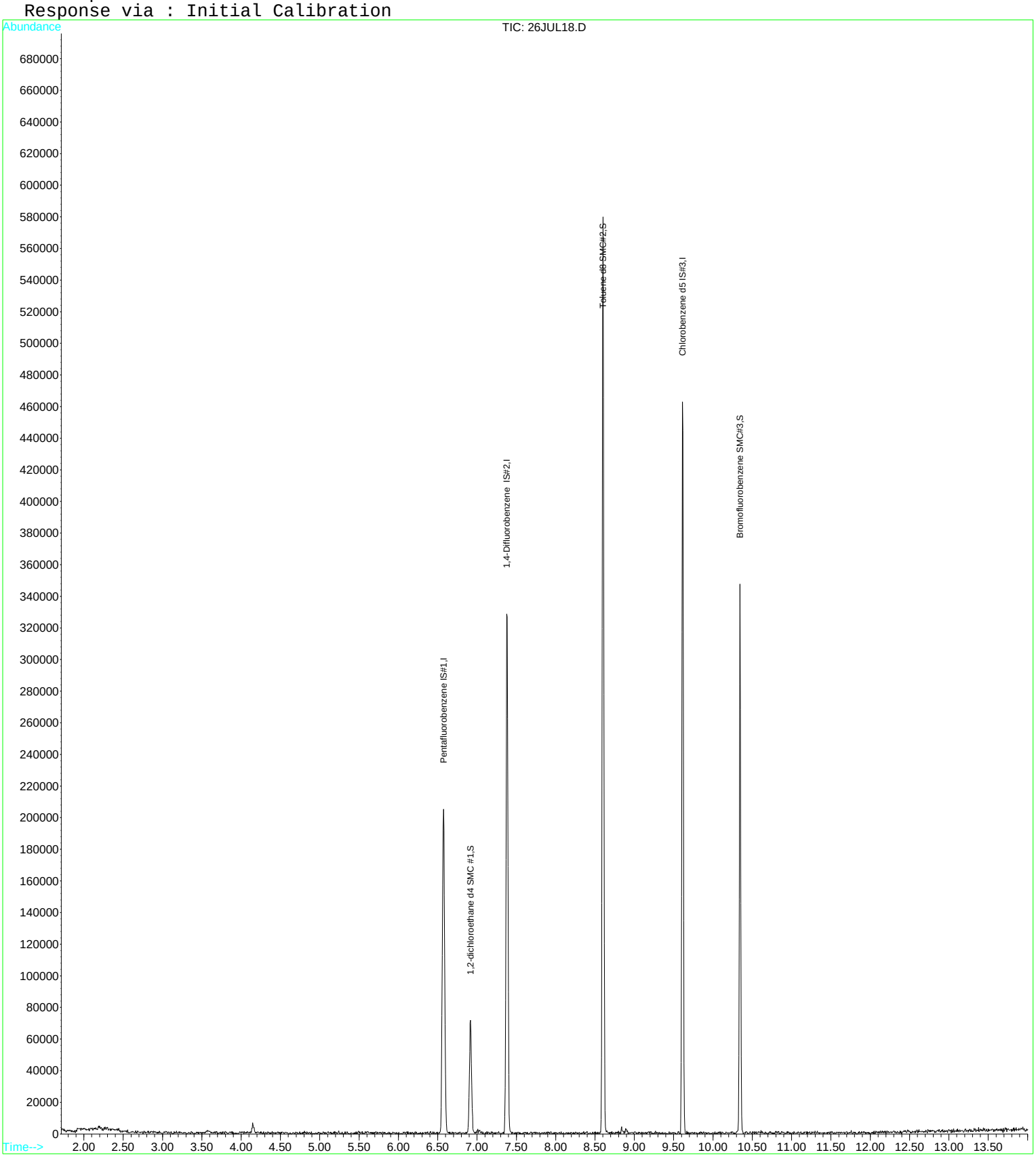
Target Compounds Qvalue

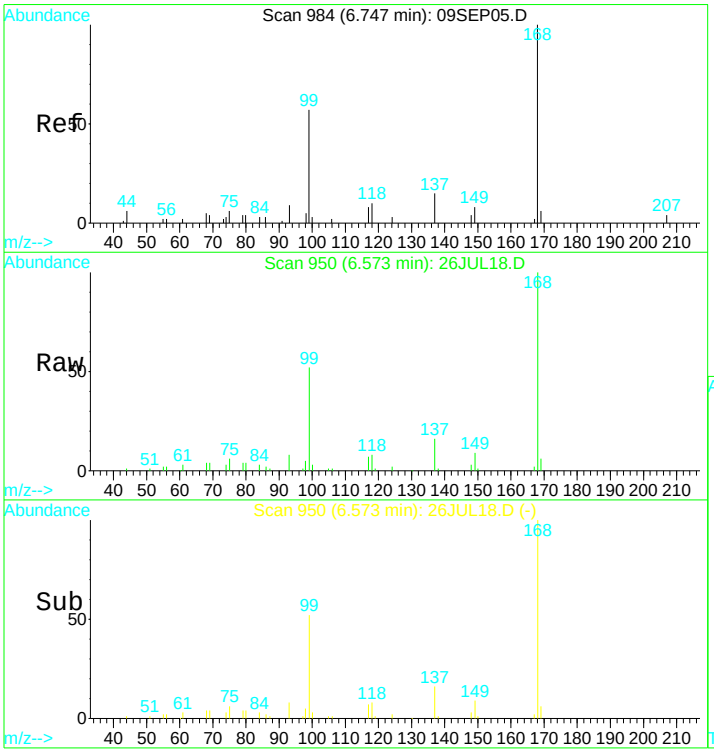
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL18.D Vial: 18
Acq On : 26 Jul 2017 8:23 pm Operator: MGC
Sample : 1720121-17 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 4:54 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration

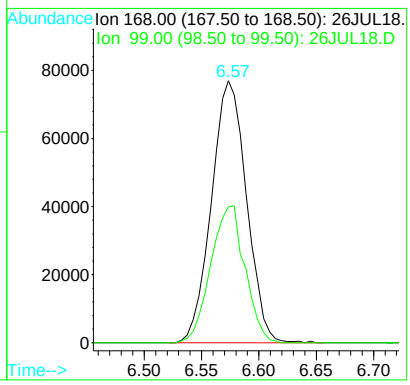


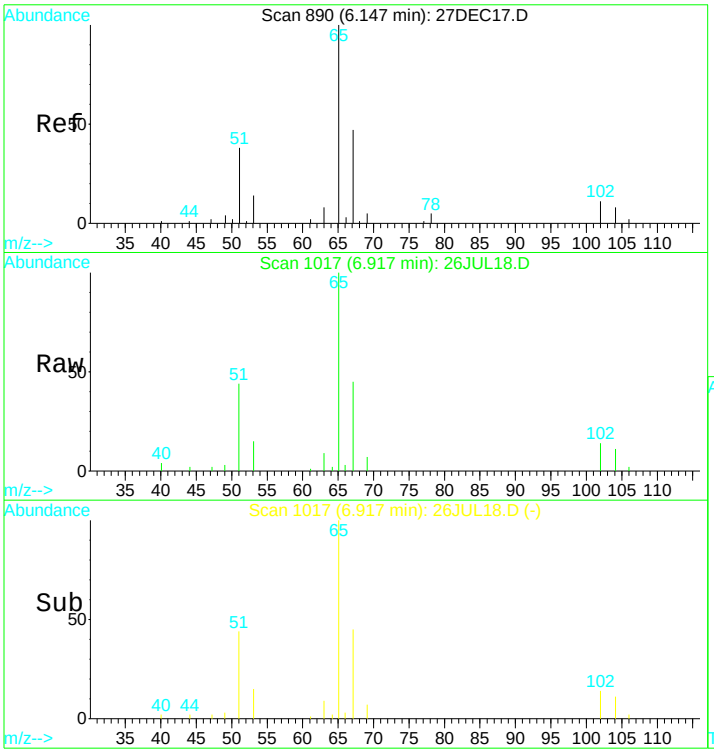


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.57 min Scan# 950
Delta R.T. -0.00 min
Lab File: 26JUL18.D
Acq: 26 Jul 2017 8:23 pm

Tgt Ion:168 Resp: 163858

Ion	Ratio	Lower	Upper
168	100		
99	50.8	38.7	71.9

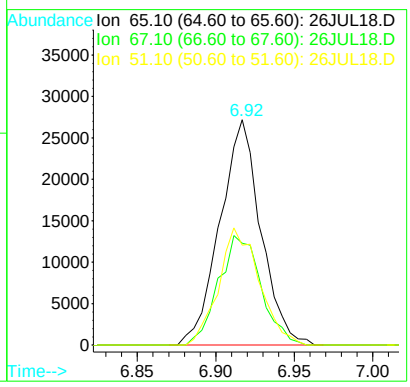


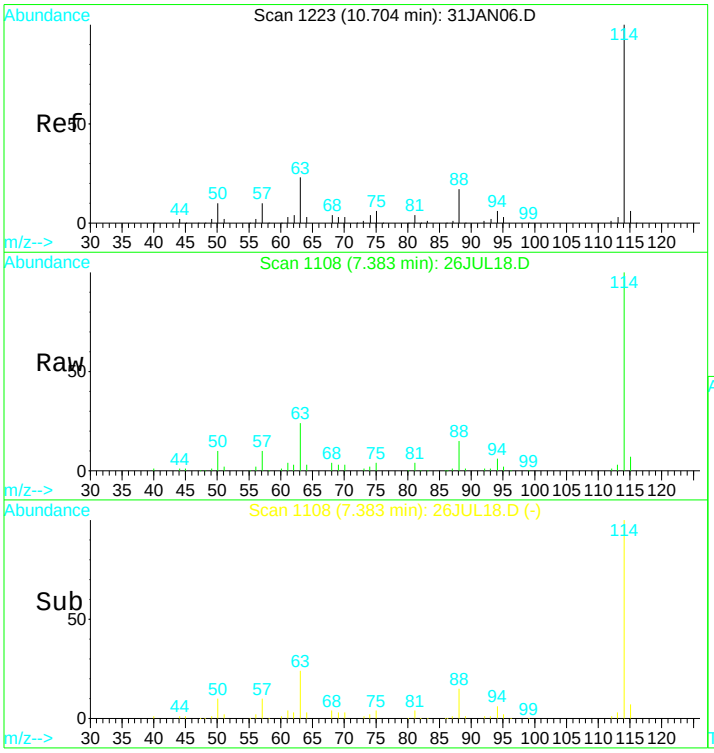


#21
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 6.92 min Scan# 1017
Delta R.T. 0.00 min
Lab File: 26JUL18.D
Acq: 26 Jul 2017 8:23 pm

Tgt Ion: 65 Resp: 49262

Ion	Ratio	Lower	Upper
65	100		
67	50.1	36.2	67.2
51	51.7	42.0	78.0

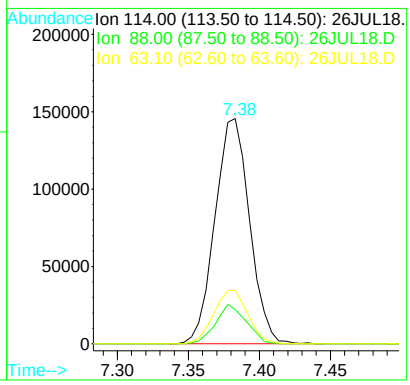


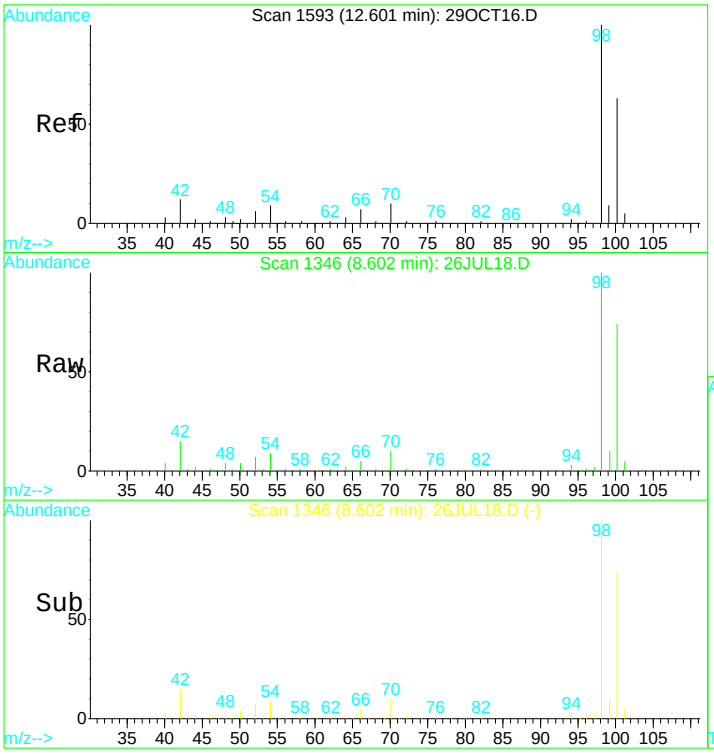


#24
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.38 min Scan# 1108
Delta R.T. 0.00 min
Lab File: 26JUL18.D
Acq: 26 Jul 2017 8:23 pm

Tgt Ion:114 Resp: 247202

Ion	Ratio	Lower	Upper
114	100		
88	15.5	11.7	21.7
63	23.5	16.7	30.9

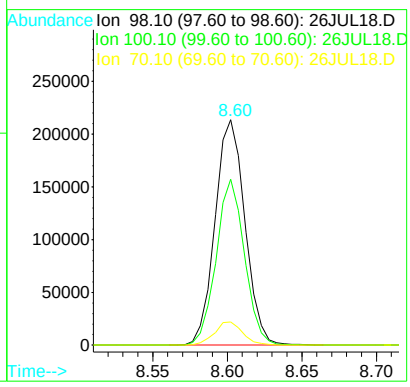


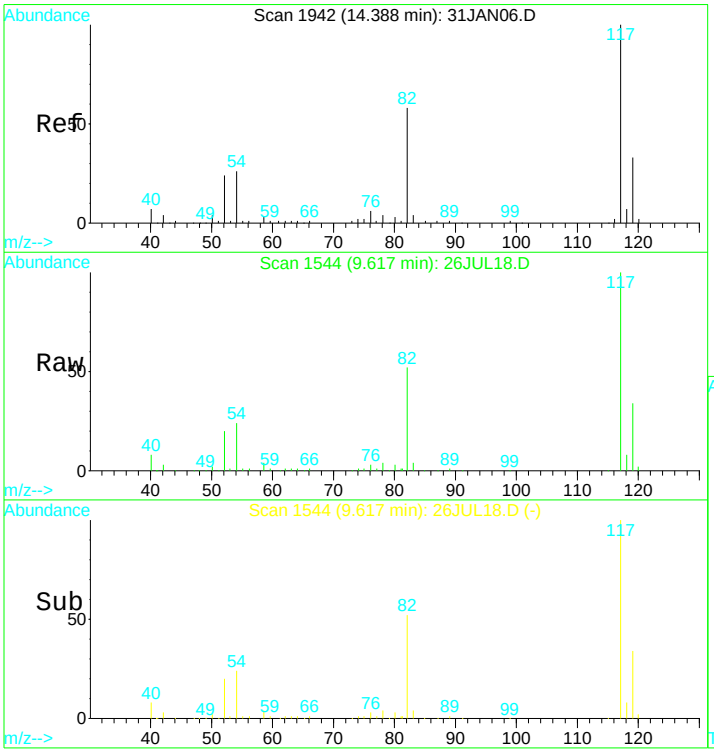


#31
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.60 min Scan# 1346
Delta R.T. 0.00 min
Lab File: 26JUL18.D
Acq: 26 Jul 2017 8:23 pm

Tgt Ion: 98 Resp: 298449

Ion	Ratio	Lower	Upper
98	100		
100	69.6	49.7	92.3
70	9.8	7.3	13.7

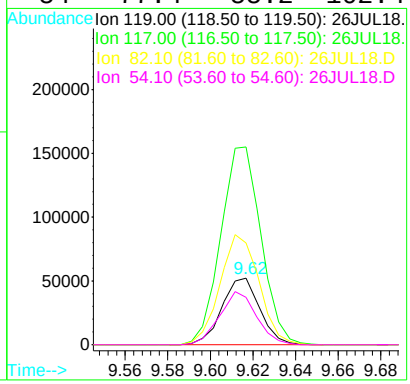


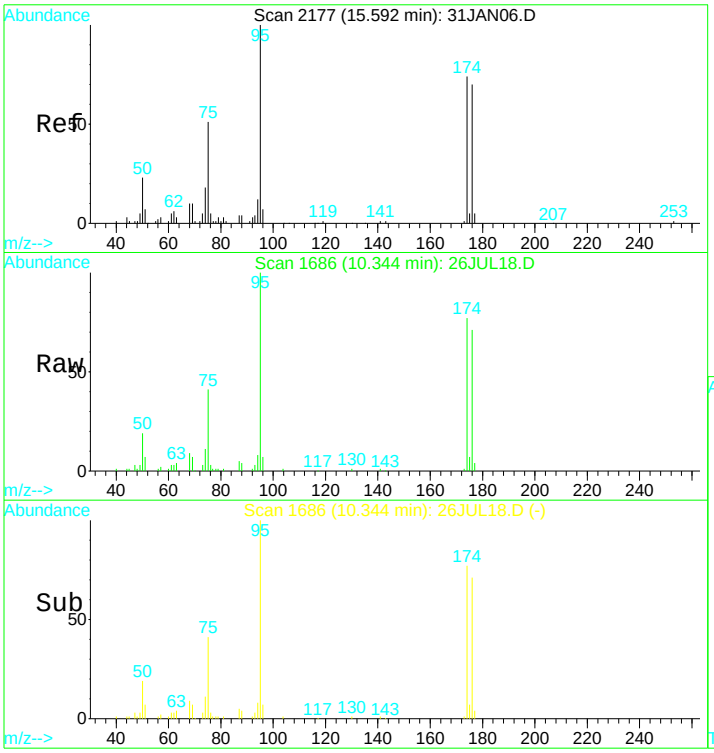


#39
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.62 min Scan# 1544
Delta R.T. 0.00 min
Lab File: 26JUL18.D
Acq: 26 Jul 2017 8:23 pm

Tgt Ion:119 Resp: 64829

Ion	Ratio	Lower	Upper
119	100		
117	314.1	214.5	398.4
82	169.9	117.7	218.7
54	77.4	55.2	102.4

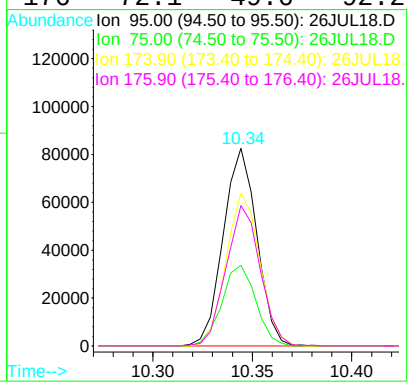




#49
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.34 min Scan# 1686
Delta R.T. 0.00 min
Lab File: 26JUL18.D
Acq: 26 Jul 2017 8:23 pm

Tgt Ion: 95 Resp: 96937

Ion	Ratio	Lower	Upper
95	100		
75	41.3	29.5	54.7
174	77.6	52.3	97.1
176	72.1	49.6	92.2



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL18.D Vial: 18
Acq On : 26 Jul 2017 8:23 pm Operator: MGC
Sample : 1720121-17 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:17 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	163858	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	247202	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	64829	10.00	ug/L	0.00

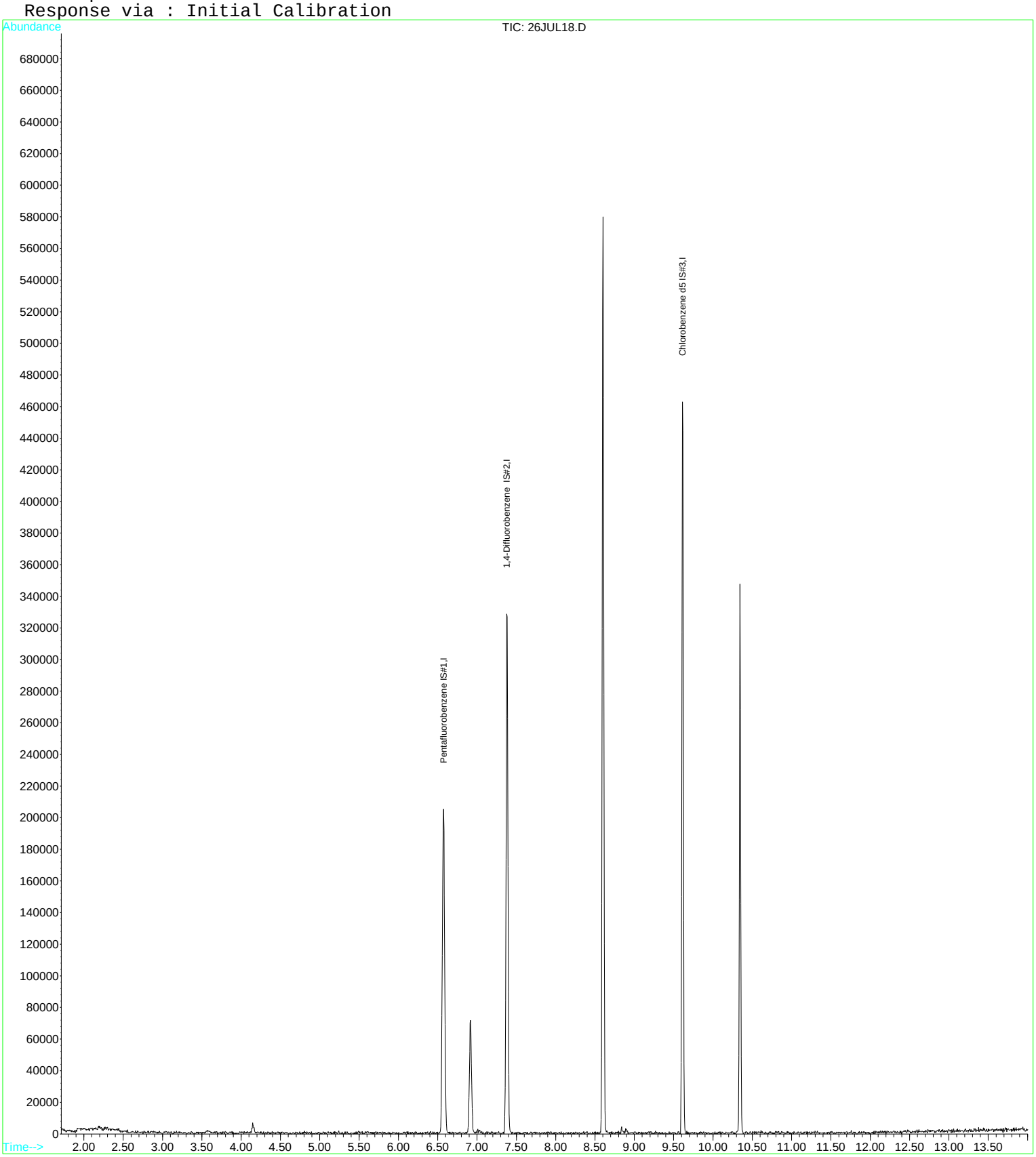
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL18.D Vial: 18
Acq On : 26 Jul 2017 8:23 pm Operator: MGC
Sample : 1720121-17 Inst : MS-V5
Misc : 1 ;25ML;pH=1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:17 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Raw Data - Calibration Standards

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL03.D Vial: 3
Acq On : 20 Jul 2017 8:32 am Operator: MGC
Sample : 1712752-CAL1 Inst : MS-V5
Misc : 1 VO-109-70507;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 8:46 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	217011	10.00 ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	336200	10.00 ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	90897	10.00 ug/L	0.00

System Monitoring Compounds					
21) 1,2-dichloroethane d4 SMC	6.92	65	65374	10.06 ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 100.60%					
31) Toluene d8 SMC#2	8.60	98	410267	9.86 ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 98.60%					
49) Bromofluorobenzene SMC#3	10.35	95	130298	9.68 ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 96.80%					

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.76	85	4360	0.36 ug/L	90
3) Chloromethane	1.94	50	11998	0.58 ug/L	99
4) Vinyl chloride	2.07	62	8395	0.50 ug/L #	69
5) Bromomethane	2.43	94	4401	0.93 ug/L #	72
6) Chloroethane	2.57	64	6138	0.57 ug/L	93
7) Trichlorofluoromethane	2.86	101	6131	0.41 ug/L #	76
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	4044	0.42 ug/L #	84
9) 1,1-Dichloroethene	3.52	61	8614	0.47 ug/L	97
10) Methylene chloride	4.15	84	7409	0.78 ug/L	98
11) MTBE	4.49	73	6455	0.57 ug/L	85
12) T-1,2-dichloroethene	4.51	96	5712	0.50 ug/L	94
13) 1,1-Dichloroethane	5.05	63	12242	0.53 ug/L	100
14) 2,2-Dichloropropane	5.83	77	6502	3.22 ug/L #	1
15) Cis-1,2-dichloroethene	5.83	96	5837	0.52 ug/L	89
16) Bromochloromethane	6.18	128	1853	0.51 ug/L #	88
17) Chloroform	6.32	83	8555	0.51 ug/L	100
18) 1,1,1-Trichloroethane	6.53	97	6787	0.54 ug/L #	53
19) 1,1-Dichloropropene	6.73	75	7443	0.48 ug/L	94
20) Carbon tetrachloride	6.71	119	4464	1.80 ug/L #	74
22) 1,2-Dichloroethane	6.99	62	4167	0.45 ug/L #	99
23) Benzene	6.93	78	23929	0.53 ug/L	87
25) Trichloroethene	7.60	130	5562	0.45 ug/L	88
26) 1,2-Dichloropropane	7.84	63	6298	0.50 ug/L #	96
27) Dibromomethane	7.90	93	1490	0.46 ug/L #	73
28) Bromodichloromethane	8.06	83	4855	0.54 ug/L	90
29) 2-ceve	8.28	63	6159	1.92 ug/L #	95
30) Cis-1,3-dichloropropene	8.39	75	5596	1.85 ug/L #	87
32) Toluene	8.65	92	15200	0.50 ug/L	80
33) Trans-1,3-dichloropropene	8.82	75	3122	2.84 ug/L	85
34) 1,1,2-Trichloroethane	8.96	97	2429	0.48 ug/L	92
35) Tetrachloroethene (PCE)	9.03	166	5719	0.51 ug/L #	87
36) 1,3-Dichloropropane	9.08	76	4332	0.53 ug/L #	81
37) Dibromochloromethane	9.24	129	2321	2.09 ug/L #	85
38) 1,2-Dibromoethane	9.32	107	2337	1.18 ug/L	69
40) Chlorobenzene	9.63	112	16901	0.56 ug/L	95
41) 1,1,1,2-Tetrachloroethane	9.69	131	3340	0.98 ug/L #	70
42) Ethylbenzene	9.69	106	8787	0.49 ug/L	85
43) P+m-Xylene	9.77	106	24229	1.12 ug/L	95
44) O-Xylene	10.01	106	9945	0.50 ug/L	93
45) Styrene	10.02	104	15101	0.50 ug/L	92
46) Bromoform	10.16	173	935	3.01 ug/L #	100
47) Isopropylbenzene	10.23	105	27332	0.53 ug/L	96
48) 1,1,2,2-Tetrachloroethane	10.41	83	2268	0.45 ug/L	86
50) 1,2,3-Trichloropropane	10.45	110	229	Below Cal #	100
51) n-propylbenzene	10.47	91	35646	0.54 ug/L	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL03.D Vial: 3
Acq On : 20 Jul 2017 8:32 am Operator: MGC
Sample : 1712752-CAL1 Inst : MS-V5
Misc : 1 VO-109-70507;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 8:46 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

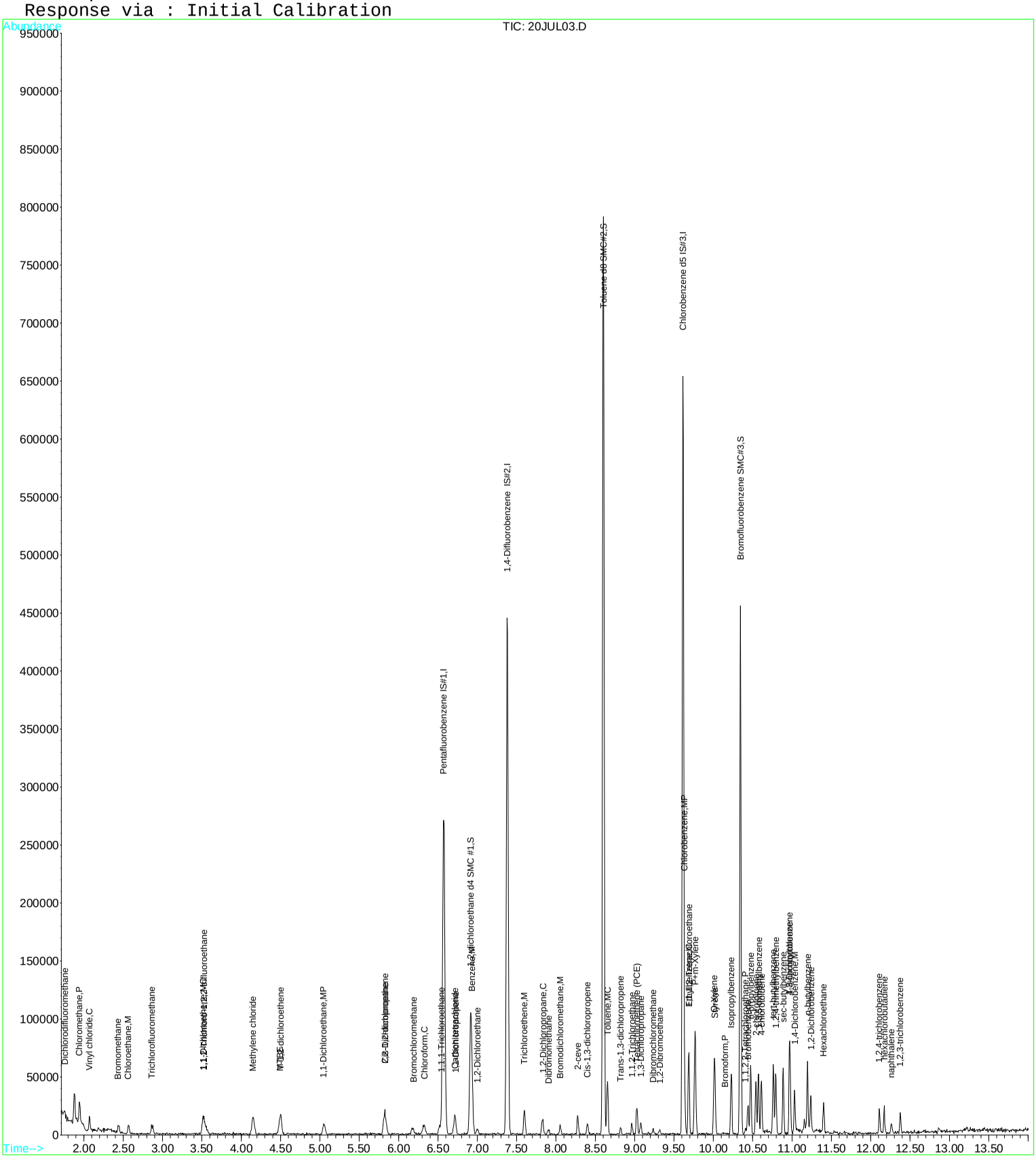
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	5541	0.53	ug/L		79
53)	1,3,5-trimethylbenzene	10.58	105	22586	0.53	ug/L		95
54)	2-chlorotoluene	10.54	91	21303	0.51	ug/L		94
55)	4-chlorotoluene	10.61	91	19917	0.51	ug/L		87
56)	tert-butylbenzene	10.77	119	21617	0.49	ug/L		98
57)	1,2,4-trimethylbenzene	10.80	105	22333	0.53	ug/L		97
58)	sec-butylbenzene	10.89	105	30496	0.53	ug/L		98
59)	4-isopropyltoluene	10.97	119	25793	0.55	ug/L		98
60)	1,3-Dichlorobenzene	10.98	146	11500	0.50	ug/L		94
61)	1,4-Dichlorobenzene	11.03	146	10889	0.47	ug/L		95
62)	n-butylbenzene	11.20	91	23084	0.53	ug/L		99
63)	1,2-Dichlorobenzene	11.24	146	10212	0.52	ug/L		96
64)	Hexachloroethane	11.40	117	2279	3.97	ug/L	#	6
66)	1,2,4-trichlorobenzene	12.11	180	5686	0.55	ug/L		94
67)	hexachlorobutadiene	12.17	225	4421	0.57	ug/L	#	70
68)	naphthalene	12.26	128	6587	0.53	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	4987	0.63	ug/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL03.D Vial: 3
Acq On : 20 Jul 2017 8:32 am Operator: MGC
Sample : 1712752-CAL1 Inst : MS-V5
Misc : 1 VO-109-70507;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 8:46 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL05.D Vial: 5
Acq On : 20 Jul 2017 9:18 am Operator: MGC
Sample : 1712752-CAL2 Inst : MS-V5
Misc : 1 VO-109-70508;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:19 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	219386	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	341653	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	89283	10.00	ug/L	0.00
System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.91	65	66214	10.08	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 100.80%						
31) Toluene d8 SMC#2	8.60	98	421815	9.98	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 99.80%						
49) Bromofluorobenzene SMC#3	10.34	95	133853	10.12	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 101.20%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.76	85	10205	0.84	ug/L	98
3) Chloromethane	1.95	50	21928	1.05	ug/L	97
4) Vinyl chloride	2.07	62	17214	1.01	ug/L #	76
5) Bromomethane	2.44	94	8855	1.39	ug/L #	79
6) Chloroethane	2.57	64	12085	1.10	ug/L	85
7) Trichlorofluoromethane	2.87	101	13464	0.88	ug/L #	74
8) 1,1,2-Trichloro-1,2,2-trif	3.54	101	8620	0.88	ug/L #	76
9) 1,1-Dichloroethene	3.52	61	18131	0.97	ug/L	93
10) Methylene chloride	4.15	84	10296	1.07	ug/L	86
11) MTBE	4.49	73	13643	1.20	ug/L	91
12) T-1,2-dichloroethene	4.50	96	10984	0.96	ug/L	92
13) 1,1-Dichloroethane	5.05	63	23710	1.01	ug/L	97
14) 2,2-Dichloropropane	5.83	77	12259	3.73	ug/L #	1
15) Cis-1,2-dichloroethene	5.82	96	12328	1.10	ug/L #	81
16) Bromochloromethane	6.17	128	3878	1.06	ug/L #	100
17) Chloroform	6.33	83	17811	1.05	ug/L	94
18) 1,1,1-Trichloroethane	6.52	97	14284	1.11	ug/L #	74
19) 1,1-Dichloropropene	6.72	75	15992	1.02	ug/L	95
20) Carbon tetrachloride	6.71	119	8848	2.24	ug/L #	60
22) 1,2-Dichloroethane	7.00	62	9765	1.04	ug/L #	92
23) Benzene	6.93	78	48005	1.05	ug/L #	59
25) Trichloroethene	7.61	130	11662	0.94	ug/L	94
26) 1,2-Dichloropropane	7.83	63	13360	1.04	ug/L #	94
27) Dibromomethane	7.91	93	3278	0.99	ug/L #	75
28) Bromodichloromethane	8.05	83	8927	0.97	ug/L	94
29) 2-ceve	8.28	63	12934	3.96	ug/L	85
30) Cis-1,3-dichloropropene	8.40	75	11335	2.29	ug/L #	88
32) Toluene	8.65	92	29659	0.96	ug/L	82
33) Trans-1,3-dichloropropene	8.82	75	7084	3.30	ug/L	95
34) 1,1,2-Trichloroethane	8.97	97	5837	1.15	ug/L	89
35) Tetrachloroethene (PCE)	9.03	166	11556	1.01	ug/L #	89
36) 1,3-Dichloropropane	9.08	76	9108	1.10	ug/L	89
37) Dibromochloromethane	9.23	129	4037	2.38	ug/L #	87
38) 1,2-Dibromoethane	9.32	107	3858	1.51	ug/L	88
40) Chlorobenzene	9.64	112	31301	1.05	ug/L	96
41) 1,1,1,2-Tetrachloroethane	9.69	131	6727	1.47	ug/L #	59
42) Ethylbenzene	9.69	106	18778	1.06	ug/L	94
43) P+m-Xylene	9.77	106	44367	2.09	ug/L	96
44) O-Xylene	10.01	106	19724	1.01	ug/L	93
45) Styrene	10.02	104	31371	1.05	ug/L	96
46) Bromoform	10.16	173	1829	3.38	ug/L #	100
47) Isopropylbenzene	10.23	105	55335	1.09	ug/L	97
48) 1,1,2,2-Tetrachloroethane	10.41	83	4868	0.99	ug/L	96
50) 1,2,3-Trichloropropane	10.45	110	833	0.51	ug/L #	100
51) n-propylbenzene	10.47	91	67596	1.04	ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL05.D Vial: 5
Acq On : 20 Jul 2017 9:18 am Operator: MGC
Sample : 1712752-CAL2 Inst : MS-V5
Misc : 1 VO-109-70508;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:19 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

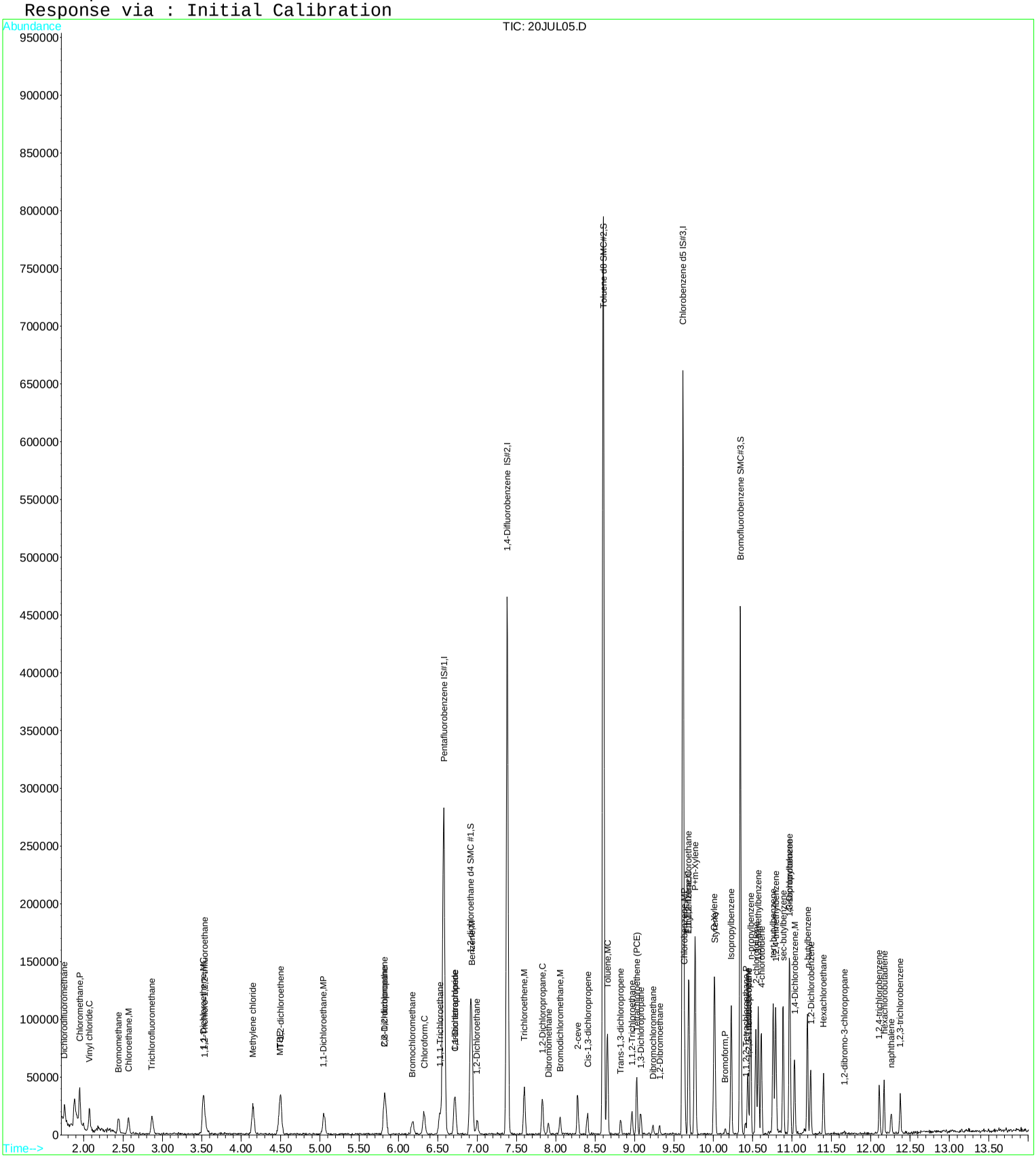
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52) bromobenzene	10.44	156	10864	1.06	ug/L		85
53) 1,3,5-trimethylbenzene	10.57	105	42696	1.01	ug/L		97
54) 2-chlorotoluene	10.54	91	46110	1.12	ug/L		98
55) 4-chlorotoluene	10.61	91	40015	1.04	ug/L		95
56) tert-butylbenzene	10.76	119	41937	0.98	ug/L		96
57) 1,2,4-trimethylbenzene	10.79	105	45106	1.10	ug/L		95
58) sec-butylbenzene	10.89	105	59925	1.06	ug/L		100
59) 4-isopropyltoluene	10.97	119	48357	1.05	ug/L		99
60) 1,3-Dichlorobenzene	10.98	146	23254	1.02	ug/L		93
61) 1,4-Dichlorobenzene	11.03	146	22114m	0.98	ug/L		
62) n-butylbenzene	11.20	91	45926	1.08	ug/L		97
63) 1,2-Dichlorobenzene	11.24	146	19114	1.00	ug/L		96
64) Hexachloroethane	11.40	117	4247	4.26	ug/L	#	15
65) 1,2-dibromo-3-chloropropan	11.66	75	581	4.25	ug/L	#	100
66) 1,2,4-trichlorobenzene	12.11	180	10744	1.07	ug/L		92
67) hexachlorobutadiene	12.18	225	7178	0.95	ug/L		87
68) naphthalene	12.26	128	11563	0.95	ug/L		100
69) 1,2,3-trichlorobenzene	12.38	180	8903	1.14	ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL05.D Vial: 5
Acq On : 20 Jul 2017 9:18 am Operator: MGC
Sample : 1712752-CAL2 Inst : MS-V5
Misc : 1 VO-109-70508;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:19 2017 Quant Results File: 82605.RES

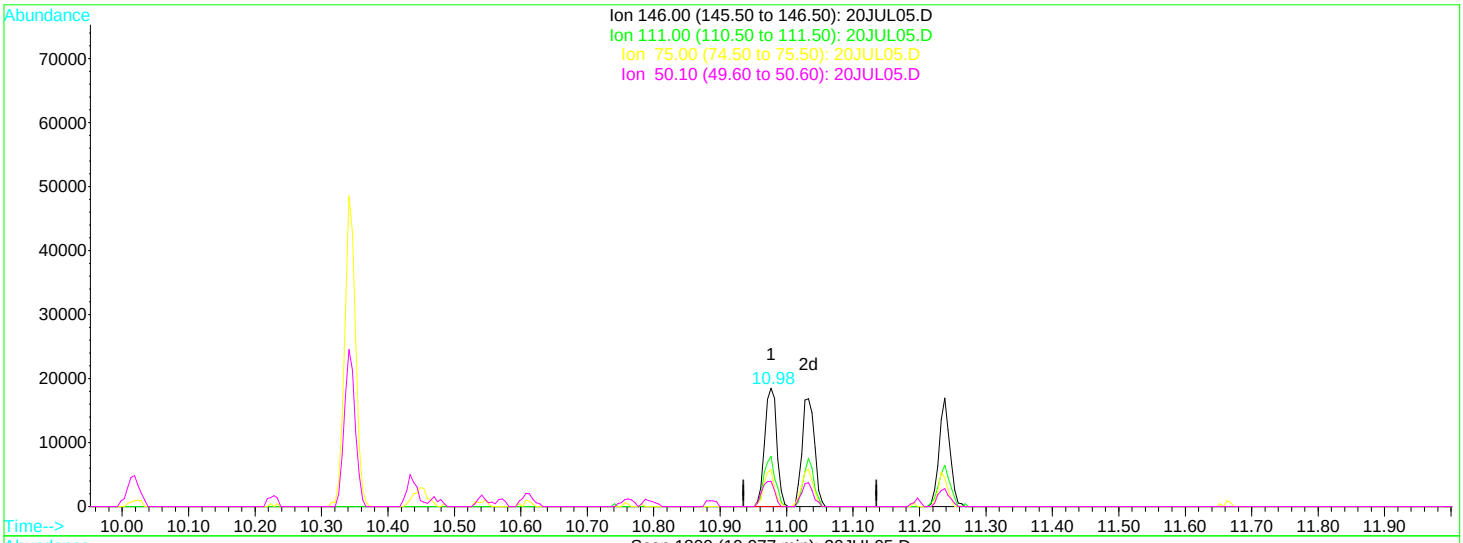
Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration

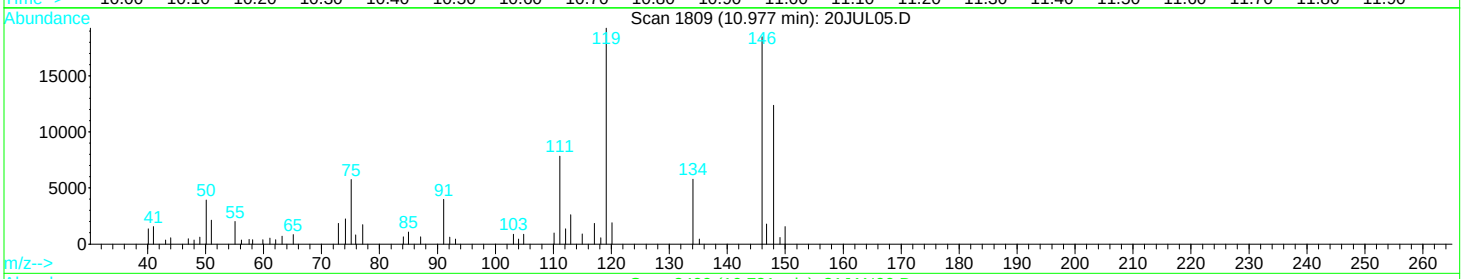


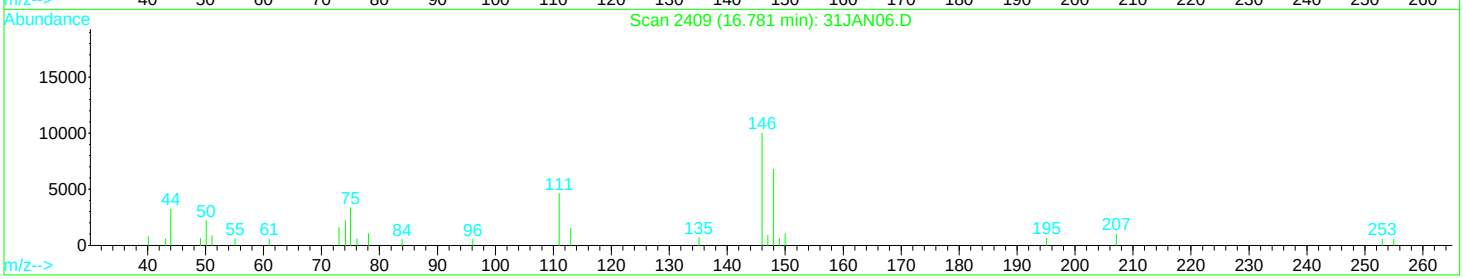
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL05.D Vial: 5
Acq On : 20 Jul 2017 9:18 am Operator: MGC
Sample : 1712752-CAL2 Inst : MS-V5
Misc : 1 VO-109-70508;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 9:33 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Multiple Level Calibration







TIC: 20JUL05.D

(61) 1,4-Dichlorobenzene (M)

10.98min 1.03ug/L

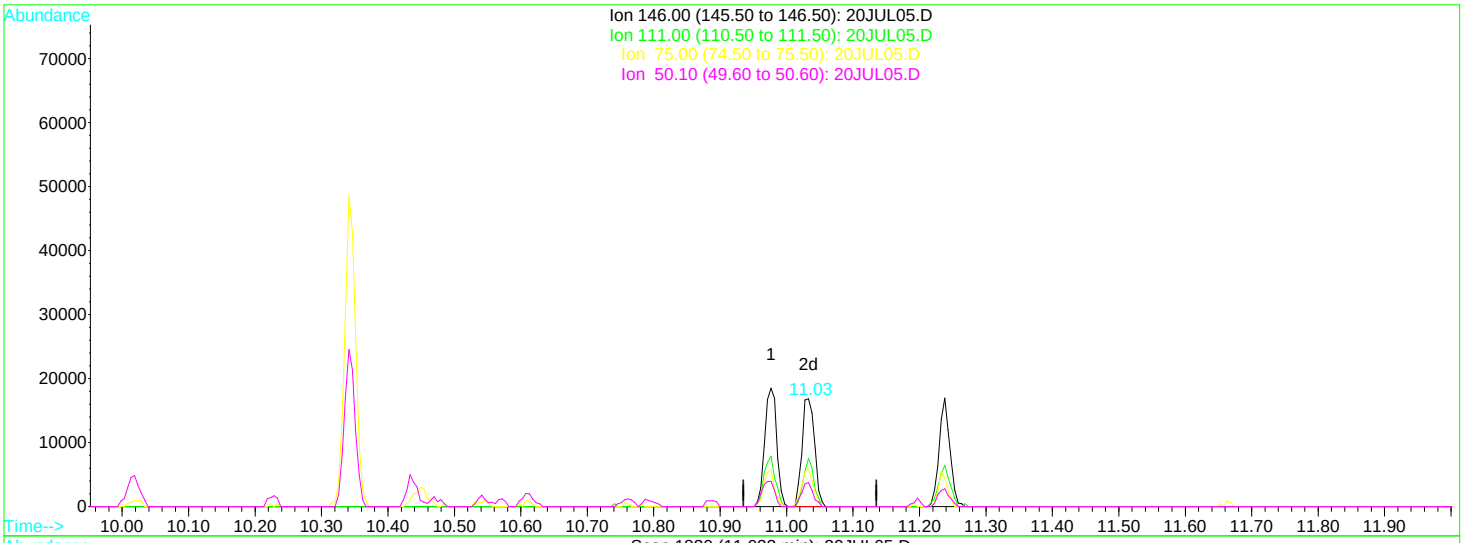
response 23250

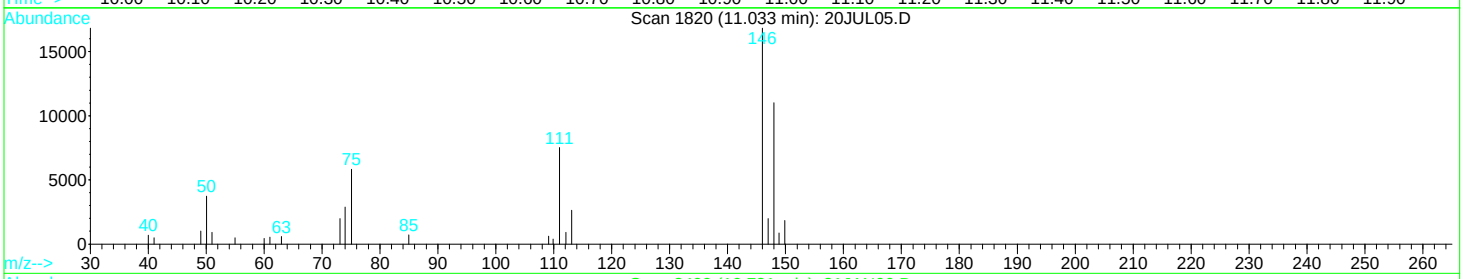
Ion	Exp%	Act%
146.00	100	100
111.00	41.60	39.83
75.00	24.40	27.84
50.10	20.80	22.45

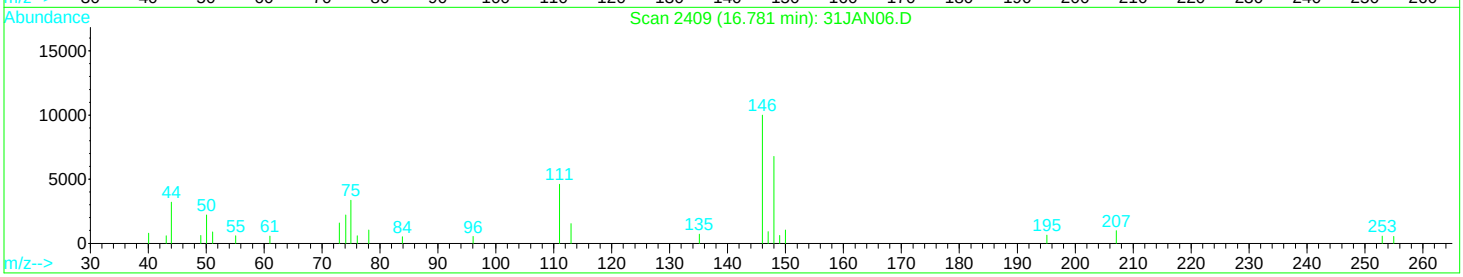
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL05.D Vial: 5
Acq On : 20 Jul 2017 9:18 am Operator: MGC
Sample : 1712752-CAL2 Inst : MS-V5
Misc : 1 VO-109-70508;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:19 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Multiple Level Calibration







TIC: 20JUL05.D

(61) 1,4-Dichlorobenzene (M)

11.03min 0.98ug/L m

response 22114

Ion	Exp%	Act%
146.00	100	100
111.00	41.60	41.88
75.00	24.40	29.27
50.10	20.80	23.60

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL06.D Vial: 6
Acq On : 20 Jul 2017 9:42 am Operator: MGC
Sample : 1712752-CAL3 Inst : MS-V5
Misc : 1 VO-109-70509;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 9:56 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	160100	10.00 ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	249503	10.00 ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	66101	10.00 ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	47251	9.86 ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 98.60%					
31) Toluene d8 SMC#2	8.60	98	305363	9.89 ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 98.90%					
49) Bromofluorobenzene SMC#3	10.34	95	99307	10.14 ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 101.40%					

Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.76	85	93410	10.56 ug/L	97
3) Chloromethane	1.95	50	157755	10.37 ug/L	100
4) Vinyl chloride	2.07	62	127041	10.21 ug/L	93
5) Bromomethane	2.44	94	67152	10.11 ug/L #	82
6) Chloroethane	2.57	64	86319	10.80 ug/L	87
7) Trichlorofluoromethane	2.87	101	107360	9.66 ug/L #	72
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	76401	10.68 ug/L	83
9) 1,1-Dichloroethene	3.52	61	141074	10.35 ug/L	97
10) Methylene chloride	4.15	84	73501	10.52 ug/L	96
11) MTBE	4.48	73	100477	12.07 ug/L	95
12) T-1,2-dichloroethene	4.50	96	85020	10.16 ug/L	95
13) 1,1-Dichloroethane	5.05	63	180828	10.54 ug/L	99
14) 2,2-Dichloropropane	5.83	77	102464	15.11 ug/L #	1
15) Cis-1,2-dichloroethene	5.82	96	85789	10.46 ug/L	89
16) Bromochloromethane	6.17	128	27302	10.21 ug/L #	77
17) Chloroform	6.33	83	124834	10.10 ug/L	93
18) 1,1,1-Trichloroethane	6.53	97	109656	11.72 ug/L #	78
19) 1,1-Dichloropropene	6.72	75	116536	10.14 ug/L	98
20) Carbon tetrachloride	6.71	119	77032	12.04 ug/L #	71
22) 1,2-Dichloroethane	7.00	62	70301	10.30 ug/L #	84
23) Benzene	6.94	78	348744	10.48 ug/L #	17
25) Trichloroethene	7.60	130	89913	9.88 ug/L	93
26) 1,2-Dichloropropane	7.83	63	97205	10.36 ug/L #	94
27) Dibromomethane	7.91	93	25725	10.65 ug/L #	76
28) Bromodichloromethane	8.05	83	73643	10.96 ug/L	99
29) 2-ceve	8.27	63	104717	43.90 ug/L #	75
30) Cis-1,3-dichloropropene	8.40	75	92090	11.19 ug/L #	82
32) Toluene	8.65	92	234614	10.35 ug/L	89
33) Trans-1,3-dichloropropene	8.82	75	61028	12.36 ug/L	97
34) 1,1,2-Trichloroethane	8.96	97	40551	10.91 ug/L	91
35) Tetrachloroethene (PCE)	9.03	166	86256	10.34 ug/L	90
36) 1,3-Dichloropropane	9.08	76	62221	10.30 ug/L	87
37) Dibromochloromethane	9.24	129	37739	10.50 ug/L #	78
38) 1,2-Dibromoethane	9.32	107	34074	10.91 ug/L #	67
40) Chlorobenzene	9.64	112	223358	10.12 ug/L	94
41) 1,1,1,2-Tetrachloroethane	9.69	131	55627	11.02 ug/L #	72
42) Ethylbenzene	9.69	106	136417	10.36 ug/L	99
43) P+m-Xylene	9.77	106	342735	21.77 ug/L	97
44) O-Xylene	10.01	106	159918	11.03 ug/L	90
45) Styrene	10.02	104	239018	10.79 ug/L	94
46) Bromoform	10.15	173	15682	11.19 ug/L #	100
47) Isopropylbenzene	10.23	105	416077	11.04 ug/L	94
48) 1,1,2,2-Tetrachloroethane	10.41	83	35710	9.83 ug/L	90
50) 1,2,3-Trichloropropane	10.45	110	7290	8.79 ug/L #	100
51) n-propylbenzene	10.48	91	526001	10.88 ug/L	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL06.D Vial: 6
Acq On : 20 Jul 2017 9:42 am Operator: MGC
Sample : 1712752-CAL3 Inst : MS-V5
Misc : 1 VO-109-70509;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 9:56 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

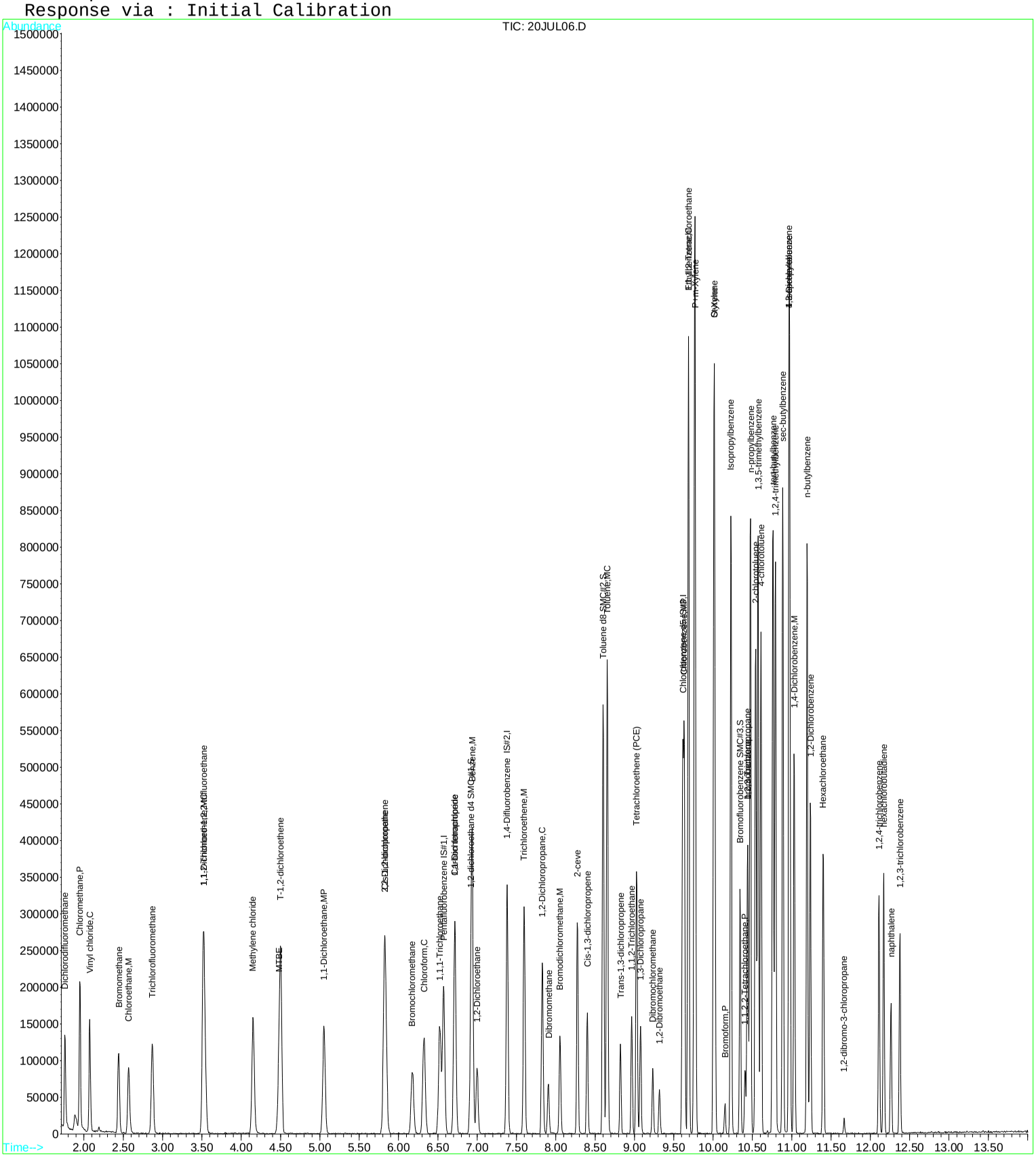
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52) bromobenzene	10.44	156	77430	10.19	ug/L		92
53) 1,3,5-trimethylbenzene	10.57	105	346993	11.13	ug/L		98
54) 2-chlorotoluene	10.54	91	333425	10.98	ug/L		97
55) 4-chlorotoluene	10.61	91	306897	10.82	ug/L		91
56) tert-butylbenzene	10.76	119	322495	10.13	ug/L		95
57) 1,2,4-trimethylbenzene	10.79	105	335852	11.03	ug/L		99
58) sec-butylbenzene	10.89	105	468278	11.21	ug/L		98
59) 4-isopropyltoluene	10.97	119	378285	11.11	ug/L		98
60) 1,3-Dichlorobenzene	10.97	146	178686	10.59	ug/L		92
61) 1,4-Dichlorobenzene	11.03	146	170376	10.17	ug/L		95
62) n-butylbenzene	11.19	91	345036	10.94	ug/L		99
63) 1,2-Dichlorobenzene	11.23	146	148352	10.47	ug/L		97
64) Hexachloroethane	11.40	117	44652	12.34	ug/L	#	1
65) 1,2-dibromo-3-chloropropan	11.66	75	4603	12.55	ug/L	#	100
66) 1,2,4-trichlorobenzene	12.11	180	81142	10.87	ug/L		96
67) hexachlorobutadiene	12.17	225	56205	10.05	ug/L		85
68) naphthalene	12.26	128	107810	11.94	ug/L		100
69) 1,2,3-trichlorobenzene	12.38	180	69823	12.11	ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL06.D Vial: 6
Acq On : 20 Jul 2017 9:42 am Operator: MGC
Sample : 1712752-CAL3 Inst : MS-V5
Misc : 1 VO-109-70509;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 9:56 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL07.D Vial: 7
Acq On : 20 Jul 2017 10:05 am Operator: MGC
Sample : 1712752-CAL4 Inst : MS-V5
Misc : 1 VO-109-70510;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:19 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	187618	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	281102	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	72968	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.91	65	55567	9.89	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 98.90%						
31) Toluene d8 SMC#2	8.60	98	350702	10.08	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 100.80%						
49) Bromofluorobenzene SMC#3	10.34	95	110978	10.27	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 102.70%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.76	85	233707	22.55	ug/L	95
3) Chloromethane	1.95	50	397043	22.27	ug/L	96
4) Vinyl chloride	2.07	62	330883	22.69	ug/L	89
5) Bromomethane	2.44	94	180127	22.55	ug/L #	82
6) Chloroethane	2.56	64	220423	23.54	ug/L	91
7) Trichlorofluoromethane	2.87	101	282193	21.68	ug/L #	72
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	196960	23.49	ug/L	84
9) 1,1-Dichloroethene	3.51	61	361355	22.61	ug/L	97
10) Methylene chloride	4.15	84	189832	23.17	ug/L	96
11) MTBE	4.48	73	268374	27.51	ug/L	95
12) T-1,2-dichloroethene	4.50	96	220131	22.45	ug/L	95
13) 1,1-Dichloroethane	5.05	63	474319	23.59	ug/L	100
14) 2,2-Dichloropropane	5.83	77	271108	30.80	ug/L #	1
15) Cis-1,2-dichloroethene	5.82	96	227870	23.70	ug/L	87
16) Bromochloromethane	6.18	128	72379	23.10	ug/L #	84
17) Chloroform	6.32	83	330492	22.81	ug/L	94
18) 1,1,1-Trichloroethane	6.53	97	295919	26.99	ug/L #	73
19) 1,1-Dichloropropene	6.71	75	298538	22.18	ug/L	97
20) Carbon tetrachloride	6.71	119	208396	26.04	ug/L #	68
22) 1,2-Dichloroethane	7.00	62	180628	22.58	ug/L #	84
23) Benzene	6.94	78	899294	23.06	ug/L #	13
25) Trichloroethene	7.60	130	235207	22.95	ug/L	94
26) 1,2-Dichloropropane	7.83	63	261395	24.72	ug/L #	93
27) Dibromomethane	7.91	93	63746	23.43	ug/L #	75
28) Bromodichloromethane	8.05	83	200332	26.46	ug/L	98
29) 2-ceve	8.27	63	274355	102.09	ug/L #	76
30) Cis-1,3-dichloropropene	8.40	75	254046	25.36	ug/L #	83
32) Toluene	8.65	92	598158	23.41	ug/L	89
33) Trans-1,3-dichloropropene	8.82	75	172658	27.30	ug/L	96
34) 1,1,2-Trichloroethane	8.96	97	106093	25.33	ug/L	92
35) Tetrachloroethene (PCE)	9.03	166	219320	23.35	ug/L	91
36) 1,3-Dichloropropane	9.08	76	171822	25.25	ug/L	89
37) Dibromochloromethane	9.24	129	109837	24.44	ug/L #	77
38) 1,2-Dibromoethane	9.32	107	87501	24.03	ug/L	74
40) Chlorobenzene	9.64	112	590580	24.23	ug/L	93
41) 1,1,1,2-Tetrachloroethane	9.69	131	157573	27.47	ug/L #	72
42) Ethylbenzene	9.69	106	352215	24.23	ug/L	98
43) P+m-Xylene	9.77	106	860494	49.52	ug/L	95
44) O-Xylene	10.01	106	412366	25.76	ug/L	89
45) Styrene	10.02	104	624390	25.53	ug/L	94
46) Bromoform	10.15	173	46962	25.84	ug/L #	100
47) Isopropylbenzene	10.23	105	1059489	25.47	ug/L	93
48) 1,1,2,2-Tetrachloroethane	10.41	83	103328	25.76	ug/L	92
50) 1,2,3-Trichloropropane	10.45	110	23022	25.64	ug/L #	100
51) n-propylbenzene	10.48	91	1289258	24.16	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL07.D Vial: 7
Acq On : 20 Jul 2017 10:05 am Operator: MGC
Sample : 1712752-CAL4 Inst : MS-V5
Misc : 1 VO-109-70510;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:19 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

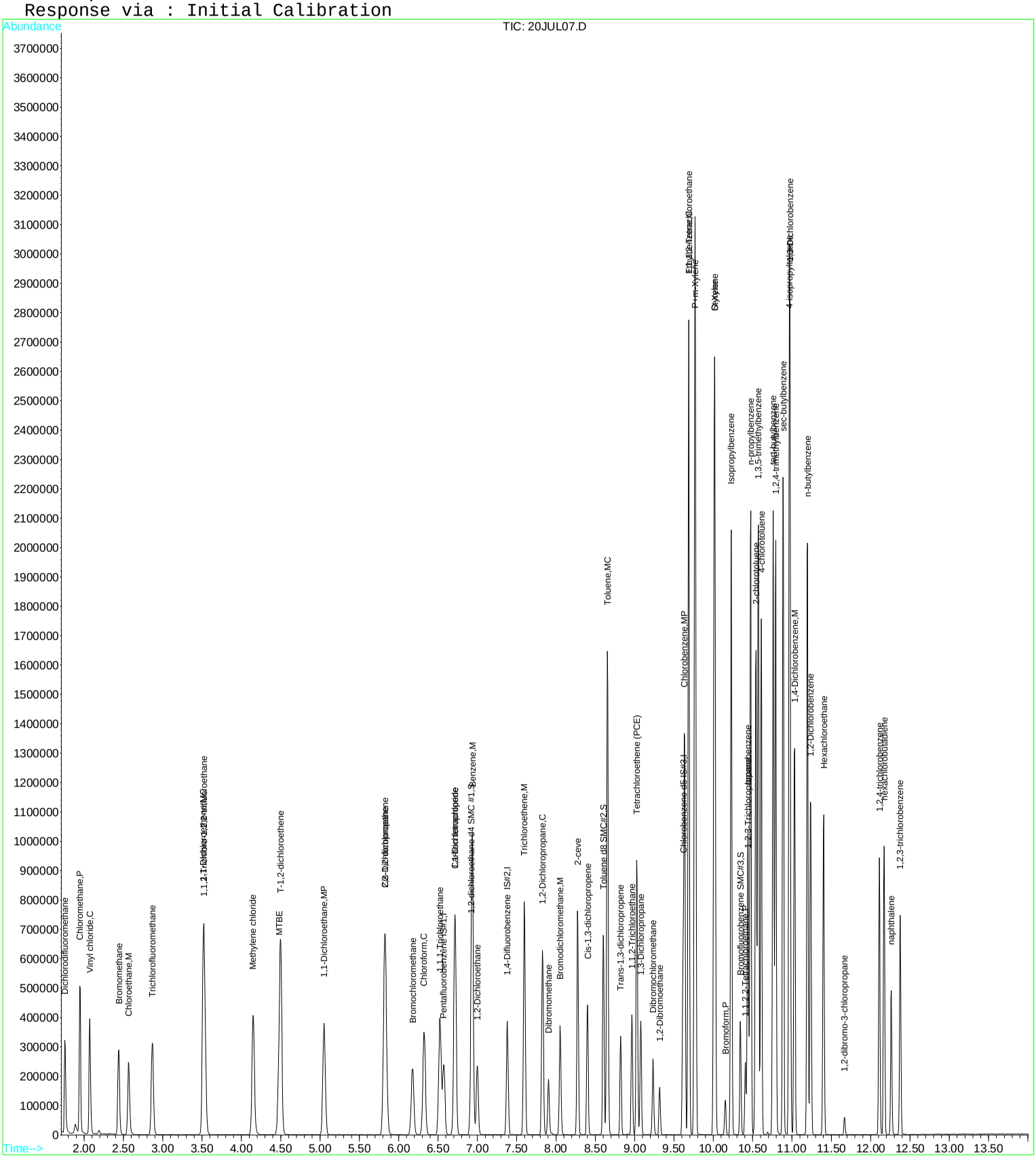
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	208206	24.82	ug/L		88
53)	1,3,5-trimethylbenzene	10.57	105	881972	25.63	ug/L		98
54)	2-chlorotoluene	10.54	91	849225	25.34	ug/L		97
55)	4-chlorotoluene	10.61	91	776277	24.79	ug/L		90
56)	tert-butylbenzene	10.76	119	911734	25.94	ug/L		89
57)	1,2,4-trimethylbenzene	10.79	105	846058	25.17	ug/L		97
58)	sec-butylbenzene	10.89	105	1197671	25.96	ug/L		99
59)	4-isopropyltoluene	10.97	119	962264	25.59	ug/L		98
60)	1,3-Dichlorobenzene	10.98	146	457160	24.54	ug/L		94
61)	1,4-Dichlorobenzene	11.03	146	450868	24.37	ug/L		96
62)	n-butylbenzene	11.20	91	877934	25.21	ug/L		98
63)	1,2-Dichlorobenzene	11.24	146	388191	24.82	ug/L		97
64)	Hexachloroethane	11.40	117	142974	28.86	ug/L	#	1
65)	1,2-dibromo-3-chloropropan	11.67	75	14154	28.88	ug/L	#	100
66)	1,2,4-trichlorobenzene	12.11	180	228207	27.70	ug/L		96
67)	hexachlorobutadiene	12.17	225	156478	25.35	ug/L		82
68)	naphthalene	12.26	128	294245	29.51	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	186210	29.25	ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL07.D Vial: 7
Acq On : 20 Jul 2017 10:05 am Operator: MGC
Sample : 1712752-CAL4 Inst : MS-V5
Misc : 1 VO-109-70510;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:19 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL08.D Vial: 8
Acq On : 20 Jul 2017 10:28 am Operator: MGC
Sample : 1712752-CAL5 Inst : MS-V5
Misc : 1 VO-109-70511;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:42 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	185328	10.00	ug/L		0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	283937	10.00	ug/L		0.00
39) Chlorobenzene d5 IS#3	9.62	119	75612	10.00	ug/L		0.00
System Monitoring Compounds							
21) 1,2-dichloroethane d4 SMC	6.92	65	52177	9.40	ug/L		0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 94.00%							
31) Toluene d8 SMC#2	8.60	98	352702	10.04	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 100.40%							
49) Bromofluorobenzene SMC#3	10.34	95	113132	10.10	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 101.00%							
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.76	85	489050	47.78	ug/L		95
3) Chloromethane	1.95	50	811231	46.07	ug/L		96
4) Vinyl chloride	2.07	62	680952	47.28	ug/L		90
5) Bromomethane	2.44	94	383525	48.08	ug/L	#	81
6) Chloroethane	2.57	64	450541	48.70	ug/L		91
7) Trichlorofluoromethane	2.87	101	583179	45.35	ug/L	#	72
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	406766	49.12	ug/L		82
9) 1,1-Dichloroethene	3.51	61	746260	47.28	ug/L		98
10) Methylene chloride	4.15	84	382650	47.29	ug/L		97
11) MTBE	4.48	73	565037	58.65	ug/L		96
12) T-1,2-dichloroethene	4.50	96	456593	47.14	ug/L		94
13) 1,1-Dichloroethane	5.05	63	985020	49.59	ug/L		99
14) 2,2-Dichloropropane	5.83	77	578292	63.44	ug/L	#	1
15) Cis-1,2-dichloroethene	5.82	96	470220	49.51	ug/L		87
16) Bromochloromethane	6.17	128	150553	48.65	ug/L	#	84
17) Chloroform	6.32	83	686790	47.99	ug/L		94
18) 1,1,1-Trichloroethane	6.53	97	626987	57.90	ug/L	#	71
19) 1,1-Dichloropropene	6.72	75	627972	47.22	ug/L		98
20) Carbon tetrachloride	6.71	119	445807	54.82	ug/L	#	65
22) 1,2-Dichloroethane	7.00	62	371453	47.00	ug/L	#	85
23) Benzene	6.94	78	1825949	47.40	ug/L	#	12
25) Trichloroethene	7.60	130	495793	47.88	ug/L		95
26) 1,2-Dichloropropane	7.83	63	539026	50.47	ug/L	#	93
27) Dibromomethane	7.90	93	138763	50.50	ug/L	#	76
28) Bromodichloromethane	8.05	83	423668	55.40	ug/L		98
29) 2-ceve	8.27	63	573300	211.21	ug/L	#	75
30) Cis-1,3-dichloropropene	8.40	75	542482	52.04	ug/L	#	84
32) Toluene	8.65	92	1203883	46.65	ug/L		92
33) Trans-1,3-dichloropropene	8.82	75	369933	55.15	ug/L		99
34) 1,1,2-Trichloroethane	8.96	97	215153	50.87	ug/L		92
35) Tetrachloroethene (PCE)	9.03	166	458944	48.37	ug/L		91
36) 1,3-Dichloropropane	9.08	76	359418	52.30	ug/L		89
37) Dibromochloromethane	9.23	129	236453	50.18	ug/L	#	79
38) 1,2-Dibromoethane	9.32	107	185626	49.73	ug/L		73
40) Chlorobenzene	9.64	112	1199627	47.50	ug/L		94
41) 1,1,1,2-Tetrachloroethane	9.69	131	335607	55.90	ug/L		74
42) Ethylbenzene	9.69	106	728758	48.38	ug/L		88
43) P+m-Xylene	9.77	106	1720122	95.52	ug/L		88
44) O-Xylene	10.01	106	820982	49.50	ug/L		89
45) Styrene	10.02	104	1265285	49.93	ug/L		94
46) Bromoform	10.15	173	103405	51.93	ug/L	#	100
47) Isopropylbenzene	10.23	105	2058135	47.75	ug/L		91
48) 1,1,2,2-Tetrachloroethane	10.40	83	209018	50.28	ug/L		88
50) 1,2,3-Trichloropropane	10.45	110	46293	49.99	ug/L	#	100
51) n-propylbenzene	10.48	91	2486908	44.98	ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL08.D Vial: 8
Acq On : 20 Jul 2017 10:28 am Operator: MGC
Sample : 1712752-CAL5 Inst : MS-V5
Misc : 1 VO-109-70511;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:42 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

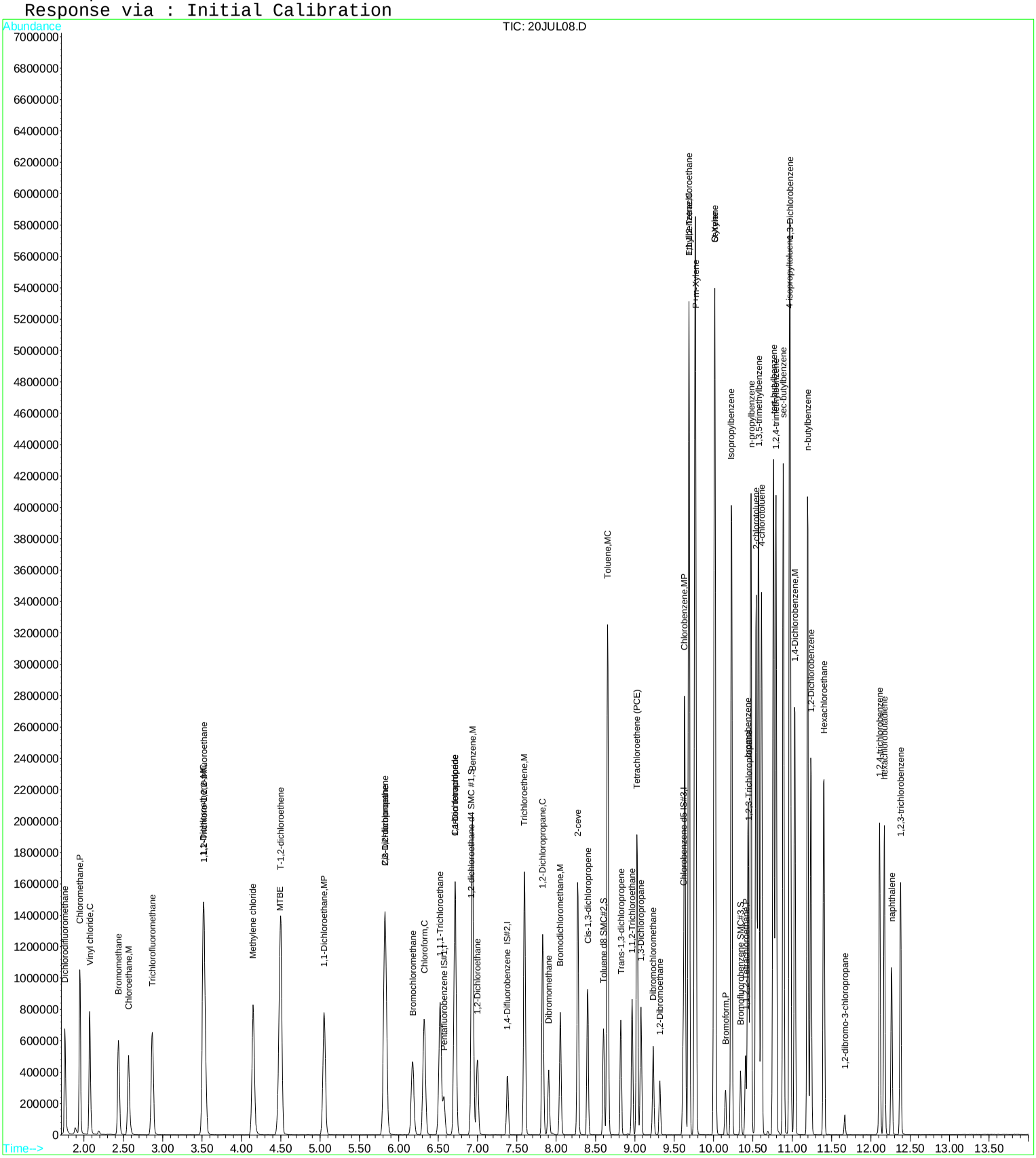
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	431566	49.65	ug/L		87
53)	1,3,5-trimethylbenzene	10.57	105	1748994	49.05	ug/L		96
54)	2-chlorotoluene	10.54	91	1732739	49.90	ug/L		94
55)	4-chlorotoluene	10.61	91	1522073	46.91	ug/L		86
56)	tert-butylbenzene	10.76	119	1651439	45.35	ug/L		96
57)	1,2,4-trimethylbenzene	10.79	105	1707838	49.03	ug/L		94
58)	sec-butylbenzene	10.89	105	2289268	47.89	ug/L		95
59)	4-isopropyltoluene	10.97	119	1837385	47.16	ug/L		96
60)	1,3-Dichlorobenzene	10.98	146	927038	48.02	ug/L		93
61)	1,4-Dichlorobenzene	11.03	146	927481	48.39	ug/L		95
62)	n-butylbenzene	11.19	91	1757111	48.70	ug/L		96
63)	1,2-Dichlorobenzene	11.24	146	816300	50.36	ug/L		95
64)	Hexachloroethane	11.40	117	338530	61.25	ug/L	#	1
65)	1,2-dibromo-3-chloropropan	11.66	75	28130	52.27	ug/L	#	100
66)	1,2,4-trichlorobenzene	12.11	180	488995	57.27	ug/L		94
67)	hexachlorobutadiene	12.17	225	330304	51.64	ug/L		81
68)	naphthalene	12.26	128	645395	62.47	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	404558	61.33	ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL08.D Vial: 8
Acq On : 20 Jul 2017 10:28 am Operator: MGC
Sample : 1712752-CAL5 Inst : MS-V5
Misc : 1 VO-109-70511;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 10:42 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL09.D Vial: 9
Acq On : 20 Jul 2017 10:51 am Operator: MGC
Sample : 1712752-CAL6 Inst : MS-V5
Misc : 1 VO-109-70512;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 11:17 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	190235	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	291095	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	79131	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	52606	9.24	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 92.40%						
31) Toluene d8 SMC#2	8.60	98	361125	10.02	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 100.20%						
49) Bromofluorobenzene SMC#3	10.35	95	119244	10.17	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 101.70%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.76	85	968491	92.18	ug/L	94
3) Chloromethane	1.95	50	1582330	87.55	ug/L	95
4) Vinyl chloride	2.07	62	1339863	90.62	ug/L	90
5) Bromomethane	2.43	94	784813	95.38	ug/L #	82
6) Chloroethane	2.56	64	904760	95.28	ug/L	91
7) Trichlorofluoromethane	2.86	101	1169918	88.63	ug/L #	72
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	827800	97.39	ug/L	82
9) 1,1-Dichloroethene	3.51	61	1454487	89.77	ug/L	96
10) Methylene chloride	4.15	84	782570	94.22	ug/L	99
11) MTBE	4.48	73	1135341	114.80	ug/L	96
12) T-1,2-dichloroethene	4.50	96	923699	92.92	ug/L	91
13) 1,1-Dichloroethane	5.05	63	1917451	94.05	ug/L	99
14) 2,2-Dichloropropane	5.83	77	1166561	122.13	ug/L #	1
15) Cis-1,2-dichloroethene	5.82	96	959200	98.40	ug/L	85
16) Bromochloromethane	6.18	128	311515	98.07	ug/L #	90
17) Chloroform	6.32	83	1363741	92.83	ug/L	92
18) 1,1,1-Trichloroethane	6.52	97	1261866	113.52	ug/L #	70
19) 1,1-Dichloropropene	6.72	75	1237502	90.66	ug/L	97
20) Carbon tetrachloride	6.71	119	903203	106.90	ug/L #	66
22) 1,2-Dichloroethane	7.00	62	735383	90.65	ug/L #	86
23) Benzene	6.94	78	3475353	87.89	ug/L #	12
25) Trichloroethene	7.60	130	1001087	94.31	ug/L	95
26) 1,2-Dichloropropane	7.83	63	1075561	98.23	ug/L #	92
27) Dibromomethane	7.90	93	286571	101.73	ug/L #	76
28) Bromodichloromethane	8.05	83	869037	110.85	ug/L	98
29) 2-ceve	8.28	63	1143478	410.90	ug/L #	74
30) Cis-1,3-dichloropropene	8.40	75	1103839	101.90	ug/L #	84
32) Toluene	8.65	92	2287718	86.47	ug/L	98
33) Trans-1,3-dichloropropene	8.82	75	767736	109.12	ug/L	99
34) 1,1,2-Trichloroethane	8.97	97	446863	103.05	ug/L	92
35) Tetrachloroethene (PCE)	9.03	166	916653	94.22	ug/L	91
36) 1,3-Dichloropropane	9.07	76	715185	101.51	ug/L	88
37) Dibromochloromethane	9.23	129	501363	101.99	ug/L #	78
38) 1,2-Dibromoethane	9.32	107	385684	100.11	ug/L	73
40) Chlorobenzene	9.63	112	2281077	86.31	ug/L	93
41) 1,1,1,2-Tetrachloroethane	9.69	131	644759	102.17	ug/L #	71
42) Ethylbenzene	9.69	106	1369792	86.89	ug/L	71
43) P+m-Xylene	9.77	106	3044741	161.56	ug/L	75
44) O-Xylene	10.01	106	1555446	89.61	ug/L	81
45) Styrene	10.02	104	2310367	87.11	ug/L	94
46) Bromoform	10.15	173	232645	108.61	ug/L #	100
47) Isopropylbenzene	10.23	105	3519654	78.02	ug/L #	81
48) 1,1,2,2-Tetrachloroethane	10.41	83	442065	101.62	ug/L	90
50) 1,2,3-Trichloropropane	10.45	110	99524	102.96	ug/L #	100
51) n-propylbenzene	10.47	91	3994962	69.05	ug/L	86

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL09.D Vial: 9
Acq On : 20 Jul 2017 10:51 am Operator: MGC
Sample : 1712752-CAL6 Inst : MS-V5
Misc : 1 VO-109-70512;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 11:17 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

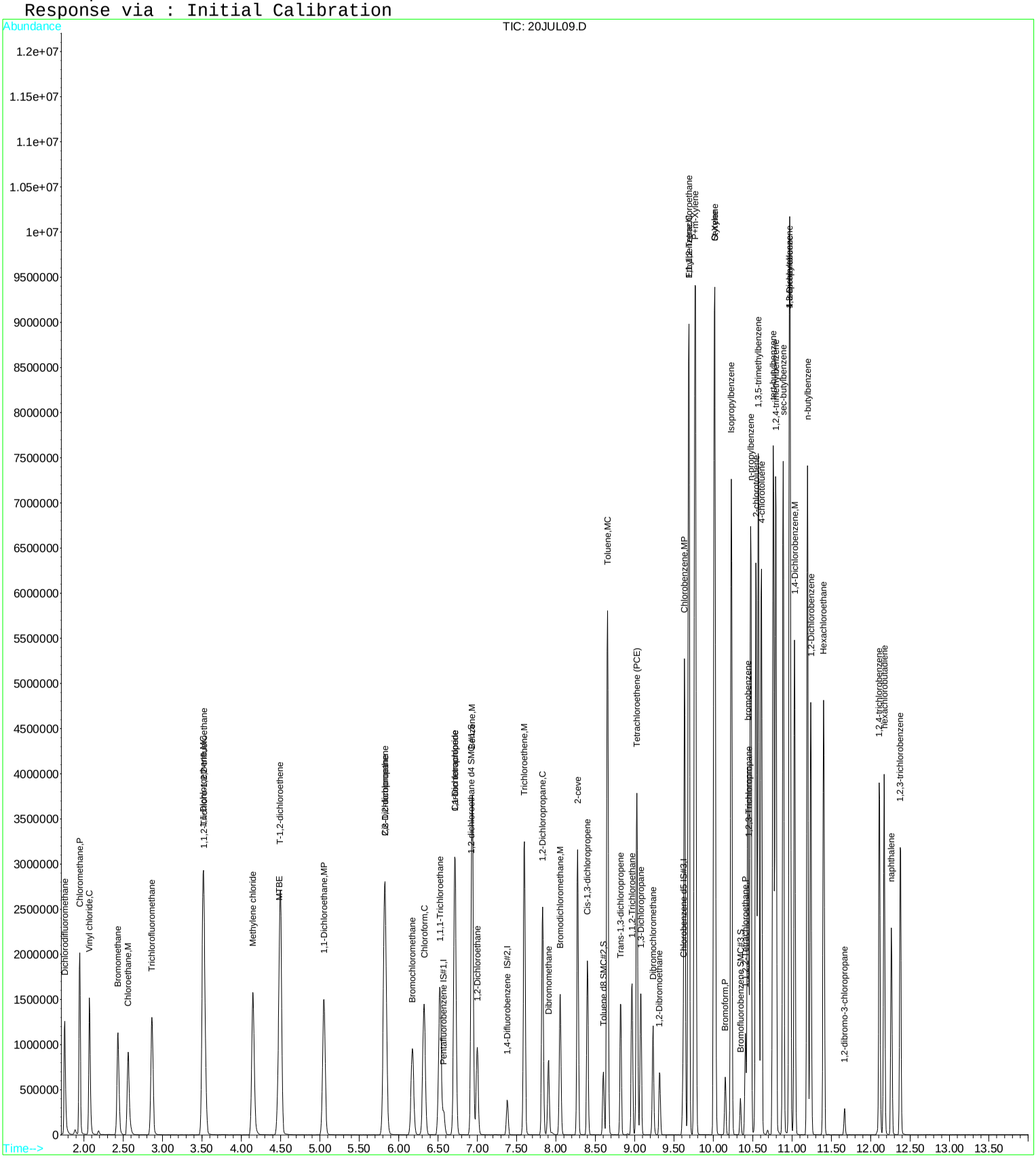
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	883596	97.12	ug/L		86
53)	1,3,5-trimethylbenzene	10.57	105	3042409	81.53	ug/L		88
54)	2-chlorotoluene	10.54	91	3108517	85.54	ug/L		88
55)	4-chlorotoluene	10.61	91	2812921m	82.84	ug/L		
56)	tert-butylbenzene	10.76	119	3375108	88.55	ug/L		90
57)	1,2,4-trimethylbenzene	10.79	105	3034120	83.23	ug/L		88
58)	sec-butylbenzene	10.89	105	3766201	75.29	ug/L	#	84
59)	4-isopropyltoluene	10.97	119	3123617	76.61	ug/L		90
60)	1,3-Dichlorobenzene	10.98	146	1743457	86.30	ug/L		92
61)	1,4-Dichlorobenzene	11.03	146	1807605	90.11	ug/L		96
62)	n-butylbenzene	11.20	91	3076408	81.47	ug/L	#	89
63)	1,2-Dichlorobenzene	11.24	146	1598367	94.22	ug/L		96
64)	Hexachloroethane	11.40	117	733609	122.92	ug/L	#	1
65)	1,2-dibromo-3-chloropropan	11.67	75	63145	108.23	ug/L	#	100
66)	1,2,4-trichlorobenzene	12.11	180	1002881	112.23	ug/L		95
67)	hexachlorobutadiene	12.17	225	656383	98.06	ug/L		83
68)	naphthalene	12.26	128	1360035	125.78	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	828865	120.07	ug/L		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL09.D Vial: 9
Acq On : 20 Jul 2017 10:51 am Operator: MGC
Sample : 1712752-CAL6 Inst : MS-V5
Misc : 1 VO-109-70512;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 11:17 2017 Quant Results File: 82605.RES

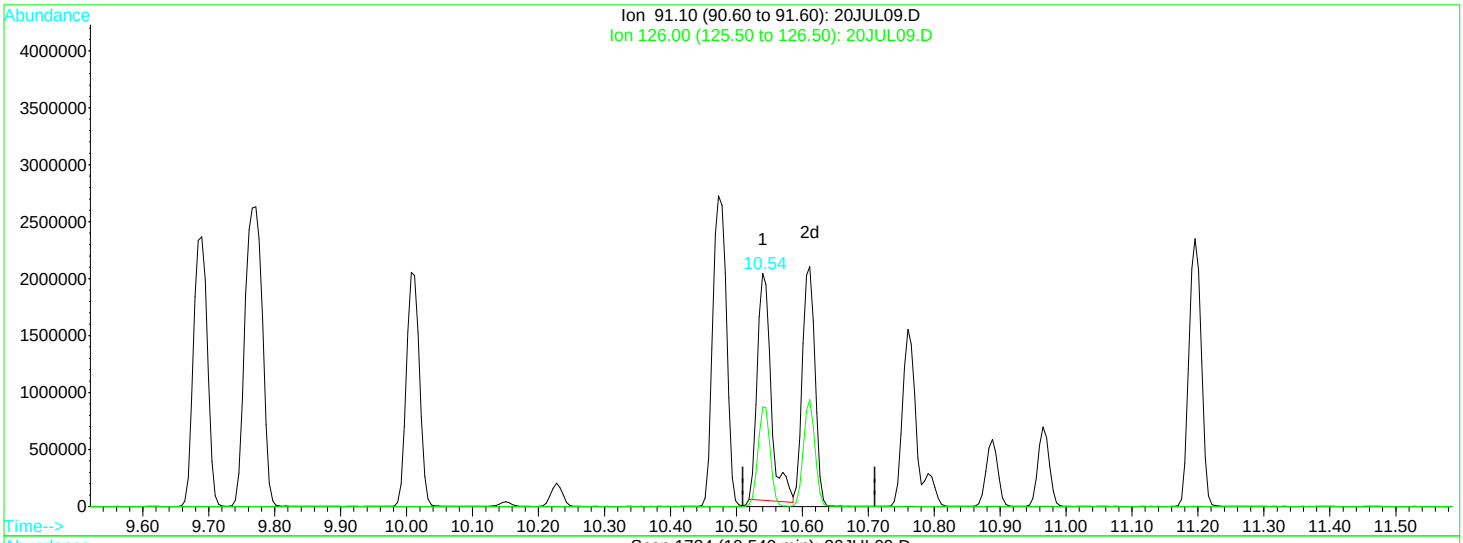
Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration

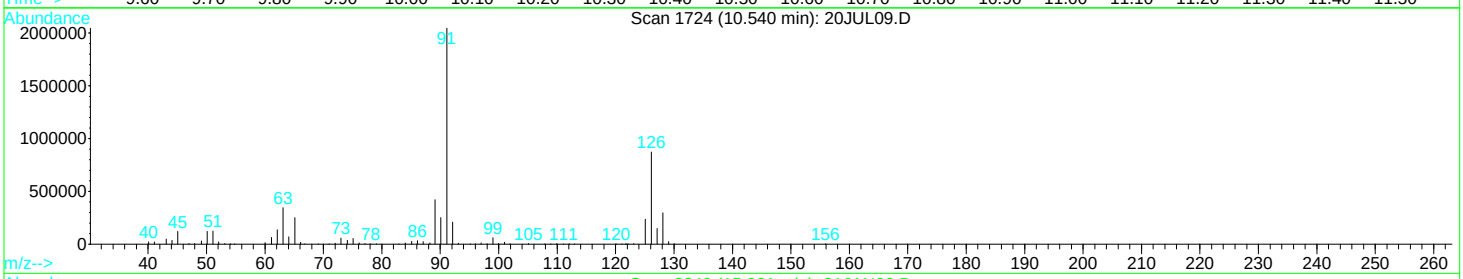


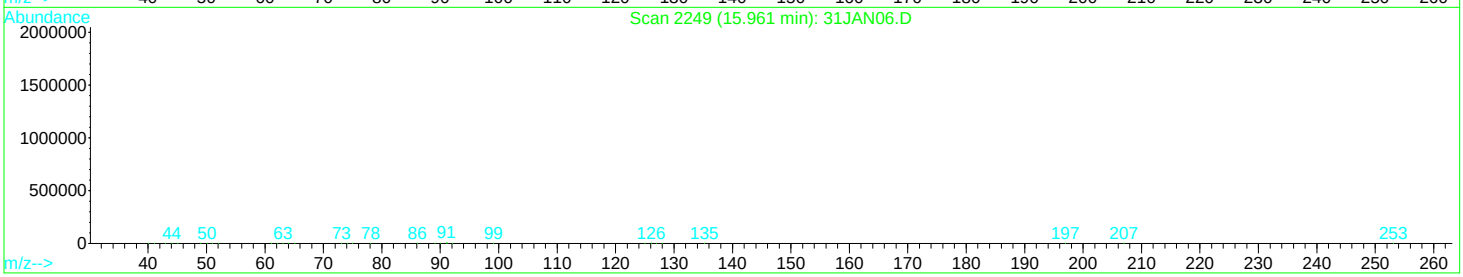
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL09.D Vial: 9
Acq On : 20 Jul 2017 10:51 am Operator: MGC
Sample : 1712752-CAL6 Inst : MS-V5
Misc : 1 VO-109-70512;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 11:05 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Multiple Level Calibration







TIC: 20JUL09.D

(55) 4-chlorotoluene

10.54min 85.95ug/L

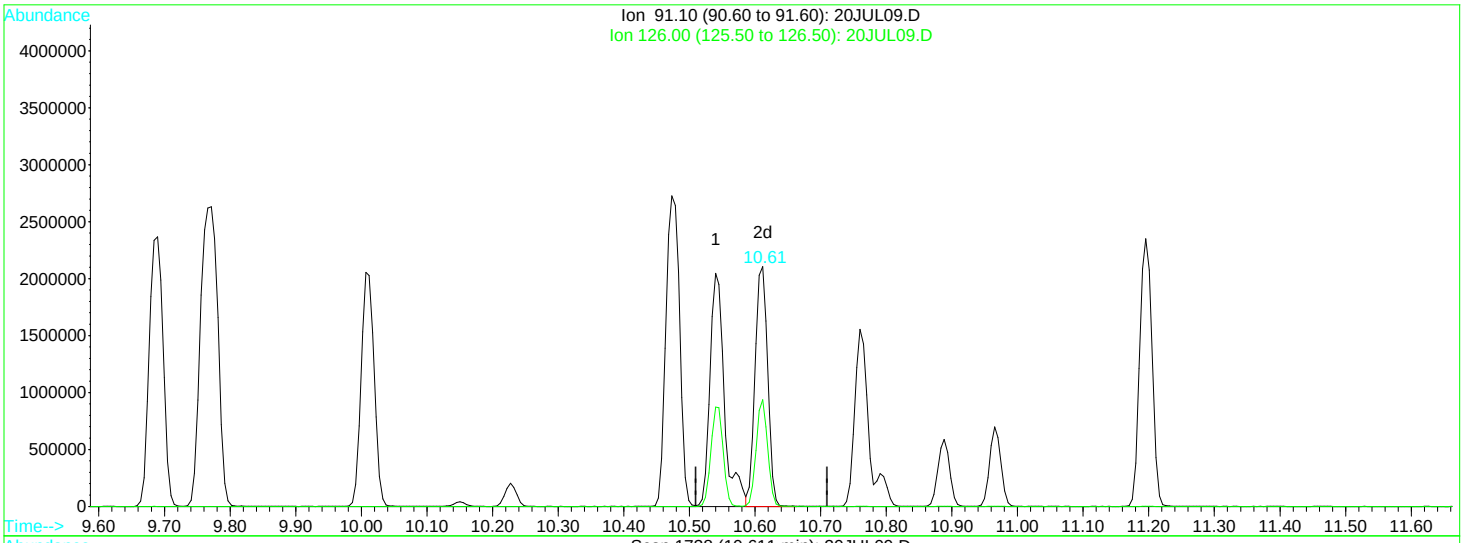
response 2918491

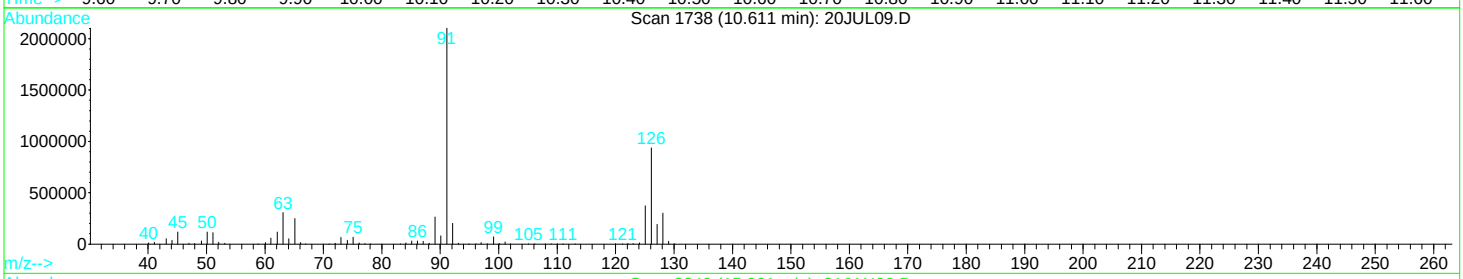
Ion	Exp%	Act%
91.10	100	100
126.00	29.80	38.19
0.00	0.00	0.00
0.00	0.00	0.00

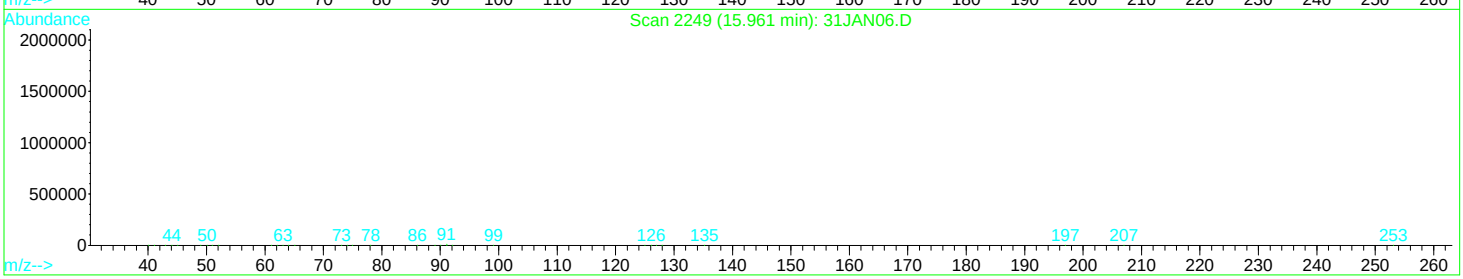
Quantitation Report (Qedit)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL09.D Vial: 9
Acq On : 20 Jul 2017 10:51 am Operator: MGC
Sample : 1712752-CAL6 Inst : MS-V5
Misc : 1 VO-109-70512;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 11:17 2017 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Multiple Level Calibration







TIC: 20JUL09.D

(55) 4-chlorotoluene

10.61min 82.84ug/L m

response 2812921

Ion	Exp%	Act%
91.10	100	100
126.00	29.80	39.63#
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL15.D Vial: 15
Acq On : 20 Jul 2017 1:09 pm Operator: MGC
Sample : 1712752-CAL7 Inst : MS-V5
Misc : 1 VO-109-70524;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 13:52 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	185398	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	284772	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.62	119	74464	10.00	ug/L		0.00

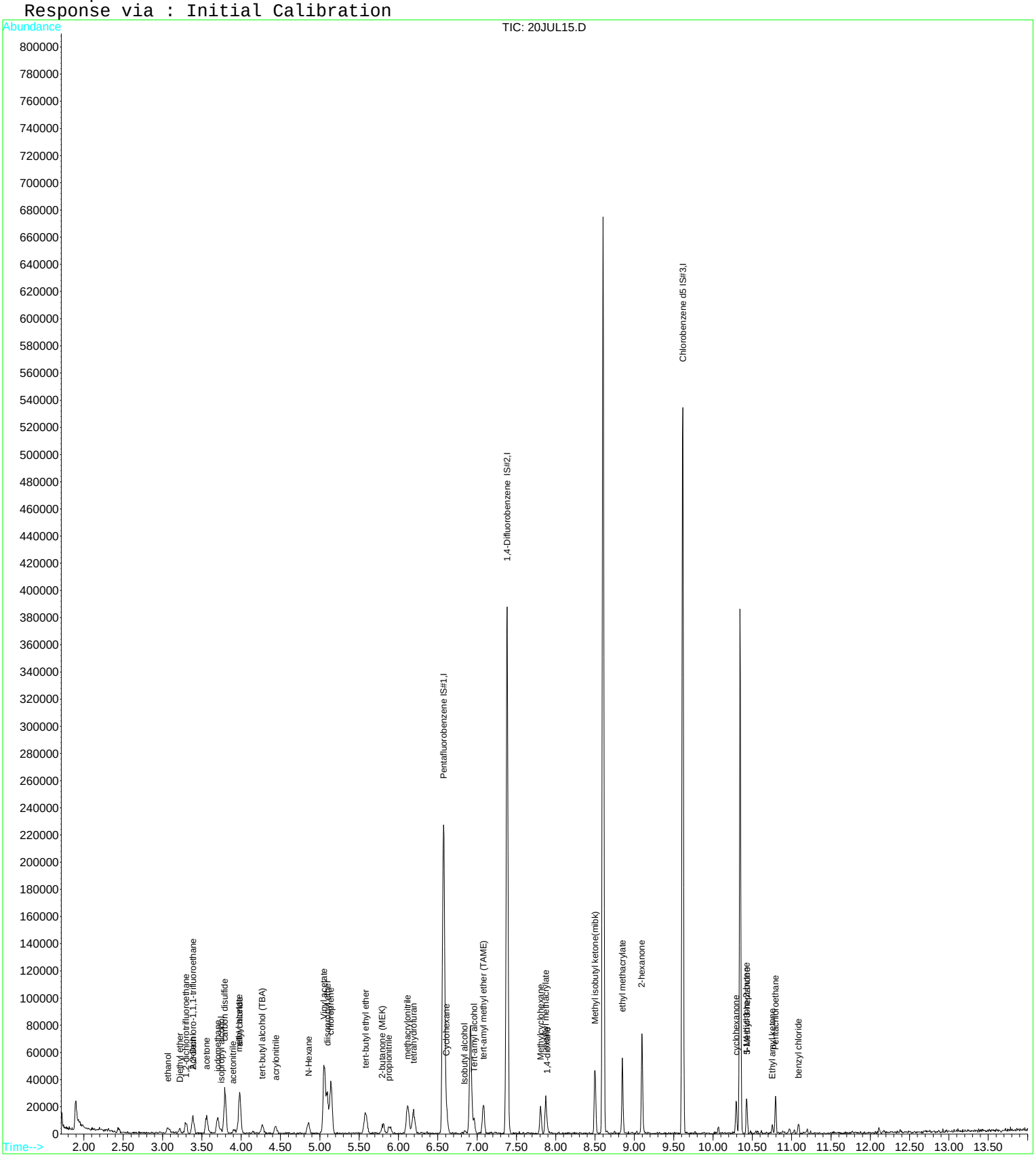
Target Compounds							Qvalue
2) ethanol	3.07	45	6669	237.41	ug/L	#	74
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	8420	0.48	ug/L	#	97
4) 1,2-dichlorotrifluoroethan	3.30	67	6359	0.54	ug/L		95
5) Diethyl ether	3.22	59	1957	0.40	ug/L		93
6) isopropyl alcohol	3.74	45	5048	38.17	ug/L	#	61
7) Acrolein	3.39	56	3657	7.77	ug/L		90
8) acetone	3.56	43	17541	21.07	ug/L		96
9) tert-butyl alcohol (TBA)	4.27	59	8481	49.09	ug/L		100
10) acetonitrile	3.90	41	3998	10.33	ug/L	#	17
11) methyl acetate	3.97	43	11350	4.98	ug/L		98
12) allyl chloride	3.98	41	31171	1.67	ug/L		99
13) iodomethane	3.70	142	15966	1.40	ug/L		99
14) acrylonitrile	4.44	53	5148	3.81	ug/L	#	94
15) carbon disulfide	3.79	76	47833	1.70	ug/L		97
16) N-Hexane	4.86	57	4627	0.37	ug/L	#	67
17) diisopropyl ether	5.10	87	6251	0.91	ug/L		97
18) Vinyl acetate	5.05	43	102573	11.40	ug/L		99
19) chloroprene	5.14	53	31785	1.57	ug/L		88
20) tert-butyl ethyl ether	5.59	59	20227	1.08	ug/L		93
21) 2-butanone (MEK)	5.79	43	12269	8.65	ug/L	#	75
22) propionitrile	5.88	54	8801	18.19	ug/L	#	93
23) Isobutyl alcohol	6.84	43	1703	58.05	ug/L	#	72
24) methacrylonitrile	6.12	67	11704	9.39	ug/L		88
25) Tert-amyl alcohol	6.96	59	7446	338.59	ug/L	#	66
26) tetrahydrofuran	6.19	42	16283	17.10	ug/L		95
27) Cyclohexane	6.61	56	13741	0.55	ug/L	#	68
28) tert-amyl methyl ether (TA	7.09	73	11082	1.05	ug/L	#	75
30) methyl methacrylate	7.87	69	9451	4.86	ug/L		99
31) Methylcyclohexane	7.80	55	7620	0.44	ug/L		89
32) 1,4-dioxane	7.89	88	2808	100.34	ug/L		84
33) Methyl isobutyl ketone(mib	8.50	43	29360	9.06	ug/L		96
34) ethyl methacrylate	8.85	69	21126	5.01	ug/L		94
35) 2-hexanone	9.09	43	40486	18.67	ug/L		98
37) 5-Methyl-3-heptanone	10.44	43	3036	0.90	ug/L	#	81
38) cyclohexanone	10.29	55	9469	52.48	ug/L		93
39) t-1,4-dichloro-2-butene	10.43	75	2405	8.17	ug/L	#	50
40) Ethyl amyl ketone	10.76	57	1285	0.43	ug/L	#	89
41) Pentachloroethane	10.79	167	2461	2.44	ug/L		89
42) benzyl chloride	11.09	91	5221	4.23	ug/L	#	57

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL15.D Vial: 15
Acq On : 20 Jul 2017 1:09 pm Operator: MGC
Sample : 1712752-CAL7 Inst : MS-V5
Misc : 1 VO-109-70524;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 13:52 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-1232\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL17.D Vial: 17
Acq On : 20 Jul 2017 1:55 pm Operator: MGC
Sample : 1712752-CAL8 Inst : MS-V5
Misc : 1 VO-109-70525;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 14:21 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	181609	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	282158	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.61	119	74489	10.00	ug/L		0.00

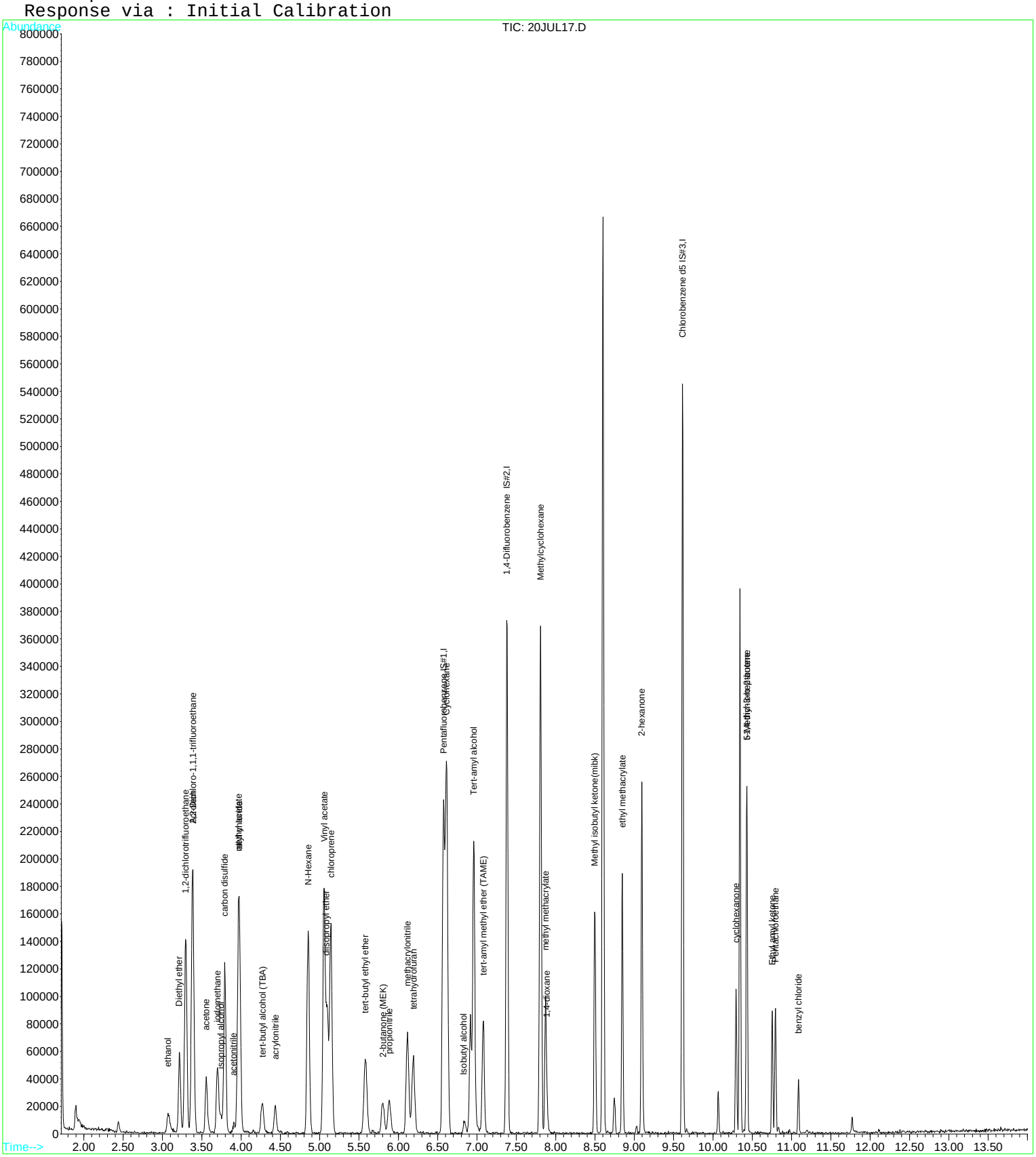
Target Compounds							Qvalue
2) ethanol	3.07	45	24231	880.61	ug/L	#	42
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	139435	8.06	ug/L	#	76
4) 1,2-dichlorotrifluoroethan	3.30	67	95716	8.30	ug/L	#	85
5) Diethyl ether	3.22	59	36853	7.68	ug/L		85
6) isopropyl alcohol	3.74	45	24483	188.97	ug/L	#	48
7) Acrolein	3.39	56	12111	26.26	ug/L	#	57
8) acetone	3.56	43	53458	65.55	ug/L		93
9) tert-butyl alcohol (TBA)	4.27	59	35214	208.08	ug/L		100
10) acetonitrile	3.90	41	11392	30.06	ug/L		92
11) methyl acetate	3.97	43	183134	81.98	ug/L		94
12) allyl chloride	3.98	41	121027	6.64	ug/L		100
13) iodomethane	3.70	142	65253	5.82	ug/L		96
14) acrylonitrile	4.44	53	19247	14.55	ug/L		88
15) carbon disulfide	3.79	76	184809	6.70	ug/L		98
16) N-Hexane	4.85	57	93481	7.68	ug/L	#	84
17) diisopropyl ether	5.09	87	21528	3.19	ug/L		96
18) Vinyl acetate	5.05	43	349748	39.68	ug/L		97
19) chloroprene	5.14	53	129340	6.52	ug/L		91
20) tert-butyl ethyl ether	5.59	59	72044	3.92	ug/L		96
21) 2-butanone (MEK)	5.80	43	44212	31.81	ug/L	#	88
22) propionitrile	5.88	54	37744	79.64	ug/L	#	91
23) Isobutyl alcohol	6.83	43	7785	131.68	ug/L	#	76
24) methacrylonitrile	6.12	67	38110	31.21	ug/L		93
25) Tert-amyl alcohol	6.96	59	138382	1103.30	ug/L	#	65
26) tetrahydrofuran	6.19	42	60102	64.44	ug/L		98
27) Cyclohexane	6.62	56	183532	7.51	ug/L	#	74
28) tert-amyl methyl ether (TA	7.08	73	39088	3.77	ug/L		79
30) methyl methacrylate	7.88	69	32411	16.83	ug/L		88
31) Methylcyclohexane	7.81	55	138472	8.11	ug/L		92
32) 1,4-dioxane	7.89	88	10018	361.29	ug/L		96
33) Methyl isobutyl ketone(mib	8.50	43	101652	31.67	ug/L		96
34) ethyl methacrylate	8.85	69	75440	18.04	ug/L		95
35) 2-hexanone	9.09	43	138228	64.34	ug/L		99
37) 5-Methyl-3-heptanone	10.43	43	54948	16.26	ug/L		97
38) cyclohexanone	10.29	55	39500	218.83	ug/L		97
39) t-1,4-dichloro-2-butene	10.43	75	10413	28.03	ug/L	#	41
40) Ethyl amyl ketone	10.75	57	22893	7.59	ug/L	#	75
41) Pentachloroethane	10.79	167	9109	4.69	ug/L	#	87
42) benzyl chloride	11.09	91	20812	11.38	ug/L	#	55

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL17.D Vial: 17
Acq On : 20 Jul 2017 1:55 pm Operator: MGC
Sample : 1712752-CAL8 Inst : MS-V5
Misc : 1 VO-109-70525;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 14:21 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-1232\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL18.D Vial: 18
Acq On : 20 Jul 2017 2:18 pm Operator: MGC
Sample : 1712752-CAL9 Inst : MS-V5
Misc : 1 VO-109-70526;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:12 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	177625	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	272450	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.62	119	69283	10.00	ug/L		0.00

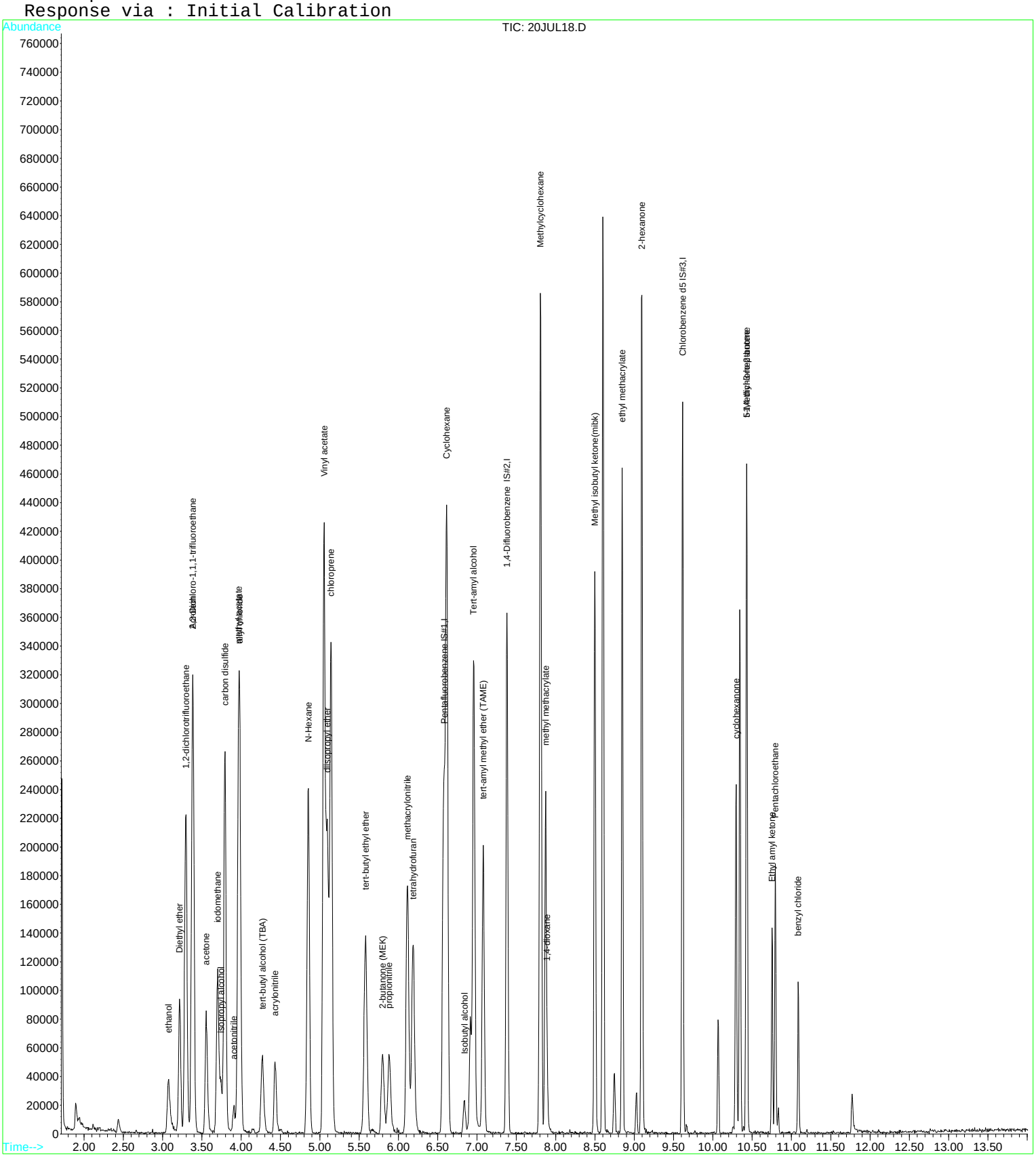
Target Compounds							Qvalue
2) ethanol	3.08	45	62213	2311.67	ug/L	#	47
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	221656	13.09	ug/L	#	75
4) 1,2-dichlorotrifluoroethan	3.30	67	150832	13.37	ug/L	#	85
5) Diethyl ether	3.22	59	58599	12.49	ug/L		87
6) isopropyl alcohol	3.74	45	59618	470.49	ug/L	#	44
7) Acrolein	3.39	56	30220	67.01	ug/L	#	69
8) acetone	3.55	43	116631	146.21	ug/L		96
9) tert-butyl alcohol (TBA)	4.27	59	80745	487.83	ug/L		100
10) acetonitrile	3.91	41	27286	73.62	ug/L	#	59
11) methyl acetate	3.96	43	288754	132.16	ug/L		94
12) allyl chloride	3.98	41	270178	15.15	ug/L		97
13) iodomethane	3.70	142	154713	14.12	ug/L		97
14) acrylonitrile	4.43	53	46773	36.15	ug/L		94
15) carbon disulfide	3.79	76	408149	15.12	ug/L		97
16) N-Hexane	4.86	57	150267	12.62	ug/L	#	83
17) diisopropyl ether	5.10	87	52531	7.96	ug/L		91
18) Vinyl acetate	5.06	43	828062	96.05	ug/L		97
19) chloroprene	5.15	53	286537	14.77	ug/L		93
20) tert-butyl ethyl ether	5.58	59	170677	9.49	ug/L		96
21) 2-butanone (MEK)	5.80	43	102204	75.18	ug/L	#	90
22) propionitrile	5.88	54	87903	189.63	ug/L	#	90
23) Isobutyl alcohol	6.84	43	19916	283.09	ug/L	#	71
24) methacrylonitrile	6.12	67	91400	76.53	ug/L		90
25) Tert-amyl alcohol	6.96	59	219925	1607.75	ug/L	#	64
26) tetrahydrofuran	6.18	42	135022	148.01	ug/L		94
27) Cyclohexane	6.61	56	295091	12.35	ug/L	#	72
28) tert-amyl methyl ether (TA	7.08	73	92322	9.10	ug/L	#	76
30) methyl methacrylate	7.87	69	77276	41.56	ug/L		93
31) Methylcyclohexane	7.81	55	219815	13.33	ug/L		92
32) 1,4-dioxane	7.89	88	22981	858.33	ug/L		81
33) Methyl isobutyl ketone(mib	8.50	43	236406	76.27	ug/L		96
34) ethyl methacrylate	8.85	69	183288	45.39	ug/L		96
35) 2-hexanone	9.09	43	323658	156.02	ug/L		99
37) 5-Methyl-3-heptanone	10.43	43	87636	27.87	ug/L		96
38) cyclohexanone	10.30	55	94541	563.10	ug/L		95
39) t-1,4-dichloro-2-butene	10.43	75	25830	63.86	ug/L	#	31
40) Ethyl amyl ketone	10.75	57	34434	12.27	ug/L	#	78
41) Pentachloroethane	10.80	167	21823	9.53	ug/L		91
42) benzyl chloride	11.09	91	58763	26.60	ug/L	#	58

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL18.D Vial: 18
Acq On : 20 Jul 2017 2:18 pm Operator: MGC
Sample : 1712752-CAL9 Inst : MS-V5
Misc : 1 VO-109-70526;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:12 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-1232\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL19.D Vial: 19
Acq On : 20 Jul 2017 2:41 pm Operator: MGC
Sample : 1712752-CALA Inst : MS-V5
Misc : 1 VO-109-70527;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:12 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	178179	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	269523	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	71971	10.00	ug/L	0.00

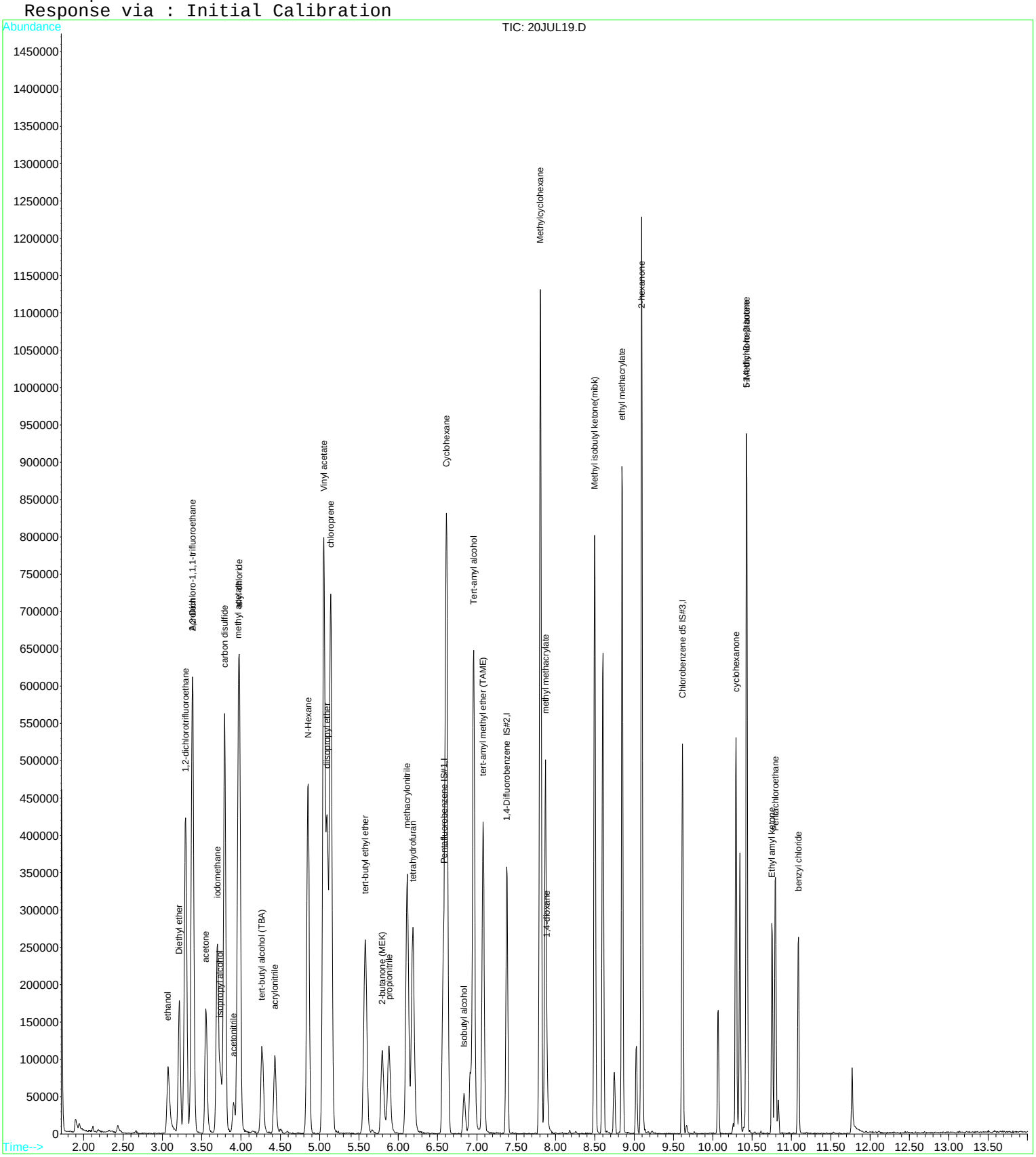
Target Compounds						Qvalue
2) ethanol	3.07	45	140530	5205.50	ug/L #	43
3) 2,2-Dichloro-1,1,1-trifluo	3.38	83	425124	25.03	ug/L #	73
4) 1,2-dichlorotrifluoroethan	3.30	67	284371	25.13	ug/L #	83
5) Diethyl ether	3.22	59	114106	24.25	ug/L	85
6) isopropyl alcohol	3.74	45	131474	1034.33	ug/L #	41
7) Acrolein	3.39	56	62901	139.04	ug/L #	73
8) acetone	3.55	43	229854	287.26	ug/L	94
9) tert-butyl alcohol (TBA)	4.26	59	175269	1055.61	ug/L	100
10) acetonitrile	3.91	41	61133	164.42	ug/L #	33
11) methyl acetate	3.96	43	550034	250.97	ug/L	95
12) allyl chloride	3.98	41	574268	32.11	ug/L	95
13) iodomethane	3.70	142	355621	32.35	ug/L	98
14) acrylonitrile	4.43	53	102774	79.19	ug/L	96
15) carbon disulfide	3.79	76	874992	32.31	ug/L	97
16) N-Hexane	4.85	57	297530	24.90	ug/L #	84
17) diisopropyl ether	5.09	87	103764	15.68	ug/L	93
18) Vinyl acetate	5.05	43	1587903	183.61	ug/L	96
19) chloroprene	5.14	53	611898	31.45	ug/L	93
20) tert-butyl ethyl ether	5.58	59	340727	18.89	ug/L	96
21) 2-butanone (MEK)	5.80	43	200206	146.82	ug/L #	86
22) propionitrile	5.88	54	183350	394.30	ug/L #	88
23) Isobutyl alcohol	6.84	43	44239	580.76	ug/L #	69
24) methacrylonitrile	6.12	67	186727	155.86	ug/L	88
25) Tert-amyl alcohol	6.95	59	433887	2875.85	ug/L #	63
26) tetrahydrofuran	6.19	42	274573	300.05	ug/L	94
27) Cyclohexane	6.61	56	564683	23.55	ug/L #	72
28) tert-amyl methyl ether (TA	7.08	73	186688	18.35	ug/L #	73
30) methyl methacrylate	7.87	69	158389	86.10	ug/L	90
31) Methylcyclohexane	7.80	55	420775	25.80	ug/L	93
32) 1,4-dioxane	7.89	88	52189	1970.40	ug/L	86
33) Methyl isobutyl ketone(mib	8.50	43	475097	154.94	ug/L	95
34) ethyl methacrylate	8.84	69	369893	92.59	ug/L	95
35) 2-hexanone	9.10	43	657561	320.43	ug/L	100
37) 5-Methyl-3-heptanone	10.43	43	167434	51.27	ug/L	94
38) cyclohexanone	10.29	55	198878	1140.31	ug/L	94
39) t-1,4-dichloro-2-butene	10.42	75	61347	121.43	ug/L #	27
40) Ethyl amyl ketone	10.75	57	72956	25.02	ug/L #	73
41) Pentachloroethane	10.80	167	40327	15.69	ug/L	92
42) benzyl chloride	11.09	91	145825	49.60	ug/L #	57

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL19.D Vial: 19
Acq On : 20 Jul 2017 2:41 pm Operator: MGC
Sample : 1712752-CALA Inst : MS-V5
Misc : 1 VO-109-70527;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:12 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-1232\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL20.D Vial: 20
Acq On : 20 Jul 2017 3:04 pm Operator: MGC
Sample : 1712752-CALB Inst : MS-V5
Misc : 1 VO-109-70528;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:13 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	174621	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	263233	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	69099	10.00	ug/L	0.00

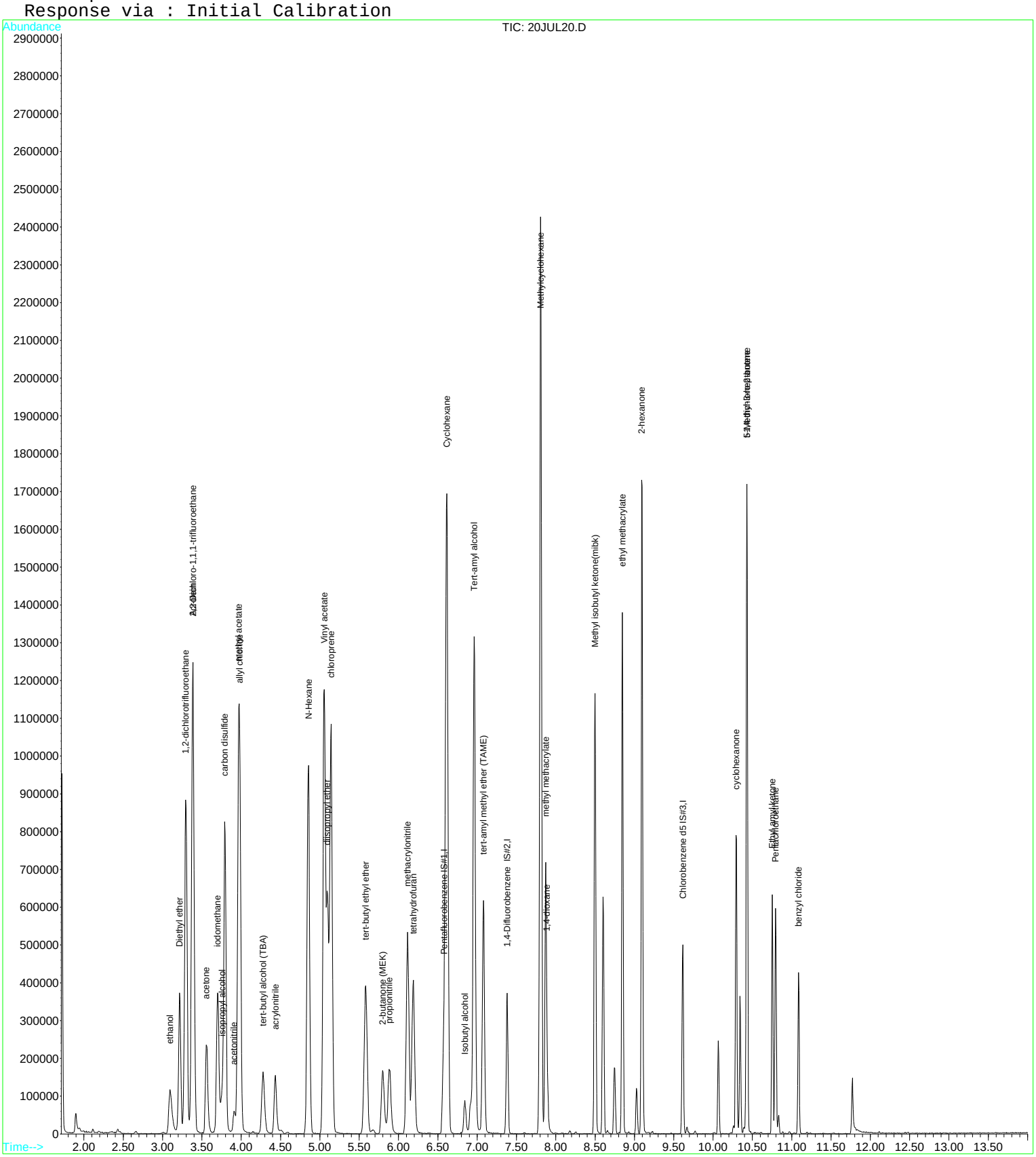
Target Compounds						Qvalue
2) ethanol	3.09	45	205730	7775.90	ug/L #	43
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	860452	51.70	ug/L #	76
4) 1,2-dichlorotrifluoroethan	3.29	67	590714	53.27	ug/L #	85
5) Diethyl ether	3.22	59	235219	51.00	ug/L	83
6) isopropyl alcohol	3.75	45	195278	1567.58	ug/L #	8
7) Acrolein	3.39	56	108941	245.71	ug/L #	69
8) acetone	3.55	43	344325	439.08	ug/L	95
9) tert-butyl alcohol (TBA)	4.28	59	252324	1550.67	ug/L	100
10) acetonitrile	3.91	41	83903	230.26	ug/L #	26
11) methyl acetate	3.96	43	1128055	525.19	ug/L	94
12) allyl chloride	3.98	41	862980	49.23	ug/L	96
13) iodomethane	3.70	142	539359	50.07	ug/L	98
14) acrylonitrile	4.44	53	154090	121.14	ug/L	95
15) carbon disulfide	3.79	76	1271472	47.91	ug/L	97
16) N-Hexane	4.86	57	623461	53.24	ug/L #	83
17) diisopropyl ether	5.10	87	157252	24.25	ug/L	89
18) Vinyl acetate	5.06	43	2385200	281.42	ug/L #	96
19) chloroprene	5.14	53	902085	47.31	ug/L	94
20) tert-butyl ethyl ether	5.58	59	505113	28.57	ug/L	95
21) 2-butanone (MEK)	5.80	43	302620	226.44	ug/L #	87
22) propionitrile	5.88	54	276513	606.77	ug/L #	89
23) Isobutyl alcohol	6.84	43	69599	909.31	ug/L #	76
24) methacrylonitrile	6.12	67	274890	234.12	ug/L	89
25) Tert-amyl alcohol	6.96	59	913464	5837.98	ug/L #	61
26) tetrahydrofuran	6.19	42	401837	448.07	ug/L	93
27) Cyclohexane	6.61	56	1165061	49.58	ug/L #	72
28) tert-amyl methyl ether (TA	7.08	73	285000	28.58	ug/L #	70
30) methyl methacrylate	7.87	69	241996	134.69	ug/L	95
31) Methylcyclohexane	7.81	55	877587	55.09	ug/L	93
32) 1,4-dioxane	7.89	88	73893	2856.51	ug/L	86
33) Methyl isobutyl ketone(mib	8.50	43	701682	234.30	ug/L	94
34) ethyl methacrylate	8.85	69	550973	141.22	ug/L	95
35) 2-hexanone	9.09	43	935679	466.85	ug/L	98
37) 5-Methyl-3-heptanone	10.43	43	334691	106.74	ug/L	94
38) cyclohexanone	10.29	55	313653	1873.15	ug/L	95
39) t-1,4-dichloro-2-butene	10.42	75	102481	180.83	ug/L #	20
40) Ethyl amyl ketone	10.75	57	152313	54.40	ug/L #	73
41) Pentachloroethane	10.79	167	70897	27.38	ug/L	91
42) benzyl chloride	11.09	91	232501	69.65	ug/L #	55

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL20.D Vial: 20
Acq On : 20 Jul 2017 3:04 pm Operator: MGC
Sample : 1712752-CALB Inst : MS-V5
Misc : 1 VO-109-70528;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:13 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-1232\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL21.D Vial: 21
Acq On : 20 Jul 2017 3:27 pm Operator: MGC
Sample : 1712752-CALC Inst : MS-V5
Misc : 1 VO-109-70529;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:13 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	191859	10.00 ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	287684	10.00 ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	76272	10.00 ug/L	0.00

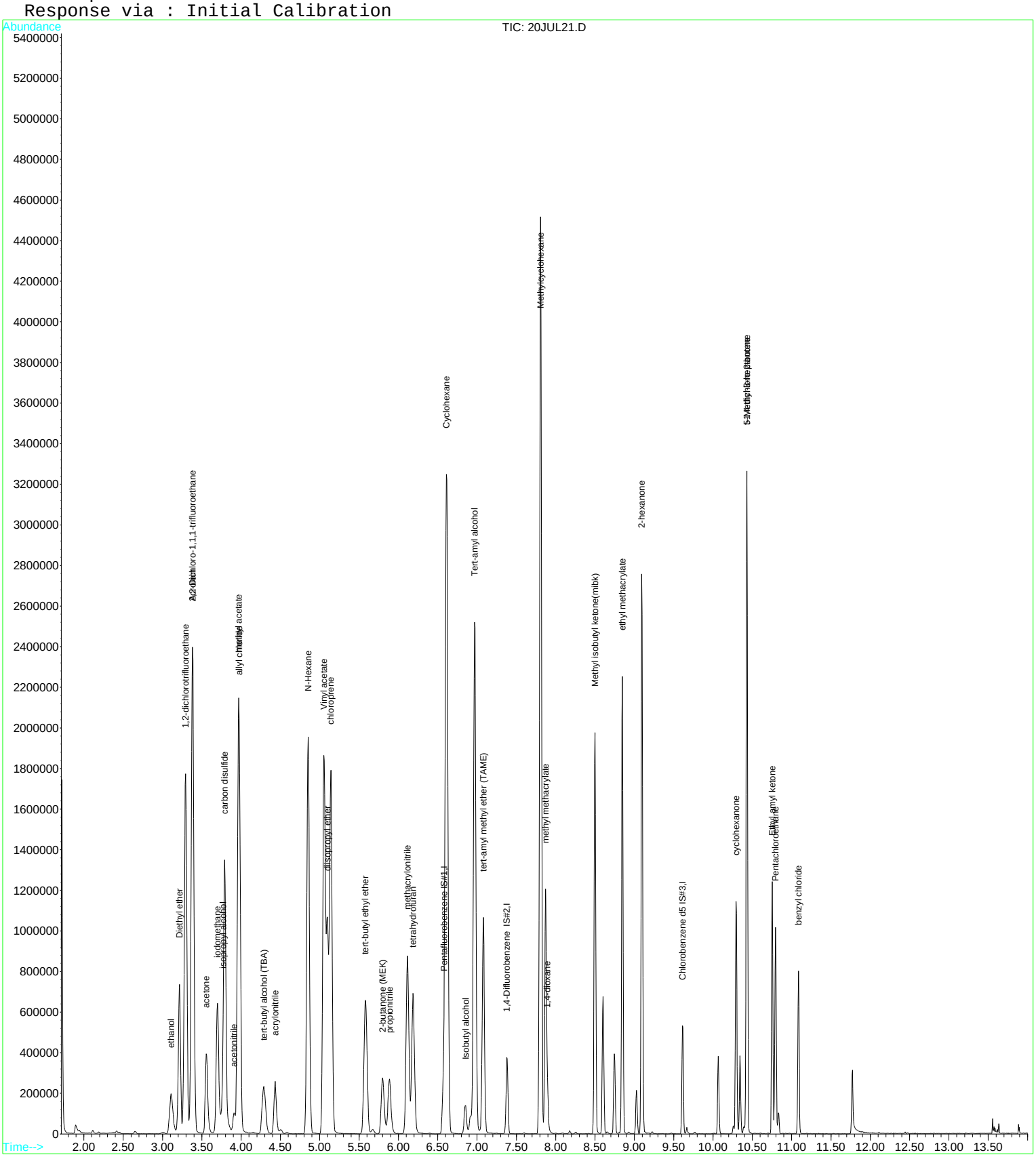
Target Compounds					Qvalue
2) ethanol	3.11	45	343157	11804.84 ug/L #	40
3) 2,2-Dichloro-1,1,1-trifluo	3.38	83	1694547	92.67 ug/L #	75
4) 1,2-dichlorotrifluoroethan	3.29	67	1178349	96.72 ug/L #	85
5) Diethyl ether	3.22	59	472236	93.20 ug/L	82
6) isopropyl alcohol	3.77	45	317937	2322.91 ug/L #	6
7) Acrolein	3.39	56	180190	369.90 ug/L #	72
8) acetone	3.56	43	577159	669.86 ug/L	96
9) tert-butyl alcohol (TBA)	4.29	59	450091	2517.53 ug/L	100
10) acetonitrile	3.91	41	136990	342.17 ug/L #	27
11) methyl acetate	3.97	43	2174902	921.60 ug/L	91
12) allyl chloride	3.98	41	1442058	74.88 ug/L	97
13) iodomethane	3.70	142	960471	81.15 ug/L	99
14) acrylonitrile	4.43	53	249855	178.78 ug/L	95
15) carbon disulfide	3.79	76	2158751	74.03 ug/L	97
16) N-Hexane	4.85	57	1257523	97.74 ug/L #	84
17) diisopropyl ether	5.10	87	262020	36.77 ug/L	91
18) Vinyl acetate	5.05	43	3834502	411.77 ug/L #	95
19) chloroprene	5.14	53	1510657	72.11 ug/L	96
20) tert-butyl ethyl ether	5.58	59	868719	44.72 ug/L	93
21) 2-butanone (MEK)	5.79	43	505064	343.97 ug/L #	87
22) propionitrile	5.89	54	430629	860.06 ug/L #	87
23) Isobutyl alcohol	6.85	43	115290	1351.66 ug/L #	76
24) methacrylonitrile	6.12	67	474660	367.94 ug/L	87
25) Tert-amyl alcohol	6.97	59	1893937	10754.08 ug/L #	59
26) tetrahydrofuran	6.18	42	681592	691.73 ug/L	94
27) Cyclohexane	6.61	56	2255697	87.37 ug/L #	73
28) tert-amyl methyl ether (TA	7.08	73	485199	44.28 ug/L #	70
30) methyl methacrylate	7.87	69	415597	211.66 ug/L	97
31) Methylcyclohexane	7.81	55	1673839	96.15 ug/L	94
32) 1,4-dioxane	7.90	88	128386	4541.24 ug/L	89
33) Methyl isobutyl ketone(mib	8.50	43	1152352	352.08 ug/L	93
34) ethyl methacrylate	8.85	69	909414	213.28 ug/L	96
35) 2-hexanone	9.09	43	1491577	680.96 ug/L	96
37) 5-Methyl-3-heptanone	10.43	43	646664	186.84 ug/L	93
38) cyclohexanone	10.29	55	449992	2434.64 ug/L	94
39) t-1,4-dichloro-2-butene	10.43	75	176499	244.62 ug/L #	20
40) Ethyl amyl ketone	10.75	57	306368	99.14 ug/L #	71
41) Pentachloroethane	10.79	167	132243	45.16 ug/L	91
42) benzyl chloride	11.09	91	435458	97.53 ug/L #	54

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL21.D Vial: 21
Acq On : 20 Jul 2017 3:27 pm Operator: MGC
Sample : 1712752-CALC Inst : MS-V5
Misc : 1 VO-109-70529;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:13 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-1232\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Tue Jul 11 13:50:19 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL50.D Vial: 50
Acq On : 18 Jul 2017 12:00 am Operator: MGC
Sample : 1712538-CALD Inst : MS-V5
Misc : 1 VO-109-70472;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:12 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration
DataAcq Meth : 82605

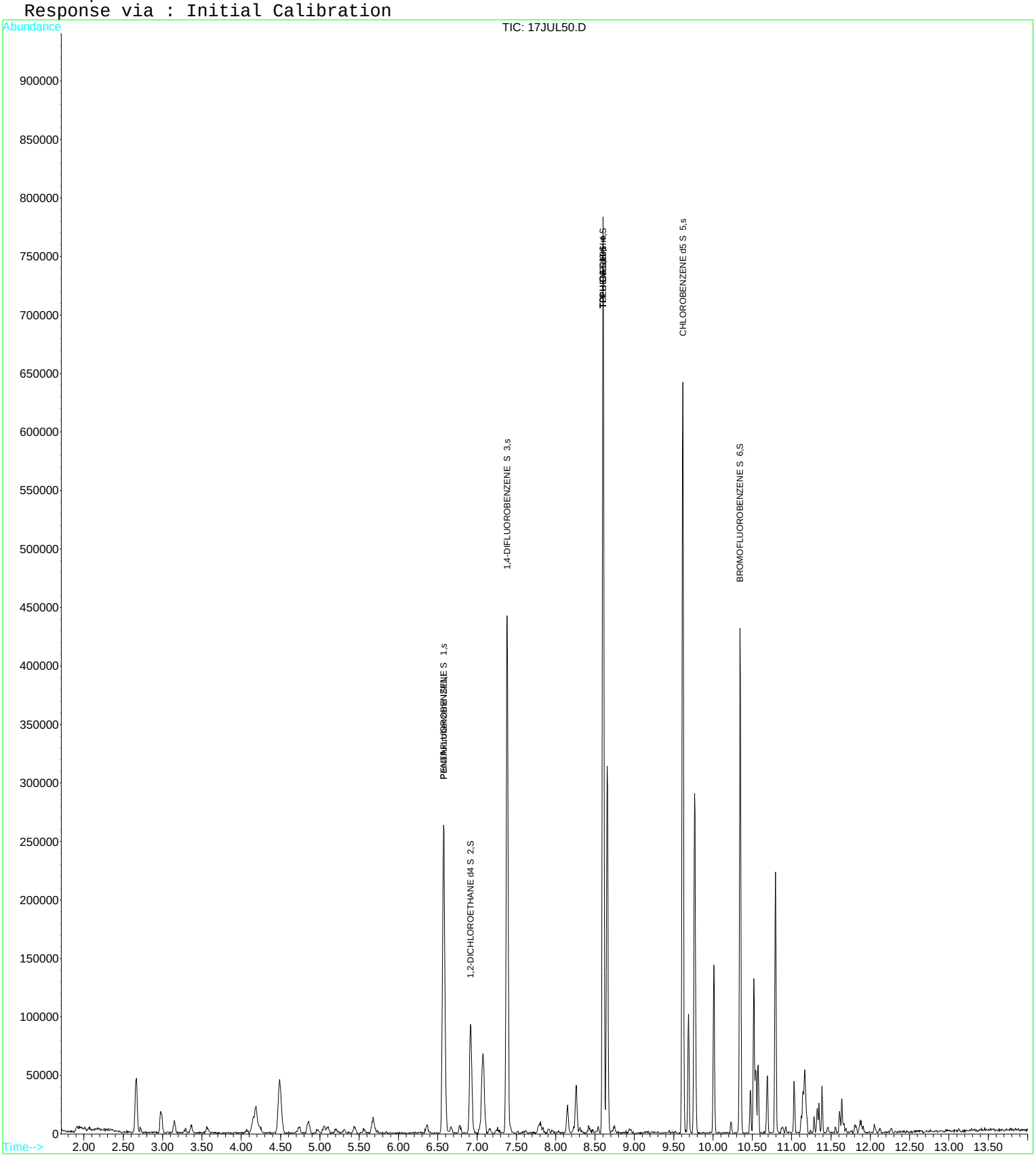
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	203330	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	560010m	5.20	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.92	TIC	196599m	3.33	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	759365m	6.84	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	1067752m	11.21	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	813344m	11.95	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	534468m	11.94	ug/L	0.00
Target Compounds						Qvalue
8) TPPH-GAS	8.60	TIC	3323551m	57.88	ug/L	
9) TPPH C6-C10	8.60	TIC	2289132m	59.15	ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL50.D Vial: 50
Acq On : 18 Jul 2017 12:00 am Operator: MGC
Sample : 1712538-CALD Inst : MS-V5
Misc : 1 VO-109-70472;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:12 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\05-1939\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL51.D Vial: 51
Acq On : 18 Jul 2017 12:23 am Operator: MGC
Sample : 1712538-CALE Inst : MS-V5
Misc : 1 VO-109-70473;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:13 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration
DataAcq Meth : 82605

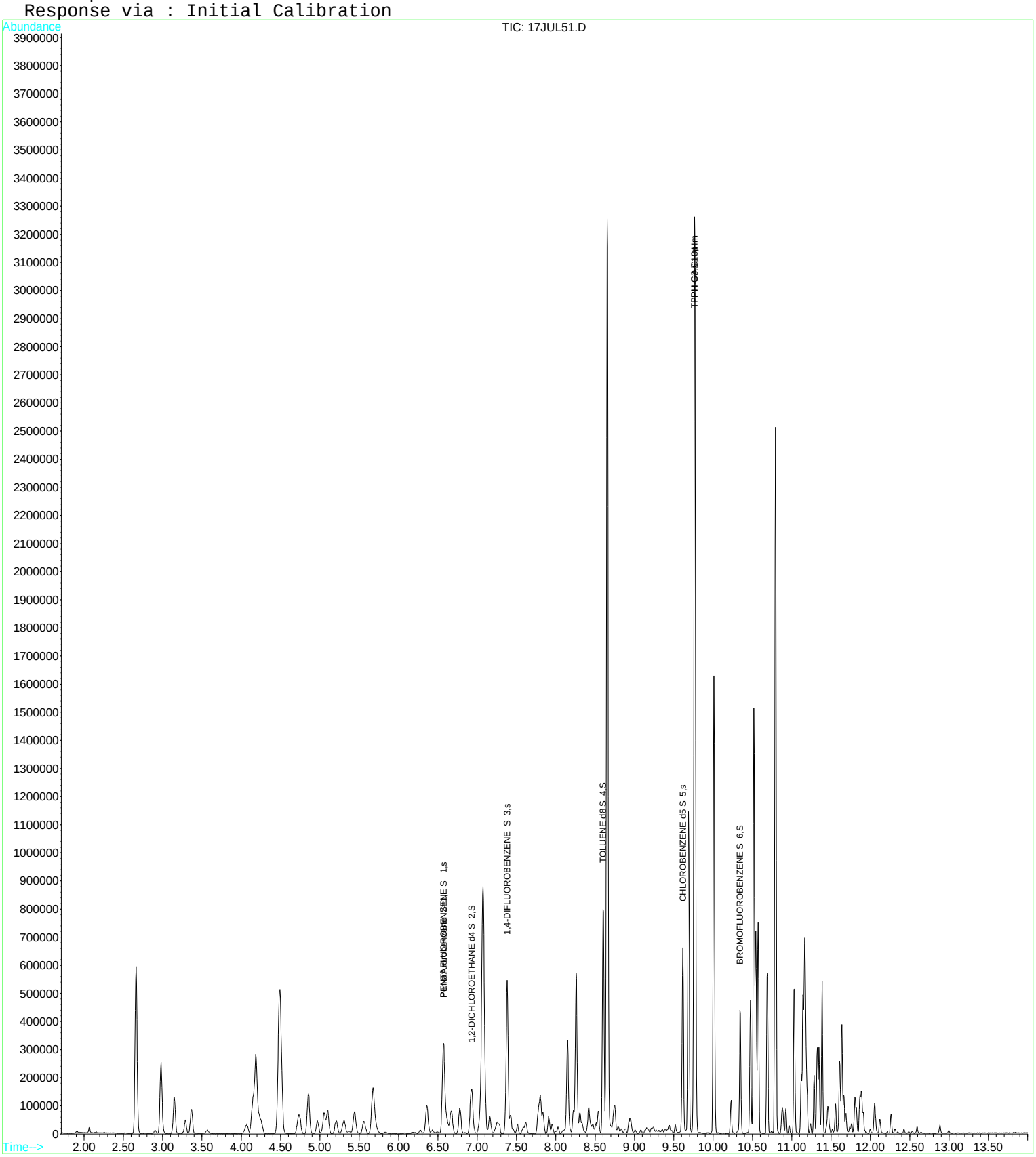
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	203353	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	851300m	7.90	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.93	TIC	412269m	6.97	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	997992m	8.99	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	1156175m	12.13	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.61	TIC	854311m	12.55	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	563664m	12.59	ug/L	0.00
Target Compounds						Qvalue
8) TPPH-GAS	9.76	TIC	39200624m	682.56	ug/L	
9) TPPH C6-C10	9.76	TIC	26681022m	689.37	ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL51.D Vial: 51
Acq On : 18 Jul 2017 12:23 am Operator: MGC
Sample : 1712538-CALE Inst : MS-V5
Misc : 1 VO-109-70473;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:13 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\05-1939\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL52.D Vial: 52
Acq On : 18 Jul 2017 12:46 am Operator: MGC
Sample : 1712538-CALF Inst : MS-V5
Misc : 1 VO-109-70474;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:16 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration
DataAcq Meth : 82605

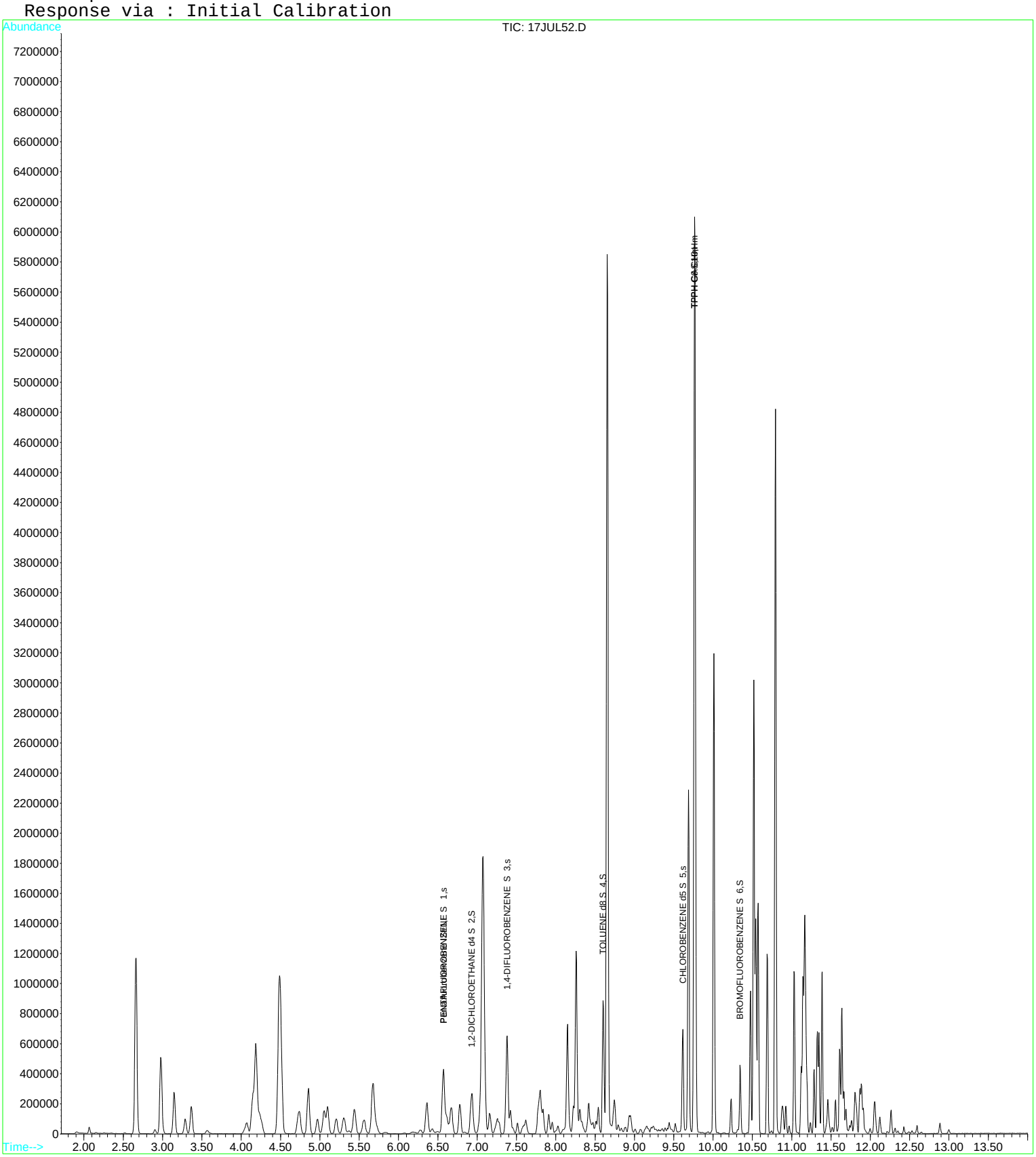
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	209806	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	1172463m	10.55	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.93	TIC	663952m	10.89	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	1294857m	11.31	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	1296741m	13.19	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	944425m	13.45	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	592237m	12.82	ug/L	0.00
Target Compounds						Qvalue
8) TPPH-GAS	9.76	TIC	80422572m	1357.26	ug/L	
9) TPPH C6-C10	9.76	TIC	54230618m	1358.10	ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL52.D Vial: 52
Acq On : 18 Jul 2017 12:46 am Operator: MGC
Sample : 1712538-CALF Inst : MS-V5
Misc : 1 VO-109-70474;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:16 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\05-1939\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL53.D Vial: 53
Acq On : 18 Jul 2017 1:09 am Operator: MGC
Sample : 1712538-CALG Inst : MS-V5
Misc : 1 VO-109-70475;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:18 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration
DataAcq Meth : 82605

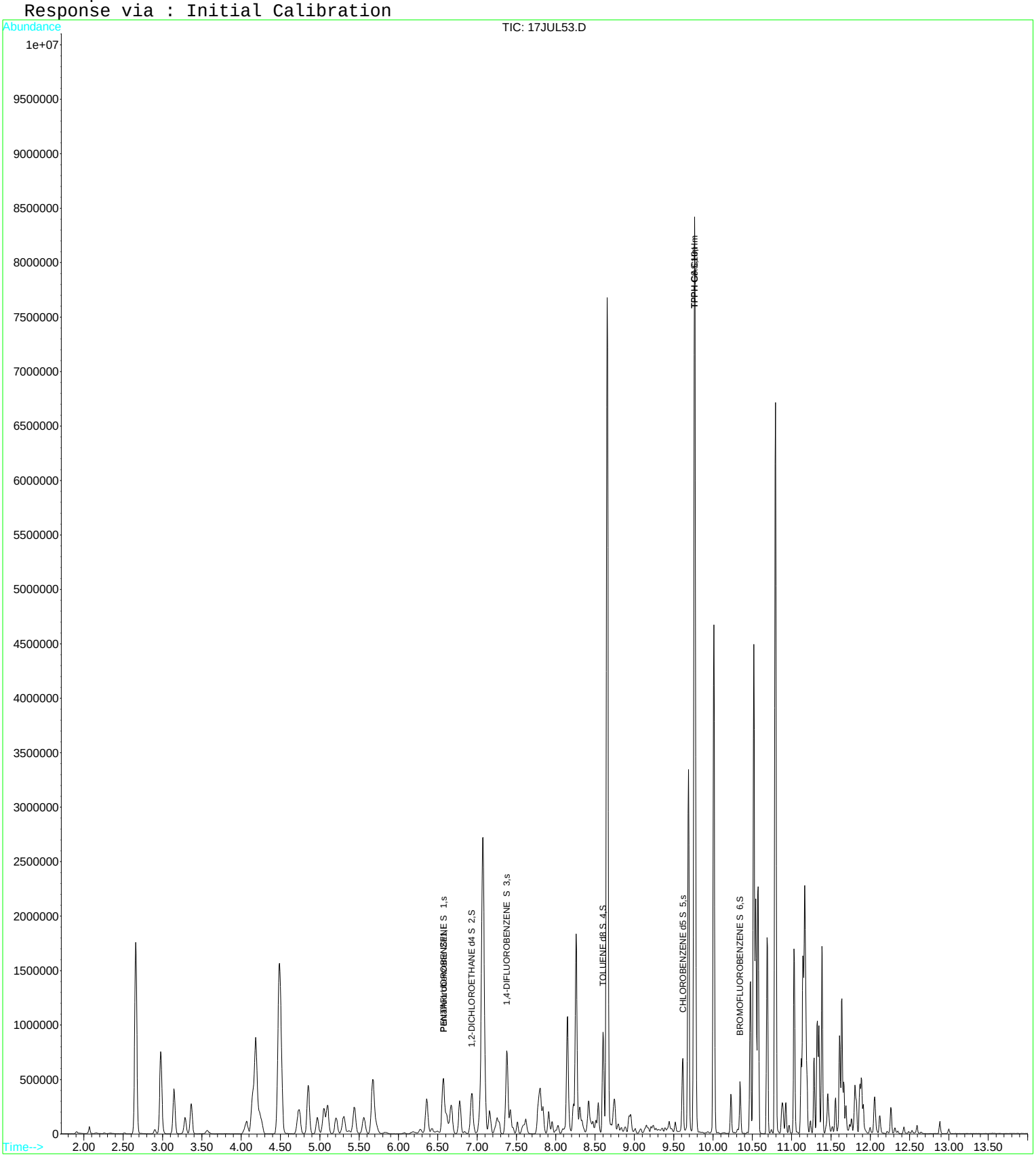
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	214428	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	1509629m	13.29	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.93	TIC	903792m	14.50	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	1605859m	13.72	ug/L	-0.01
5) TOLUENE d8 S 4	8.60	TIC	1364310m	13.58	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	977979m	13.63	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	633462m	13.42	ug/L	0.00
Target Compounds						Qvalue
8) TPPH-GAS	9.76	TIC	118942110m	1964.06	ug/L	
9) TPPH C6-C10	9.76	TIC	79099535m	1938.19	ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL53.D Vial: 53
Acq On : 18 Jul 2017 1:09 am Operator: MGC
Sample : 1712538-CALG Inst : MS-V5
Misc : 1 VO-109-70475;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:18 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\05-1939\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL54.D Vial: 54
Acq On : 18 Jul 2017 1:32 am Operator: MGC
Sample : 1712538-CALH Inst : MS-V5
Misc : 1 VO-109-70476;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:19 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration
DataAcq Meth : 82605

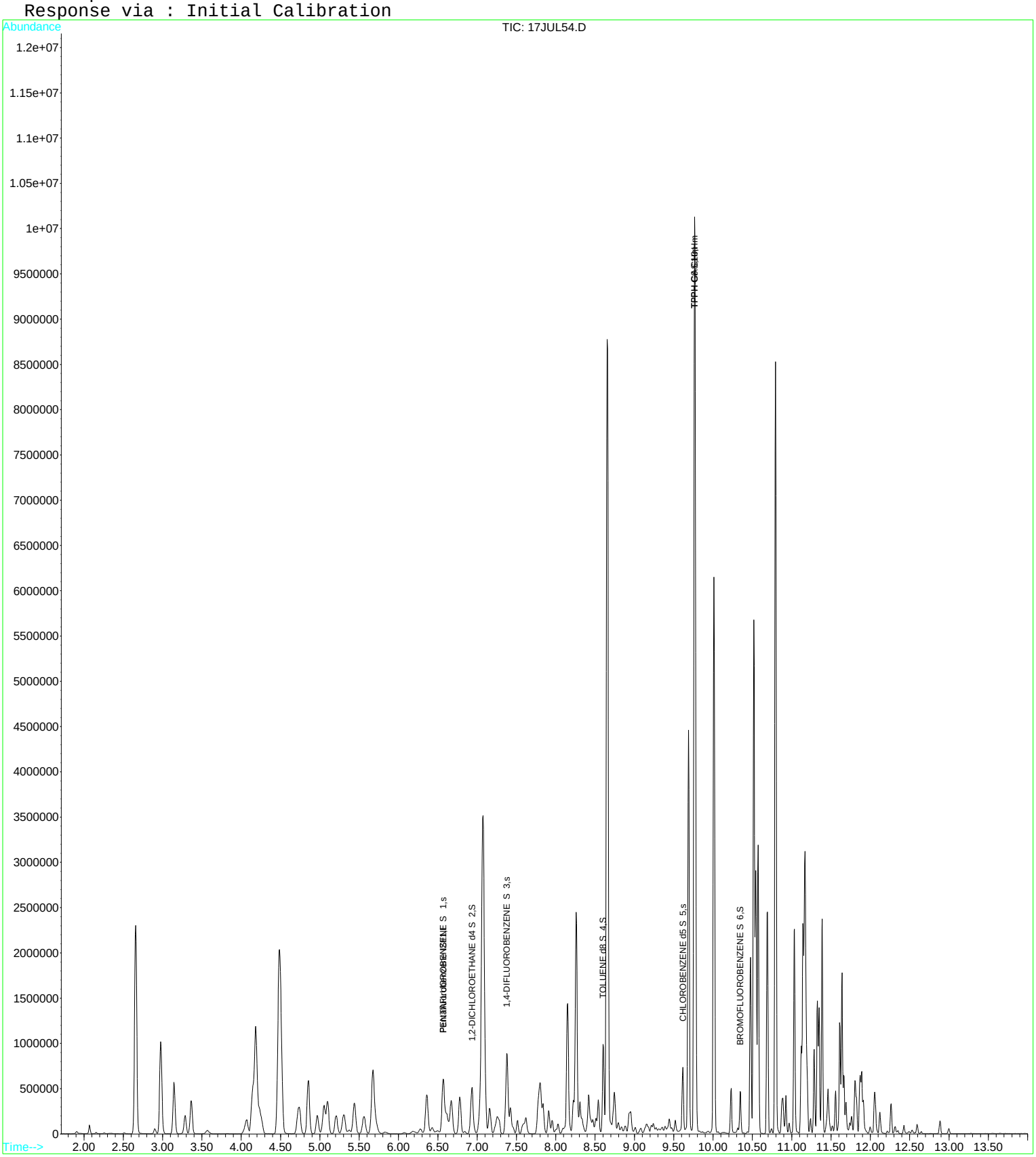
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	210761	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	1839700m	16.47	ug/L	-0.01
3) 1,2-DICHLOROETHANE d4 S 2	6.94	TIC	1173334m	19.15	ug/L	0.01
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	1898061m	16.50	ug/L	-0.01
5) TOLUENE d8 S 4	8.60	TIC	1544544m	15.64	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	1056122m	14.97	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	631481m	13.61	ug/L	0.00
Target Compounds						Qvalue
8) TPPH-GAS	9.76	TIC	158799376m	2667.84	ug/L	
9) TPPH C6-C10	9.76	TIC	104534866m	2606.00	ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL54.D Vial: 54
Acq On : 18 Jul 2017 1:32 am Operator: MGC
Sample : 1712538-CALH Inst : MS-V5
Misc : 1 VO-109-70476;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:19 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\05-1939\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL55.D Vial: 55
Acq On : 18 Jul 2017 1:55 am Operator: MGC
Sample : 1712538-CALI Inst : MS-V5
Misc : 1 VO-109-70477;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:20 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration
DataAcq Meth : 82605

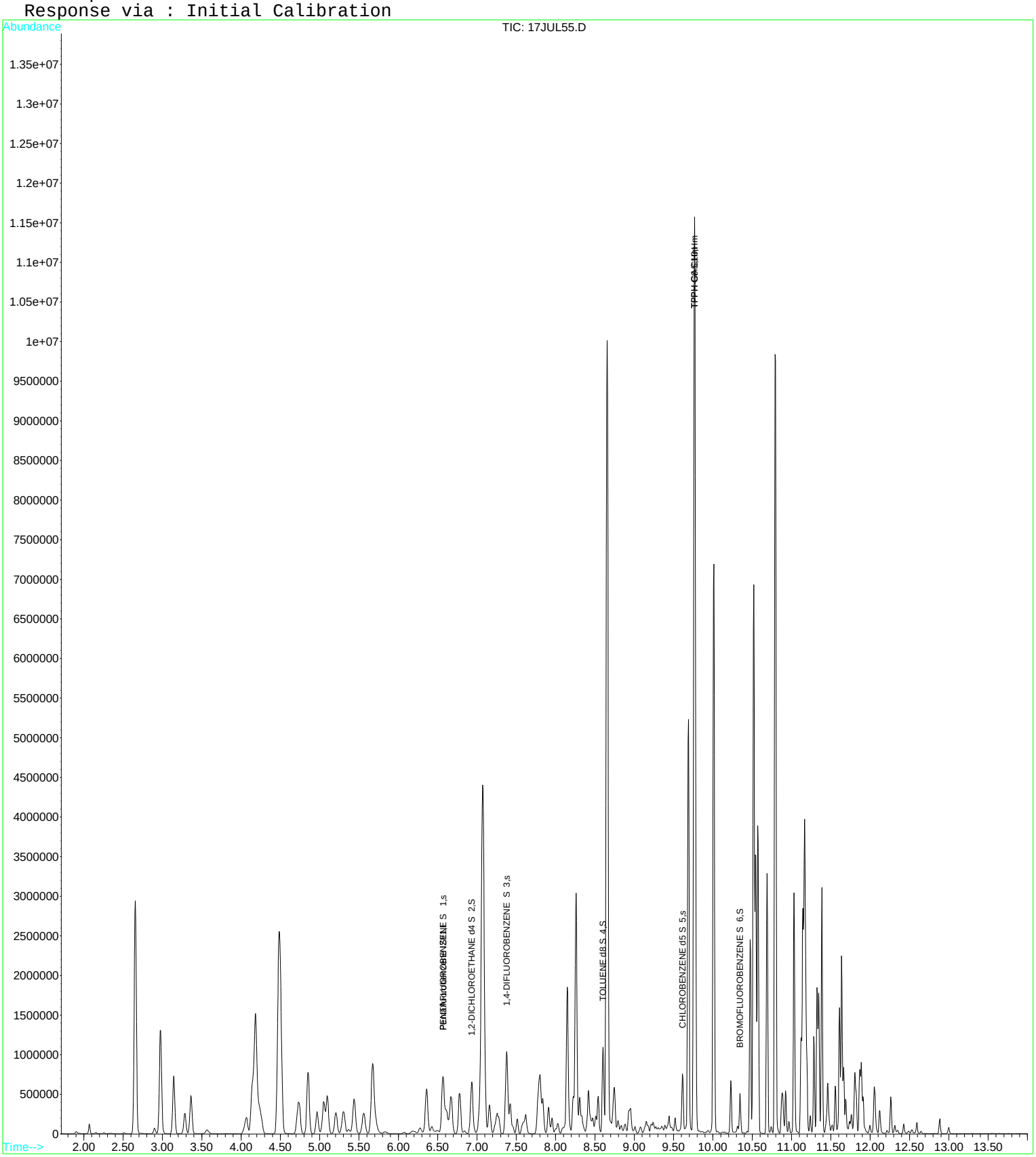
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	228564	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	2313492m	19.10	ug/L	-0.01
3) 1,2-DICHLOROETHANE d4 S 2	6.93	TIC	1481531m	22.30	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	2246811m	18.01	ug/L	-0.01
5) TOLUENE d8 S 4	8.60	TIC	1660426m	15.50	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.61	TIC	1178573m	15.40	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.35	TIC	685683m	13.63	ug/L	0.00
Target Compounds						Qvalue
8) TPPH-GAS	9.77	TIC	198270607m	3071.51	ug/L	
9) TPPH C6-C10	9.77	TIC	129763331m	2982.96	ug/L	

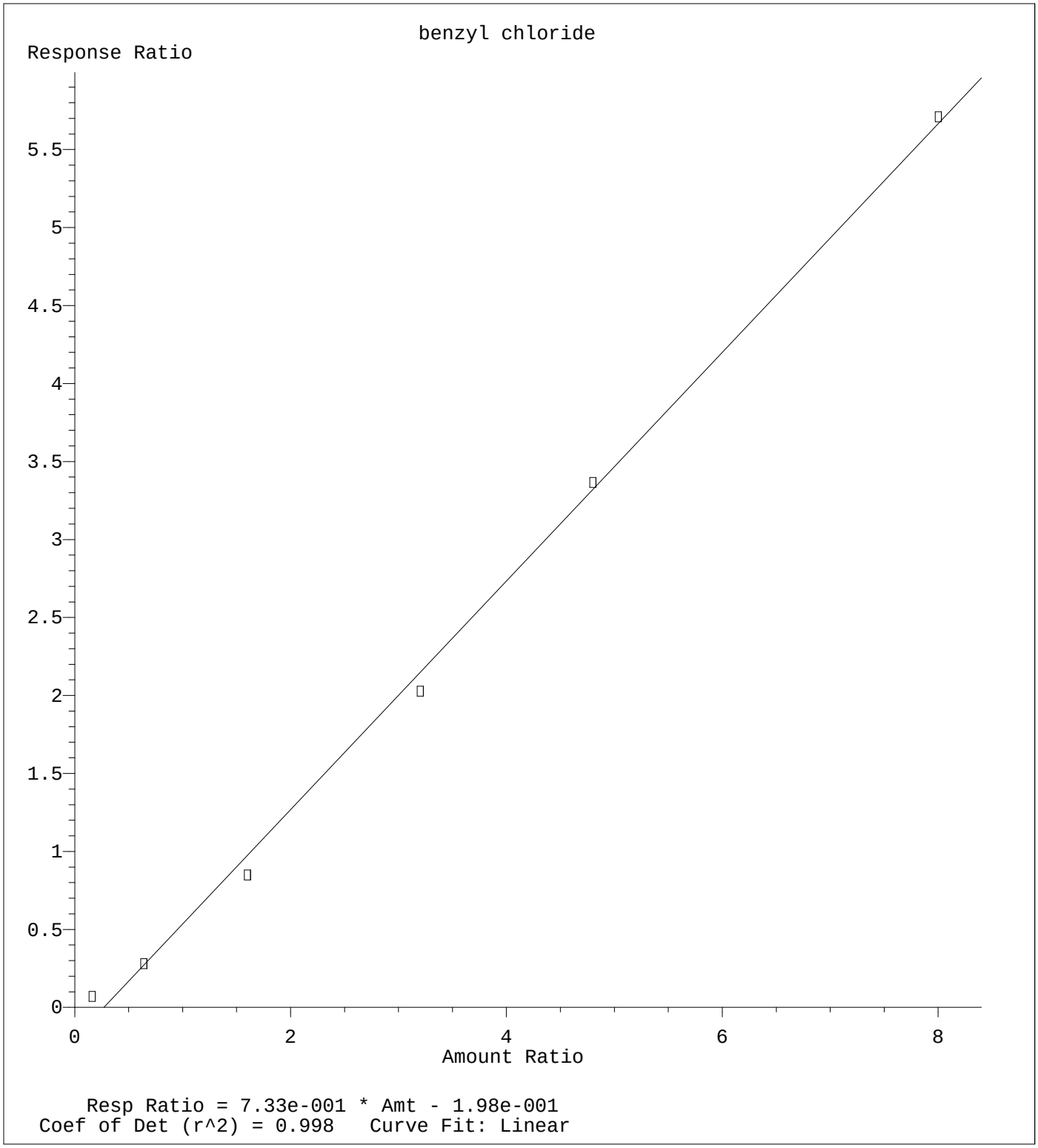
(#) = qualifier out of range (m) = manual integration

Quantitation Report

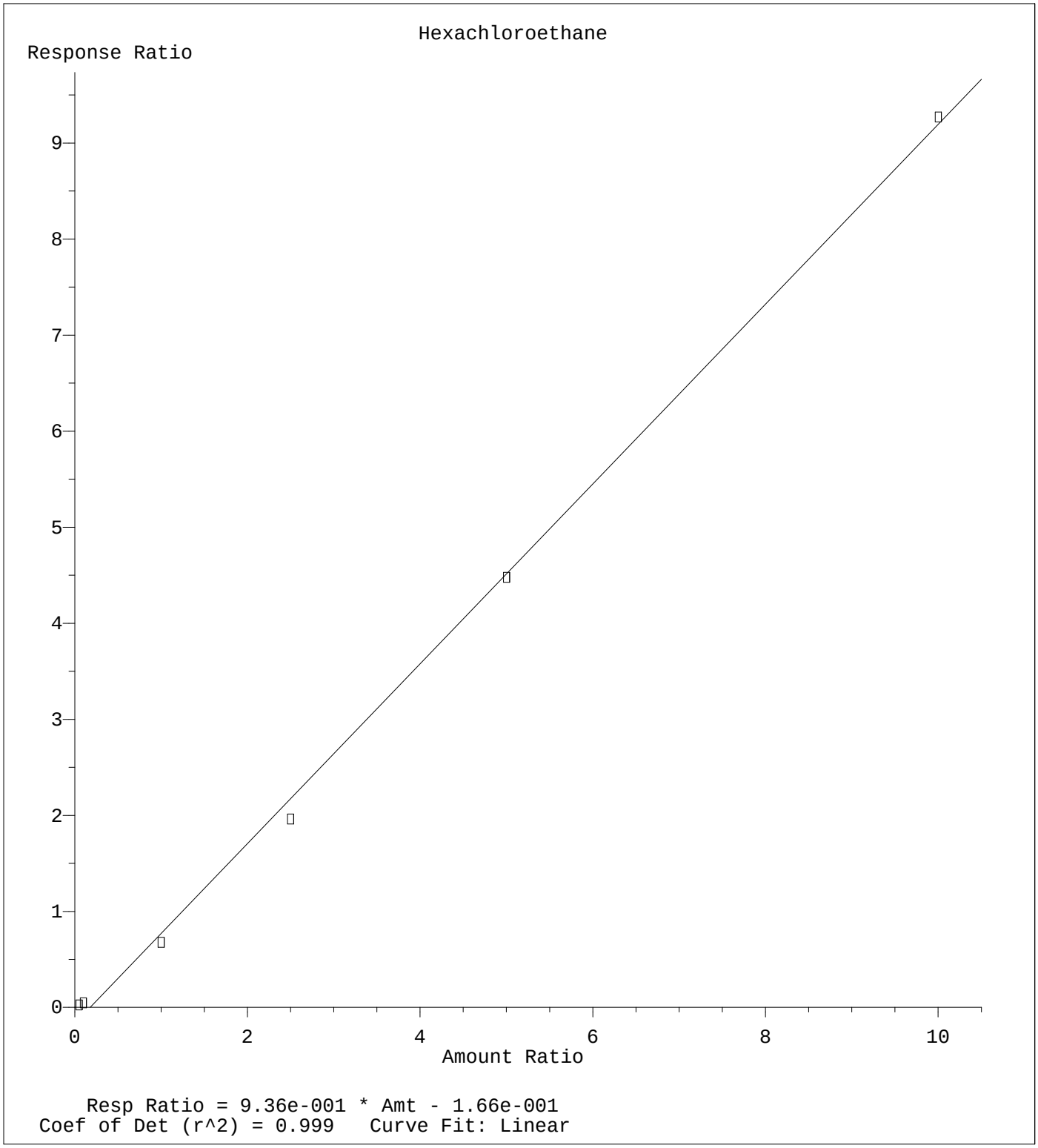
Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL55.D Vial: 55
Acq On : 18 Jul 2017 1:55 am Operator: MGC
Sample : 1712538-CALI Inst : MS-V5
Misc : 1 VO-109-70477;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:20 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\05-1939\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Thu Jul 06 06:15:28 2017
Response via : Initial Calibration





Method Name: C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M
Calibration Table Last Updated: Fri Jul 21 04:19:15 2017



Method Name: C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M
Calibration Table Last Updated: Thu Jul 20 11:28:22 2017

Raw Data - ICV

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL12.D Vial: 12
Acq On : 20 Jul 2017 12:00 pm Operator: MGC
Sample : 1712752-ICV1 Inst : MS-V5
Misc : 1 VO-109-70513;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 12:46 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	184644	10.00	ug/L		0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	285117	10.00	ug/L		0.00
39) Chlorobenzene d5 IS#3	9.62	119	74559	10.00	ug/L		0.00
System Monitoring Compounds							
21) 1,2-dichloroethane d4 SMC	6.92	65	53963	10.01	ug/L		0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 100.10%							
31) Toluene d8 SMC#2	8.60	98	343093	9.74	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 97.40%							
49) Bromofluorobenzene SMC#3	10.34	95	115722	10.39	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 103.90%							
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.76	85	241916	26.33	ug/L		95
3) Chloromethane	1.95	50	378706	21.80	ug/L		99
4) Vinyl chloride	2.07	62	338693	24.48	ug/L	#	66
5) Bromomethane	2.44	94	188479	25.11	ug/L	#	89
6) Chloroethane	2.57	64	229100	24.11	ug/L		98
7) Trichlorofluoromethane	2.87	101	290783	25.57	ug/L		97
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	206626	26.47	ug/L	#	83
9) 1,1-Dichloroethene	3.51	61	386451	25.94	ug/L		96
10) Methylene chloride	4.15	84	198309	24.89	ug/L		98
11) MTBE	4.48	73	285059	25.57	ug/L	#	77
12) T-1,2-dichloroethene	4.50	96	245512	26.54	ug/L		91
13) 1,1-Dichloroethane	5.05	63	503562	25.49	ug/L		100
14) 2,2-Dichloropropane	5.82	77	288286	25.93	ug/L		93
15) Cis-1,2-dichloroethene	5.82	96	244222	25.33	ug/L		95
16) Bromochloromethane	6.18	128	75372	24.53	ug/L	#	86
17) Chloroform	6.32	83	348453	24.93	ug/L		94
18) 1,1,1-Trichloroethane	6.53	97	312087	25.79	ug/L	#	71
19) 1,1-Dichloropropene	6.72	75	308677	24.42	ug/L		94
20) Carbon tetrachloride	6.71	119	211410	25.48	ug/L		91
22) 1,2-Dichloroethane	7.00	62	183710	24.46	ug/L	#	85
23) Benzene	6.94	78	941279	24.89	ug/L	#	7
25) Trichloroethene	7.60	130	248559	25.39	ug/L		90
26) 1,2-Dichloropropane	7.83	63	261996	24.22	ug/L		94
27) Dibromomethane	7.90	93	73001	26.74	ug/L		98
28) Bromodichloromethane	8.05	83	207514	25.28	ug/L		92
29) 2-ceve	8.27	63	285733	102.27	ug/L	#	75
30) Cis-1,3-dichloropropene	8.40	75	267335	26.09	ug/L		98
32) Toluene	8.65	92	616474	24.96	ug/L		93
33) Trans-1,3-dichloropropene	8.82	75	174804	26.13	ug/L	#	83
34) 1,1,2-Trichloroethane	8.97	97	111939	25.22	ug/L		85
35) Tetrachloroethene (PCE)	9.03	166	239008	25.47	ug/L		95
36) 1,3-Dichloropropane	9.08	76	170622	23.67	ug/L		97
37) Dibromochloromethane	9.23	129	113856	26.55	ug/L	#	95
38) 1,2-Dibromoethane	9.32	107	96637	26.20	ug/L		97
40) Chlorobenzene	9.64	112	577549	23.36	ug/L		90
41) 1,1,1,2-Tetrachloroethane	9.69	131	163410	26.86	ug/L		98
42) Ethylbenzene	9.69	106	374920	25.81	ug/L		82
43) P+m-Xylene	9.77	106	908616	51.13	ug/L		98
44) O-Xylene	10.01	106	421259	25.65	ug/L		90
45) Styrene	10.02	104	662005	26.45	ug/L		92
46) Bromoform	10.15	173	48942	26.74	ug/L	#	100
47) Isopropylbenzene	10.23	105	1115723	26.25	ug/L		98
48) 1,1,2,2-Tetrachloroethane	10.40	83	105100	25.92	ug/L		94
50) 1,2,3-Trichloropropane	10.45	110	22372	25.96	ug/L	#	18
51) n-propylbenzene	10.48	91	1339682	24.27	ug/L		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL12.D Vial: 12
Acq On : 20 Jul 2017 12:00 pm Operator: MGC
Sample : 1712752-ICV1 Inst : MS-V5
Misc : 1 VO-109-70513;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 12:46 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

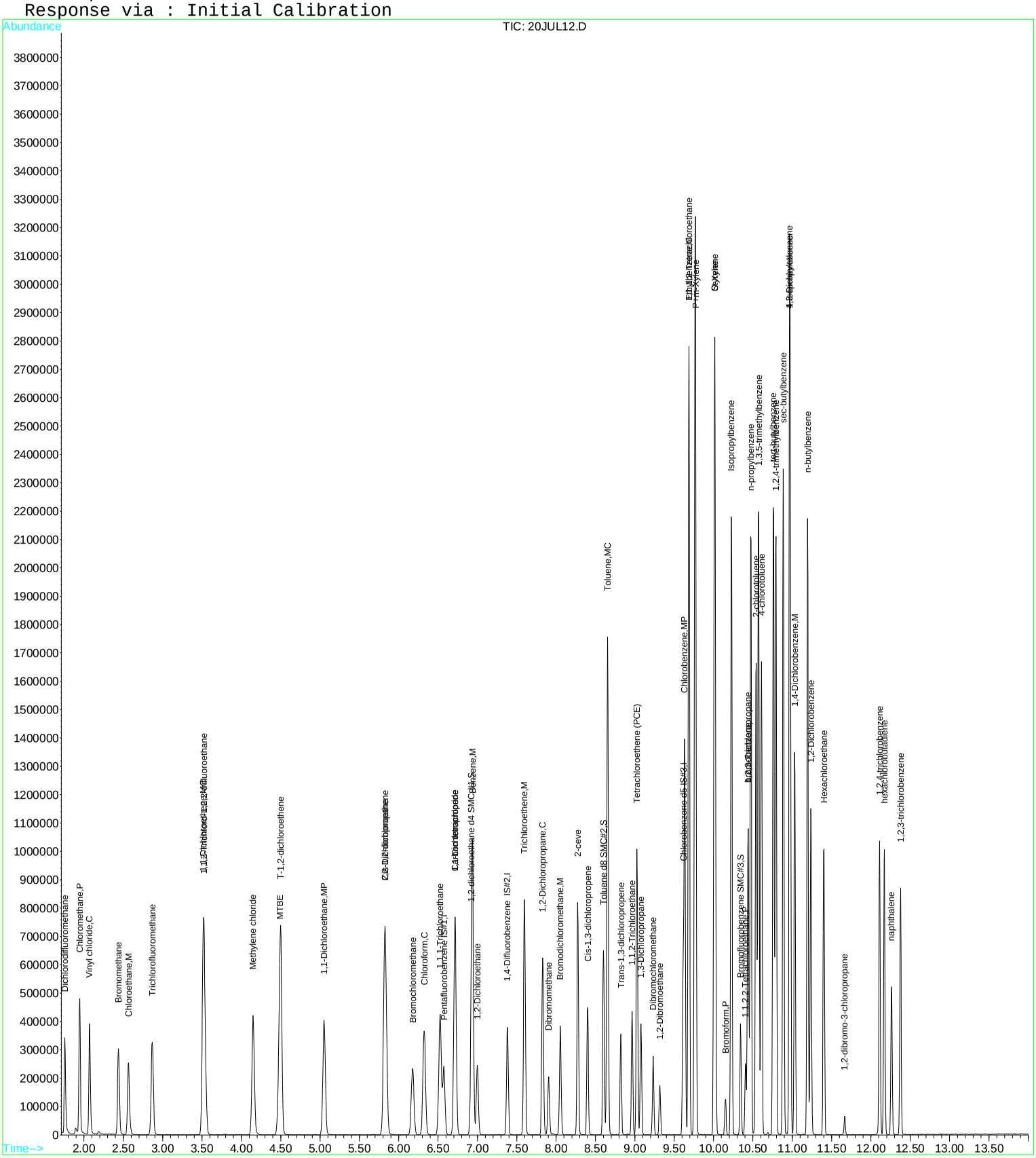
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	219690	25.23	ug/L		88
53)	1,3,5-trimethylbenzene	10.57	105	949684	27.00	ug/L		93
54)	2-chlorotoluene	10.54	91	842498	24.16	ug/L		98
55)	4-chlorotoluene	10.61	91	767453	24.37	ug/L		96
56)	tert-butylbenzene	10.76	119	882705	25.40	ug/L		96
57)	1,2,4-trimethylbenzene	10.79	105	907566	26.05	ug/L		94
58)	sec-butylbenzene	10.89	105	1254394	26.64	ug/L		100
59)	4-isopropyltoluene	10.97	119	1024754	26.69	ug/L		97
60)	1,3-Dichlorobenzene	10.97	146	453670	24.34	ug/L		95
61)	1,4-Dichlorobenzene	11.03	146	444088	24.38	ug/L		96
62)	n-butylbenzene	11.19	91	933671	26.10	ug/L		99
63)	1,2-Dichlorobenzene	11.23	146	386179	24.02	ug/L		97
64)	Hexachloroethane	11.40	117	135394	21.18	ug/L	#	69
65)	1,2-dibromo-3-chloropropan	11.67	75	15398	28.17	ug/L		91
66)	1,2,4-trichlorobenzene	12.11	180	251966	27.06	ug/L		100
67)	hexachlorobutadiene	12.17	225	162539	25.21	ug/L	#	84
68)	naphthalene	12.26	128	310035	26.50	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	208438	26.67	ug/L	#	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL12.D Vial: 12
Acq On : 20 Jul 2017 12:00 pm Operator: MGC
Sample : 1712752-ICV1 Inst : MS-V5
Misc : 1 VO-109-70513;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 12:46 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL24.D Vial: 24
Acq On : 20 Jul 2017 4:36 pm Operator: MGC
Sample : 1712752-ICV2 Inst : MS-V5
Misc : 1 VO-109-70530;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:21 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	179876	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	278423	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	74706	10.00	ug/L	0.00

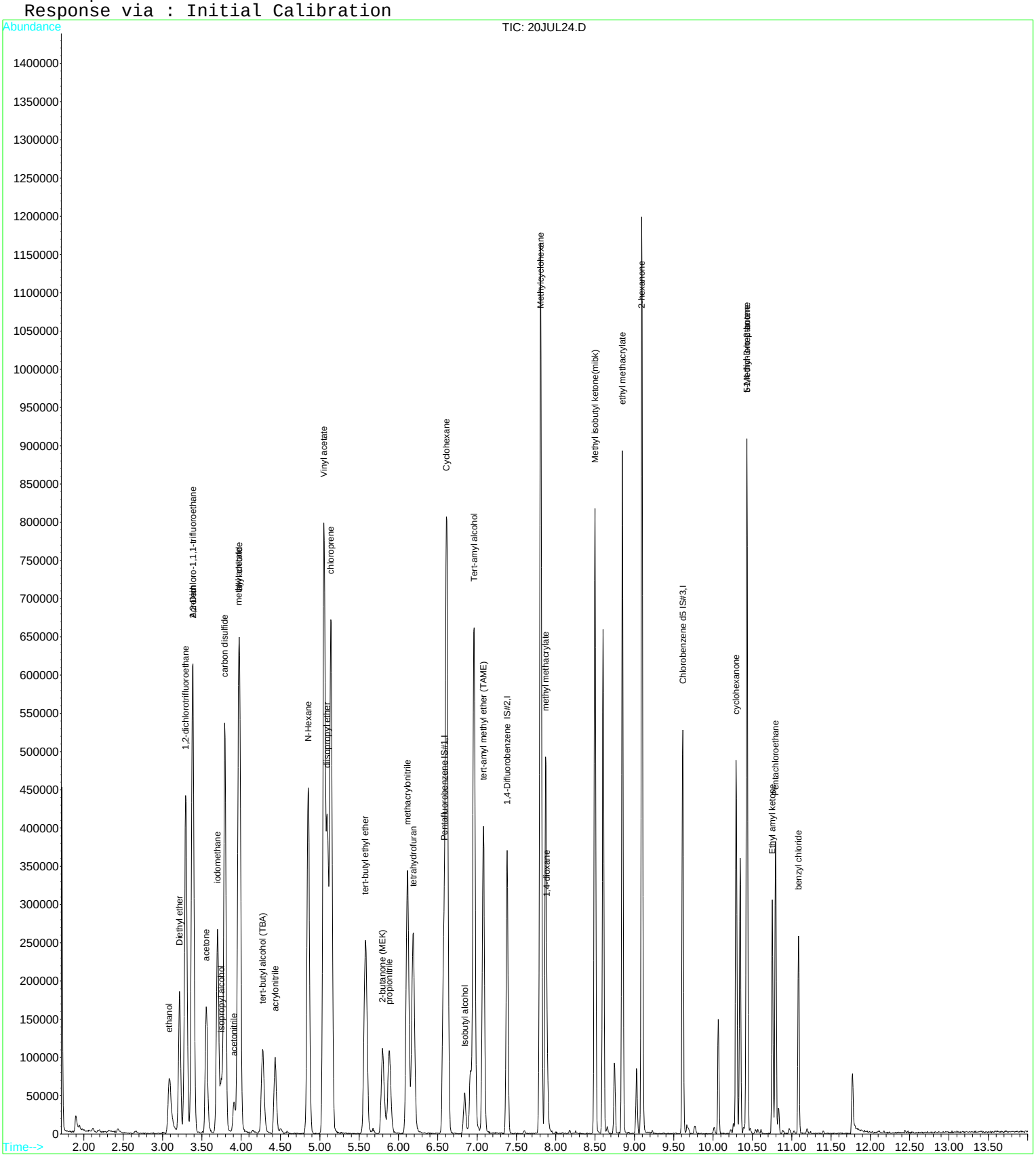
Target Compounds						Qvalue
2) ethanol	3.08	45	127453	3929.60	ug/L #	73
3) 2,2-Dichloro-1,1,1-trifluo	3.38	83	420319	24.64	ug/L #	87
4) 1,2-dichlorotrifluoroethan	3.29	67	292511	24.68	ug/L #	81
5) Diethyl ether	3.22	59	118802	26.41	ug/L	90
6) isopropyl alcohol	3.74	45	122507	819.41	ug/L #	1
7) Acrolein	3.39	56	63185	192.76	ug/L	81
8) acetone	3.56	43	230727	311.29	ug/L	100
9) tert-butyl alcohol (TBA)	4.27	59	165706	778.65	ug/L	100
10) acetonitrile	3.91	41	55234	156.48	ug/L	97
11) methyl acetate	3.97	43	568654	254.75	ug/L	91
12) allyl chloride	3.98	41	557738	30.91	ug/L	98
13) iodomethane	3.70	142	364725	34.40	ug/L	97
14) acrylonitrile	4.43	53	96813	79.22	ug/L	93
15) carbon disulfide	3.79	76	824259	30.22	ug/L	99
16) N-Hexane	4.85	57	287419	24.86	ug/L	87
17) diisopropyl ether	5.09	87	104607	15.56	ug/L	85
18) Vinyl acetate	5.05	43	1569127	149.46	ug/L	97
19) chloroprene	5.14	53	566479	29.87	ug/L	93
20) tert-butyl ethyl ether	5.58	59	328771	14.95	ug/L	98
21) 2-butanone (MEK)	5.79	43	197827	150.32	ug/L	91
22) propionitrile	5.88	54	172476	390.39	ug/L #	88
23) Isobutyl alcohol	6.84	43	44736	438.87	ug/L #	44
24) methacrylonitrile	6.12	67	184168	152.91	ug/L	99
25) Tert-amyl alcohol	6.96	59	447157	2592.35	ug/L	96
26) tetrahydrofuran	6.19	42	263903	298.79	ug/L	92
27) Cyclohexane	6.61	56	558244	23.71	ug/L #	75
28) tert-amyl methyl ether (TA	7.09	73	190513	15.74	ug/L	95
30) methyl methacrylate	7.87	69	159661	76.81	ug/L	92
31) Methylcyclohexane	7.81	55	427662	25.13	ug/L	94
32) 1,4-dioxane	7.89	88	49285	1946.96	ug/L	95
33) Methyl isobutyl ketone(mib	8.50	43	469794	150.81	ug/L	98
34) ethyl methacrylate	8.85	69	360408	75.79	ug/L	97
35) 2-hexanone	9.09	43	633115	300.02	ug/L	95
37) 5-Methyl-3-heptanone	10.43	43	169907	49.65	ug/L	88
38) cyclohexanone	10.29	55	183001	370.13	ug/L	100
39) t-1,4-dichloro-2-butene	10.43	75	62206	79.09	ug/L #	67
40) Ethyl amyl ketone	10.75	57	72626	24.56	ug/L #	79
41) Pentachloroethane	10.79	167	44898	15.02	ug/L	99
42) benzyl chloride	11.09	91	141546	28.55	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL24.D Vial: 24
Acq On : 20 Jul 2017 4:36 pm Operator: MGC
Sample : 1712752-ICV2 Inst : MS-V5
Misc : 1 VO-109-70530;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:21 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL58.D Vial: 58
Acq On : 18 Jul 2017 3:04 am Operator: MGC
Sample : 1712538-ICV3 Inst : MS-V5
Misc : 1 VO-109-70478;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:34 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration
DataAcq Meth : 82605

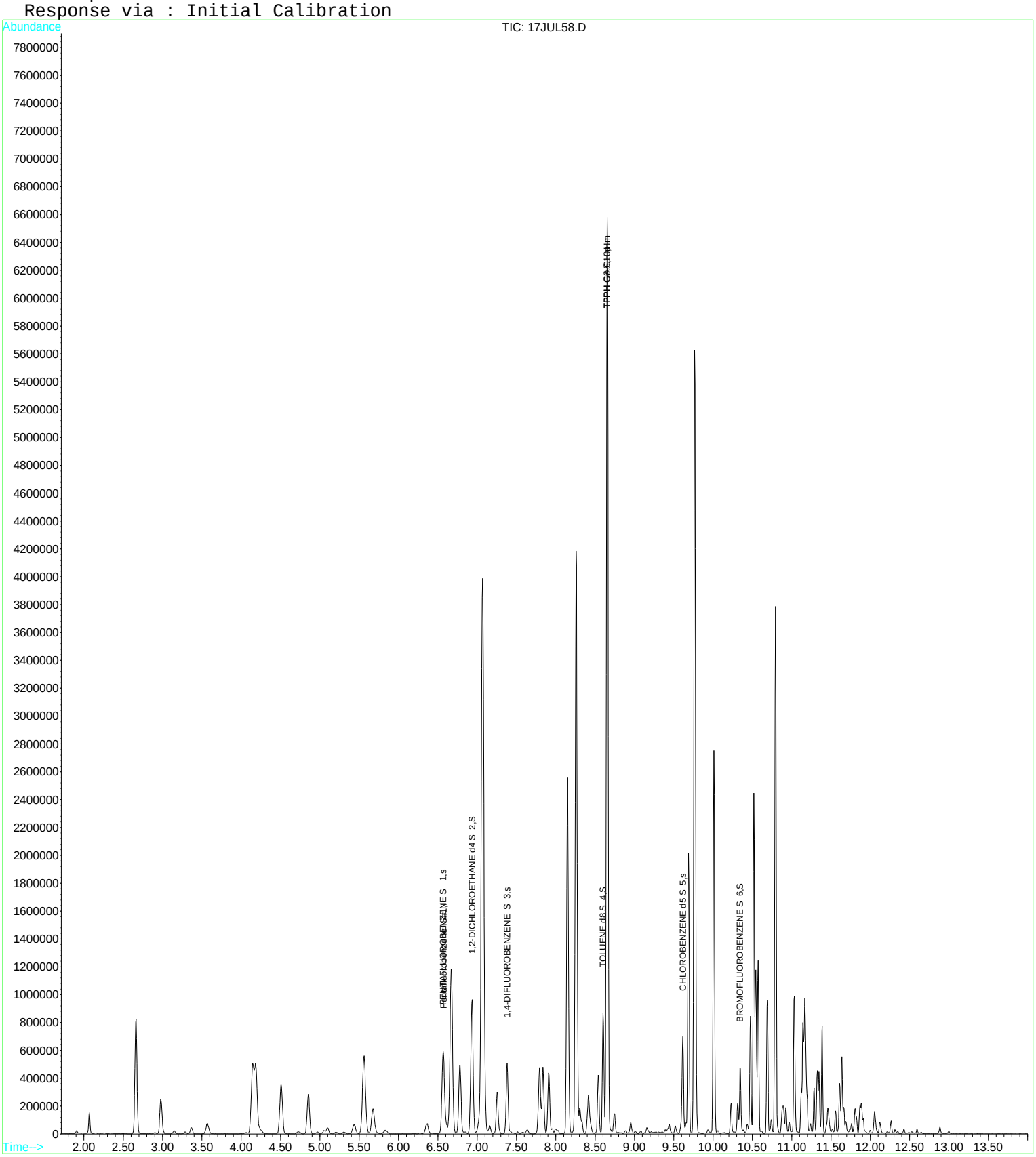
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	224918	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	1493277m	10.37	ug/L	-0.01
3) 1,2-DICHLOROETHANE d4 S 2	6.94	TIC	2010280m	23.92	ug/L	0.01
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	965069m	6.26	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	1251070m	8.77	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	1057563m	10.28	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	690521m	10.73	ug/L	0.00
Target Compounds						Qvalue
8) TPPH-GAS	8.65	TIC	84987165m	1035.57	ug/L	
9) TPPH C6-C10	8.65	TIC	65915481m	1198.57	ug/L	

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL58.D Vial: 58
Acq On : 18 Jul 2017 3:04 am Operator: MGC
Sample : 1712538-ICV3 Inst : MS-V5
Misc : 1 VO-109-70478;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:34 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\18-0046\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration



Raw Data - ICB

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL14.D Vial: 14
Acq On : 20 Jul 2017 12:46 pm Operator: MGC
Sample : 1712752-ICB1 Inst : MS-V5
Misc : 1 ICB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 13:51 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	181261	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	281231	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	73863	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	55952	10.57	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 105.70%			
31) Toluene d8 SMC#2	8.60	98	342270	9.86	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.60%			
49) Bromofluorobenzene SMC#3	10.35	95	109375	9.92	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.20%			

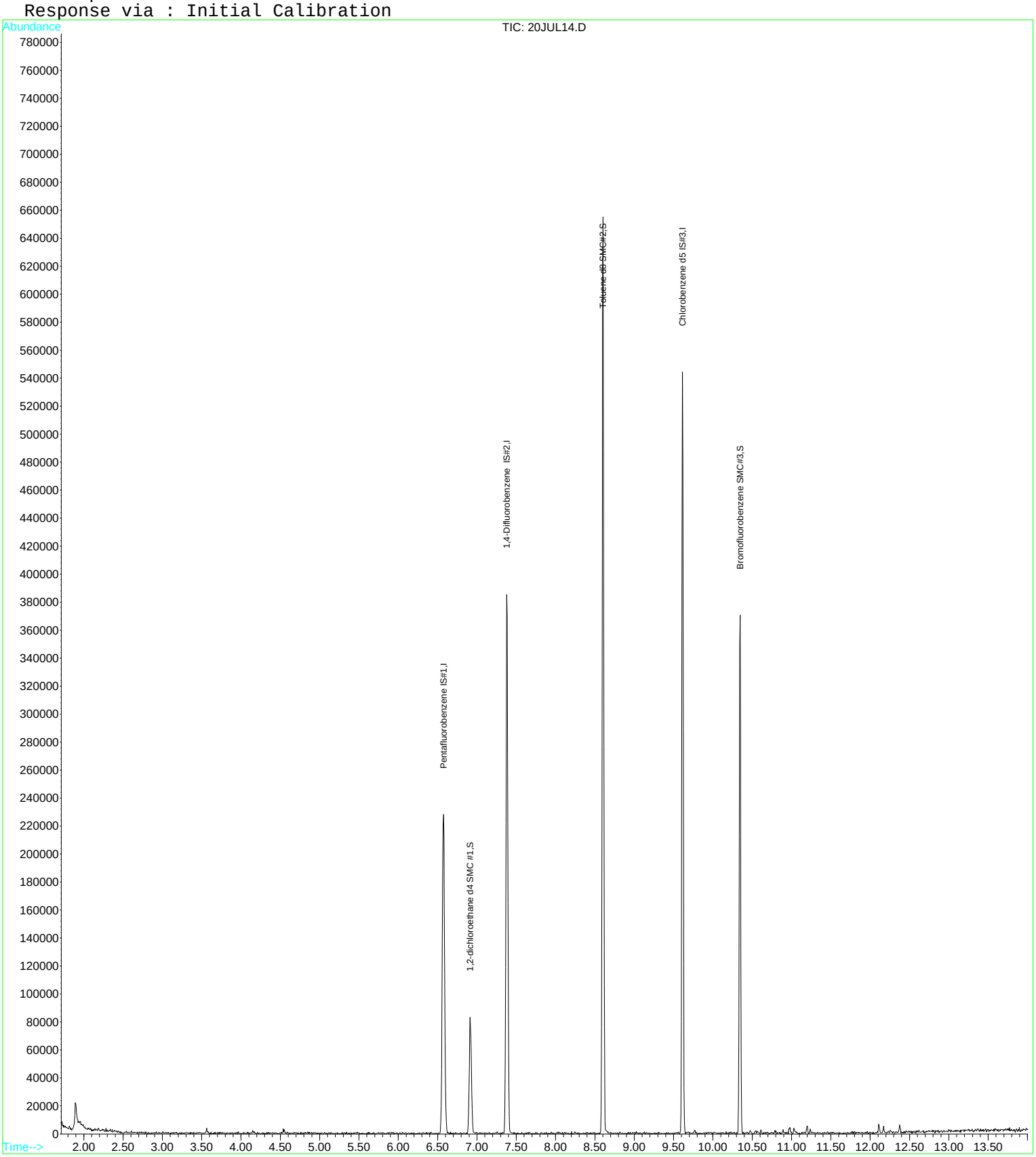
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL14.D Vial: 14
Acq On : 20 Jul 2017 12:46 pm Operator: MGC
Sample : 1712752-ICB1 Inst : MS-V5
Misc : 1 ICB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 13:51 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL26.D Vial: 26
Acq On : 20 Jul 2017 5:22 pm Operator: MGC
Sample : 1712752-ICB2 Inst : MS-V5
Misc : 1 ICB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:22 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	171673	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	268403	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	71809	10.00	ug/L	0.00

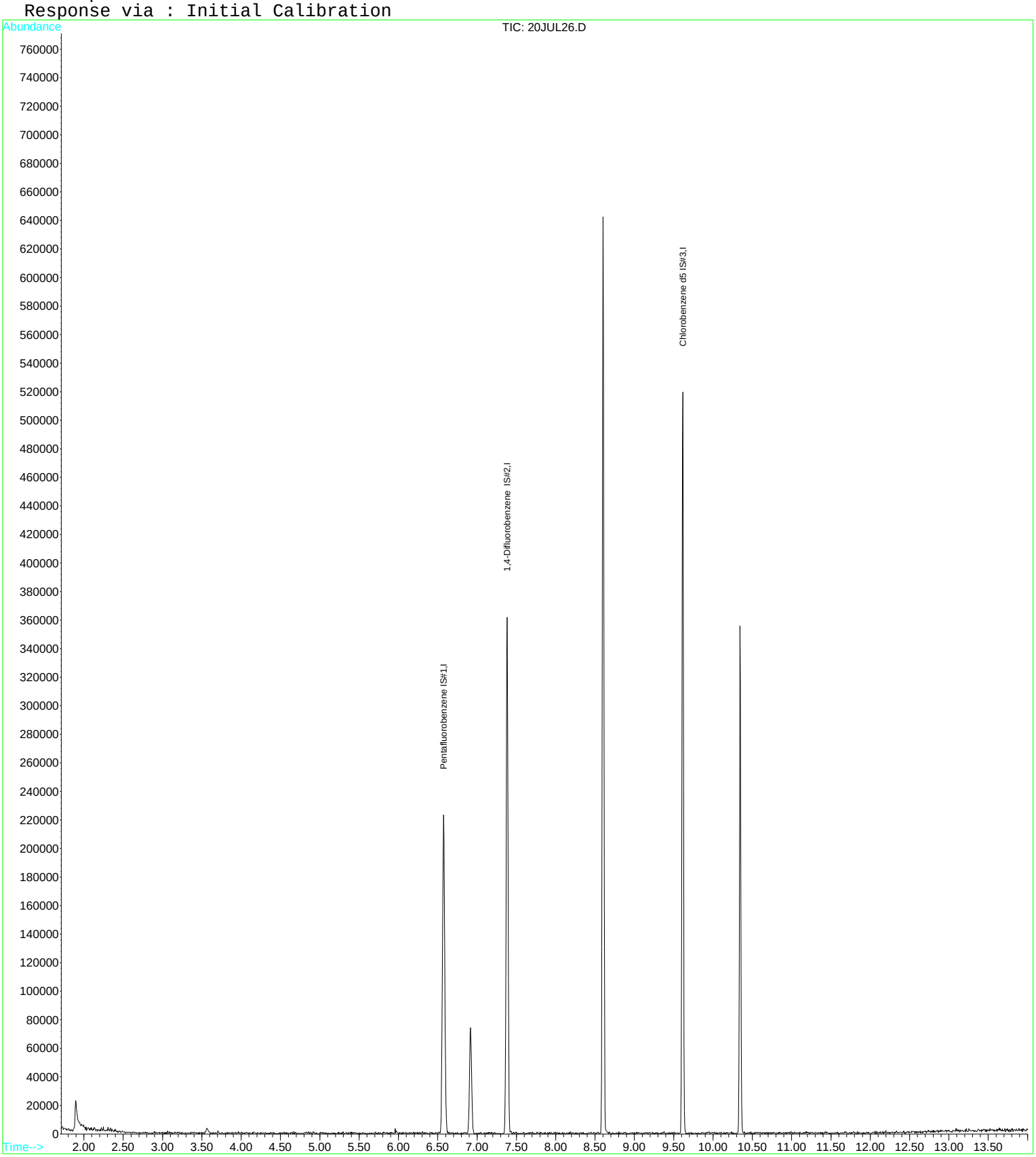
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration
20JUL26.D 82605X.M Fri Jul 21 04:22:10 2017

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL26.D Vial: 26
Acq On : 20 Jul 2017 5:22 pm Operator: MGC
Sample : 1712752-ICB2 Inst : MS-V5
Misc : 1 ICB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 21 4:22 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL60.D Vial: 60
Acq On : 18 Jul 2017 3:50 am Operator: MGC
Sample : 1712538-ICB3 Inst : MS-V5
Misc : 1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:35 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	229984	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	610440m	4.15	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.92	TIC	187691m	2.18	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	812419m	5.15	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	1164238m	7.98	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	903667m	8.59	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	581350m	8.83	ug/L	0.00

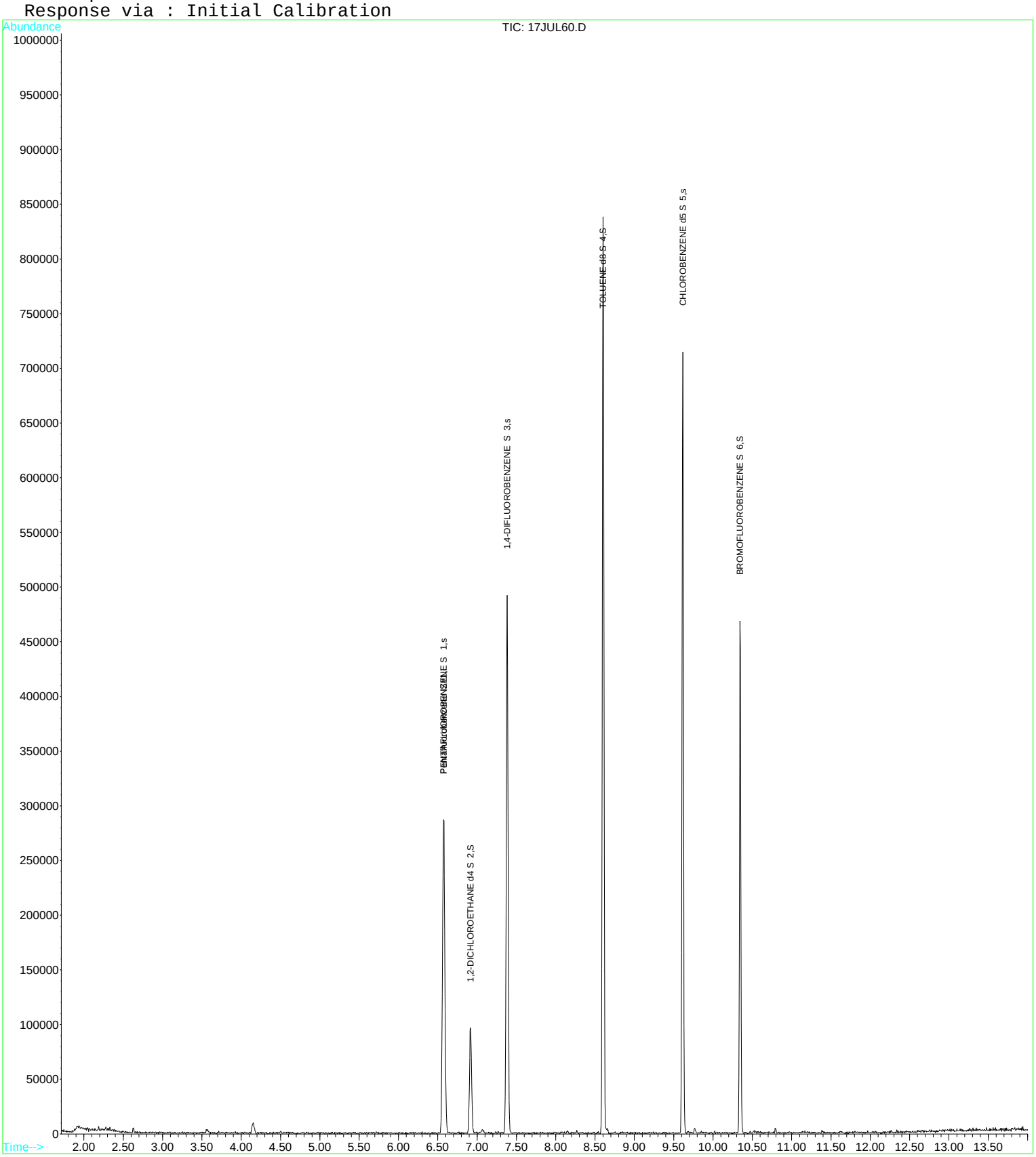
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL60.D Vial: 60
Acq On : 18 Jul 2017 3:50 am Operator: MGC
Sample : 1712538-ICB3 Inst : MS-V5
Misc : 1 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:35 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\18-0046\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration



Raw Data - CCV

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL28.D Vial: 28
Acq On : 25 Jul 2017 4:02 pm Operator: MGC
Sample : 1713088-CCV4 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 16:16 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	185391	10.00	ug/L		0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	281755	10.00	ug/L		0.00
39) Chlorobenzene d5 IS#3	9.62	119	74177	10.00	ug/L		0.00
System Monitoring Compounds							
21) 1,2-dichloroethane d4 SMC	6.91	65	52394	9.68	ug/L		0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 96.80%							
31) Toluene d8 SMC#2	8.60	98	334319	9.61	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 96.10%							
49) Bromofluorobenzene SMC#3	10.34	95	107456	9.70	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 97.00%							
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.76	85	215575	23.37	ug/L		94
3) Chloromethane	1.95	50	311938	17.89	ug/L		97
4) Vinyl chloride	2.07	62	310725	22.36	ug/L	#	66
5) Bromomethane	2.44	94	121601	16.13	ug/L		89
6) Chloroethane	2.57	64	215003	22.54	ug/L		100
7) Trichlorofluoromethane	2.87	101	270063	23.65	ug/L		97
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	195483	24.94	ug/L	#	84
9) 1,1-Dichloroethene	3.51	61	354258	23.68	ug/L		95
10) Methylene chloride	4.15	84	190805	23.85	ug/L		96
11) MTBE	4.48	73	266102	23.77	ug/L	#	77
12) T-1,2-dichloroethene	4.50	96	217818	23.45	ug/L		94
13) 1,1-Dichloroethane	5.05	63	472616	23.82	ug/L		99
14) 2,2-Dichloropropane	5.83	77	271785	24.34	ug/L		92
15) Cis-1,2-dichloroethene	5.82	96	227335	23.48	ug/L		96
16) Bromochloromethane	6.18	128	75045	24.32	ug/L	#	87
17) Chloroform	6.32	83	328261	23.39	ug/L		96
18) 1,1,1-Trichloroethane	6.53	97	287642	23.67	ug/L	#	72
19) 1,1-Dichloropropene	6.72	75	302277	23.82	ug/L		94
20) Carbon tetrachloride	6.72	119	200641	24.09	ug/L		92
22) 1,2-Dichloroethane	7.00	62	180166	23.89	ug/L	#	87
23) Benzene	6.94	78	897731	23.65	ug/L	#	7
25) Trichloroethene	7.60	130	239951	24.80	ug/L		88
26) 1,2-Dichloropropane	7.83	63	259391	24.27	ug/L		94
27) Dibromomethane	7.90	93	65767	24.37	ug/L		96
28) Bromodichloromethane	8.05	83	199987	24.66	ug/L		91
29) 2-ceve	8.27	63	261454	94.70	ug/L	#	76
30) Cis-1,3-dichloropropene	8.40	75	258234	25.50	ug/L		96
32) Toluene	8.65	92	603344	24.72	ug/L		92
33) Trans-1,3-dichloropropene	8.82	75	167759	25.38	ug/L	#	82
34) 1,1,2-Trichloroethane	8.97	97	104868	23.91	ug/L		86
35) Tetrachloroethene (PCE)	9.03	166	230189	24.83	ug/L		95
36) 1,3-Dichloropropane	9.08	76	174841	24.54	ug/L		91
37) Dibromochloromethane	9.23	129	111228	26.24	ug/L	#	96
38) 1,2-Dibromoethane	9.32	107	89252	24.48	ug/L		94
40) Chlorobenzene	9.63	112	596684	24.26	ug/L		90
41) 1,1,1,2-Tetrachloroethane	9.69	131	161470	26.68	ug/L		97
42) Ethylbenzene	9.69	106	362339	25.07	ug/L		81
43) P+m-Xylene	9.77	106	868893	49.15	ug/L		99
44) O-Xylene	10.01	106	407998	24.97	ug/L		90
45) Styrene	10.02	104	629730	25.29	ug/L		92
46) Bromoform	10.15	173	47351	26.01	ug/L	#	100
47) Isopropylbenzene	10.23	105	1064621	25.18	ug/L		98
48) 1,1,2,2-Tetrachloroethane	10.41	83	103597	25.69	ug/L		96
50) 1,2,3-Trichloropropane	10.45	110	23253	27.12	ug/L	#	19
51) n-propylbenzene	10.48	91	1308312	23.82	ug/L		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL28.D Vial: 28
Acq On : 25 Jul 2017 4:02 pm Operator: MGC
Sample : 1713088-CCV4 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 16:16 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

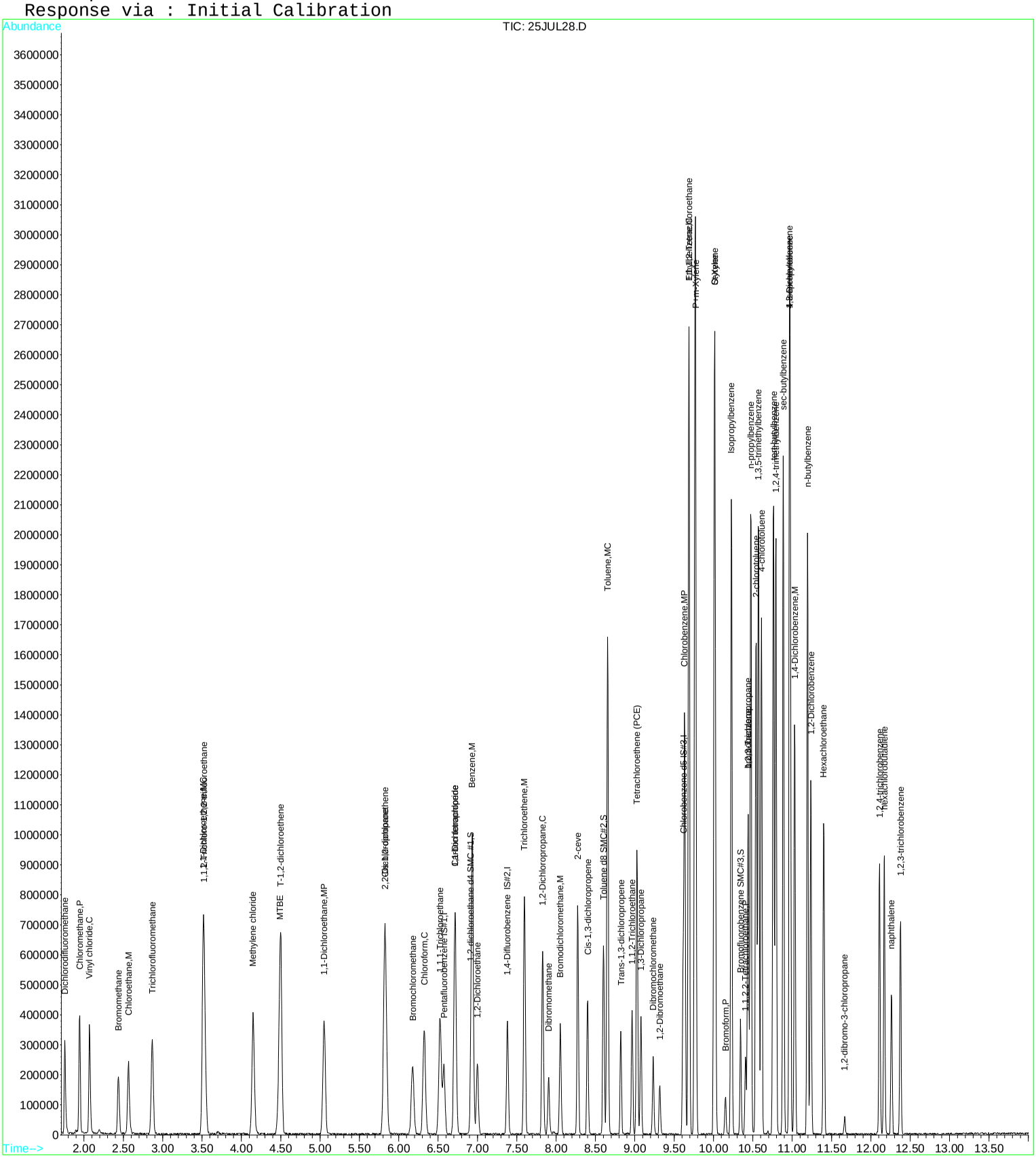
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
52) bromobenzene	10.44	156	214160	24.72 ug/L	90
53) 1,3,5-trimethylbenzene	10.57	105	882937	25.23 ug/L	93
54) 2-chlorotoluene	10.54	91	850610	24.52 ug/L	99
55) 4-chlorotoluene	10.61	91	781154	24.93 ug/L	97
56) tert-butylbenzene	10.76	119	831455	24.05 ug/L	97
57) 1,2,4-trimethylbenzene	10.79	105	848481	24.48 ug/L	95
58) sec-butylbenzene	10.89	105	1190097	25.41 ug/L	100
59) 4-isopropyltoluene	10.96	119	953242	24.96 ug/L	97
60) 1,3-Dichlorobenzene	10.97	146	471946	25.45 ug/L	93
61) 1,4-Dichlorobenzene	11.03	146	463384	25.57 ug/L	95
62) n-butylbenzene	11.19	91	863306	24.25 ug/L	99
63) 1,2-Dichlorobenzene	11.24	146	400716	25.05 ug/L	95
64) Hexachloroethane	11.40	117	139864	21.93 ug/L #	70
65) 1,2-dibromo-3-chloropropan	11.67	75	13760	25.31 ug/L	93
66) 1,2,4-trichlorobenzene	12.11	180	224598	24.24 ug/L	99
67) hexachlorobutadiene	12.17	225	156170	24.35 ug/L #	84
68) naphthalene	12.26	128	286239	24.59 ug/L	100
69) 1,2,3-trichlorobenzene	12.38	180	184643	23.75 ug/L #	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL28.D Vial: 28
Acq On : 25 Jul 2017 4:02 pm Operator: MGC
Sample : 1713088-CCV4 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 25 16:16 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL29.D Vial: 29
Acq On : 25 Jul 2017 4:25 pm Operator: MGC
Sample : 1713088-CCV5 Inst : MS-V5
Misc : 1 VO-109-70519;70520;70521;70522;70523;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:24 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	183539	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	282647	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	71623	10.00	ug/L	0.00

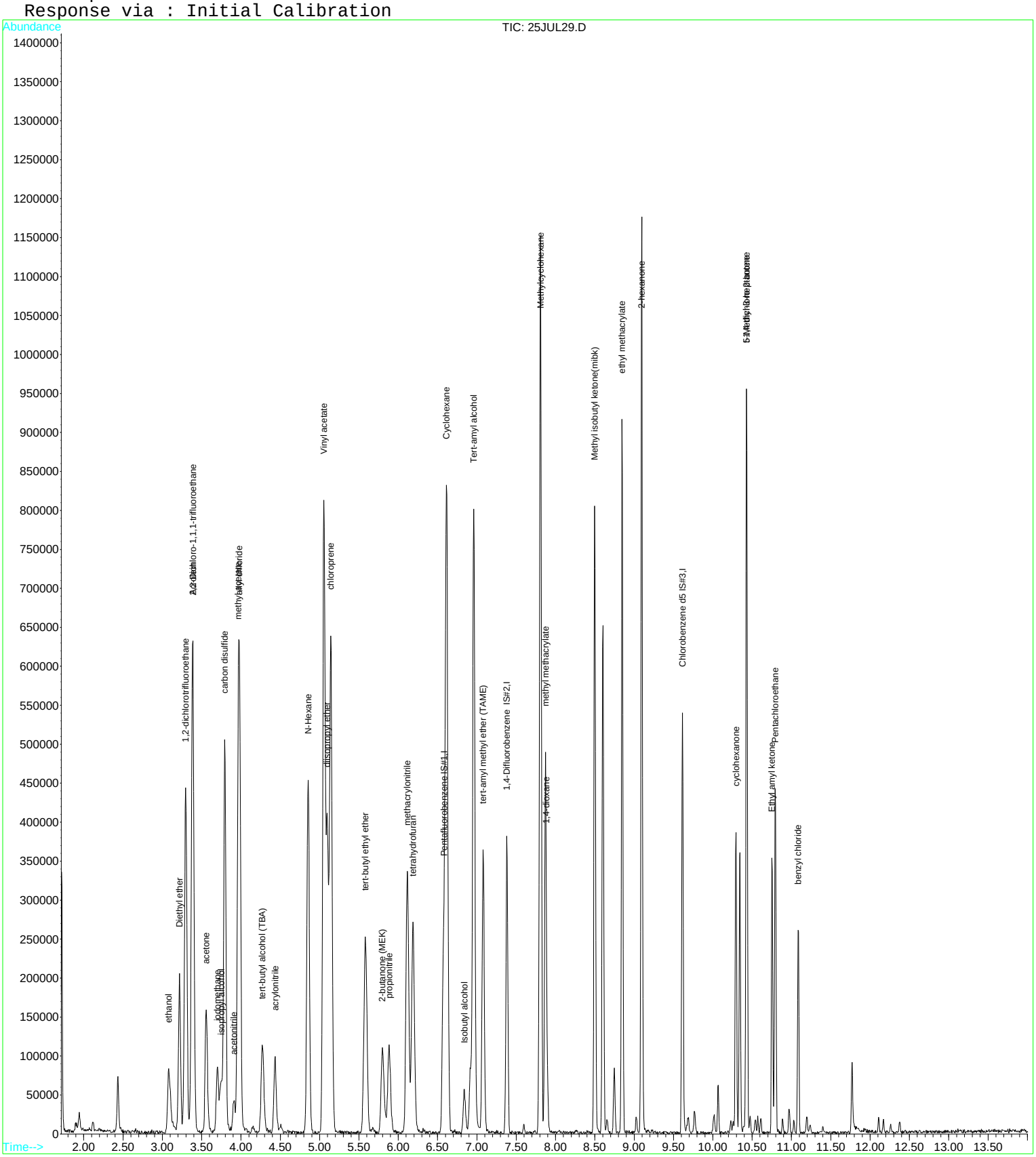
Target Compounds						Qvalue
2) ethanol	3.08	45	132800	4012.74	ug/L #	74
3) 2,2-Dichloro-1,1,1-trifluo	3.38	83	422951	24.30	ug/L #	87
4) 1,2-dichlorotrifluoroethan	3.30	67	296515	24.52	ug/L #	80
5) Diethyl ether	3.22	59	123811	26.98	ug/L	87
6) isopropyl alcohol	3.75	45	120793	791.83	ug/L #	1
7) Acrolein	3.39	56	83961	251.03	ug/L	87
8) acetone	3.56	43	224457	296.79	ug/L	100
9) tert-butyl alcohol (TBA)	4.28	59	169030	778.41	ug/L	100
10) acetonitrile	3.91	41	58951	163.67	ug/L	100
11) methyl acetate	3.96	43	601434	264.06	ug/L #	90
12) allyl chloride	3.98	41	519271	28.20	ug/L	96
13) iodomethane	3.70	142	114117	10.55	ug/L	95
14) acrylonitrile	4.43	53	91901	73.70	ug/L	88
15) carbon disulfide	3.79	76	778964	27.99	ug/L	99
16) N-Hexane	4.85	57	287973	24.41	ug/L	87
17) diisopropyl ether	5.09	87	100026	14.58	ug/L	87
18) Vinyl acetate	5.05	43	1586649	148.12	ug/L	97
19) chloroprene	5.14	53	533720	27.58	ug/L	93
20) tert-butyl ethyl ether	5.58	59	322195	14.36	ug/L	99
21) 2-butanone (MEK)	5.80	43	194107	144.55	ug/L	89
22) propionitrile	5.88	54	168383	373.52	ug/L #	89
23) Isobutyl alcohol	6.84	43	45008	432.73	ug/L #	33
24) methacrylonitrile	6.12	67	182408	148.43	ug/L	98
25) Tert-amyl alcohol	6.96	59	540906	3073.27	ug/L	94
26) tetrahydrofuran	6.19	42	268831	298.30	ug/L	91
27) Cyclohexane	6.61	56	573437	23.87	ug/L #	77
28) tert-amyl methyl ether (TA	7.08	73	183529	14.86	ug/L	92
30) methyl methacrylate	7.87	69	165637	78.49	ug/L	99
31) Methylcyclohexane	7.81	55	419089	24.26	ug/L	93
32) 1,4-dioxane	7.89	88	49603	1930.24	ug/L	92
33) Methyl isobutyl ketone(mib	8.50	43	464412	146.86	ug/L	99
34) ethyl methacrylate	8.85	69	377212	78.14	ug/L	97
35) 2-hexanone	9.10	43	623379	290.99	ug/L	95
37) 5-Methyl-3-heptanone	10.43	43	176283	53.73	ug/L	91
38) cyclohexanone	10.30	55	150235	316.93	ug/L	97
39) t-1,4-dichloro-2-butene	10.42	75	65620	87.02	ug/L #	61
40) Ethyl amyl ketone	10.75	57	84561	29.83	ug/L #	78
41) Pentachloroethane	10.80	167	55893	19.51	ug/L	97
42) benzyl chloride	11.08	91	148108	30.92	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL29.D Vial: 29
Acq On : 25 Jul 2017 4:25 pm Operator: MGC
Sample : 1713088-CCV5 Inst : MS-V5
Misc : 1 VO-109-70519;70520;70521;70522;70523;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:24 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL58.D Vial: 58
Acq On : 26 Jul 2017 3:31 am Operator: MGC
Sample : 1713088-CCV7 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 3:45 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	164932	10.00	ug/L		0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	255405	10.00	ug/L		0.00
39) Chlorobenzene d5 IS#3	9.62	119	66016	10.00	ug/L		0.00
System Monitoring Compounds							
21) 1,2-dichloroethane d4 SMC	6.92	65	47634	9.89	ug/L		0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 98.90%							
31) Toluene d8 SMC#2	8.60	98	304935	9.67	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 96.70%							
49) Bromofluorobenzene SMC#3	10.34	95	101074	10.25	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 102.50%							
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.76	85	216646	26.40	ug/L		94
3) Chloromethane	1.94	50	289073	18.63	ug/L		96
4) Vinyl chloride	2.07	62	303153	24.53	ug/L	#	72
5) Bromomethane	2.43	94	63297	9.44	ug/L		89
6) Chloroethane	2.57	64	211721	24.95	ug/L		99
7) Trichlorofluoromethane	2.87	101	278950	27.46	ug/L		97
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	184888	26.51	ug/L	#	83
9) 1,1-Dichloroethene	3.51	61	357062	26.83	ug/L		95
10) Methylene chloride	4.15	84	176487	24.80	ug/L		96
11) MTBE	4.48	73	240643	24.16	ug/L	#	76
12) T-1,2-dichloroethene	4.50	96	215716	26.11	ug/L		93
13) 1,1-Dichloroethane	5.05	63	450638	25.53	ug/L		98
14) 2,2-Dichloropropane	5.83	77	210844	21.23	ug/L		86
15) Cis-1,2-dichloroethene	5.82	96	212302	24.65	ug/L		96
16) Bromochloromethane	6.17	128	71583	26.08	ug/L	#	91
17) Chloroform	6.33	83	324905	26.02	ug/L		96
18) 1,1,1-Trichloroethane	6.53	97	289653	26.80	ug/L	#	71
19) 1,1-Dichloropropene	6.72	75	291439	25.81	ug/L		95
20) Carbon tetrachloride	6.71	119	199125	26.87	ug/L		92
22) 1,2-Dichloroethane	7.00	62	174650	26.03	ug/L	#	87
23) Benzene	6.94	78	850389	25.18	ug/L	#	8
25) Trichloroethene	7.60	130	245628	28.01	ug/L		88
26) 1,2-Dichloropropane	7.83	63	241929	24.97	ug/L		96
27) Dibromomethane	7.90	93	63818	26.09	ug/L		96
28) Bromodichloromethane	8.05	83	189933	25.83	ug/L		90
29) 2-ceve	8.27	63	222062	88.73	ug/L	#	77
30) Cis-1,3-dichloropropene	8.40	75	231309	25.20	ug/L		97
32) Toluene	8.65	92	575489	26.01	ug/L		92
33) Trans-1,3-dichloropropene	8.82	75	158219	26.40	ug/L		88
34) 1,1,2-Trichloroethane	8.96	97	96807	24.35	ug/L		85
35) Tetrachloroethene (PCE)	9.03	166	232806	27.70	ug/L		95
36) 1,3-Dichloropropane	9.08	76	157534	24.40	ug/L		94
37) Dibromochloromethane	9.23	129	101129	26.32	ug/L	#	95
38) 1,2-Dibromoethane	9.32	107	80706	24.42	ug/L		93
40) Chlorobenzene	9.64	112	566675	25.89	ug/L		90
41) 1,1,1,2-Tetrachloroethane	9.69	131	151928	28.20	ug/L		99
42) Ethylbenzene	9.69	106	344173	26.76	ug/L		83
43) P+m-Xylene	9.77	106	838886	53.32	ug/L		100
44) O-Xylene	10.01	106	391935	26.96	ug/L		90
45) Styrene	10.02	104	599650	27.06	ug/L		93
46) Bromoform	10.15	173	43791	27.02	ug/L	#	100
47) Isopropylbenzene	10.23	105	1035685	27.52	ug/L		99
48) 1,1,2,2-Tetrachloroethane	10.40	83	84578	23.56	ug/L		96
50) 1,2,3-Trichloropropane	10.45	110	21482	28.15	ug/L	#	18
51) n-propylbenzene	10.48	91	1253259	25.64	ug/L		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL58.D Vial: 58
Acq On : 26 Jul 2017 3:31 am Operator: MGC
Sample : 1713088-CCV7 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 3:45 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

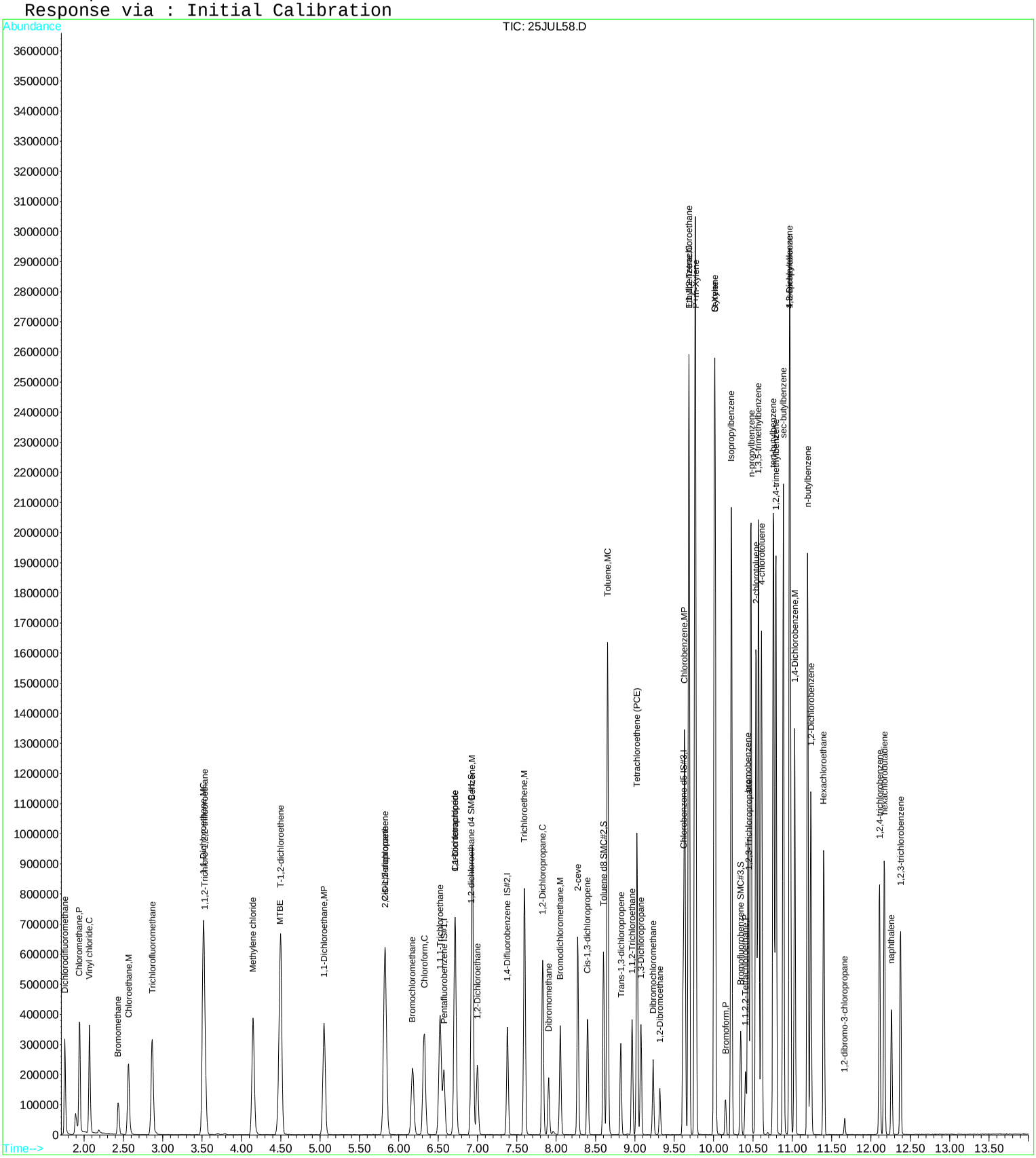
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
52) bromobenzene	10.44	156	204724	26.55 ug/L	93
53) 1,3,5-trimethylbenzene	10.57	105	861219	27.65 ug/L	94
54) 2-chlorotoluene	10.54	91	829725	26.87 ug/L	98
55) 4-chlorotoluene	10.61	91	760227	27.26 ug/L	97
56) tert-butylbenzene	10.76	119	810913	26.36 ug/L	98
57) 1,2,4-trimethylbenzene	10.79	105	812725	26.35 ug/L	94
58) sec-butylbenzene	10.89	105	1150772	27.61 ug/L	100
59) 4-isopropyltoluene	10.96	119	919673	27.05 ug/L	97
60) 1,3-Dichlorobenzene	10.97	146	441737	26.77 ug/L	94
61) 1,4-Dichlorobenzene	11.03	146	433845	26.90 ug/L	96
62) n-butylbenzene	11.19	91	817182	25.80 ug/L	99
63) 1,2-Dichlorobenzene	11.23	146	376933	26.48 ug/L	96
64) Hexachloroethane	11.40	117	120512	21.28 ug/L #	73
65) 1,2-dibromo-3-chloropropan	11.66	75	12335	25.49 ug/L	93
66) 1,2,4-trichlorobenzene	12.11	180	210918	25.58 ug/L	100
67) hexachlorobutadiene	12.17	225	150643	26.39 ug/L #	87
68) naphthalene	12.26	128	257377	24.85 ug/L	100
69) 1,2,3-trichlorobenzene	12.38	180	172306	24.90 ug/L #	91

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL58.D Vial: 58
Acq On : 26 Jul 2017 3:31 am Operator: MGC
Sample : 1713088-CCV7 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 3:45 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL59.D Vial: 59
Acq On : 26 Jul 2017 3:54 am Operator: MGC
Sample : 1713088-CCV8 Inst : MS-V5
Misc : 1 VO-109-70519;70520;70521;70522;70523;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:02 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	170638	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	257374	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.62	119	69001	10.00	ug/L		0.00

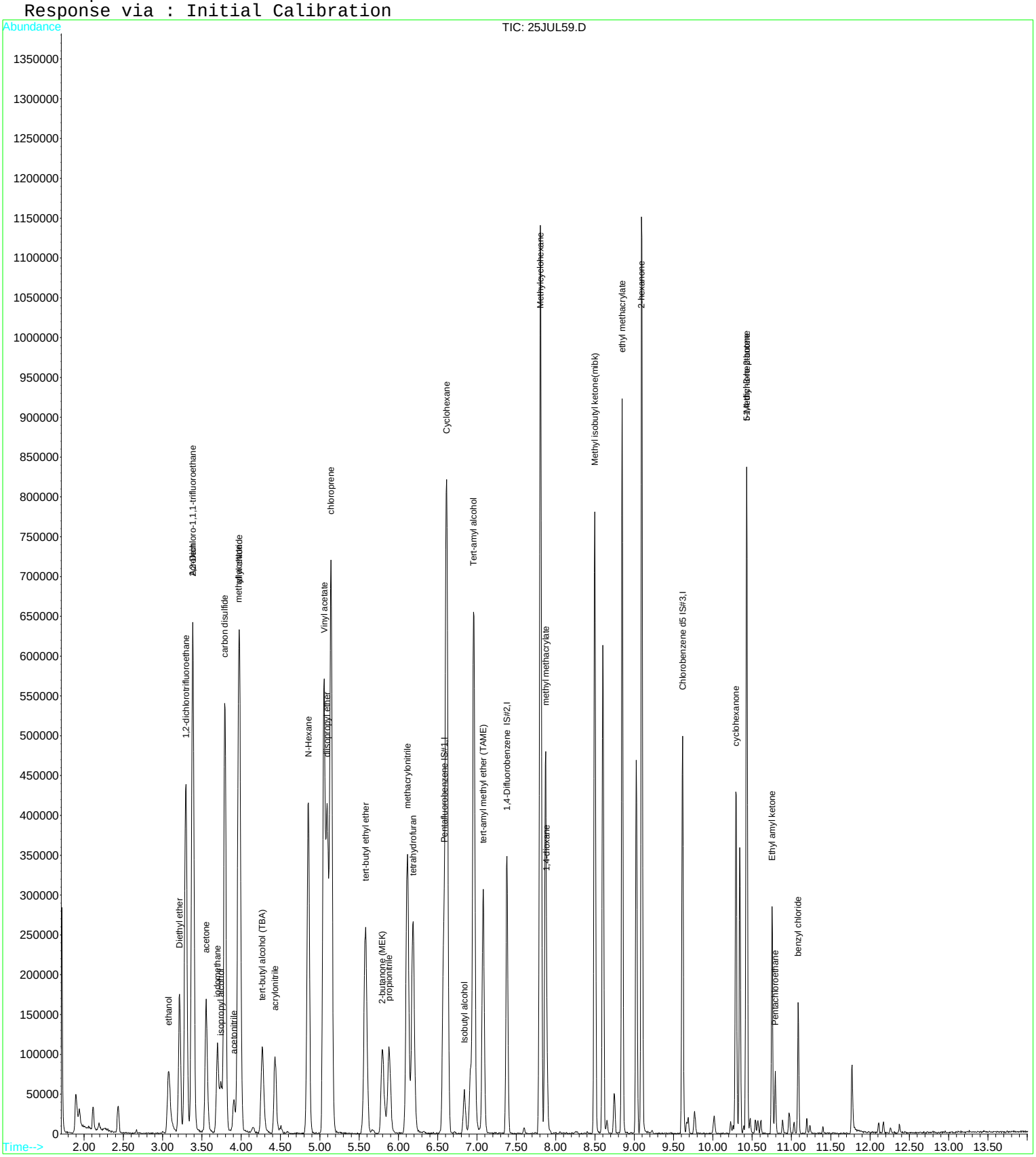
Target Compounds							Qvalue
2) ethanol	3.08	45	127492	4143.61	ug/L	#	73
3) 2,2-Dichloro-1,1,1-trifluo	3.39	83	426741	26.37	ug/L	#	88
4) 1,2-dichlorotrifluoroethan	3.30	67	292376	26.01	ug/L	#	80
5) Diethyl ether	3.22	59	112301	26.32	ug/L		89
6) isopropyl alcohol	3.74	45	117501	828.48	ug/L	#	1
7) Acrolein	3.39	56	79826	256.71	ug/L		86
8) acetone	3.55	43	232168	330.20	ug/L		98
9) tert-butyl alcohol (TBA)	4.27	59	163987	812.29	ug/L		100
10) acetonitrile	3.91	41	56560	168.91	ug/L		98
11) methyl acetate	3.96	43	542504	256.19	ug/L	#	90
12) allyl chloride	3.98	41	550969	32.19	ug/L		98
13) iodomethane	3.70	142	150338	14.95	ug/L		98
14) acrylonitrile	4.43	53	95808	82.64	ug/L		93
15) carbon disulfide	3.79	76	843161	32.59	ug/L		100
16) N-Hexane	4.85	57	263032	23.98	ug/L		87
17) diisopropyl ether	5.10	87	99109	15.54	ug/L		94
18) Vinyl acetate	5.05	43	1179779	118.46	ug/L		99
19) chloroprene	5.14	53	606316	33.70	ug/L		95
20) tert-butyl ethyl ether	5.58	59	329637	15.80	ug/L		97
21) 2-butanone (MEK)	5.80	43	191057	153.04	ug/L		91
22) propionitrile	5.89	54	170012	405.64	ug/L	#	89
23) Isobutyl alcohol	6.84	43	42628	440.83	ug/L	#	34
24) methacrylonitrile	6.12	67	182723	159.92	ug/L		98
25) Tert-amyl alcohol	6.96	59	444234	2714.84	ug/L		97
26) tetrahydrofuran	6.19	42	267677	319.47	ug/L		94
27) Cyclohexane	6.61	56	560294	25.09	ug/L	#	75
28) tert-amyl methyl ether (TA	7.08	73	182556	15.90	ug/L		92
30) methyl methacrylate	7.87	69	156416	81.40	ug/L		89
31) Methylcyclohexane	7.81	55	418282	26.59	ug/L		95
32) 1,4-dioxane	7.89	88	44436	1898.97	ug/L		97
33) Methyl isobutyl ketone(mib	8.50	43	469190	162.94	ug/L		100
34) ethyl methacrylate	8.85	69	359249	81.72	ug/L		96
35) 2-hexanone	9.09	43	629576	322.74	ug/L		98
37) 5-Methyl-3-heptanone	10.43	43	160706	50.85	ug/L		88
38) cyclohexanone	10.29	55	170357	373.04	ug/L		98
39) t-1,4-dichloro-2-butene	10.42	75	47707	65.67	ug/L		72
40) Ethyl amyl ketone	10.75	57	71155	26.05	ug/L		77
41) Pentachloroethane	10.79	167	5916	2.14	ug/L		94
42) benzyl chloride	11.09	91	90146	20.53	ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL59.D Vial: 59
Acq On : 26 Jul 2017 3:54 am Operator: MGC
Sample : 1713088-CCV8 Inst : MS-V5
Misc : 1 VO-109-70519;70520;70521;70522;70523;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:02 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL02.D Vial: 2
Acq On : 26 Jul 2017 2:15 pm Operator: MGC
Sample : 1713164-CCV1 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 14:29 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	169599	10.00	ug/L		0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	246566	10.00	ug/L		0.00
39) Chlorobenzene d5 IS#3	9.62	119	66497	10.00	ug/L		0.00
System Monitoring Compounds							
21) 1,2-dichloroethane d4 SMC	6.92	65	49148	9.92	ug/L		0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 99.20%							
31) Toluene d8 SMC#2	8.60	98	305829	10.04	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 100.40%							
49) Bromofluorobenzene SMC#3	10.34	95	98170	9.89	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 98.90%							
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.76	85	217144	25.73	ug/L		93
3) Chloromethane	1.95	50	324207	20.32	ug/L		98
4) Vinyl chloride	2.07	62	313962	24.70	ug/L	#	69
5) Bromomethane	2.44	94	96090	13.94	ug/L	#	90
6) Chloroethane	2.57	64	204782	23.46	ug/L		99
7) Trichlorofluoromethane	2.87	101	277430	26.56	ug/L		98
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	192530	26.85	ug/L	#	84
9) 1,1-Dichloroethene	3.52	61	355106	25.95	ug/L		95
10) Methylene chloride	4.15	84	173450	23.70	ug/L		96
11) MTBE	4.48	73	248710	24.29	ug/L	#	77
12) T-1,2-dichloroethene	4.50	96	209514	24.66	ug/L		94
13) 1,1-Dichloroethane	5.05	63	444498	24.49	ug/L		100
14) 2,2-Dichloropropane	5.83	77	272560	26.69	ug/L		88
15) Cis-1,2-dichloroethene	5.82	96	219127	24.74	ug/L		96
16) Bromochloromethane	6.18	128	70866	25.11	ug/L	#	86
17) Chloroform	6.32	83	320343	24.95	ug/L		95
18) 1,1,1-Trichloroethane	6.52	97	289699	26.06	ug/L	#	72
19) 1,1-Dichloropropene	6.72	75	290418	25.01	ug/L		95
20) Carbon tetrachloride	6.71	119	202635	26.59	ug/L		92
22) 1,2-Dichloroethane	7.00	62	178723	25.90	ug/L	#	91
23) Benzene	6.94	78	866546	24.95	ug/L	#	8
25) Trichloroethene	7.60	130	232105	27.41	ug/L		87
26) 1,2-Dichloropropane	7.83	63	243189	26.00	ug/L		95
27) Dibromomethane	7.90	93	63998	27.10	ug/L		98
28) Bromodichloromethane	8.05	83	192073	27.06	ug/L		90
29) 2-ceve	8.27	63	231750	95.92	ug/L	#	76
30) Cis-1,3-dichloropropene	8.40	75	244599	27.60	ug/L		96
32) Toluene	8.65	92	581447	27.22	ug/L		92
33) Trans-1,3-dichloropropene	8.82	75	162955	28.17	ug/L	#	85
34) 1,1,2-Trichloroethane	8.96	97	96983	25.27	ug/L		85
35) Tetrachloroethene (PCE)	9.03	166	229042	28.23	ug/L		94
36) 1,3-Dichloropropane	9.08	76	160561	25.76	ug/L		92
37) Dibromochloromethane	9.23	129	103578	27.93	ug/L	#	91
38) 1,2-Dibromoethane	9.32	107	82907	25.99	ug/L		96
40) Chlorobenzene	9.63	112	557304	25.27	ug/L		91
41) 1,1,1,2-Tetrachloroethane	9.69	131	151603	27.94	ug/L		97
42) Ethylbenzene	9.69	106	346356	26.73	ug/L		82
43) P+m-Xylene	9.77	106	842502	53.16	ug/L		99
44) O-Xylene	10.01	106	389326	26.58	ug/L		91
45) Styrene	10.02	104	599768	26.87	ug/L		93
46) Bromoform	10.15	173	46455	28.46	ug/L	#	100
47) Isopropylbenzene	10.23	105	1025484	27.05	ug/L		98
48) 1,1,2,2-Tetrachloroethane	10.40	83	96787	26.77	ug/L		91
50) 1,2,3-Trichloropropane	10.45	110	21012	27.33	ug/L	#	17
51) n-propylbenzene	10.47	91	1264702	25.69	ug/L		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL02.D Vial: 2
Acq On : 26 Jul 2017 2:15 pm Operator: MGC
Sample : 1713164-CCV1 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 14:29 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

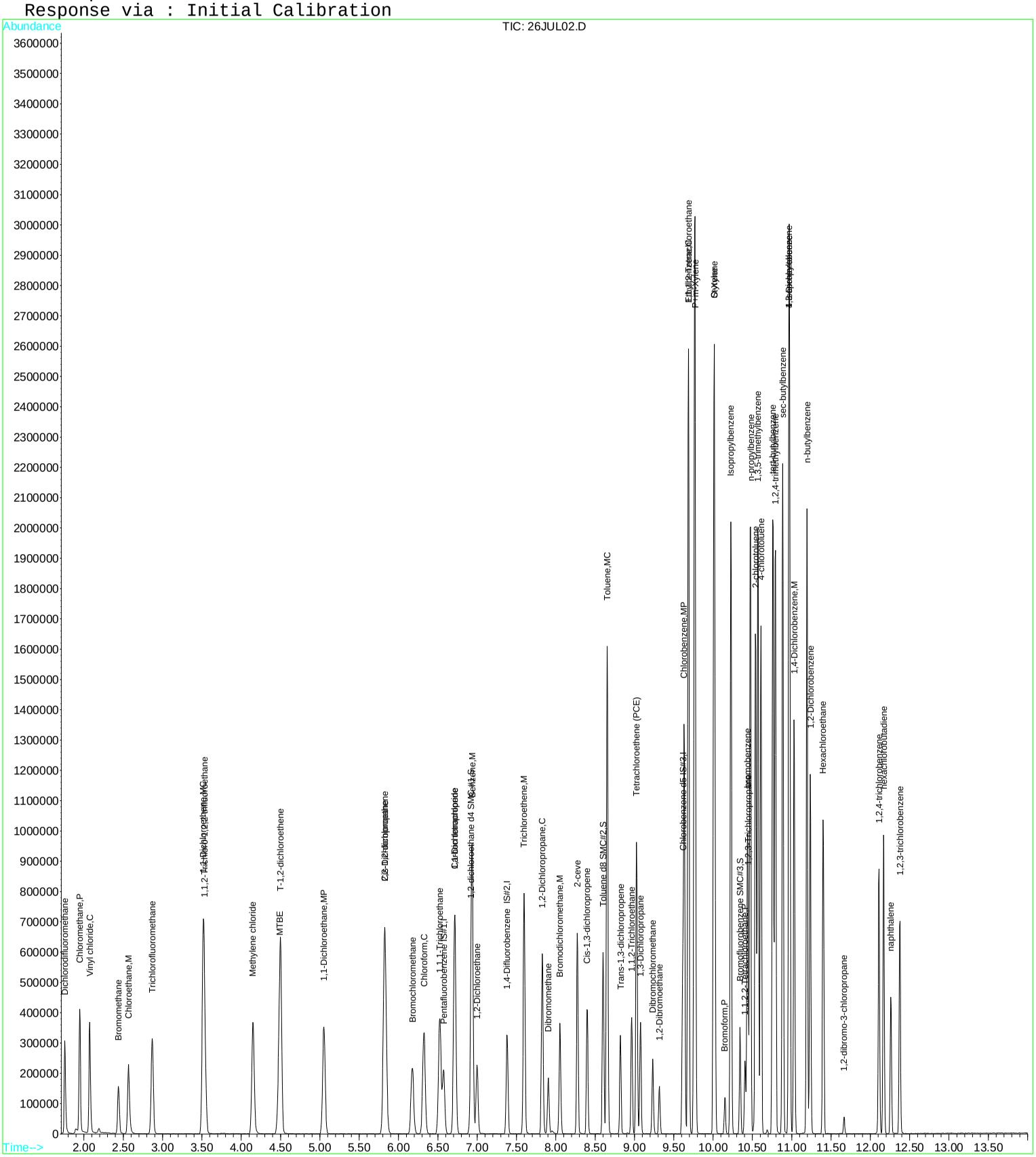
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	204424	26.32	ug/L		92
53)	1,3,5-trimethylbenzene	10.57	105	855998	27.29	ug/L		93
54)	2-chlorotoluene	10.54	91	830726	26.71	ug/L		98
55)	4-chlorotoluene	10.61	91	756922	26.95	ug/L		98
56)	tert-butylbenzene	10.76	119	824621	26.61	ug/L		96
57)	1,2,4-trimethylbenzene	10.79	105	840457	27.05	ug/L		96
58)	sec-butylbenzene	10.89	105	1177026	28.03	ug/L		99
59)	4-isopropyltoluene	10.96	119	942218	27.52	ug/L		96
60)	1,3-Dichlorobenzene	10.97	146	459792	27.66	ug/L		94
61)	1,4-Dichlorobenzene	11.03	146	449867	27.69	ug/L		95
62)	n-butylbenzene	11.19	91	852071	26.70	ug/L		99
63)	1,2-Dichlorobenzene	11.23	146	390592	27.24	ug/L		96
64)	Hexachloroethane	11.40	117	140597	24.37	ug/L	#	70
65)	1,2-dibromo-3-chloropropan	11.66	75	12028	24.68	ug/L		93
66)	1,2,4-trichlorobenzene	12.11	180	224344	27.01	ug/L		99
67)	hexachlorobutadiene	12.17	225	155942	27.12	ug/L	#	82
68)	naphthalene	12.26	128	273899	26.25	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	178326	25.58	ug/L	#	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL02.D Vial: 2
Acq On : 26 Jul 2017 2:15 pm Operator: MGC
Sample : 1713164-CCV1 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 14:29 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL03.D Vial: 3
Acq On : 26 Jul 2017 2:38 pm Operator: MGC
Sample : 1713164-CCV2 Inst : MS-V5
Misc : 1 VO-109-70519;70520;70521;70522;70523;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 3:54 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	151381	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	227574	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	62028	10.00	ug/L	0.00

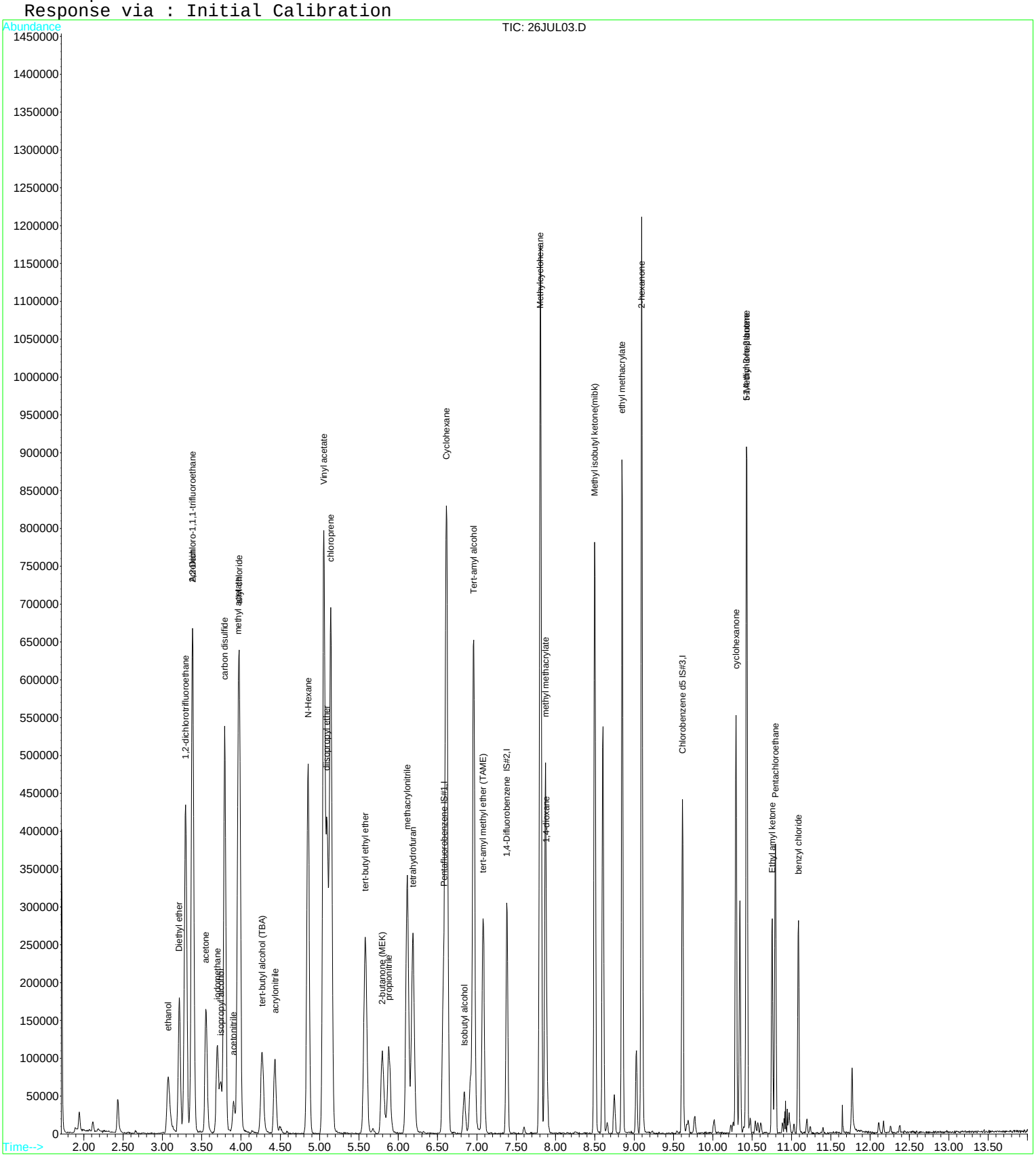
Target Compounds						Qvalue
2) ethanol	3.08	45	124538	4562.49	ug/L #	71
3) 2,2-Dichloro-1,1,1-trifluo	3.38	83	431140	30.03	ug/L #	89
4) 1,2-dichlorotrifluoroethan	3.30	67	287799	28.85	ug/L #	78
5) Diethyl ether	3.21	59	117031	30.92	ug/L	90
6) isopropyl alcohol	3.74	45	121427	965.07	ug/L #	1
7) Acrolein	3.39	56	98316	356.39	ug/L	86
8) acetone	3.55	43	229851	368.48	ug/L	98
9) tert-butyl alcohol (TBA)	4.27	59	165823	925.87	ug/L	100
10) acetonitrile	3.91	41	58887	198.23	ug/L	86
11) methyl acetate	3.96	43	565483	301.02	ug/L	91
12) allyl chloride	3.98	41	559803	36.86	ug/L	99
13) iodomethane	3.70	142	155745	17.45	ug/L	96
14) acrylonitrile	4.43	53	98314	95.59	ug/L	93
15) carbon disulfide	3.79	76	821238	35.78	ug/L	100
16) N-Hexane	4.85	57	302874	31.13	ug/L	86
17) diisopropyl ether	5.09	87	97640	17.26	ug/L	96
18) Vinyl acetate	5.05	43	1561761	176.76	ug/L	97
19) chloroprene	5.14	53	579752	36.32	ug/L	93
20) tert-butyl ethyl ether	5.58	59	329251	17.79	ug/L	99
21) 2-butanone (MEK)	5.80	43	195109	176.17	ug/L	91
22) propionitrile	5.88	54	177178	476.52	ug/L #	89
23) Isobutyl alcohol	6.84	43	44263	515.97	ug/L #	37
24) methacrylonitrile	6.11	67	177948	175.56	ug/L	97
25) Tert-amyl alcohol	6.95	59	434662	2994.25	ug/L	97
26) tetrahydrofuran	6.19	42	262715	353.43	ug/L	94
27) Cyclohexane	6.61	56	565858	28.56	ug/L #	75
28) tert-amyl methyl ether (TA	7.08	73	176685	17.35	ug/L	92
30) methyl methacrylate	7.87	69	154297	90.81	ug/L	89
31) Methylcyclohexane	7.80	55	434432	31.23	ug/L	95
32) 1,4-dioxane	7.89	88	44792	2164.83	ug/L	95
33) Methyl isobutyl ketone(mib	8.50	43	465427	182.79	ug/L	98
34) ethyl methacrylate	8.84	69	350205	90.10	ug/L	96
35) 2-hexanone	9.10	43	636395	368.96	ug/L	97
37) 5-Methyl-3-heptanone	10.43	43	178349	62.77	ug/L	86
38) cyclohexanone	10.29	55	209919	511.35	ug/L	99
39) t-1,4-dichloro-2-butene	10.43	75	65416	100.17	ug/L #	65
40) Ethyl amyl ketone	10.76	57	72283	29.44	ug/L #	74
41) Pentachloroethane	10.80	167	46523	18.75	ug/L	99
42) benzyl chloride	11.09	91	157302	37.30	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL03.D Vial: 3
Acq On : 26 Jul 2017 2:38 pm Operator: MGC
Sample : 1713164-CCV2 Inst : MS-V5
Misc : 1 VO-109-70519;70520;70521;70522;70523;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 3:54 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL33.D Vial: 33
Acq On : 27 Jul 2017 2:08 am Operator: MGC
Sample : 1713164-CCV4 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 2:22 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	163543	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	240779	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	64330	10.00	ug/L	0.00
System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.91	65	48675	10.19	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 101.90%						
31) Toluene d8 SMC#2	8.60	98	294114	9.89	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 98.90%						
49) Bromofluorobenzene SMC#3	10.34	95	99318	10.34	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 103.40%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.76	85	194977	23.96	ug/L	95
3) Chloromethane	1.95	50	290662	18.89	ug/L	98
4) Vinyl chloride	2.07	62	284964	23.25	ug/L	82
5) Bromomethane	2.44	94	55704	8.38	ug/L	93
6) Chloroethane	2.56	64	190653	22.65	ug/L	96
7) Trichlorofluoromethane	2.87	101	255658	25.38	ug/L	99
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	166836	24.13	ug/L #	86
9) 1,1-Dichloroethene	3.51	61	322962	24.47	ug/L	95
10) Methylene chloride	4.15	84	163247	23.13	ug/L	96
11) MTBE	4.48	73	231198	23.41	ug/L #	75
12) T-1,2-dichloroethene	4.50	96	195814	23.90	ug/L	93
13) 1,1-Dichloroethane	5.05	63	410893	23.48	ug/L	100
14) 2,2-Dichloropropane	5.83	77	201421	20.45	ug/L	89
15) Cis-1,2-dichloroethene	5.82	96	198277	23.22	ug/L	96
16) Bromochloromethane	6.18	128	66671	24.49	ug/L #	86
17) Chloroform	6.33	83	299162	24.16	ug/L	95
18) 1,1,1-Trichloroethane	6.53	97	269941	25.18	ug/L #	73
19) 1,1-Dichloropropene	6.71	75	265634	23.73	ug/L	95
20) Carbon tetrachloride	6.71	119	187746	25.55	ug/L	94
22) 1,2-Dichloroethane	7.00	62	172048	25.86	ug/L #	88
23) Benzene	6.94	78	788718	23.55	ug/L #	8
25) Trichloroethene	7.60	130	227905	27.56	ug/L	87
26) 1,2-Dichloropropane	7.83	63	220107	24.09	ug/L	95
27) Dibromomethane	7.90	93	58564	25.40	ug/L	92
28) Bromodichloromethane	8.05	83	180599	26.05	ug/L	91
29) 2-ceve	8.27	63	210810	89.35	ug/L #	76
30) Cis-1,3-dichloropropene	8.40	75	213608	24.68	ug/L	95
32) Toluene	8.65	92	537982	25.79	ug/L	93
33) Trans-1,3-dichloropropene	8.82	75	145057	25.68	ug/L #	86
34) 1,1,2-Trichloroethane	8.96	97	93157	24.86	ug/L	85
35) Tetrachloroethene (PCE)	9.03	166	216193	27.29	ug/L	94
36) 1,3-Dichloropropane	9.08	76	153859	25.27	ug/L	91
37) Dibromochloromethane	9.23	129	101026	27.89	ug/L #	96
38) 1,2-Dibromoethane	9.32	107	76389	24.52	ug/L	94
40) Chlorobenzene	9.64	112	522174	24.48	ug/L	90
41) 1,1,1,2-Tetrachloroethane	9.69	131	141987	27.05	ug/L	99
42) Ethylbenzene	9.69	106	315247	25.15	ug/L	83
43) P+m-Xylene	9.77	106	783811	51.12	ug/L	100
44) O-Xylene	10.01	106	363962	25.69	ug/L	91
45) Styrene	10.02	104	556521	25.77	ug/L	93
46) Bromoform	10.15	173	41406	26.22	ug/L #	100
47) Isopropylbenzene	10.22	105	953056	25.99	ug/L	98
48) 1,1,2,2-Tetrachloroethane	10.40	83	83066	23.75	ug/L	95
50) 1,2,3-Trichloropropane	10.45	110	20675	27.80	ug/L #	21
51) n-propylbenzene	10.47	91	1169561	24.56	ug/L	93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL33.D Vial: 33
Acq On : 27 Jul 2017 2:08 am Operator: MGC
Sample : 1713164-CCV4 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 2:22 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

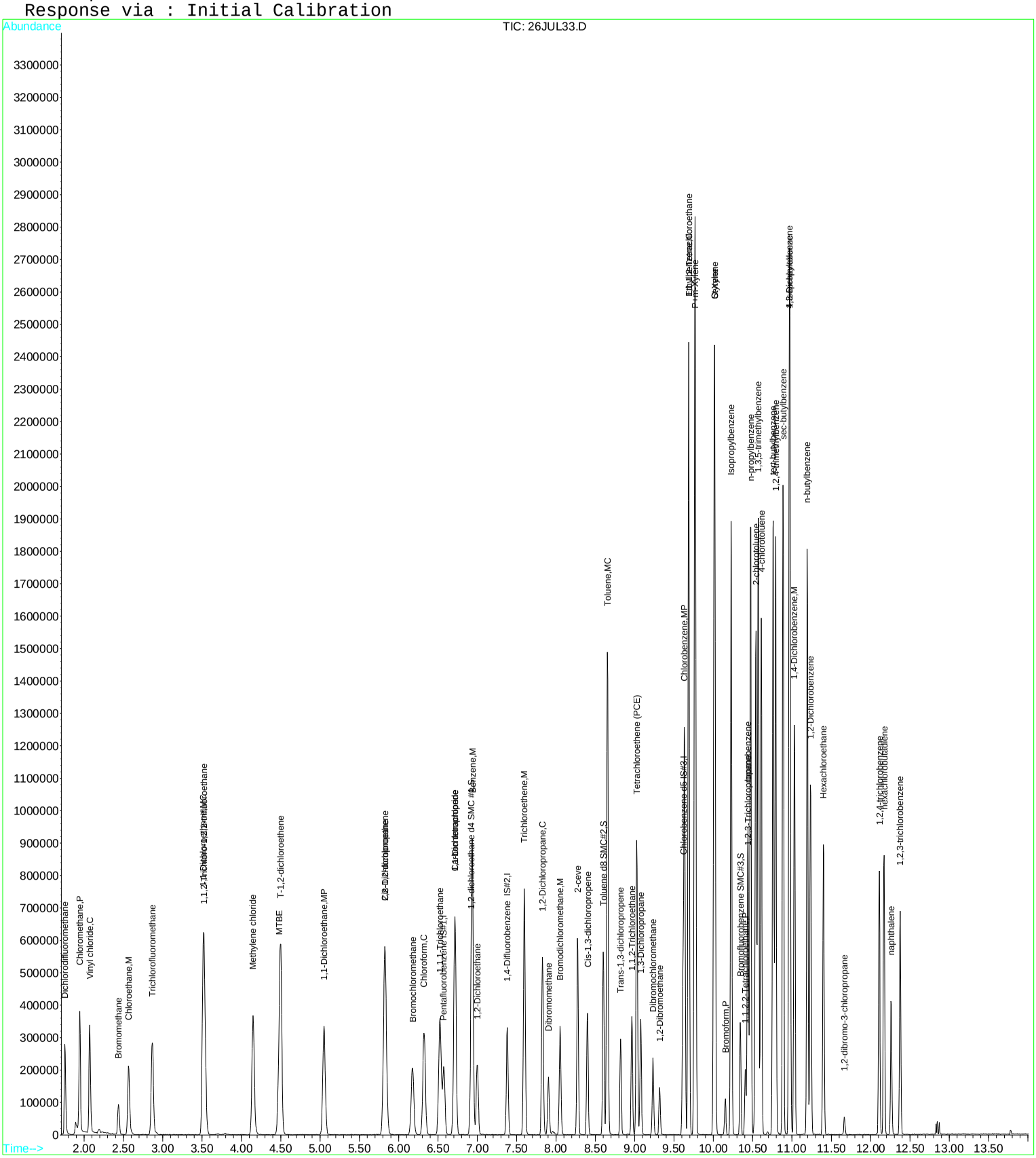
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	194717	25.92	ug/L		93
53)	1,3,5-trimethylbenzene	10.57	105	812647	26.78	ug/L		94
54)	2-chlorotoluene	10.54	91	789232	26.23	ug/L		97
55)	4-chlorotoluene	10.61	91	713083	26.24	ug/L		98
56)	tert-butylbenzene	10.76	119	837179	27.92	ug/L		89
57)	1,2,4-trimethylbenzene	10.79	105	773931	25.75	ug/L		96
58)	sec-butylbenzene	10.89	105	1066461	26.25	ug/L		99
59)	4-isopropyltoluene	10.97	119	865785	26.14	ug/L		97
60)	1,3-Dichlorobenzene	10.97	146	423622	26.34	ug/L		94
61)	1,4-Dichlorobenzene	11.03	146	420644	26.76	ug/L		94
62)	n-butylbenzene	11.19	91	766435	24.83	ug/L		98
63)	1,2-Dichlorobenzene	11.24	146	371818	26.80	ug/L		97
64)	Hexachloroethane	11.40	117	115101	20.90	ug/L	#	71
65)	1,2-dibromo-3-chloropropan	11.67	75	11230	23.82	ug/L		98
66)	1,2,4-trichlorobenzene	12.11	180	203794	25.36	ug/L		98
67)	hexachlorobutadiene	12.17	225	145620	26.18	ug/L	#	87
68)	naphthalene	12.26	128	253247	25.09	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	174674	25.90	ug/L	#	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL33.D Vial: 33
Acq On : 27 Jul 2017 2:08 am Operator: MGC
Sample : 1713164-CCV4 Inst : MS-V5
Misc : 1 VO-109-70505;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 2:22 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL34.D Vial: 34
Acq On : 27 Jul 2017 2:31 am Operator: MGC
Sample : 1713164-CCV5 Inst : MS-V5
Misc : 1 VO-109-70519;70520;70521;70522;70523;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:31 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	164750	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	244705	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.61	119	66484	10.00	ug/L		0.00

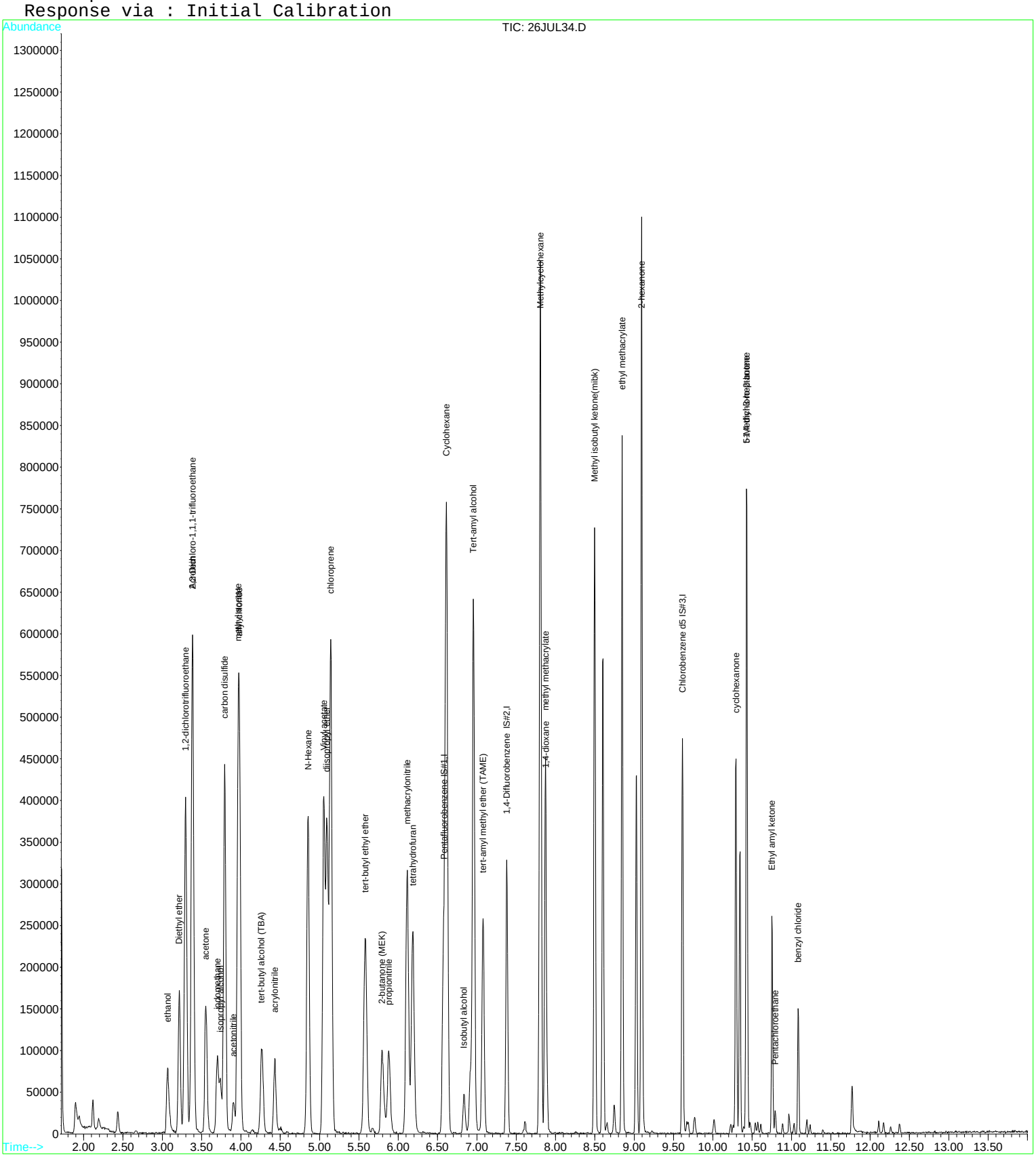
Target Compounds							Qvalue
2) ethanol	3.07	45	111732	3761.18	ug/L	#	74
3) 2,2-Dichloro-1,1,1-trifluo	3.38	83	388250	24.85	ug/L	#	89
4) 1,2-dichlorotrifluoroethan	3.30	67	257390	23.71	ug/L	#	76
5) Diethyl ether	3.21	59	108114	26.24	ug/L		90
6) isopropyl alcohol	3.74	45	104747	764.95	ug/L	#	72
7) Acrolein	3.38	56	82026	273.21	ug/L		87
8) acetone	3.55	43	220870	325.35	ug/L		99
9) tert-butyl alcohol (TBA)	4.26	59	151015	774.76	ug/L		100
10) acetonitrile	3.90	41	52475	162.31	ug/L		95
11) methyl acetate	3.96	43	538733	263.50	ug/L		91
12) allyl chloride	3.98	41	460877	27.89	ug/L		97
13) iodomethane	3.70	142	124003	12.77	ug/L		99
14) acrylonitrile	4.43	53	84944	75.89	ug/L		93
15) carbon disulfide	3.79	76	687496	27.52	ug/L		100
16) N-Hexane	4.85	57	243585	23.00	ug/L		87
17) diisopropyl ether	5.09	87	86993	14.13	ug/L		100
18) Vinyl acetate	5.05	43	872573	90.75	ug/L		100
19) chloroprene	5.14	53	507627	29.22	ug/L		96
20) tert-butyl ethyl ether	5.59	59	299872	14.88	ug/L		98
21) 2-butanone (MEK)	5.79	43	179100	148.59	ug/L		88
22) propionitrile	5.88	54	150332	371.51	ug/L	#	89
23) Isobutyl alcohol	6.84	43	38357	410.84	ug/L	#	37
24) methacrylonitrile	6.11	67	162481	147.29	ug/L		95
25) Tert-amyl alcohol	6.95	59	407750	2580.93	ug/L		97
26) tetrahydrofuran	6.18	42	243480	300.98	ug/L		94
27) Cyclohexane	6.61	56	510953	23.70	ug/L	#	75
28) tert-amyl methyl ether (TA	7.08	73	162912	14.70	ug/L		90
30) methyl methacrylate	7.87	69	139928	76.59	ug/L		86
31) Methylcyclohexane	7.81	55	384226	25.69	ug/L		95
32) 1,4-dioxane	7.88	88	39000	1752.95	ug/L		100
33) Methyl isobutyl ketone(mib	8.50	43	428489	156.51	ug/L		98
34) ethyl methacrylate	8.85	69	320998	76.80	ug/L		95
35) 2-hexanone	9.10	43	580847	313.18	ug/L		96
37) 5-Methyl-3-heptanone	10.43	43	166797	54.77	ug/L		87
38) cyclohexanone	10.29	55	172979	393.12	ug/L		97
39) t-1,4-dichloro-2-butene	10.42	75	40032	57.19	ug/L	#	69
40) Ethyl amyl ketone	10.75	57	65758	24.99	ug/L	#	77
41) Pentachloroethane	10.80	167	1357	0.51	ug/L		94
42) benzyl chloride	11.08	91	83482	19.84	ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL34.D Vial: 34
Acq On : 27 Jul 2017 2:31 am Operator: MGC
Sample : 1713164-CCV5 Inst : MS-V5
Misc : 1 VO-109-70519;70520;70521;70522;70523;2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:31 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Raw Data - CCB

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL31.D Vial: 31
Acq On : 25 Jul 2017 5:10 pm Operator: MGC
Sample : 1713088-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:26 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	188077	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	290748	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	77709	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	51436	9.36	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 93.60%			
31) Toluene d8 SMC#2	8.60	98	349218	9.73	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.30%			
49) Bromofluorobenzene SMC#3	10.34	95	112112	9.66	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.60%			

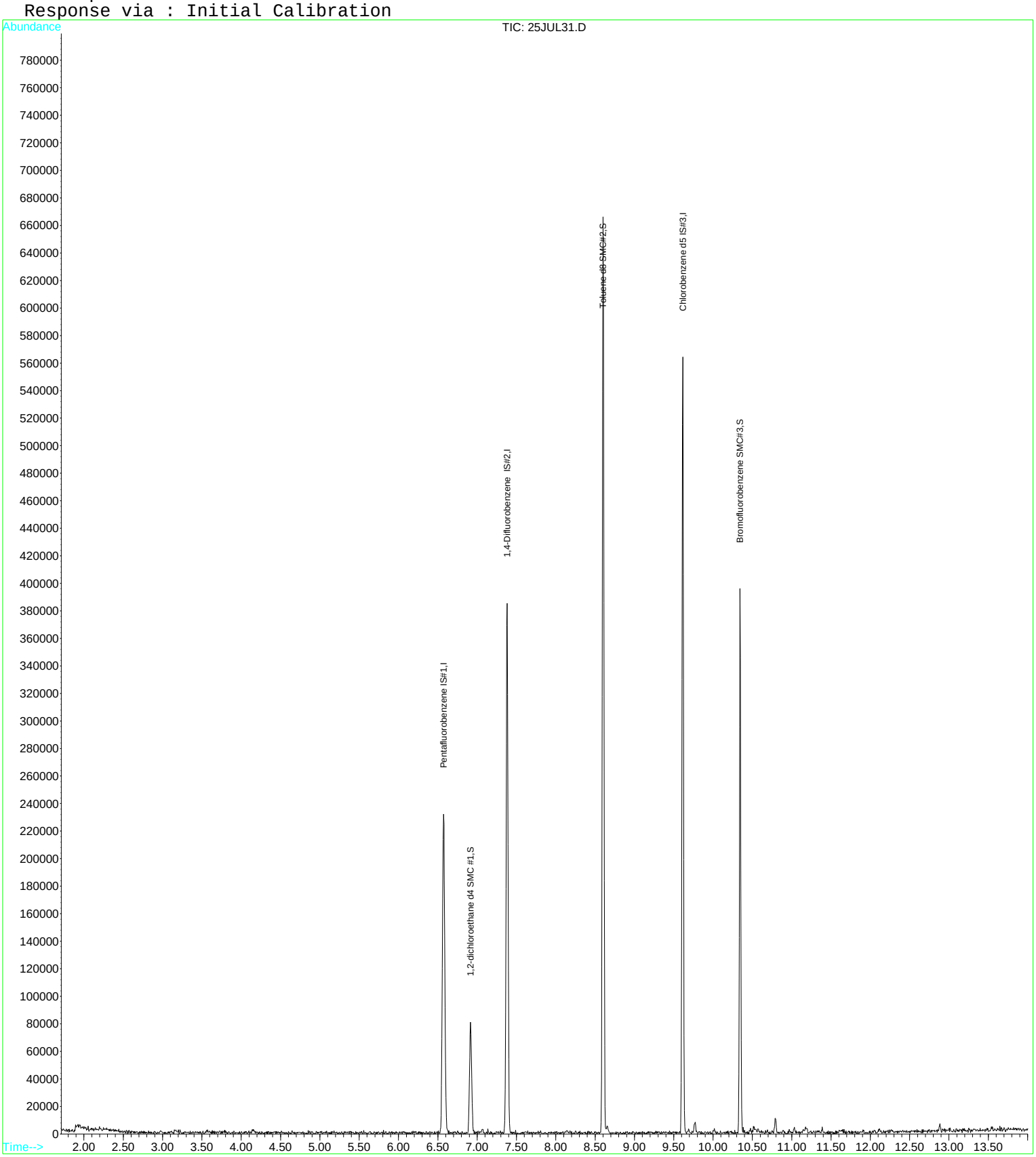
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL31.D Vial: 31
Acq On : 25 Jul 2017 5:10 pm Operator: MGC
Sample : 1713088-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:26 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL31.D Vial: 31
Acq On : 25 Jul 2017 5:10 pm Operator: MGC
Sample : 1713088-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:26 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	188077	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	290748	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	77709	10.00	ug/L	0.00

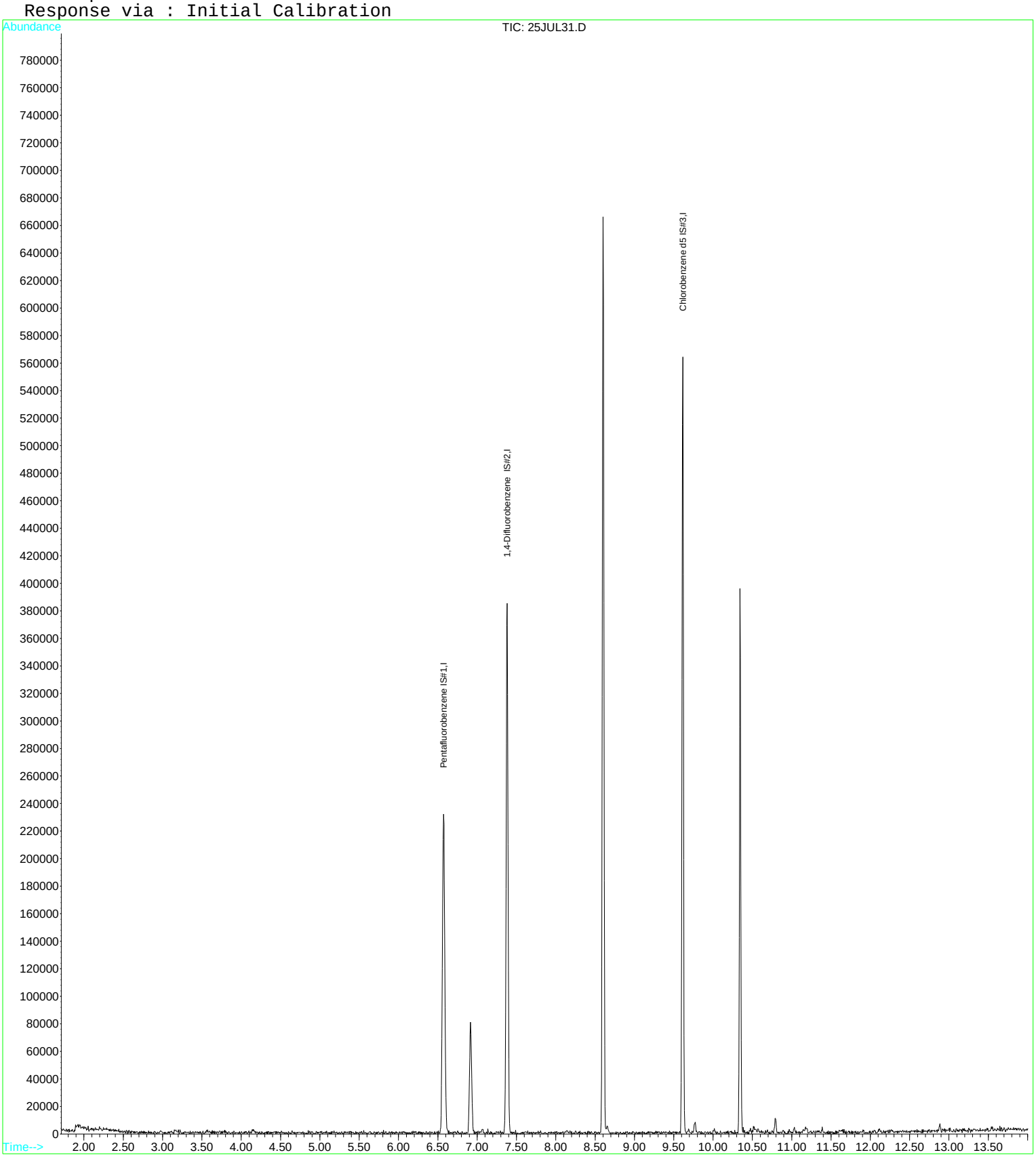
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL31.D Vial: 31
Acq On : 25 Jul 2017 5:10 pm Operator: MGC
Sample : 1713088-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:26 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL31.D Vial: 31
Acq On : 25 Jul 2017 5:10 pm Operator: MGC
Sample : 1713088-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:27 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	188077	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	499062m	4.14	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.92	TIC	157373m	2.24	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	646033m	5.01	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	921793m	7.72	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	709433m	8.25	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	468520m	8.70	ug/L	0.00

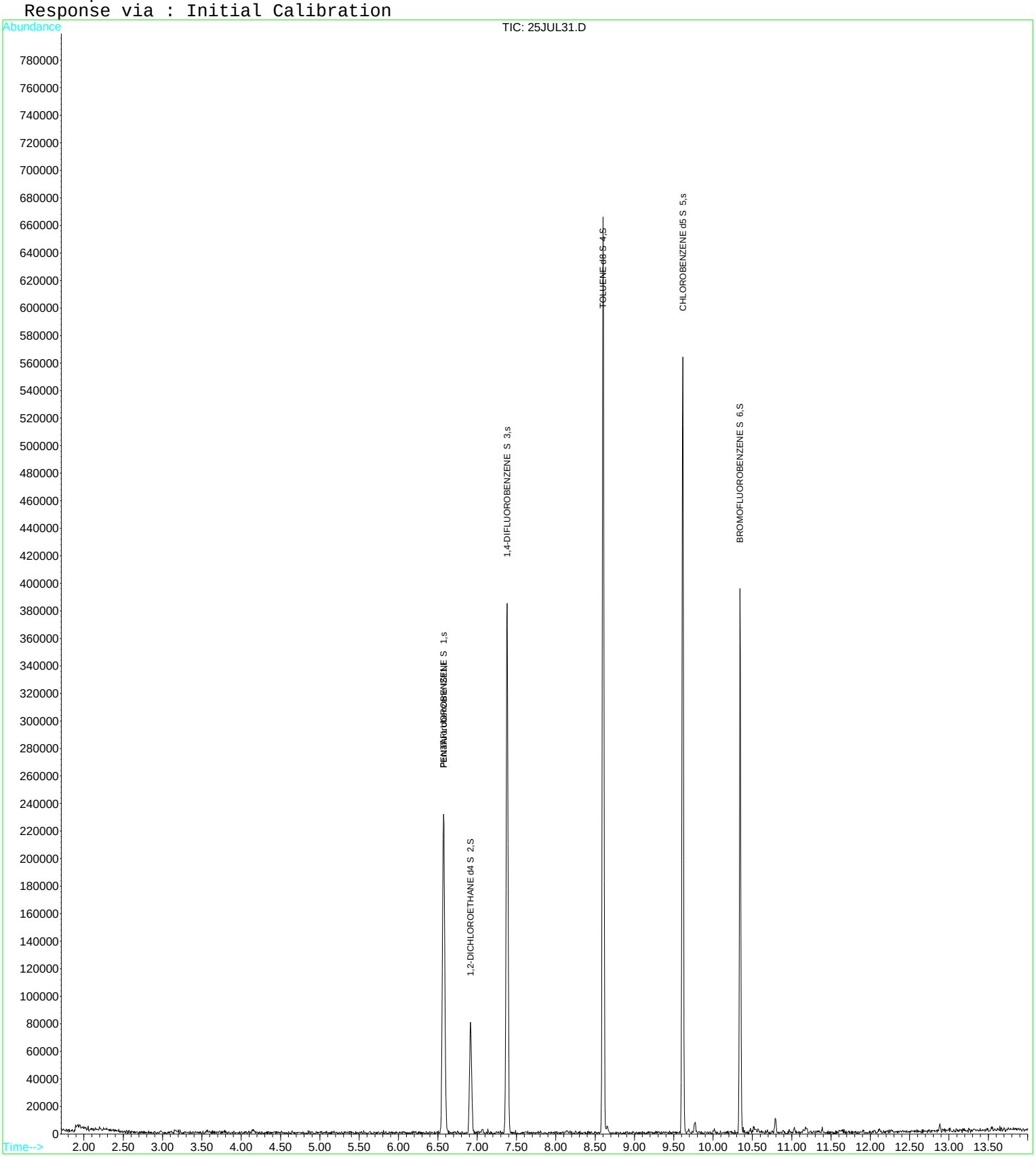
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL31.D Vial: 31
Acq On : 25 Jul 2017 5:10 pm Operator: MGC
Sample : 1713088-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:27 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\18-0046\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL61.D Vial: 61
Acq On : 26 Jul 2017 4:40 am Operator: MGC
Sample : 1713088-CCB3 Inst : MS-V5
Misc : 1 CCB3;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:05 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	180486	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	269242	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	70101	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	49185	9.33	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 93.30%			
31) Toluene d8 SMC#2	8.60	98	328446	9.88	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.80%			
49) Bromofluorobenzene SMC#3	10.35	95	101726	9.72	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.20%			

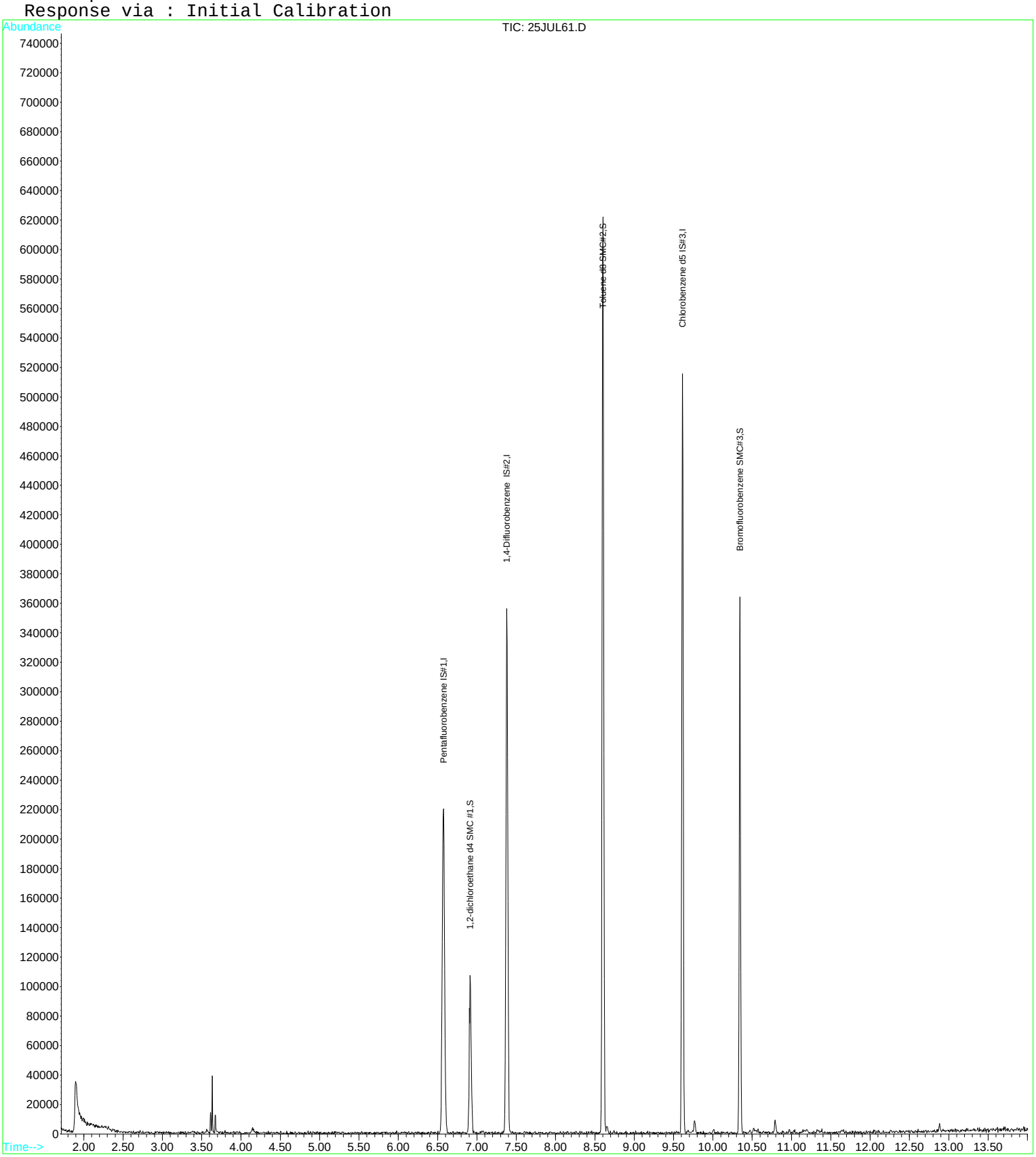
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL61.D Vial: 61
Acq On : 26 Jul 2017 4:40 am Operator: MGC
Sample : 1713088-CCB3 Inst : MS-V5
Misc : 1 CCB3;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:05 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL61.D Vial: 61
Acq On : 26 Jul 2017 4:40 am Operator: MGC
Sample : 1713088-CCB3 Inst : MS-V5
Misc : 1 CCB3;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:05 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	180486	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	269242	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	70101	10.00	ug/L	0.00

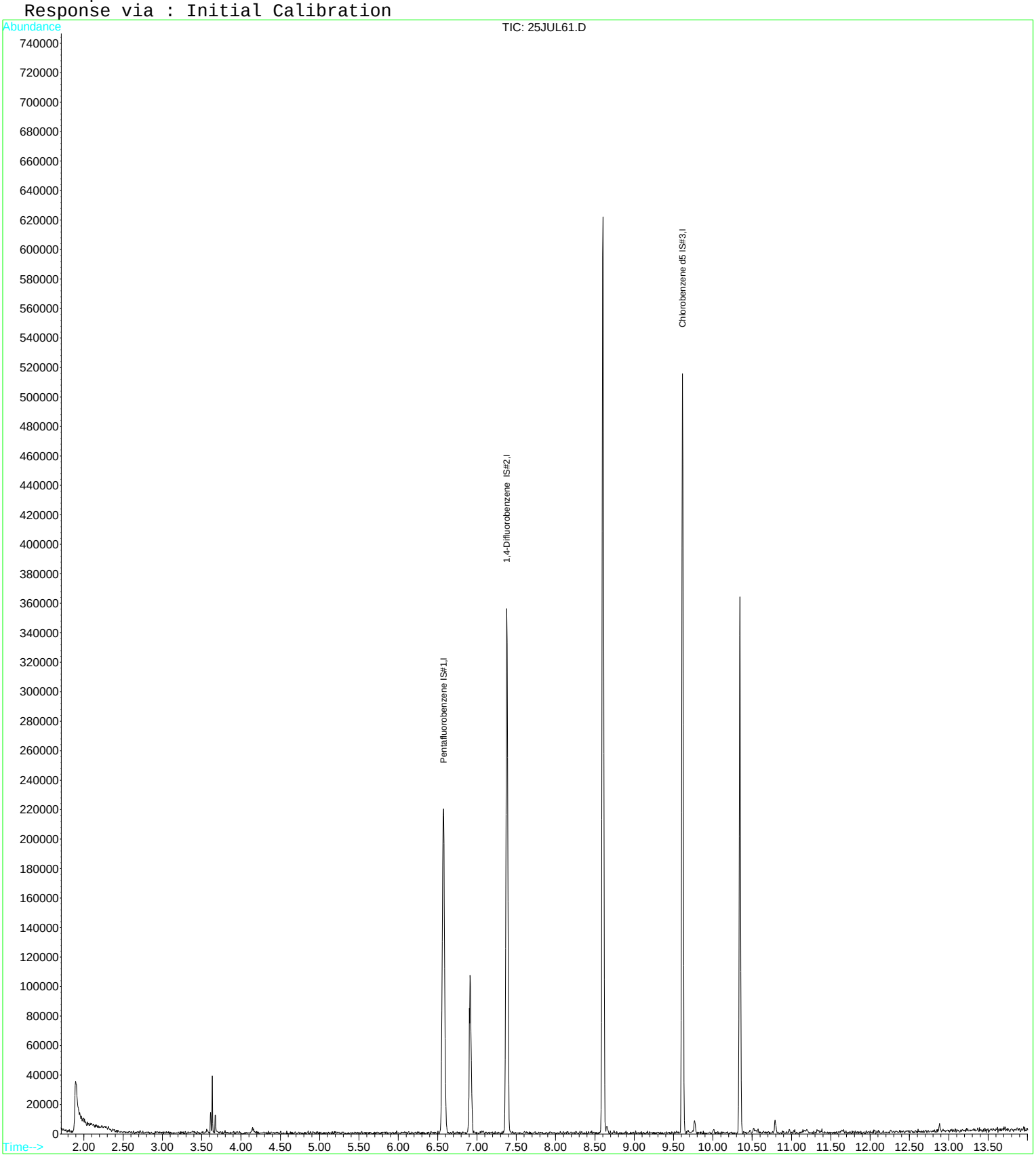
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL61.D Vial: 61
Acq On : 26 Jul 2017 4:40 am Operator: MGC
Sample : 1713088-CCB3 Inst : MS-V5
Misc : 1 CCB3;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:05 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL61.D Vial: 61
Acq On : 26 Jul 2017 4:40 am Operator: MGC
Sample : 1713088-CCB3 Inst : MS-V5
Misc : 1 CCB3;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:06 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	180486	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	466872m	4.04	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.91	TIC	185571m	2.75	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	605116m	4.89	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	880014m	7.68	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.61	TIC	656724m	7.96	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.35	TIC	432456m	8.37	ug/L	0.00

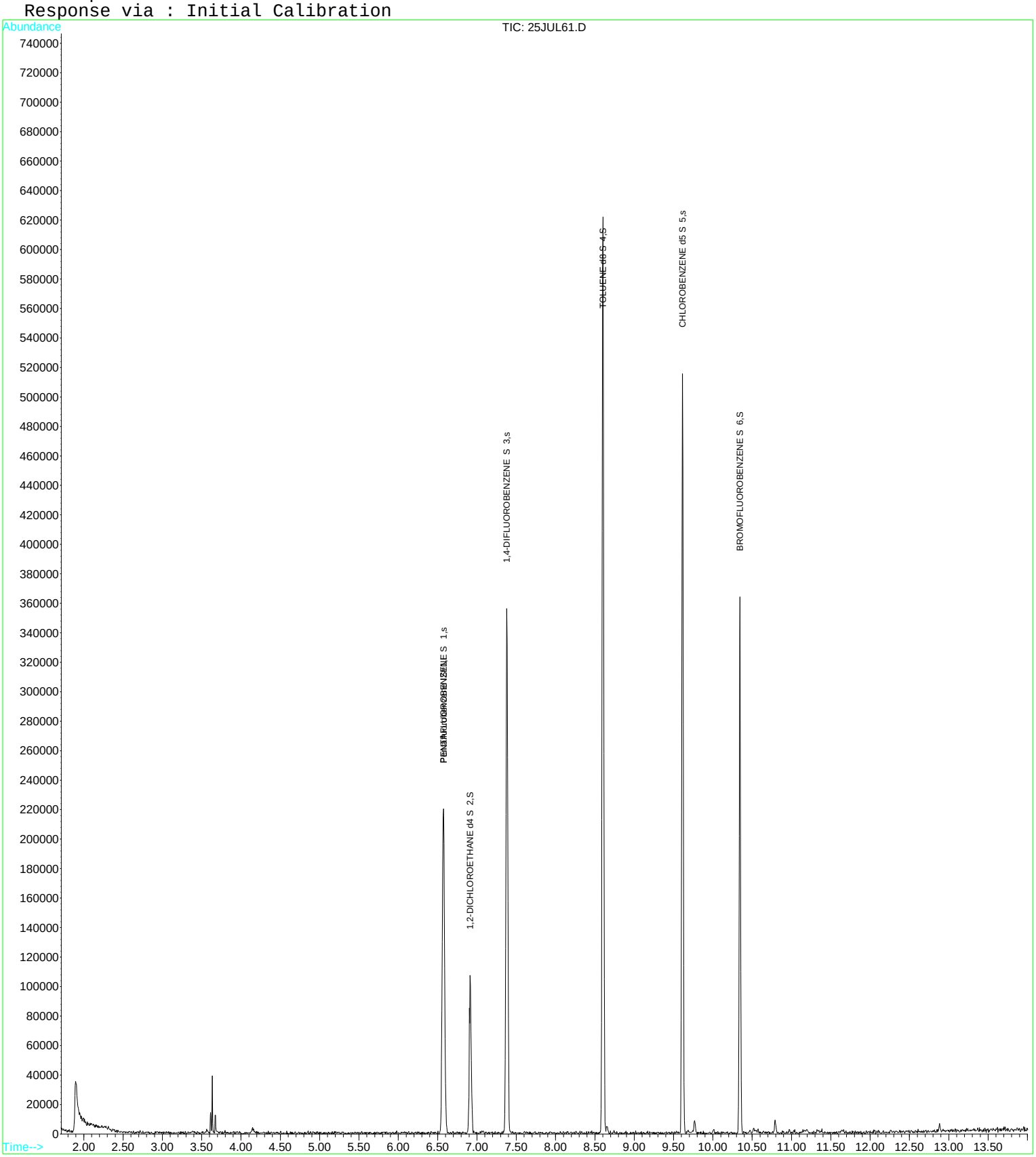
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL61.D Vial: 61
Acq On : 26 Jul 2017 4:40 am Operator: MGC
Sample : 1713088-CCB3 Inst : MS-V5
Misc : 1 CCB3;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:06 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\18-0046\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL05.D Vial: 5
Acq On : 26 Jul 2017 3:24 pm Operator: MGC
Sample : 1713164-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 3:59 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	179088	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	268187	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	70946	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	51539	9.85	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 98.50%			
31) Toluene d8 SMC#2	8.60	98	332011	10.03	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.30%			
49) Bromofluorobenzene SMC#3	10.34	95	103504	9.77	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.70%			

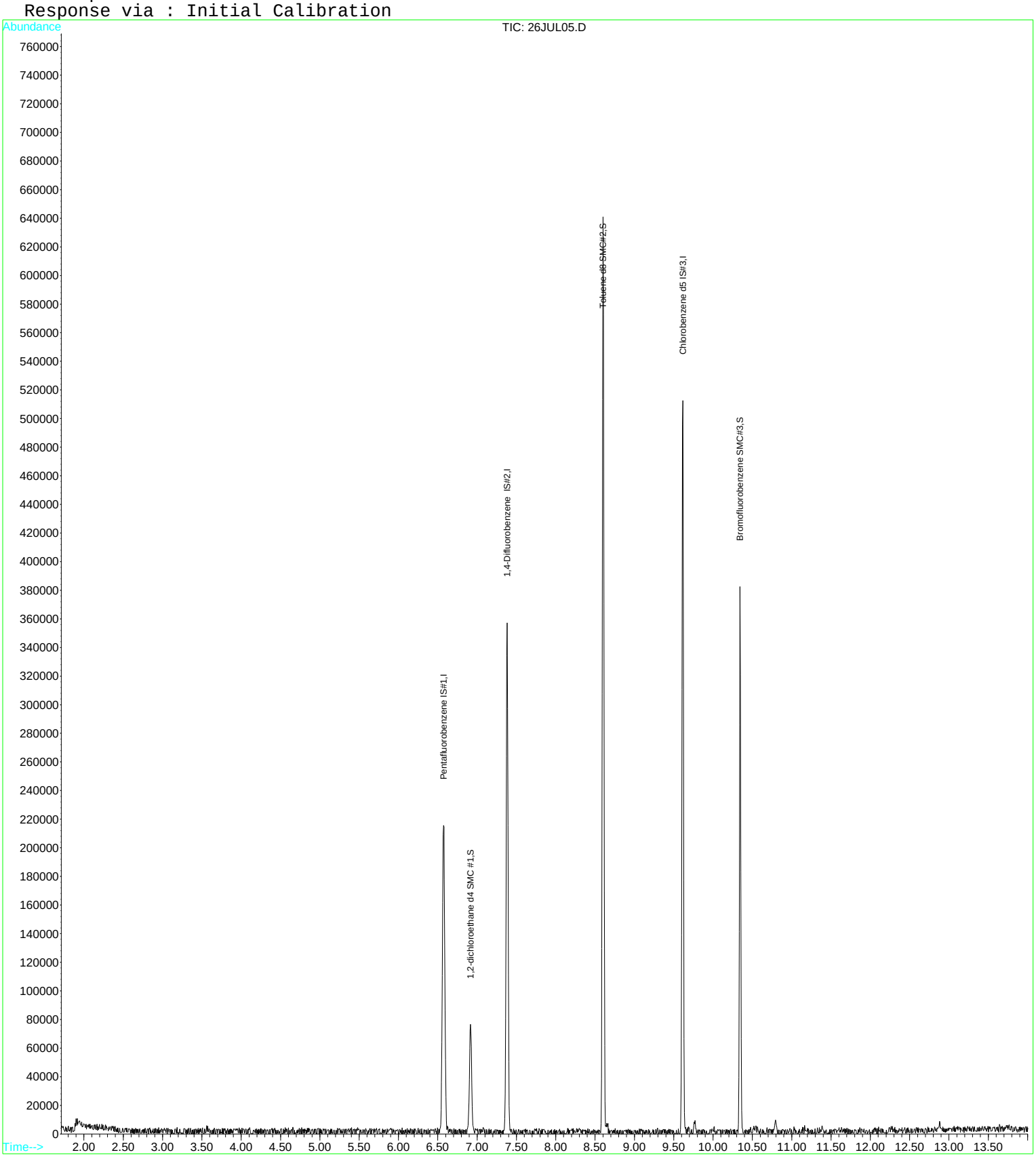
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL05.D Vial: 5
Acq On : 26 Jul 2017 3:24 pm Operator: MGC
Sample : 1713164-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 3:59 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL05.D Vial: 5
Acq On : 26 Jul 2017 3:24 pm Operator: MGC
Sample : 1713164-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 3:59 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	179088	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	268187	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	70946	10.00	ug/L	0.00

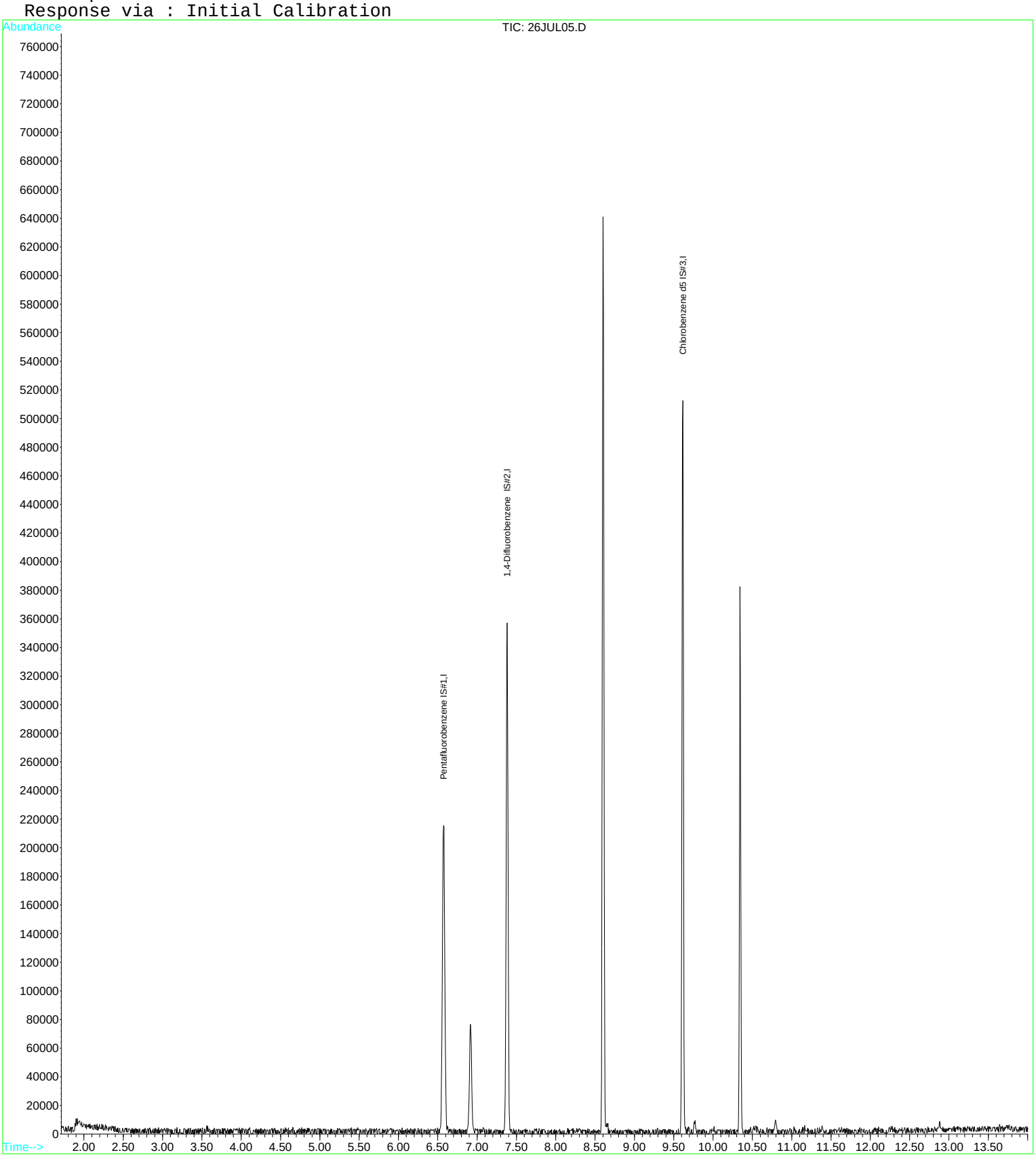
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL05.D Vial: 5
Acq On : 26 Jul 2017 3:24 pm Operator: MGC
Sample : 1713164-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 3:59 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL05.D Vial: 5
Acq On : 26 Jul 2017 3:24 pm Operator: MGC
Sample : 1713164-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 4:00 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	179088	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	480194m	4.19	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.92	TIC	163218m	2.44	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	608555m	4.96	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	891987m	7.85	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	665962m	8.13	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	453444m	8.85	ug/L	0.00

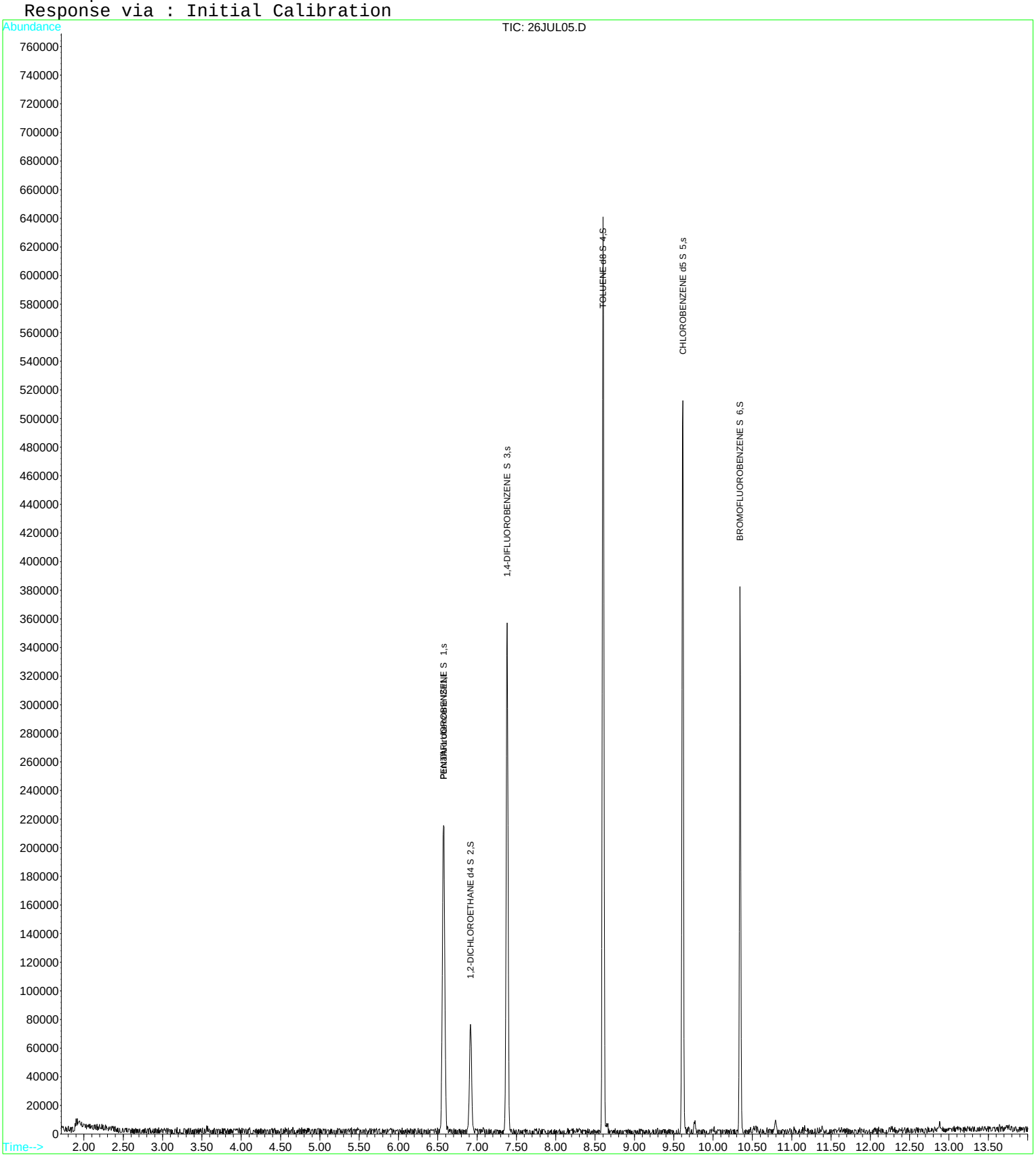
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL05.D Vial: 5
Acq On : 26 Jul 2017 3:24 pm Operator: MGC
Sample : 1713164-CCB1 Inst : MS-V5
Misc : 1 CCB1;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 4:00 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\18-0046\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL36.D Vial: 36
Acq On : 27 Jul 2017 3:17 am Operator: MGC
Sample : 1713164-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:32 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	174793	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	264674	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	70784	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	49195	9.64	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 96.40%			
31) Toluene d8 SMC#2	8.60	98	317834	9.72	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.20%			
49) Bromofluorobenzene SMC#3	10.34	95	99243	9.39	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.90%			

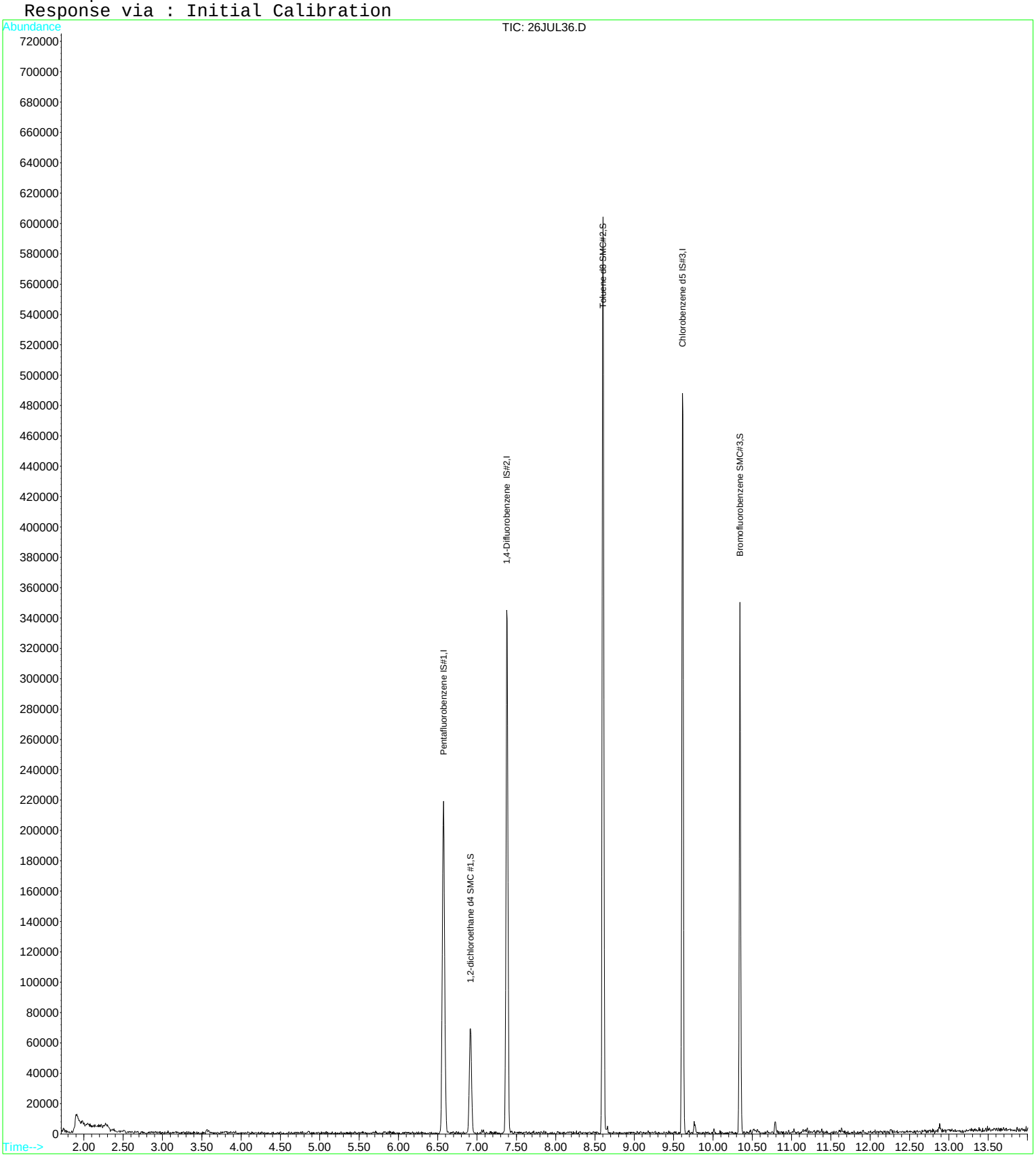
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL36.D Vial: 36
Acq On : 27 Jul 2017 3:17 am Operator: MGC
Sample : 1713164-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:32 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL36.D Vial: 36
Acq On : 27 Jul 2017 3:17 am Operator: MGC
Sample : 1713164-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:32 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	174793	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	264674	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	70784	10.00	ug/L	0.00

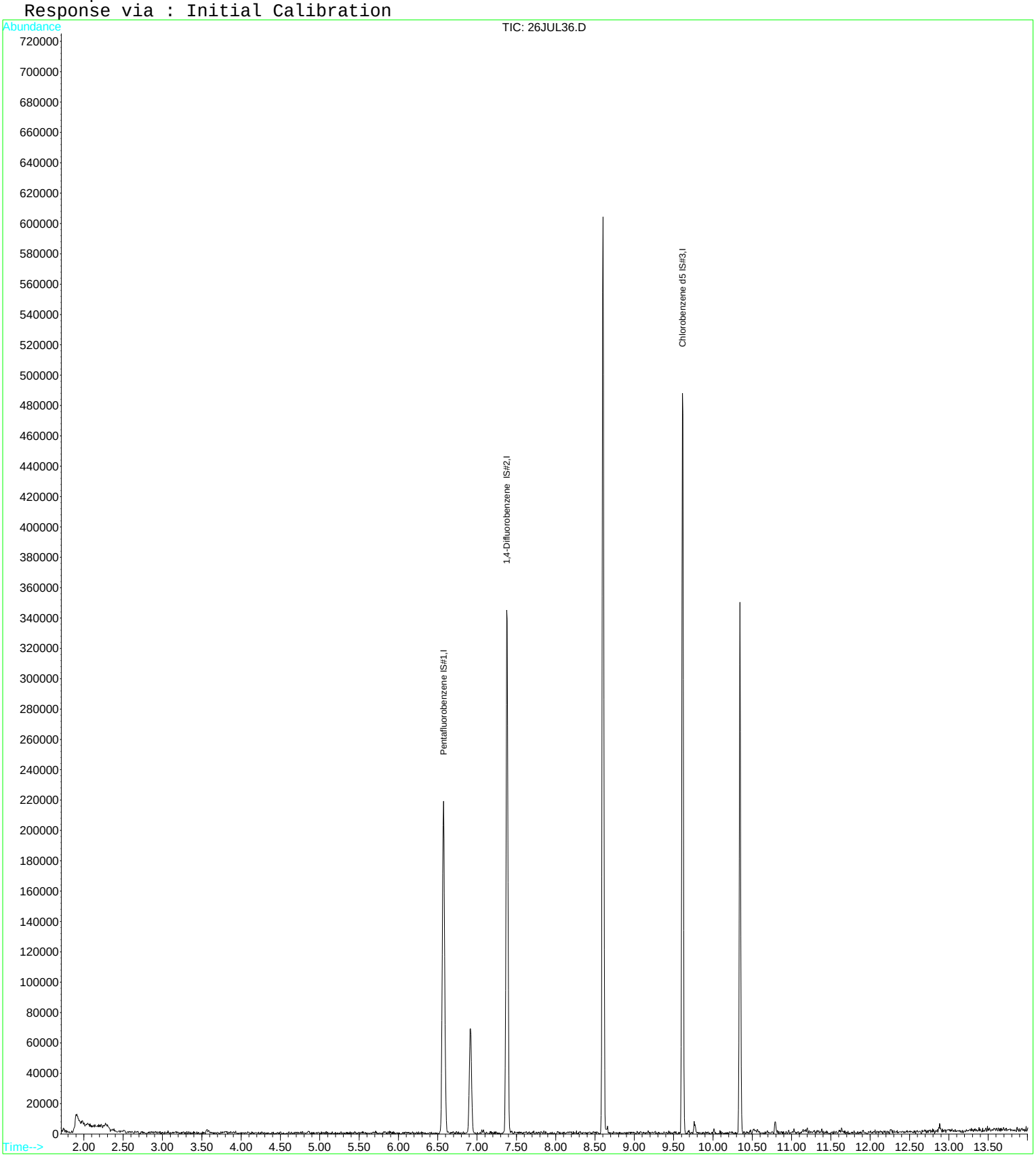
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL36.D Vial: 36
Acq On : 27 Jul 2017 3:17 am Operator: MGC
Sample : 1713164-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:32 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL36.D Vial: 36
Acq On : 27 Jul 2017 3:17 am Operator: MGC
Sample : 1713164-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:33 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	174793	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	457466m	4.09	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.92	TIC	143136m	2.19	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	586772m	4.90	ug/L	-0.01
5) TOLUENE d8 S 4	8.60	TIC	841683m	7.59	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.61	TIC	635657m	7.95	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	424507m	8.48	ug/L	0.00

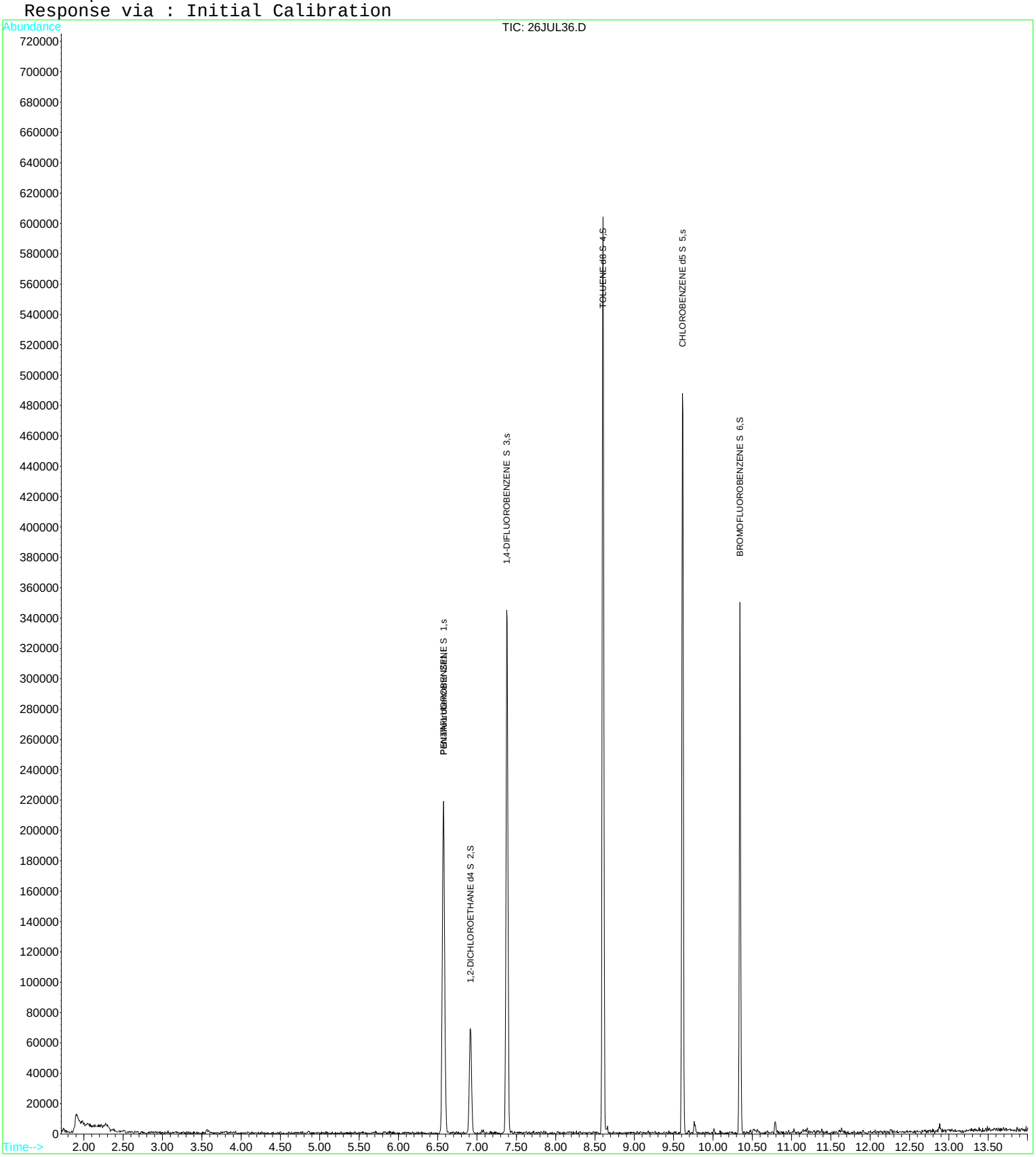
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL36.D Vial: 36
Acq On : 27 Jul 2017 3:17 am Operator: MGC
Sample : 1713164-CCB2 Inst : MS-V5
Misc : 1 CCB2;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:33 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\18-0046\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration



Raw Data - Tune

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL02.D Vial: 2
Acq On : 20 Jul 2017 8:09 am Operator: MGC
Sample : 1712752-TUN1 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 14:23 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	52073	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	84177	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	24018	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	15808	10.14	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 101.40%			
31) Toluene d8 SMC#2	8.60	98	102649	9.85	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.50%			
49) Bromofluorobenzene SMC#3	10.34	95	29842	8.39	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 83.90%			

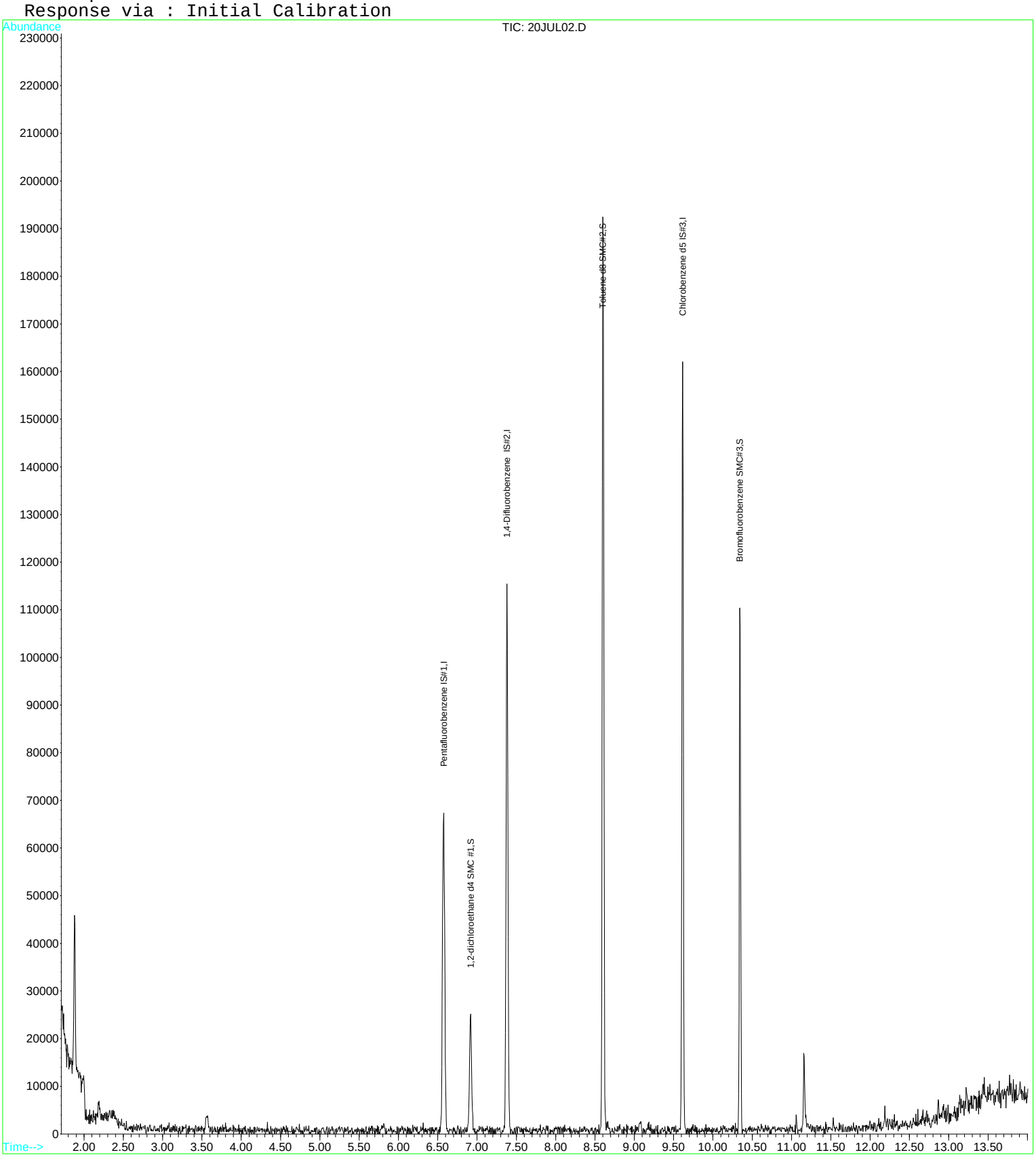
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL20\20JUL02.D Vial: 2
Acq On : 20 Jul 2017 8:09 am Operator: MGC
Sample : 1712752-TUN1 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 20 14:23 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL49.D Vial: 49
Acq On : 17 Jul 2017 11:37 pm Operator: MGC
Sample : 1712538-TUN1 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:07 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	46206	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	85071	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	22393	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	17323	12.52	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 125.20%#			
31) Toluene d8 SMC#2	8.60	98	103755	9.86	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.60%			
49) Bromofluorobenzene SMC#3	10.35	95	31164	9.40	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.00%			

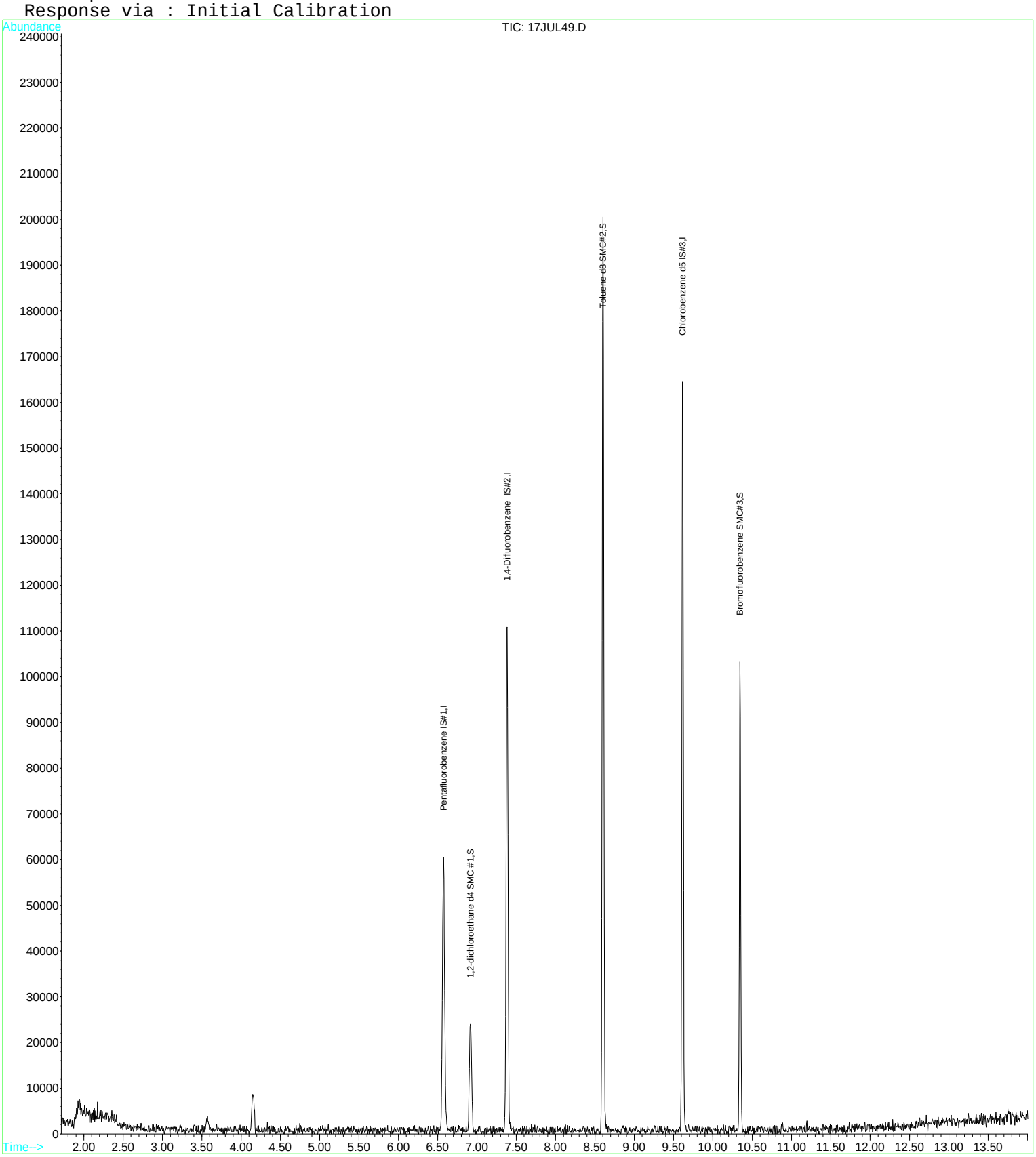
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL17\17JUL49.D Vial: 49
Acq On : 17 Jul 2017 11:37 pm Operator: MGC
Sample : 1712538-TUN1 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 18 7:07 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\11-0727\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Wed Jul 12 08:31:09 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL27.D Vial: 27
Acq On : 25 Jul 2017 3:38 pm Operator: MGC
Sample : 1713088-TUN2 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:18 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	44846	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	78200	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	19220	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	13880	10.60	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 106.00%			
31) Toluene d8 SMC#2	8.60	98	93201	9.65	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.50%			
49) Bromofluorobenzene SMC#3	10.34	95	28698	10.00	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.00%			

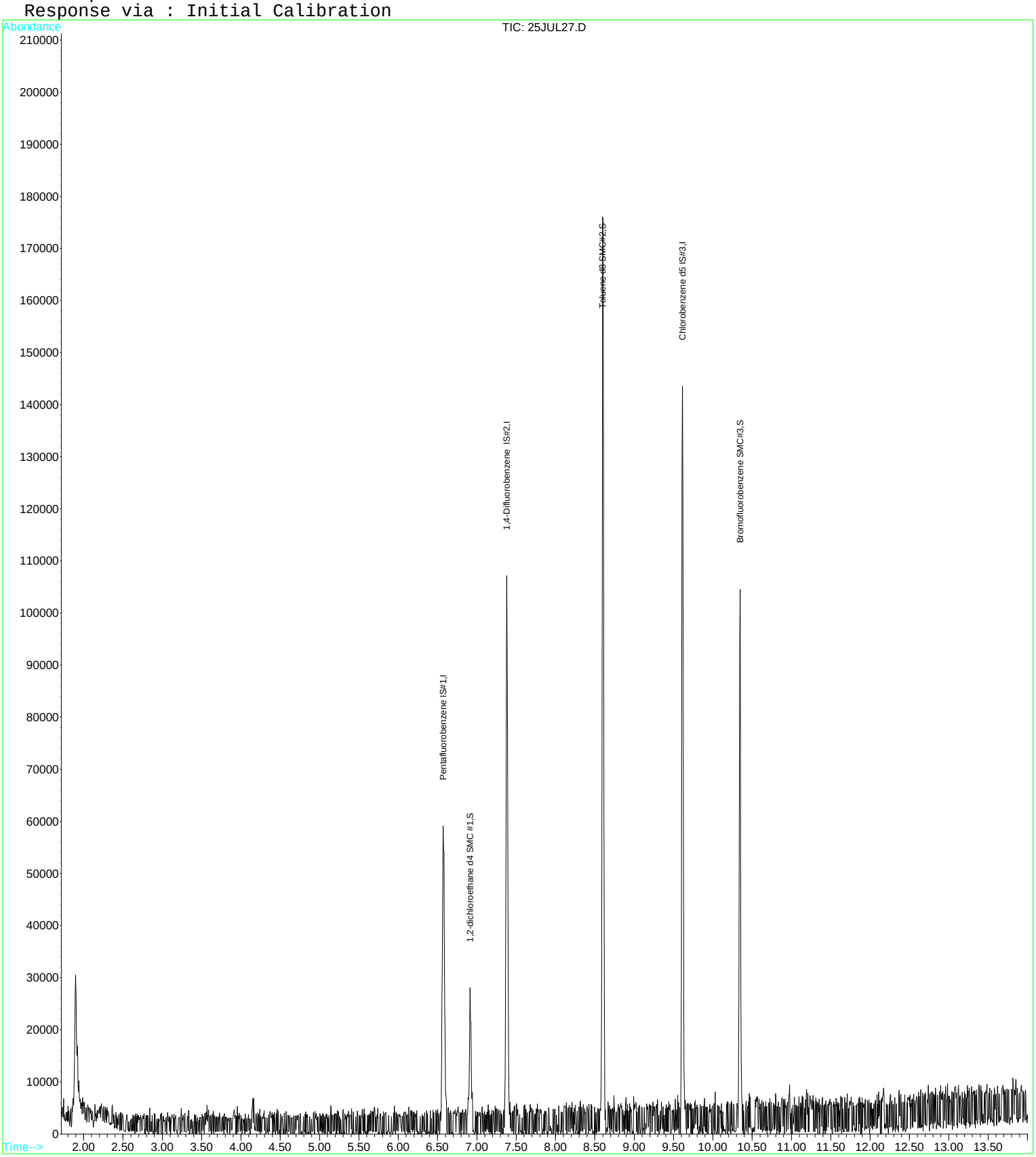
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL27.D Vial: 27
Acq On : 25 Jul 2017 3:38 pm Operator: MGC
Sample : 1713088-TUN2 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:18 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL57.D Vial: 57
Acq On : 26 Jul 2017 3:08 am Operator: MGC
Sample : 1713088-TUN3 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:01 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	40933	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	72499	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	19328	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	14306	11.97	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 119.70%			
31) Toluene d8 SMC#2	8.61	98	86336	9.64	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.40%			
49) Bromofluorobenzene SMC#3	10.34	95	26521	9.19	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 91.90%			

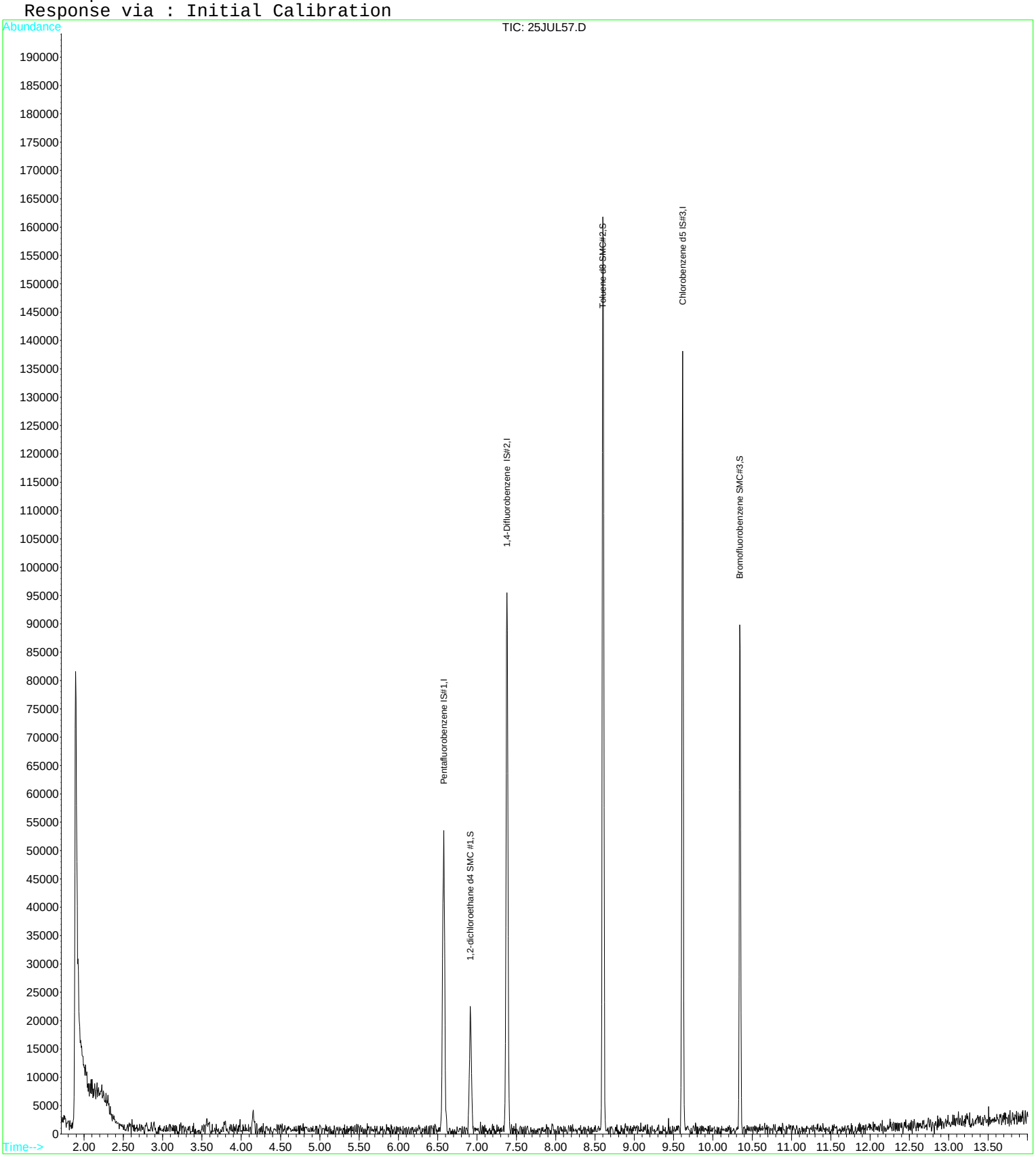
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL57.D Vial: 57
Acq On : 26 Jul 2017 3:08 am Operator: MGC
Sample : 1713088-TUN3 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:01 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL01.D Vial: 1
Acq On : 26 Jul 2017 1:52 pm Operator: MGC
Sample : 1713164-TUN1 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 14:07 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	43969	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	77376	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	21259	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.91	65	16038	12.49	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 124.90%			
31) Toluene d8 SMC#2	8.60	98	94651	9.91	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.10%			
49) Bromofluorobenzene SMC#3	10.35	95	28922	9.11	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 91.10%			

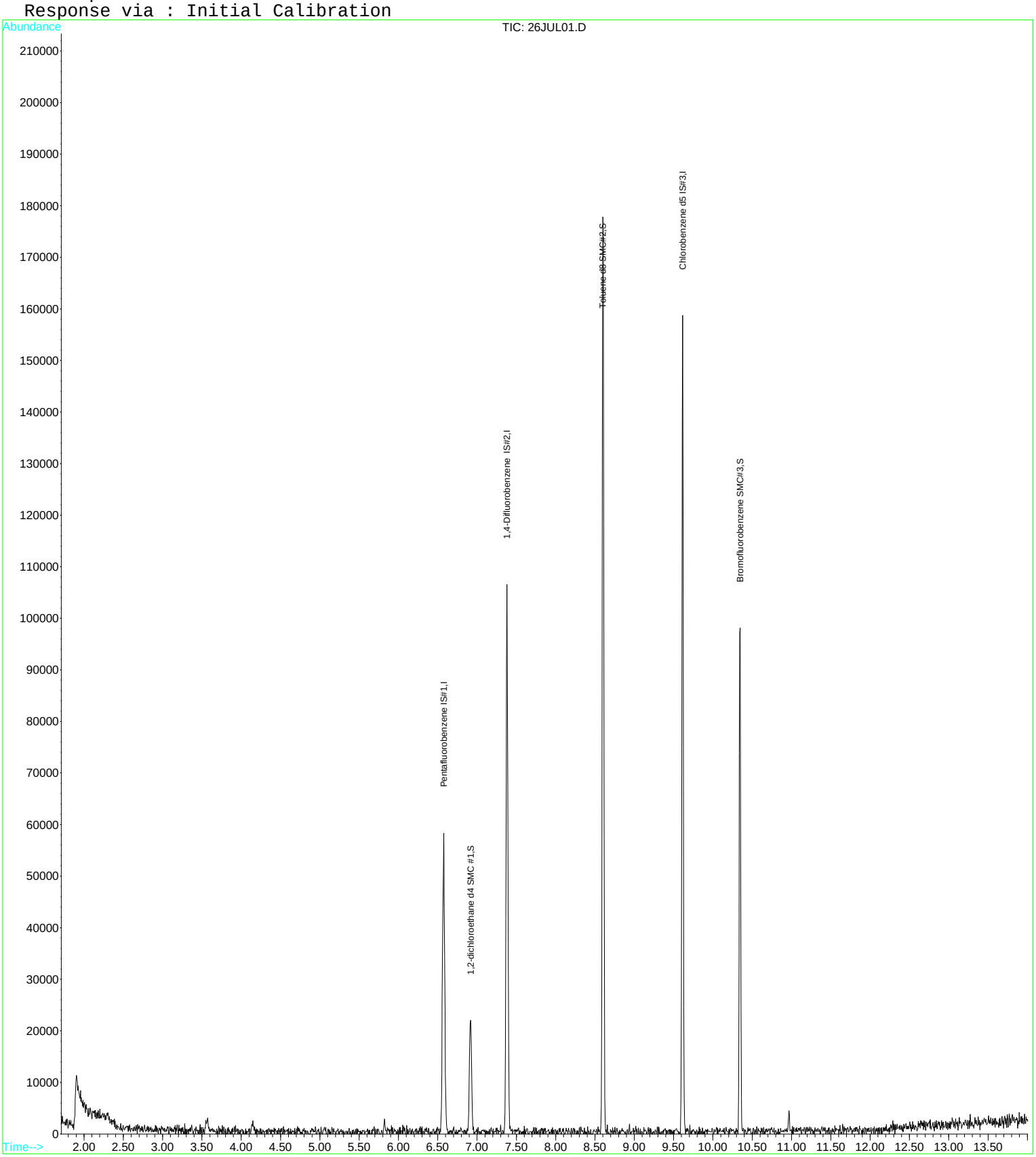
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL01.D Vial: 1
Acq On : 26 Jul 2017 1:52 pm Operator: MGC
Sample : 1713164-TUN1 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 14:07 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL32.D Vial: 32
Acq On : 27 Jul 2017 1:45 am Operator: MGC
Sample : 1713164-TUN2 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:28 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	35288	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	63037	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	17287	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	13986	13.57	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 135.70%#			
31) Toluene d8 SMC#2	8.60	98	77174	9.91	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.10%			
49) Bromofluorobenzene SMC#3	10.34	95	23824	9.23	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 92.30%			

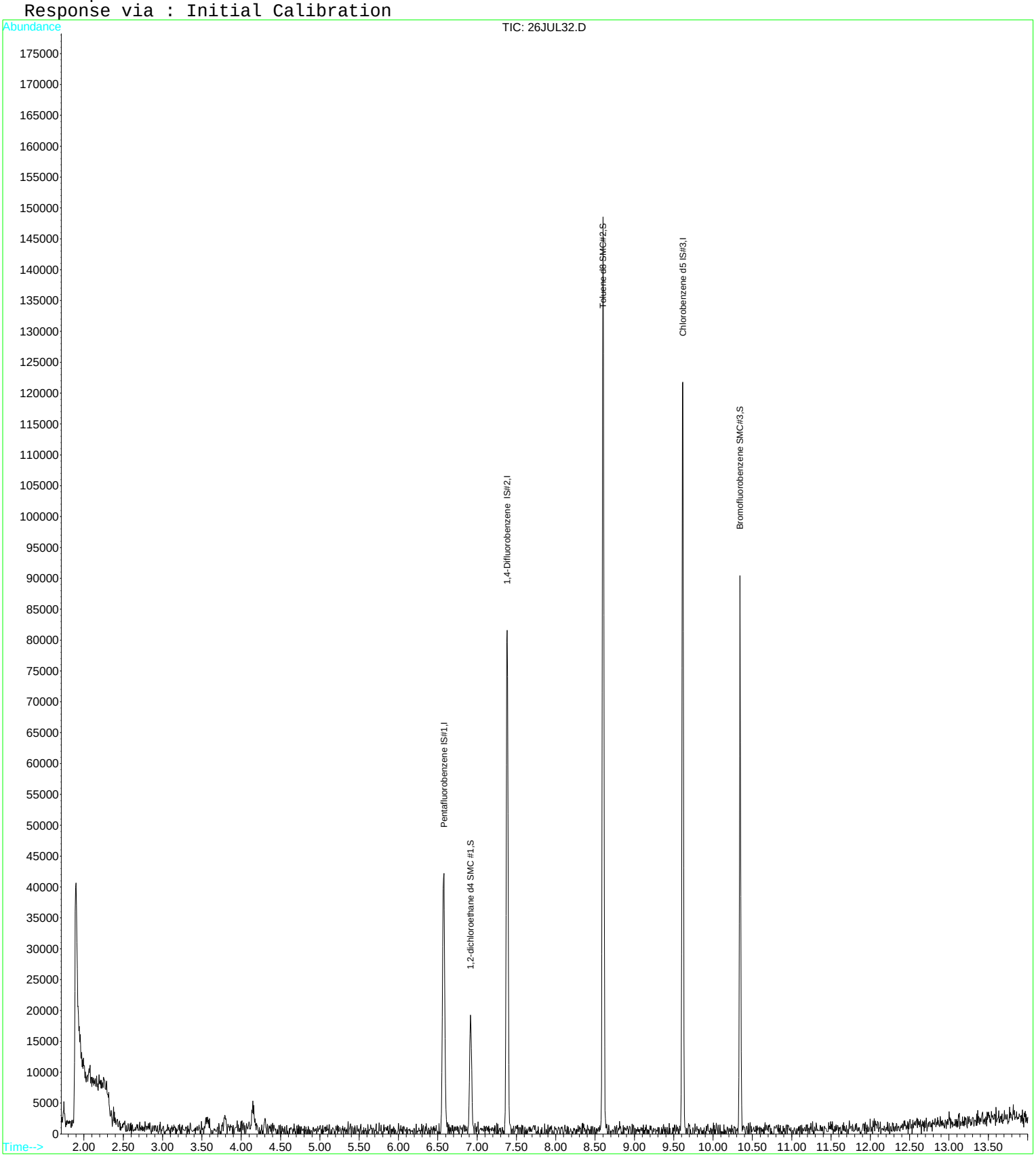
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL26\26JUL32.D Vial: 32
Acq On : 27 Jul 2017 1:45 am Operator: MGC
Sample : 1713164-TUN2 Inst : MS-V5
Misc : 1 VO-108-70267;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 27 5:28 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Raw Data - Method Blank

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL62.D Vial: 62
Acq On : 26 Jul 2017 5:03 am Operator: MGC
Sample : B[G2094-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5710;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:06 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	179365	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	262221	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.62	119	69556	10.00	ug/L	0.00

System Monitoring Compounds

21) 1,2-dichloroethane d4 SMC	6.92	65	52031	9.93	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 99.30%			
31) Toluene d8 SMC#2	8.60	98	323546	9.99	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.90%			
49) Bromofluorobenzene SMC#3	10.34	95	104755	10.09	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 100.90%			

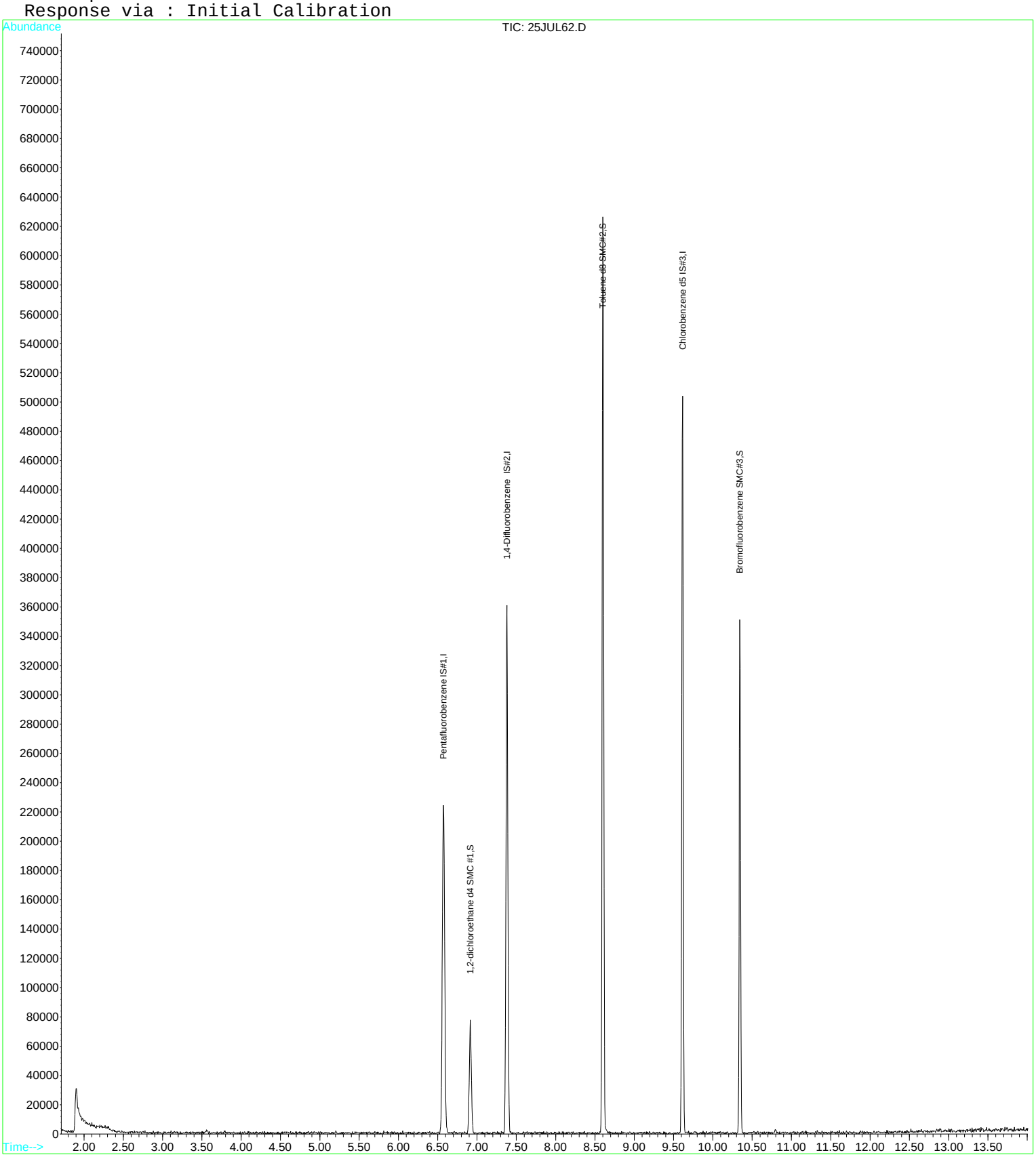
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL62.D Vial: 62
Acq On : 26 Jul 2017 5:03 am Operator: MGC
Sample : B[G2094-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5710;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:06 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL62.D Vial: 62
Acq On : 26 Jul 2017 5:03 am Operator: MGC
Sample : B[G2094-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5710;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:06 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	179365	10.00 ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	262221	10.00 ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	69556	10.00 ug/L	0.00

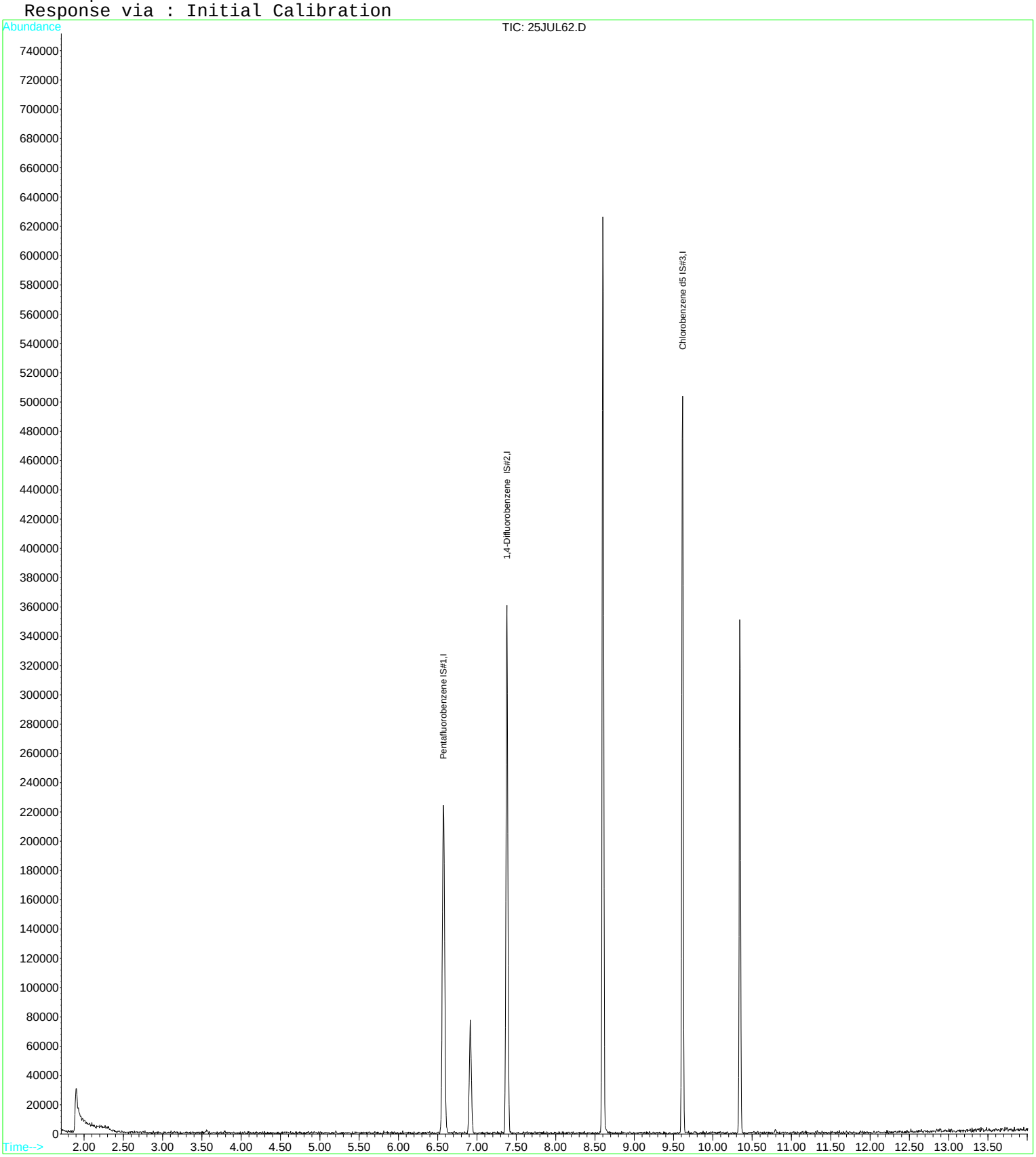
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL62.D Vial: 62
Acq On : 26 Jul 2017 5:03 am Operator: MGC
Sample : B[G2094-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5710;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:06 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL62.D Vial: 62
Acq On : 26 Jul 2017 5:03 am Operator: MGC
Sample : B[G2094-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5710;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:07 2017 Quant Results File: TPPH5.RES

Quant Method : C:\HPCHEM\1...\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	179365	10.00	ug/L	0.00
System Monitoring Compounds						
2) PENTAFLUOROBENZENE S 1	6.57	TIC	469172m	4.08	ug/L	0.00
3) 1,2-DICHLOROETHANE d4 S 2	6.92	TIC	144194m	2.15	ug/L	0.00
4) 1,4-DIFLUOROBENZENE S 3	7.38	TIC	593565m	4.83	ug/L	0.00
5) TOLUENE d8 S 4	8.60	TIC	857188m	7.53	ug/L	0.00
6) CHLOROBENZENE d5 S 5	9.62	TIC	647995m	7.90	ug/L	0.00
7) BROMOFLUOROBENZENE S 6	10.34	TIC	432573m	8.43	ug/L	0.00

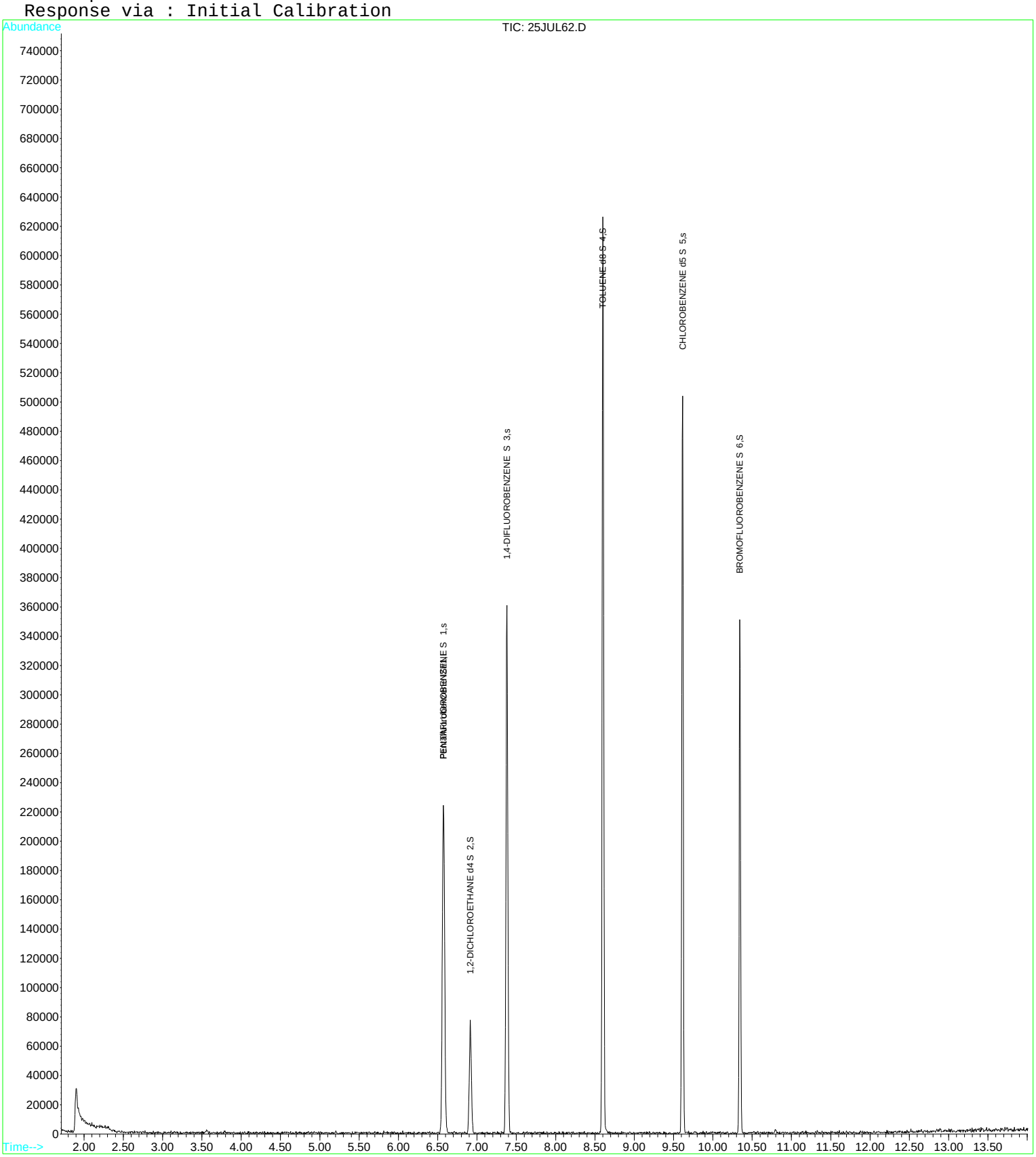
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL62.D Vial: 62
Acq On : 26 Jul 2017 5:03 am Operator: MGC
Sample : B[G2094-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-15-5710;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:07 2017 Quant Results File: TPPH5.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\18-0046\TPPH5.M (RTE Integrator)
Title : EPA Method TPPH Gasoline
Last Update : Tue Jul 18 07:29:07 2017
Response via : Initial Calibration



Raw Data - Matrix Spike

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL65.D Vial: 65
Acq On : 26 Jul 2017 6:12 am Operator: MGC
Sample : B[G2094-MS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:26 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	184936	10.00	ug/L	0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	283319	10.00	ug/L	0.00
39) Chlorobenzene d5 IS#3	9.61	119	75766	10.00	ug/L	0.00

System Monitoring Compounds						
21) 1,2-dichloroethane d4 SMC	6.91	65	52365	9.69	ug/L	0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 96.90%						
31) Toluene d8 SMC#2	8.60	98	342047	9.78	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 97.80%						
49) Bromofluorobenzene SMC#3	10.34	95	108226	9.57	ug/L	0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 95.70%						

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.76	85	220394	23.95	ug/L	96
3) Chloromethane	1.94	50	326048	18.74	ug/L	99
4) Vinyl chloride	2.07	62	336001	24.24	ug/L #	67
5) Bromomethane	2.44	94	141380	18.81	ug/L	92
6) Chloroethane	2.56	64	216221	22.72	ug/L	97
7) Trichlorofluoromethane	2.87	101	275600	24.20	ug/L	96
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	196927	25.18	ug/L #	85
9) 1,1-Dichloroethene	3.51	61	380597	25.50	ug/L	96
10) Methylene chloride	4.15	84	176271	22.09	ug/L	96
11) MTBE	4.48	73	259817	23.27	ug/L #	78
12) T-1,2-dichloroethene	4.50	96	230460	24.88	ug/L	93
13) 1,1-Dichloroethane	5.05	63	470863	23.79	ug/L	100
14) 2,2-Dichloropropane	5.83	77	292311	26.25	ug/L	88
15) Cis-1,2-dichloroethene	5.82	96	235292	24.36	ug/L	95
16) Bromochloromethane	6.17	128	70651	22.95	ug/L #	84
17) Chloroform	6.33	83	323776	23.12	ug/L	93
18) 1,1,1-Trichloroethane	6.52	97	304930	25.16	ug/L #	74
19) 1,1-Dichloropropene	6.71	75	291777	23.05	ug/L	94
20) Carbon tetrachloride	6.71	119	213748	25.72	ug/L	94
22) 1,2-Dichloroethane	7.00	62	173250	23.03	ug/L #	86
23) Benzene	6.94	78	887461	23.43	ug/L #	7
25) Trichloroethene	7.60	130	238319	24.50	ug/L	88
26) 1,2-Dichloropropane	7.83	63	239418	22.27	ug/L	95
27) Dibromomethane	7.90	93	64377	23.73	ug/L	94
28) Bromodichloromethane	8.05	83	192246	23.57	ug/L	92
30) Cis-1,3-dichloropropene	8.40	75	247317	24.29	ug/L	96
32) Toluene	8.65	92	595593	24.27	ug/L	91
33) Trans-1,3-dichloropropene	8.82	75	164428	24.74	ug/L #	82
34) 1,1,2-Trichloroethane	8.96	97	101986	23.13	ug/L	85
35) Tetrachloroethene (PCE)	9.03	166	241438	25.90	ug/L	94
36) 1,3-Dichloropropane	9.08	76	160392	22.39	ug/L	90
37) Dibromochloromethane	9.24	129	105098	24.66	ug/L #	96
38) 1,2-Dibromoethane	9.32	107	85260	23.26	ug/L	91
40) Chlorobenzene	9.64	112	548725	21.84	ug/L	89
41) 1,1,1,2-Tetrachloroethane	9.69	131	157030	25.40	ug/L	95
42) Ethylbenzene	9.69	106	359582	24.36	ug/L	80
43) P+m-Xylene	9.77	106	861618	47.71	ug/L	99
44) O-Xylene	10.01	106	402057	24.09	ug/L	90
45) Styrene	10.02	104	621838	24.45	ug/L	92
46) Bromoform	10.15	173	46979	25.26	ug/L #	100
47) Isopropylbenzene	10.22	105	1057021	24.47	ug/L	98
48) 1,1,2,2-Tetrachloroethane	10.41	83	94833	23.02	ug/L	95
50) 1,2,3-Trichloropropane	10.45	110	21957	25.07	ug/L #	14
51) n-propylbenzene	10.48	91	1283322	22.88	ug/L	92
52) bromobenzene	10.44	156	217057	24.53	ug/L	86

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL65.D Vial: 65
Acq On : 26 Jul 2017 6:12 am Operator: MGC
Sample : B[G2094-MS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:26 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

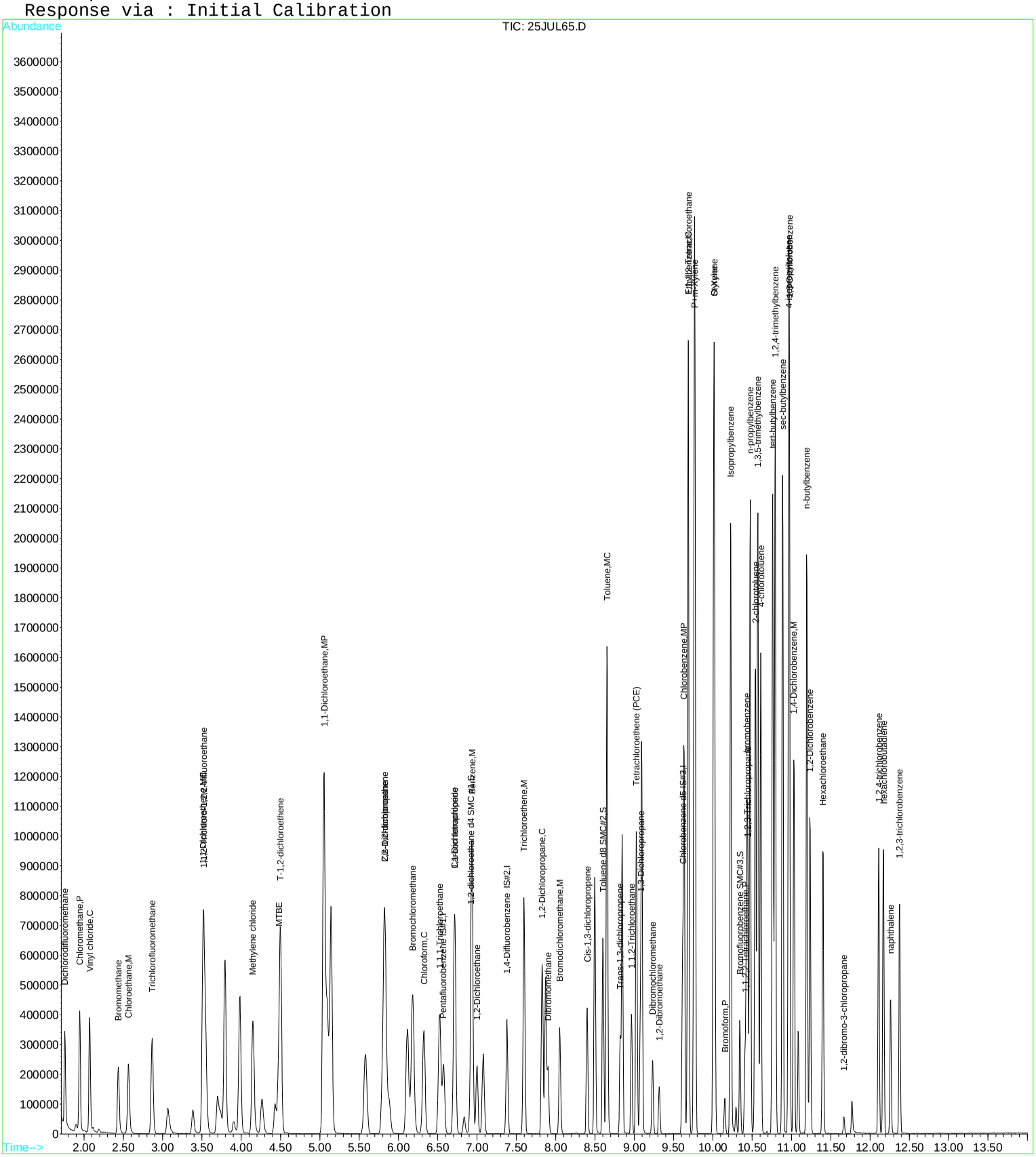
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	1,3,5-trimethylbenzene	10.57	105	893992	25.01	ug/L		94
54)	2-chlorotoluene	10.54	91	813245	22.95	ug/L		97
55)	4-chlorotoluene	10.61	91	723827	22.62	ug/L		98
56)	tert-butylbenzene	10.76	119	850530	24.09	ug/L		97
57)	1,2,4-trimethylbenzene	10.79	105	852511	24.08	ug/L		93
58)	sec-butylbenzene	10.89	105	1194883	24.98	ug/L		99
59)	4-isopropyltoluene	10.97	119	968243	24.82	ug/L		97
60)	1,3-Dichlorobenzene	10.98	146	434676	22.95	ug/L		93
61)	1,4-Dichlorobenzene	11.03	146	422579	22.83	ug/L		95
62)	n-butylbenzene	11.19	91	856195	23.55	ug/L		99
63)	1,2-Dichlorobenzene	11.24	146	363413	22.24	ug/L		95
64)	Hexachloroethane	11.40	117	129918	20.10	ug/L	#	69
65)	1,2-dibromo-3-chloropropan	11.66	75	13465	24.25	ug/L		93
66)	1,2,4-trichlorobenzene	12.11	180	237858	25.14	ug/L		99
67)	hexachlorobutadiene	12.17	225	160125	24.44	ug/L	#	87
68)	naphthalene	12.26	128	281936	23.72	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	192353	24.22	ug/L	#	87

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL65.D Vial: 65
Acq On : 26 Jul 2017 6:12 am Operator: MGC
Sample : B[G2094-MS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:26 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL65.D Vial: 65
Acq On : 26 Jul 2017 6:12 am Operator: MGC
Sample : B[G2094-MS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:10 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	184936	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	283319	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	75766	10.00	ug/L	0.00

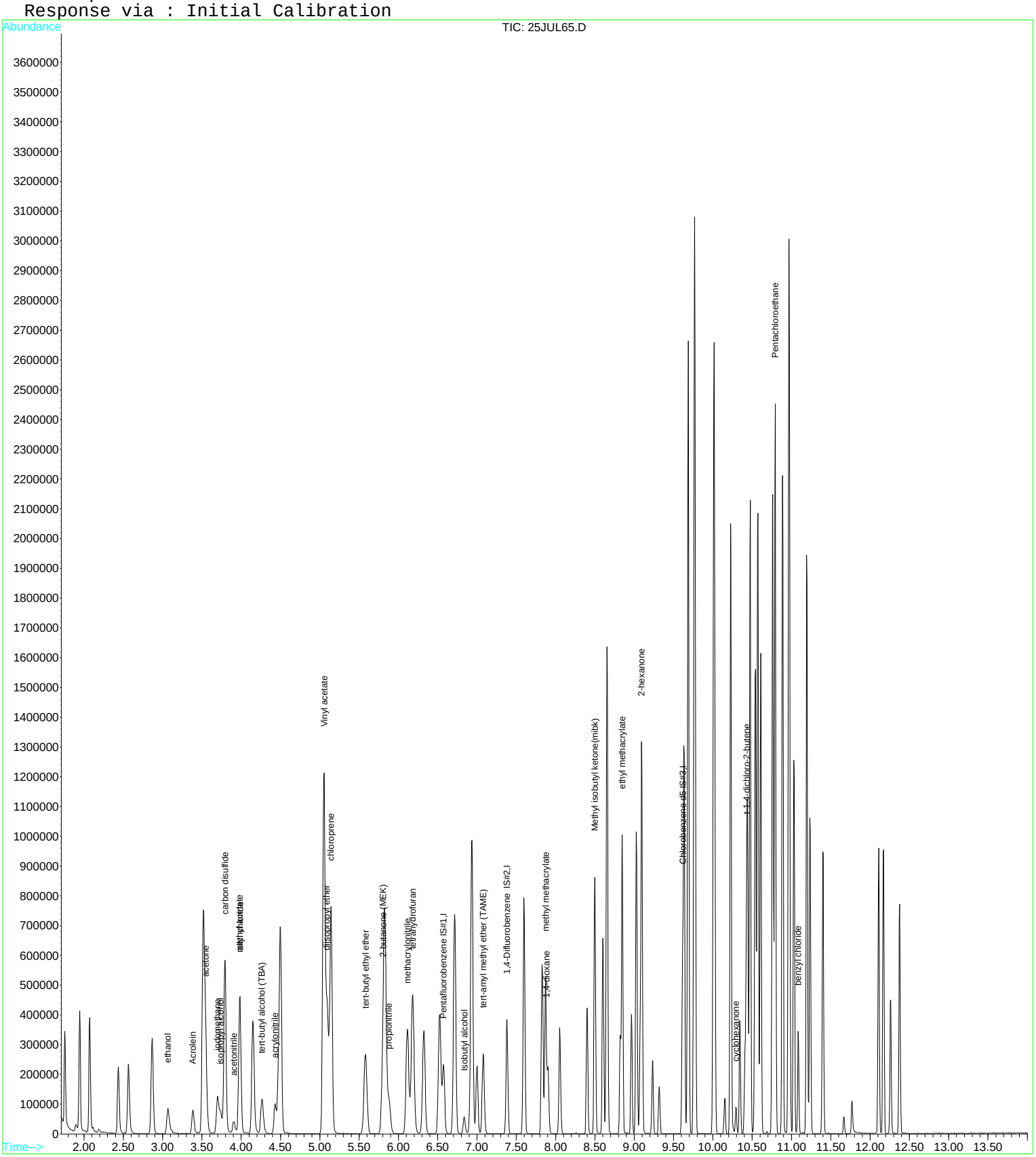
Target Compounds						Qvalue
2) ethanol	3.07	45	127187	3814.11	ug/L #	74
6) isopropyl alcohol	3.74	45	120054	781.04	ug/L #	1
7) Acrolein	3.38	56	91234	270.71	ug/L	91
8) acetone	3.55	43	220073	288.79	ug/L	98
9) tert-butyl alcohol (TBA)	4.26	59	176590	807.09	ug/L	100
10) acetonitrile	3.91	41	54152	149.21	ug/L	92
11) methyl acetate	3.97	43	4868	2.12	ug/L #	44
12) allyl chloride	3.98	41	582888	31.42	ug/L	97
13) iodomethane	3.70	142	199103	18.26	ug/L	99
14) acrylonitrile	4.43	53	97909	77.92	ug/L	95
15) carbon disulfide	3.79	76	894993	31.92	ug/L	100
17) diisopropyl ether	5.09	87	112555	16.29	ug/L	83
18) Vinyl acetate	5.05	43	1692715	156.82	ug/L	97
19) chloroprene	5.14	53	625453	32.08	ug/L	93
20) tert-butyl ethyl ether	5.58	59	352549	15.59	ug/L	98
21) 2-butanone (MEK)	5.80	43	202839	149.92	ug/L	91
22) propionitrile	5.88	54	172726	380.26	ug/L #	88
23) Isobutyl alcohol	6.83	43	44753	427.03	ug/L #	41
24) methacrylonitrile	6.12	67	187361	151.31	ug/L	98
26) tetrahydrofuran	6.19	42	273072	300.71	ug/L	92
28) tert-amyl methyl ether (TA	7.08	73	189047	15.19	ug/L	85
30) methyl methacrylate	7.87	69	167213	79.05	ug/L	91
32) 1,4-dioxane	7.89	88	46506	1805.43	ug/L	94
33) Methyl isobutyl ketone(mib	8.50	43	502850	158.63	ug/L	99
34) ethyl methacrylate	8.85	69	398009	82.25	ug/L	97
35) 2-hexanone	9.09	43	667407	310.81	ug/L	96
38) cyclohexanone	10.29	55	36162	72.12	ug/L	100
39) t-1,4-dichloro-2-butene	10.42	75	168493	211.23	ug/L #	15
41) Pentachloroethane	10.80	167	68594	22.63	ug/L #	79
42) benzyl chloride	11.09	91	189581	36.84	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL65.D Vial: 65
Acq On : 26 Jul 2017 6:12 am Operator: MGC
Sample : B[G2094-MS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:10 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Raw Data - Matrix Spike Duplicate

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL66.D Vial: 66
Acq On : 26 Jul 2017 6:35 am Operator: MGC
Sample : B[G2094-MSD1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:49 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	185356	10.00	ug/L		0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	275292	10.00	ug/L		0.00
39) Chlorobenzene d5 IS#3	9.61	119	75381	10.00	ug/L		0.00
System Monitoring Compounds							
21) 1,2-dichloroethane d4 SMC	6.91	65	52481	9.69	ug/L		0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 96.90%							
31) Toluene d8 SMC#2	8.60	98	336106	9.89	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 98.90%							
49) Bromofluorobenzene SMC#3	10.34	95	110234	9.79	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 97.90%							
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.75	85	218290	23.67	ug/L		95
3) Chloromethane	1.94	50	304435	17.46	ug/L		99
4) Vinyl chloride	2.07	62	326686	23.52	ug/L	#	66
5) Bromomethane	2.44	94	147432	19.57	ug/L	#	89
6) Chloroethane	2.56	64	213709	22.41	ug/L		99
7) Trichlorofluoromethane	2.87	101	284707	24.94	ug/L		100
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	200464	25.58	ug/L	#	84
9) 1,1-Dichloroethene	3.51	61	382938	25.60	ug/L		95
10) Methylene chloride	4.15	84	180910	22.62	ug/L		96
11) MTBE	4.48	73	275650	24.63	ug/L	#	78
12) T-1,2-dichloroethene	4.50	96	233671	25.16	ug/L		92
13) 1,1-Dichloroethane	5.05	63	475634	23.98	ug/L		99
14) 2,2-Dichloropropane	5.83	77	294761	26.41	ug/L		87
15) Cis-1,2-dichloroethene	5.82	96	235250	24.30	ug/L		96
16) Bromochloromethane	6.18	128	74262	24.07	ug/L	#	90
17) Chloroform	6.32	83	329906	23.51	ug/L		92
18) 1,1,1-Trichloroethane	6.52	97	302692	24.92	ug/L	#	73
19) 1,1-Dichloropropene	6.71	75	292923	23.08	ug/L		95
20) Carbon tetrachloride	6.71	119	213092	25.58	ug/L		92
22) 1,2-Dichloroethane	7.00	62	177813	23.58	ug/L	#	89
23) Benzene	6.93	78	894502	23.57	ug/L	#	7
25) Trichloroethene	7.59	130	242206	25.62	ug/L		87
26) 1,2-Dichloropropane	7.83	63	248202	23.76	ug/L		95
27) Dibromomethane	7.90	93	66802	25.34	ug/L		95
28) Bromodichloromethane	8.05	83	197790	24.96	ug/L		92
30) Cis-1,3-dichloropropene	8.40	75	242394	24.50	ug/L		96
32) Toluene	8.65	92	587077	24.62	ug/L		94
33) Trans-1,3-dichloropropene	8.82	75	167598	25.95	ug/L	#	86
34) 1,1,2-Trichloroethane	8.96	97	101616	23.71	ug/L		85
35) Tetrachloroethene (PCE)	9.03	166	238764	26.36	ug/L		95
36) 1,3-Dichloropropane	9.08	76	162469	23.34	ug/L		95
37) Dibromochloromethane	9.23	129	110106	26.59	ug/L	#	94
38) 1,2-Dibromoethane	9.32	107	88578	24.87	ug/L		96
40) Chlorobenzene	9.63	112	562076	22.49	ug/L		89
41) 1,1,1,2-Tetrachloroethane	9.68	131	160632	26.11	ug/L		97
42) Ethylbenzene	9.68	106	359273	24.46	ug/L		81
43) P+m-Xylene	9.77	106	856883	47.70	ug/L		100
44) O-Xylene	10.01	106	406200	24.47	ug/L		89
45) Styrene	10.02	104	631319	24.95	ug/L		92
46) Bromoform	10.15	173	47636	25.74	ug/L	#	100
47) Isopropylbenzene	10.23	105	1061967	24.71	ug/L		97
48) 1,1,2,2-Tetrachloroethane	10.40	83	100351	24.48	ug/L		95
50) 1,2,3-Trichloropropane	10.45	110	22828	26.20	ug/L	#	13
51) n-propylbenzene	10.47	91	1288341	23.09	ug/L		93
52) bromobenzene	10.44	156	220198	25.01	ug/L		85

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL66.D Vial: 66
Acq On : 26 Jul 2017 6:35 am Operator: MGC
Sample : B[G2094-MSD1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:49 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

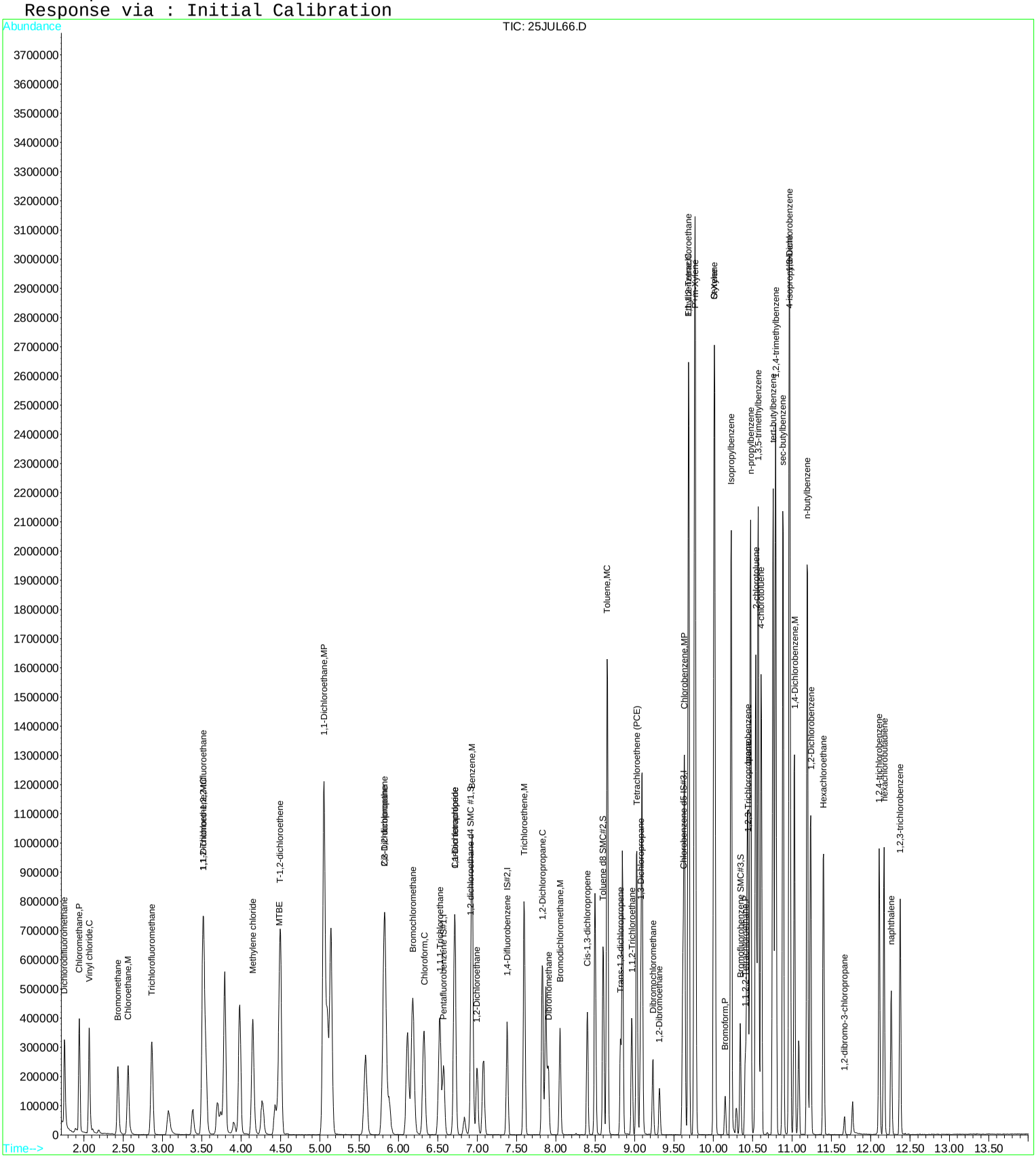
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	1,3,5-trimethylbenzene	10.57	105	893409	25.12	ug/L		93
54)	2-chlorotoluene	10.54	91	803018	22.78	ug/L		100
55)	4-chlorotoluene	10.61	91	720753	22.64	ug/L		98
56)	tert-butylbenzene	10.76	119	848823	24.16	ug/L		96
57)	1,2,4-trimethylbenzene	10.79	105	842235	23.91	ug/L		93
58)	sec-butylbenzene	10.88	105	1179791	24.79	ug/L		98
59)	4-isopropyltoluene	10.97	119	977501	25.18	ug/L		97
60)	1,3-Dichlorobenzene	10.98	146	437667	23.23	ug/L		94
61)	1,4-Dichlorobenzene	11.03	146	430542	23.38	ug/L		94
62)	n-butylbenzene	11.19	91	870764	24.07	ug/L		99
63)	1,2-Dichlorobenzene	11.24	146	370306	22.78	ug/L		97
64)	Hexachloroethane	11.40	117	136424	21.12	ug/L	#	67
65)	1,2-dibromo-3-chloropropan	11.66	75	13073	23.66	ug/L		94
66)	1,2,4-trichlorobenzene	12.11	180	246480	26.18	ug/L		99
67)	hexachlorobutadiene	12.17	225	160715	24.66	ug/L	#	87
68)	naphthalene	12.26	128	298502	25.24	ug/L		100
69)	1,2,3-trichlorobenzene	12.37	180	200409	25.36	ug/L	#	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL66.D Vial: 66
Acq On : 26 Jul 2017 6:35 am Operator: MGC
Sample : B[G2094-MSD1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:49 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL66.D Vial: 66
Acq On : 26 Jul 2017 6:35 am Operator: MGC
Sample : B[G2094-MSD1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:12 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.58	168	185356	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	275292	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.61	119	75381	10.00	ug/L	0.00

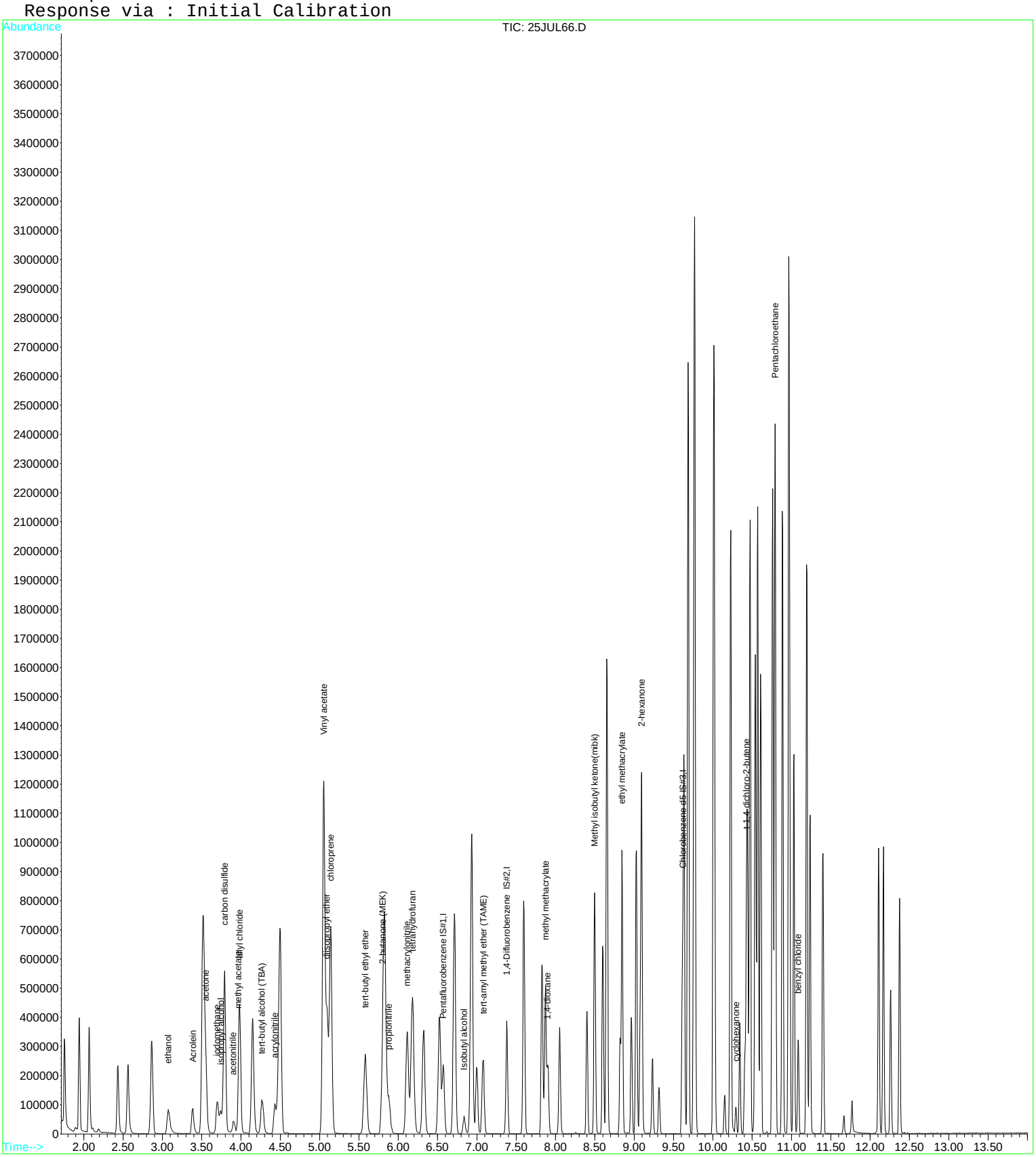
Target Compounds						Qvalue
2) ethanol	3.08	45	136541	4085.34	ug/L #	76
6) isopropyl alcohol	3.74	45	126192	819.11	ug/L #	1
7) Acrolein	3.39	56	101533	300.59	ug/L	94
8) acetone	3.56	43	216541	283.52	ug/L	98
9) tert-butyl alcohol (TBA)	4.26	59	178740	815.06	ug/L	100
10) acetonitrile	3.90	41	56798	156.15	ug/L	86
11) methyl acetate	3.96	43	4959	2.16	ug/L #	49
12) allyl chloride	3.98	41	557919	30.00	ug/L	96
13) iodomethane	3.70	142	168071	15.38	ug/L	99
14) acrylonitrile	4.43	53	100450	79.77	ug/L	95
15) carbon disulfide	3.79	76	854970	30.42	ug/L	100
17) diisopropyl ether	5.09	87	108896	15.72	ug/L	83
18) Vinyl acetate	5.05	43	1643300	151.90	ug/L	97
19) chloroprene	5.14	53	600789	30.74	ug/L	93
20) tert-butyl ethyl ether	5.58	59	343303	15.15	ug/L	99
21) 2-butanone (MEK)	5.80	43	202330	149.20	ug/L	91
22) propionitrile	5.88	54	170934	375.46	ug/L #	86
23) Isobutyl alcohol	6.84	43	47402	451.28	ug/L #	43
24) methacrylonitrile	6.11	67	187545	151.11	ug/L	99
26) tetrahydrofuran	6.19	42	266473	292.78	ug/L	92
28) tert-amyl methyl ether (TA	7.08	73	185215	14.85	ug/L	85
30) methyl methacrylate	7.87	69	164329	79.95	ug/L	94
32) 1,4-dioxane	7.89	88	49818	1990.40	ug/L	94
33) Methyl isobutyl ketone(mib	8.50	43	483358	156.93	ug/L	99
34) ethyl methacrylate	8.84	69	381764	81.19	ug/L	96
35) 2-hexanone	9.10	43	658873	315.78	ug/L	97
38) cyclohexanone	10.29	55	37757	75.68	ug/L	98
39) t-1,4-dichloro-2-butene	10.42	75	169175	213.16	ug/L #	14
41) Pentachloroethane	10.80	167	61547	20.41	ug/L #	75
42) benzyl chloride	11.08	91	182662	35.76	ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL66.D Vial: 66
Acq On : 26 Jul 2017 6:35 am Operator: MGC
Sample : B[G2094-MSD1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:12 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Raw Data - Lab Control Sample

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL64.D Vial: 64
Acq On : 26 Jul 2017 5:49 am Operator: MGC
Sample : B[G2094-BS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:03 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	181798	10.00	ug/L		0.00
24) 1,4-Difluorobenzene IS#2	7.38	114	274153	10.00	ug/L		0.00
39) Chlorobenzene d5 IS#3	9.62	119	70287	10.00	ug/L		0.00
System Monitoring Compounds							
21) 1,2-dichloroethane d4 SMC	6.92	65	50038	9.42	ug/L		0.00
Spiked Amount 10.000 Range 75 - 125 Recovery = 94.20%							
31) Toluene d8 SMC#2	8.60	98	327006	9.66	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 96.60%							
49) Bromofluorobenzene SMC#3	10.34	95	104654	9.97	ug/L		0.00
Spiked Amount 10.000 Range 80 - 120 Recovery = 99.70%							
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.76	85	220473	24.37	ug/L		95
3) Chloromethane	1.95	50	300999	17.60	ug/L		98
4) Vinyl chloride	2.07	62	318053	23.34	ug/L	#	67
5) Bromomethane	2.44	94	111924	15.14	ug/L	#	90
6) Chloroethane	2.57	64	211761	22.64	ug/L		96
7) Trichlorofluoromethane	2.87	101	274255	24.49	ug/L		97
8) 1,1,2-Trichloro-1,2,2-trif	3.53	101	195427	25.42	ug/L	#	84
9) 1,1-Dichloroethene	3.51	61	376420	25.66	ug/L		95
10) Methylene chloride	4.15	84	180326	22.99	ug/L		96
11) MTBE	4.49	73	249546	22.73	ug/L	#	79
12) T-1,2-dichloroethene	4.50	96	223103	24.50	ug/L		93
13) 1,1-Dichloroethane	5.05	63	463830	23.84	ug/L		99
14) 2,2-Dichloropropane	5.83	77	284305	25.97	ug/L		90
15) Cis-1,2-dichloroethene	5.82	96	232876	24.53	ug/L		95
16) Bromochloromethane	6.17	128	72785	24.06	ug/L	#	85
17) Chloroform	6.33	83	332523	24.16	ug/L		93
18) 1,1,1-Trichloroethane	6.53	97	299061	25.10	ug/L	#	71
19) 1,1-Dichloropropene	6.72	75	288841	23.21	ug/L		94
20) Carbon tetrachloride	6.71	119	204828	25.07	ug/L		91
22) 1,2-Dichloroethane	7.00	62	177045	23.94	ug/L	#	87
23) Benzene	6.94	78	878921	23.61	ug/L	#	8
25) Trichloroethene	7.60	130	236709	25.14	ug/L		88
26) 1,2-Dichloropropane	7.83	63	247944	23.84	ug/L		96
27) Dibromomethane	7.90	93	66858	25.47	ug/L		96
28) Bromodichloromethane	8.05	83	196705	24.92	ug/L		92
29) 2-ceve	8.27	63	237059	88.25	ug/L	#	76
30) Cis-1,3-dichloropropene	8.40	75	242848	24.64	ug/L		97
32) Toluene	8.65	92	597929	25.18	ug/L		92
33) Trans-1,3-dichloropropene	8.82	75	163237	25.38	ug/L	#	84
34) 1,1,2-Trichloroethane	8.96	97	101825	23.86	ug/L		86
35) Tetrachloroethene (PCE)	9.03	166	239497	26.55	ug/L		95
36) 1,3-Dichloropropane	9.08	76	162945	23.51	ug/L		94
37) Dibromochloromethane	9.23	129	104807	25.41	ug/L	#	93
38) 1,2-Dibromoethane	9.32	107	87461	24.66	ug/L		94
40) Chlorobenzene	9.63	112	555816	23.85	ug/L		90
41) 1,1,1,2-Tetrachloroethane	9.69	131	154097	26.87	ug/L		99
42) Ethylbenzene	9.69	106	359913	26.28	ug/L		81
43) P+m-Xylene	9.77	106	859639	51.32	ug/L		100
44) O-Xylene	10.01	106	407006	26.29	ug/L		90
45) Styrene	10.02	104	633783	26.86	ug/L		93
46) Bromoform	10.15	173	47757	27.68	ug/L	#	100
47) Isopropylbenzene	10.23	105	1074051	26.80	ug/L		98
48) 1,1,2,2-Tetrachloroethane	10.40	83	96095	25.14	ug/L		99
50) 1,2,3-Trichloropropane	10.45	110	21641	26.63	ug/L	#	19
51) n-propylbenzene	10.48	91	1286155	24.72	ug/L		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL64.D Vial: 64
Acq On : 26 Jul 2017 5:49 am Operator: MGC
Sample : B[G2094-BS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:03 2017 Quant Results File: 82605.RES

Quant Method : C:\HPCHEM\1...\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration
DataAcq Meth : 82605

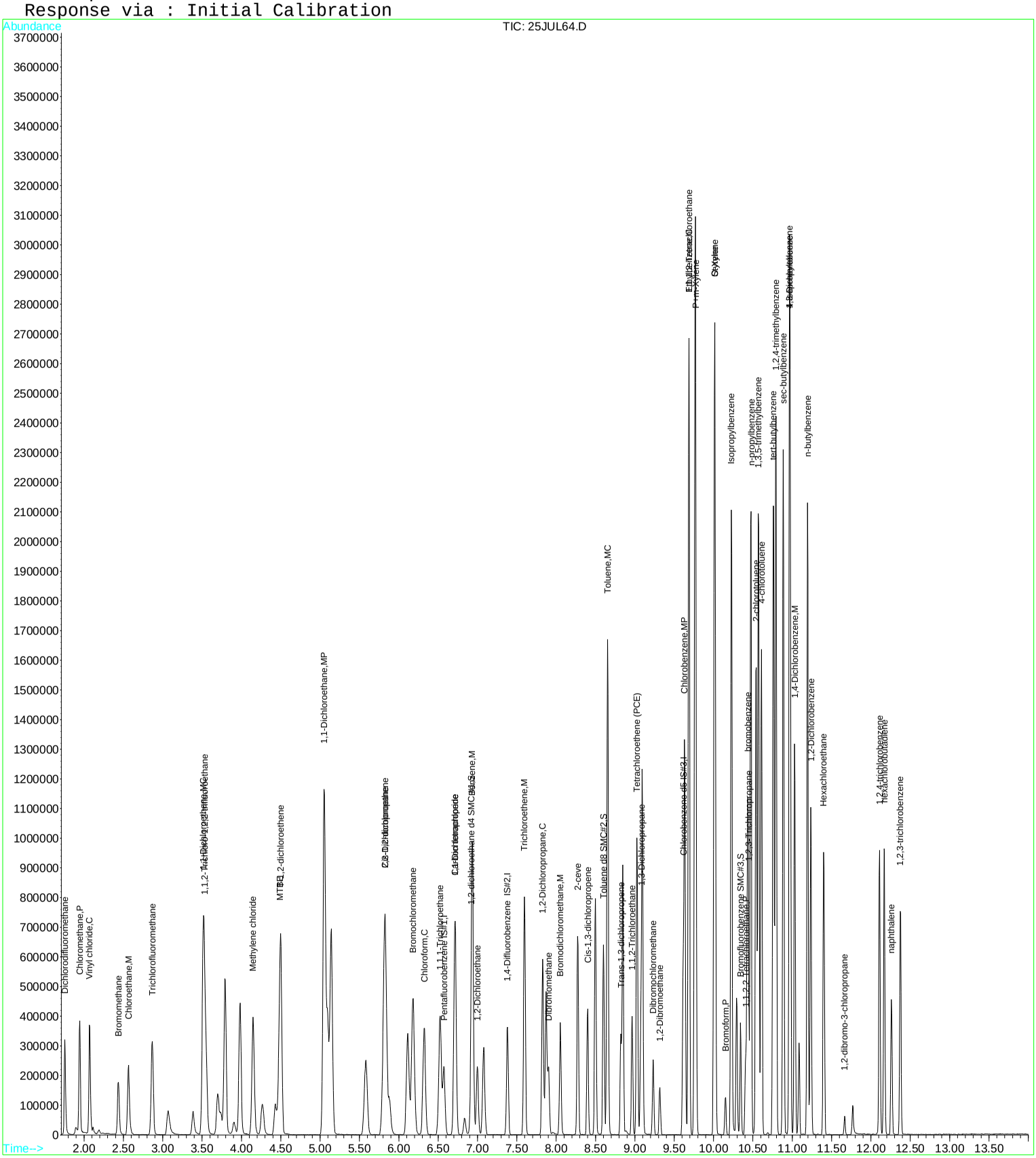
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	bromobenzene	10.44	156	216435	26.37	ug/L		88
53)	1,3,5-trimethylbenzene	10.57	105	897212	27.06	ug/L		94
54)	2-chlorotoluene	10.54	91	820422	24.96	ug/L		99
55)	4-chlorotoluene	10.61	91	738232	24.87	ug/L		98
56)	tert-butylbenzene	10.76	119	862908	26.34	ug/L		96
57)	1,2,4-trimethylbenzene	10.79	105	865386	26.35	ug/L		94
58)	sec-butylbenzene	10.89	105	1213613	27.34	ug/L		98
59)	4-isopropyltoluene	10.96	119	989746	27.35	ug/L		97
60)	1,3-Dichlorobenzene	10.97	146	440690	25.08	ug/L		94
61)	1,4-Dichlorobenzene	11.03	146	431423	25.12	ug/L		95
62)	n-butylbenzene	11.19	91	891824	26.44	ug/L		98
63)	1,2-Dichlorobenzene	11.23	146	371687	24.52	ug/L		96
64)	Hexachloroethane	11.40	117	133067	22.01	ug/L	#	69
65)	1,2-dibromo-3-chloropropan	11.66	75	13427	26.06	ug/L		97
66)	1,2,4-trichlorobenzene	12.11	180	238986	27.22	ug/L		99
67)	hexachlorobutadiene	12.17	225	162800	26.79	ug/L	#	87
68)	naphthalene	12.26	128	281372	25.51	ug/L		100
69)	1,2,3-trichlorobenzene	12.38	180	191427	25.98	ug/L	#	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL64.D Vial: 64
Acq On : 26 Jul 2017 5:49 am Operator: MGC
Sample : B[G2094-BS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 6:03 2017 Quant Results File: 82605.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1005\82605.M (RTE Integrator)
Title : EPA Method 624/524.2/8260
Last Update : Thu Jul 20 11:28:22 2017
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL64.D Vial: 64
Acq On : 26 Jul 2017 5:49 am Operator: MGC
Sample : B[G2094-BS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:10 2017 Quant Results File: 82605X.RES

Quant Method : C:\HPCHEM\1...\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.57	168	181798	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.38	114	274153	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.62	119	70287	10.00	ug/L	0.00

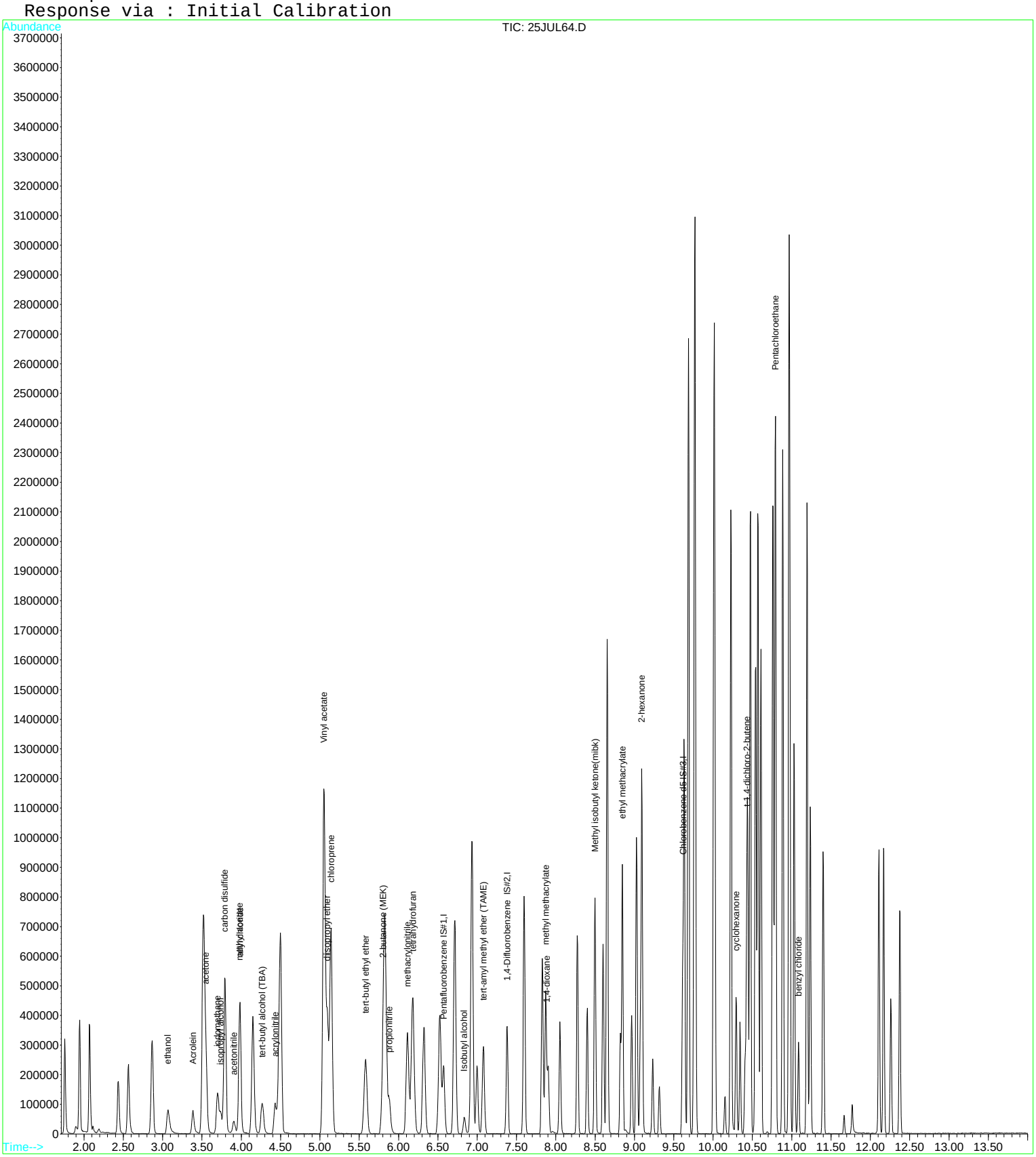
Target Compounds						Qvalue
2) ethanol	3.07	45	126842	3869.42	ug/L #	72
6) isopropyl alcohol	3.73	45	115538	764.63	ug/L #	72
7) Acrolein	3.39	56	90954	274.54	ug/L	95
8) acetone	3.55	43	212745	284.00	ug/L	99
9) tert-butyl alcohol (TBA)	4.27	59	154985	720.57	ug/L	100
10) acetonitrile	3.91	41	56491	158.35	ug/L	93
11) methyl acetate	3.97	43	5111	2.27	ug/L #	86
12) allyl chloride	3.98	41	550632	30.19	ug/L	98
13) iodomethane	3.70	142	196920	18.37	ug/L	98
14) acrylonitrile	4.43	53	99291	80.39	ug/L	94
15) carbon disulfide	3.79	76	817722	29.67	ug/L	100
17) diisopropyl ether	5.09	87	101755	14.98	ug/L	87
18) Vinyl acetate	5.05	43	1586137	149.49	ug/L	97
19) chloroprene	5.14	53	592032	30.89	ug/L	96
20) tert-butyl ethyl ether	5.58	59	323077	14.53	ug/L	97
21) 2-butanone (MEK)	5.80	43	190357	143.12	ug/L	92
22) propionitrile	5.89	54	171704	384.53	ug/L #	90
23) Isobutyl alcohol	6.84	43	43801	425.16	ug/L #	37
24) methacrylonitrile	6.12	67	176145	144.70	ug/L	93
26) tetrahydrofuran	6.18	42	258180	289.22	ug/L	93
28) tert-amyl methyl ether (TA	7.07	73	171698	14.04	ug/L	89
30) methyl methacrylate	7.87	69	154591	75.53	ug/L	90
32) 1,4-dioxane	7.89	88	49080	1969.06	ug/L	94
33) Methyl isobutyl ketone(mib	8.50	43	467378	152.37	ug/L	99
34) ethyl methacrylate	8.85	69	352699	75.32	ug/L	96
35) 2-hexanone	9.09	43	619875	298.32	ug/L	96
38) cyclohexanone	10.29	55	180827	388.72	ug/L	99
39) t-1,4-dichloro-2-butene	10.42	75	163966	221.57	ug/L #	13
41) Pentachloroethane	10.79	167	62493	22.23	ug/L #	75
42) benzyl chloride	11.09	91	167843	35.28	ug/L	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\MS-V5\JUL2017\JUL25\25JUL64.D Vial: 64
Acq On : 26 Jul 2017 5:49 am Operator: MGC
Sample : B[G2094-BS1 Inst : MS-V5
Misc : 1 VO-109-70506;70519;70520;70521;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Jul 26 7:10 2017 Quant Results File: 82605X.RES

Method : C:\HPCHEM\1\METHODS\MS-V5\201707\20-1441\82605X.M (RTE Integrator)
Title : EPA Method 624/8260
Last Update : Fri Jul 21 04:19:15 2017
Response via : Initial Calibration



Raw Data - Batch Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G2094

BC Laboratories

Printed: 8/22/2017 1:10:14PM

Matrix: Water | Prepared using: Volatiles - GC/MS - EPA 5030 Water MS | SurrogateUsed: 7G20041

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720121-01 A	g8260w Full3	7/25/2017 7:46AM		25	25				4	
1720121-01 A	gm8260w Full QC Navy	7/25/2017 7:46AM	MGC	25	25				4	
1720121-01 A	g8260w Full	7/25/2017 7:46AM		25	25				4	
1720121-02 A	gm8260w Full QC Navy	7/25/2017 7:46AM	MGC	25	25				4	
1720121-03 A	gm8260w Full QC Navy	7/25/2017 7:46AM	MGC	25	25				4	
1720121-04 A	gm8260w Full QC Navy	7/25/2017 7:46AM	MGC	25	25				4	
1720121-05 A	gm8260w Full QC Navy	7/25/2017 7:46AM	MGC	25	25				4	
1720121-06 A	gm8260w Full QC Navy	7/25/2017 7:46AM	MGC	25	25				4	
1720121-07 A	gm8260w Full QC Navy	7/25/2017 7:46AM	MGC	25	25				4	
1720121-08 A	gm8260w Full QC Navy	7/25/2017 7:46AM	MGC	25	25				4	
1720121-09 A	gm8260w Full QC Navy	7/25/2017 7:46AM	MGC	25	25				4	
1720121-10 A	gm8260w Full QC Navy	7/25/2017 7:46AM	MGC	25	25				4	
1720121-11 A	gm8260w Full QC Navy	7/25/2017 7:46AM	MGC	25	25				4	
1720121-12 A	gm8260w Full QC Navy	7/25/2017 7:46AM	MGC	25	25				4	
1720121-13 A	gm8260w Full QC Navy	7/25/2017 7:46AM	MGC	25	25				4	
1720121-14 A	gm8260w Full QC Navy	7/25/2017 7:46AM	MGC	25	25				4	
1720121-15 A	gm8260w Full QC Navy	7/25/2017 7:46AM	MGC	25	25				4	
1720121-16 A	gm8260w Full QC Navy	7/25/2017 7:46AM	MGC	25	25				4	
1720121-17 A	gm8260w Full QC Navy	7/25/2017 7:46AM	MGC	25	25				4	
1720349-01 A	g8260w Full	7/26/2017 7:46AM	MGC	25	25				4	
1720349-02 A	g8260w Full3	7/26/2017 7:46AM	MGC	25	25				4	
1720349-03 A	g8260w Full3	7/26/2017 7:46AM	MGC	25	25				4	
B[G2094-BLK1	QC	7/25/2017 7:46AM	MGC	25	25				4	
B[G2094-BS1	QC	7/25/2017 7:46AM	MGC	25	25	7G21007		12.5	4	
B[G2094-MS1	QC	7/25/2017 7:46AM	MGC	25	25	7G21007	1720121-01	12.5	4	

PREPARATION BENCH SHEET

B[G2094

BC Laboratories

Printed: 8/22/2017 1:10:14PM

Matrix: Water

Prepared using: Volatiles - GC/MS - EPA 5030 Water MS

SurrogateUsed: 7G20041

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
B[G2094-MSD1	QC	7/25/2017 7:46AM	MGC	25	25	7G21007	1720121-01	12.5	4	

Surrogate Mixes	Description	Solvent	Prepared	Expires
7G20041	8260 V5 WORK SURR. STD BATCH	Methanol VRL-15-5590	7/20/2017 by Miguel Chavez	10/20/2017
7G21007	8260 V5 I SPIKE COMBO	meoh	7/20/2017 by Miguel Chavez	10/20/2017

Raw Data - Sequence Information

ANALYSIS SEQUENCE

1712752

Instrument: MS-V5
Calibration ID: 1707017
Sequence Date: 07/18/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1712752-TUN1	QC		1		7F24002		
1712752-CAL1	QC		2		7G20044		
1712752-CAL2	QC		3		7G20045		
1712752-CAL3	QC		4		7G20046		
1712752-CAL4	QC		5		7G20047		
1712752-CAL5	QC		6		7G20048		
1712752-CAL6	QC		7		7G20049		
1712752-CAL7	QC		8		7G20056		
1712752-CAL8	QC		9		7G20057		
1712752-CAL9	QC		10		7G20058		
1712752-CALA	QC		11		7G20059		
1712752-CALB	QC		12		7G20060		
1712752-CALC	QC		13		7G20061		
1712752-TUN2	QC		14		7F24002		
1712752-CALD	QC		15		7G20063		
1712752-CALE	QC		16		7G20064		
1712752-CALF	QC		17		7G20065		
1712752-CALG	QC		18		7G20066		
1712752-CALH	QC		19		7G20067		
1712752-CALI	QC		20		7G20068		

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713088

Instrument: MS-V5
Calibration ID: 1707017 Sequence Date: 07/25/2017 Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713088-ICV1	QC		1		7G20050		
1713088-ICB1	QC		2		7G21006		
1713088-ICV2	QC		3		7G20062		
1713088-ICB2	QC		4		7G21006		
1713088-TUN1	QC		5		7F24002		
1713088-CCV1	QC		6		7G21004		
1713088-CCV2	QC		7		7G21005		
1713088-CCV3	QC		8		7G21008		
1713088-CCB1	QC		9		7G21006		
1720018-12	gm8260w Full QC Navy	A	10			7G20040	Full SAP LIST
1720018-13	gm8260w Full QC Navy	A	11			7G20040	Full SAP LIST
1720018-14	gm8260w Full QC Navy	A	12			7G20040	Full SAP LIST
1719995-01	g8260w Full	A	13			7G20040	
1719849-09RE1	gm8260w Full QC Navy	B	14			7G20040	Full SAP LIST
1720247-01	g8260w BTXE	A	15			7G20040	
1720247-02	g8260w BTXE	A	16			7G20040	
1720247-03	g8260w BTXE	A	17			7G20040	
1720247-04	g8260w BTXE	A	18			7G20040	
1719995-02	g8260w Full	A	19			7G20040	
1719995-02	g8260w TICs	A	20			7G20040	
1719995-03	g8260w Full	A	21			7G20040	
1719995-03	g8260w TICs	A	22			7G20040	
1719995-04	g8260w Full	A	23			7G20040	
1719995-04	g8260w TICs	A	24			7G20040	
1719852-09	g8260w	A	25			7G20040	
1719852-34	g8260w	A	26			7G20040	
1720134-01	g8260w	C	27			7G20040	
1719890-01	g8260w Full	A	28			7G20040	Influent list w/Hexane, IPA, & Acetone
1720286-02	g8260w	A	29			7G20040	
B[G2055-BLK1	QC		30			7G20040	
1720029-16	g8260w Full3	A	31			7G20040	BatchQC
1720029-16	g8260w	A	32			7G20040	BatchQC
1720029-16	gm8260w Full QC Navy	A	33			7G20040	Full SAP LIST
B[G2055-BS1	QC		34			7G20040	
B[G2055-MS1	QC		35			7G20040	
B[G2055-MSD1	QC		36			7G20040	
1713088-TUN2	QC		37		7F24002		
1713088-CCV4	QC		38		7G21004		

ANALYSIS SEQUENCE

1713088

Instrument: MS-V5
Calibration ID: 1707017
Sequence Date: 07/25/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713088-CCV5	QC		39		7G21005		
1713088-CCV6	QC		40		7G21008		
1713088-CCB2	QC		41		7G21006		
1719849-13	gm8260w Full QC Navy	A	42			7G20040	Full SAP LIST
1720029-01	gm8260w Full QC Navy	A	43			7G20040	Full SAP LIST
1720029-02	gm8260w Full QC Navy	A	44			7G20040	Full SAP LIST
1720029-03	gm8260w Full QC Navy	A	45			7G20040	Full SAP LIST
1720029-04	gm8260w Full QC Navy	A	46			7G20040	Full SAP LIST
1720029-06	gm8260w Full QC Navy	A	47			7G20040	Full SAP LIST
1720029-07	gm8260w Full QC Navy	A	48			7G20040	Full SAP LIST
1720029-08	gm8260w Full QC Navy	A	49			7G20040	Full SAP LIST
1720029-09	gm8260w Full QC Navy	A	50			7G20040	Full SAP LIST
1720029-10	gm8260w Full QC Navy	A	51			7G20040	Full SAP LIST
1720029-12	gm8260w Full QC Navy	A	52			7G20040	Full SAP LIST
1720029-13	gm8260w Full QC Navy	A	53			7G20040	Full SAP LIST
1720029-14	gm8260w Full QC Navy	A	54			7G20040	Full SAP LIST
1720029-15	gm8260w Full QC Navy	A	55			7G20040	Full SAP LIST
1720029-17	gm8260w Full QC Navy	A	56			7G20040	Full SAP LIST
1720029-18	gm8260w Full QC Navy	A	57			7G20040	Full SAP LIST
1720121-02	gm8260w Full QC Navy	A	58			7G20040	Full SAP LIST
1720121-03	gm8260w Full QC Navy	A	59			7G20040	Full SAP LIST
1720121-04	gm8260w Full QC Navy	A	60			7G20040	Full SAP LIST
1720121-05	gm8260w Full QC Navy	A	61			7G20040	Full SAP LIST
1720121-06	gm8260w Full QC Navy	A	62			7G20040	Full SAP LIST
1720121-07	gm8260w Full QC Navy	A	63			7G20040	Full SAP LIST
1720121-08	gm8260w Full QC Navy	A	64			7G20040	Full SAP LIST
1720121-09	gm8260w Full QC Navy	A	65			7G20040	Full SAP LIST
1713088-TUN3	QC		66		7F24002		
1713088-CCV7	QC		67		7G21004		
1713088-CCV8	QC		68		7G21005		
1713088-CCV9	QC		69		7G21008		
1713088-CCB3	QC		70		7G21006		
B[G2094-BLK1	QC		71			7G20040	
1720121-01	gm8260w Full QC Navy	A	72			7G20040	Full SAP LIST
1720121-01	g8260w Full	A	73			7G20040	BatchQC
1720121-01	g8260w Full3	A	74			7G20040	BatchQC
B[G2094-BS1	QC		75			7G20040	
B[G2094-MS1	QC		76			7G20040	
B[G2094-MSD1	QC		77			7G20040	

ANALYSIS SEQUENCE

1713088

Instrument: MS-V5
Calibration ID: 1707017
Sequence Date: 07/25/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1720029-05RE1	gm8260w Full QC Navy	B	78			7G20040	Full SAP LIST
1720349-04	g8260w Full3	A	79			7G20040	napthalene only
1720349-01	g8260w Full	A	80			7G20040	full scan,tpph
1720349-02	g8260w Full3	A	81			7G20040	napthalene only
1720349-03	g8260w Full3	A	82			7G20040	napthalene only
1719962-02	g8260w	B	83			7G20040	
1720279-01	g8260w	A	84			7G20040	
1720029-11RE1	gm8260w Full QC Navy	B	85			7G20040	Full SAP LIST
1720029-05	gm8260w Full QC Navy	A	86			7G20040	Full SAP LIST
1720029-11	gm8260w Full QC Navy	A	87			7G20040	Full SAP LIST
1719962-01	g8260w	B	88			7G20040	
1720121-10	gm8260w Full QC Navy	A	89			7G20040	Full SAP LIST
1720121-11	gm8260w Full QC Navy	A	90			7G20040	Full SAP LIST
1713088-TUN4	QC		91		7F24002		
1713088-CCVA	QC		92		7G21004		
1713088-CCVB	QC		93		7G21005		
1713088-CCVC	QC		94		7G21008		
1713088-CCB4	QC		95		7G21006		

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713164

Instrument: MS-V5
Calibration ID: 1707017 Sequence Date: 07/26/2017 Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713164-ICV1	QC		1		7G20050		
1713164-ICB1	QC		2		7G21006		
1713164-ICV2	QC		3		7G20062		
1713164-ICB2	QC		4		7G21006		
1713164-ICV3	QC		5		7G20069		
1713164-ICB3	QC		6		7E18044		
1713164-TUN1	QC		7		7F24002		
1713164-CCV1	QC		8		7G21004		
1713164-CCV2	QC		9		7G21005		
1713164-CCV3	QC		10		7G21008		
1713164-CCB1	QC		11		7G21006		
B[G2241-BLK1	QC		12			7G20040	
1720110-12	g8260w	A	13			7G20040	BatchQC
1720110-12	g8260w Full	A	14			7G20040	BatchQC
1720110-12	g8260w TICs	A	15			7G20040	BatchQC
1720110-12	gm8260w Full QC Navy	A	16			7G20040	standard list + TBA & tph gas
1720110-12	gm8260w Full2 QC Navy	A	17			7G20040	BatchQC
B[G2241-BS1	QC		18			7G20040	
B[G2241-MS1	QC		19			7G20040	
B[G2241-MSD1	QC		20			7G20040	
1720121-12	gm8260w Full QC Navy	A	21			7G20040	Full SAP LIST
1720121-13	gm8260w Full QC Navy	A	22			7G20040	Full SAP LIST
1720121-14	gm8260w Full QC Navy	A	23			7G20040	Full SAP LIST
1720121-15	gm8260w Full QC Navy	A	24			7G20040	Full SAP LIST
1720121-16	gm8260w Full QC Navy	A	25			7G20040	Full SAP LIST
1720121-17	gm8260w Full QC Navy	A	26			7G20040	Full SAP LIST
1720110-01	gm8260w Full2 QC Navy	A	27			7G20040	Btex,mtbe,tba only
1720110-02	gm8260w Full QC Navy	A	28			7G20040	standard list + TBA & tph gas
1720110-03	gm8260w Full QC Navy	A	29			7G20040	standard list + TBA & tph gas
1720110-04	gm8260w Full2 QC Navy	A	30			7G20040	Btex,mtbe,tba only
1720110-05	gm8260w Full2 QC Navy	A	31			7G20040	Btex,mtbe,tba only
1720110-06	gm8260w Full QC Navy	A	32			7G20040	standard list + TBA & tph gas
1720110-07	gm8260w Full2 QC Navy	A	33			7G20040	Btex,mtbe,tba only
1720110-08	gm8260w Full2 QC Navy	A	34			7G20040	Btex,mtbe,tba only
1720110-09	gm8260w Full2 QC Navy	A	35			7G20040	Btex,mtbe,tba only
1720110-10	gm8260w Full QC Navy	A	36			7G20040	standard list + TBA & tph gas
1720110-11	gm8260w Full QC Navy	A	37			7G20040	standard list + TBA & tph gas
1713164-TUN2	QC		38		7F24002		
1713164-CCV4	QC		39		7G21004		

ANALYSIS SEQUENCE

1713164

Instrument: MS-V5
Calibration ID: 1707017
Sequence Date: 07/26/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713164-CCV5	QC		40		7G21005		
1713164-CCV6	QC		41		7G21008		
1713164-CCB2	QC		42		7G21006		
1720110-02RE1	gm8260w Full QC Navy	B	43			7G20040	standard list + TBA & tph gas
1720110-03RE1	gm8260w Full QC Navy	B	44			7G20040	standard list + TBA & tph gas
1720110-09RE1	gm8260w Full2 QC Navy	B	45			7G20040	Btex,mtbe,tba only
1720110-11RE1	gm8260w Full QC Navy	B	46			7G20040	standard list + TBA & tph gas
1720110-12RE1	gm8260w Full QC Navy	D	47			7G20040	standard list + TBA & tph gas
1719834-01	g8260w Full	A	48			7G20040	624 List plus Acetone, Hexane & Ketones
1720110-11RE2	gm8260w Full QC Navy	C	49			7G20040	standard list + TBA & tph gas
1713164-TUN3	QC		50		7F24002		
1713164-CCV7	QC		51		7G21004		
1713164-CCV8	QC		52		7G21005		
1713164-CCB3	QC		53		7G21006		

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-20121**
Class: **WET**
Method: **EPA-300.0**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSES DATA PACKAGE COVER PAGE

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
15-MW1_170721	1720121-01RE1
15-MW3_170721	1720121-03
27MW03_170721	1720121-06
27MW04_170721	1720121-07
27MW04_170721	1720121-07RE1
27MW10_170721	1720121-08
27MW11_170721	1720121-09
27MW12_170721	1720121-10
M14-15_170721	1720121-11
M14-16_170721	1720121-12
27EW-12_170721	1720121-13
27MW13_170721	1720121-14

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 08-22-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: IC2

Analyte	DL	LOD	LOQ	Units
Chloride	0.077	0.1	0.5	mg/L
Nitrate as NO3	0.092	0.23	0.44	mg/L
Nitrate as N	0.021	0.05	0.1	mg/L
Sulfate	0.13	0.2	1	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

15-MW1_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-01RE1
File ID: B072117A.seq-39
Sampled: 07/21/17 08:30
Prepared: 07/22/17 00:00
Analyzed: 07/22/17 12:03
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1832
Sequence: 1713199
Calibration: UNASSIGNED
Instrument: IC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	5900	3.8	5.0	25	50	D	EPA-300.0
14797-55-8	Nitrate as N	2.5	1.0	2.5	5.0	50	UD	EPA-300.0
14808-79-8	Sulfate	1000	6.5	10	50	50	D	EPA-300.0

AMEC Environmental & Infrastructure-
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Project: Alameda
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INORGANIC ANALYSIS DATA SHEET
EPA-300.0

15-MW3_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-03
File ID: B072117A.seq-11
Sampled: 07/21/17 09:40
Prepared: 07/22/17 00:00
Analyzed: 07/22/17 03:44
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1832
Sequence: 1713199
Calibration: UNASSIGNED
Instrument: IC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	19	0.077	0.10	0.50	1		EPA-300.0
14797-55-8	Nitrate as N	0.050	0.021	0.050	0.10	1	U	EPA-300.0
14808-79-8	Sulfate	120	0.13	0.20	1.0	1		EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

27MW03_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-06
File ID: B072117A.seq-12
Sampled: 07/21/17 09:20
Prepared: 07/22/17 00:00
Analyzed: 07/22/17 04:02
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1832
Sequence: 1713199
Calibration: UNASSIGNED
Instrument: IC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	38	0.077	0.10	0.50	1		EPA-300.0
14797-55-8	Nitrate as N	0.18	0.021	0.050	0.10	1		EPA-300.0
14808-79-8	Sulfate	7.8	0.13	0.20	1.0	1		EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

27MW04_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-07
File ID: B072117A.seq-17
Sampled: 07/21/17 11:45
Prepared: 07/22/17 00:00
Analyzed: 07/22/17 05:31
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1832
Sequence: 1713199
Calibration: UNASSIGNED
Instrument: IC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-55-8	Nitrate as N	2.5	1.0	2.5	5.0	50	UD	EPA-300.0
14808-79-8	Sulfate	1300	6.5	10	50	50	D	EPA-300.0

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

27MW04_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-07RE1
File ID: B072117A.seq-43
Sampled: 07/21/17 11:45
Prepared: 07/22/17 00:00
Analyzed: 07/22/17 13:15
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1832
Sequence: 1713199
Calibration: UNASSIGNED
Instrument: IC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	11000	7.7	10	50	100	D	EPA-300.0

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
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INORGANIC ANALYSIS DATA SHEET
EPA-300.0

27MW10_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-08
File ID: B072117A.seq-18
Sampled: 07/21/17 10:26
Prepared: 07/22/17 00:00
Analyzed: 07/22/17 05:49
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1832
Sequence: 1713199
Calibration: UNASSIGNED
Instrument: IC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	33	0.077	0.10	0.50	1		EPA-300.0
14797-55-8	Nitrate as N	0.050	0.021	0.050	0.10	1	U	EPA-300.0
14808-79-8	Sulfate	140	0.13	0.20	1.0	1		EPA-300.0

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

27MW11_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-09
File ID: B072117A.seq-19
Sampled: 07/21/17 10:50
Prepared: 07/22/17 00:00
Analyzed: 07/22/17 06:07
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1832
Sequence: 1713199
Calibration: UNASSIGNED
Instrument: IC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	60	0.077	0.10	0.50	1		EPA-300.0
14797-55-8	Nitrate as N	0.050	0.021	0.050	0.10	1	U	EPA-300.0
14808-79-8	Sulfate	36	0.13	0.20	1.0	1		EPA-300.0

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
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INORGANIC ANALYSIS DATA SHEET
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27MW12_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-10
File ID: B072117A.seq-20
Sampled: 07/21/17 11:35
Prepared: 07/22/17 00:00
Analyzed: 07/22/17 06:25
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1832
Sequence: 1713199
Calibration: UNASSIGNED
Instrument: IC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	9.8	0.077	0.10	0.50	1		EPA-300.0
14797-55-8	Nitrate as N	0.47	0.021	0.050	0.10	1		EPA-300.0
14808-79-8	Sulfate	9.2	0.13	0.20	1.0	1		EPA-300.0

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

M14-15_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-11
File ID: B072117A.seq-21
Sampled: 07/21/17 08:20
Prepared: 07/22/17 00:00
Analyzed: 07/22/17 06:43
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1832
Sequence: 1713199
Calibration: UNASSIGNED
Instrument: IC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	390	0.77	1.0	5.0	10	D	EPA-300.0
14797-55-8	Nitrate as N	0.50	0.21	0.50	1.0	10	UD	EPA-300.0
14808-79-8	Sulfate	2400	1.3	2.0	10	10	D	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

M14-16_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-12
File ID: B072117A.seq-22
Sampled: 07/21/17 09:15
Prepared: 07/22/17 00:00
Analyzed: 07/22/17 07:01
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1832
Sequence: 1713199
Calibration: UNASSIGNED
Instrument: IC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	170	0.38	0.50	2.5	5	D	EPA-300.0
14797-55-8	Nitrate as N	0.25	0.10	0.25	0.50	5	UD	EPA-300.0
14808-79-8	Sulfate	1400	0.65	1.0	5.0	5	D	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

27EW-12_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-13
File ID: B072117A.seq-23
Sampled: 07/21/17 12:56
Prepared: 07/22/17 00:00
Analyzed: 07/22/17 07:18
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1832
Sequence: 1713199
Calibration: UNASSIGNED
Instrument: IC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	29	0.077	0.10	0.50	1		EPA-300.0
14797-55-8	Nitrate as N	0.061	0.021	0.050	0.10	1	J	EPA-300.0
14808-79-8	Sulfate	34	0.13	0.20	1.0	1		EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-300.0

27MW13_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-14
File ID: B072117A.seq-24
Sampled: 07/21/17 13:10
Prepared: 07/22/17 00:00
Analyzed: 07/22/17 07:36
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1831
Sequence: 1713199
Calibration: UNASSIGNED
Instrument: IC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
16887-00-6	Chloride	680	0.38	0.50	2.5	5	D	EPA-300.0
14797-55-8	Nitrate as N	0.25	0.10	0.25	0.50	5	UD	EPA-300.0
14808-79-8	Sulfate	250	0.65	1.0	5.0	5	D	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G1831
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27MW13_170721	1720121-14	B072117A.seq-24	07/22/17 00:00	
Blank	B[G1831-BLK1	B072117A.seq-04	07/22/17 00:00	
LCS	B[G1831-BS1	B072117A.seq-03	07/22/17 00:00	
Duplicate	B[G1831-DUP1	B072117A.seq-31	07/22/17 00:00	
Matrix Spike	B[G1831-MS1	B072117A.seq-32	07/22/17 00:00	
Matrix Spike Dup	B[G1831-MSD1	B072117A.seq-33	07/22/17 00:00	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G1832
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
15-MW1_170721	1720121-01RE1	B072117A.seq-39	07/22/17 00:00	Added 7/26/2017 by JSW
15-MW3_170721	1720121-03	B072117A.seq-11	07/22/17 00:00	
27MW03_170721	1720121-06	B072117A.seq-12	07/22/17 00:00	
27MW04_170721	1720121-07	B072117A.seq-17	07/22/17 00:00	
27MW04_170721	1720121-07RE1	B072117A.seq-43	07/22/17 00:00	Added 7/26/2017 by JSW
27MW10_170721	1720121-08	B072117A.seq-18	07/22/17 00:00	
27MW11_170721	1720121-09	B072117A.seq-19	07/22/17 00:00	
27MW12_170721	1720121-10	B072117A.seq-20	07/22/17 00:00	
M14-15_170721	1720121-11	B072117A.seq-21	07/22/17 00:00	
M14-16_170721	1720121-12	B072117A.seq-22	07/22/17 00:00	
27EW-12_170721	1720121-13	B072117A.seq-23	07/22/17 00:00	
Blank	B[G1832-BLK1	B072117A.seq-16	07/22/17 00:00	
LCS	B[G1832-BS1	B072117A.seq-15	07/22/17 00:00	
15-MW1_170721	B[G1832-DUP1	B072117A.seq-34	07/22/17 00:00	
15-MW1_170721	B[G1832-MS1	B072117A.seq-35	07/22/17 00:00	
15-MW1_170721	B[G1832-MSD1	B072117A.seq-36	07/22/17 00:00	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-300.0

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G1831-BLK1	File ID:	B072117A.seq-04
Prepared:	07/22/17 00:00	Preparation:	No Prep	Initial/Final:	20 ml / 20 ml
Analyzed:	07/22/17 01:40	Instrument:	IC2		
Batch:	B[G1831	Sequence:	1713199	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
16887-00-6	Chloride	0.10	0.077	0.10	0.50	U
14797-55-8	Nitrate as N	0.050	0.021	0.050	0.10	U
14808-79-8	Sulfate	0.20	0.13	0.20	1.0	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-300.0

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G1832-BLK1	File ID:	B072117A.seq-16
Prepared:	07/22/17 00:00	Preparation:	No Prep	Initial/Final:	20 ml / 20 ml
Analyzed:	07/22/17 05:14	Instrument:	IC2		
Batch:	B[G1832	Sequence:	1713199	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
16887-00-6	Chloride	0.10	0.077	0.10	0.50	U
14797-55-8	Nitrate as N	0.050	0.021	0.050	0.10	U
14808-79-8	Sulfate	0.20	0.13	0.20	1.0	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
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Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

Duplicate

DUPLICATES

EPA-300.0

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[G1831
Preparation: No Prep
Source Sample Name: Duplicate

SDG: 17-20121
Project: Alameda
Laboratory ID: B[G1831-DUP1
Lab Source ID: 1720110-12
Initial/Final: 20 ml / 20 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Chloride	10	448.11		453.96		1.30		EPA-300.0
Nitrate as NO3	10	559.95		561.98		0.363		EPA-300.0
Nitrate as N	10	126.49		126.95		0.363		EPA-300.0
Sulfate	10	2737.8		2755.7		0.652		EPA-300.0

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

15-MW1_170721

DUPLICATES
EPA-300.0

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[G1832
Preparation: No Prep
Source Sample Name: 15-MW1_170721

SDG: 17-20121
Project: Alameda
Laboratory ID: B[G1832-DUP1
Lab Source ID: 1720121-01
Initial/Final: 20 ml / 20 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Chloride	10	5761.4		5747.0		0.250		EPA-300.0
Nitrate as NO3	10	8.4109		ND				EPA-300.0
Nitrate as N	10	1.9000		ND				EPA-300.0
Sulfate	10	1058.6		1039.6		1.81		EPA-300.0

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-300.0

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1831
Laboratory ID: B[G1831-MS1
Preparation: No Prep
Initial/Final: 19.8 ml / 20 ml
Source Sample Number: 1720110-12

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Chloride	505.05	448.11	989.33	107	80 - 120
Nitrate as NO3	223.58	559.95	779.97	98.4	80 - 120
Nitrate as N	50.505	126.49	176.19	98.4	80 - 120
Sulfate	1010.1	2737.8	3693.1	94.6	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloride	505.05	989.67	107	0.0337	10	80 - 120
Nitrate as NO3	223.58	782.52	99.5	0.326	10	80 - 120
Nitrate as N	50.505	176.77	99.5	0.326	10	80 - 120
Sulfate	1010.1	3694.3	94.7	0.0328	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-300.0

15-MW1_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1832
Laboratory ID: B[G1832-MS1
Preparation: No Prep
Initial/Final: 19.8 ml / 20 ml
Source Sample Number: 1720121-01

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Chloride	5050.5	5761.4	11032	104	80 - 120
Nitrate as NO3	2235.8	ND	2263.9	101	80 - 120
Nitrate as N	505.05	ND	511.41	101	80 - 120
Sulfate	10101	1058.6	11348	102	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloride	5050.5	11033	104	0.0102	10	80 - 120
Nitrate as NO3	2235.8	2254.1	101	0.435	10	80 - 120
Nitrate as N	505.05	509.19	101	0.435	10	80 - 120
Sulfate	10101	11344	102	0.0356	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1831
Laboratory ID: B[G1831-BS1
Preparation: No Prep
Initial/Final: 20 ml / 20 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Chloride	50.000	49.739	99.5	90 - 110
Nitrate as NO3	22.134	21.970	99.3	90 - 110
Nitrate as N	5.0000	4.9630	99.3	90 - 110
Sulfate	100.00	98.544	98.5	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1832
Laboratory ID: B[G1832-BS1
Preparation: No Prep
Initial/Final: 20 ml / 20 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Chloride	50.000	50.156	100	90 - 110
Nitrate as NO3	22.134	22.130	100	90 - 110
Nitrate as N	5.0000	4.9990	100	90 - 110
Sulfate	100.00	99.381	99.4	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713199
Instrument: IC2
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1713199-ICV1	B072117A.seq-01	07/22/17 00:46
Initial Cal Blank	1713199-ICB1	B072117A.seq-02	07/22/17 01:04
LCS	B[G1831-BS1	B072117A.seq-03	07/22/17 01:22
Blank	B[G1831-BLK1	B072117A.seq-04	07/22/17 01:40
15-MW3_170721	1720121-03	B072117A.seq-11	07/22/17 03:44
27MW03_170721	1720121-06	B072117A.seq-12	07/22/17 04:02
Calibration Check	1713199-CCV1	B072117A.seq-13	07/22/17 04:20
Calibration Blank	1713199-CCB1	B072117A.seq-14	07/22/17 04:38
LCS	B[G1832-BS1	B072117A.seq-15	07/22/17 04:56
Blank	B[G1832-BLK1	B072117A.seq-16	07/22/17 05:14
27MW04_170721	1720121-07	B072117A.seq-17	07/22/17 05:31
27MW10_170721	1720121-08	B072117A.seq-18	07/22/17 05:49
27MW11_170721	1720121-09	B072117A.seq-19	07/22/17 06:07
27MW12_170721	1720121-10	B072117A.seq-20	07/22/17 06:25
M14-15_170721	1720121-11	B072117A.seq-21	07/22/17 06:43
M14-16_170721	1720121-12	B072117A.seq-22	07/22/17 07:01
27EW-12_170721	1720121-13	B072117A.seq-23	07/22/17 07:18
27MW13_170721	1720121-14	B072117A.seq-24	07/22/17 07:36
Calibration Check	1713199-CCV2	B072117A.seq-25	07/22/17 07:54
Calibration Blank	1713199-CCB2	B072117A.seq-26	07/22/17 08:12
Duplicate	B[G1831-DUP1	B072117A.seq-31	07/22/17 09:41
Matrix Spike	B[G1831-MS1	B072117A.seq-32	07/22/17 09:59
Matrix Spike Dup	B[G1831-MSD1	B072117A.seq-33	07/22/17 10:17
15-MW1_170721	B[G1832-DUP1	B072117A.seq-34	07/22/17 10:34
15-MW1_170721	B[G1832-MS1	B072117A.seq-35	07/22/17 10:52
15-MW1_170721	B[G1832-MSD1	B072117A.seq-36	07/22/17 11:10

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-300.0

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1713199	Instrument:	IC2
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1713199-CCV3	B072117A.seq-37	07/22/17 11:28
Calibration Blank	1713199-CCB3	B072117A.seq-38	07/22/17 11:46
15-MW1_170721	1720121-01RE1	B072117A.seq-39	07/22/17 12:03
27MW04_170721	1720121-07RE1	B072117A.seq-43	07/22/17 13:15
Calibration Check	1713199-CCV4	B072117A.seq-46	07/22/17 14:08
Calibration Blank	1713199-CCB4	B072117A.seq-47	07/22/17 14:26
Calibration Check	1713199-CCV5	B072117A.seq-48	07/23/17 18:52
Calibration Blank	1713199-CCB5	B072117A.seq-49	07/23/17 19:10
Calibration Check	1713199-CCV6	B072117A.seq-51	07/23/17 19:45
Calibration Blank	1713199-CCB6	B072117A.seq-52	07/23/17 20:03

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BLANKS
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: IC2
Project: Alameda
Sequence: 1713199
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1713199-ICB1	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713199-CCB1	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713199-CCB2	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713199-CCB3	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713199-CCB4	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713199-CCB5	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0
1713199-CCB6	Chloride	0.0000	0.077		0.50	mg/L	U	EPA-300.0
	Nitrate as NO3	0.0000	0.092		0.44	mg/L	U	EPA-300.0
	Nitrate as N	0.0000	0.021		0.10	mg/L	U	EPA-300.0
	Sulfate	0.0000	0.13		1.0	mg/L	U	EPA-300.0

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL AND CONTINUING CALIBRATION CHECK

EPA-300.0

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: IC2
Control Limt: +/- 10.00%

SDG: 17-20121
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1713199

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1713199-ICV1	Chloride	50.000	49.478	99.0	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.873	98.8	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9410	98.8	mg/L	EPA-300.0
	Sulfate	100.00	98.435	98.4	mg/L	EPA-300.0
1713199-CCV1	Chloride	50.000	50.292	101	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.103	99.9	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9930	99.9	mg/L	EPA-300.0
	Sulfate	100.00	99.538	99.5	mg/L	EPA-300.0
1713199-CCV2	Chloride	50.000	51.038	102	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.625	102	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.1110	102	mg/L	EPA-300.0
	Sulfate	100.00	101.15	101	mg/L	EPA-300.0
1713199-CCV3	Chloride	50.000	49.829	99.7	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.068	99.7	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9850	99.7	mg/L	EPA-300.0
	Sulfate	100.00	98.943	98.9	mg/L	EPA-300.0
1713199-CCV4	Chloride	50.000	50.197	100	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.076	99.7	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9870	99.7	mg/L	EPA-300.0
	Sulfate	100.00	100.04	100	mg/L	EPA-300.0
1713199-CCV5	Chloride	50.000	51.308	103	mg/L	EPA-300.0
	Nitrate as NO3	22.134	22.572	102	mg/L	EPA-300.0
	Nitrate as N	5.0000	5.0990	102	mg/L	EPA-300.0
	Sulfate	100.00	101.91	102	mg/L	EPA-300.0
1713199-CCV6	Chloride	50.000	49.866	99.7	mg/L	EPA-300.0
	Nitrate as NO3	22.134	21.935	99.1	mg/L	EPA-300.0
	Nitrate as N	5.0000	4.9550	99.1	mg/L	EPA-300.0
	Sulfate	100.00	99.573	99.6	mg/L	EPA-300.0

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

HOLDING TIME SUMMARY
EPA-300.0

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
15-MW1_170721	07/21/17 08:30	07/21/17 21:30	07/22/17 00:00	1.15	2.00	07/22/17 12:03	1.15	2.00	
15-MW1_170721	07/21/17 08:30	07/21/17 21:30	07/22/17 00:00	1.00	28.00	07/22/17 12:03	1.00	28.00	
15-MW3_170721	07/21/17 09:40	07/21/17 21:30	07/22/17 00:00	0.75	2.00	07/22/17 03:44	0.75	2.00	
15-MW3_170721	07/21/17 09:40	07/21/17 21:30	07/22/17 00:00	1.00	28.00	07/22/17 03:44	1.00	28.00	
27MW03_170721	07/21/17 09:20	07/21/17 21:30	07/22/17 00:00	0.78	2.00	07/22/17 04:02	0.78	2.00	
27MW03_170721	07/21/17 09:20	07/21/17 21:30	07/22/17 00:00	1.00	28.00	07/22/17 04:02	1.00	28.00	
27MW04_170721	07/21/17 11:45	07/21/17 21:30	07/22/17 00:00	1.00	28.00	07/22/17 05:31	1.00	28.00	
27MW04_170721	07/21/17 11:45	07/21/17 21:30	07/22/17 00:00	0.74	2.00	07/22/17 05:31	0.74	2.00	
27MW04_170721	07/21/17 11:45	07/21/17 21:30	07/22/17 00:00	1.00	28.00	07/22/17 13:15	1.00	28.00	
27MW10_170721	07/21/17 10:26	07/21/17 21:30	07/22/17 00:00	1.00	28.00	07/22/17 05:49	1.00	28.00	
27MW10_170721	07/21/17 10:26	07/21/17 21:30	07/22/17 00:00	0.81	2.00	07/22/17 05:49	0.81	2.00	
27MW11_170721	07/21/17 10:50	07/21/17 21:30	07/22/17 00:00	0.80	2.00	07/22/17 06:07	0.80	2.00	
27MW11_170721	07/21/17 10:50	07/21/17 21:30	07/22/17 00:00	1.00	28.00	07/22/17 06:07	1.00	28.00	
27MW12_170721	07/21/17 11:35	07/21/17 21:30	07/22/17 00:00	0.78	2.00	07/22/17 06:25	0.78	2.00	
27MW12_170721	07/21/17 11:35	07/21/17 21:30	07/22/17 00:00	1.00	28.00	07/22/17 06:25	1.00	28.00	
M14-15_170721	07/21/17 08:20	07/21/17 21:30	07/22/17 00:00	0.93	2.00	07/22/17 06:43	0.93	2.00	
M14-15_170721	07/21/17 08:20	07/21/17 21:30	07/22/17 00:00	1.00	28.00	07/22/17 06:43	1.00	28.00	
M14-16_170721	07/21/17 09:15	07/21/17 21:30	07/22/17 00:00	1.00	28.00	07/22/17 07:01	1.00	28.00	
M14-16_170721	07/21/17 09:15	07/21/17 21:30	07/22/17 00:00	0.91	2.00	07/22/17 07:01	0.91	2.00	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

27EW-12_170721	07/21/17 12:56	07/21/17 21:30	07/22/17 00:00	1.00	28.00	07/22/17 07:18	1.00	28.00	
27EW-12_170721	07/21/17 12:56	07/21/17 21:30	07/22/17 00:00	0.77	2.00	07/22/17 07:18	0.77	2.00	
27MW13_170721	07/21/17 13:10	07/21/17 21:30	07/22/17 00:00	0.77	2.00	07/22/17 07:36	0.77	2.00	
27MW13_170721	07/21/17 13:10	07/21/17 21:30	07/22/17 00:00	1.00	28.00	07/22/17 07:36	1.00	28.00	

* Holding time not met

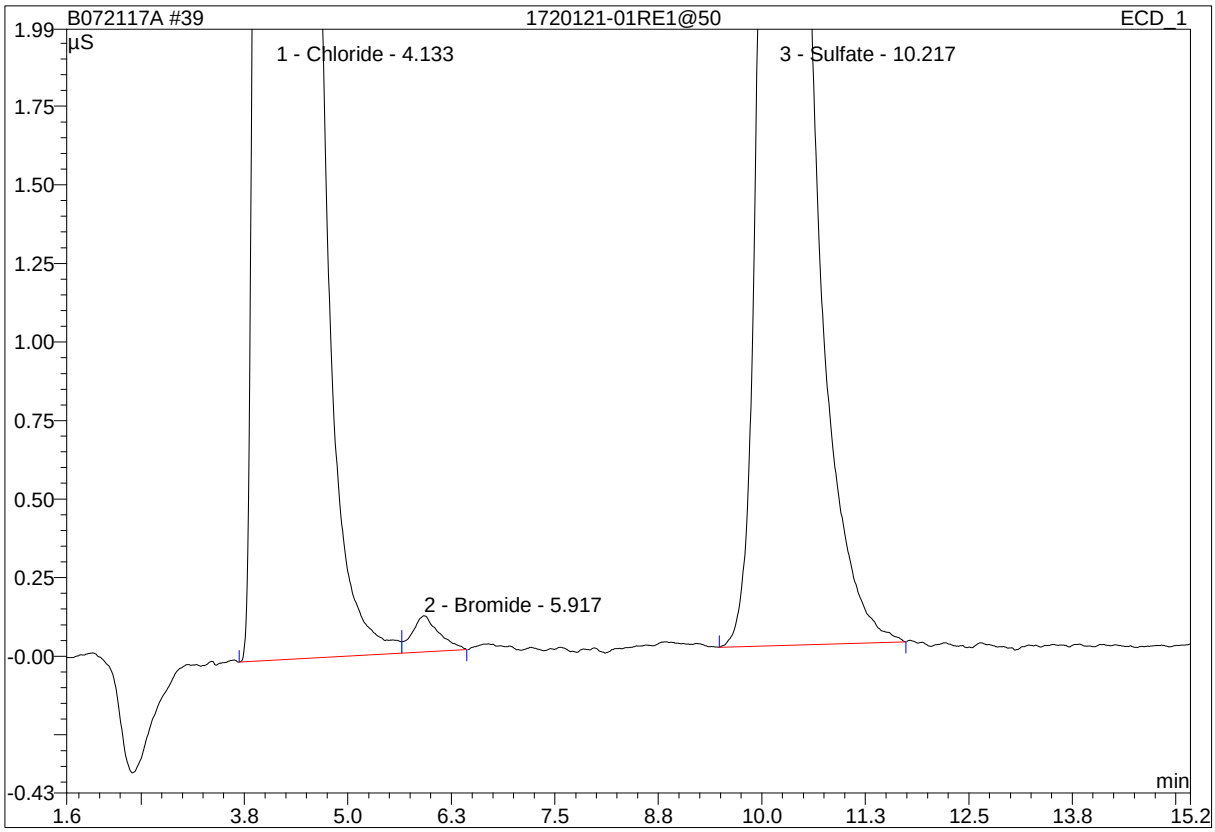
Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument IC2

Raw Data - Samples

39 1720121-01RE1@50

Sample Name:	**1720121-01RE1@50**	*Injection Volume:*	**20.0**
Vial Number:	**31**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 12:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



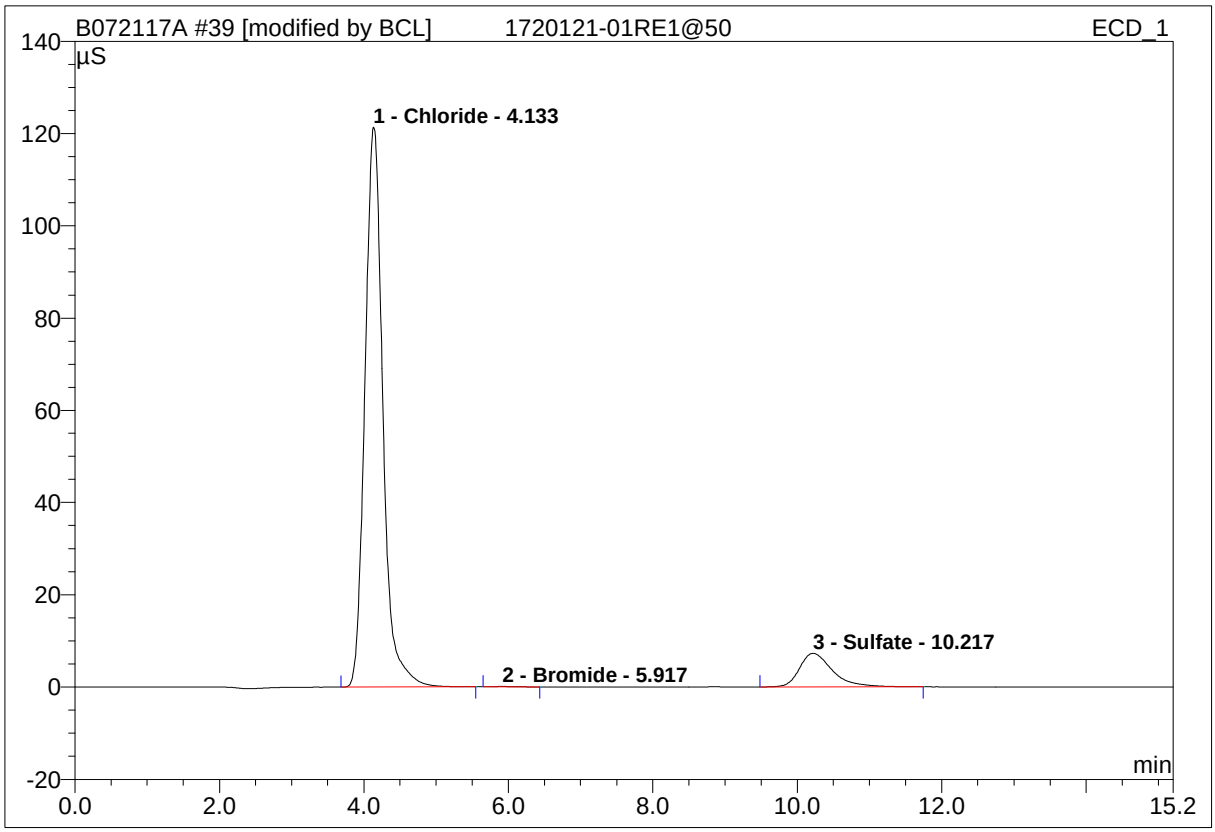
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.13	Chloride	121.378	34.896	89.95	117.504	BM
2	5.92	Bromide	0.115	0.043	0.11	0.587	MB
3	10.22	Sulfate	7.279	3.855	9.94	20.909	BMB
Total:			128.771	38.794	100.00	138.999	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

39 1720121-01RE1@50

Sample Name:	**1720121-01RE1@50**	*Injection Volume:*	**20.0**
Vial Number:	**31**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 12:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



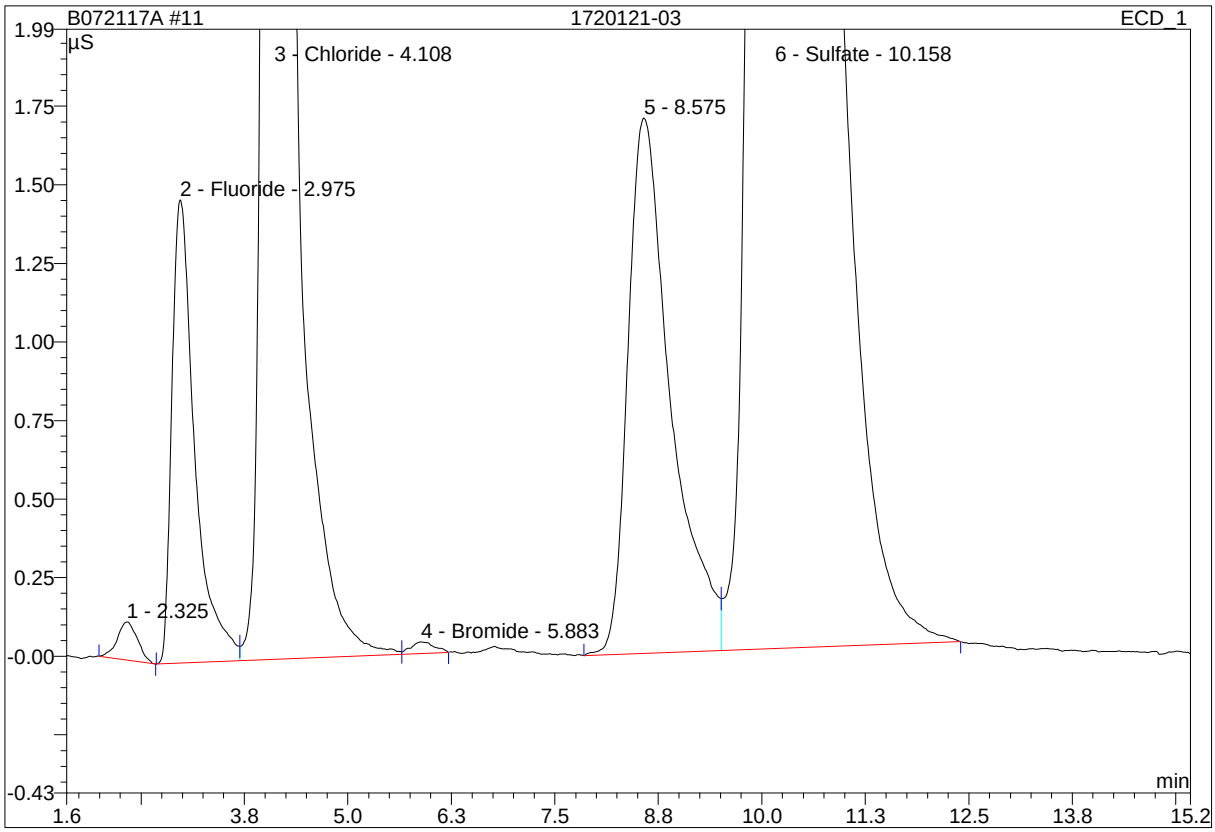
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.13	Chloride	121.368	34.852	89.97	117.374	BMB*
2	5.92	Bromide	0.091	0.029	0.07	0.403	BMB*
3	10.22	Sulfate	7.279	3.855	9.95	20.909	BMB
Total:			128.737	38.736	100.00	138.686	

modified on: 07.23.17 18:07 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

11 1720121-03

Sample Name:	**1720121-03**	*Injection Volume:*	**20.0**
Vial Number:	**31**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 3:44**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



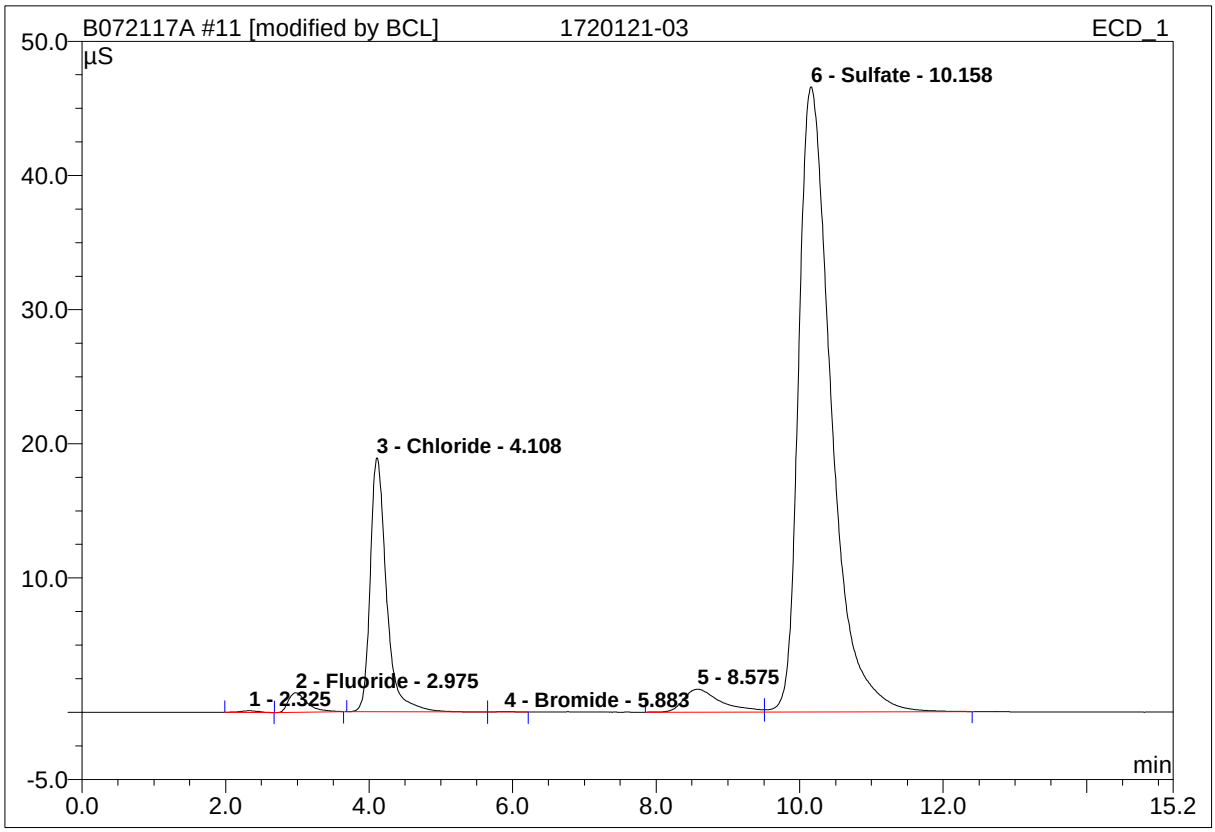
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.33	n.a.	0.121	0.035	0.11	n.a.	BMB
2	2.98	Fluoride	1.474	0.473	1.53	1.578	BM
3	4.11	Chloride	18.968	5.020	16.23	19.206	M
4	5.88	Bromide	0.037	0.012	0.04	0.183	MB
5	8.58	n.a.	1.704	1.024	3.31	n.a.	BM
6	10.16	Sulfate	46.588	24.370	78.78	122.346	MB
Total:			68.891	30.934	100.00	143.313	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

11 1720121-03

Sample Name:	**1720121-03**	*Injection Volume:*	**20.0**
Vial Number:	**31**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 3:44**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



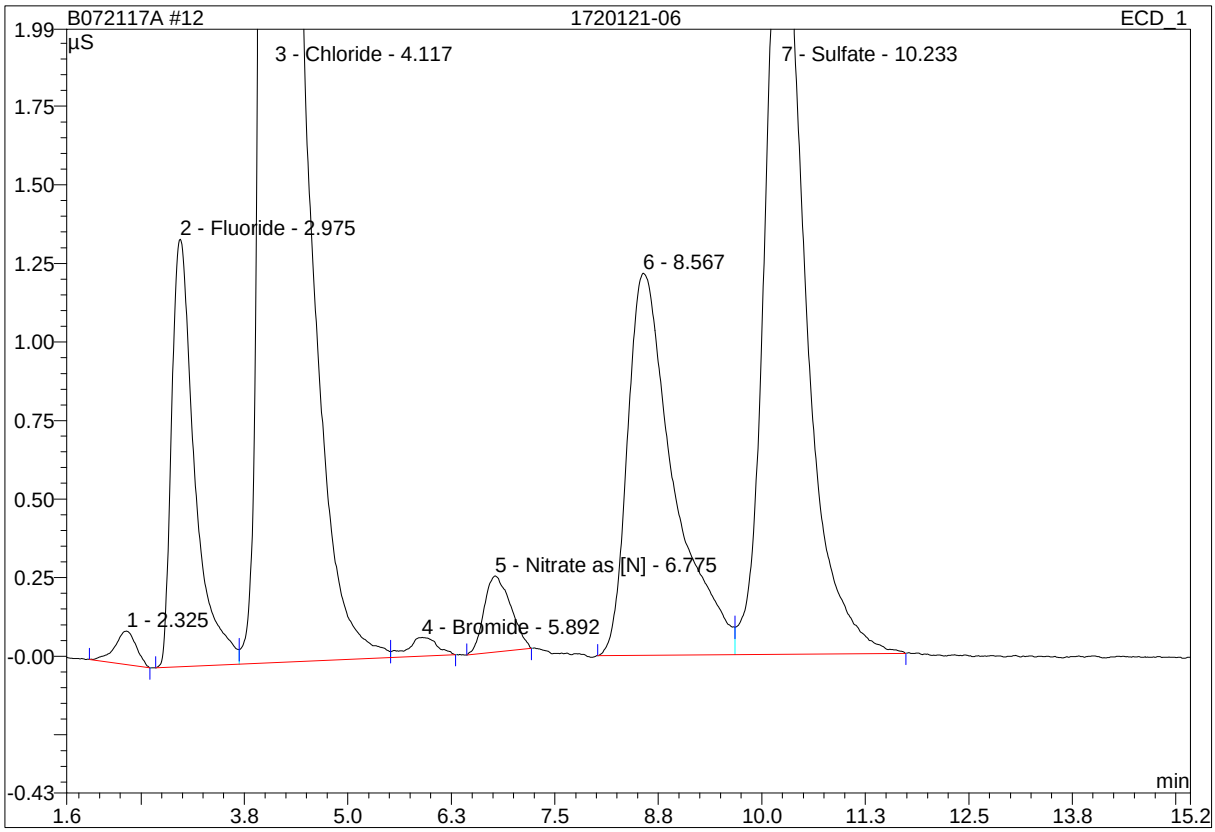
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.33	n.a.	0.121	0.035	0.11	n.a.	BMB
2	2.98	Fluoride	1.458	0.445	1.44	1.488	BMB*
3	4.11	Chloride	18.930	4.966	16.10	19.002	BM *
4	5.88	Bromide	0.031	0.009	0.03	0.145	MB*
5	8.58	n.a.	1.704	1.024	3.32	n.a.	BM
6	10.16	Sulfate	46.588	24.370	79.00	122.346	MB
Total:			68.831	30.848	100.00	142.981	

modified on: 07.23.17 18:01 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

12 1720121-06

Sample Name:	**1720121-06**	*Injection Volume:*	**20.0**
Vial Number:	**29**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 4:02**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.33	n.a.	0.107	0.032	0.25	n.a.	BMB
2	2.98	Fluoride	1.361	0.441	3.37	1.476	BM
3	4.12	Chloride	40.466	10.309	78.83	38.435	M
4	5.89	Bromide	0.059	0.024	0.19	0.344	MB
5	6.78	Nitrate as [N]	0.242	0.090	0.69	0.182	BMB
6	8.57	n.a.	1.216	0.784	6.00	n.a.	BM
7	10.23	Sulfate	2.536	1.396	10.67	7.769	MB
Total:			45.986	13.077	100.00	48.206	

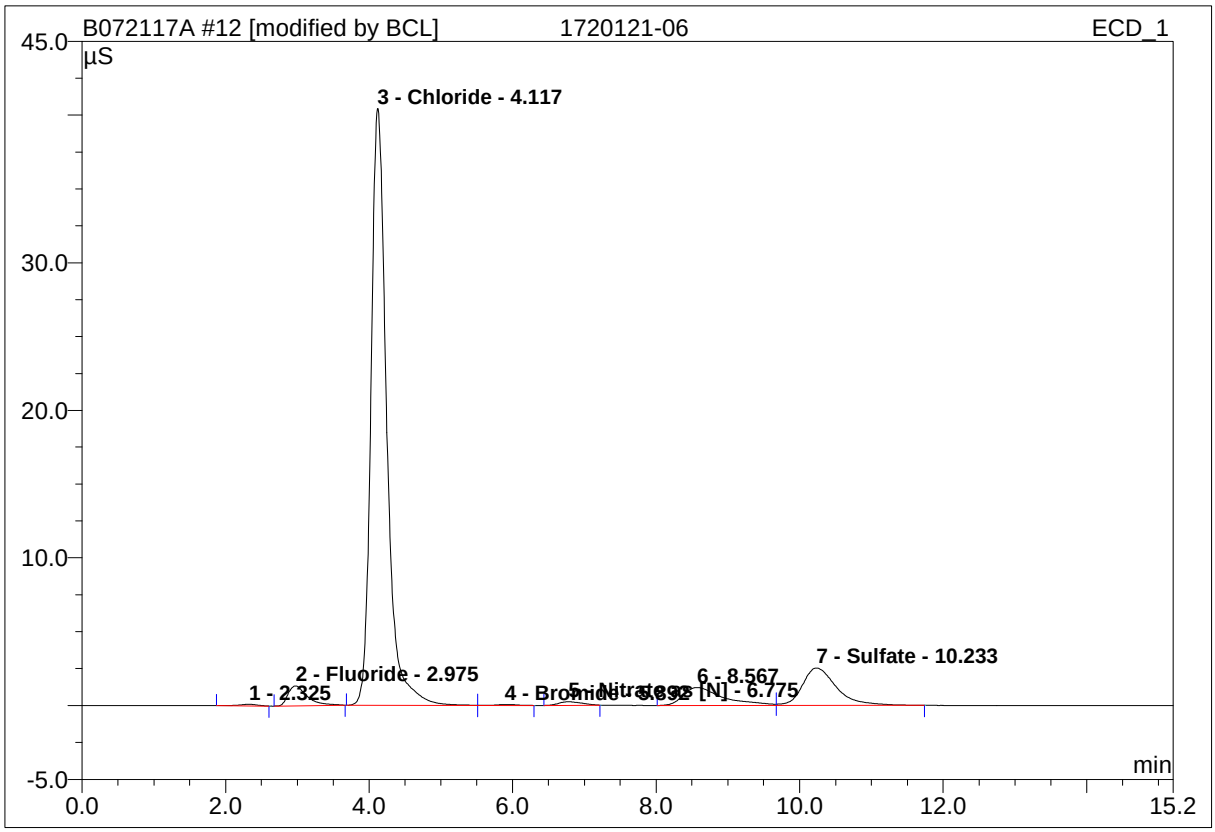
modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider

BMB = This peak type is for resolved peaks.

12 1720121-06

Sample Name:	**1720121-06**	*Injection Volume:*	**20.0**
Vial Number:	**29**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 4:02**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.33	n.a.	0.107	0.032	0.25	n.a.	BMB
2	2.98	Fluoride	1.346	0.416	3.21	1.398	BMB*
3	4.12	Chloride	40.427	10.254	78.92	38.239	BM *
4	5.89	Bromide	0.052	0.019	0.15	0.273	MB*
5	6.78	Nitrate as [N]	0.242	0.090	0.69	0.182	BMB
6	8.57	n.a.	1.216	0.784	6.04	n.a.	BM
7	10.23	Sulfate	2.536	1.396	10.74	7.769	MB
Total:			45.925	12.992	100.00	47.862	

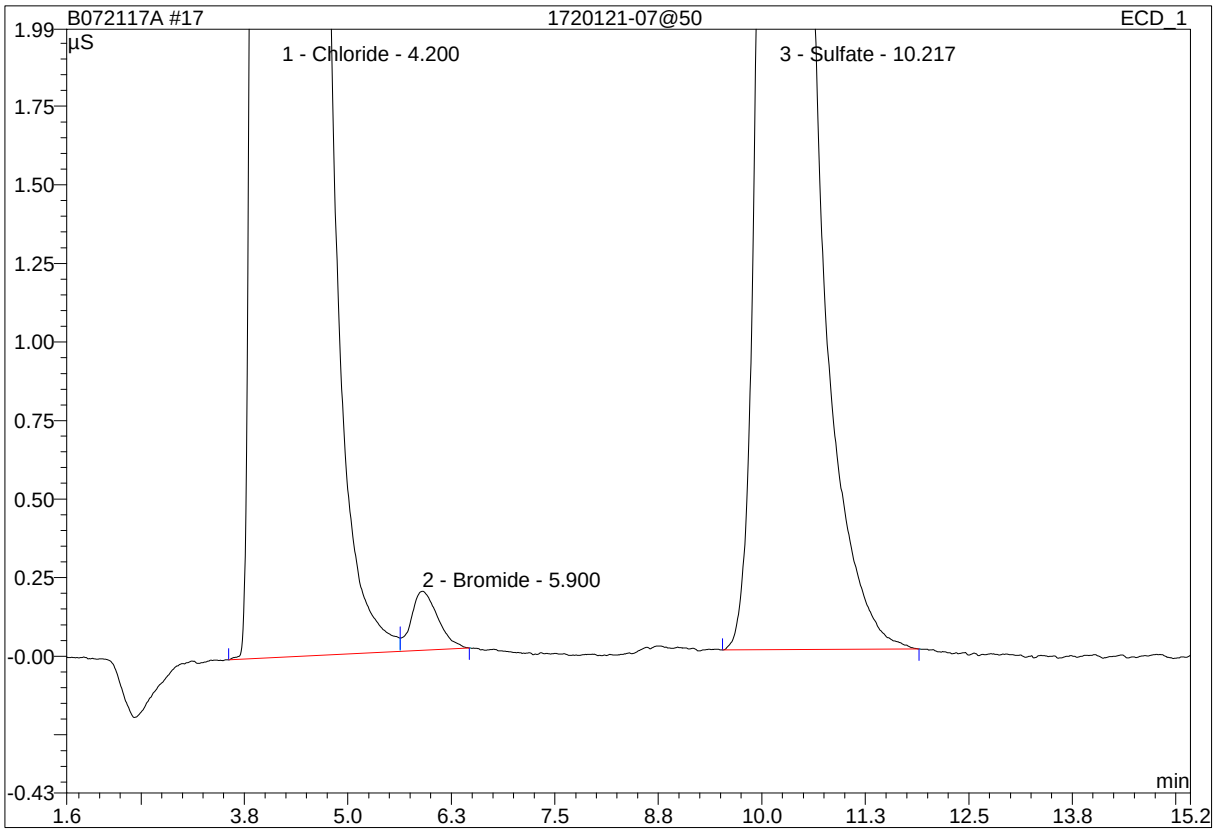
modified on: 07.23.17 18:01 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider

BMB = This peak type is for resolved peaks.

17 1720121-07@50

Sample Name:	**1720121-07@50**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 5:31**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



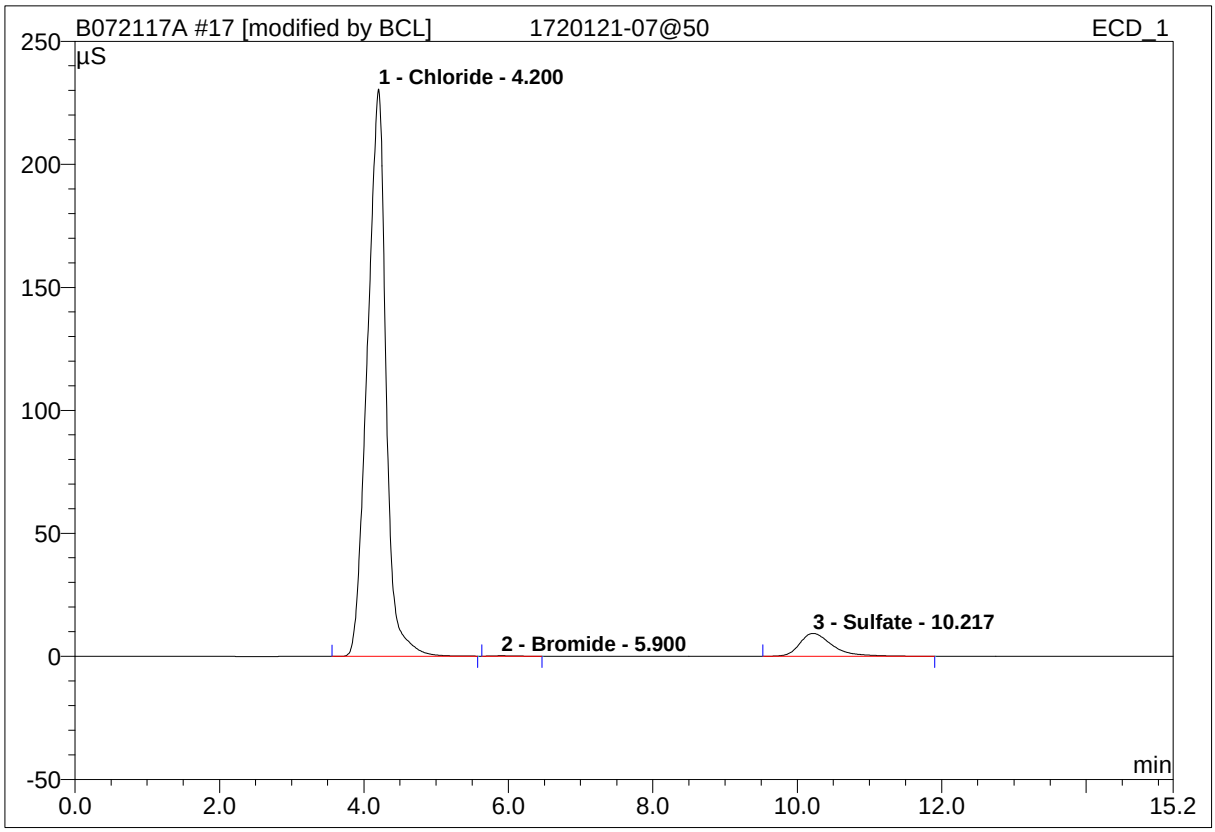
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.20	Chloride	230.576	68.551	93.30	207.763	BM
2	5.90	Bromide	0.188	0.070	0.10	0.930	MB
3	10.22	Sulfate	9.275	4.854	6.61	26.178	BMB
Total:			240.039	73.475	100.00	234.871	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

17 1720121-07@50

Sample Name:	**1720121-07@50**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 5:31**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



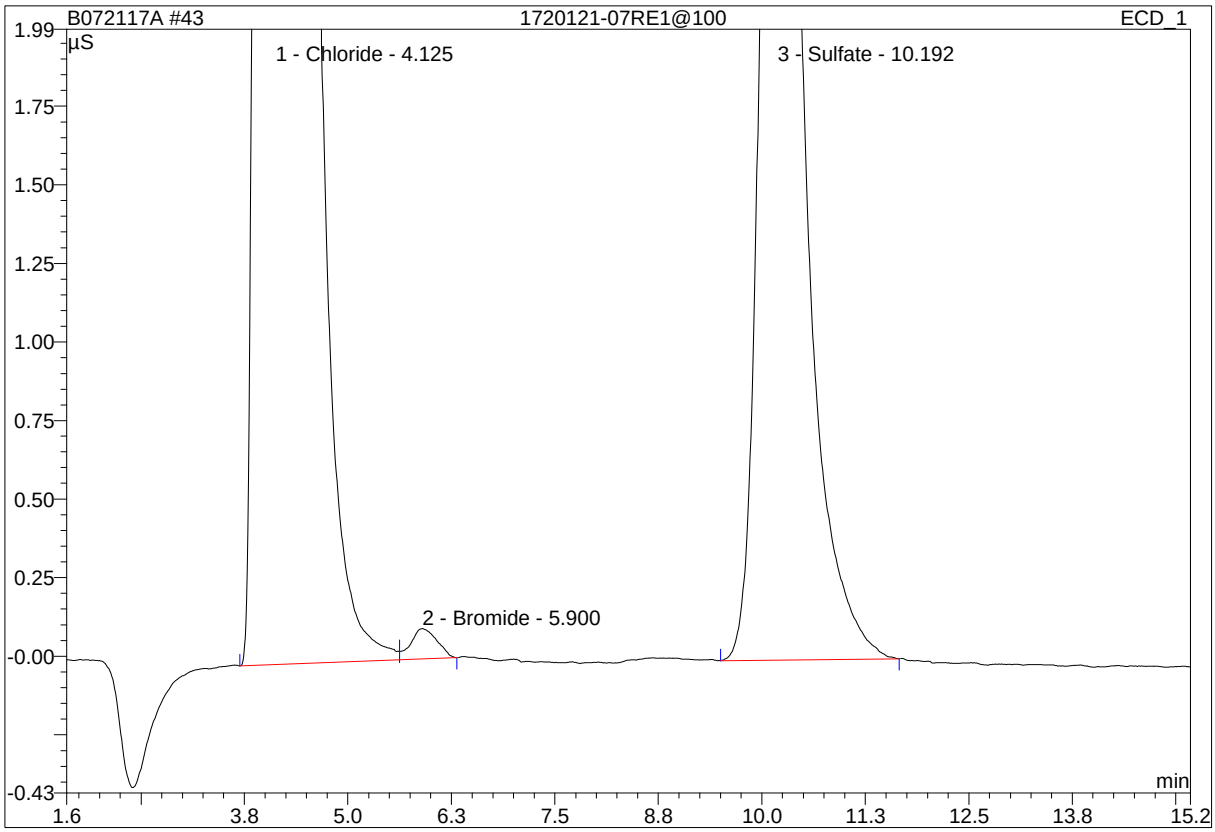
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.20	Chloride	230.561	68.500	93.32	207.636	BMB*
2	5.90	Bromide	0.159	0.053	0.07	0.706	BMB*
3	10.22	Sulfate	9.275	4.854	6.61	26.178	BMB
Total:			239.995	73.406	100.00	234.521	

modified on: 07.23.17 18:02 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

43 1720121-07RE1@100

Sample Name:	**1720121-07RE1@100**	*Injection Volume:*	**20.0**
Vial Number:	**33**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 13:15**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



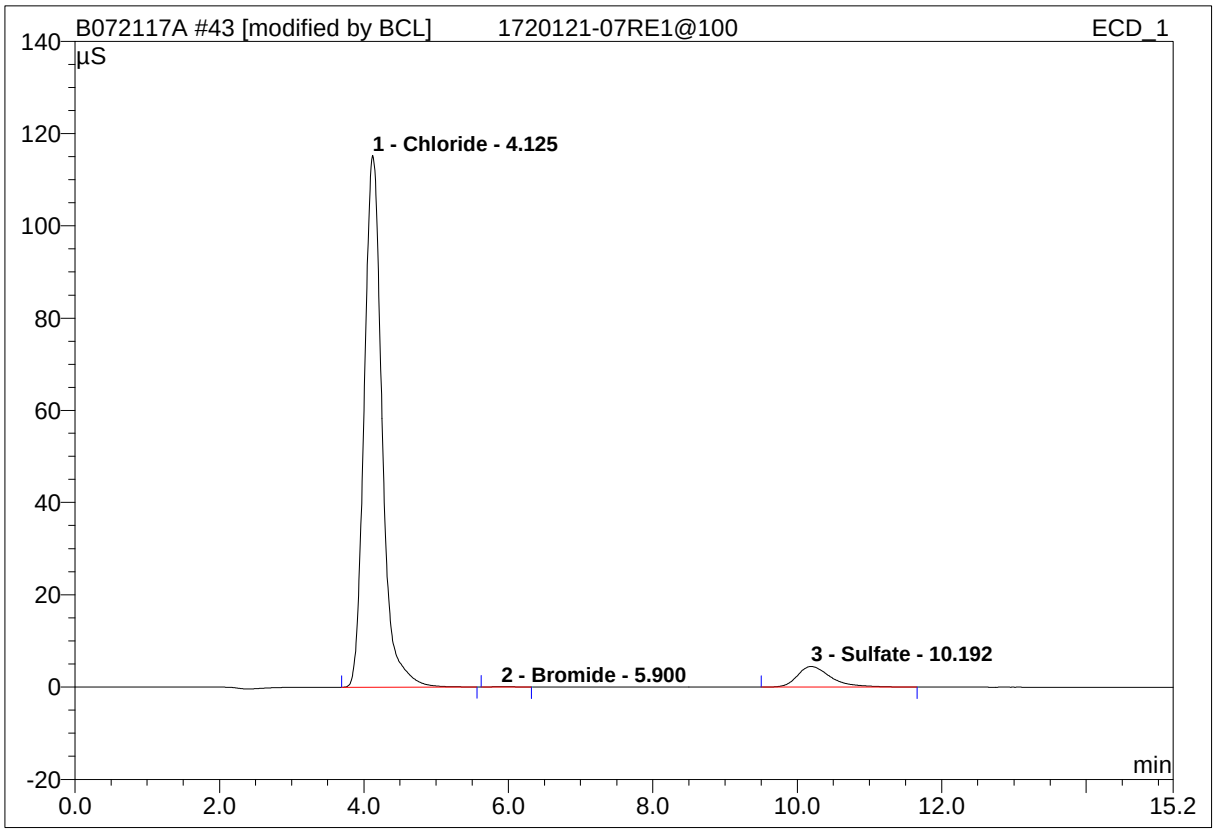
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.13	Chloride	115.276	33.021	93.09	111.955	BM
2	5.90	Bromide	0.097	0.035	0.10	0.485	MB
3	10.19	Sulfate	4.478	2.416	6.81	13.250	BMB
Total:			119.851	35.473	100.00	125.690	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

43 1720121-07RE1@100

Sample Name:	**1720121-07RE1@100**	*Injection Volume:*	**20.0**
Vial Number:	**33**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 13:15**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



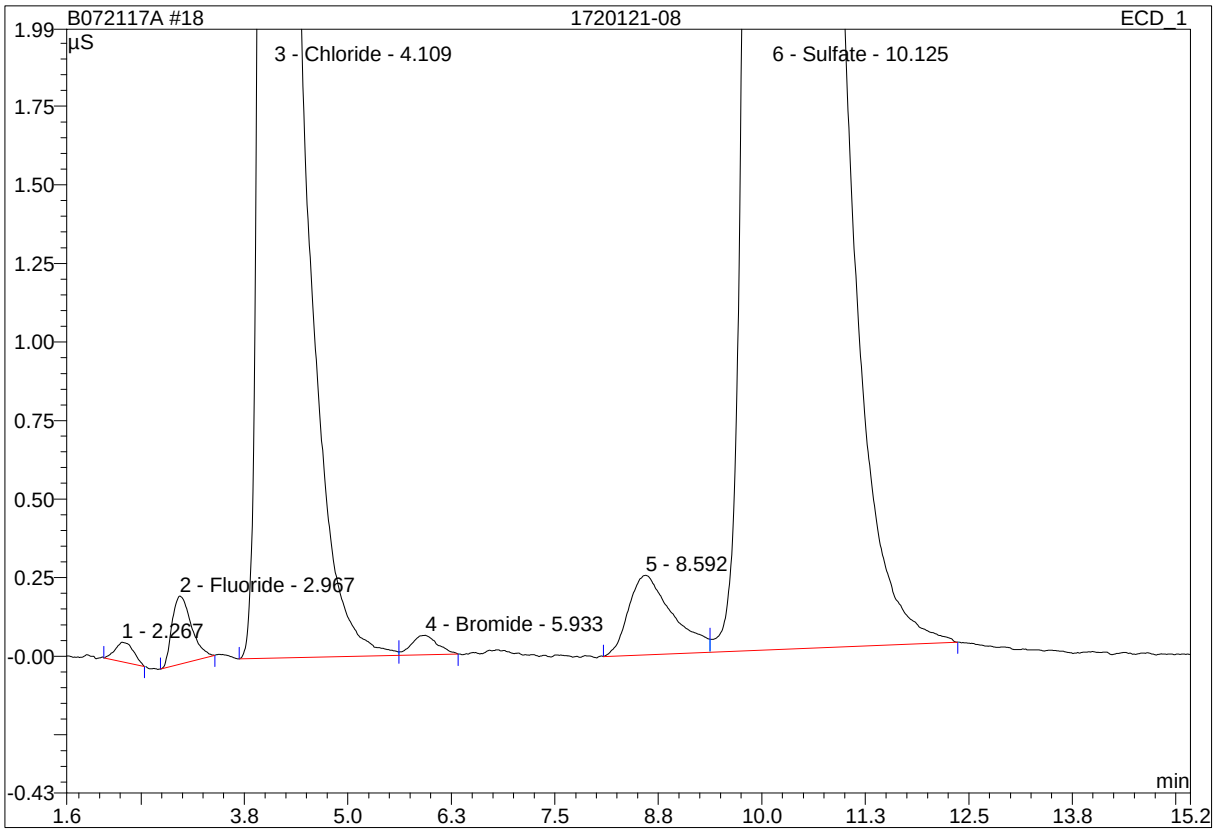
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.13	Chloride	115.269	32.992	93.11	111.867	BMB*
2	5.90	Bromide	0.081	0.026	0.07	0.365	BMB*
3	10.19	Sulfate	4.478	2.416	6.82	13.250	BMB
Total:			119.828	35.434	100.00	125.483	

modified on: 07.23.17 18:08 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

18 1720121-08

Sample Name:	**1720121-08**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 5:49**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



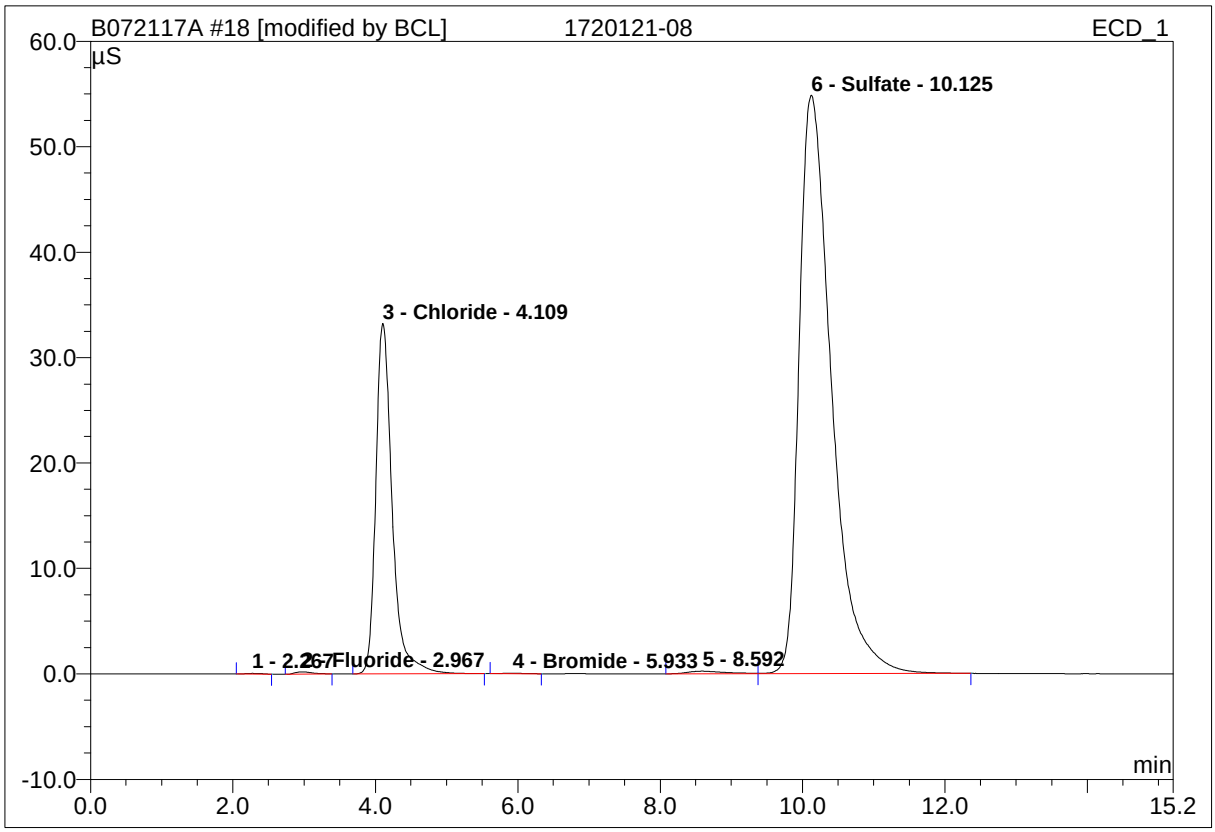
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.27	n.a.	0.062	0.016	0.04	n.a.	BMB
2	2.97	Fluoride	0.216	0.059	0.15	0.226	BMB
3	4.11	Chloride	33.256	8.882	23.42	33.342	BM
4	5.93	Bromide	0.062	0.023	0.06	0.323	MB
5	8.59	n.a.	0.253	0.156	0.41	n.a.	BM
6	10.13	Sulfate	54.852	28.793	75.91	142.605	MB
Total:			88.702	37.928	100.00	176.495	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

18 1720121-08

Sample Name:	**1720121-08**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 5:49**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



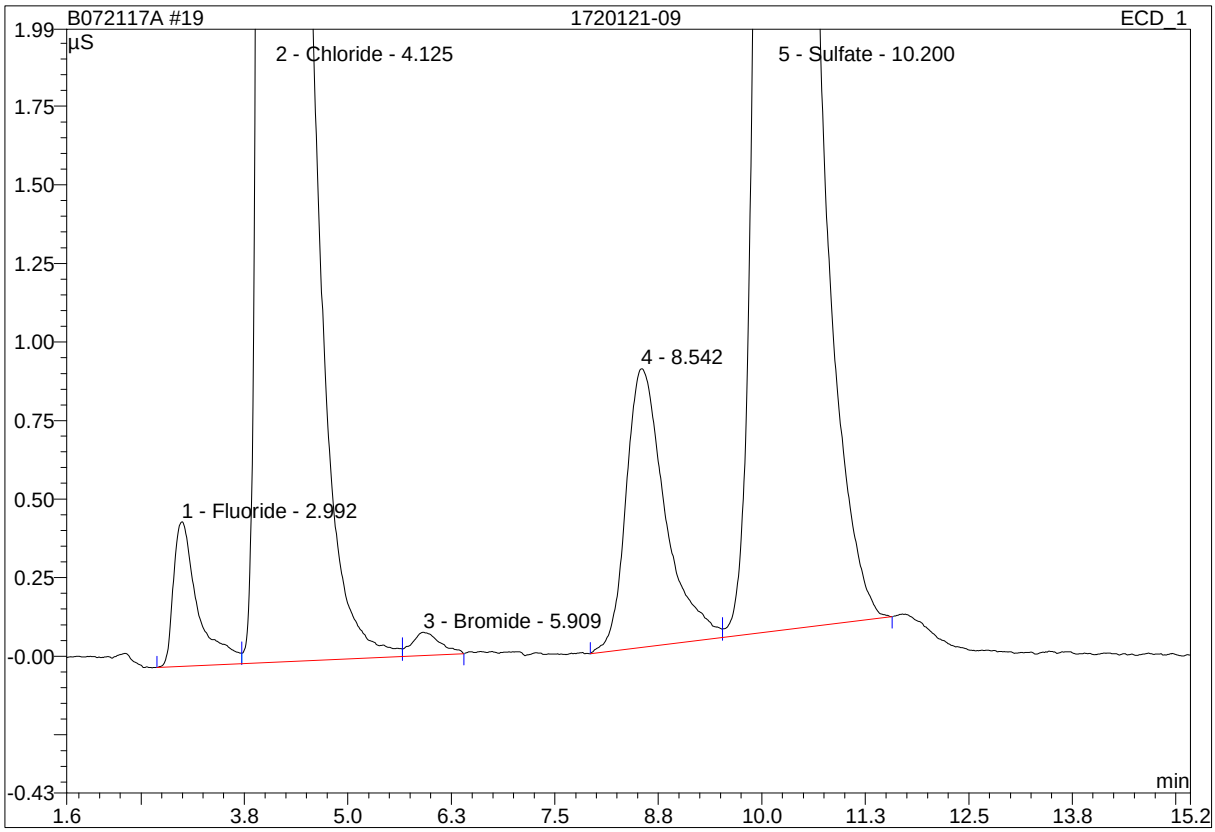
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.27	n.a.	0.062	0.016	0.04	n.a.	BMB
2	2.97	Fluoride	0.216	0.059	0.16	0.226	BMB
3	4.11	Chloride	33.252	8.865	23.39	33.283	BMB*
4	5.93	Bromide	0.056	0.019	0.05	0.273	BMB*
5	8.59	n.a.	0.253	0.156	0.41	n.a.	BM
6	10.13	Sulfate	54.852	28.793	75.96	142.605	MB
Total:			88.692	37.908	100.00	176.387	

modified on: 07.23.17 18:02 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

19 1720121-09

Sample Name:	**1720121-09**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 6:07**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



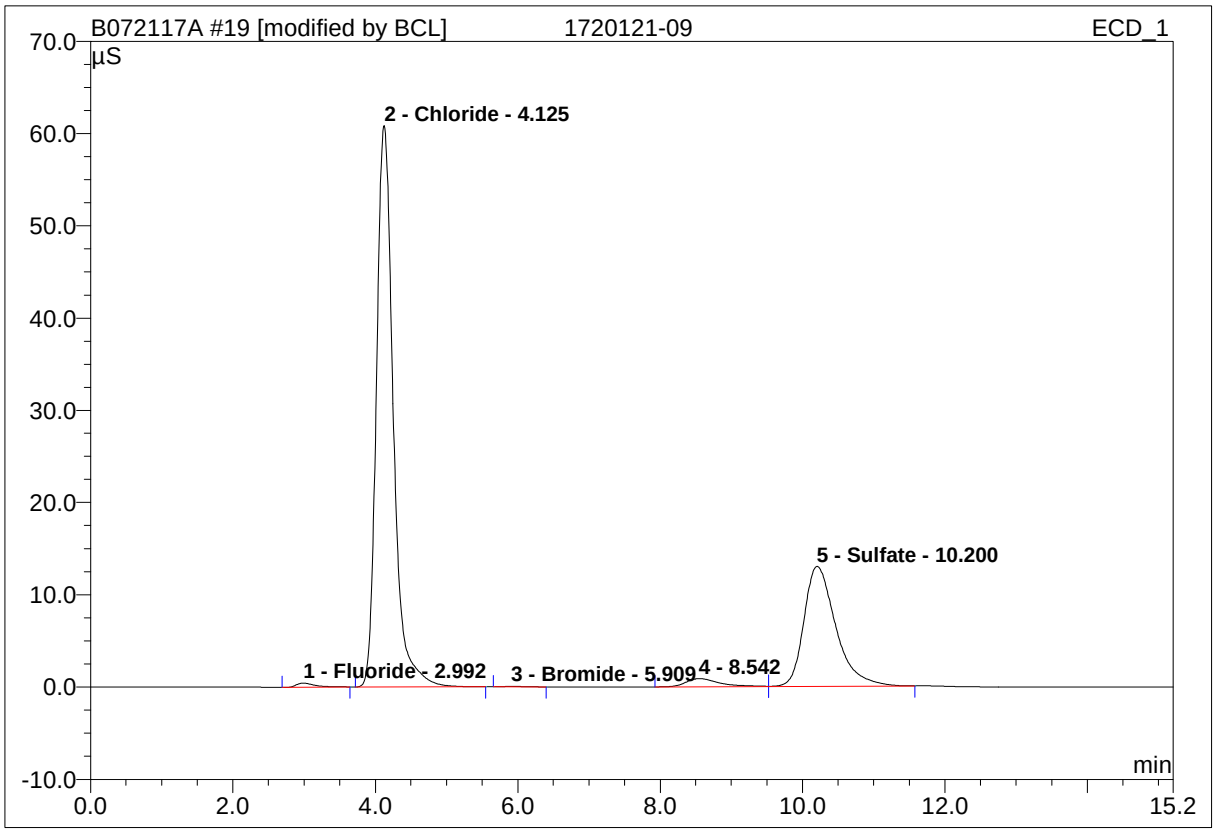
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.99	Fluoride	0.460	0.157	0.65	0.554	BM
2	4.13	Chloride	60.869	16.740	69.35	60.602	M
3	5.91	Bromide	0.074	0.029	0.12	0.409	MB
4	8.54	n.a.	0.887	0.486	2.01	n.a.	BM
5	10.20	Sulfate	12.984	6.727	27.87	35.955	MB
Total:			75.274	24.140	100.00	97.520	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

19 1720121-09

Sample Name:	**1720121-09**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 6:07**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



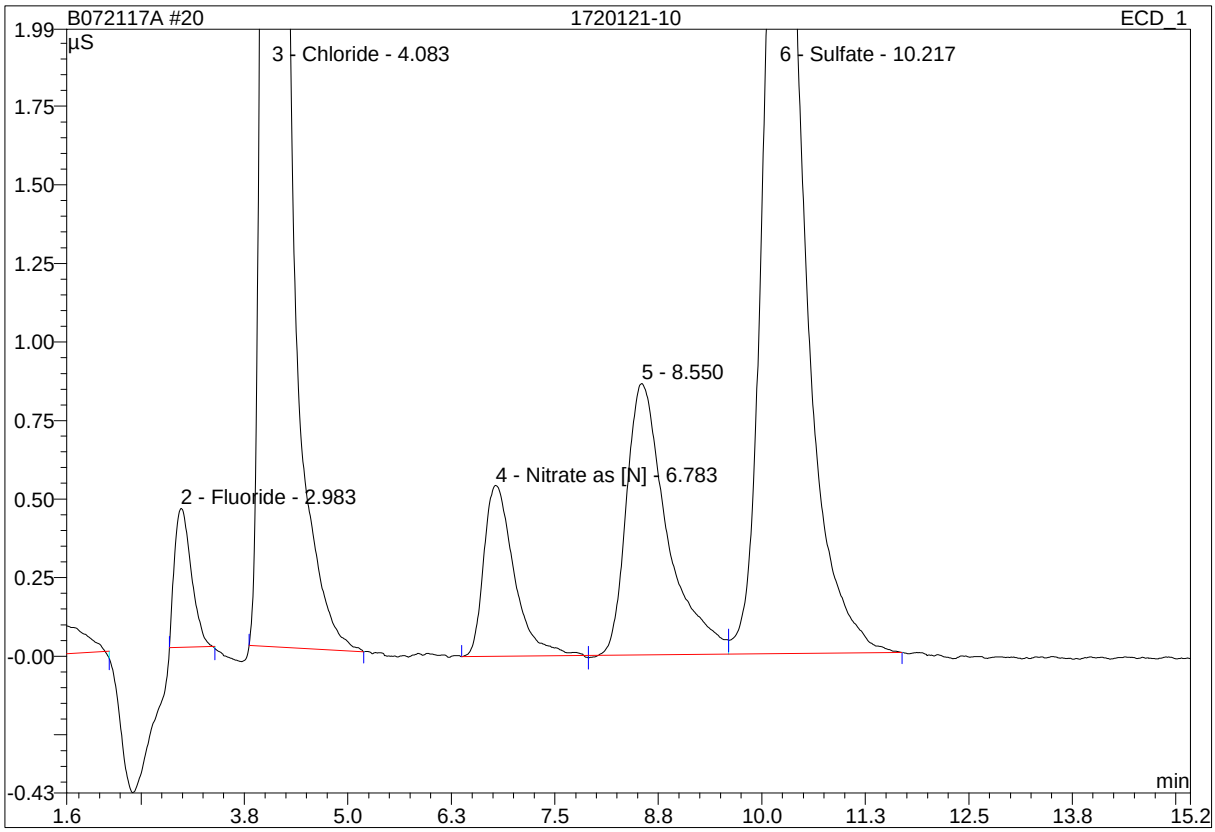
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.99	Fluoride	0.448	0.136	0.56	0.482	BMB*
2	4.13	Chloride	60.837	16.683	69.36	60.409	BMB*
3	5.91	Bromide	0.058	0.021	0.09	0.295	BMB*
4	8.54	n.a.	0.887	0.486	2.02	n.a.	BM
5	10.20	Sulfate	12.984	6.727	27.97	35.955	MB
Total:			75.214	24.052	100.00	97.142	

modified on: 07.23.17 18:02 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

20 1720121-10

Sample Name:	**1720121-10**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 6:25**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



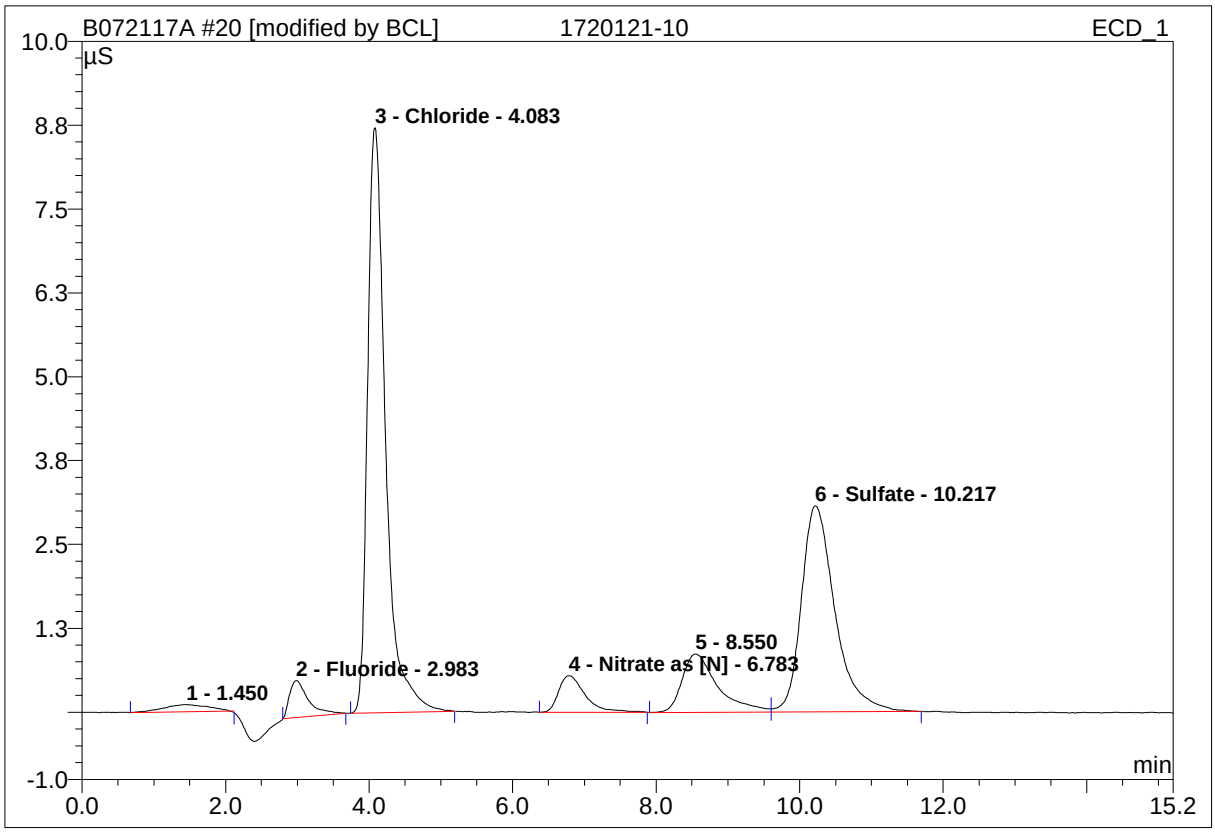
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	1.45	n.a.	0.108	0.079	1.56	n.a.	BM
2	2.98	Fluoride	0.442	0.104	2.06	0.378	BM
3	4.08	Chloride	8.680	2.495	49.33	9.658	BMB
4	6.78	Nitrate as [N]	0.544	0.231	4.57	0.463	BM
5	8.55	n.a.	0.864	0.490	9.68	n.a.	M
6	10.22	Sulfate	3.064	1.659	32.80	9.186	MB
Total:			13.701	5.058	100.00	19.684	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

20 1720121-10

Sample Name:	**1720121-10**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 6:25**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



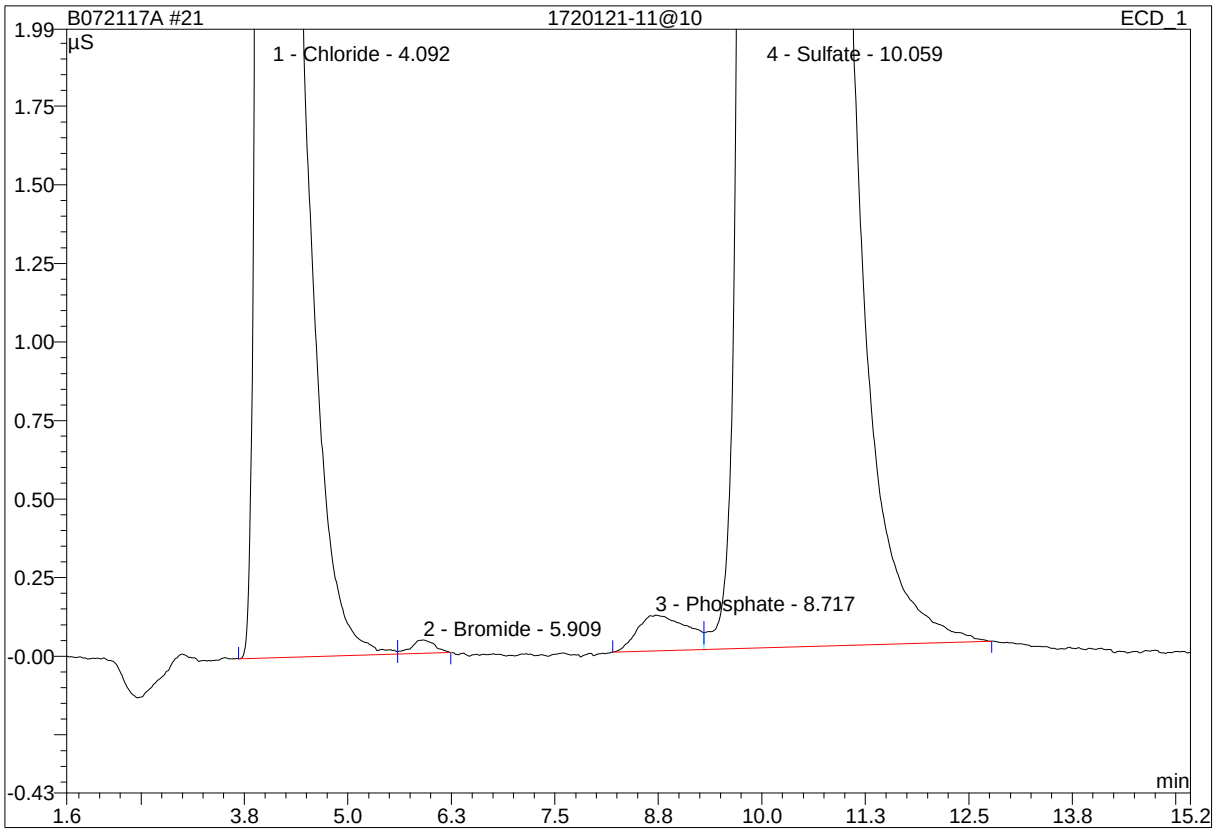
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	1.45	n.a.	0.108	0.079	1.53	n.a.	BM
2	2.98	Fluoride	0.549	0.167	3.23	0.587	BMB*
3	4.08	Chloride	8.718	2.529	48.89	9.788	BMB*
4	6.78	Nitrate as [N]	0.545	0.235	4.55	0.471	BMB*
5	8.55	n.a.	0.870	0.499	9.65	n.a.	BM *
6	10.22	Sulfate	3.067	1.663	32.15	9.209	MB*
Total:			13.857	5.173	100.00	20.055	

modified on: 07.23.17 18:03 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

21 1720121-11@10

Sample Name:	**1720121-11@10**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 6:43**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



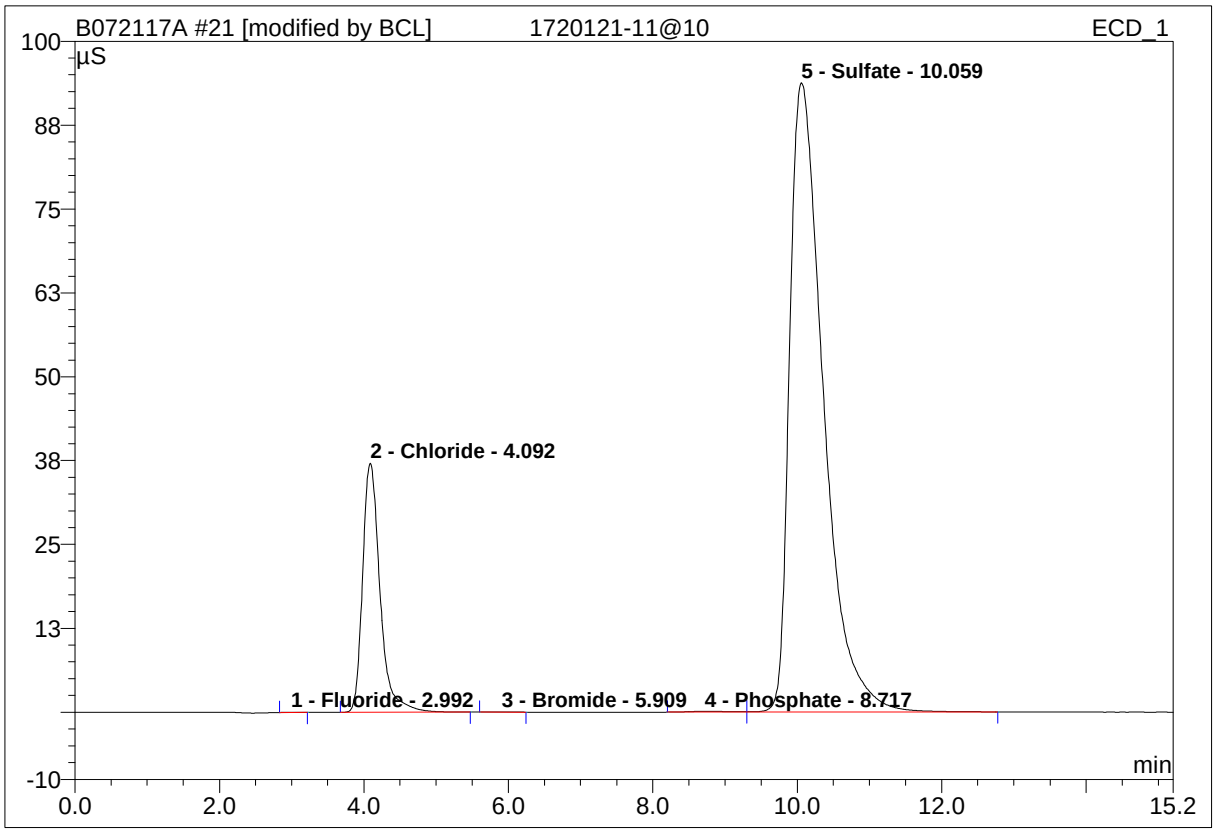
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.09	Chloride	37.113	10.400	17.00	38.759	BM
2	5.91	Bromide	0.042	0.014	0.02	0.206	MB
3	8.72	Phosphate	0.114	0.079	0.13	n.a.	BM
4	10.06	Sulfate	93.796	50.702	82.85	236.493	MB
Total:			131.065	61.195	100.00	275.458	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

21 1720121-11@10

Sample Name:	**1720121-11@10**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 6:43**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



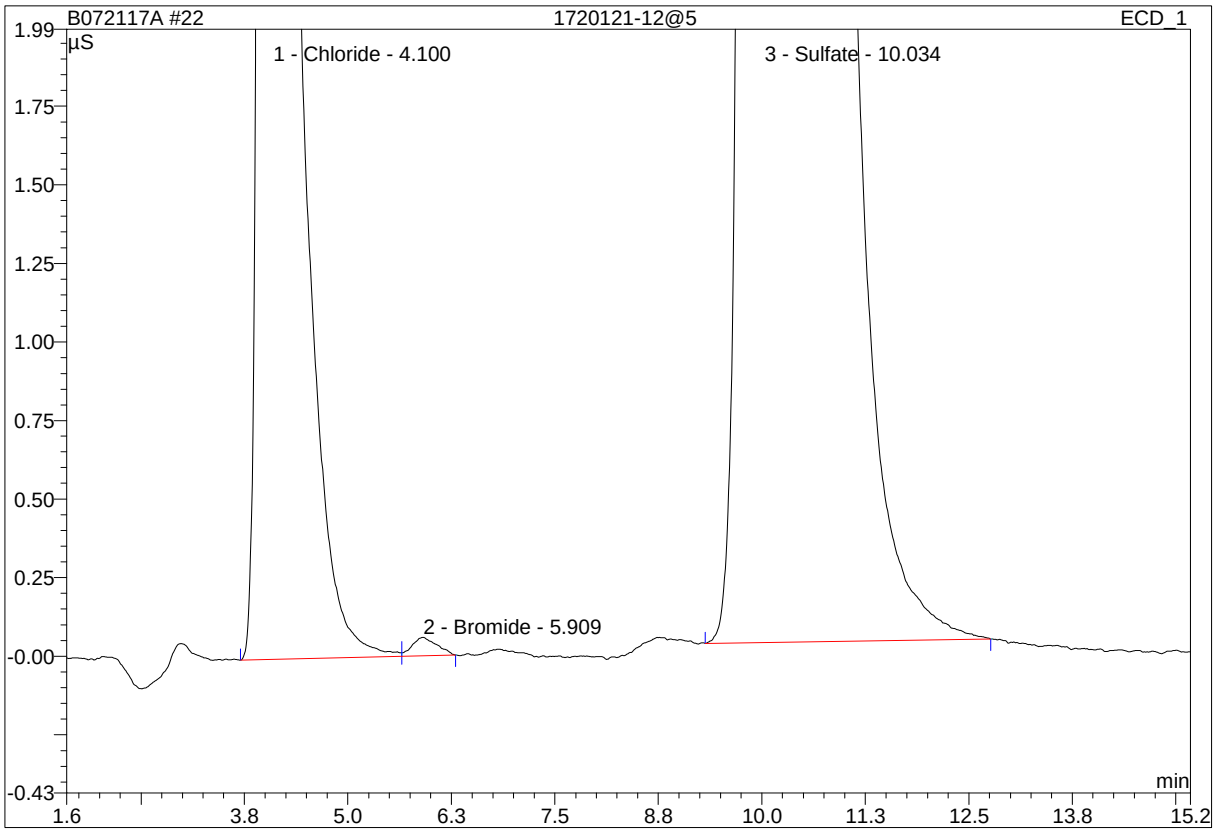
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.99	Fluoride	0.038	0.008	0.01	0.057	BMB*
2	4.09	Chloride	37.110	10.386	16.97	38.709	BMB*
3	5.91	Bromide	0.038	0.011	0.02	0.172	BMB*
4	8.72	Phosphate	0.114	0.079	0.13	n.a.	BM
5	10.06	Sulfate	93.796	50.702	82.86	236.493	MB
Total:			131.096	61.186	100.00	275.431	

modified on: 07.23.17 18:04 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

22 1720121-12@5

Sample Name:	**1720121-12@5**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 7:01**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



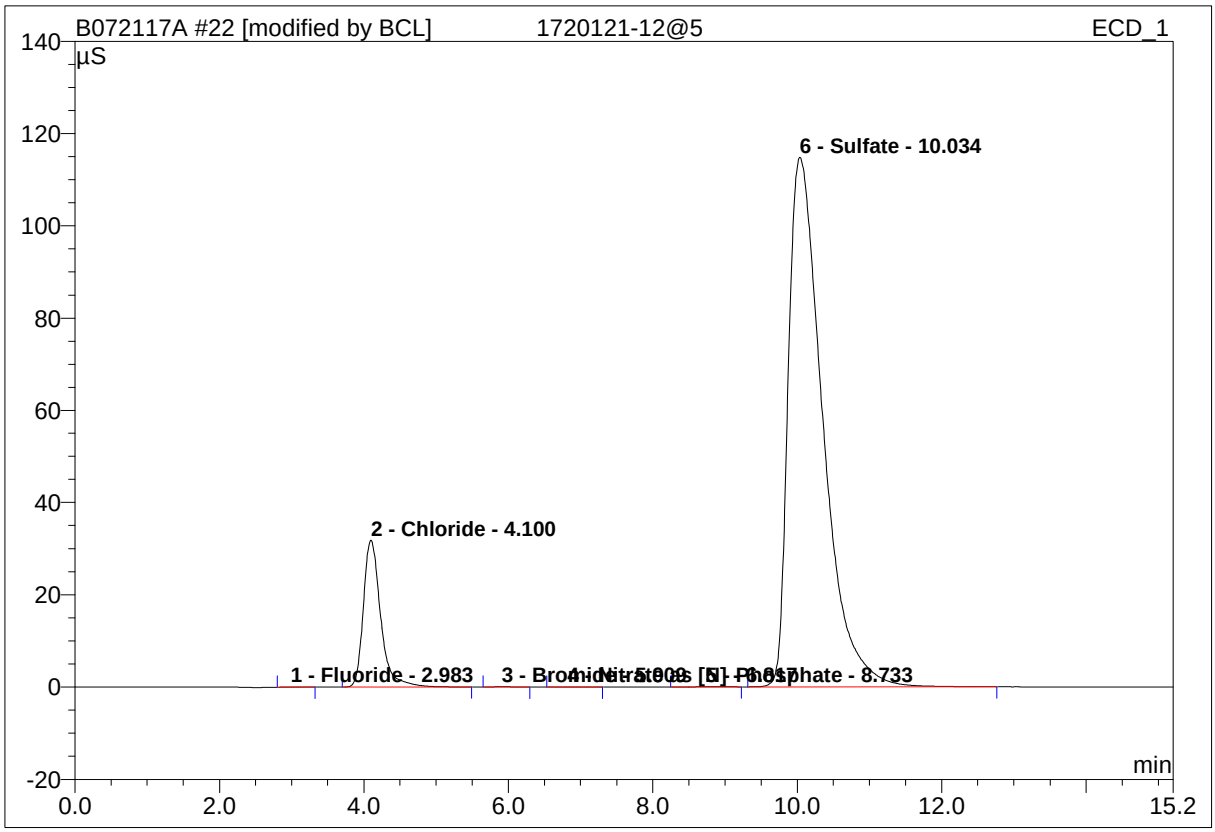
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.10	Chloride	31.844	8.858	12.27	33.258	BM
2	5.91	Bromide	0.059	0.020	0.03	0.291	MB
3	10.03	Sulfate	114.784	63.291	87.70	286.389	BMB
Total:			146.686	72.169	100.00	319.938	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

22 1720121-12@5

Sample Name:	**1720121-12@5**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 7:01**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



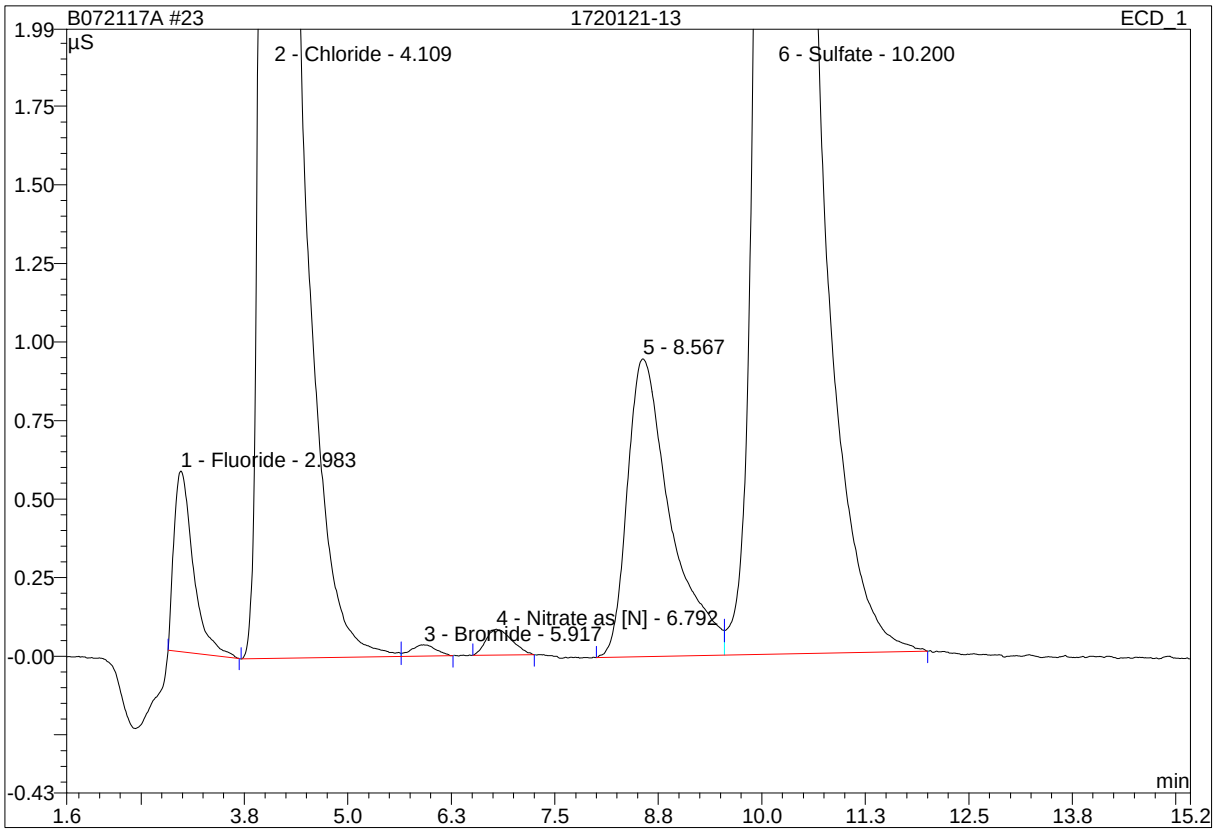
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	0.073	0.020	0.03	0.095	BMB*
2	4.10	Chloride	31.840	8.842	12.25	33.198	BMB*
3	5.91	Bromide	0.052	0.017	0.02	0.244	BMB*
4	6.82	Nitrate as [N]	0.021	0.009	0.01	0.019	BMB*
5	8.73	Phosphate	0.042	0.021	0.03	n.a.	BMB*
6	10.03	Sulfate	114.784	63.291	87.66	286.389	BMB
Total:			146.813	72.198	100.00	319.944	

modified on: 07.23.17 18:04 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

23 1720121-13

Sample Name:	**1720121-13**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 7:18**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



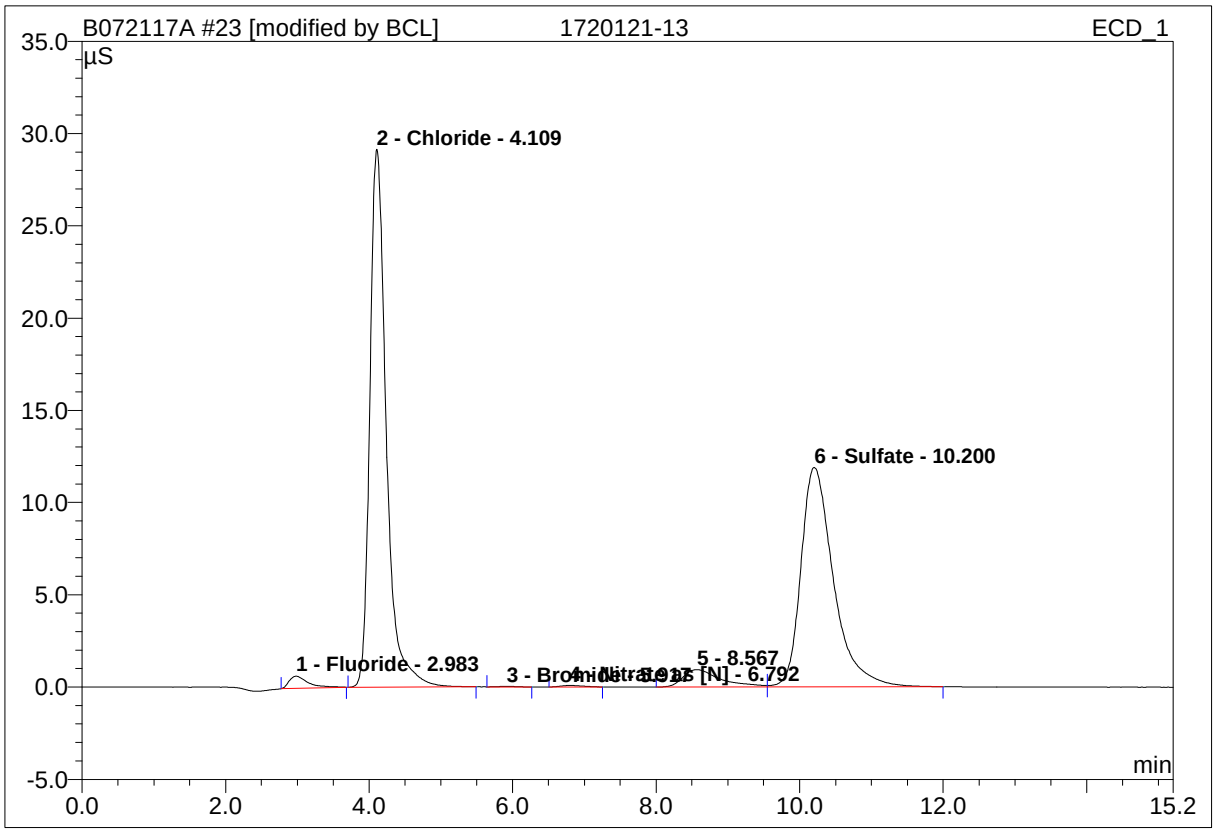
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	0.575	0.156	1.06	0.550	BMB
2	4.11	Chloride	29.148	7.743	52.40	29.229	BM
3	5.92	Bromide	0.036	0.013	0.09	0.191	MB
4	6.79	Nitrate as [N]	0.082	0.030	0.20	0.061	BMB
5	8.57	n.a.	0.948	0.574	3.88	n.a.	BM
6	10.20	Sulfate	11.893	6.261	42.37	33.536	MB
Total:			42.682	14.776	100.00	63.568	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

23 1720121-13

Sample Name:	**1720121-13**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 7:18**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



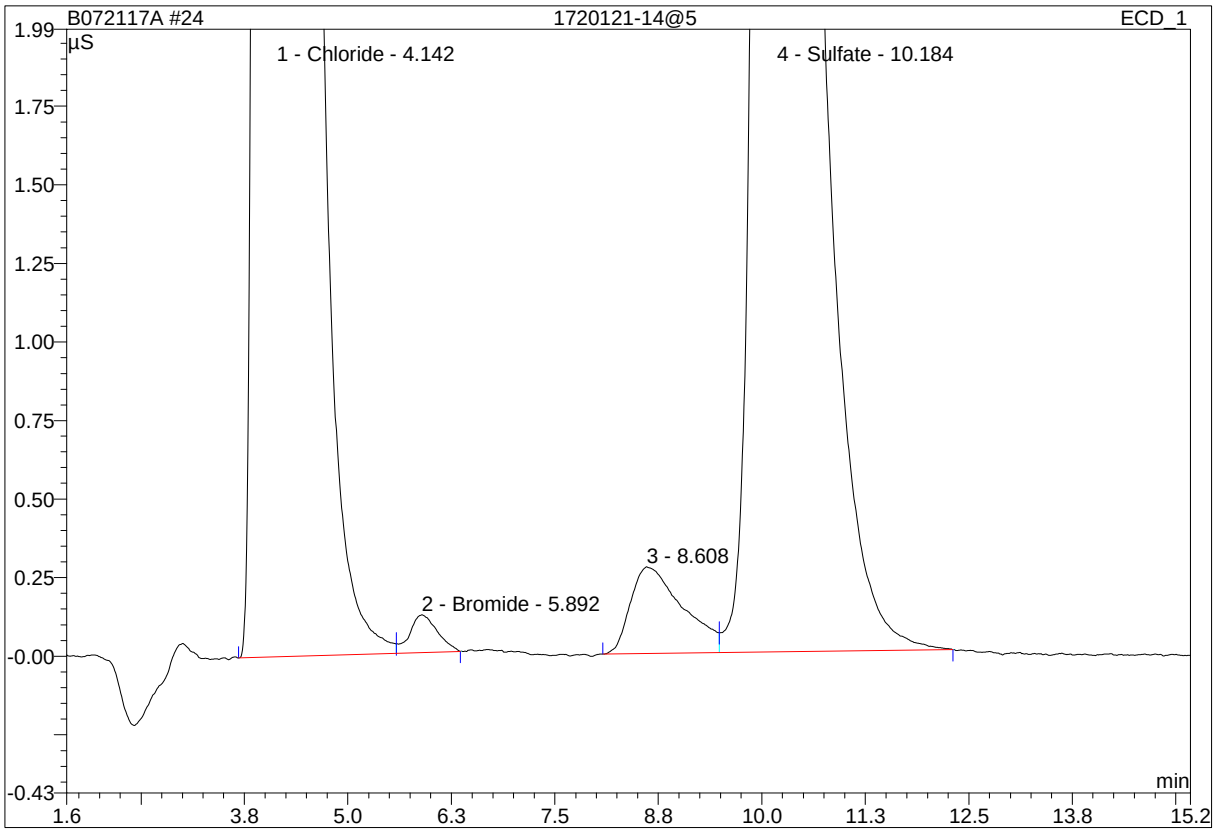
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	0.658	0.202	1.37	0.702	BMB*
2	4.11	Chloride	29.145	7.728	52.20	29.174	BMB*
3	5.92	Bromide	0.030	0.009	0.06	0.149	BMB*
4	6.79	Nitrate as [N]	0.082	0.030	0.20	0.061	BMB
5	8.57	n.a.	0.948	0.574	3.87	n.a.	BM
6	10.20	Sulfate	11.893	6.261	42.29	33.536	MB
Total:			42.757	14.804	100.00	63.623	

modified on: 07.23.17 18:04 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

24 1720121-14@5

Sample Name:	**1720121-14@5**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 7:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



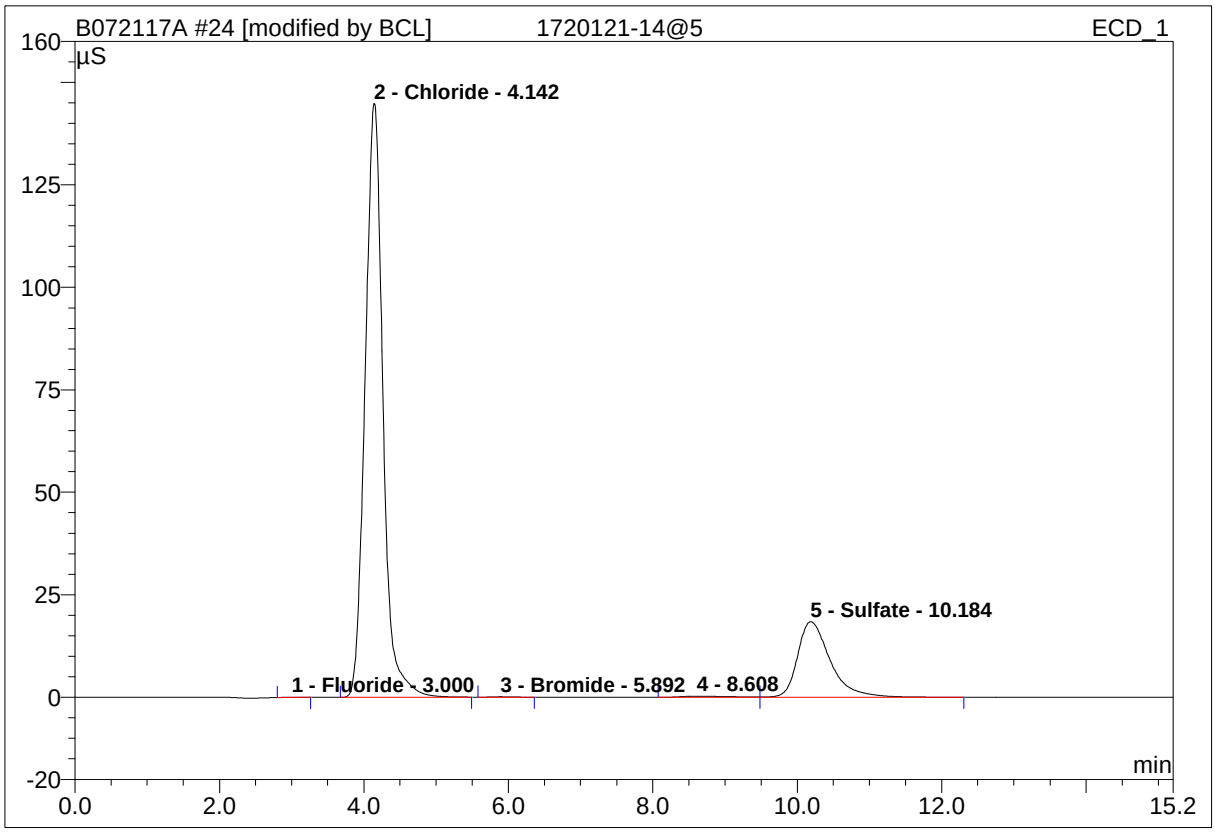
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.14	Chloride	144.795	41.342	80.73	136.097	BM
2	5.89	Bromide	0.120	0.046	0.09	0.626	MB
3	8.61	n.a.	0.276	0.201	0.39	n.a.	BM
4	10.18	Sulfate	18.409	9.620	18.79	50.810	MB
Total:			163.600	51.209	100.00	187.534	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

24 1720121-14@5

Sample Name:	**1720121-14@5**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 7:36**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.00	Fluoride	0.082	0.021	0.04	0.099	BMB*
2	4.14	Chloride	144.786	41.306	80.70	135.995	BMB*
3	5.89	Bromide	0.102	0.035	0.07	0.480	BMB*
4	8.61	n.a.	0.276	0.201	0.39	n.a.	BM
5	10.18	Sulfate	18.409	9.620	18.80	50.810	MB
Total:			163.655	51.183	100.00	187.384	

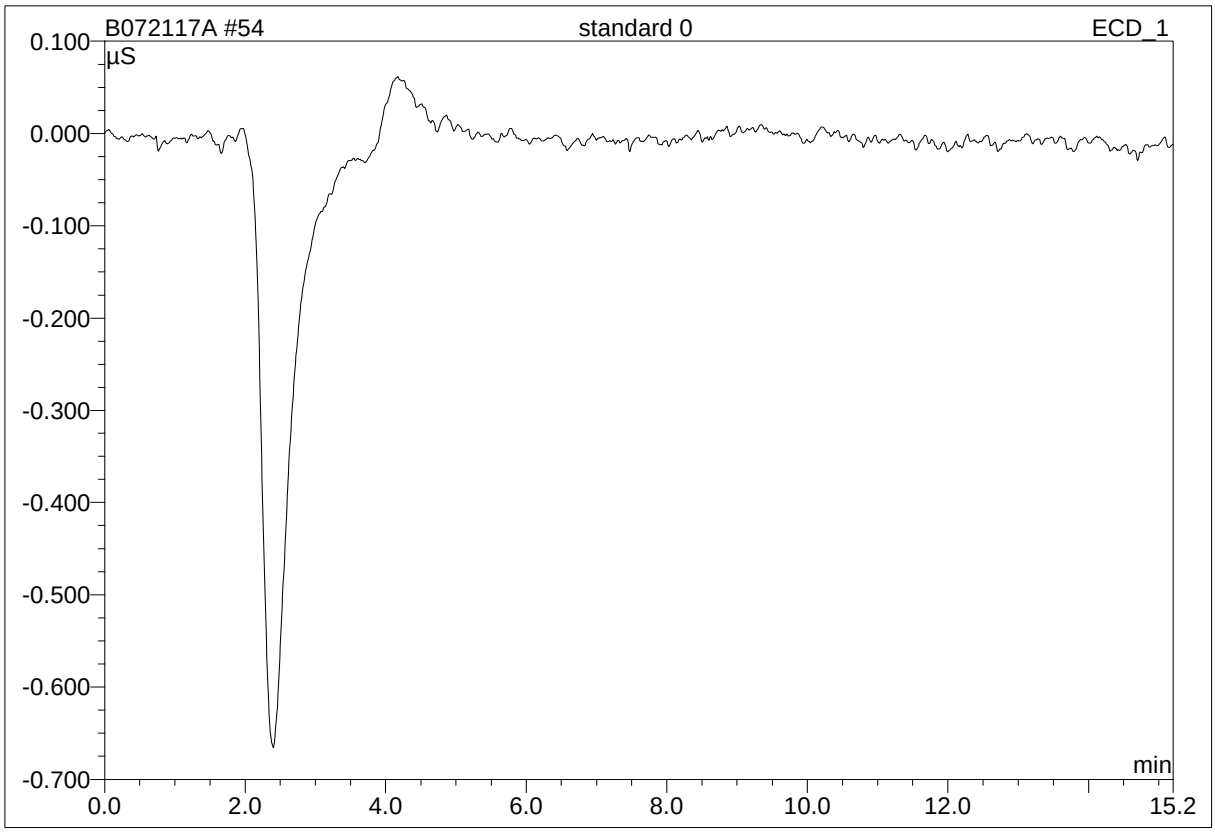
modified on: 07.23.17 18:04 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - Calibration Standards

54 standard 0

Sample Name:	**standard 0**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**IC2**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 9:53**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



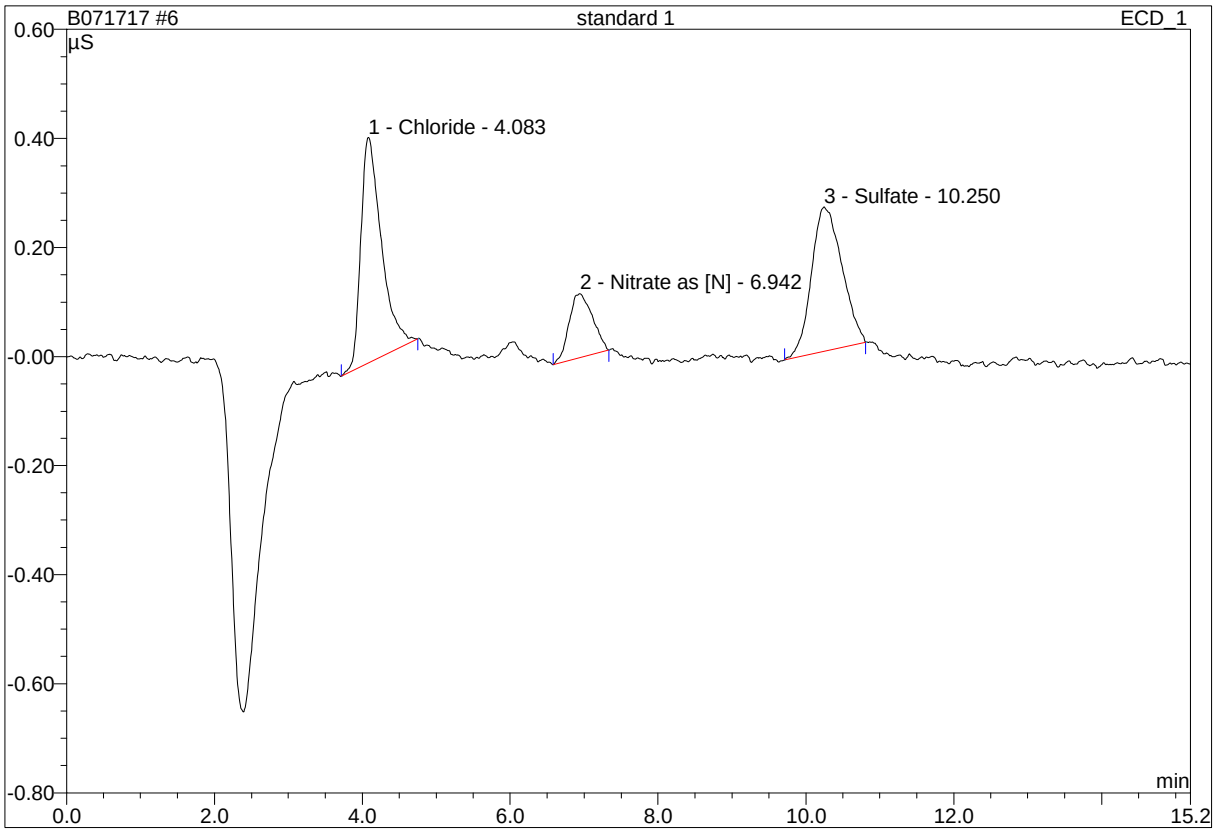
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

6 standard 1

Sample Name:	**standard 1**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**IC2**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 10:11**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



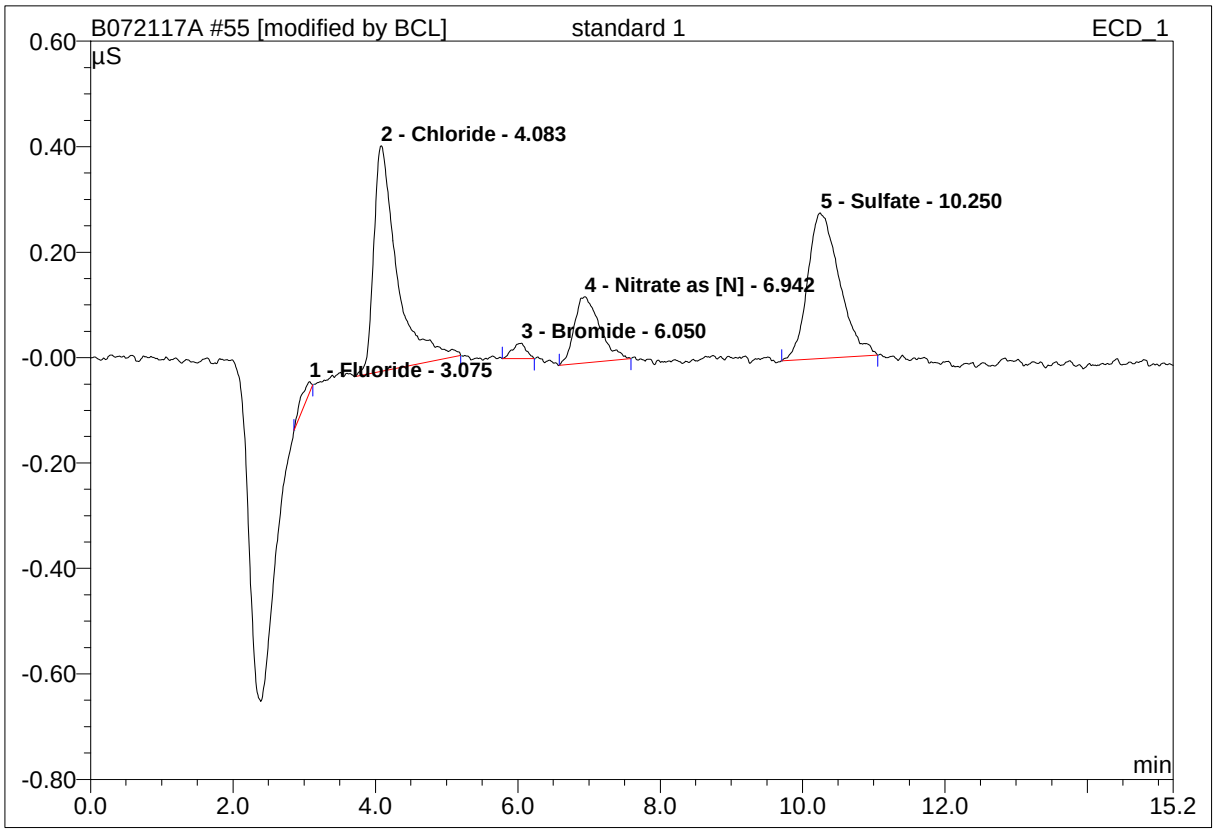
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.08	Chloride	0.413	0.133	44.09	0.564	BMB
2	6.94	Nitrate as [N]	0.117	0.043	14.24	0.102	BMB
3	10.25	Sulfate	0.265	0.126	41.67	0.929	BMB
Total:			0.795	0.302	100.00	1.596	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

55 standard 1

Sample Name:	**standard 1**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**IC2**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 10:11**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



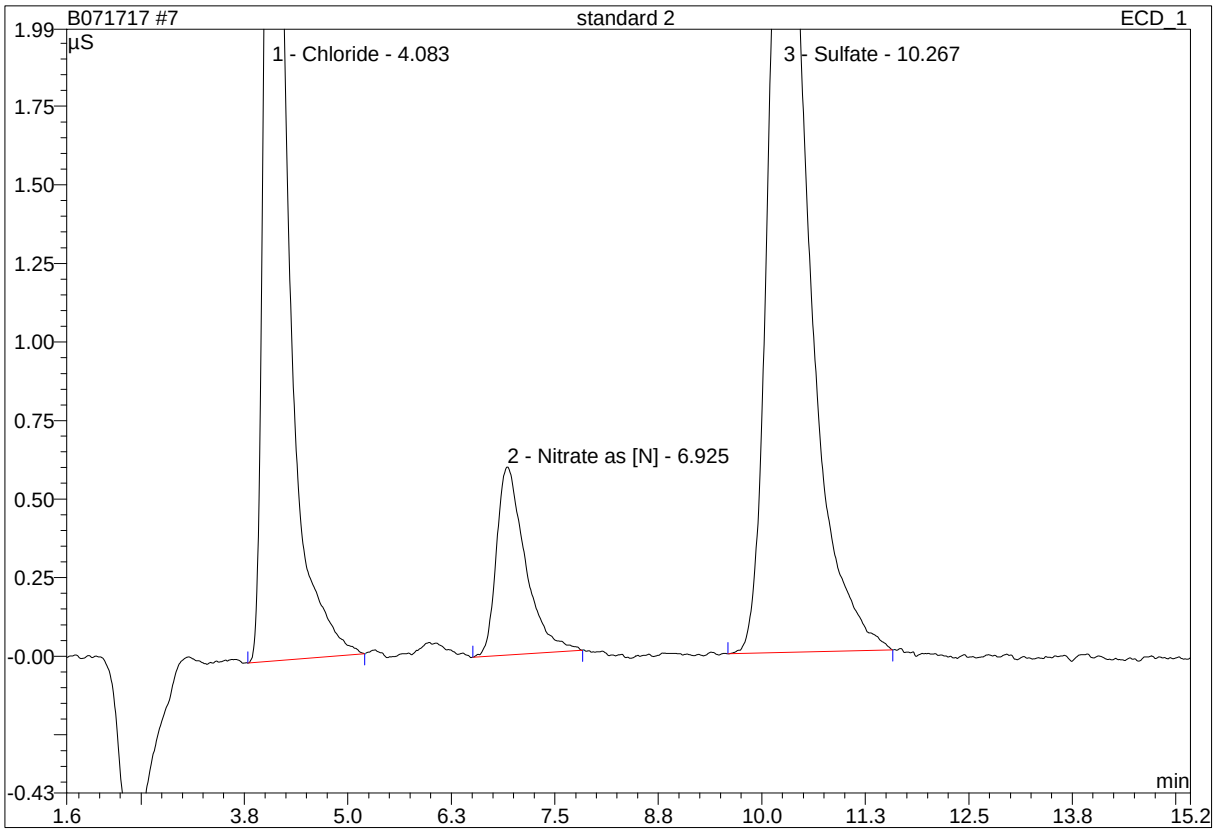
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Fluoride	0.022	0.006	1.53	0.048	BMB*
2	4.08	Chloride	0.427	0.163	44.03	0.608	BMB*
3	6.05	Bromide	0.029	0.007	1.78	0.112	BMB*
4	6.94	Nitrate as [N]	0.125	0.052	14.06	0.106	BMB*
5	10.25	Sulfate	0.276	0.143	38.59	0.977	BMB*
Total:			0.880	0.370	100.00	1.851	

modified on: 07.17.17 12:25 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

7 standard 2

Sample Name:	**standard 2**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**IC2**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 10:29**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



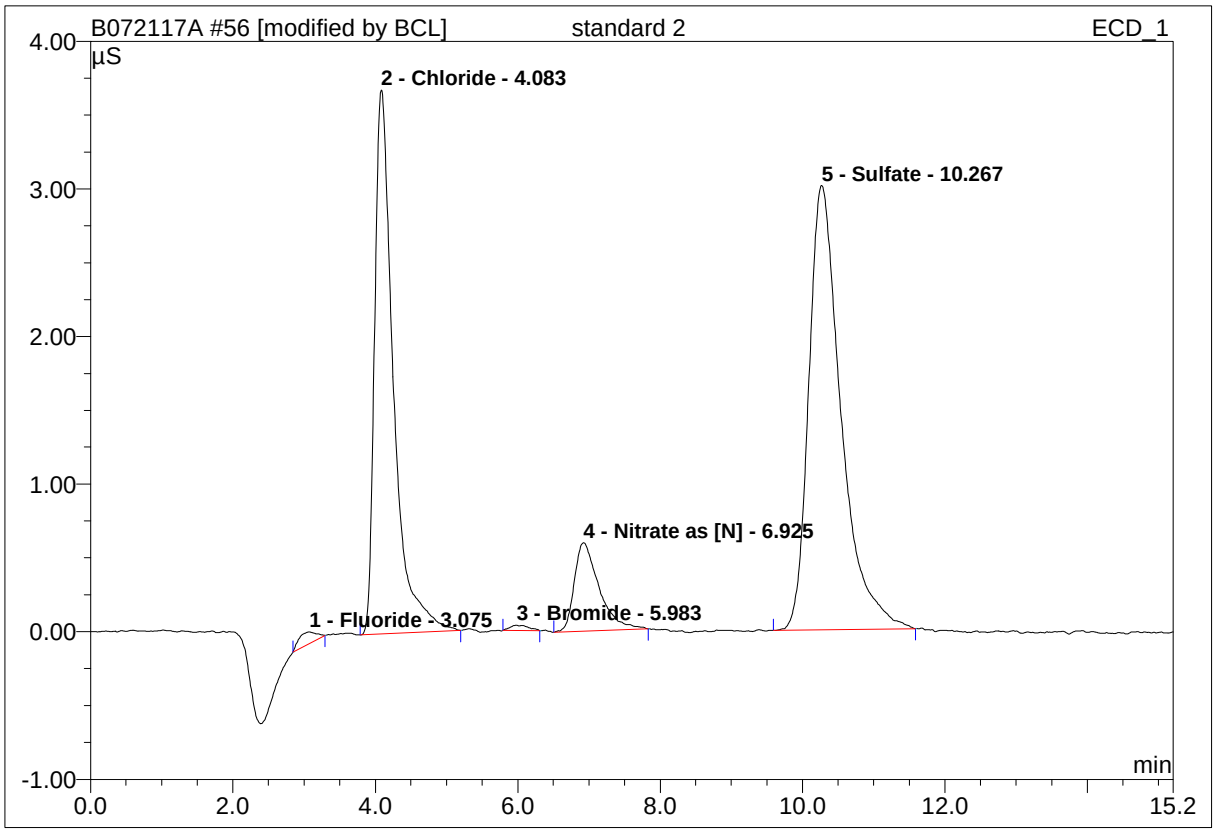
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.08	Chloride	3.685	1.127	38.21	4.379	BMB
2	6.93	Nitrate as [N]	0.598	0.242	8.19	0.483	BMB
3	10.27	Sulfate	3.010	1.582	53.61	8.772	BMB
Total:			7.294	2.951	100.00	13.635	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

56 standard 2

Sample Name:	**standard 2**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**IC2**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 10:29**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



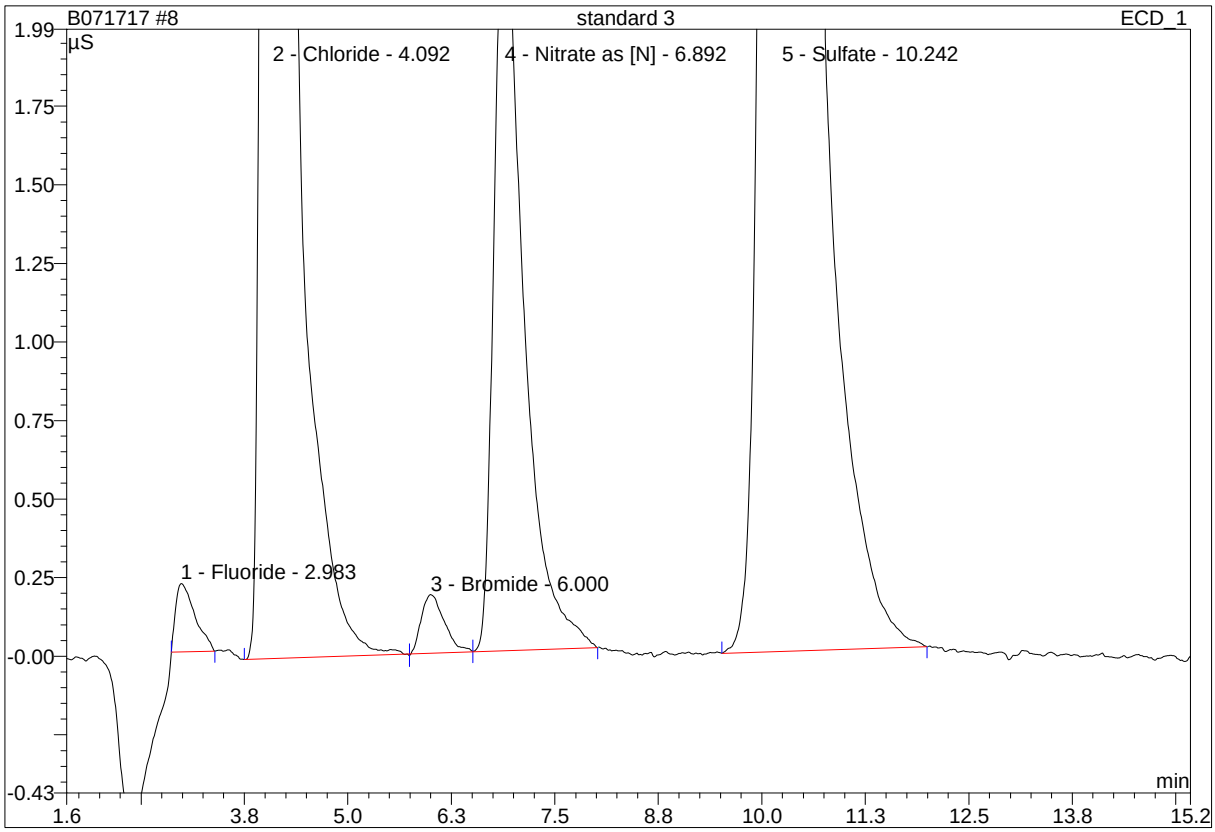
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	3.08	Fluoride	0.078	0.024	0.80	0.109	BMB*
2	4.08	Chloride	3.685	1.127	37.77	4.379	BMB
3	5.98	Bromide	0.035	0.010	0.35	0.163	BMB*
4	6.93	Nitrate as [N]	0.598	0.242	8.09	0.483	BMB
5	10.27	Sulfate	3.010	1.582	52.99	8.772	BMB
Total:			7.407	2.985	100.00	13.906	

modified on: 07.17.17 12:26 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

8 standard 3

Sample Name:	**standard 3**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**IC2**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 10:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	0.218	0.059	0.46	0.243	BMB
2	4.09	Chloride	16.556	4.791	37.44	18.350	BM
3	6.00	Bromide	0.186	0.060	0.47	0.811	M
4	6.89	Nitrate as [N]	2.370	0.976	7.62	1.913	MB
5	10.24	Sulfate	13.339	6.912	54.01	36.914	BMB
Total:			32.669	12.796	100.00	58.231	

modified on: n.a. by: OLH/EMW/JSW

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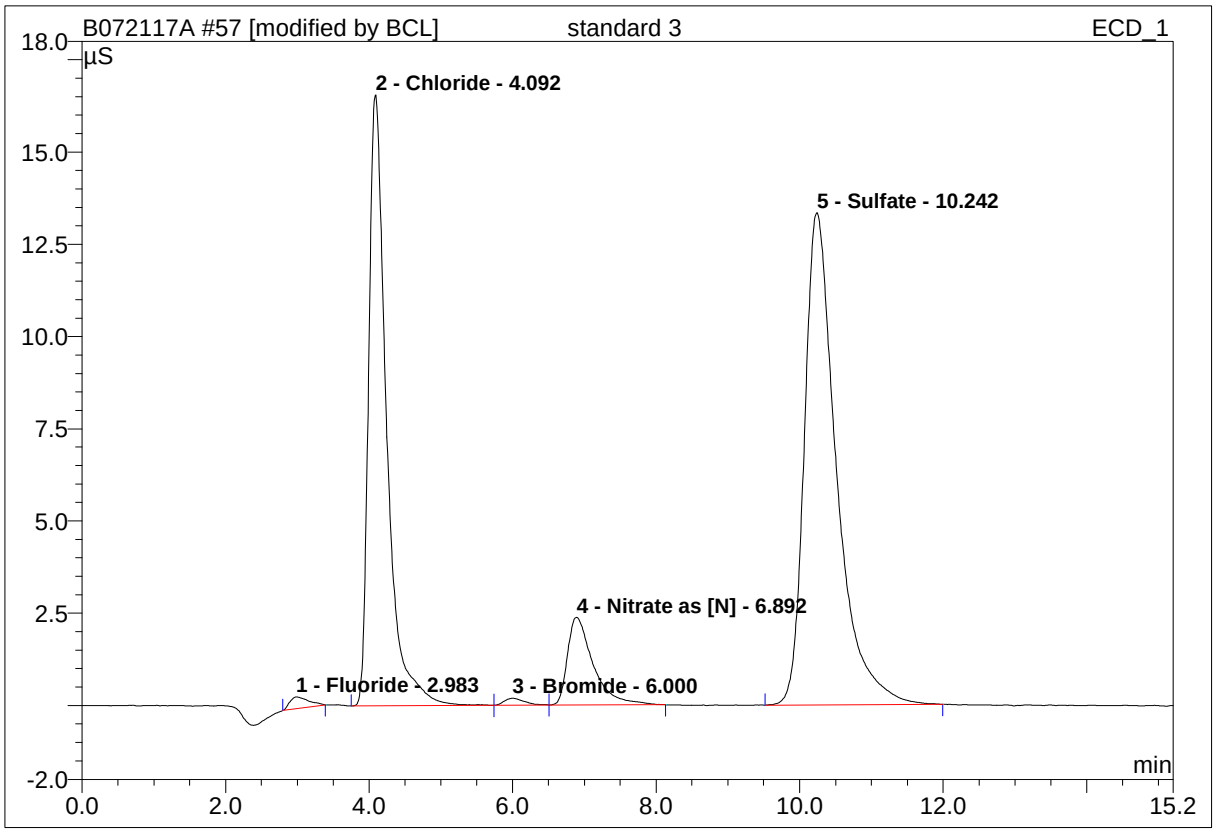
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

57 standard 3

Sample Name:	**standard 3**	*Injection Volume:*	**20.0**
Vial Number:	**19**	*Channel:*	**IC2**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 10:47**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



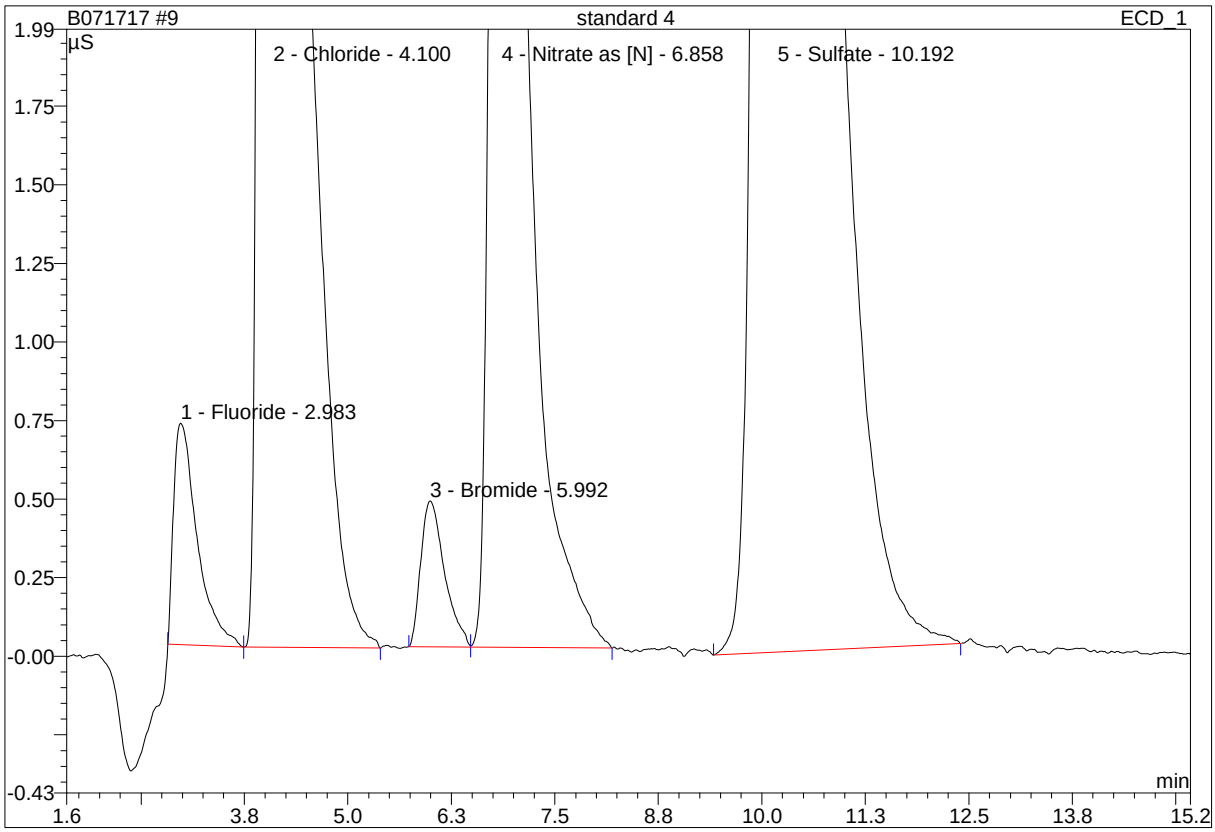
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	0.318	0.096	0.75	0.350	BMB*
2	4.09	Chloride	16.556	4.795	37.31	18.362	BMb*
3	6.00	Bromide	0.191	0.064	0.49	0.845	bM *
4	6.89	Nitrate as [N]	2.376	0.985	7.67	1.927	MB*
5	10.24	Sulfate	13.339	6.912	53.78	36.914	BMB
Total:			32.780	12.851	100.00	58.398	

modified on: 07.17.17 12:26 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

9 standard 4

Sample Name:	**standard 4**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**IC2**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 11:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



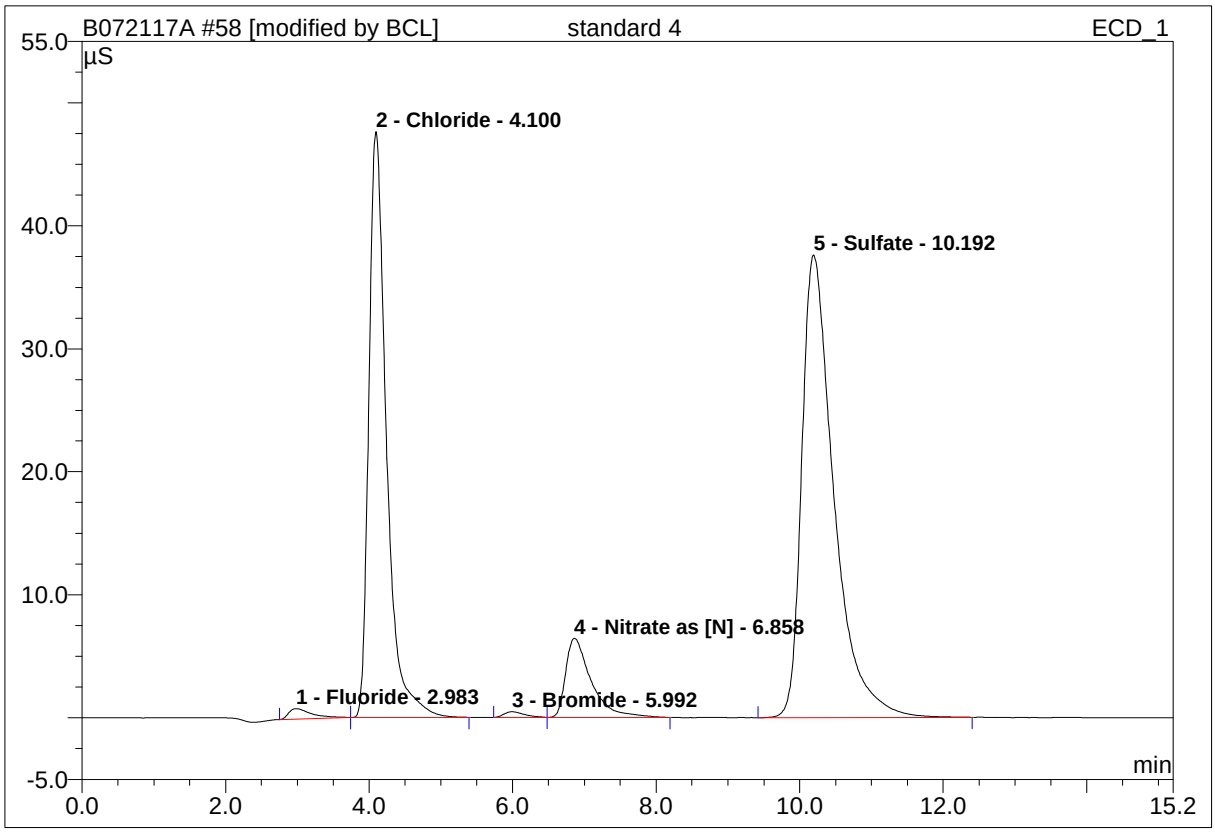
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	0.705	0.233	0.65	0.902	BMB
2	4.10	Chloride	47.616	13.520	37.51	49.659	bMB
3	5.99	Bromide	0.464	0.154	0.43	1.969	BM
4	6.86	Nitrate as [N]	6.432	2.657	7.37	4.982	MB
5	10.19	Sulfate	37.621	19.477	54.04	99.327	BMB
Total:			92.837	36.042	100.00	156.839	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

58 standard 4

Sample Name:	**standard 4**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**IC2**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 11:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



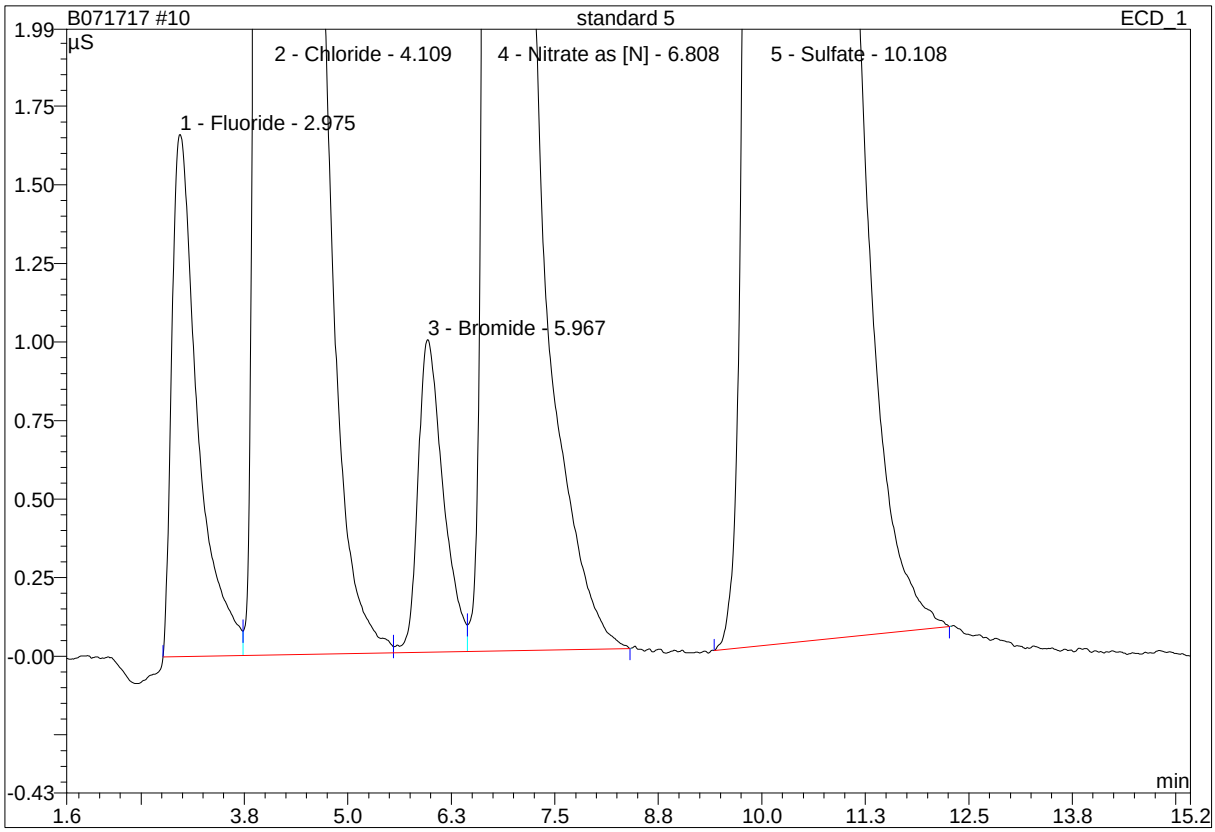
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	0.841	0.312	0.86	1.061	BMb*
2	4.10	Chloride	47.616	13.520	37.43	49.659	bMB
3	5.99	Bromide	0.464	0.154	0.43	1.969	BM
4	6.86	Nitrate as [N]	6.432	2.657	7.36	4.982	MB
5	10.19	Sulfate	37.621	19.477	53.92	99.327	BMB
Total:			92.973	36.121	100.00	156.998	

modified on: 07.17.17 12:26 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

10 standard 5

Sample Name:	**standard 5**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**IC2**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 11:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



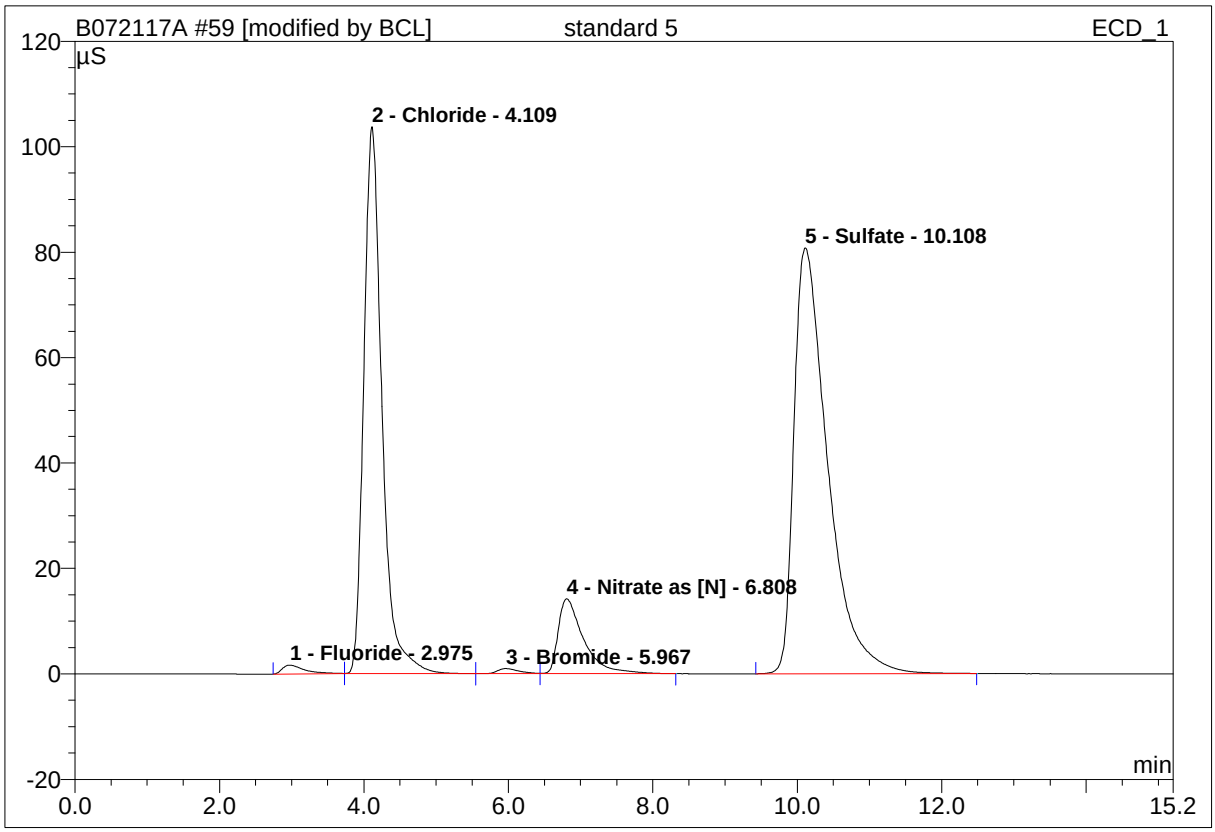
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	1.661	0.602	0.75	1.985	BM
2	4.11	Chloride	103.780	30.309	37.56	103.743	M
3	5.97	Bromide	0.995	0.352	0.44	4.151	M
4	6.81	Nitrate as [N]	14.215	5.821	7.21	10.178	MB
5	10.11	Sulfate	80.786	43.606	54.04	207.225	BMB
Total:			201.437	80.689	100.00	327.283	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

59 standard 5

Sample Name:	**standard 5**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**IC2**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 11:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



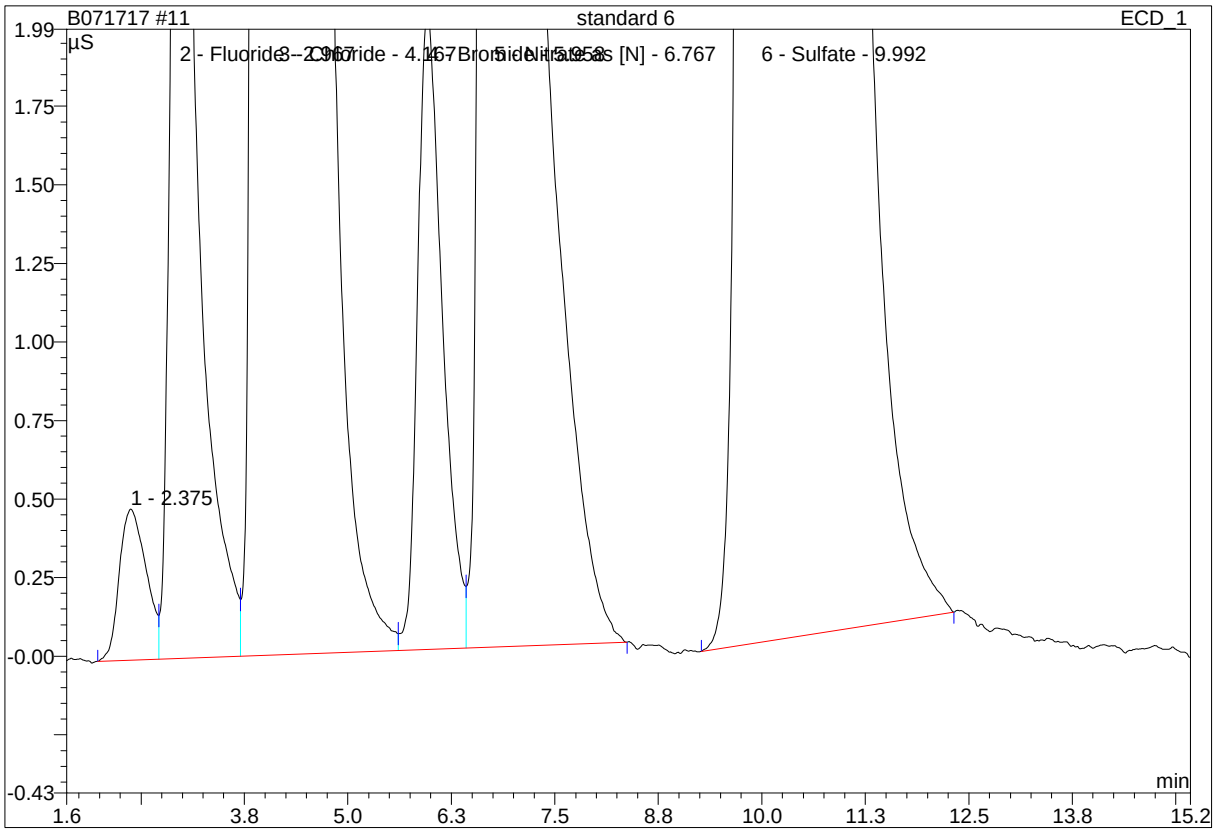
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	1.680	0.601	0.75	1.985	BM *
2	4.11	Chloride	103.747	30.254	37.53	103.640	M *
3	5.97	Bromide	0.971	0.330	0.41	4.014	M *
4	6.81	Nitrate as [N]	14.195	5.788	7.18	10.147	MB*
5	10.11	Sulfate	80.792	43.650	54.14	207.339	BMB*
Total:			201.385	80.624	100.00	327.125	

modified on: 07.17.17 12:26 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

11 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**IC2**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 11:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



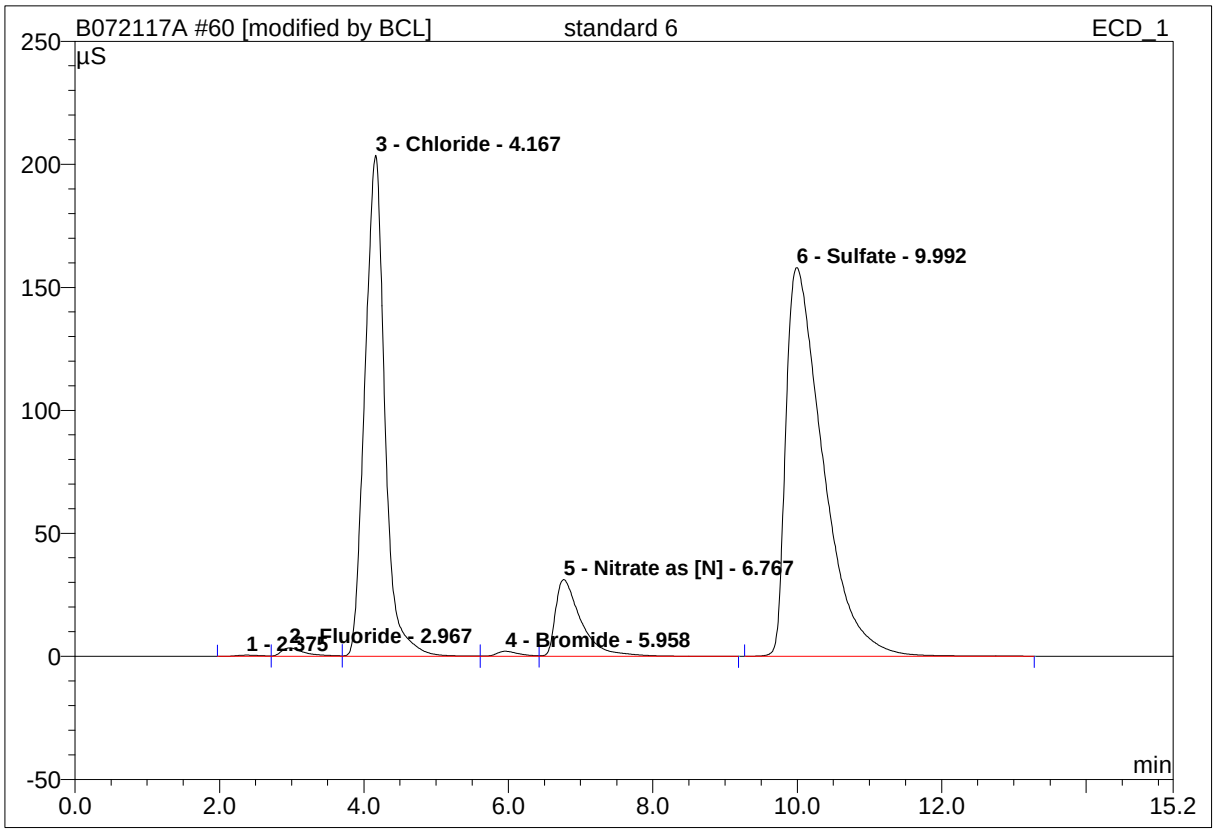
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.38	n.a.	0.481	0.181	0.10	n.a.	BM
2	2.97	Fluoride	3.399	1.286	0.74	4.000	M
3	4.17	Chloride	203.686	64.912	37.46	198.689	M
4	5.96	Bromide	2.026	0.709	0.41	7.995	M
5	6.77	Nitrate as [N]	31.126	12.736	7.35	19.945	MB
6	9.99	Sulfate	157.959	93.445	53.93	397.291	BMB
Total:			398.677	173.270	100.00	627.920	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

60 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**IC2**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 11:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



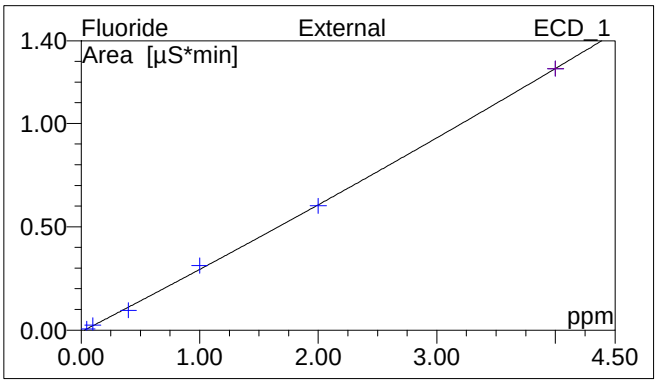
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.38	n.a.	0.467	0.172	0.10	n.a.	BM *
2	2.97	Fluoride	3.375	1.265	0.73	3.998	M *
3	4.17	Chloride	203.673	64.897	37.41	198.686	M *
4	5.96	Bromide	2.031	0.714	0.41	7.997	M *
5	6.77	Nitrate as [N]	31.138	12.780	7.37	19.948	MB*
6	9.99	Sulfate	157.982	93.636	53.98	397.334	BMB*
Total:			398.667	173.463	100.00	627.963	

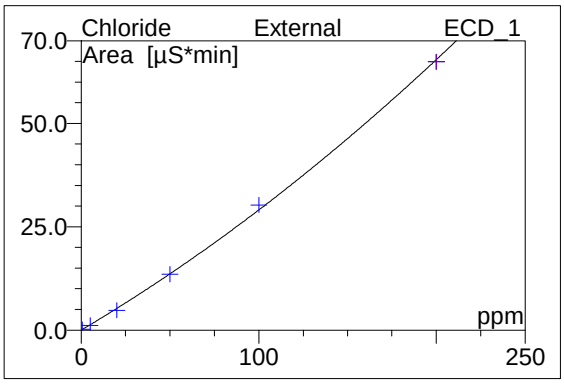
modified on: 07.17.17 12:26 by: OLH/EMW/JSW

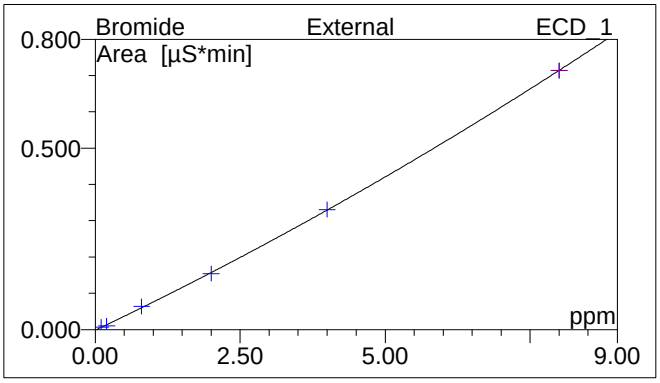
* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

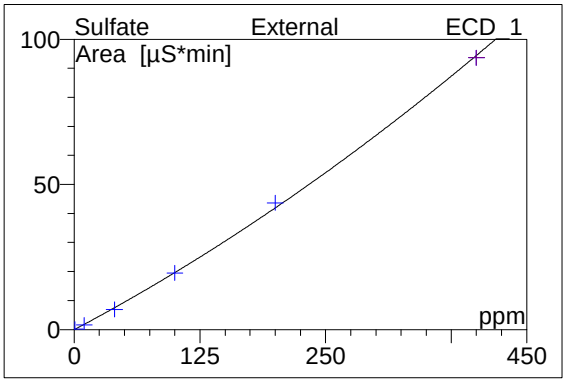
60 standard 6

Sample Name:	**standard 6**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**ECD_1**
Sample Type:	**standard**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/17/2017 11:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**







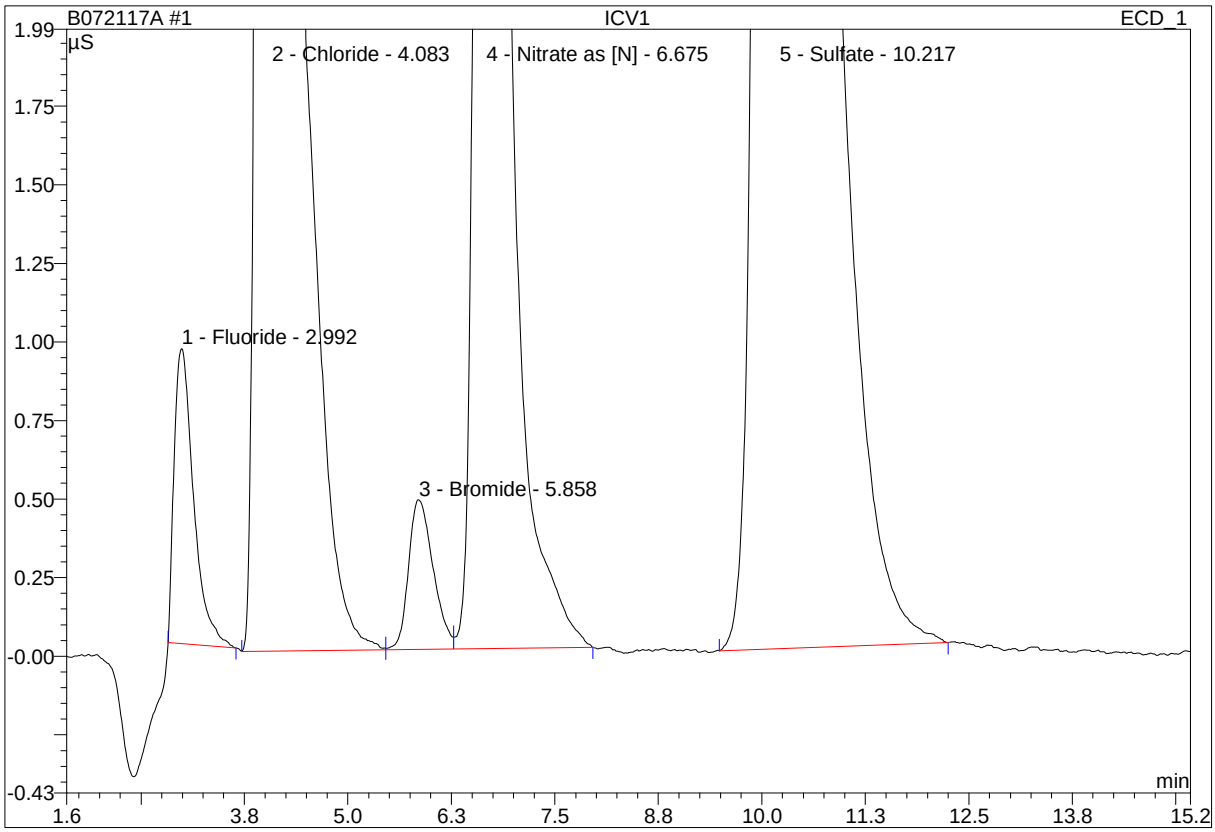


No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	2.38	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
2	2.97	Fluoride	XA0QOff	6	99.8976	-0.0085	0.2961	0.0056
3	4.17	Chloride	XA0QOff	6	99.6419	0.0084	0.2539	0.0004
4	5.96	Bromide	XA0QOff	6	99.8438	-0.0019	0.0761	0.0017
5	6.77	Nitrate as [N]	XA0QOff	6	99.6901	-0.0008	0.4978	0.0072
6	9.99	Sulfate	XA0QOff	6	99.6621	-0.0365	0.1834	0.0001
Average:					99.7471	-0.0079	0.2615	0.0030

Raw Data - ICV

1 ICV1

Sample Name:	**ICV1**	*Injection Volume:*	**20.0**
Vial Number:	**17**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 0:46**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



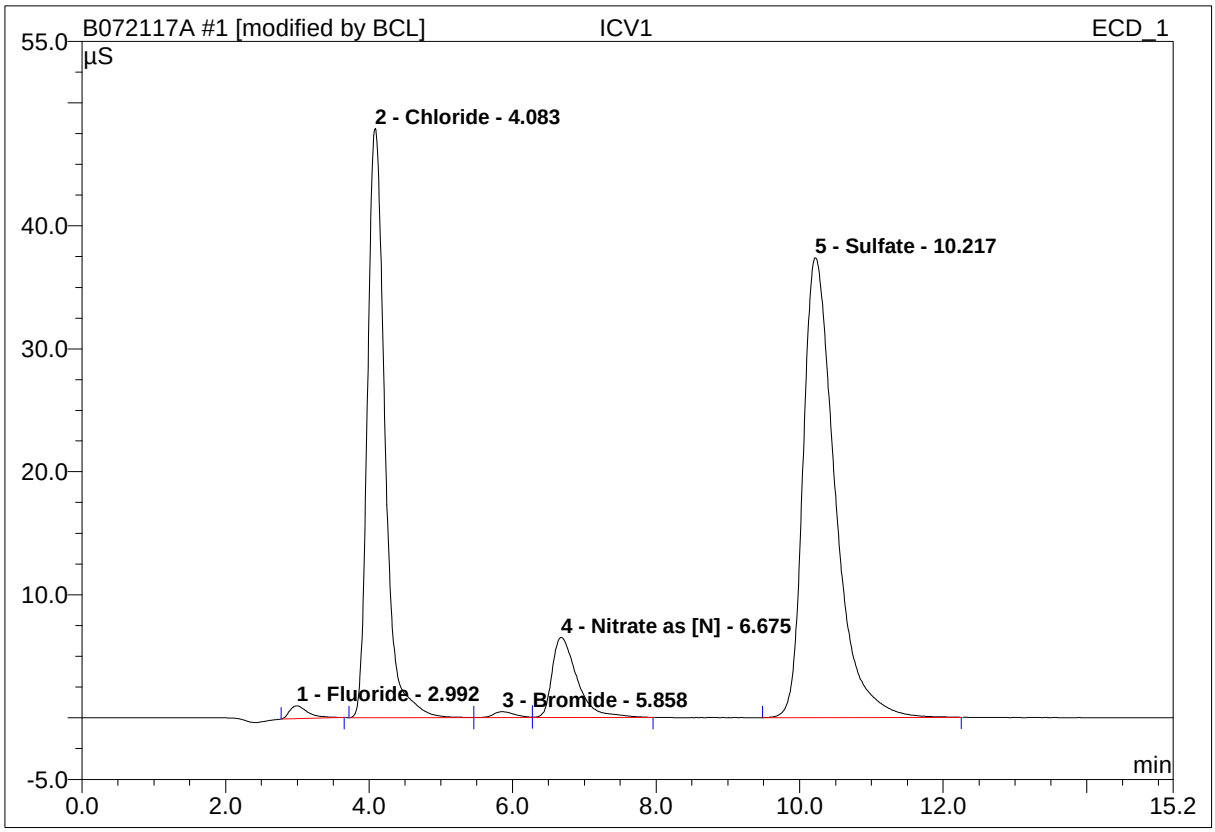
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.99	Fluoride	0.939	0.256	0.72	0.879	BMB
2	4.08	Chloride	47.899	13.468	37.61	49.478	BM
3	5.86	Bromide	0.476	0.164	0.46	2.084	M
4	6.68	Nitrate as [N]	6.505	2.634	7.35	4.941	MB
5	10.22	Sulfate	37.379	19.290	53.87	98.435	BMB
Total:			93.198	35.812	100.00	155.816	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

1 ICV1

Sample Name:	**ICV1**	*Injection Volume:*	**20.0**
Vial Number:	**17**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 0:46**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.99	Fluoride	1.044	0.313	0.87	1.064	BMB*
2	4.08	Chloride	47.899	13.468	37.55	49.478	BM
3	5.86	Bromide	0.476	0.164	0.46	2.084	M
4	6.68	Nitrate as [N]	6.505	2.634	7.34	4.941	MB
5	10.22	Sulfate	37.379	19.290	53.78	98.435	BMB
Total:			93.303	35.868	100.00	156.002	

modified on: 07.22.17 01:07 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
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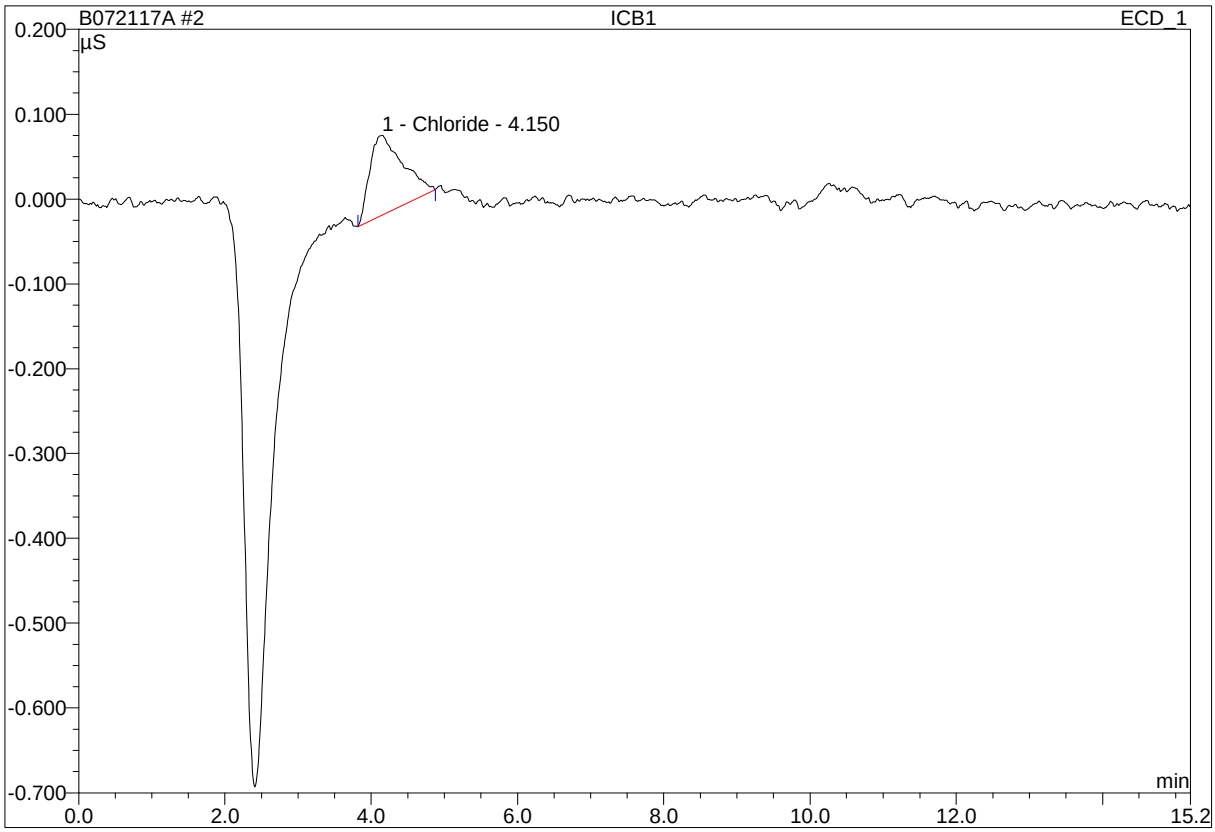
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - ICB

2 ICB1

Sample Name:	**ICB1**	*Injection Volume:*	**20.0**
Vial Number:	**17**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 1:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



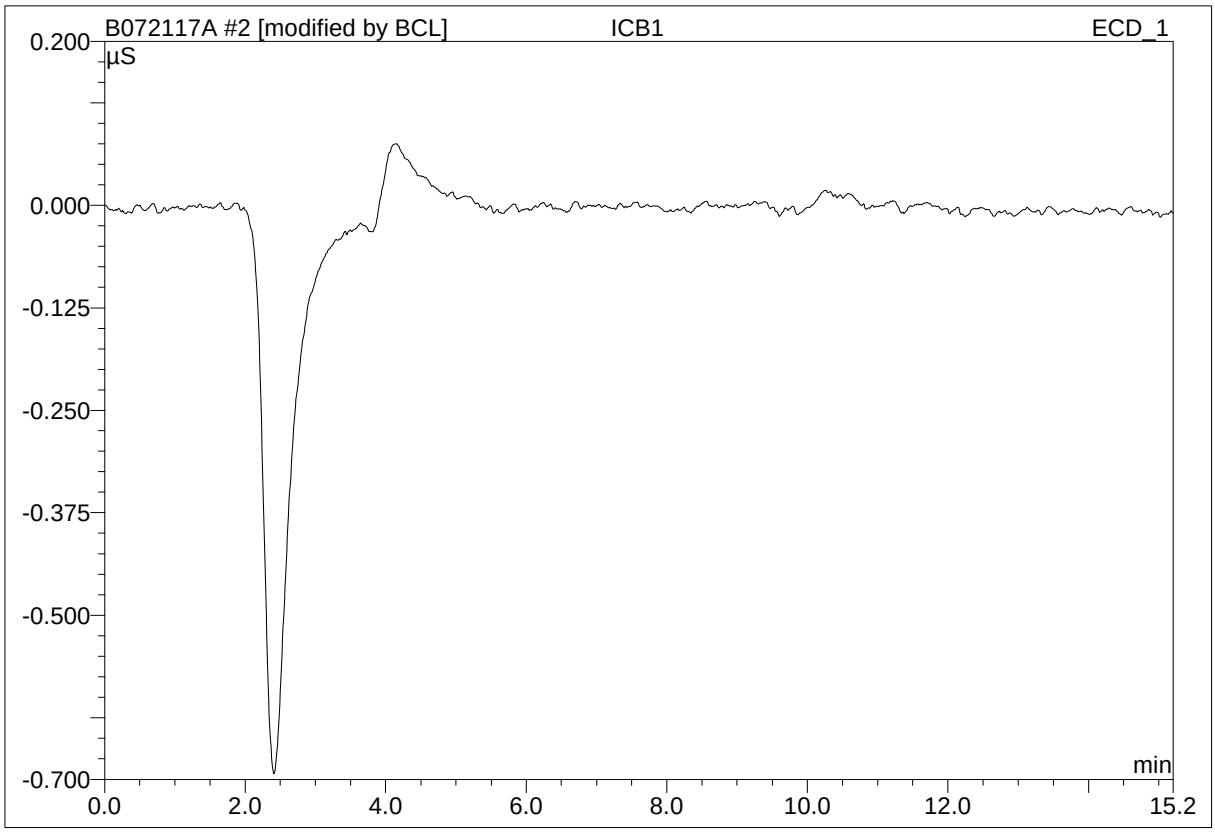
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.15	Chloride	0.094	0.049	100.00	0.159	BMB
Total:			0.094	0.049	100.00	0.159	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

2 ICB1

Sample Name:	**ICB1**	*Injection Volume:*	**20.0**
Vial Number:	**17**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 1:04**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.23.17 17:53 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
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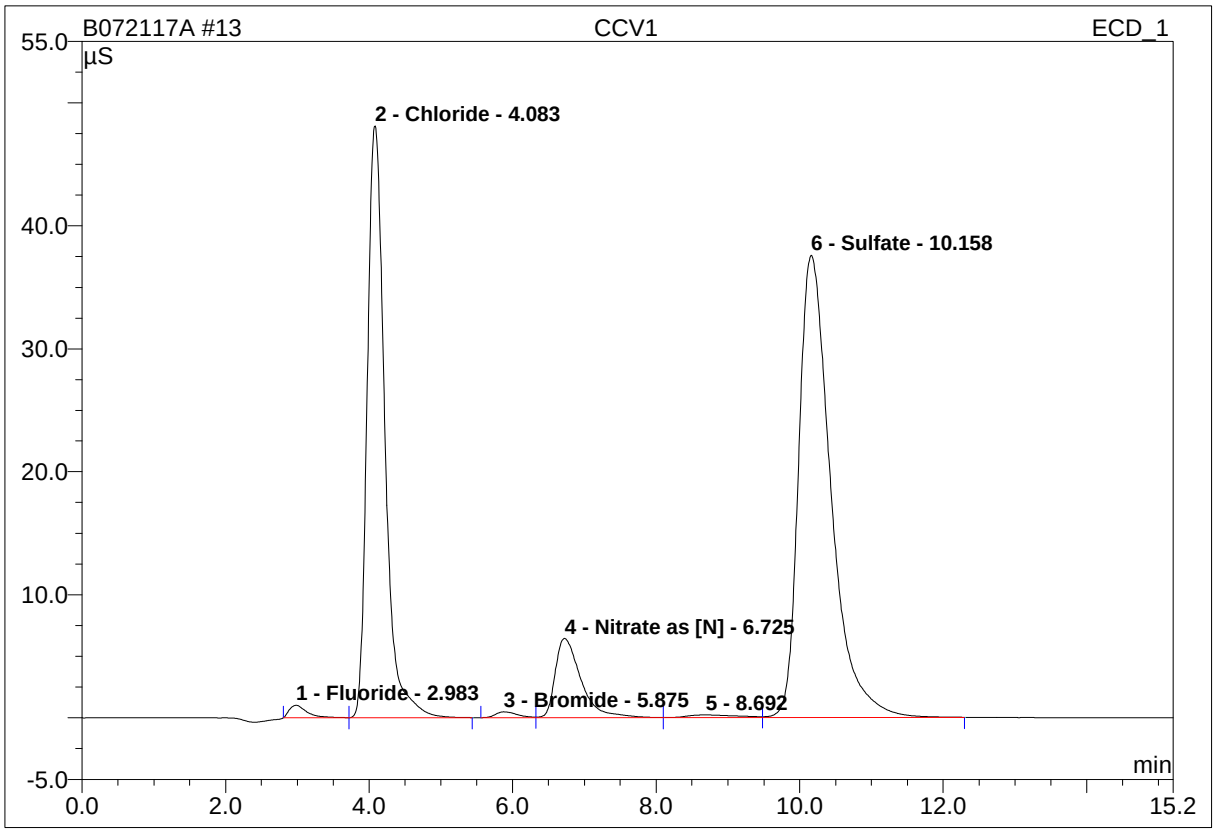
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - CCV

13 CCV1

Sample Name:	**CCV1**	*Injection Volume:*	**20.0**
Vial Number:	**29**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 4:20**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	1.002	0.285	0.78	0.972	BMB
2	4.08	Chloride	48.100	13.704	37.54	50.292	bMB
3	5.88	Bromide	0.474	0.164	0.45	2.084	BM
4	6.73	Nitrate as [N]	6.434	2.663	7.30	4.993	M
5	8.69	n.a.	0.215	0.166	0.45	n.a.	M
6	10.16	Sulfate	37.572	19.521	53.48	99.538	MB
Total:			93.798	36.503	100.00	157.879	

modified on: n.a. by: OLH/EMW/JSW

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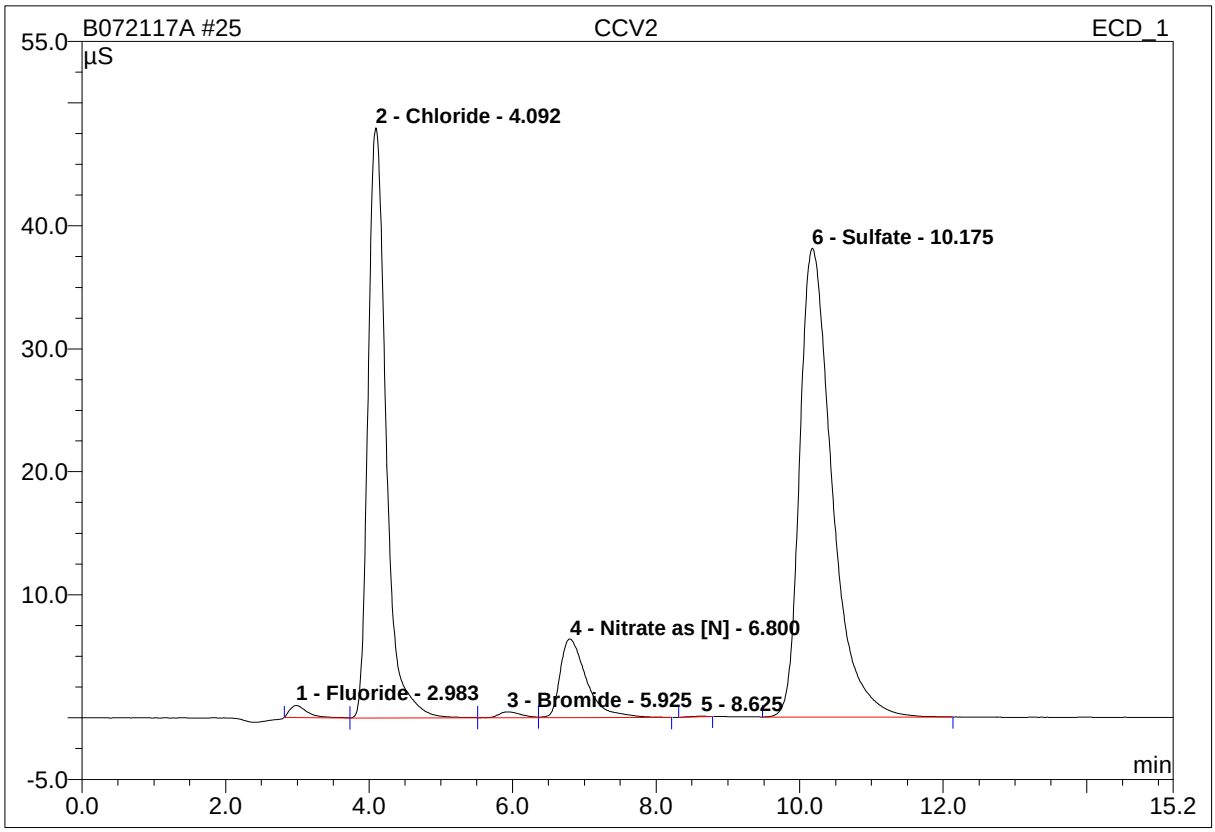
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

25 CCV2

Sample Name:	**CCV2**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 7:54**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	0.982	0.281	0.76	0.961	BMB
2	4.09	Chloride	47.961	13.922	37.65	51.038	bM
3	5.93	Bromide	0.477	0.172	0.47	2.183	M
4	6.80	Nitrate as [N]	6.381	2.731	7.38	5.111	MB
5	8.63	n.a.	0.042	0.013	0.03	n.a.	BMB
6	10.18	Sulfate	38.118	19.859	53.71	101.147	BMB
Total:			93.961	36.977	100.00	160.440	

modified on: n.a. by: OLH/EMW/JSW

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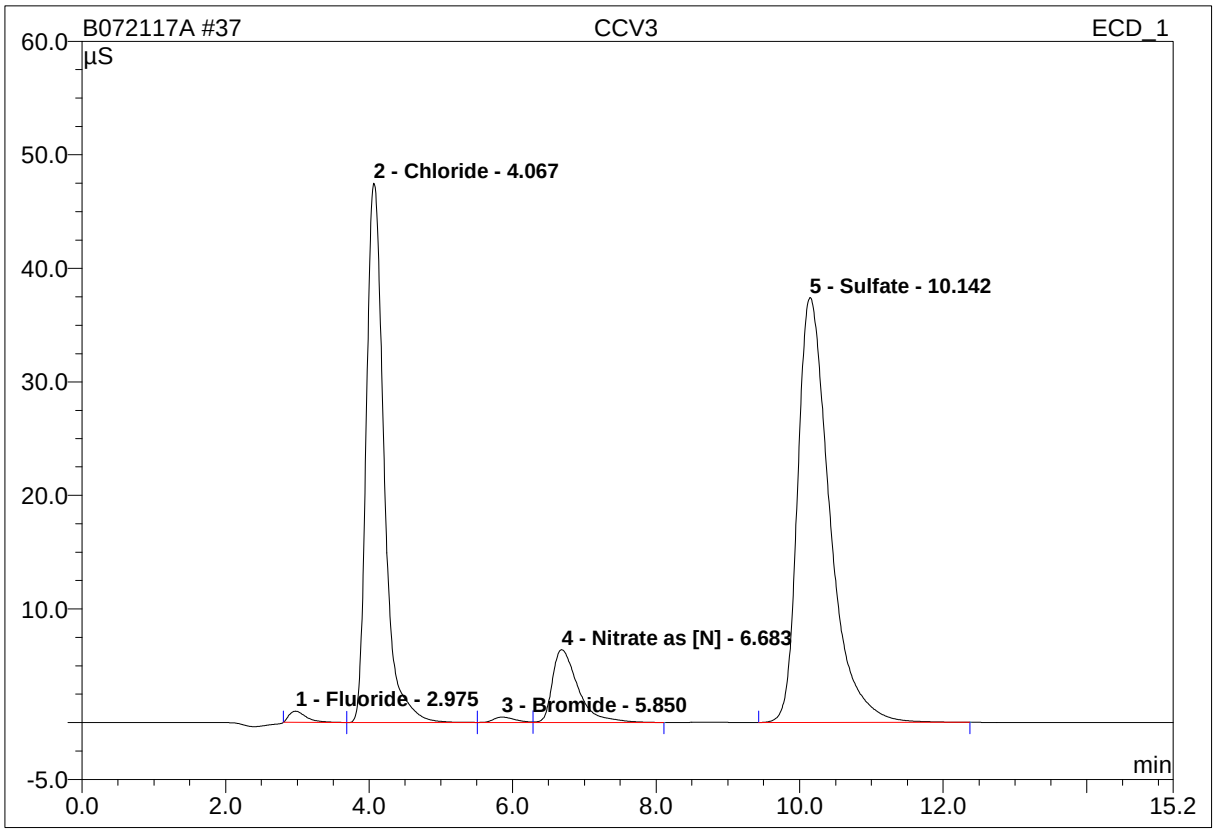
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

37 CCV3

Sample Name:	**CCV3**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 11:28**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



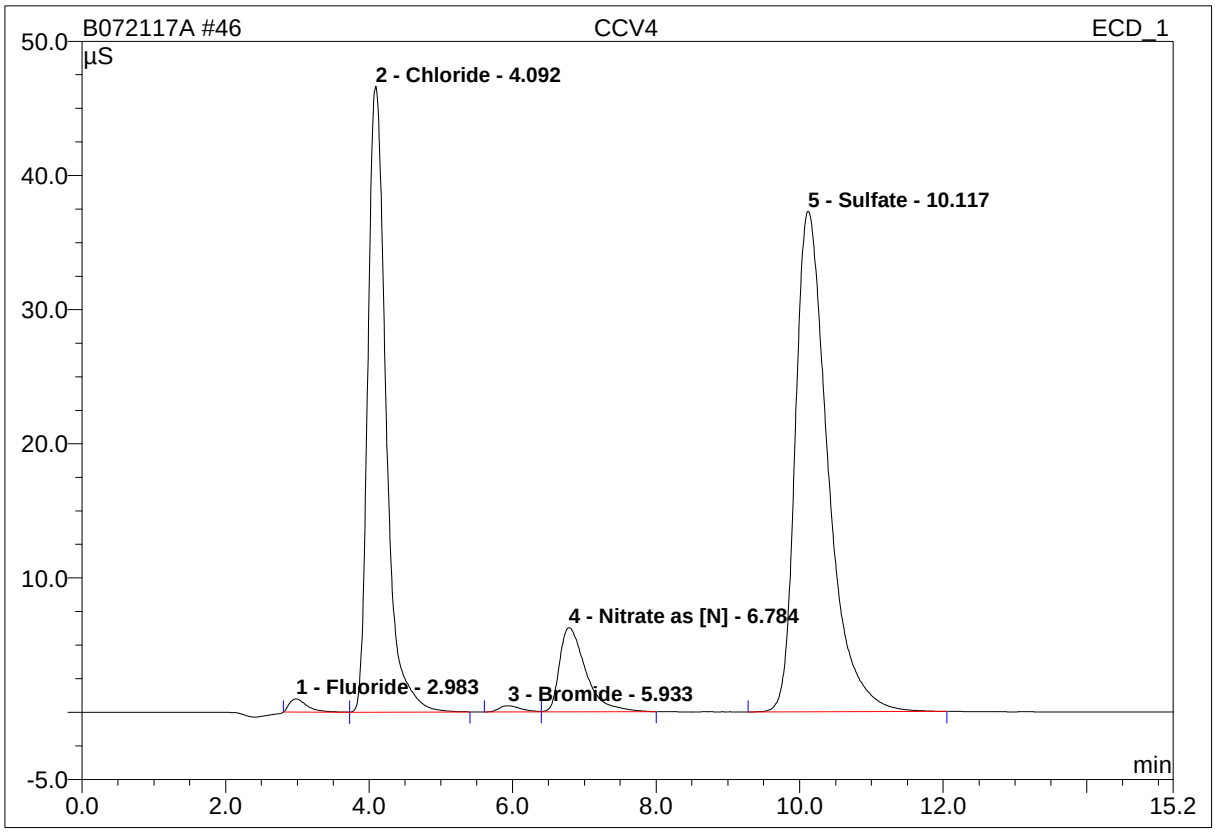
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	0.983	0.276	0.77	0.945	BMB
2	4.07	Chloride	47.514	13.570	37.62	49.829	bM
3	5.85	Bromide	0.474	0.168	0.47	2.133	M
4	6.68	Nitrate as [N]	6.415	2.659	7.37	4.985	MB
5	10.14	Sulfate	37.425	19.396	53.78	98.943	BMB
Total:			92.811	36.070	100.00	156.835	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

46 CCV4

Sample Name:	**CCV4**	*Injection Volume:*	**20.0**
Vial Number:	**33**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 14:08**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



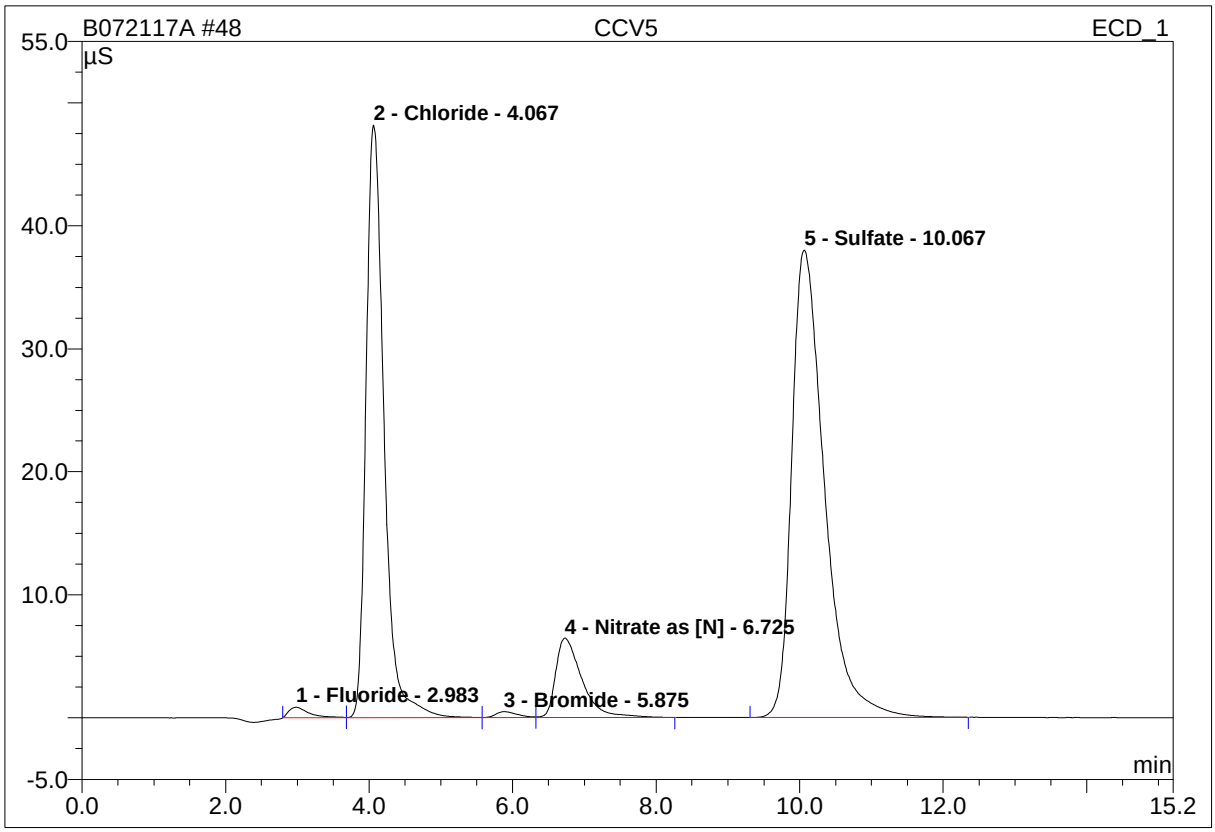
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	0.973	0.281	0.77	0.959	BMB
2	4.09	Chloride	46.638	13.677	37.57	50.197	bMB
3	5.93	Bromide	0.461	0.164	0.45	2.085	BM
4	6.78	Nitrate as [N]	6.271	2.660	7.31	4.987	MB
5	10.12	Sulfate	37.304	19.626	53.91	100.039	BMB
Total:			91.646	36.408	100.00	158.267	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

48 CCV5

Sample Name:	**CCV5**	*Injection Volume:*	**20.0**
Vial Number:	**35**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/23/2017 18:52**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



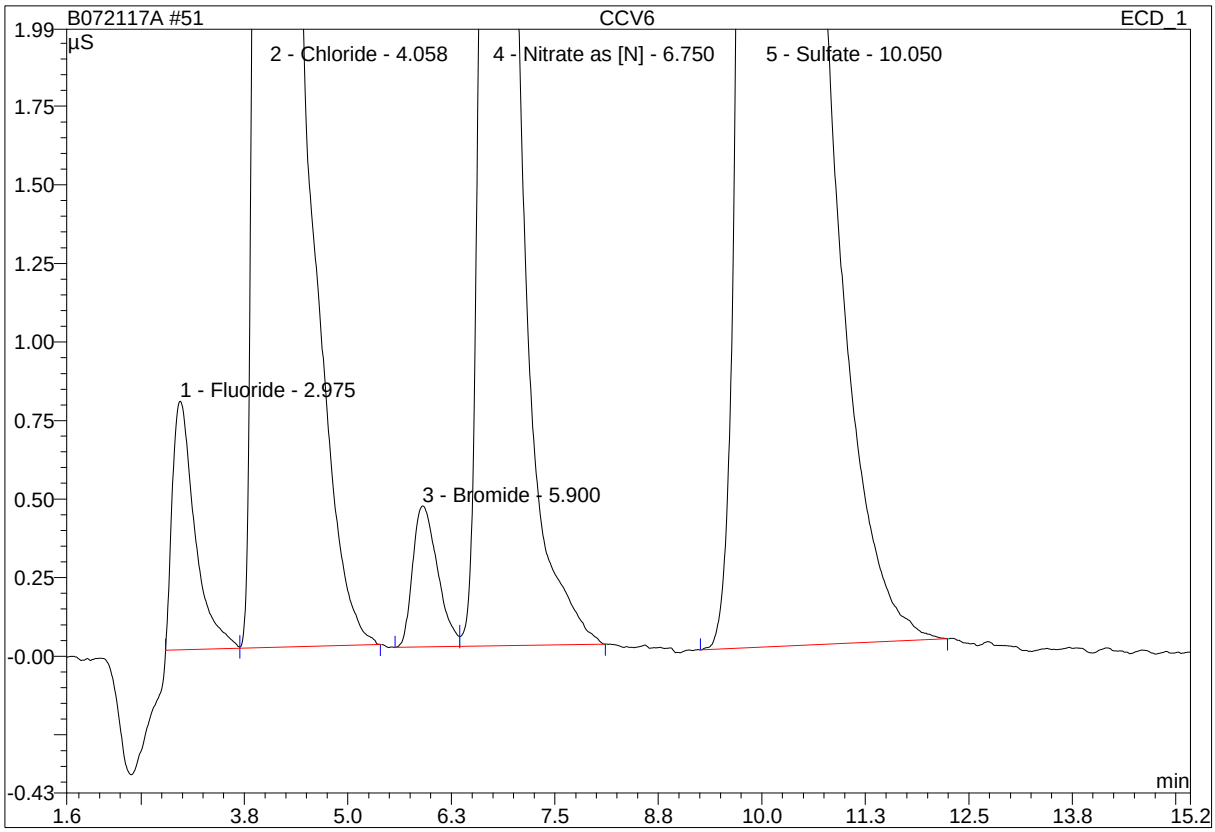
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	0.843	0.272	0.73	0.931	BM
2	4.07	Chloride	48.165	14.000	37.65	51.308	M
3	5.88	Bromide	0.477	0.166	0.45	2.106	M
4	6.73	Nitrate as [N]	6.450	2.724	7.33	5.099	MB
5	10.07	Sulfate	38.001	20.019	53.84	101.911	BMB
Total:			93.936	37.181	100.00	161.355	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

51 CCV6

Sample Name:	**CCV6**	*Injection Volume:*	**20.0**
Vial Number:	**34**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/23/2017 19:45**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



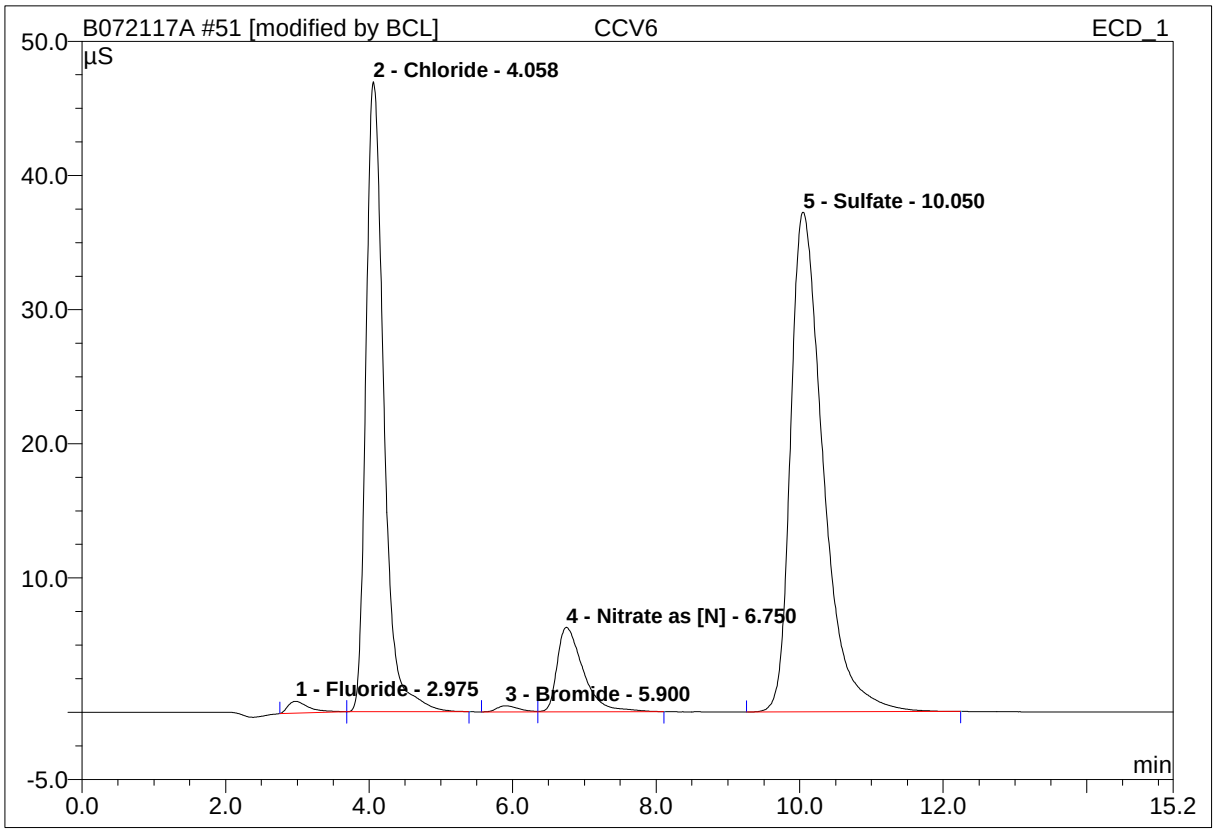
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	0.792	0.251	0.69	0.862	BM
2	4.06	Chloride	46.967	13.591	37.58	49.902	MB
3	5.90	Bromide	0.448	0.156	0.43	1.991	BM
4	6.75	Nitrate as [N]	6.295	2.642	7.30	4.955	MB
5	10.05	Sulfate	37.231	19.529	53.99	99.573	BMB
Total:			91.732	36.168	100.00	157.284	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

51 CCV6

Sample Name:	**CCV6**	*Injection Volume:*	**20.0**
Vial Number:	**34**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/23/2017 19:45**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	0.875	0.295	0.82	1.006	BM *
2	4.06	Chloride	46.958	13.581	37.51	49.866	MB*
3	5.90	Bromide	0.448	0.156	0.43	1.991	BM
4	6.75	Nitrate as [N]	6.295	2.642	7.30	4.955	MB
5	10.05	Sulfate	37.231	19.529	53.94	99.573	BMB
Total:			91.807	36.202	100.00	157.392	

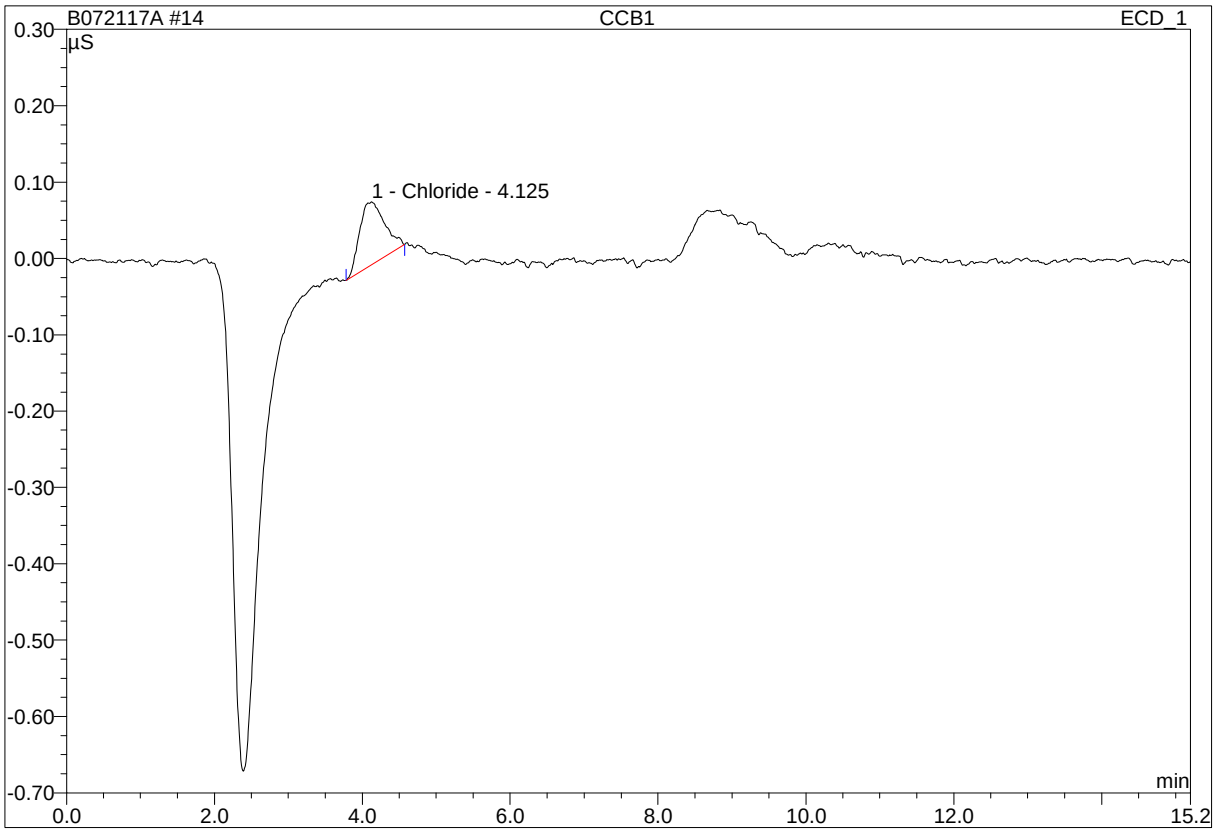
modified on: 07.23.17 22:16 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - CCB

14 CCB1

Sample Name:	**CCB1**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 4:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



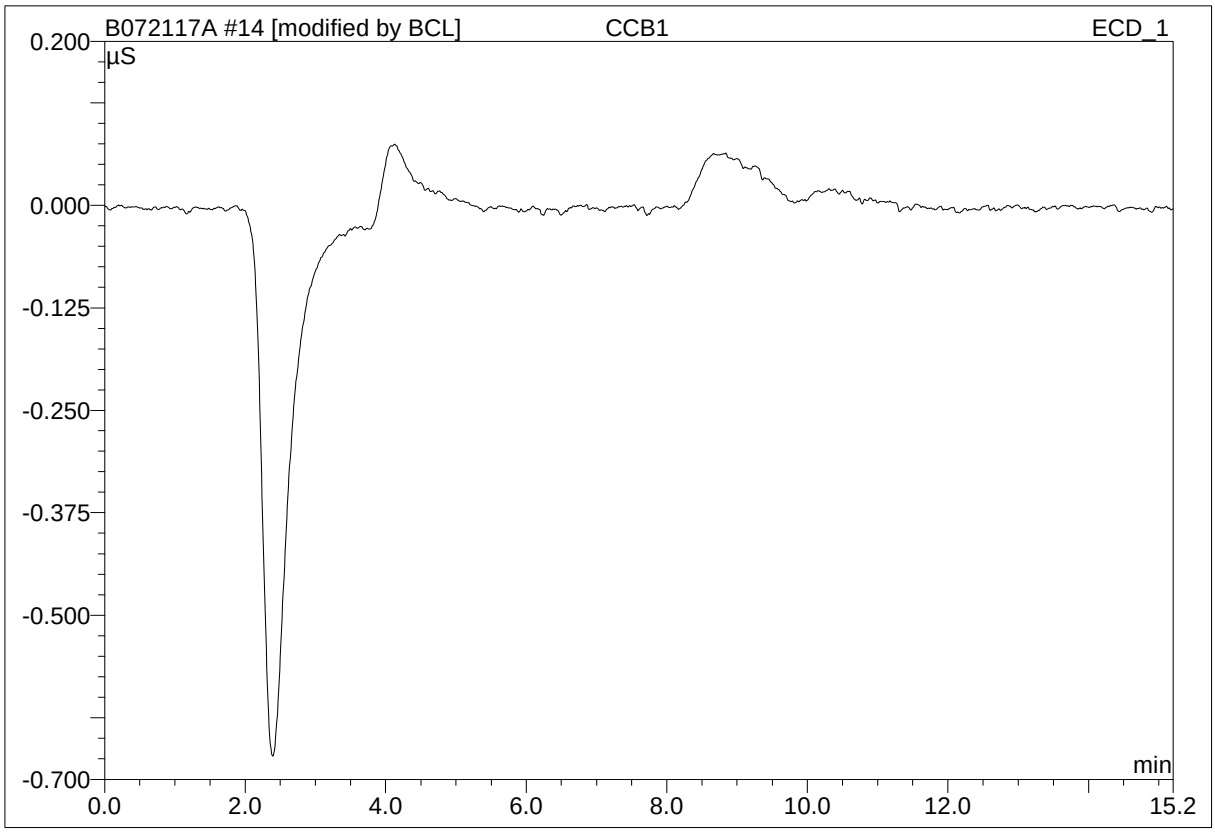
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.13	Chloride	0.083	0.033	100.00	0.095	BMB
Total:			0.083	0.033	100.00	0.095	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

14 CCB1

Sample Name:	**CCB1**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 4:38**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



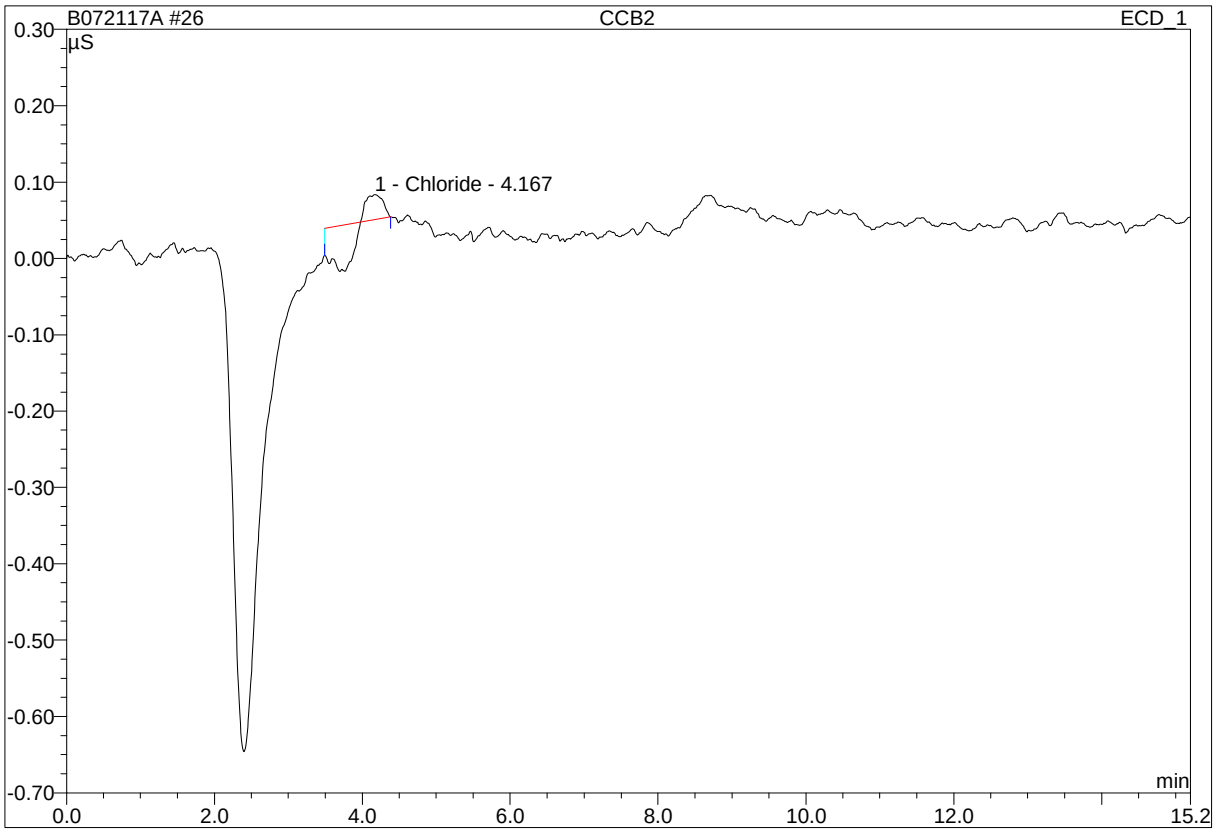
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.23.17 18:01 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

26 CCB2

Sample Name:	**CCB2**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 8:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



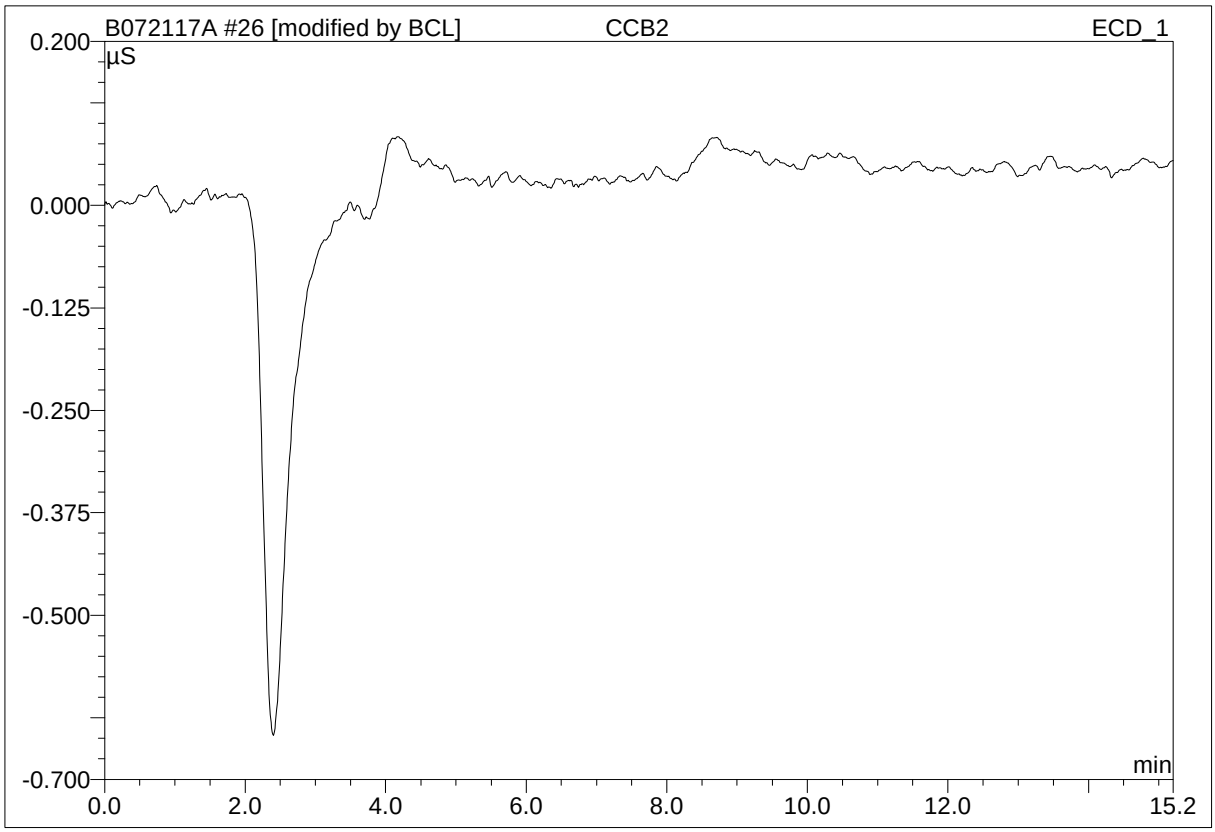
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.17	Chloride	0.033	0.013	100.00	0.017	MB
Total:			0.033	0.013	100.00	0.017	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

26 CCB2

Sample Name:	**CCB2**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 8:12**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



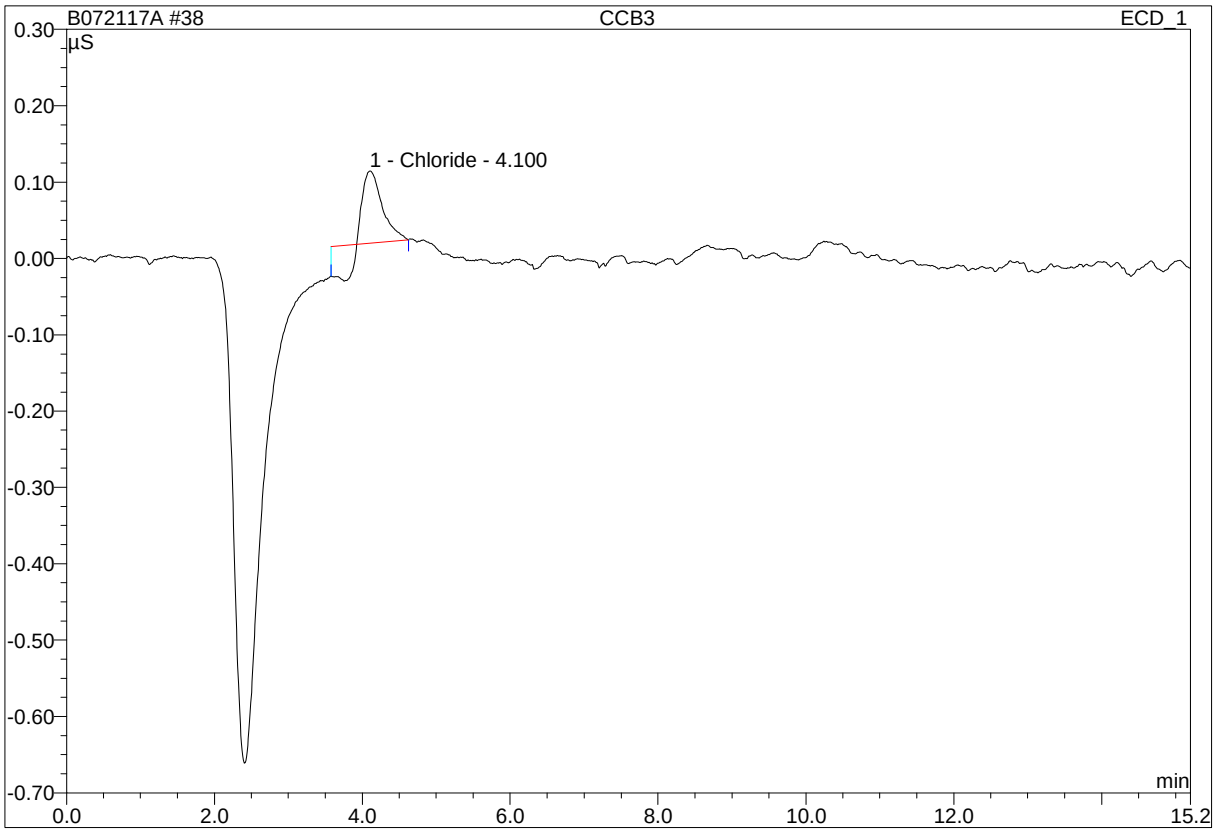
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.23.17 18:05 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

38 CCB3

Sample Name:	**CCB3**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 11:46**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



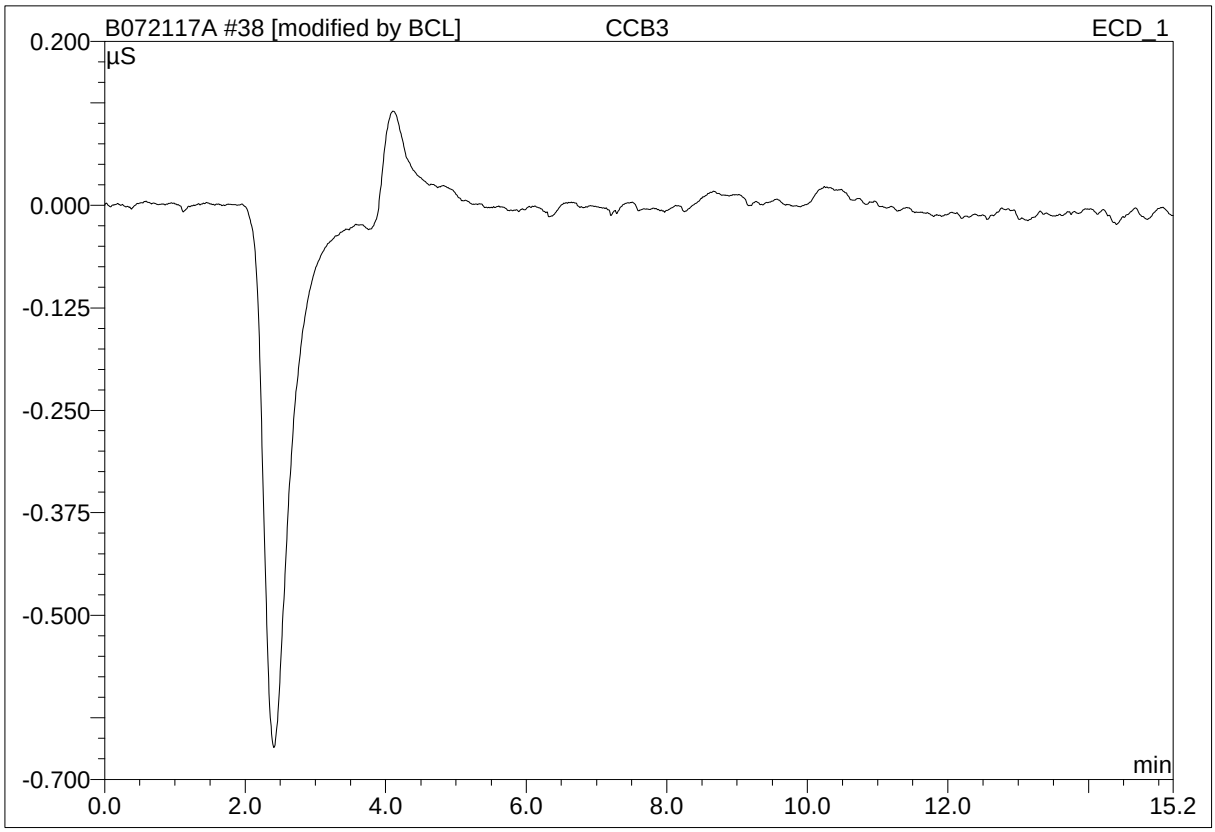
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.10	Chloride	0.095	0.016	100.00	0.030	MB
Total:			0.095	0.016	100.00	0.030	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

38 CCB3

Sample Name:	**CCB3**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 11:46**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



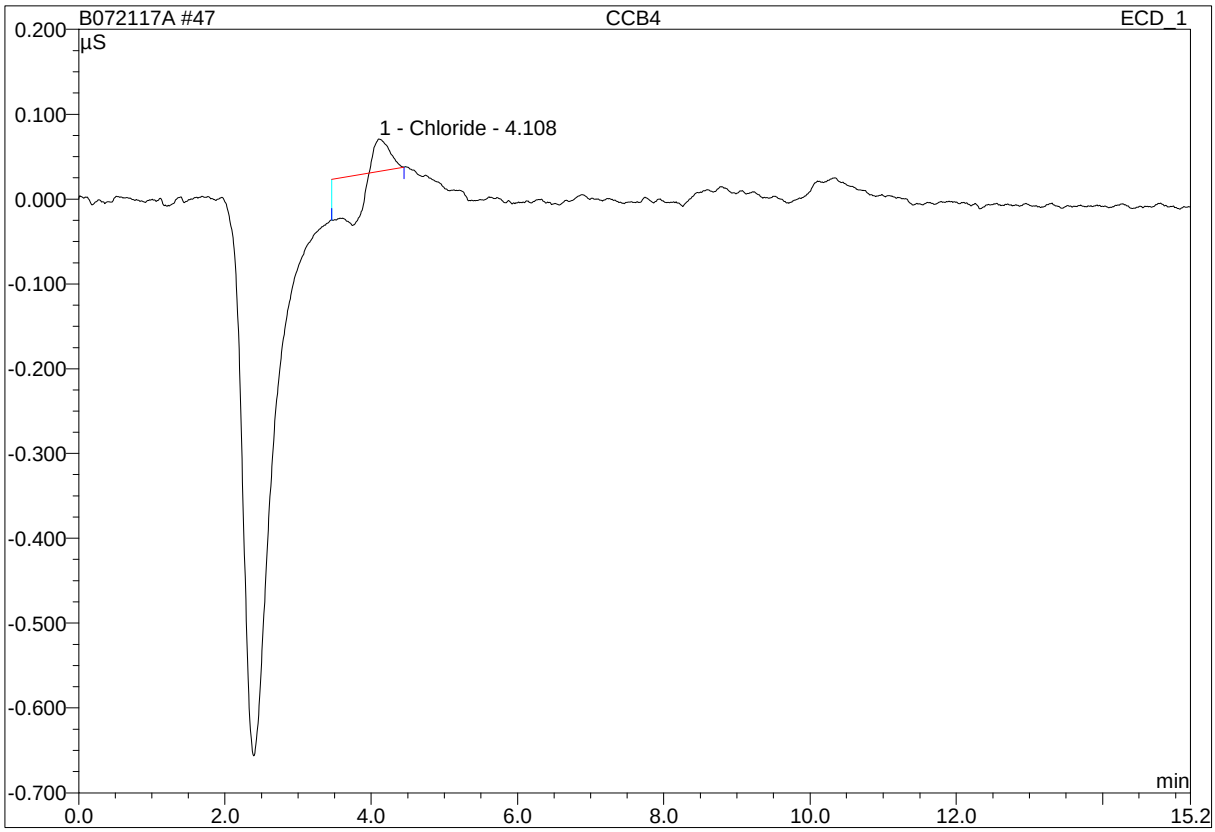
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.23.17 18:07 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

47 CCB4

Sample Name:	**CCB4**	*Injection Volume:*	**20.0**
Vial Number:	**33**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 14:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



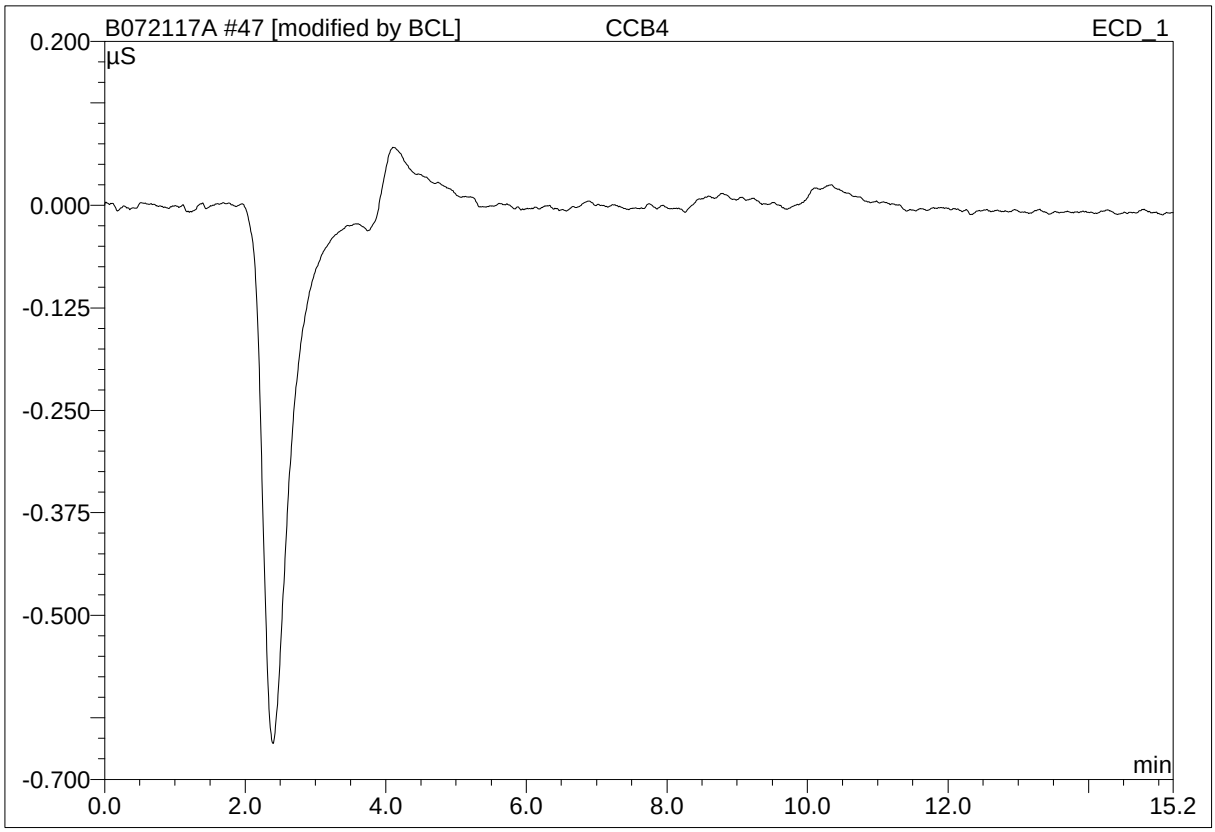
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.11	Chloride	0.038	0.014	100.00	0.021	MB
Total:			0.038	0.014	100.00	0.021	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

47 CCB4

Sample Name:	**CCB4**	*Injection Volume:*	**20.0**
Vial Number:	**33**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 14:26**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



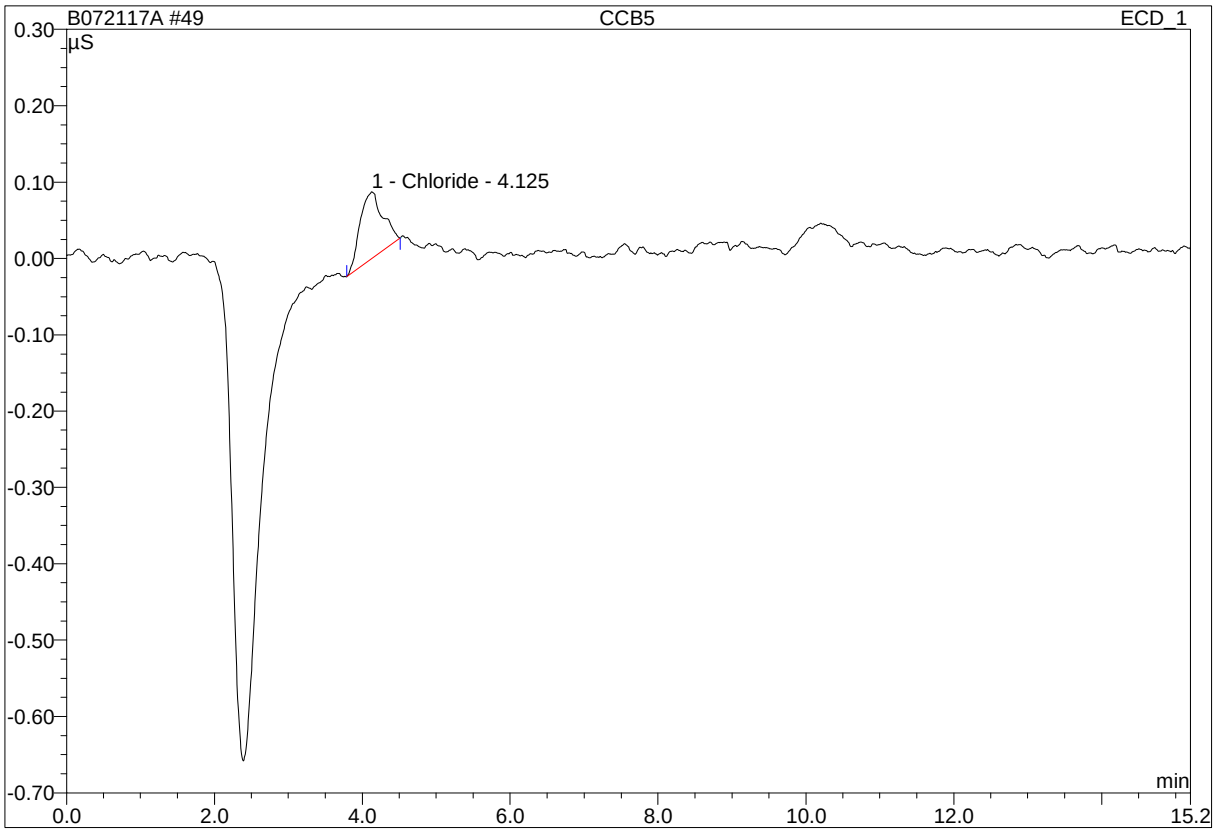
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.23.17 18:09 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

49 CCB5

Sample Name:	**CCB5**	*Injection Volume:*	**20.0**
Vial Number:	**35**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/23/2017 19:10**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



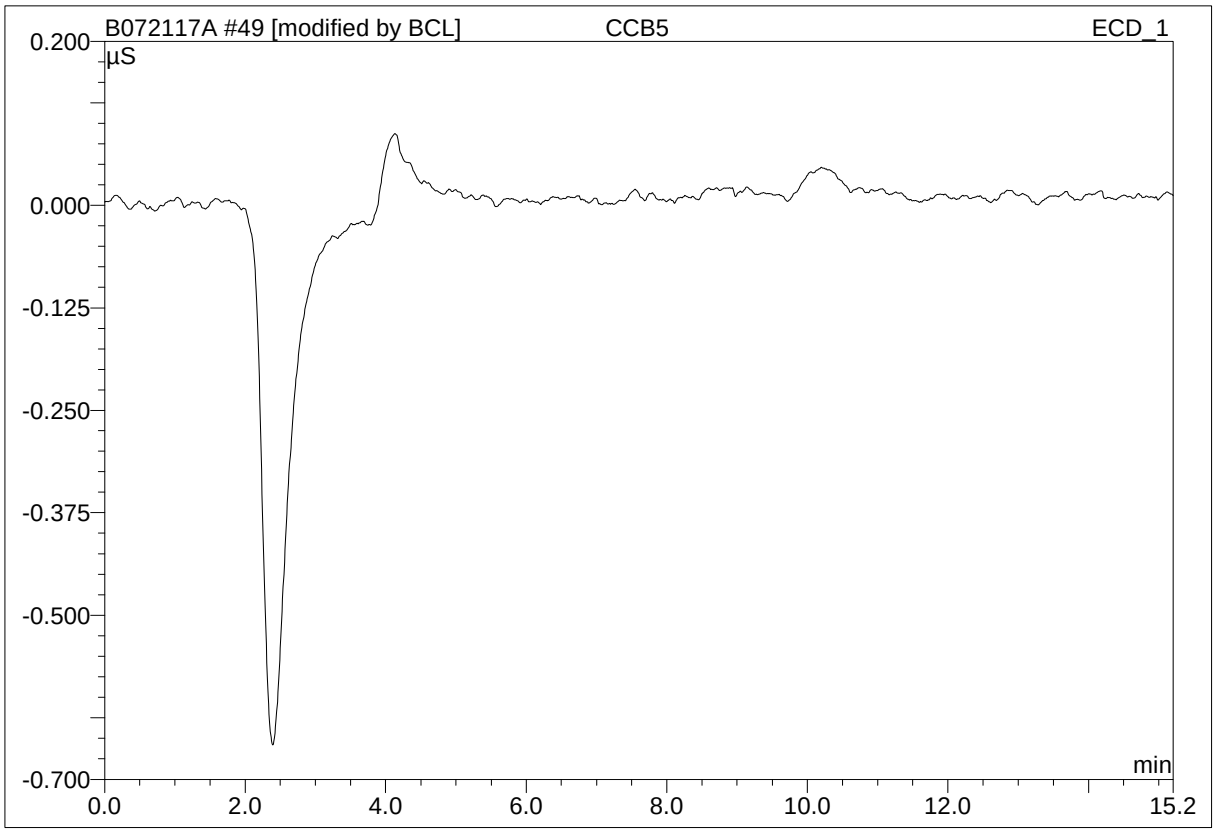
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.13	Chloride	0.088	0.032	100.00	0.091	BMB
Total:			0.088	0.032	100.00	0.091	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

49 CCB5

Sample Name:	**CCB5**	*Injection Volume:*	**20.0**
Vial Number:	**35**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/23/2017 19:10**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



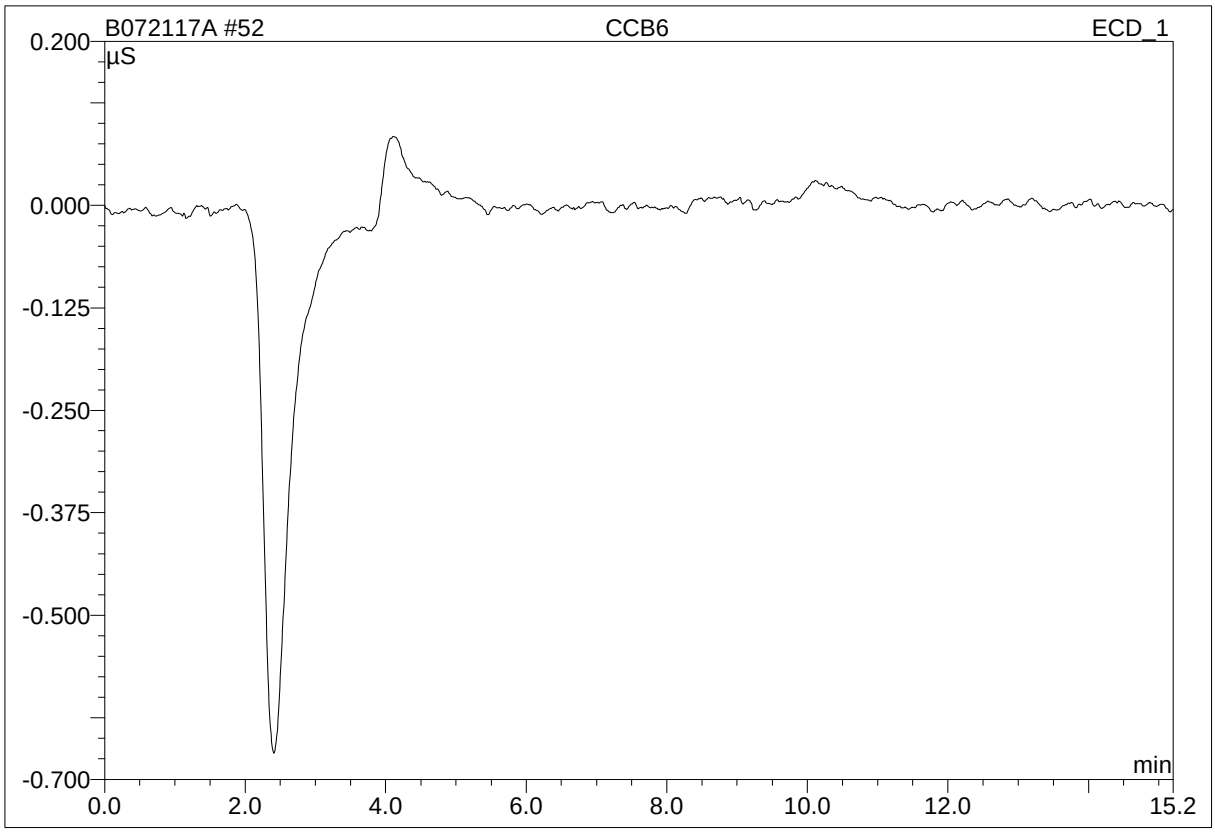
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: 07.23.17 22:16 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

52 CCB6

Sample Name:	**CCB6**	*Injection Volume:*	**20.0**
Vial Number:	**34**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/23/2017 20:03**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

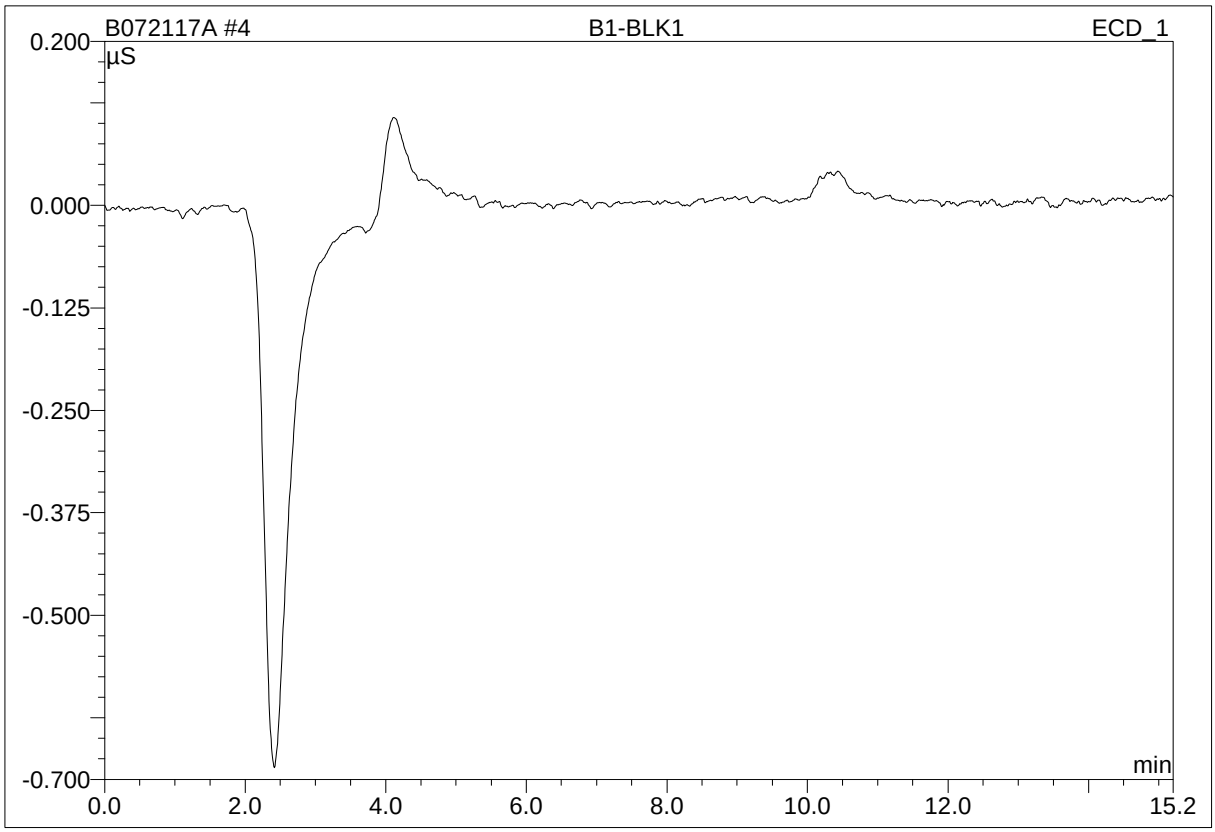
modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - Method Blank

4 B1-BLK1

Sample Name:	**B1-BLK1**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 1:40**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



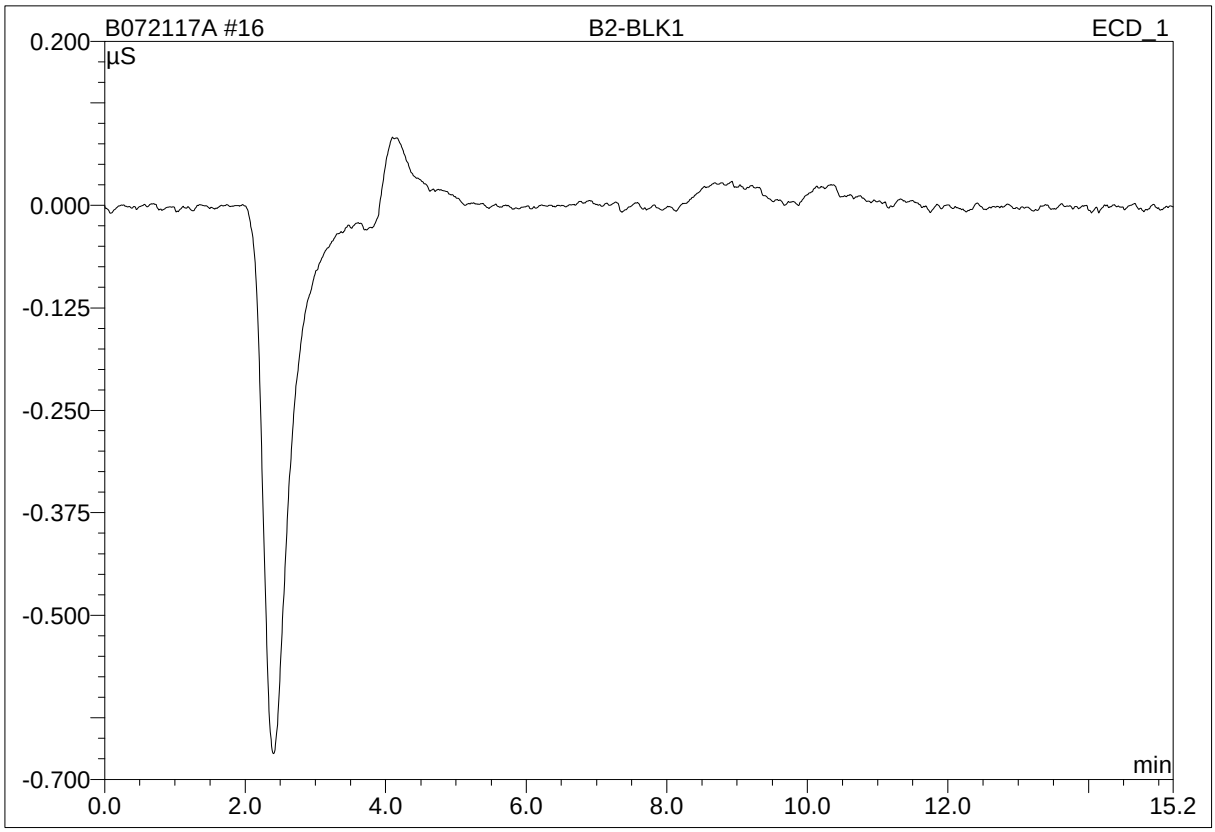
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

16 B2-BLK1

Sample Name:	**B2-BLK1**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 5:14**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
Total:			0.000	0.000	0.00	0.000	

modified on: n.a. by: OLH/EMW/JSW

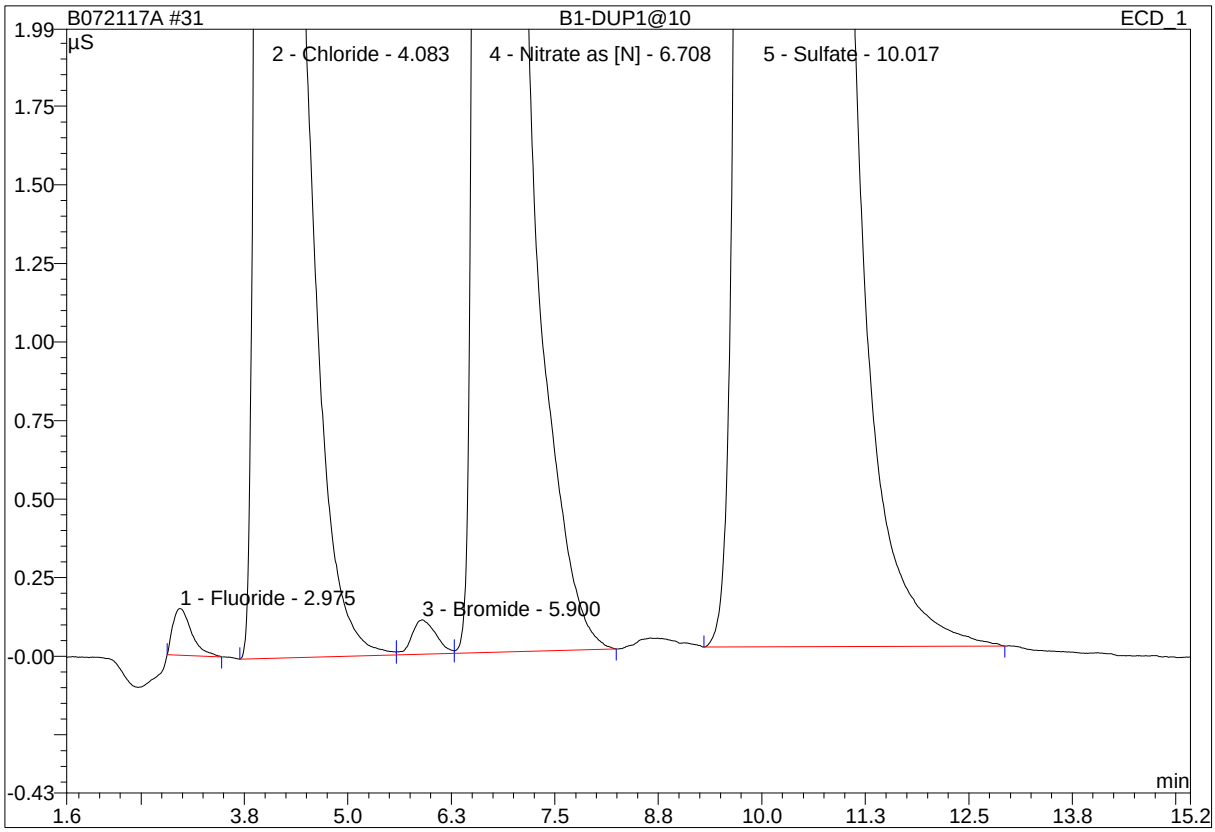
* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - Duplicate

31 B1-DUP1@10

110-12

Sample Name:	**B1-DUP1@10**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 9:41**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	0.148	0.039	0.05	0.160	BMB
2	4.08	Chloride	42.705	12.290	15.30	45.396	BM
3	5.90	Bromide	0.109	0.037	0.05	0.500	M
4	6.71	Nitrate as [N]	18.246	7.473	9.30	12.695	MB
5	10.02	Sulfate	109.248	60.505	75.31	275.570	BMB
Total:			170.457	80.344	100.00	334.323	

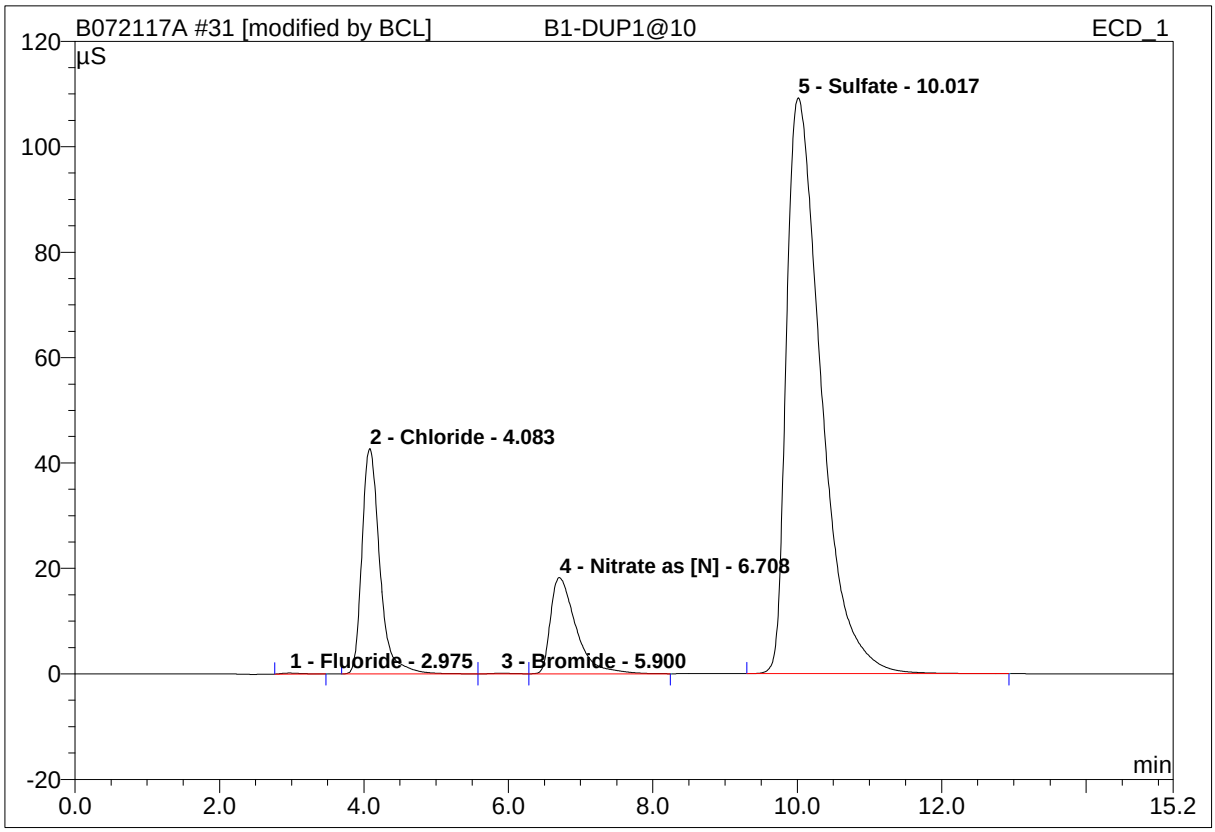
modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

31 B1-DUP1@10

110-12

Sample Name:	**B1-DUP1@10**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 9:41**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	0.182	0.055	0.07	0.213	BMB*
2	4.08	Chloride	42.705	12.290	15.29	45.396	BM
3	5.90	Bromide	0.109	0.037	0.05	0.500	M
4	6.71	Nitrate as [N]	18.246	7.473	9.30	12.695	MB
5	10.02	Sulfate	109.248	60.505	75.29	275.570	BMB
Total:			170.490	80.360	100.00	334.375	

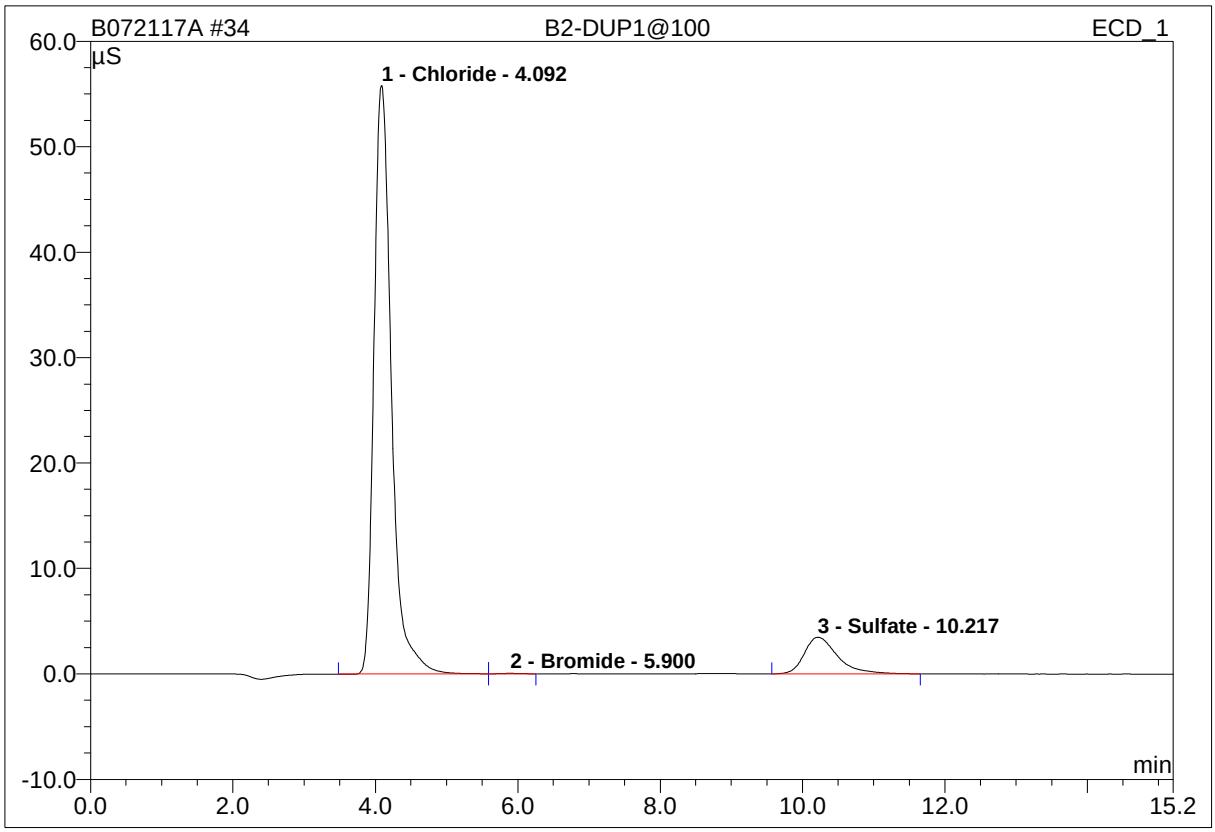
modified on: 07.23.17 18:06 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

34 B2-DUP1@100

121-1

Sample Name:	**B2-DUP1@100**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 10:34**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	4.09	Chloride	55.784	15.810	89.28	57.470	M
2	5.90	Bromide	0.045	0.015	0.08	0.216	MB
3	10.22	Sulfate	3.474	1.884	10.64	10.396	BMB
Total:			59.302	17.709	100.00	68.082	

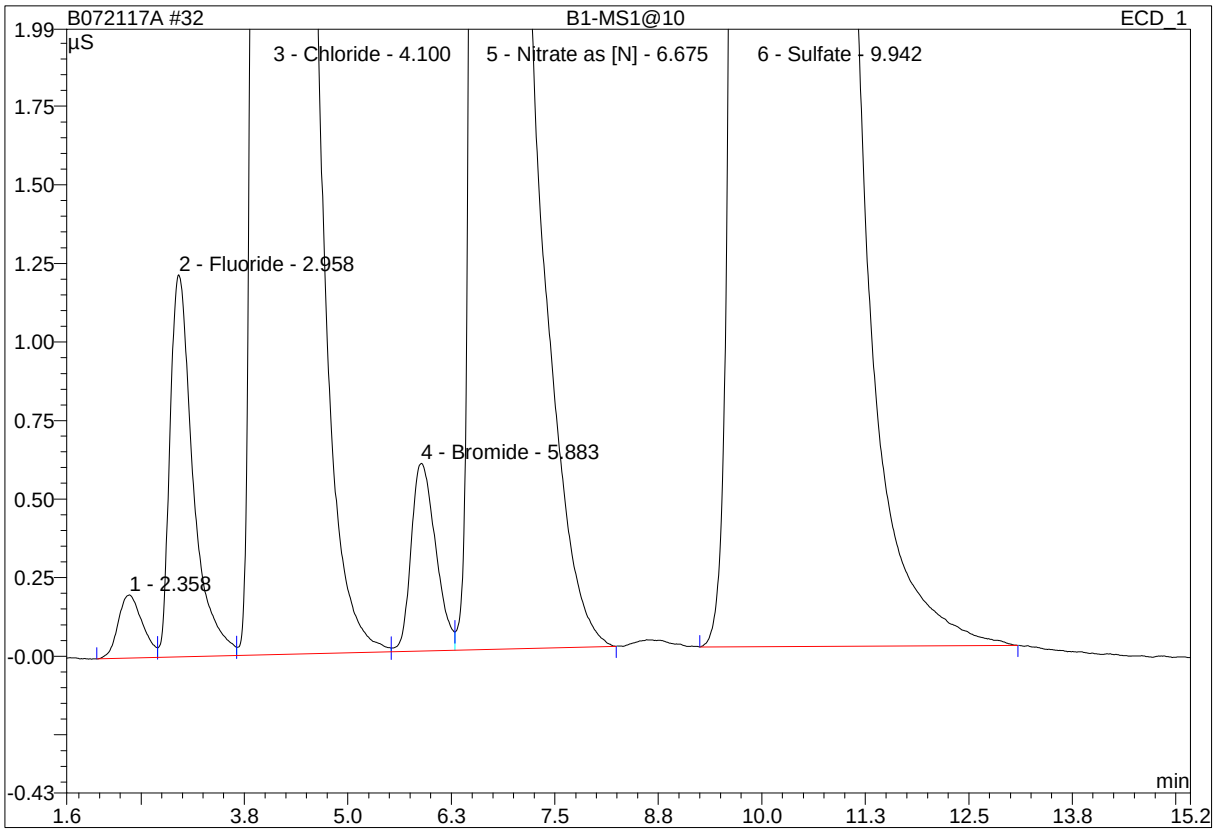
modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - Matrix Spike

32 B1-MS1@10

Sample Name:	**B1-MS1@10**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 9:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



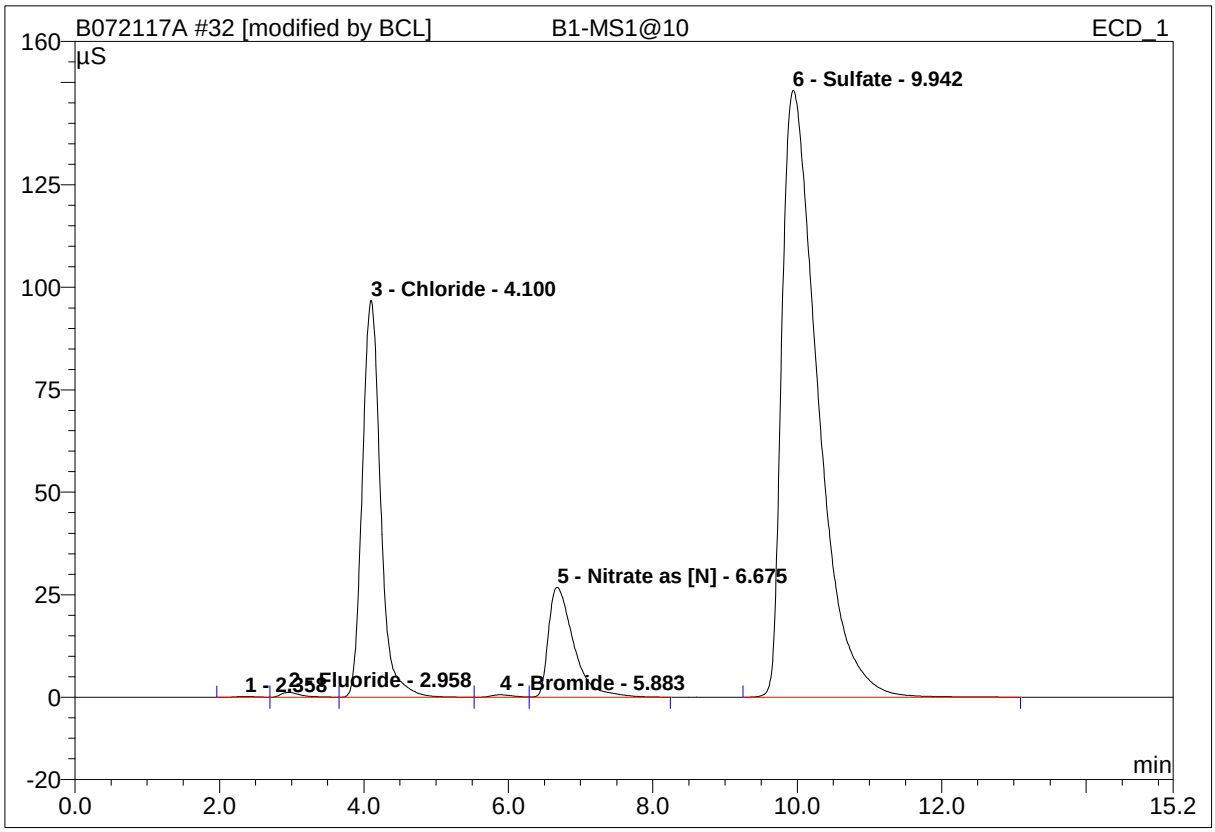
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.36	n.a.	0.201	0.068	0.05	n.a.	BM
2	2.96	Fluoride	1.216	0.395	0.32	1.328	M
3	4.10	Chloride	96.815	28.427	22.82	98.063	M
4	5.88	Bromide	0.597	0.205	0.16	2.574	M
5	6.68	Nitrate as [N]	26.792	10.872	8.73	17.457	MB
6	9.94	Sulfate	148.008	84.628	67.92	365.614	BMB
Total:			273.628	124.595	100.00	485.036	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

32 B1-MS1@10

Sample Name:	**B1-MS1@10**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 9:59**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



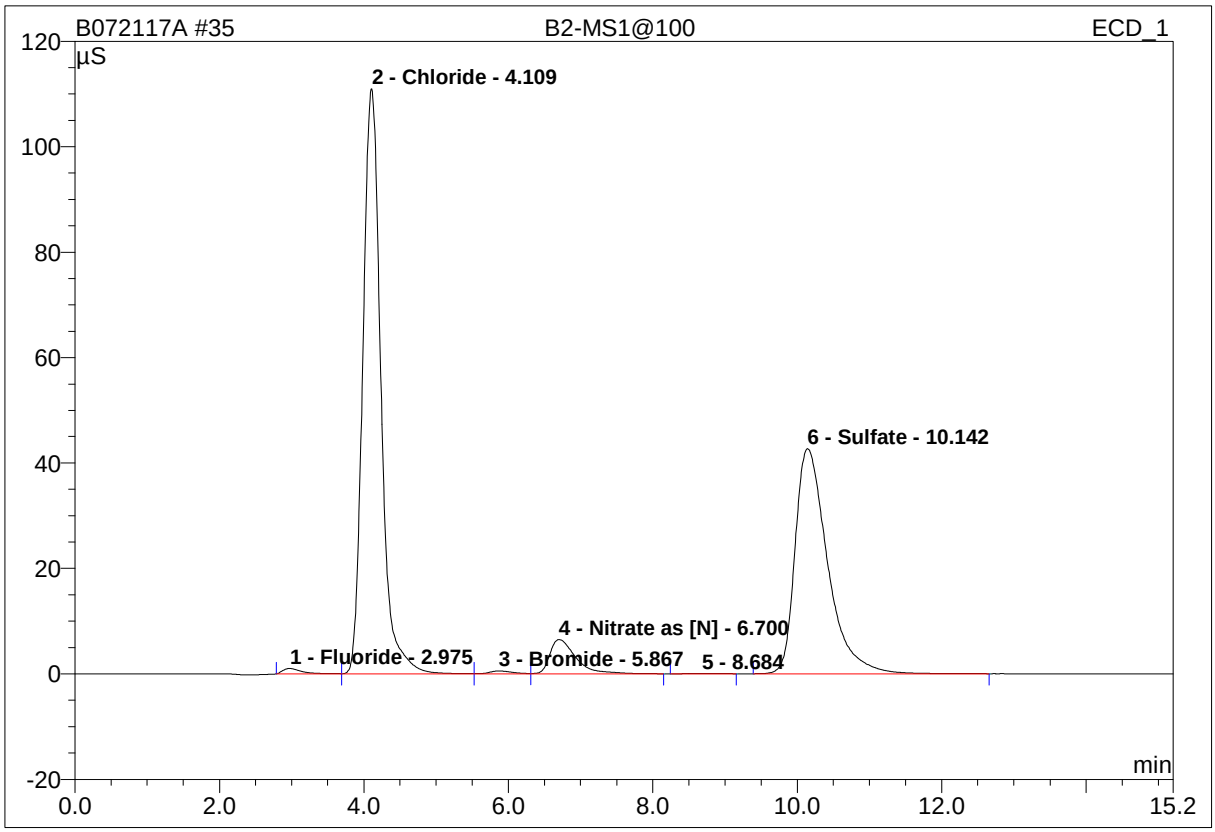
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.36	n.a.	0.182	0.055	0.04	n.a.	BM *
2	2.96	Fluoride	1.183	0.365	0.29	1.233	Mb*
3	4.10	Chloride	96.792	28.388	22.80	97.944	bM *
4	5.88	Bromide	0.583	0.195	0.16	2.454	M *
5	6.68	Nitrate as [N]	26.783	10.862	8.72	17.443	MB*
6	9.94	Sulfate	148.008	84.628	67.98	365.614	BMB
Total:			273.531	124.493	100.00	484.688	

modified on: 07.23.17 18:06 by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

35 B2-MS1@100

Sample Name:	**B2-MS1@100**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 10:52**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	1.010	0.295	0.51	1.006	BM
2	4.11	Chloride	110.981	32.106	55.80	109.220	M
3	5.87	Bromide	0.536	0.191	0.33	2.410	M
4	6.70	Nitrate as [N]	6.502	2.703	4.70	5.063	MB
5	8.68	n.a.	0.024	0.011	0.02	n.a.	BMB
6	10.14	Sulfate	42.663	22.228	38.63	112.349	BMB
Total:			161.716	57.534	100.00	230.048	

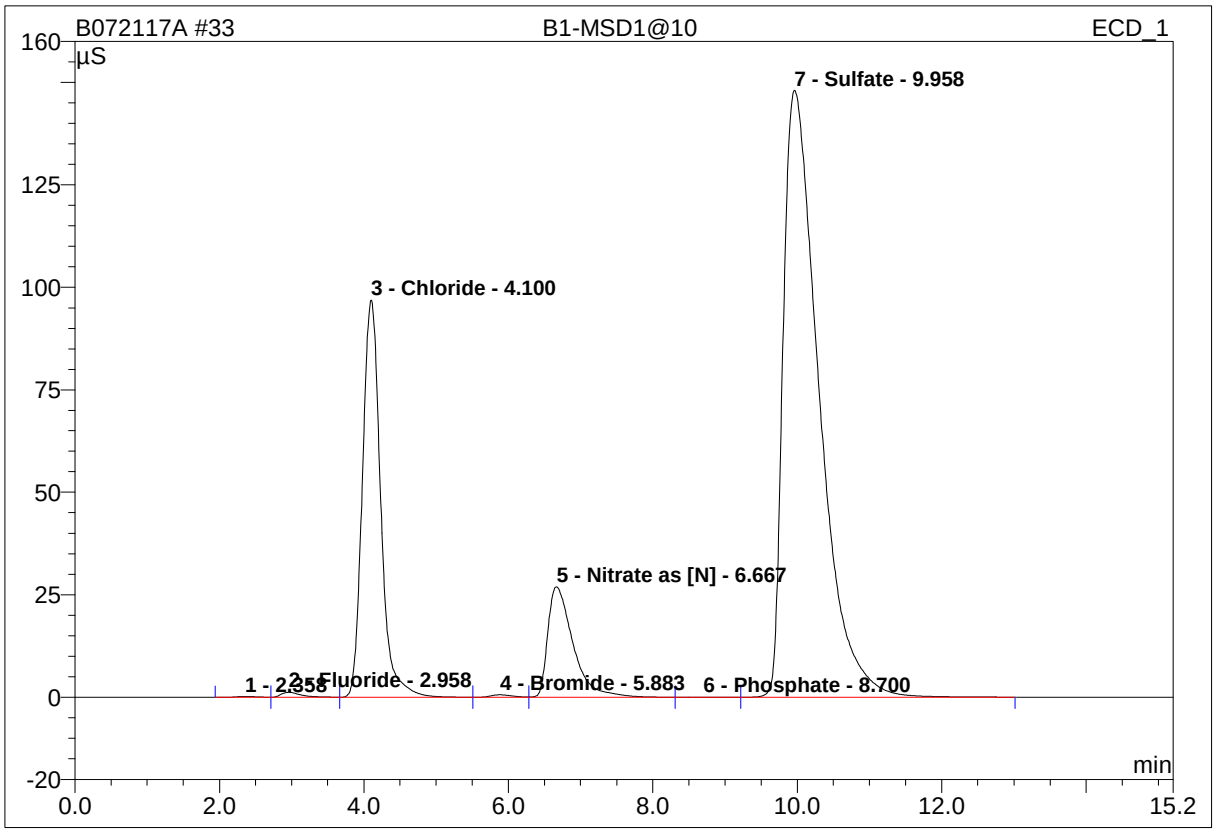
modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - Matrix Spike Duplicate

33 B1-MSD1@10

Sample Name:	**B1-MSD1@10**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 10:17**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.36	n.a.	0.204	0.071	0.06	n.a.	BM
2	2.96	Fluoride	1.233	0.404	0.32	1.358	M
3	4.10	Chloride	96.951	28.399	22.78	97.977	M
4	5.88	Bromide	0.607	0.211	0.17	2.650	M
5	6.67	Nitrate as [N]	26.919	10.904	8.75	17.500	M
6	8.70	Phosphate	0.027	0.015	0.01	n.a.	M
7	9.96	Sulfate	147.972	84.662	67.91	365.734	MB
Total:			273.913	124.667	100.00	485.219	

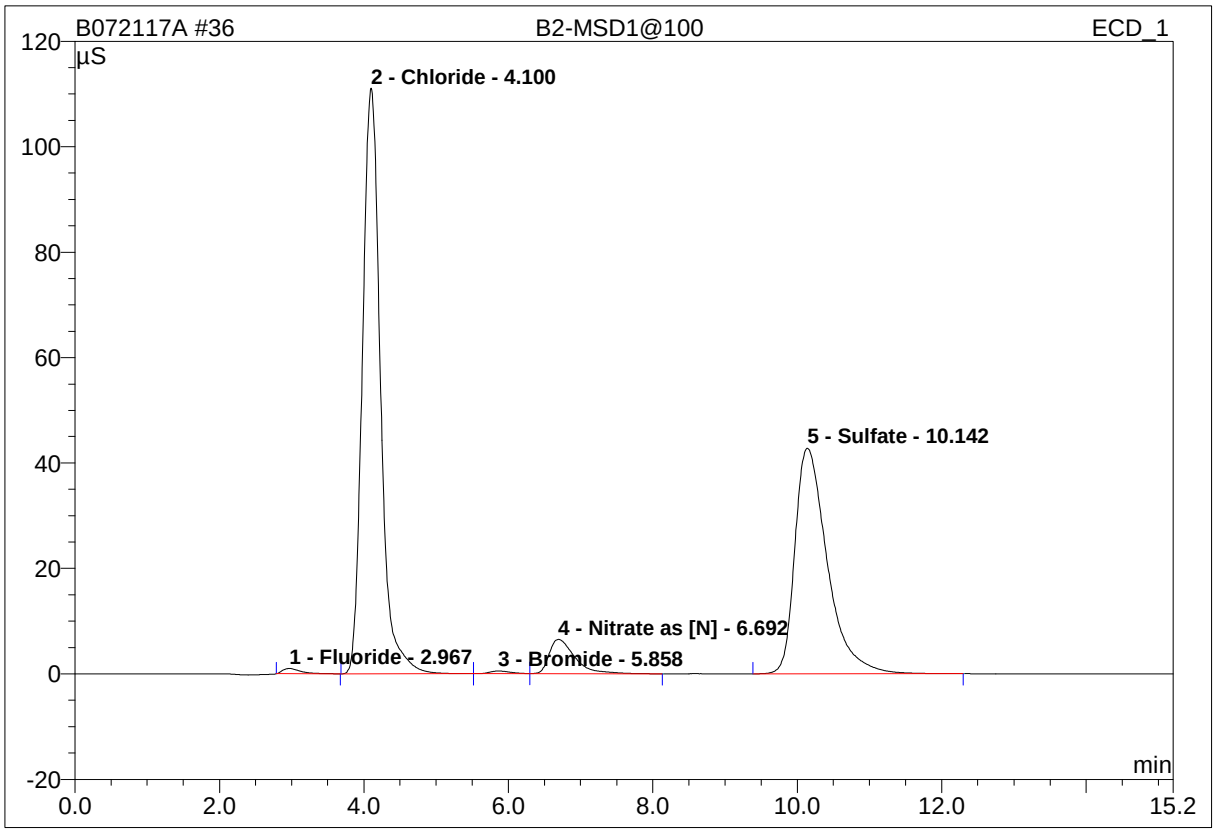
modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider

BMB = This peak type is for resolved peaks.

36 B2-MSD1@100

Sample Name:	**B2-MSD1@100**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 11:10**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.97	Fluoride	0.998	0.284	0.49	0.972	BMB
2	4.10	Chloride	111.084	32.109	55.86	109.231	BMb
3	5.86	Bromide	0.512	0.176	0.31	2.226	bM
4	6.69	Nitrate as [N]	6.513	2.691	4.68	5.041	MB
5	10.14	Sulfate	42.785	22.220	38.66	112.309	BMB
Total:			161.891	57.480	100.00	229.779	

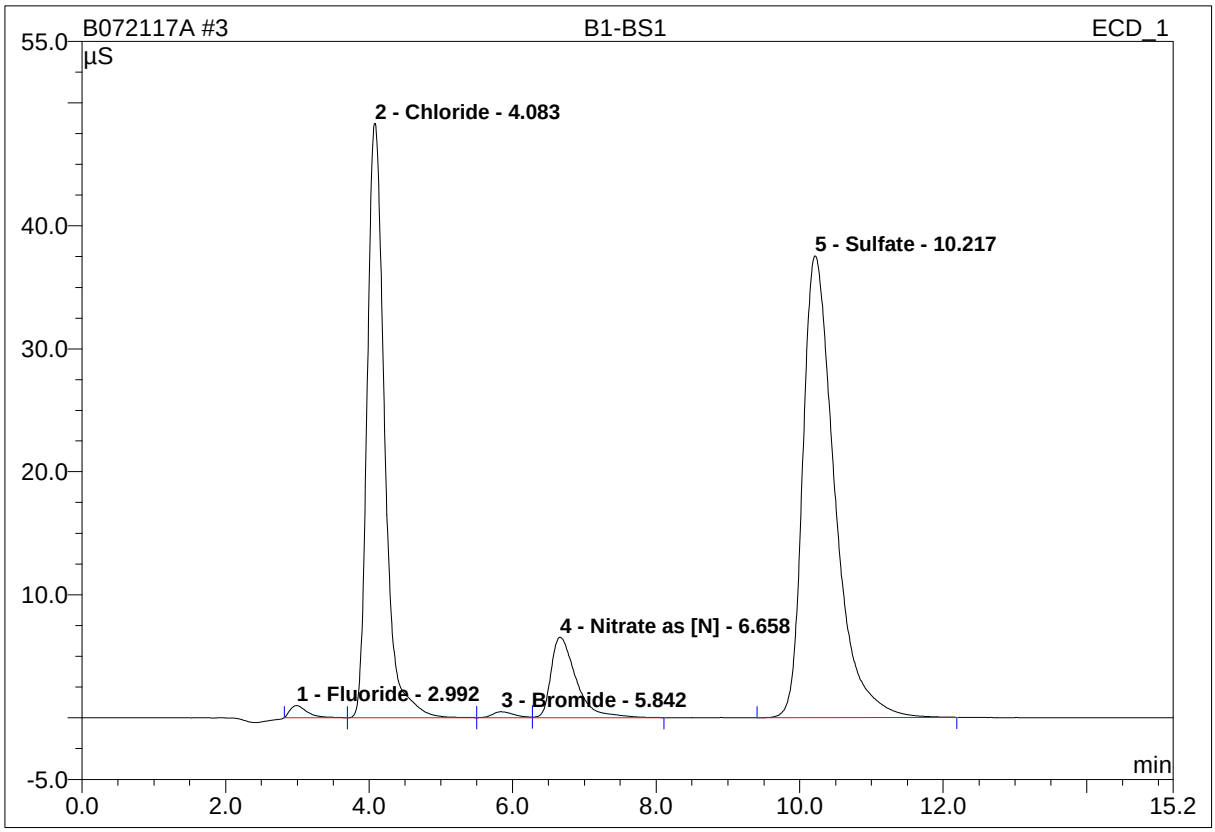
modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - Lab Control Sample

3 B1-BS1

Sample Name:	**B1-BS1**	*Injection Volume:*	**20.0**
Vial Number:	**18**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 1:22**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



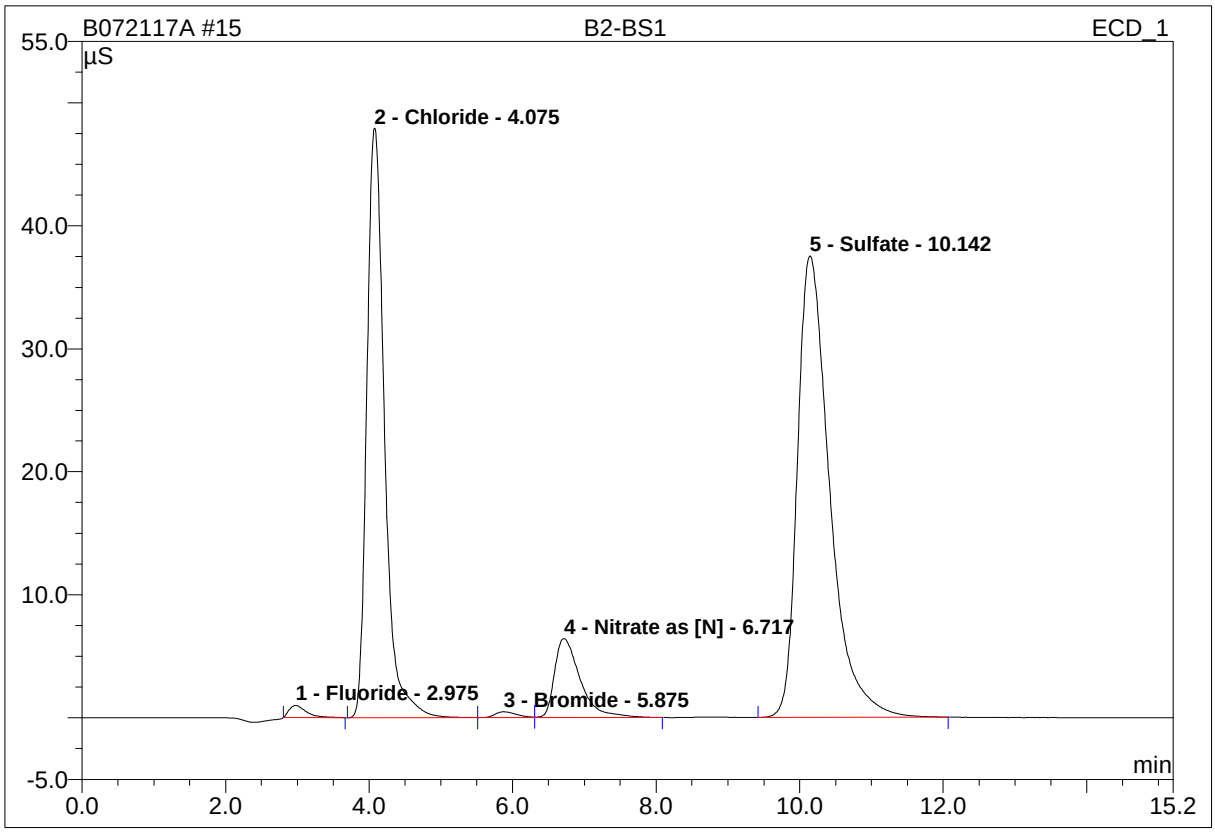
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.99	Fluoride	0.991	0.279	0.78	0.954	BM
2	4.08	Chloride	48.322	13.544	37.67	49.739	M
3	5.84	Bromide	0.484	0.169	0.47	2.141	M
4	6.66	Nitrate as [N]	6.537	2.646	7.36	4.963	MB
5	10.22	Sulfate	37.546	19.313	53.72	98.544	BMB
Total:			93.879	35.951	100.00	156.341	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

15 B2-BS1

Sample Name:	**B2-BS1**	*Injection Volume:*	**20.0**
Vial Number:	**30**	*Channel:*	**IC2**
Sample Type:	**unknown**	*Wavelength:*	**n.a.**
Control Program:	**IC2**	*Bandwidth:*	**n.a.**
Quantif. Method:	**IC2 ANION**	*Dilution Factor:*	**1.0000**
Recording Time:	**7/22/2017 4:56**	*Sample Weight:*	**1.0000**
Run Time (min):	**15.20**	*Sample Amount:*	**1.0000**



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount ppm	Type
1	2.98	Fluoride	0.976	0.271	0.75	0.927	BMB
2	4.08	Chloride	47.923	13.665	37.69	50.156	BM
3	5.88	Bromide	0.472	0.165	0.45	2.094	M
4	6.72	Nitrate as [N]	6.425	2.667	7.35	4.999	MB
5	10.14	Sulfate	37.525	19.488	53.75	99.381	BMB
Total:			93.320	36.255	100.00	157.556	

modified on: n.a. by: OLH/EMW/JSW

* = Manual integration due to peak, rider, or baseline error.
B = Baseline with direct contact on the left or right side of peak
b = Baseline is below non resolved peaks drawn from peak end to peak end.
M = Main
R = Rider
BMB = This peak type is for resolved peaks.

Raw Data - Batch Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G1831

BC Laboratories

Printed: 8/22/2017 1:10:14PM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720110-02 D	i300.0w Nitrate as N	7/217	EMW	20	20					
1720110-02 D	i300.0w Sulfate	7/217	EMW	20	20					
1720110-02 D	i300.0w Chloride	7/217	EMW	20	20					
1720110-02RE1 D	i300.0w Chloride	7/217	EMW	20	20					
1720110-02RE1 D	i300.0w Nitrate as N	7/217	EMW	20	20					
1720110-02RE1 D	i300.0w Sulfate	7/217	EMW	20	20					
1720110-03 D	i300.0w Chloride	7/217	EMW	20	20					
1720110-03 D	i300.0w Nitrate as N	7/217	EMW	20	20					
1720110-03 D	i300.0w Sulfate	7/217	EMW	20	20					
1720110-03RE1 D	i300.0w Sulfate	7/217	EMW	20	20					
1720110-03RE1 D	i300.0w Chloride	7/217	EMW	20	20					
1720110-03RE1 D	i300.0w Nitrate as N	7/217	EMW	20	20					
1720110-10 D	i300.0w Sulfate	7/217	EMW	20	20					
1720110-10 D	i300.0w Chloride	7/217	EMW	20	20					
1720110-10 D	i300.0w Nitrate as N	7/217	EMW	20	20					
1720110-11 D	i300.0w Chloride	7/217	EMW	20	20					
1720110-11 D	i300.0w Nitrate as N	7/217	EMW	20	20					
1720110-11 D	i300.0w Sulfate	7/217	EMW	20	20					
1720110-12 L	i300.0w Chloride	7/217	EMW	20	20					
1720110-12 L	i300.0w Nitrate as N	7/217	EMW	20	20					
1720110-12 L	i300.0w Sulfate	7/217	EMW	20	20					
1720121-14 G	i300.0w Chloride	7/217	EMW	20	20					
1720121-14 G	i300.0w Nitrate as N	7/217	EMW	20	20					
1720121-14 G	i300.0w Sulfate	7/217	EMW	20	20					
1720122-03 L	i300.0w Sulfate	7/217	EMW	20	20					
1720122-03 L	i300.0w Chloride	7/217	EMW	20	20					
1720122-03 L	i300.0w Nitrate as N	7/217	EMW	20	20					
1720122-03RE1 L	i300.0w Chloride	7/217	EMW	20	20					
1720122-03RE1 L	i300.0w Nitrate as N	7/217	EMW	20	20					
1720122-03RE1 L	i300.0w Sulfate	7/217	EMW	20	20					
1720122-04 L	i300.0w Chloride	7/217	EMW	20	20					
1720122-04 L	i300.0w Nitrate as N	7/217	EMW	20	20					
1720122-04 L	i300.0w Sulfate	7/217	EMW	20	20					
1720122-05 I	i300.0w Chloride	7/217	EMW	20	20					
1720122-05 I	i300.0w Nitrate as N	7/217	EMW	20	20					
1720122-05 I	i300.0w Sulfate	7/217	EMW	20	20					
1720122-06 I	i300.0w Nitrate as N	7/217	EMW	20	20					
1720122-06 I	i300.0w Sulfate	7/217	EMW	20	20					

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G1831

BC Laboratories

Printed: 8/22/2017 1:10:14PM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720122-06 I	i300.0w Chloride	7/217	EMW	20	20					
1720122-06RE1 I	i300.0w Nitrate as N	7/217	EMW	20	20					
1720122-06RE1 I	i300.0w Sulfate	7/217	EMW	20	20					
1720122-06RE1 I	i300.0w Chloride	7/217	EMW	20	20					
1720122-06RE2 I	i300.0w Chloride	7/217	EMW	20	20					
1720122-06RE2 I	i300.0w Nitrate as N	7/217	EMW	20	20					
1720122-06RE2 I	i300.0w Sulfate	7/217	EMW	20	20					
B[G1831-BLK1	QC	7/217	EMW	20	20					
B[G1831-BS1	QC	7/217	EMW	20	20	7D25031		200		
B[G1831-DUP1	QC	7/217	EMW	20	20		1720110-12			
B[G1831-MS1	QC	7/217	EMW	19.8	20	7D25031	1720110-12	2000		
B[G1831-MSD1	QC	7/217	EMW	19.8	20	7D25031	1720110-12	2000		

Spike Mixes	Description	Solvent	Prepared	Expires
7D25031	300.0 HSSS-SPIKE	DI WATER	4/25/2017 by Emily Wells	10/25/2017

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G1832

BC Laboratories

Printed: 8/22/2017 1:10:14PM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720121-01 T	i300.0w Nitrate as N	7/217	EMW	20	20					
1720121-01 T	i300.0w Sulfate	7/217	EMW	20	20					
1720121-01 T	i300.0w Chloride	7/217	EMW	20	20					
1720121-01RE1 T	i300.0w Chloride	7/217	EMW	20	20					
1720121-01RE1 T	i300.0w Nitrate as N	7/217	EMW	20	20					
1720121-01RE1 T	i300.0w Sulfate	7/217	EMW	20	20					
1720121-03 H	i300.0w Chloride	7/217	EMW	20	20					
1720121-03 H	i300.0w Nitrate as N	7/217	EMW	20	20					
1720121-03 H	i300.0w Sulfate	7/217	EMW	20	20					
1720121-06 G	i300.0w Nitrate as N	7/217	EMW	20	20					
1720121-06 G	i300.0w Sulfate	7/217	EMW	20	20					
1720121-06 G	i300.0w Chloride	7/217	EMW	20	20					
1720121-07 G	i300.0w Nitrate as N	7/217	EMW	20	20					
1720121-07 G	i300.0w Sulfate	7/217	EMW	20	20					
1720121-07 G	i300.0w Chloride	7/217	EMW	20	20					
1720121-07RE1 G	i300.0w Chloride	7/217	EMW	20	20					
1720121-07RE1 G	i300.0w Nitrate as N	7/217	EMW	20	20					
1720121-07RE1 G	i300.0w Sulfate	7/217	EMW	20	20					
1720121-08 G	i300.0w Chloride	7/217	EMW	20	20					
1720121-08 G	i300.0w Nitrate as N	7/217	EMW	20	20					
1720121-08 G	i300.0w Sulfate	7/217	EMW	20	20					
1720121-09 G	i300.0w Sulfate	7/217	EMW	20	20					
1720121-09 G	i300.0w Nitrate as N	7/217	EMW	20	20					
1720121-09 G	i300.0w Chloride	7/217	EMW	20	20					
1720121-10 G	i300.0w Chloride	7/217	EMW	20	20					
1720121-10 G	i300.0w Nitrate as N	7/217	EMW	20	20					
1720121-10 G	i300.0w Sulfate	7/217	EMW	20	20					
1720121-11 H	i300.0w Chloride	7/217	EMW	20	20					
1720121-11 H	i300.0w Nitrate as N	7/217	EMW	20	20					
1720121-11 H	i300.0w Sulfate	7/217	EMW	20	20					
1720121-11RE1 H	i300.0w Sulfate	7/217	EMW	20	20					
1720121-11RE1 H	i300.0w Chloride	7/217	EMW	20	20					
1720121-11RE1 H	i300.0w Nitrate as N	7/217	EMW	20	20					
1720121-12 H	i300.0w Sulfate	7/217	EMW	20	20					
1720121-12 H	i300.0w Chloride	7/217	EMW	20	20					
1720121-12 H	i300.0w Nitrate as N	7/217	EMW	20	20					
1720121-13 H	i300.0w Chloride	7/217	EMW	20	20					
1720121-13 H	i300.0w Nitrate as N	7/217	EMW	20	20					

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G1832

BC Laboratories

Printed: 8/22/2017 1:10:14PM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720121-13 H	i300.0w Sulfate	7/217	EMW	20	20					
B[G1832-BLK1	QC	7/217	EMW	20	20					
B[G1832-BS1	QC	7/217	EMW	20	20	7D25031		200		
B[G1832-DUP1	QC	7/217	EMW	20	20		1720121-01			
B[G1832-MS1	QC	7/217	EMW	19.8	20	7D25031	1720121-01	20000		
B[G1832-MSD1	QC	7/217	EMW	19.8	20	7D25031	1720121-01	20000		

Spike Mixes	Description	Solvent	Prepared	Expires
7D25031	300.0 HSSS-SPIKE	DI WATER	4/25/2017 by Emily Wells	10/25/2017

Raw Data - Sequence Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713199

Instrument: IC2
Calibration ID:
Sequence Date: 07/22/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713199-ICV1	QC		1		7G12051		
1713199-ICB1	QC		2				
B[G1831-BS1	QC		3				
B[G1831-BLK1	QC		4				
1720110-02	i300.0w Chloride	D	5				
1720110-02	i300.0w Nitrate as N	D	5				
1720110-02	i300.0w Sulfate	D	5				
1720110-03	i300.0w Chloride	D	6				
1720110-03	i300.0w Nitrate as N	D	6				
1720110-03	i300.0w Sulfate	D	6				
1720110-10	i300.0w Chloride	D	7				
1720110-10	i300.0w Nitrate as N	D	7				
1720110-10	i300.0w Sulfate	D	7				
1720110-11	i300.0w Chloride	D	8				
1720110-11	i300.0w Nitrate as N	D	8				
1720110-11	i300.0w Sulfate	D	8				
1720110-12	i300.0w Chloride	L	9				
1720110-12	i300.0w Nitrate as N	L	9				
1720110-12	i300.0w Sulfate	L	9				
1720121-01	i300.0w Chloride	T	10				
1720121-01	i300.0w Nitrate as N	T	10				
1720121-01	i300.0w Sulfate	T	10				
1720121-03	i300.0w Chloride	H	11				
1720121-03	i300.0w Nitrate as N	H	11				
1720121-03	i300.0w Sulfate	H	11				
1720121-06	i300.0w Chloride	G	12				
1720121-06	i300.0w Nitrate as N	G	12				
1720121-06	i300.0w Sulfate	G	12				
1713199-CCV1	QC		13		7G12050		
1713199-CCB1	QC		14				
B[G1832-BS1	QC		15				
B[G1832-BLK1	QC		16				
1720121-07	i300.0w Chloride	G	17				
1720121-07	i300.0w Nitrate as N	G	17				
1720121-07	i300.0w Sulfate	G	17				
1720121-08	i300.0w Chloride	G	18				
1720121-08	i300.0w Nitrate as N	G	18				
1720121-08	i300.0w Sulfate	G	18				
1720121-09	i300.0w Chloride	G	19				

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713199

Instrument: IC2
Calibration ID:
Sequence Date: 07/22/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1720121-09	i300.0w Nitrate as N	G	19				
1720121-09	i300.0w Sulfate	G	19				
1720121-10	i300.0w Chloride	G	20				
1720121-10	i300.0w Nitrate as N	G	20				
1720121-10	i300.0w Sulfate	G	20				
1720121-11	i300.0w Chloride	H	21				
1720121-11	i300.0w Nitrate as N	H	21				
1720121-11	i300.0w Sulfate	H	21				
1720121-12	i300.0w Chloride	H	22				
1720121-12	i300.0w Nitrate as N	H	22				
1720121-12	i300.0w Sulfate	H	22				
1720121-13	i300.0w Chloride	H	23				
1720121-13	i300.0w Nitrate as N	H	23				
1720121-13	i300.0w Sulfate	H	23				
1720121-14	i300.0w Chloride	G	24				
1720121-14	i300.0w Nitrate as N	G	24				
1720121-14	i300.0w Sulfate	G	24				
1713199-CCV2	QC		25		7G12050		
1713199-CCB2	QC		26				
1720122-03	i300.0w Chloride	L	27				
1720122-03	i300.0w Nitrate as N	L	27				
1720122-03	i300.0w Sulfate	L	27				
1720122-04	i300.0w Chloride	L	28				
1720122-04	i300.0w Nitrate as N	L	28				
1720122-04	i300.0w Sulfate	L	28				
1720122-05	i300.0w Chloride	I	29				
1720122-05	i300.0w Nitrate as N	I	29				
1720122-05	i300.0w Sulfate	I	29				
1720122-06	i300.0w Chloride	I	30				
1720122-06	i300.0w Nitrate as N	I	30				
1720122-06	i300.0w Sulfate	I	30				
B[G1831-DUP1	QC		31				
B[G1831-MS1	QC		32				
B[G1831-MSD1	QC		33				
B[G1832-DUP1	QC		34				
B[G1832-MS1	QC		35				
B[G1832-MSD1	QC		36				
1713199-CCV3	QC		37		7G12050		
1713199-CCB3	QC		38				

ANALYSIS SEQUENCE

1713199

Instrument: IC2
Calibration ID:
Sequence Date: 07/22/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1720121-01RE1	i300.0w Chloride	T	39				Added 7/26/2017 by JSW
1720121-01RE1	i300.0w Nitrate as N	T	39				Added 7/26/2017 by JSW
1720121-01RE1	i300.0w Sulfate	T	39				Added 7/26/2017 by JSW
1720121-11RE1	i300.0w Chloride	H	40				Added 7/26/2017 by JSW
1720121-11RE1	i300.0w Nitrate as N	H	40				Added 7/26/2017 by JSW
1720121-11RE1	i300.0w Sulfate	H	40				Added 7/26/2017 by JSW
1720110-02RE1	i300.0w Chloride	D	41				Added 7/26/2017 by JSW
1720110-02RE1	i300.0w Nitrate as N	D	41				Added 7/26/2017 by JSW
1720110-02RE1	i300.0w Sulfate	D	41				Added 7/26/2017 by JSW
1720110-03RE1	i300.0w Chloride	D	42				Added 7/26/2017 by JSW
1720110-03RE1	i300.0w Nitrate as N	D	42				Added 7/26/2017 by JSW
1720110-03RE1	i300.0w Sulfate	D	42				Added 7/26/2017 by JSW
1720121-07RE1	i300.0w Chloride	G	43				Added 7/26/2017 by JSW
1720121-07RE1	i300.0w Nitrate as N	G	43				Added 7/26/2017 by JSW
1720121-07RE1	i300.0w Sulfate	G	43				Added 7/26/2017 by JSW
1720122-03RE1	i300.0w Chloride	L	44				Added 7/26/2017 by JSW
1720122-03RE1	i300.0w Nitrate as N	L	44				Added 7/26/2017 by JSW
1720122-03RE1	i300.0w Sulfate	L	44				Added 7/26/2017 by JSW
1720122-06RE1	i300.0w Chloride	I	45				Added 7/26/2017 by JSW
1720122-06RE1	i300.0w Nitrate as N	I	45				Added 7/26/2017 by JSW
1720122-06RE1	i300.0w Sulfate	I	45				Added 7/26/2017 by JSW
1713199-CCV4	QC		46		7G12050		
1713199-CCB4	QC		47				
1713199-CCV5	QC		48		7G12050		
1713199-CCB5	QC		49				
1720122-06RE2	i300.0w Chloride	I	50				Added 7/26/2017 by JSW
1720122-06RE2	i300.0w Nitrate as N	I	50				Added 7/26/2017 by JSW
1720122-06RE2	i300.0w Sulfate	I	50				Added 7/26/2017 by JSW
1713199-CCV6	QC		51		7G12050		
1713199-CCB6	QC		52				

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-20121**
Class: **WET**
Method: **EPA-310.1**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSES DATA PACKAGE COVER PAGE

EPA-310.1

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
15-MW1_170721	1720121-01
15-MW3_170721	1720121-03
27MW03_170721	1720121-06
27MW04_170721	1720121-07
27MW10_170721	1720121-08
27MW11_170721	1720121-09
27MW12_170721	1720121-10
M14-15_170721	1720121-11
M14-16_170721	1720121-12
27EW-12_170721	1720121-13
27MW13_170721	1720121-14

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 08-22-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

EPA-310.1

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: MET-1

Analyte	DL	LOD	LOQ	Units
Total Alkalinity as CaCO3	4.1	4.1	4.1	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
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INORGANIC ANALYSIS DATA SHEET
EPA-310.1

15-MW1_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-01
File ID: Tiamo072517-133
Sampled: 07/21/17 08:30
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 18:30
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1463
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	330	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

15-MW3_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-03
File ID: Tiamo072517-135
Sampled: 07/21/17 09:40
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 18:38
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1463
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	300	4.1	4.1	4.1	1		EPA-310.1

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INORGANIC ANALYSIS DATA SHEET
EPA-310.1

27MW03_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-06
File ID: Tiamo072517-137
Sampled: 07/21/17 09:20
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 18:46
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1463
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	350	4.1	4.1	4.1	1		EPA-310.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

27MW04_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-07
File ID: Tiamo072517-139
Sampled: 07/21/17 11:45
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 18:54
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1463
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	86	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

27MW10_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-08
File ID: Tiamo072517-145
Sampled: 07/21/17 10:26
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 19:17
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1464
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	230	4.1	4.1	4.1	1		EPA-310.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

27MW11_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-09
File ID: Tiamo072517-148
Sampled: 07/21/17 10:50
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 19:31
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1464
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	260	4.1	4.1	4.1	1		EPA-310.1

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

27MW12_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-10
File ID: Tiamo072517-150
Sampled: 07/21/17 11:35
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 19:39
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1464
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	92	4.1	4.1	4.1	1		EPA-310.1

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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

M14-15_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-11
File ID: Tiamo072517-152
Sampled: 07/21/17 08:20
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 19:46
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1464
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	880	8.2	8.2	8.2	2	D	EPA-310.1

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

M14-16_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-12
File ID: Tiamo072517-154
Sampled: 07/21/17 09:15
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 19:55
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1464
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	520	8.2	8.2	8.2	2	D	EPA-310.1

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INORGANIC ANALYSIS DATA SHEET
EPA-310.1

27EW-12_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-13
File ID: Tiamo072517-156
Sampled: 07/21/17 12:56
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 20:03
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1464
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	180	4.1	4.1	4.1	1		EPA-310.1

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-310.1

27MW13_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-14
File ID: Tiamo072517-158
Sampled: 07/21/17 13:10
Prepared: 07/25/17 08:00
Analyzed: 07/25/17 20:11
Solids: 0.00
Preparation: No Prep
Initial/Final: 50 ml / 50 ml
Batch: B[G1464
Sequence: 1713172
Calibration: UNASSIGNED
Instrument: MET-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Total Alkalinity as CaCO3	230	8.2	8.2	8.2	2	D	EPA-310.1

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

EPA-310.1

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G1463
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
15-MW1_170721	1720121-01	Tiamo072517-133	07/25/17 08:00	
15-MW3_170721	1720121-03	Tiamo072517-135	07/25/17 08:00	
27MW03_170721	1720121-06	Tiamo072517-137	07/25/17 08:00	
27MW04_170721	1720121-07	Tiamo072517-139	07/25/17 08:00	
Blank	B[G1463-BLK1	Tiamo072517-120	07/25/17 08:00	
LCS	B[G1463-BS3	Tiamo072517-119	07/25/17 08:00	
Duplicate	B[G1463-DUP1	Tiamo072517-122	07/25/17 08:00	

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Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

EPA-310.1

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G1464
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27MW10_170721	1720121-08	Tiamo072517-145	07/25/17 08:00	
27MW11_170721	1720121-09	Tiamo072517-148	07/25/17 08:00	
27MW12_170721	1720121-10	Tiamo072517-150	07/25/17 08:00	
M14-15_170721	1720121-11	Tiamo072517-152	07/25/17 08:00	
M14-16_170721	1720121-12	Tiamo072517-154	07/25/17 08:00	
27EW-12_170721	1720121-13	Tiamo072517-156	07/25/17 08:00	
27MW13_170721	1720121-14	Tiamo072517-158	07/25/17 08:00	
Blank	B[G1464-BLK1	Tiamo072517-144	07/25/17 08:00	
LCS	B[G1464-BS3	Tiamo072517-143	07/25/17 08:00	
27MW10_170721	B[G1464-DUP1	Tiamo072517-146	07/25/17 08:00	

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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-310.1

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G1463-BLK1	File ID:	Tiamo072517-120
Prepared:	07/25/17 08:00	Preparation:	No Prep	Initial/Final:	50 ml / 50 ml
Analyzed:	07/25/17 17:20	Instrument:	MET-1		
Batch:	B[G1463	Sequence:	1713172	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
---	Total Alkalinity as CaCO3	4.1	4.1	4.1	4.1	U

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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-310.1

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G1464-BLK1	File ID:	Tiamo072517-144
Prepared:	07/25/17 08:00	Preparation:	No Prep	Initial/Final:	50 ml / 50 ml
Analyzed:	07/25/17 19:12	Instrument:	MET-1		
Batch:	B[G1464	Sequence:	1713172	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
---	Total Alkalinity as CaCO3	4.1	4.1	4.1	4.1	U

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

Duplicate

DUPLICATES

EPA-310.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[G1463
Preparation: No Prep
Source Sample Name: Duplicate

SDG: 17-20121
Project: Alameda
Laboratory ID: B[G1463-DUP1
Lab Source ID: 1720070-01
Initial/Final: 50 ml / 50 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Total Alkalinity as CaCO3	10	263.80		261.36		0.929		EPA-310.1

* Values outside of QC limits

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
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27MW10_170721

DUPLICATES

EPA-310.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[G1464
Preparation: No Prep
Source Sample Name: 27MW10_170721

SDG: 17-20121
Project: Alameda
Laboratory ID: B[G1464-DUP1
Lab Source ID: 1720121-08
Initial/Final: 50 ml / 50 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Total Alkalinity as CaCO3	10	233.98		233.37		0.261		EPA-310.1

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-310.1

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[G1463	Laboratory ID:	B[G1463-BS3
Preparation:	No Prep	Initial/Final:	50 ml / 50 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Total Alkalinity as CaCO3	100.00	90.060	90.1	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-310.1

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[G1464	Laboratory ID:	B[G1464-BS3
Preparation:	No Prep	Initial/Final:	50 ml / 50 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Total Alkalinity as CaCO3	100.00	91.580	91.6	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-310.1

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1713172	Instrument:	MET-1
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
LCS	B[G1463-BS3	Tiamo072517-119	07/25/17 17:15
Blank	B[G1463-BLK1	Tiamo072517-120	07/25/17 17:20
Duplicate	B[G1463-DUP1	Tiamo072517-122	07/25/17 17:31
15-MW1_170721	1720121-01	Tiamo072517-133	07/25/17 18:30
15-MW3_170721	1720121-03	Tiamo072517-135	07/25/17 18:38
27MW03_170721	1720121-06	Tiamo072517-137	07/25/17 18:46
27MW04_170721	1720121-07	Tiamo072517-139	07/25/17 18:54
LCS	B[G1464-BS3	Tiamo072517-143	07/25/17 19:06
Blank	B[G1464-BLK1	Tiamo072517-144	07/25/17 19:12
27MW10_170721	1720121-08	Tiamo072517-145	07/25/17 19:17
27MW10_170721	B[G1464-DUP1	Tiamo072517-146	07/25/17 19:23
27MW11_170721	1720121-09	Tiamo072517-148	07/25/17 19:31
27MW12_170721	1720121-10	Tiamo072517-150	07/25/17 19:39
M14-15_170721	1720121-11	Tiamo072517-152	07/25/17 19:46
M14-16_170721	1720121-12	Tiamo072517-154	07/25/17 19:55
27EW-12_170721	1720121-13	Tiamo072517-156	07/25/17 20:03
27MW13_170721	1720121-14	Tiamo072517-158	07/25/17 20:11

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

HOLDING TIME SUMMARY
EPA-310.1

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
15-MW1_170721	07/21/17 08:30	07/21/17 21:30	07/25/17 08:00	4.00	14.00	07/25/17 18:30	4.00	14.00	
15-MW3_170721	07/21/17 09:40	07/21/17 21:30	07/25/17 08:00	4.00	14.00	07/25/17 18:38	4.00	14.00	
27MW03_170721	07/21/17 09:20	07/21/17 21:30	07/25/17 08:00	4.00	14.00	07/25/17 18:46	4.00	14.00	
27MW04_170721	07/21/17 11:45	07/21/17 21:30	07/25/17 08:00	4.00	14.00	07/25/17 18:54	4.00	14.00	
27MW10_170721	07/21/17 10:26	07/21/17 21:30	07/25/17 08:00	4.00	14.00	07/25/17 19:17	4.00	14.00	
27MW11_170721	07/21/17 10:50	07/21/17 21:30	07/25/17 08:00	4.00	14.00	07/25/17 19:31	4.00	14.00	
27MW12_170721	07/21/17 11:35	07/21/17 21:30	07/25/17 08:00	4.00	14.00	07/25/17 19:39	4.00	14.00	
M14-15_170721	07/21/17 08:20	07/21/17 21:30	07/25/17 08:00	4.00	14.00	07/25/17 19:46	4.00	14.00	
M14-16_170721	07/21/17 09:15	07/21/17 21:30	07/25/17 08:00	4.00	14.00	07/25/17 19:55	4.00	14.00	
27EW-12_170721	07/21/17 12:56	07/21/17 21:30	07/25/17 08:00	4.00	14.00	07/25/17 20:03	4.00	14.00	
27MW13_170721	07/21/17 13:10	07/21/17 21:30	07/25/17 08:00	4.00	14.00	07/25/17 20:11	4.00	14.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument MET-1

Raw Data - Analytical Runs

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
							Alkalinity as CaCO3, mg/l		
	Determination start	2017-07-25 08:18:13					Method.	BCL-CAL Cond.	
EC Calibration		(23.4 ºC) 1411							
	Determination start	2017-07-25 08:22:10					Method.	BCL-Cond	
ICV1@COND		(23.2 ºC) 997.70							
	Determination start	2017-07-25 08:23:47					Method.	BCL-Cond	
B1-BS1@COND		(23.1 ºC) 307.00							
	Determination start	2017-07-25 08:25:22					Method.	BCL-CAL-pH-5 BUFFERS	
pH Calibration									
	Determination start	2017-07-25 08:41:55					Method.	BCL-pH	
B1-BS2@pH			(24.2 ºC) 7.02						
	Determination start	2017-07-25 08:45:16			Titer	0.076	Method.	BCL-Cond-pH-Alk	
B1-BS3@Alk	50	(23.5 ºC) 215.40	(24.4 ºC) 10.24	0.524	1.234	0.00	79.72	14.15	93.87
	Determination start	2017-07-25 08:50:47			Titer	0.076	Method.	BCL-Cond-pH-Alk-BLK1.	
B1-BLK1@Alk	50	(23.3 ºC) 1.30	(24.3 ºC) 4.63	0.000	0.012	0.00	0.00	0.91	0.91
	Determination start	2017-07-25 08:55:48			Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719674-02@A	50	(12.9 ºC) 85.90	(18.2 ºC) 7.49	0.000	0.496	0.00	0.00	37.73	37.73
	Determination start	2017-07-25 09:01:36			Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719674-02@A	50	(14.0 ºC) 86.40	(18.5 ºC) 7.46	0.000	0.468	0.00	0.00	35.60	35.60
		. . . 2017-07-25 09:07:17							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start . . .				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(14.6 ºC)	(18.9 ºC)						
B1-DUP1	50	86.40	7.46	0.000	0.518	0.00	0.00	39.40	39.40
	Determination start	2017-07-25 09:13:00					Method.	BCL-Cond	
		(23.4 ºC)							
BLK1		1.40							
	Determination start	2017-07-25 09:14:41			Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(15.6 ºC)	(19.8 ºC)						
1718847-01@ARE1	50	984.60	8.27	0.000	3.606	0.00	0.00	274.29	274.29
	Determination start	2017-07-25 09:20:47					Method.	BCL-Cond	
		(23.2 ºC)							
BLK1		2.30							
	Determination start	2017-07-25 09:22:29			Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(16.6 ºC)	(21.1 ºC)						
1720081-01@A	25	1119.20	4.87	0.000	0.404	0.00	0.00	61.46	61.46
	Determination start	2017-07-25 09:27:53					Method.	BCL-Cond	
		(22.9 ºC)							
BLK1		3.60							
	Determination start	2017-07-25 09:29:36			Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(17.5 ºC)	(20.8 ºC)						
1720196-01@A	50	431.20	8.68	0.068	0.704	0.00	10.35	43.21	53.55
	Determination start	2017-07-25 09:35:33					Method.	BCL-Cond	
		(22.9 ºC)							
BLK1		1.90							
	Determination start	2017-07-25 09:37:15			Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(18.4 ºC)	(22.0 ºC)						
1720265-01@B	25	2278.50	6.80	0.000	1.522	0.00	0.00	231.55	231.55

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 09:43:20						Method.	BCL-Cond	
BLK1		(22.9 ºC) 5.70							
	Determination start 2017-07-25 09:45:14				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720266-01@B	25	(18.5 ºC) 2434.60	(22.3 ºC) 7.62	0.000	1.704	0.00	0.00	259.23	259.23
	Determination start 2017-07-25 09:51:01						Method.	BCL-Cond	
BLK1		(22.8 ºC) 5.20							
	Determination start 2017-07-25 09:52:48				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720266-02@B	25	(19.2 ºC) 1521.10	(22.6 ºC) 6.83	0.000	1.348	0.00	0.00	205.07	205.07
	Determination start 2017-07-25 09:58:48						Method.	BCL-Cond	
BLK1		(22.8 ºC) 5.30							
	Determination start 2017-07-25 10:00:30				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720266-03@B	25	(19.3 ºC) 3509.30	(22.8 ºC) 7.03	0.000	2.046	0.00	0.00	311.26	311.26
	Determination start 2017-07-25 10:07:02						Method.	BCL-Cond	
BLK1		(22.8 ºC) 8.10							
	Determination start 2017-07-25 10:08:44				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720266-04@B	25	(19.7 ºC) 2132.60	(23.1 ºC) 6.07	0.000	1.522	0.00	0.00	231.55	231.55
	Determination start 2017-07-25 10:15:23						Method.	BCL-Cond	
BLK1		(22.8 ºC) 6.20							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 10:17:05				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.2 ºC)	(23.4 ºC)						
1720266-05@B	25	2491.40	7.46	0.000	1.678	0.00	0.00	255.28	255.28
	Determination start 2017-07-25 10:23:16						Method.	BCL-Cond	
		(22.8 ºC)							
BLK1		6.90							
	Determination start 2017-07-25 10:24:55						Method.	BCL-Cond	
		(21.5 ºC)							
B2-BS1@COND		308.30							
	Determination start 2017-07-25 10:26:43						Method.	BCL-pH	
			(24.1 ºC)						
B2-BS2@PH			7.01						
	Determination start 2017-07-25 10:29:57				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(21.7 ºC)	(23.7 ºC)						
B2-BS3@ALK	50	208.70	10.14	0.476	1.208	0.00	72.42	19.47	91.89
	Determination start 2017-07-25 10:35:26				Titer	0.076	Method.	BCL-Cond-pH-Alk-BLK1	
		(21.8 ºC)	(23.6 ºC)						
B2-BLK1	50	3.30	4.86	0.000	0.020	0.00	0.00	1.52	1.52
	Determination start 2017-07-25 10:40:51				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.7 ºC)	(23.1 ºC)						
1719891-01@D	50	824.70	7.79	0.000	3.624	0.00	0.00	275.66	275.66
	Determination start 2017-07-25 10:46:47				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(20.7 ºC)	(23.1 ºC)						
B2-DUP1	50	824.90	7.79	0.000	3.676	0.00	0.00	279.62	279.62
	Determination start 2017-07-25 10:52:46				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(21.1 ºC)	(23.3 ºC)						
1719674-03@A	50	93.30	7.39	0.000	0.560	0.00	0.00	42.60	42.60

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-07-25 10:58:12						Method.	BCL-Cond	
BLK1		(23.2 ºC) 3.40							
	Determination start 2017-07-25 10:59:55				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719674-04@A	50	(21.4 ºC) 86.70	(23.5 ºC) 7.37	0.000	0.522	0.00	0.00	39.71	39.71
	Determination start 2017-07-25 11:05:06						Method.	BCL-Cond	
BLK1		(23.3 ºC) 3.30							
	Determination start 2017-07-25 11:06:49				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719714-05@D	50	(21.8 ºC) 524.40	(23.8 ºC) 7.75	0.000	3.776	0.00	0.00	287.23	287.23
	Determination start 2017-07-25 11:12:40				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719740-01@A	50	(22.1 ºC) 853.10	(24.1 ºC) 7.94	0.000	2.708	0.00	0.00	205.99	205.99
	Determination start 2017-07-25 11:18:21				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719740-02@A	50	(22.3 ºC) 605.20	(24.2 ºC) 7.96	0.000	2.256	0.00	0.00	171.61	171.61
	Determination start 2017-07-25 11:23:55				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719749-01@A	50	(22.0 ºC) 715.70	(24.0 ºC) 5.82	0.000	2.184	0.00	0.00	166.13	166.13
	Determination start 2017-07-25 11:31:02						Method.	BCL-Cond	
BLK1		(23.6 ºC) 4.30							
	Determination start 2017-07-25 11:32:44				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719811-01@P	25	(22.1 ºC) 46347.50	(24.6 ºC) 7.57	0.000	18.898	0.00	0.00	2875.00	2875.00

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 11:43:28						Method.	BCL-Cond	
BLK1		(23.9 ºC) 29.40							
	Determination start 2017-07-25 11:45:28				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719845-01@A	50	(22.6 ºC) 658.50	(24.7 ºC) 5.76	0.000	1.808	0.00	0.00	137.53	137.53
	Determination start 2017-07-25 11:52:07						Method.	BCL-Cond	
BLK1		(23.9 ºC) 8.40							
	Determination start 2017-07-25 11:53:50				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719891-02@D	25	(23.0 ºC) 1137.20	(25.2 ºC) 7.70	0.000	3.060	0.00	0.00	465.53	465.53
	Determination start 2017-07-25 12:00:06						Method.	BCL-Cond	
B3-BS1@COND		(23.1 ºC) 311.90							
	Determination start 2017-07-25 12:01:41						Method.	BCL-pH	
B3-BS2@PH			(25.6 ºC) 7.01						
	Determination start 2017-07-25 12:05:02				Titer	0.076	Method.	BCL-Cond-pH-Alk	
B3-BS3@ALK	50	(23.1 ºC) 201.50	(25.4 ºC) 9.99	0.394	1.208	0.00	59.94	31.95	91.89
	Determination start 2017-07-25 12:10:35				Titer	0.076	Method.	BCL-Cond-pH-Alk-BLK1	
B3-BLK1	50	(23.2 ºC) 1.60	(25.4 ºC) 4.87	0.000	0.024	0.00	0.00	1.83	1.83
	Determination start 2017-07-25 12:16:00				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1719983-04@A	25	(23.1 ºC) 1063.80	(25.8 ºC) 7.91	0.000	0.672	0.00	0.00	102.23	102.23

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 12:21:28				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.1 ºC)	(25.9 ºC)						
B3-DUP1	25	1064.30	7.92	0.000	0.664	0.00	0.00	101.02	101.02
	Determination start 2017-07-25 12:26:50				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.3 ºC)	(26.1 ºC)						
1719891-03@D	25	1636.30	7.64	0.000	2.088	0.00	0.00	317.65	317.65
	Determination start 2017-07-25 12:32:53						Method.	BCL-Cond	
		(24.1 ºC)							
BLK1		3.90							
	Determination start 2017-07-25 12:34:36				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.4 ºC)	(26.2 ºC)						
1719969-01@D	25	5087.60	8.38	0.144	9.620	0.00	43.81	1419.70	1463.52
	Determination start 2017-07-25 12:42:00						Method.	BCL-Cond	
		(24.2 ºC)							
BLK1		8.40							
	Determination start 2017-07-25 12:44:01				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.4 ºC)	(25.7 ºC)						
1719983-05@A	50	873.50	8.03	0.000	2.404	0.00	0.00	182.86	182.86
	Determination start 2017-07-25 12:49:40				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.5 ºC)	(25.7 ºC)						
1719983-06@A	50	804.80	8.14	0.000	2.424	0.00	0.00	184.38	184.38
	Determination start 2017-07-25 12:55:15				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.5 ºC)	(26.1 ºC)						
1719995-02@D	25	13110.80	7.75	0.000	30.740	0.00	0.00	4676.55	4676.55
	Determination start 2017-07-25 13:07:37						Method.	BCL-Cond	
		(24.7 ºC)							
BLK1		14.40							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 13:09:38				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.7 ºC)	(26.3 ºC)						
1719995-03@D	25	15745.40	7.69	0.000	37.624	0.00	0.00	5723.83	5723.83
	Determination start 2017-07-25 13:23:44						Method.	BCL-Cond	
		(24.7 ºC)							
BLK1		13.20							
	Determination start 2017-07-25 13:25:26				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.7 ºC)	(26.2 ºC)						
1719995-04@D	25	9722.00	7.63	0.000	23.092	0.00	0.00	3513.04	3513.04
	Determination start 2017-07-25 13:36:10						Method.	BCL-Cond	
		(24.9 ºC)							
BLK1		13.30							
	Determination start 2017-07-25 13:37:52				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.7 ºC)	(26.3 ºC)						
1719997-02@A	25	1610.20	7.61	0.000	2.842	0.00	0.00	432.36	432.36
	Determination start 2017-07-25 13:44:28						Method.	BCL-Cond	
		(24.8 ºC)							
BLK1		6.50							
	Determination start 2017-07-25 13:46:09				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.8 ºC)	(25.8 ºC)						
1720006-01@A	50	257.90	7.77	0.000	0.866	0.00	0.00	65.87	65.87
	Determination start 2017-07-25 13:51:53						Method.	BCL-Cond	
		(23.9 ºC)							
B4-BS1@COND		312.60							
	Determination start 2017-07-25 13:53:35						Method.	BCL-pH	
			(26.2 ºC)						
B4-BS2@PH			7.01						

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-07-25 13:56:57				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.5 ºC)	(26.3 ºC)						
B4-BS3@ALK	50	198.10	9.86	0.350	1.206	0.00	53.25	38.49	91.74
	Determination start 2017-07-25 14:02:29				Titer	0.076	Method.	BCL-Cond-pH-Alk-BLK1.	
		(24.6 ºC)	(26.3 ºC)						
B4-BLK1	50	2.20	4.69	0.000	0.012	0.00	0.00	0.91	0.91
	Determination start 2017-07-25 14:07:37				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.4 ºC)	(26.5 ºC)						
1720018-08@S	25	6668.10	7.16	0.000	4.902	0.00	0.00	745.75	745.75
	Determination start 2017-07-25 14:14:16				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.5 ºC)	(26.6 ºC)						
B4-DUP1	25	6668.10	7.17	0.000	4.886	0.00	0.00	743.32	743.32
	Determination start 2017-07-25 14:21:08						Method.	BCL-Cond	
		(25.1 ºC)							
BLK1		15.40							
	Determination start 2017-07-25 14:22:49				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.4 ºC)	(26.5 ºC)						
1720018-01@E	25	26517.20	7.25	0.000	9.420	0.00	0.00	1433.09	1433.09
	Determination start 2017-07-25 14:30:32						Method.	BCL-Cond	
		(25.2 ºC)							
BLK1		25.50							
	Determination start 2017-07-25 14:32:32				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.5 ºC)	(26.5 ºC)						
1720018-02@F	25	28580.70	7.25	0.000	12.552	0.00	0.00	1909.57	1909.57
	Determination start 2017-07-25 14:40:54						Method.	BCL-Cond	
		(25.2 ºC)							
BLK1		22.10							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 14:42:54				Titer 0.076		Method. BCL-Cond-pH-Alk		
1720018-04@H	25	(24.4 ºC) 4806.60	(26.4 ºC) 7.02	0.000	3.034	0.00	0.00	461.57	461.57
	Determination start 2017-07-25 14:49:32						Method. BCL-Cond		
BLK1		(25.2 ºC) 17.80							
	Determination start 2017-07-25 14:51:32				Titer 0.076		Method. BCL-Cond-pH-Alk		
1720018-05@H	25	(24.5 ºC) 2524.20	(26.5 ºC) 7.18	0.000	1.994	0.00	0.00	303.35	303.35
	Determination start 2017-07-25 14:57:44						Method. BCL-Cond		
BLK1		(25.2 ºC) 14.40							
	Determination start 2017-07-25 14:59:36				Titer 0.076		Method. BCL-Cond-pH-Alk		
1720018-06@G	50	(24.6 ºC) 728.70	(26.4 ºC) 7.46	0.000	2.628	0.00	0.00	199.90	199.90
	Determination start 2017-07-25 15:05:14						Method. BCL-Cond		
BLK1		(25.2 ºC) 10.60							
	Determination start 2017-07-25 15:06:56				Titer 0.076		Method. BCL-Cond-pH-Alk		
1720018-07@G	25	(24.6 ºC) 1737.40	(26.6 ºC) 7.59	0.000	2.690	0.00	0.00	409.24	409.24
	Determination start 2017-07-25 15:13:18						Method. BCL-Cond		
BLK1		(25.3 ºC) 13.90							
	Determination start 2017-07-25 15:15:09				Titer 0.076		Method. BCL-Cond-pH-Alk		
1720018-09@G	25	(24.5 ºC) 4444.60	(26.5 ºC) 7.36	0.000	4.890	0.00	0.00	743.93	743.93

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 15:21:55						Method. BCL-Cond		
BLK1		(25.2 ºC) 19.10							
	Determination start 2017-07-25 15:23:40				Titer 0.076		Method. BCL-Cond-pH-Alk		
1720018-10@G	25	(24.5 ºC) 6753.80	(26.5 ºC) 7.24	0.000	4.852	0.00	0.00	738.15	738.15
	Determination start 2017-07-25 15:30:23						Method. BCL-Cond		
BLK1		(25.3 ºC) 19.70							
	Determination start 2017-07-25 15:32:23				Titer 0.076		Method. BCL-Cond-pH-Alk		
1720018-11@G	25	(24.5 ºC) 2390.00	(26.5 ºC) 7.61	0.000	2.772	0.00	0.00	421.71	421.71
	Determination start 2017-07-25 15:38:59						Method. BCL-Cond		
BLK1		(25.2 ºC) 15.20							
	Determination start 2017-07-25 15:40:58						Method. BCL-Cond		
B5-BS1@COND		(24.5 ºC) 318.00							
	Determination start 2017-07-25 15:42:44						Method. BCL-pH		
B5-BS2@PH			(26.5 ºC) 7.01						
	Determination start 2017-07-25 15:46:04				Titer 0.076		Method. BCL-Cond-pH-Alk		
B5-BS3@ALK	50	(24.2 ºC) 212.50	(26.0 ºC) 9.97	0.388	1.216	0.00	59.03	33.47	92.50
	Determination start 2017-07-25 15:51:36				Titer 0.076		Method. BCL-Cond-pH-Alk-BLK1.		
B5-BLK1	50	(24.1 ºC) 3.50	(25.9 ºC) 4.83	0.000	0.022	0.00	0.00	1.67	1.67

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-07-25 15:57:02				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.1 ºC)	(25.9 ºC)						
1720060-02@D	50	312.90	7.55	0.000	1.024	0.00	0.00	77.89	77.89
	Determination start 2017-07-25 16:02:18				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.9 ºC)	(25.7 ºC)						
B5-DUP1	50	312.50	7.56	0.000	1.000	0.00	0.00	76.07	76.07
	Determination start 2017-07-25 16:07:34				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.0 ºC)	(26.1 ºC)						
1720029-05@J	25	1384.40	7.59	0.000	3.936	0.00	0.00	598.79	598.79
	Determination start 2017-07-25 16:14:36						Method.	BCL-Cond	
		(25.8 ºC)							
BLK1		2.00							
	Determination start 2017-07-25 16:16:17				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.5 ºC)	(26.3 ºC)						
1720029-11@J	25	1660.20	6.94	0.000	2.214	0.00	0.00	336.82	336.82
	Determination start 2017-07-25 16:22:34						Method.	BCL-Cond	
		(25.5 ºC)							
BLK1		2.20							
	Determination start 2017-07-25 16:24:14				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.5 ºC)	(26.4 ºC)						
1720053-01@A	25	2280.60	8.01	0.000	2.500	0.00	0.00	380.33	380.33
	Determination start 2017-07-25 16:30:17						Method.	BCL-Cond	
		(25.3 ºC)							
BLK1		1.60							
	Determination start 2017-07-25 16:31:58				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.5 ºC)	(26.3 ºC)						
1720060-01@D	25	1417.80	7.58	0.000	4.222	0.00	0.00	642.30	642.30

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-07-25 16:38:39				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.4 ºC)	(26.0 ºC)						
1720060-03@D	50	281.50	7.56	0.000	0.584	0.00	0.00	44.42	44.42
	Determination start 2017-07-25 16:43:47				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.4 ºC)	(26.1 ºC)						
1720060-04@D	50	350.50	7.58	0.000	1.112	0.00	0.00	84.59	84.59
	Determination start 2017-07-25 16:49:04				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(24.0 ºC)	(25.9 ºC)						
1720064-01@D	50	359.40	8.08	0.000	1.140	0.00	0.00	86.72	86.72
	Determination start 2017-07-25 16:54:15						Method.	BCL-Cond	
		(26.5 ºC)							
BLK1		0.80							
	Determination start 2017-07-25 16:55:56				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.8 ºC)	(26.1 ºC)						
1720066-01@D	25	1077.50	7.96	0.000	2.300	0.00	0.00	349.90	349.90
	Determination start 2017-07-25 17:01:26						Method.	BCL-Cond	
		(26.0 ºC)							
BLK1		1.80							
	Determination start 2017-07-25 17:03:09				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.1 ºC)	(25.3 ºC)						
1720068-01@D	50	378.50	8.48	0.076	1.984	0.00	11.56	139.35	150.92
	Determination start 2017-07-25 17:08:47						Method.	BCL-Cond	
		(25.7 ºC)							
BLK1		1.10							
	Determination start 2017-07-25 17:10:27						Method.	BCL-Cond	
		(23.0 ºC)							
B6-BS1@COND		315.90							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 17:12:00						Method . BCL-pH		
B6-BS2@PH			(25.5 ºC) 7.01						
	Determination start 2017-07-25 17:15:18				Titer	0.076	Method . BCL-Cond-pH-Alk		
B6-BS3@ALK	50	(23.1 ºC) 196.30	(25.4 ºC) 9.98	0.378	1.184	0.00	57.51	32.56	90.06
	Determination start 2017-07-25 17:20:45				Titer	0.076	Method . BCL-Cond-pH-Alk-BLK1.		
B6-BLK1	50	(23.1 ºC) 2.50	(25.3 ºC) 4.62	0.000	0.012	0.00	0.00	0.91	0.91
	Determination start 2017-07-25 17:25:44				Titer	0.076	Method . BCL-Cond-pH-Alk		
1720070-01@C	25	(22.9 ºC) 1214.80	(25.6 ºC) 7.56	0.000	1.734	0.00	0.00	263.80	263.80
	Determination start 2017-07-25 17:31:14				Titer	0.076	Method . BCL-Cond-pH-Alk		
B6-DUP1	25	(23.0 ºC) 1216.50	(25.8 ºC) 7.58	0.000	1.718	0.00	0.00	261.36	261.36
	Determination start 2017-07-25 17:36:54				Titer	0.076	Method . BCL-Cond-pH-Alk		
1720079-01@J	25	(23.4 ºC) 42209.20	(26.0 ºC) 7.54	0.000	18.398	0.00	0.00	2798.93	2798.93
	Determination start 2017-07-25 17:47:47						Method . BCL-Cond		
BLK1		(25.1 ºC) 22.20							
	Determination start 2017-07-25 17:49:29				Titer	0.076	Method . BCL-Cond-pH-Alk		
1720080-01@I	25	(23.8 ºC) 49462.10	(26.2 ºC) 7.57	0.000	17.764	0.00	0.00	2702.48	2702.48
	Determination start 2017-07-25 18:00:18						Method . BCL-Cond		
BLK1		(24.9 ºC) 20.90							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 18:01:59				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(23.9 ºC)	(25.9 ºC)						
1720082-01@A	50	562.70	5.99	0.000	1.968	0.00	0.00	149.70	149.70
	Determination start 2017-07-25 18:08:48						Method. BCL-Cond		
		(24.5 ºC)							
BLK1		5.00							
	Determination start 2017-07-25 18:10:30				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(23.6 ºC)	(25.7 ºC)						
1720084-01@D	50	743.40	7.76	0.000	3.594	0.00	0.00	273.38	273.38
	Determination start 2017-07-25 18:16:22						Method. BCL-Cond		
		(24.6 ºC)							
BLK1		5.50							
	Determination start 2017-07-25 18:18:03				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(22.8 ºC)	(25.6 ºC)						
1720109-01@B	25	2235.20	4.88	0.000	2.632	0.00	0.00	400.41	400.41
	Determination start 2017-07-25 18:28:19						Method. BCL-Cond		
		(24.6 ºC)							
BLK1		8.70							
	Determination start 2017-07-25 18:30:20				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(22.3 ºC)	(25.5 ºC)						
1720121-01@S	25	18132.50	7.52	0.000	2.150	0.00	0.00	327.08	327.08
	Determination start 2017-07-25 18:36:38						Method. BCL-Cond		
		(24.6 ºC)							
BLK1		20.70							
	Determination start 2017-07-25 18:38:38				Titer 0.076		Method. BCL-Cond-pH-Alk		
		(22.4 ºC)	(25.0 ºC)						
1720121-03@H	50	883.30	7.72	0.000	3.990	0.00	0.00	303.50	303.50

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-07-25 18:44:34						Method.	BCL-Cond	
BLK1		(24.4 ºC) 8.10							
	Determination start 2017-07-25 18:46:19				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720121-06@G	50	(22.7 ºC) 783.80	(25.0 ºC) 8.27	0.000	4.562	0.00	0.00	347.01	347.01
	Determination start 2017-07-25 18:52:18						Method.	BCL-Cond	
BLK1		(24.4 ºC) 8.20							
	Determination start 2017-07-25 18:54:00				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720121-07@G	25	(23.0 ºC) 29718.00	(25.7 ºC) 6.67	0.000	0.562	0.00	0.00	85.50	85.50
	Determination start 2017-07-25 18:59:42						Method.	BCL-Cond	
BLK1		(24.5 ºC) 27.60							
	Determination start 2017-07-25 19:01:40						Method.	BCL-Cond	
B7-BS1@COND		(23.4 ºC) 317.20							
	Determination start 2017-07-25 19:03:23						Method.	BCL-pH	
B7-BS2@PH			(25.8 ºC) 7.01						
	Determination start 2017-07-25 19:06:51				Titer	0.076	Method.	BCL-Cond-pH-Alk	
B7-BS3@ALK	50	(23.4 ºC) 200.90	(25.5 ºC) 10.02	0.406	1.204	0.00	61.77	29.82	91.58
	Determination start 2017-07-25 19:12:23				Titer	0.076	Method.	BCL-Cond-pH-Alk-BLK1.	
B7-BLK1	50	(23.3 ºC) 2.70	(25.5 ºC) 4.94	0.000	0.026	0.00	0.00	1.98	1.98

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-07-25 19:17:54				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.4 ºC)	(25.6 ºC)						
1720121-08@G	50	843.00	8.03	0.000	3.076	0.00	0.00	233.98	233.98
	Determination start 2017-07-25 19:23:40				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.7 ºC)	(25.7 ºC)						
B7-DUP1	50	843.70	8.05	0.000	3.068	0.00	0.00	233.37	233.37
	Determination start 2017-07-25 19:29:24						Method.	BCL-Cond	
		(24.5 ºC)							
BLK1		10.70							
	Determination start 2017-07-25 19:31:16				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.7 ºC)	(25.7 ºC)						
1720121-09@G	50	784.20	9.88	1.136	3.406	0.00	172.82	86.26	259.08
	Determination start 2017-07-25 19:37:42						Method.	BCL-Cond	
		(24.5 ºC)							
BLK1		12.00							
	Determination start 2017-07-25 19:39:22				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.6 ºC)	(25.6 ºC)						
1720121-10@G	50	246.70	8.05	0.000	1.208	0.00	0.00	91.89	91.89
	Determination start 2017-07-25 19:45:10						Method.	BCL-Cond	
		(24.5 ºC)							
BLK1		10.70							
	Determination start 2017-07-25 19:46:51				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.7 ºC)	(25.9 ºC)						
1720121-11@G	25	6107.30	7.49	0.000	5.764	0.00	0.00	876.89	876.89
	Determination start 2017-07-25 19:53:36						Method.	BCL-Cond	
		(24.6 ºC)							
BLK1		19.40							

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 19:55:37				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.7 ºC)	(25.9 ºC)						
1720121-12@H	25	3678.30	7.36	0.000	3.430	0.00	0.00	521.81	521.81
	Determination start 2017-07-25 20:02:06						Method.	BCL-Cond	
		(24.5 ºC)							
BLK1		19.40							
	Determination start 2017-07-25 20:03:53				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.6 ºC)	(25.6 ºC)						
1720121-13@H	50	526.30	7.68	0.000	2.366	0.00	0.00	179.97	179.97
	Determination start 2017-07-25 20:09:26						Method.	BCL-Cond	
		(24.4 ºC)							
BLK1		12.10							
	Determination start 2017-07-25 20:11:07				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.4 ºC)	(25.7 ºC)						
1720121-14@G	25	2999.10	8.07	0.000	1.482	0.00	0.00	225.46	225.46
	Determination start 2017-07-25 20:16:33						Method.	BCL-Cond	
		(24.4 ºC)							
BLK1		16.80							
	Determination start 2017-07-25 20:18:14				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.6 ºC)	(25.8 ºC)						
1720122-03@L	25	10859.60	7.79	0.000	7.818	0.00	0.00	1189.37	1189.37
	Determination start 2017-07-25 20:25:29						Method.	BCL-Cond	
		(24.5 ºC)							
BLK1		24.50							
	Determination start 2017-07-25 20:27:29				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.7 ºC)	(25.6 ºC)						
1720122-04@K	50	777.50	7.46	0.000	4.716	0.00	0.00	358.73	358.73

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Hydroxide	Carbonate	Bicarbonate	Total Alk
						Alkalinity as CaCO3, mg/l			
	Determination start 2017-07-25 20:33:31						Method. BCL-Cond		
BLK1		(24.5 ºC) 14.40							
	Determination start 2017-07-25 20:35:18				Titer	0.076	Method. BCL-Cond-pH-Alk		
1720122-05@G	50	(23.6 ºC) 654.70	(25.5 ºC) 8.14	0.000	3.594	0.00	0.00	273.38	273.38
	Determination start 2017-07-25 20:41:07						Method. BCL-Cond		
BLK1		(24.5 ºC) 14.20							
	Determination start 2017-07-25 20:42:46						Method. BCL-Cond		
B8-BS1@COND		(23.7 ºC) 324.10							
	Determination start 2017-07-25 20:44:27						Method. BCL-pH		
B8-BS2@PH			(25.8 ºC) 7.01						
	Determination start 2017-07-25 20:47:44				Titer	0.076	Method. BCL-Cond-pH-Alk		
B8-BS3@ALK	50	(23.6 ºC) 212.70	(25.5 ºC) 9.71	0.294	1.210	0.00	44.73	47.31	92.04
	Determination start 2017-07-25 20:53:38				Titer	0.076	Method. BCL-Cond-pH-Alk-BLK1.		
B8-BLK1	50	(23.6 ºC) 4.40	(25.5 ºC) 4.64	0.000	0.012	0.00	0.00	0.91	0.91
	Determination start 2017-07-25 20:58:47				Titer	0.076	Method. BCL-Cond-pH-Alk		
1720122-06@H	25	(23.4 ºC) 5868.40	(25.7 ºC) 7.98	0.000	3.880	0.00	0.00	590.27	590.27
	Determination start 2017-07-25 21:05:00				Titer	0.076	Method. BCL-Cond-pH-Alk		
B8-DUP1	25	(23.4 ºC) 5864.80	(25.7 ºC) 7.99	0.000	3.880	0.00	0.00	590.27	590.27

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-07-25 21:11:25						Method.	BCL-Cond	
BLK1		(24.5 ºC) 20.80							
	Determination start 2017-07-25 21:13:08				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720147-01@A	50	(23.3 ºC) 720.80	(25.2 ºC) 7.31	0.000	2.330	0.00	0.00	177.23	177.23
	Determination start 2017-07-25 21:19:02						Method.	BCL-Cond	
BLK1		(24.5 ºC) 15.20							
	Determination start 2017-07-25 21:20:44				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720147-02@B	25	(23.4 ºC) 1629.70	(25.5 ºC) 7.11	0.000	5.796	0.00	0.00	881.76	881.76
	Determination start 2017-07-25 21:27:49						Method.	BCL-Cond	
BLK1		(24.5 ºC) 16.90							
	Determination start 2017-07-25 21:29:31				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720147-03@A	25	(23.2 ºC) 1532.80	(25.4 ºC) 7.48	0.000	5.488	0.00	0.00	834.90	834.90
	Determination start 2017-07-25 21:36:17				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720147-04@A	25	(23.3 ºC) 1603.80	(25.5 ºC) 7.59	0.000	5.574	0.00	0.00	847.99	847.99
	Determination start 2017-07-25 21:42:39				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720147-05@A	25	(23.5 ºC) 1021.90	(25.6 ºC) 7.72	0.000	3.720	0.00	0.00	565.93	565.93
	Determination start 2017-07-25 21:48:48				Titer	0.076	Method.	BCL-Cond-pH-Alk	
1720147-06@A	50	(23.4 ºC) 440.40	(25.3 ºC) 7.94	0.000	2.198	0.00	0.00	167.19	167.19

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start 2017-07-25 21:54:23				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.6 ºC)	(25.6 ºC)						
1720147-07@B	25	1007.70	8.00	0.000	2.794	0.00	0.00	425.06	425.06
	Determination start 2017-07-25 22:00:22				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.5 ºC)	(25.4 ºC)						
1720147-08@A	50	477.20	7.48	0.000	2.762	0.00	0.00	210.10	210.10
	Determination start 2017-07-25 22:06:44				Titer	0.076	Method.	BCL-Cond-pH-Alk	
		(23.6 ºC)	(25.6 ºC)						
1720147-09@A	25	1864.00	7.48	0.000	7.288	0.00	0.00	1108.74	1108.74
	Determination start 2017-07-25 22:13:46						Method.	BCL-Cond	
		(24.6 ºC)							
BLK1		18.10							
	Determination start 2017-07-25 22:15:43						Method.	BCL-Cond	
		(23.7 ºC)							
10000		10174.60							
	Determination start 2017-07-25 22:17:42						Method.	BCL-Cond	
		(23.4 ºC)							
303		327.00							
	Determination start 2017-07-25 22:19:17						Method.	BCL-Cond	
		(23.6 ºC)							
303		321.70							
	Determination start 2017-07-25 22:21:02						Method.	BCL-Cond	
		(23.6 ºC)							
303		326.20							
	Determination start 2017-07-25 22:22:44						Method.	BCL-pH	
			(25.5 ºC)						
7.00			7.01						

Sample ID	Sample Vol., ml	Cond., µmhos/cm	pH	P, ml	T, ml	Alkalinity as CaCO3, mg/l Hydroxide	Carbonate	Bicarbonate	Total Alk
	Determination start	2017-07-25 22:25:55					Method .	BCL-pH	
7.00		(25.5 ºC)	7.02						
	Determination start	2017-07-25 22:29:22					Method .	BCL-pH	
7.00		(25.6 ºC)	7.02						

Raw Data - Batch Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G1463

BC Laboratories

Printed: 8/22/2017 1:10:14PM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720070-01 C	iSM2320Bw OH	7/25/2017 8:00AM	RML	50	50					
1720070-01 C	i120.1w EC	7/25/2017 8:00AM		50	50					
1720070-01 C	ISM2510Bw EC	7/25/2017 8:00AM	RML	50	50					
1720070-01 C	iSM2320Bw OH Alk as CaCO3	7/25/2017 8:00AM		50	50					
1720070-01 C	iSM2320Bw HCO3 Alk as CaC	7/25/2017 8:00AM		50	50					
1720070-01 C	iSM2320Bw HCO3	7/25/2017 8:00AM	RML	50	50					
1720070-01 C	iSM2320Bw CO3 Alk as CaCO	7/25/2017 8:00AM		50	50					
1720070-01 C	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM		50	50					
1720070-01 C	i310.1w OH	7/25/2017 8:00AM		50	50					
1720070-01 C	i150.1w pH	7/25/2017 8:00AM	RML	50	50					
1720070-01 C	i310.1w HCO3	7/25/2017 8:00AM		50	50					
1720070-01 C	i310.1w CO3	7/25/2017 8:00AM		50	50					
1720070-01 C	iSM2320Bw CO3	7/25/2017 8:00AM	RML	50	50					
1720070-01 C	iSM2320Bw Tot Alk as CaCO3	7/25/2017 8:00AM		50	50					
1720079-01 I	i150.1w pH	7/25/2017 8:00AM	RML	50	50					
1720079-01 I	iSM2320Bw Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720079-01 I	iSM2320Bw OH Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720079-01 I	iSM2320Bw CO3 Alk as CaCO	7/25/2017 8:00AM	RML	50	50					
1720079-01 I	iSM2320Bw HCO3 Alk as CaC	7/25/2017 8:00AM	RML	50	50					
1720080-01 I	iSM2320Bw OH Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720080-01 I	i150.1w pH	7/25/2017 8:00AM	RML	50	50					
1720080-01 I	iSM2320Bw CO3 Alk as CaCO	7/25/2017 8:00AM	RML	50	50					
1720080-01 I	iSM2320Bw Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720080-01 I	iSM2320Bw HCO3 Alk as CaC	7/25/2017 8:00AM	RML	50	50					
1720082-01 A	i120.1w EC	7/25/2017 8:00AM	RML	50	50					

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G1463

BC Laboratories

Printed: 8/22/2017 1:10:14PM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720084-01 D	i120.1w EC	7/25/2017 8:00AM	RML	50	50					
1720084-01 D	i150.1w pH	7/25/2017 8:00AM	RML	50	50					
1720084-01 D	iSM2320Bw CO3	7/25/2017 8:00AM	RML	50	50					
1720084-01 D	iSM2320Bw HCO3	7/25/2017 8:00AM	RML	50	50					
1720084-01 D	iSM2320Bw OH	7/25/2017 8:00AM	RML	50	50					
1720109-01 A	i310.1w OH	7/25/2017 8:00AM	RML	50	50					
1720109-01 A	i150.1w pH	7/25/2017 8:00AM	RML	50	50					
1720109-01 A	i310.1w CO3	7/25/2017 8:00AM	RML	50	50					
1720109-01 A	i310.1w HCO3	7/25/2017 8:00AM	RML	50	50					
1720121-01 S	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720121-03 G	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720121-06 G	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720121-07 G	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
B[G1463-BLK1	QC	7/25/2017 8:00AM	RML	50	50					
B[G1463-BS1	QC	7/25/2017 8:00AM	RML	50	50	6K28023		50000		
B[G1463-BS2	QC	7/25/2017 8:00AM	RML	50	50	7G11062		50000		
B[G1463-BS3	QC	7/25/2017 8:00AM	RML	50	50	7G27013		5000		
B[G1463-DUP1	QC	7/25/2017 8:00AM	RML	50	50		1720070-01			

Spike Mixes	Description	Solvent	Prepared	Expires
6K28023	EC LCSW WORKING	H2O (DI)	3/21/2017 by Rosa Ledesma	9/21/2017
7G11062	pH 7 LCSW Check	H20	7/11/2017 by ** Vendor **	2/28/2019
7G27013	ALK NA2CO3	H2O	5/31/2017 by Rosa Ledesma	10/31/2017

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G1464

BC Laboratories

Printed: 8/22/2017 1:10:14PM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720121-08 G	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720121-09 G	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720121-10 G	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720121-11 G	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720121-12 G	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720121-13 G	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720121-14 G	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720122-03 J	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720122-04 J	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
1720122-05 G	i310.1w Tot Alk as CaCO3	7/25/2017 8:00AM	RML	50	50					
B[G1464-BLK1	QC	7/25/2017 8:00AM	RML	50	50					
B[G1464-BS3	QC	7/25/2017 8:00AM	RML	50	50	7G27013		5000		
B[G1464-DUP1	QC	7/25/2017 8:00AM	RML	50	50		1720121-08			

Spike Mixes	Description	Solvent	Prepared	Expires
7G27013	ALK NA2CO3	H2O	5/31/2017 by Rosa Ledesma	10/31/2017

Raw Data - Sequence Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713172

Instrument: MET-1
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713172-ICV1	QC		1		7B07020		
B[G1458-BS1	QC		2				
B[G1458-BS2	QC		3				
B[G1458-BS3	QC		4				
B[G1458-BLK1	QC		5				
1719674-02	i120.1w EC	A	6				
1719674-02	i150.1w pH	A	6				BatchQC
1719674-02	i310.1w CO3	A	6				BatchQC
1719674-02	i310.1w CO3 Alk as CaCO3	A	6				
1719674-02	i310.1w HCO3	A	6				BatchQC
1719674-02	i310.1w HCO3 Alk as CaCO3	A	6				
1719674-02	i310.1w OH Alk as CaCO3	A	6				
1719674-02	i310.1w Tot Alk as CaCO3	A	6				
1719674-02	iSM2320Bw CO3	A	6				BatchQC
1719674-02	iSM2320Bw HCO3	A	6				BatchQC
1719674-02	iSM2320Bw OH	A	6				BatchQC
1719674-02	ISM2510Bw EC	A	6				BatchQC
B[G1458-DUP1	QC		7				
1720081-01	i120.1w EC	A	8				
1720196-01	i150.1w pH	A	9				
1720196-01	iSM2320Bw CO3	A	9				
1720196-01	iSM2320Bw HCO3	A	9				
1720196-01	iSM2320Bw OH	A	9				
1720196-01	ISM2510Bw EC	A	9				
1720265-01	i150.1w pH	A	10				
1720266-01	i150.1w pH	A	11				
1720266-02	i150.1w pH	A	12				
1720266-03	i150.1w pH	A	13				
1720266-04	i150.1w pH	A	14				
1720266-05	i150.1w pH	A	15				
B[G1459-BS1	QC		16				
B[G1459-BS2	QC		17				
B[G1459-BS3	QC		18				
B[G1459-BLK1	QC		19				
1719891-01	i120.1w EC	D	20				BatchQC
1719891-01	i150.1w pH	D	20				BatchQC
1719891-01	i310.1w CO3 Alk as CaCO3	D	20				BatchQC
1719891-01	i310.1w HCO3 Alk as CaCO3	D	20				BatchQC
1719891-01	i310.1w OH Alk as CaCO3	D	20				BatchQC

ANALYSIS SEQUENCE

1713172

Instrument: MET-1
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1719891-01	i310.1w Tot Alk as CaCO3	D	20				BatchQC
1719891-01	iSM2320Bw CO3	D	20				BatchQC
1719891-01	iSM2320Bw CO3 Alk as CaCO3	D	20				
1719891-01	iSM2320Bw HCO3	D	20				BatchQC
1719891-01	iSM2320Bw HCO3 Alk as CaC(	D	20				
1719891-01	iSM2320Bw OH	D	20				BatchQC
1719891-01	iSM2320Bw OH Alk as CaCO3	D	20				BatchQC
1719891-01	iSM2320Bw Tot Alk as CaCO3	D	20				BatchQC
1719891-01	ISM2510Bw EC	D	20				BatchQC
B[G1459-DUP1	QC		21				
1719674-03	i120.1w EC	A	22				
1719674-03	i310.1w CO3 Alk as CaCO3	A	22				
1719674-03	i310.1w HCO3 Alk as CaCO3	A	22				
1719674-03	i310.1w OH Alk as CaCO3	A	22				
1719674-03	i310.1w Tot Alk as CaCO3	A	22				
1719674-04	i120.1w EC	A	23				
1719674-04	i310.1w CO3 Alk as CaCO3	A	23				
1719674-04	i310.1w HCO3 Alk as CaCO3	A	23				
1719674-04	i310.1w OH Alk as CaCO3	A	23				
1719674-04	i310.1w Tot Alk as CaCO3	A	23				
1719714-05	i310.1w CO3 Alk as CaCO3	D	24				
1719714-05	i310.1w HCO3 Alk as CaCO3	D	24				
1719714-05	i310.1w OH Alk as CaCO3	D	24				
1719714-05	i310.1w Tot Alk as CaCO3	D	24				
1719740-01	i150.1w pH	A	25				
1719740-01	iSM2320Bw CO3	A	25				
1719740-01	iSM2320Bw HCO3	A	25				
1719740-01	iSM2320Bw OH	A	25				
1719740-01	ISM2510Bw EC	A	25				
1719740-02	i150.1w pH	A	26				
1719740-02	iSM2320Bw CO3	A	26				
1719740-02	iSM2320Bw HCO3	A	26				
1719740-02	iSM2320Bw OH	A	26				
1719740-02	ISM2510Bw EC	A	26				
1719749-01	i120.1w EC	A	27				
1719749-01	i150.1w pH	A	27				
1719811-01	i150.1w pH	I	28				
1719811-01	iSM2320Bw CO3 Alk as CaCO3	I	28				
1719811-01	iSM2320Bw HCO3 Alk as CaC(	I	28				

ANALYSIS SEQUENCE

1713172

Instrument: MET-1
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1719811-01	iSM2320Bw OH Alk as CaCO3	I	28				
1719811-01	iSM2320Bw Tot Alk as CaCO3	I	28				
1719845-01	i120.1w EC	A	29				
1719891-02	iSM2320Bw CO3 Alk as CaCO3	D	30				
1719891-02	iSM2320Bw HCO3 Alk as CaC(	D	30				
B[G1460-BS1	QC		31				
B[G1460-BS2	QC		32				
B[G1460-BS3	QC		33				
B[G1460-BLK1	QC		34				
1719983-04	i120.1w EC	A	35				
1719983-04	i150.1w pH	A	35				
1719983-04	i310.1w CO3	A	35				
1719983-04	i310.1w HCO3	A	35				
1719983-04	i310.1w OH	A	35				
1719983-04	iSM2320Bw CO3 Alk as CaCO3	A	35				BatchQC
1719983-04	iSM2320Bw HCO3 Alk as CaC(	A	35				BatchQC
1719983-04	ISM2510Bw EC	A	35				BatchQC
B[G1460-DUP1	QC		36				
1719891-03	iSM2320Bw CO3 Alk as CaCO3	D	37				
1719891-03	iSM2320Bw HCO3 Alk as CaC(	D	37				
1719969-01	i150.1w pH	D	38				
1719983-05	i120.1w EC	A	39				
1719983-05	i150.1w pH	A	39				
1719983-05	i310.1w CO3	A	39				
1719983-05	i310.1w HCO3	A	39				
1719983-05	i310.1w OH	A	39				
1719983-06	i120.1w EC	A	40				
1719983-06	i150.1w pH	A	40				
1719983-06	i310.1w CO3	A	40				
1719983-06	i310.1w HCO3	A	40				
1719983-06	i310.1w OH	A	40				
1719995-02	i120.1w EC	D	41				
1719995-02	i150.1w pH	D	41				
1719995-02	i310.1w CO3	D	41				
1719995-02	i310.1w HCO3	D	41				
1719995-03	i120.1w EC	D	42				
1719995-03	i150.1w pH	D	42				
1719995-03	i310.1w CO3	D	42				
1719995-03	i310.1w HCO3	D	42				

ANALYSIS SEQUENCE

1713172

Instrument: MET-1
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1719995-04	i120.1w EC	D	43				
1719995-04	i150.1w pH	D	43				
1719995-04	i310.1w CO3	D	43				
1719995-04	i310.1w HCO3	D	43				
1719997-02	ISM2510Bw EC	A	44				
1720006-01	ISM2510Bw EC	A	45				
B[G1461-BS3	QC		46				
B[G1461-BLK1	QC		47				
1720018-08	i310.1w Tot Alk as CaCO3	S	48				
B[G1461-DUP1	QC		49				
1720018-01	i310.1w Tot Alk as CaCO3	D	50				
1720018-02	i310.1w Tot Alk as CaCO3	D	51				
1720018-04	i310.1w Tot Alk as CaCO3	G	52				
1720018-05	i310.1w Tot Alk as CaCO3	G	53				
1720018-06	i310.1w Tot Alk as CaCO3	G	54				
1720018-07	i310.1w Tot Alk as CaCO3	G	55				
1720018-09	i310.1w Tot Alk as CaCO3	G	56				
1720018-10	i310.1w Tot Alk as CaCO3	G	57				
1720018-11	i310.1w Tot Alk as CaCO3	G	58				
B[G1462-BS1	QC		59				
B[G1462-BS2	QC		60				
B[G1462-BS3	QC		61				
B[G1462-BLK1	QC		62				
1720060-02	i150.1w pH	D	63				BatchQC
1720060-02	i310.1w CO3	D	63				
1720060-02	i310.1w HCO3	D	63				
1720060-02	i310.1w Tot Alk as CaCO3	D	63				BatchQC
1720060-02	iSM2320Bw CO3	D	63				BatchQC
1720060-02	iSM2320Bw HCO3	D	63				BatchQC
1720060-02	iSM2320Bw OH	D	63				BatchQC
1720060-02	ISM2510Bw EC	D	63				BatchQC
1720060-02	iSM4500HBw pH	D	63				BatchQC
B[G1462-DUP1	QC		64				
1720029-05	i310.1w Tot Alk as CaCO3	J	65				
1720029-11	i310.1w Tot Alk as CaCO3	J	66				
1720053-01	ISM2510Bw EC	B	67				
1720053-01	iSM4500HBw pH	B	67				
1720060-01	i310.1w CO3	D	68				
1720060-01	i310.1w HCO3	D	68				

ANALYSIS SEQUENCE

1713172

Instrument: MET-1
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1720060-03	i310.1w CO3	D	69				
1720060-03	i310.1w HCO3	D	69				
1720060-04	i310.1w CO3	D	70				
1720060-04	i310.1w HCO3	D	70				
1720064-01	i150.1w pH	D	71				
1720064-01	iSM2320Bw CO3	D	71				
1720064-01	iSM2320Bw HCO3	D	71				
1720064-01	iSM2320Bw OH	D	71				
1720064-01	ISM2510Bw EC	D	71				
1720066-01	i150.1w pH	D	72				
1720066-01	iSM2320Bw CO3	D	72				
1720066-01	iSM2320Bw HCO3	D	72				
1720066-01	iSM2320Bw OH	D	72				
1720066-01	ISM2510Bw EC	D	72				
1720068-01	i150.1w pH	D	73				
1720068-01	iSM2320Bw CO3	D	73				
1720068-01	iSM2320Bw HCO3	D	73				
1720068-01	iSM2320Bw OH	D	73				
1720068-01	ISM2510Bw EC	D	73				
B[G1463-BS1	QC		74				
B[G1463-BS2	QC		75				
B[G1463-BS3	QC		76				
B[G1463-BLK1	QC		77				
1720070-01	i120.1w EC	C	78				BatchQC
1720070-01	i150.1w pH	C	78				
1720070-01	i310.1w CO3	C	78				BatchQC
1720070-01	i310.1w HCO3	C	78				BatchQC
1720070-01	i310.1w OH	C	78				BatchQC
1720070-01	i310.1w Tot Alk as CaCO3	C	78				BatchQC
1720070-01	iSM2320Bw CO3	C	78				
1720070-01	iSM2320Bw CO3 Alk as CaCO3	C	78				BatchQC
1720070-01	iSM2320Bw HCO3	C	78				
1720070-01	iSM2320Bw HCO3 Alk as CaC(	C	78				BatchQC
1720070-01	iSM2320Bw OH	C	78				
1720070-01	iSM2320Bw OH Alk as CaCO3	C	78				BatchQC
1720070-01	iSM2320Bw Tot Alk as CaCO3	C	78				BatchQC
1720070-01	ISM2510Bw EC	C	78				
B[G1463-DUP1	QC		79				
1720079-01	i150.1w pH	I	80				

ANALYSIS SEQUENCE

1713172

Instrument: MET-1
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1720079-01	iSM2320Bw CO3 Alk as CaCO3	I	80				
1720079-01	iSM2320Bw HCO3 Alk as CaC(	I	80				
1720079-01	iSM2320Bw OH Alk as CaCO3	I	80				
1720079-01	iSM2320Bw Tot Alk as CaCO3	I	80				
1720080-01	i150.1w pH	I	81				
1720080-01	iSM2320Bw CO3 Alk as CaCO3	I	81				
1720080-01	iSM2320Bw HCO3 Alk as CaC(	I	81				
1720080-01	iSM2320Bw OH Alk as CaCO3	I	81				
1720080-01	iSM2320Bw Tot Alk as CaCO3	I	81				
1720082-01	i120.1w EC	A	82				
1720084-01	i120.1w EC	D	83				
1720084-01	i150.1w pH	D	83				
1720084-01	iSM2320Bw CO3	D	83				
1720084-01	iSM2320Bw HCO3	D	83				
1720084-01	iSM2320Bw OH	D	83				
1720109-01	i150.1w pH	A	84				
1720109-01	i310.1w CO3	A	84				
1720109-01	i310.1w HCO3	A	84				
1720109-01	i310.1w OH	A	84				
1720121-01	i310.1w Tot Alk as CaCO3	S	85				
1720121-03	i310.1w Tot Alk as CaCO3	G	86				
1720121-06	i310.1w Tot Alk as CaCO3	G	87				
1720121-07	i310.1w Tot Alk as CaCO3	G	88				
B[G1464-BS3	QC		89				
B[G1464-BLK1	QC		90				
1720121-08	i310.1w Tot Alk as CaCO3	G	91				
B[G1464-DUP1	QC		92				
1720121-09	i310.1w Tot Alk as CaCO3	G	93				
1720121-10	i310.1w Tot Alk as CaCO3	G	94				
1720121-11	i310.1w Tot Alk as CaCO3	G	95				
1720121-12	i310.1w Tot Alk as CaCO3	G	96				
1720121-13	i310.1w Tot Alk as CaCO3	G	97				
1720121-14	i310.1w Tot Alk as CaCO3	G	98				
1720122-03	i310.1w Tot Alk as CaCO3	J	99				
1720122-04	i310.1w Tot Alk as CaCO3	J	100				
1720122-05	i310.1w Tot Alk as CaCO3	G	101				
B[G2098-BS1	QC		102				
B[G2098-BS2	QC		103				
B[G2098-BS3	QC		104				

ANALYSIS SEQUENCE

1713172

Instrument: MET-1
Calibration ID:
Sequence Date: 07/25/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
B[G2098-BLK1	QC		105				
1720122-06	i310.1w Tot Alk as CaCO3	G	106				
1720122-06	iSM2320Bw CO3 Alk as CaCO3	G	106				BatchQC
1720122-06	iSM2320Bw HCO3 Alk as CaC(	G	106				BatchQC
1720122-06	ISM2510Bw EC	G	106				BatchQC
B[G2098-DUP1	QC		107				
1720147-01	iSM2320Bw CO3 Alk as CaCO3	A	108				
1720147-01	iSM2320Bw HCO3 Alk as CaC(	A	108				
1720147-01	ISM2510Bw EC	A	108				
1720147-02	iSM2320Bw CO3 Alk as CaCO3	A	109				
1720147-02	iSM2320Bw HCO3 Alk as CaC(	A	109				
1720147-02	ISM2510Bw EC	A	109				
1720147-03	iSM2320Bw CO3 Alk as CaCO3	A	110				
1720147-03	iSM2320Bw HCO3 Alk as CaC(	A	110				
1720147-03	ISM2510Bw EC	A	110				
1720147-04	iSM2320Bw CO3 Alk as CaCO3	A	111				
1720147-04	iSM2320Bw HCO3 Alk as CaC(	A	111				
1720147-04	ISM2510Bw EC	A	111				
1720147-05	iSM2320Bw CO3 Alk as CaCO3	A	112				
1720147-05	iSM2320Bw HCO3 Alk as CaC(	A	112				
1720147-05	ISM2510Bw EC	A	112				
1720147-06	iSM2320Bw CO3 Alk as CaCO3	A	113				
1720147-06	iSM2320Bw HCO3 Alk as CaC(	A	113				
1720147-06	ISM2510Bw EC	A	113				
1720147-07	iSM2320Bw CO3 Alk as CaCO3	A	114				
1720147-07	iSM2320Bw HCO3 Alk as CaC(	A	114				
1720147-07	ISM2510Bw EC	A	114				
1720147-08	iSM2320Bw CO3 Alk as CaCO3	A	115				
1720147-08	iSM2320Bw HCO3 Alk as CaC(	A	115				
1720147-08	ISM2510Bw EC	A	115				
1720147-09	iSM2320Bw CO3 Alk as CaCO3	A	116				
1720147-09	iSM2320Bw HCO3 Alk as CaC(	A	116				
1720147-09	ISM2510Bw EC	A	116				

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-20121**
Class: **WET**
Method: **EPA-353.2**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSES DATA PACKAGE COVER PAGE

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
15-MW1_170721	1720121-01
15-MW3_170721	1720121-03
27MW03_170721	1720121-06
27MW04_170721	1720121-07
27MW10_170721	1720121-08
27MW11_170721	1720121-09
27MW12_170721	1720121-10
M14-15_170721	1720121-11
M14-16_170721	1720121-12
27EW-12_170721	1720121-13
27MW13_170721	1720121-14

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 08-22-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: KONE-1

Analyte	DL	LOD	LOQ	Units
Nitrite as N	0.01	0.03	0.05	mg/L
Nitrite as NO2	0.04	0.1	0.17	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

15-MW1_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-01
File ID: 170721 0719 NO2-178
Sampled: 07/21/17 08:30
Prepared: 07/21/17 23:44
Analyzed: 07/21/17 23:44
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1940
Sequence: 1713148
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

15-MW3_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-03
File ID: 170721 0719 NO2-182
Sampled: 07/21/17 09:40
Prepared: 07/21/17 23:44
Analyzed: 07/21/17 23:44
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1940
Sequence: 1713148
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

27MW03_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-06
File ID: 170721 0719 NO2-183
Sampled: 07/21/17 09:20
Prepared: 07/21/17 23:44
Analyzed: 07/21/17 23:44
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1940
Sequence: 1713148
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

27MW04_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-07
File ID: 170721 0719 NO2-184
Sampled: 07/21/17 11:45
Prepared: 07/21/17 23:44
Analyzed: 07/21/17 23:44
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1940
Sequence: 1713148
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

27MW10_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-08
File ID: 170721 0719 NO2-185
Sampled: 07/21/17 10:26
Prepared: 07/21/17 23:44
Analyzed: 07/21/17 23:44
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1940
Sequence: 1713148
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

27MW11_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-09
File ID: 170721 0719 NO2-188
Sampled: 07/21/17 10:50
Prepared: 07/21/17 23:44
Analyzed: 07/21/17 23:49
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1940
Sequence: 1713148
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

27MW12_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-10
File ID: 170721 0719 NO2-189
Sampled: 07/21/17 11:35
Prepared: 07/21/17 23:44
Analyzed: 07/21/17 23:49
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1940
Sequence: 1713148
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

M14-15_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-11
File ID: 170721 0719 NO2-214
Sampled: 07/21/17 08:20
Prepared: 07/21/17 23:44
Analyzed: 07/22/17 00:09
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1940
Sequence: 1713148
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

M14-16_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-12
File ID: 170721 0719 NO2-215
Sampled: 07/21/17 09:15
Prepared: 07/21/17 23:44
Analyzed: 07/22/17 00:09
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1940
Sequence: 1713148
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

27EW-12_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-13
File ID: 170721 0719 NO2-192
Sampled: 07/21/17 12:56
Prepared: 07/21/17 23:44
Analyzed: 07/21/17 23:49
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1940
Sequence: 1713148
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-353.2

27MW13_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-14
File ID: 170721 0719 NO2-193
Sampled: 07/21/17 13:10
Prepared: 07/21/17 23:44
Analyzed: 07/21/17 23:49
Solids: 0.00
Preparation: No Prep
Initial/Final: 20 ml / 20 ml
Batch: B[G1941
Sequence: 1713148
Calibration: UNASSIGNED
Instrument: KONE-1

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	1	U	EPA-353.2

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G1940
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
15-MW1_170721	1720121-01	170721 0719 NO2-178	07/21/17 23:44	
15-MW3_170721	1720121-03	170721 0719 NO2-182	07/21/17 23:44	
27MW03_170721	1720121-06	170721 0719 NO2-183	07/21/17 23:44	
27MW04_170721	1720121-07	170721 0719 NO2-184	07/21/17 23:44	
27MW10_170721	1720121-08	170721 0719 NO2-185	07/21/17 23:44	
27MW11_170721	1720121-09	170721 0719 NO2-188	07/21/17 23:44	
27MW12_170721	1720121-10	170721 0719 NO2-189	07/21/17 23:44	
M14-15_170721	1720121-11	170721 0719 NO2-214	07/21/17 23:44	
M14-16_170721	1720121-12	170721 0719 NO2-215	07/21/17 23:44	
27EW-12_170721	1720121-13	170721 0719 NO2-192	07/21/17 23:44	
Blank	B[G1940-BLK1	170721 0719 NO2-177	07/21/17 23:44	
LCS	B[G1940-BS1	170721 0719 NO2-176	07/21/17 23:44	
15-MW1_170721	B[G1940-DUP1	170721 0719 NO2-179	07/21/17 23:44	
15-MW1_170721	B[G1940-MS1	170721 0719 NO2-180	07/21/17 23:44	
15-MW1_170721	B[G1940-MSD1	170721 0719 NO2-181	07/21/17 23:44	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G1941
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27MW13_170721	1720121-14	170721 0719 NO2-193	07/21/17 23:44	
Blank	B[G1941-BLK1	170721 0719 NO2-225	07/21/17 23:44	
LCS	B[G1941-BS1	170721 0719 NO2-224	07/21/17 23:44	
Duplicate	B[G1941-DUP1	170721 0719 NO2-227	07/21/17 23:44	
Matrix Spike	B[G1941-MS1	170721 0719 NO2-228	07/21/17 23:44	
Matrix Spike Dup	B[G1941-MSD1	170721 0719 NO2-229	07/21/17 23:44	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-353.2

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G1940-BLK1	File ID:	170721 0719 NO2-177
Prepared:	07/21/17 23:44	Preparation:	No Prep	Initial/Final:	20 ml / 20 ml
Analyzed:	07/21/17 23:44	Instrument:	KONE-1		
Batch:	B[G1940	Sequence:	1713148	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-353.2

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G1941-BLK1	File ID:	170721 0719 NO2-225
Prepared:	07/21/17 23:44	Preparation:	No Prep	Initial/Final:	20 ml / 20 ml
Analyzed:	07/22/17 00:30	Instrument:	KONE-1		
Batch:	B[G1941	Sequence:	1713148	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
14797-65-0	Nitrite as N	0.030	0.010	0.030	0.050	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

15-MW1_170721

DUPLICATES

EPA-353.2

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[G1940
Preparation: No Prep
Source Sample Name: 15-MW1_170721

SDG: 17-20121
Project: Alameda
Laboratory ID: B[G1940-DUP1
Lab Source ID: 1720121-01
Initial/Final: 20 ml / 20 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Nitrite as N	10	0.0095700		ND				EPA-353.2
Nitrite as NO2	10	0.031433		ND				EPA-353.2

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

Duplicate

DUPLICATES

EPA-353.2

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[G1941
Preparation: No Prep
Source Sample Name: Duplicate

SDG: 17-20121
Project: Alameda
Laboratory ID: B[G1941-DUP1
Lab Source ID: 1720110-12
Initial/Final: 20 ml / 20 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Nitrite as N	10	0.088195		0.088423		0.258		EPA-353.2
Nitrite as NO2	10	0.28968		0.29043		0.258		EPA-353.2

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-353.2

15-MW1_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1940
Laboratory ID: B[G1940-MS1
Preparation: No Prep
Initial/Final: 19 ml / 20 ml
Source Sample Number: 1720121-01

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Nitrite as N	0.52632	ND	0.53915	102	90 - 110
Nitrite as NO2	1.7289	ND	1.7708	102	90 - 110

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Nitrite as N	0.52632	0.53232	101	1.27	10	90 - 110
Nitrite as NO2	1.7289	1.7484	101	1.27	10	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-353.2

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1941
Laboratory ID: B[G1941-MS1
Preparation: No Prep
Initial/Final: 19 ml / 20 ml
Source Sample Number: 1720110-12

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Nitrite as N	0.52632	0.088195	0.61262	99.6	90 - 110
Nitrite as NO2	1.7289	0.28968	2.0121	99.6	90 - 110

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Nitrite as N	0.52632	0.61361	99.8	0.163	10	90 - 110
Nitrite as NO2	1.7289	2.0154	99.8	0.163	10	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1940
Laboratory ID: B[G1940-BS1
Preparation: No Prep
Initial/Final: 20 ml / 20 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Nitrite as N	0.50000	0.49754	99.5	90 - 110
Nitrite as NO2	1.6425	1.6342	99.5	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-353.2

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[G1941	Laboratory ID:	B[G1941-BS1
Preparation:	No Prep	Initial/Final:	20 ml / 20 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Nitrite as N	0.50000	0.51274	103	90 - 110
Nitrite as NO2	1.6425	1.6841	103	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713148
Instrument: KONE-1
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1713148-CCV1	170721 0719 NO2-174	07/21/17 23:44
Calibration Blank	1713148-CCB1	170721 0719 NO2-175	07/21/17 23:44
LCS	B[G1940-BS1	170721 0719 NO2-176	07/21/17 23:44
Blank	B[G1940-BLK1	170721 0719 NO2-177	07/21/17 23:44
15-MW1_170721	1720121-01	170721 0719 NO2-178	07/21/17 23:44
15-MW1_170721	B[G1940-DUP1	170721 0719 NO2-179	07/21/17 23:44
15-MW1_170721	B[G1940-MS1	170721 0719 NO2-180	07/21/17 23:44
15-MW1_170721	B[G1940-MSD1	170721 0719 NO2-181	07/21/17 23:44
15-MW3_170721	1720121-03	170721 0719 NO2-182	07/21/17 23:44
27MW03_170721	1720121-06	170721 0719 NO2-183	07/21/17 23:44
27MW04_170721	1720121-07	170721 0719 NO2-184	07/21/17 23:44
27MW10_170721	1720121-08	170721 0719 NO2-185	07/21/17 23:44
Calibration Check	1713148-CCV2	170721 0719 NO2-186	07/21/17 23:49
Calibration Blank	1713148-CCB2	170721 0719 NO2-187	07/21/17 23:49
27MW11_170721	1720121-09	170721 0719 NO2-188	07/21/17 23:49
27MW12_170721	1720121-10	170721 0719 NO2-189	07/21/17 23:49
27EW-12_170721	1720121-13	170721 0719 NO2-192	07/21/17 23:49
27MW13_170721	1720121-14	170721 0719 NO2-193	07/21/17 23:49
Calibration Check	1713148-CCV3	170721 0719 NO2-196	07/21/17 23:50
Calibration Blank	1713148-CCB3	170721 0719 NO2-197	07/21/17 23:50
Calibration Check	1713148-CCV4	170721 0719 NO2-198	07/22/17 00:04
Calibration Blank	1713148-CCB4	170721 0719 NO2-199	07/22/17 00:04
Calibration Check	1713148-CCV5	170721 0719 NO2-210	07/22/17 00:09
Calibration Blank	1713148-CCB5	170721 0719 NO2-211	07/22/17 00:09
M14-15_170721	1720121-11	170721 0719 NO2-214	07/22/17 00:09
M14-16_170721	1720121-12	170721 0719 NO2-215	07/22/17 00:09

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713148
Instrument: KONE-1
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1713148-CCV6	170721 0719 NO2-220	07/22/17 00:10
Calibration Blank	1713148-CCB6	170721 0719 NO2-221	07/22/17 00:10
Calibration Check	1713148-CCV7	170721 0719 NO2-222	07/22/17 00:30
Calibration Blank	1713148-CCB7	170721 0719 NO2-223	07/22/17 00:30
LCS	B[G1941-BS1	170721 0719 NO2-224	07/22/17 00:30
Blank	B[G1941-BLK1	170721 0719 NO2-225	07/22/17 00:30
Duplicate	B[G1941-DUP1	170721 0719 NO2-227	07/22/17 00:30
Matrix Spike	B[G1941-MS1	170721 0719 NO2-228	07/22/17 00:30
Matrix Spike Dup	B[G1941-MSD1	170721 0719 NO2-229	07/22/17 00:30
Calibration Check	1713148-CCV8	170721 0719 NO2-234	07/22/17 00:34
Calibration Blank	1713148-CCB8	170721 0719 NO2-235	07/22/17 00:34
Calibration Check	1713148-CCV9	170721 0719 NO2-240	07/22/17 00:37
Calibration Blank	1713148-CCB9	170721 0719 NO2-241	07/22/17 00:37
Calibration Check	1713148-CCVA	170721 0719 NO2-242	07/22/17 00:56
Calibration Blank	1713148-CCBA	170721 0719 NO2-243	07/22/17 00:56
Calibration Check	1713148-CCVB	170721 0719 NO2-254	07/22/17 00:59
Calibration Blank	1713148-CCBB	170721 0719 NO2-255	07/22/17 00:59
Calibration Check	1713148-CCVC	170721 0719 NO2-260	07/22/17 01:02
Calibration Blank	1713148-CCBC	170721 0719 NO2-261	07/22/17 01:02
Calibration Check	1713148-CCVD	170721 0719 NO2-262	07/22/17 12:46
Calibration Blank	1713148-CCBD	170721 0719 NO2-263	07/22/17 12:46
Calibration Check	1713148-CCVE	170721 0719 NO2-270	07/22/17 12:48
Calibration Blank	1713148-CCBE	170721 0719 NO2-271	07/22/17 12:48

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BLANKS
EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: KONE-1
Project: Alameda
Sequence: 1713148
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1713148-CCB1	Nitrite as N	0.0087290	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.028670	0.040		0.17	mg/L	U	EPA-353.2
1713148-CCB2	Nitrite as N	0.0095390	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.031331	0.040		0.17	mg/L	U	EPA-353.2
1713148-CCB3	Nitrite as N	0.0086050	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.028263	0.040		0.17	mg/L	U	EPA-353.2
1713148-CCB4	Nitrite as N	0.0097960	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.032175	0.040		0.17	mg/L	U	EPA-353.2
1713148-CCB5	Nitrite as N	0.0099010	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.032520	0.040		0.17	mg/L	U	EPA-353.2
1713148-CCB6	Nitrite as N	0.010582	0.010		0.050	mg/L	J	EPA-353.2
	Nitrite as NO2	0.034757	0.040		0.17	mg/L	U	EPA-353.2
1713148-CCB7	Nitrite as N	0.0098320	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.032293	0.040		0.17	mg/L	U	EPA-353.2
1713148-CCB8	Nitrite as N	0.0093430	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.030687	0.040		0.17	mg/L	U	EPA-353.2
1713148-CCB9	Nitrite as N	0.0092670	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.030437	0.040		0.17	mg/L	U	EPA-353.2
1713148-CCBA	Nitrite as N	0.0097580	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.032050	0.040		0.17	mg/L	U	EPA-353.2
1713148-CCBB	Nitrite as N	0.0094260	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.030960	0.040		0.17	mg/L	U	EPA-353.2
1713148-CCBC	Nitrite as N	0.0094980	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.031196	0.040		0.17	mg/L	U	EPA-353.2
1713148-CCBD	Nitrite as N	0.0079520	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.026118	0.040		0.17	mg/L	U	EPA-353.2
1713148-CCBE	Nitrite as N	0.0085190	0.010		0.050	mg/L	U	EPA-353.2
	Nitrite as NO2	0.027981	0.040		0.17	mg/L	U	EPA-353.2

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL AND CONTINUING CALIBRATION CHECK

EPA-353.2

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: KONE-1
Control Limt: +/- 10.00%

SDG: 17-20121
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1713148

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1713148-CCV1	Nitrite as N	0.50000	0.51449	103	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6898	103	mg/L	EPA-353.2
1713148-CCV2	Nitrite as N	0.50000	0.51542	103	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6929	103	mg/L	EPA-353.2
1713148-CCV3	Nitrite as N	0.50000	0.51019	102	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6757	102	mg/L	EPA-353.2
1713148-CCV4	Nitrite as N	0.50000	0.51390	103	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6879	103	mg/L	EPA-353.2
1713148-CCV5	Nitrite as N	0.50000	0.52178	104	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.7138	104	mg/L	EPA-353.2
1713148-CCV6	Nitrite as N	0.50000	0.51918	104	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.7053	104	mg/L	EPA-353.2
1713148-CCV7	Nitrite as N	0.50000	0.51934	104	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.7058	104	mg/L	EPA-353.2
1713148-CCV8	Nitrite as N	0.50000	0.51921	104	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.7054	104	mg/L	EPA-353.2
1713148-CCV9	Nitrite as N	0.50000	0.52268	105	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.7167	105	mg/L	EPA-353.2
1713148-CCVA	Nitrite as N	0.50000	0.52316	105	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.7183	105	mg/L	EPA-353.2
1713148-CCVB	Nitrite as N	0.50000	0.51924	104	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.7054	104	mg/L	EPA-353.2
1713148-CCVC	Nitrite as N	0.50000	0.52520	105	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.7250	105	mg/L	EPA-353.2
1713148-CCVD	Nitrite as N	0.50000	0.50114	100	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6460	100	mg/L	EPA-353.2
1713148-CCVE	Nitrite as N	0.50000	0.50517	101	mg/L	EPA-353.2
	Nitrite as NO2	1.6425	1.6592	101	mg/L	EPA-353.2

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

HOLDING TIME SUMMARY
EPA-353.2

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
15-MW1_170721	07/21/17 08:30	07/21/17 21:30	07/21/17 23:44	0.63	2.00	07/21/17 23:44	0.63	2.00	
15-MW3_170721	07/21/17 09:40	07/21/17 21:30	07/21/17 23:44	0.59	2.00	07/21/17 23:44	0.59	2.00	
27MW03_170721	07/21/17 09:20	07/21/17 21:30	07/21/17 23:44	0.60	2.00	07/21/17 23:44	0.60	2.00	
27MW04_170721	07/21/17 11:45	07/21/17 21:30	07/21/17 23:44	0.50	2.00	07/21/17 23:44	0.50	2.00	
27MW10_170721	07/21/17 10:26	07/21/17 21:30	07/21/17 23:44	0.55	2.00	07/21/17 23:44	0.55	2.00	
27MW11_170721	07/21/17 10:50	07/21/17 21:30	07/21/17 23:44	0.54	2.00	07/21/17 23:49	0.54	2.00	
27MW12_170721	07/21/17 11:35	07/21/17 21:30	07/21/17 23:44	0.51	2.00	07/21/17 23:49	0.51	2.00	
M14-15_170721	07/21/17 08:20	07/21/17 21:30	07/21/17 23:44	0.66	2.00	07/22/17 00:09	0.66	2.00	
M14-16_170721	07/21/17 09:15	07/21/17 21:30	07/21/17 23:44	0.62	2.00	07/22/17 00:09	0.62	2.00	
27EW-12_170721	07/21/17 12:56	07/21/17 21:30	07/21/17 23:44	0.45	2.00	07/21/17 23:49	0.45	2.00	
27MW13_170721	07/21/17 13:10	07/21/17 21:30	07/21/17 23:44	0.44	2.00	07/21/17 23:49	0.44	2.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument KONE-1

Raw Data - Analytical Runs

Laboratory
Analyzer User

24.07.2017 07:19

Test: NO2

Sample Id	Result	Dil. 1 +	Response		Errors
CCV-NO2	0.50224	0.0	0.267		
CCB-NO2	0.00264	0.0	0.005		
B1N-BS1	0.50128	0.0	0.266		
B1N-BLK1	0.00355	0.0	0.005		
1719985-01	0.06958	0.0	0.040		
1719985-03	0.35692	0.0	0.190		
1719985-07	0.00820	0.0	0.008		
1719985-09	0.00216	0.0	0.004		
1719985-10	0.00570	0.0	0.006		
1719985-11	0.00359	0.0	0.005		
CCV-NO2	0.50212	0.0	0.266		
CCB-NO2	0.00203	0.0	0.004		
CCV-NO2	0.49949	0.0	0.265		
CCB-NO2	0.02775	0.0	0.018		Rule 1 violated
1719985-01	0.06879	0.0	0.039		
1719985-01	0.06956	0.0	0.040		
1719985-03	0.00429	0.0	0.006		
1719985-03	0.00523	0.0	0.006		
1719985-07	0.00959	0.0	0.008	R	
B1N-DUP1	0.00435	0.0	0.006	R	
B1N-MS1	0.00833	0.0	0.008	R	
B1N-MSD1	0.50491	0.0	0.268	R	
CCV-NO2	0.49834	0.0	0.264		
CCB-NO2	0.00235	0.0	0.004		
1719985-07	0.00485	0.0	0.006	R	
B1N-DUP1	0.00155	0.0	0.004	R	
B1N-MS1	0.00671	0.0	0.007	R	
B1N-MSD1	0.50806	0.0	0.270	R	
CCV-NO2	0.50182	0.0	0.266		
CCB-NO2	0.00222	0.0	0.004		
1719985-07	0.00621	0.0	0.007		
B1N-DUP1	0.00199	0.0	0.004		
B1N-MS1	0.00667	0.0	0.007		
B1N-MSD1	0.50651	0.0	0.269		
CCV-NO2	0.51443	0.0	0.273		
CCB-NO2	0.00128	0.0	0.004		
1719985-11	0.00036	0.0	0.003		
B1N-DUP1	0.00209	0.0	0.004		
CCV-NO2	0.49901	0.0	0.265		
CCB-NO2	0.00218	0.0	0.004		
CCV-NO2	0.50114	0.0	0.266		
CCB-NO2	0.00215	0.0	0.004		
1719985-11	0.00107	0.0	0.004		
B1N-DUP1	0.00331	0.0	0.005		
CCV-NO2	0.50546	0.0	0.268		
CCB-NO2	0.00213	0.0	0.004		
CCV-NO2	0.50271	0.0	0.267		
CCB-NO2	0.00190	0.0	0.004		
B1N-MS1	0.03497	0.0	0.022		
B1N-MSD1	0.50653	0.0	0.269		
CCV-NO2	0.50329	0.0	0.267		
CCB-NO2	0.00139	0.0	0.004		
B1N-MS1	0.00679	0.0	0.007		
B1N-MSD1	0.50688	0.0	0.269		
CCV-NO2	0.50175	0.0	0.266		
CCB-NO2	0.00193	0.0	0.004		
CCV-NO2	0.50407	0.0	0.267		
CCB-NO2	0.00333	0.0	0.005		

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Test: NO2

Sample Id	Result	Dil. 1 +	Response	Errors
B1N-MS1	0.00839	0.0	0.008	
B1N-MSD1	0.50508	0.0	0.268	
CCV-NO2	0.50307	0.0	0.267	
CCB-NO2	0.01382	0.0	0.011	Rule 1 violated
CCV-NO2	0.50626	0.0	0.269	
CCB-NO2	0.00395	0.0	0.005	
B1N-MS1	0.50101	0.0	0.266	
B1N-MSD1	0.51275	0.0	0.272	
CCV-NO2	0.50325	0.0	0.267	
CCB-NO2	0.00380	0.0	0.005	
CCV-NO2	0.50741	0.0	0.269	
CCB-NO2	0.00596	0.0	0.006	
B2N-BS1	0.50226	0.0	0.267	
B2N-BLK1	0.00784	0.0	0.007	
1719924-01	0.00814	0.0	0.008	
B2N-DUP1	0.00954	0.0	0.008	
B2N-MS1	0.50946	0.0	0.270	
B2N-MSD1	0.51059	0.0	0.271	
1719984-01	0.01134	0.0	0.009	
1719984-02	0.03111	0.0	0.020	
1719986-01	0.01458	0.0	0.011	
1719987-01	0.00750	0.0	0.007	
CCV-NO2	0.50818	0.0	0.270	
CCB-NO2	0.00666	0.0	0.007	
1719987-02	0.00734	0.0	0.007	
B3N-BS1	0.50189	0.0	0.266	
B3N-BLK1	0.00795	0.0	0.007	
1719993-02	0.13631	0.0	0.075	
B3N-DUP1	0.13591	0.0	0.075	
B3N-MS1	0.63175	0.0	0.334	
B3N-MSD1	0.63388	0.0	0.336	
1719992-01	1.35172	0.0	0.712	R Dil. limit high
1719992-02	2.04174	0.0	1.073	R Dil. limit high
1719992-03	2.13234	0.0	1.121	R Dil. limit high
CCV-NO2	0.51128	0.0	0.271	
CCB-NO2	0.00595	0.0	0.006	
1719992-01	1.32540	4.0	0.142	R
1719992-02	2.00571	4.0	0.214	R
1719992-03	2.11267	4.0	0.225	R
CCV-NO2	0.51247	0.0	0.272	
CCB-NO2	0.00553	0.0	0.006	
CCV-NO2	0.51030	0.0	0.271	
CCB-NO2	0.00500	0.0	0.006	
1719923-01	0.00518	0.0	0.006	
1719923-02	0.00473	0.0	0.006	
B4N-BS1	0.50637	0.0	0.269	
B4N-BLK1	0.00555	0.0	0.006	
1720018-07	0.00609	0.0	0.006	
B4N-DUP1	0.00631	0.0	0.007	
B4N-MS1	0.50679	0.0	0.269	
B4N-MSD1	0.50808	0.0	0.270	
1720018-01	0.00305	0.0	0.005	
1720018-02	0.00549	0.0	0.006	
CCV-NO2	0.51370	0.0	0.273	
CCB-NO2	0.00484	0.0	0.006	
1720018-04	-0.00418	0.0	0.001	
1720018-05	0.00607	0.0	0.006	
1720018-06	0.00752	0.0	0.007	

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Test: NO2

Sample Id	Result	Dil. 1 +	Response	Errors
1720018-08	-0.00039	0.0	0.003	
1720018-09	0.00219	0.0	0.004	
1720018-10	-0.01548	0.0	-0.005	
1720018-11	0.00463	0.0	0.006	
B5N-BS1	0.51145	0.0	0.271	
B5N-BLK1	0.00500	0.0	0.006	
1720019-01	0.00866	0.0	0.008	
CCV-NO2	0.50901	0.0	0.270	
CCB-NO2	0.00482	0.0	0.006	
B5N-DUP1	0.00785	0.0	0.007	
B5N-MS1	0.50710	0.0	0.269	
B5N-MSD1	0.50684	0.0	0.269	
1720019-02	0.00546	0.0	0.006	
1720019-10	0.03643	0.0	0.022	
1720019-12	0.00816	0.0	0.008	
1720019-13	0.00530	0.0	0.006	
1720019-14	0.00513	0.0	0.006	
1720019-15	0.00451	0.0	0.006	
1720019-16	0.00787	0.0	0.007	
CCV-NO2	0.50809	0.0	0.270	
CCB-NO2	0.00479	0.0	0.006	
B6N-BS1	0.51531	0.0	0.273	
B6N-BLK1	0.00505	0.0	0.006	
1720021-01	0.00889	0.0	0.008	
B6N-DUP1	0.00894	0.0	0.008	
B6N-MS1	0.51404	0.0	0.273	
B6N-MSD1	0.51127	0.0	0.271	
1720021-02	0.00622	0.0	0.007	
1720021-04	0.03552	0.0	0.022	
1720021-05	0.00580	0.0	0.006	
1720021-06	0.00628	0.0	0.007	
CCV-NO2	0.50567	0.0	0.268	
CCB-NO2	0.00422	0.0	0.005	
1720021-07	0.39596	0.0	0.211	
1720021-08	0.00473	0.0	0.006	
1720021-09	0.00723	0.0	0.007	
CCV-NO2	0.50941	0.0	0.270	
CCB-NO2	0.00450	0.0	0.006	
1720018-04	-0.02617	0.0	-0.010	
1720018-04	-0.02454	0.0	-0.010	
1720018-10	-0.05305	0.0	-0.025	
1720018-10	-0.05048	0.0	-0.023	
1720021-07	0.00422	0.0	0.005	
1720021-07	0.00454	0.0	0.006	
CCV-NO2	0.50897	0.0	0.270	
CCB-NO2	0.00469	0.0	0.006	
1720018-04	0.01271	0.0	0.010	
1720018-04	0.00925	0.0	0.008	
CCV-NO2	0.51669	0.0	0.274	
CCB-NO2	0.00409	0.0	0.005	
1720018-10	0.00431	0.0	0.006	
1720018-10	0.00411	0.0	0.005	
CCV-NO2	0.50752	0.0	0.269	
CCB-NO2	0.00425	0.0	0.005	
CCB-NO2	-	0.0	-	Aut. rejected, Batch inco
CCV-NO2	-	0.0	-	Aut. rejected, Batch inco
CCV-NO2	0.49707	0.0	0.264	
CCB-NO2	0.00439	0.0	0.006	

Laboratory
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Test: NO2

Sample Id	Result	Dil. 1 +	Response	Errors
1720062-01	0.00496	0.0	0.006	
1720062-02	0.00485	0.0	0.006	
1720064-01	0.02117	0.0	0.014	
1720066-01	0.00438	0.0	0.006	
1720068-01	0.00451	0.0	0.006	
1720070-01	0.00812	0.0	0.008	
CCV-NO2	0.49306	0.0	0.262	
CCB-NO2	0.00472	0.0	0.006	
CCV-NO2	0.51449	0.0	0.273	
CCB-NO2	0.00873	0.0	0.008	
B7N-BS1	0.49754	0.0	0.264	
B7N-BLK1	0.00809	0.0	0.008	
1720121-01	0.00957	0.0	0.008	
B7N-DUP1	0.00959	0.0	0.008	
B7N-MS1	0.51219	0.0	0.272	
B7N-MSD1	0.50571	0.0	0.268	
1720121-03	0.01020	0.0	0.009	
1720121-06	0.00912	0.0	0.008	
1720121-07	0.01599	0.0	0.012	
1720121-08	0.00843	0.0	0.008	
CCV-NO2	0.51542	0.0	0.273	
CCB-NO2	0.00954	0.0	0.008	
1720121-09	0.01223	0.0	0.010	
1720121-10	0.00930	0.0	0.008	
1720121-11	0.01054	0.0	0.009	
1720121-12	0.01158	0.0	0.009	
1720121-13	0.01002	0.0	0.009	
1720121-14	0.01345	0.0	0.010	
1720079-01	0.05889	0.0	0.034	
1720080-01	0.01392	0.0	0.011	
CCV-NO2	0.51019	0.0	0.271	
CCB-NO2	0.00860	0.0	0.008	
CCV-NO2	0.51390	0.0	0.273	
CCB-NO2	0.00980	0.0	0.008	
B7N-BS1	0.50171	0.0	0.266	
B7N-BLK1	0.00996	0.0	0.008	
1720121-01	0.00933	0.0	0.008	
B7N-DUP1	0.00990	0.0	0.008	
B7N-MS1	0.50819	0.0	0.270	
B7N-MSD1	0.50930	0.0	0.270	
1720121-03	0.01180	0.0	0.009	
1720121-06	0.01075	0.0	0.009	
1720121-07	0.01630	0.0	0.012	
1720121-08	0.00950	0.0	0.008	
CCV-NO2	0.52178	0.0	0.277	
CCB-NO2	0.00990	0.0	0.008	
1720121-09	0.01317	0.0	0.010	
1720121-10	0.01062	0.0	0.009	
1720121-11	0.00618	0.0	0.007	
1720121-12	0.00631	0.0	0.007	
1720121-13	0.01067	0.0	0.009	
1720121-14	0.01528	0.0	0.011	
1720079-01	0.06621	0.0	0.038	
1720080-01	0.01569	0.0	0.011	
CCV-NO2	0.51918	0.0	0.275	
CCB-NO2	0.01058	0.0	0.009	Rule 1 violated
CCV-NO2	0.51934	0.0	0.275	
CCB-NO2	0.00983	0.0	0.008	

Laboratory
Analyzer User

24.07.2017 07:19

Test: NO2

Sample Id	Result	Dil. 1 +	Response	Errors
B8N-BS1	0.51274	0.0	0.272	
B8N-BLK1	0.00917	0.0	0.008	
1720110-12	0.08819	0.0	0.049	
B8N-DUP1	0.08842	0.0	0.050	
B8N-MS1	0.58199	0.0	0.308	
B8N-MSD1	0.58293	0.0	0.309	
1720110-02	0.01110	0.0	0.009	
1720110-03	0.00981	0.0	0.008	
1720110-10	0.00985	0.0	0.008	
1720110-11	0.08378	0.0	0.047	
CCV-NO2	0.51921	0.0	0.275	
CCB-NO2	0.00934	0.0	0.008	
1720122-03	0.00784	0.0	0.007	
1720122-04	0.00967	0.0	0.008	
1720122-05	0.00913	0.0	0.008	
1720122-06	0.00932	0.0	0.008	
CCV-NO2	0.52268	0.0	0.277	
CCB-NO2	0.00927	0.0	0.008	
CCV-NO2	0.52315	0.0	0.277	
CCB-NO2	0.00976	0.0	0.008	
B8N-BS1	0.50683	0.0	0.269	
B8N-BLK1	0.01022	0.0	0.009	
1720110-12	0.08885	0.0	0.050	
B8N-DUP1	0.08977	0.0	0.050	
B8N-MS1	0.58424	0.0	0.309	
B8N-MSD1	0.57967	0.0	0.307	
1720110-02	0.01135	0.0	0.009	
1720110-03	0.01011	0.0	0.009	
1720110-10	0.00945	0.0	0.008	
1720110-11	0.08353	0.0	0.047	
CCV-NO2	0.51923	0.0	0.275	
CCB-NO2	0.00943	0.0	0.008	
1720122-03	0.00920	0.0	0.008	
1720122-04	0.00681	0.0	0.007	
1720122-05	0.00833	0.0	0.008	
1720122-06	0.01048	0.0	0.009	
CCV-NO2	0.52520	0.0	0.279	
CCB-NO2	0.00950	0.0	0.008	
CCV-NO2	0.50114	0.0	0.266	
CCB-NO2	0.00795	0.0	0.007	
B9N-BS1	0.50560	0.0	0.268	
B9N-BLK1	0.00854	0.0	0.008	
1720138-01	0.00925	0.0	0.008	
B9N-DUP1	0.00953	0.0	0.008	
B9N-MS1	0.49834	0.0	0.264	
B9N-MSD1	0.49906	0.0	0.265	
CCV-NO2	0.50517	0.0	0.268	
CCB-NO2	0.00852	0.0	0.008	

N	188
Mean	0.18112
SD	0.370418
CV%	204.51

Laboratory
Analyzer User

Date : 24.07.2017
Time : 07:19

Test : NO2
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
CCV-NO2	0.50224	21.07.2017 07:19		
CCB-NO2	0.00264	21.07.2017 07:19		
B1N-BS1	0.50128	21.07.2017 07:19		
B1N-BLK1	0.00355	21.07.2017 07:19		
1719985-01	0.06958	21.07.2017 07:19		
1719985-03	0.35692	21.07.2017 07:19		
1719985-07	0.00820	21.07.2017 07:19		
1719985-09	0.00216	21.07.2017 07:19		
1719985-10	0.00570	21.07.2017 07:19		
1719985-11	0.00359	21.07.2017 07:19		
CCV-NO2	0.50212	21.07.2017 07:20		
CCB-NO2	0.00203	21.07.2017 07:20		
CCV-NO2	0.49949	21.07.2017 07:35		
CCB-NO2	0.02775	21.07.2017 07:35		
1719985-01	0.06879	21.07.2017 07:35		
1719985-01	0.06956	21.07.2017 07:35		
1719985-03	0.00429	21.07.2017 07:35		
1719985-03	0.00523	21.07.2017 07:35		
1719985-07	_____	-	R	
B1N-DUP1	_____	-	R	
B1N-MS1	_____	-	R	
B1N-MSD1	_____	-	R	
CCV-NO2	0.49834	21.07.2017 07:37		
CCB-NO2	0.00235	21.07.2017 07:37		
1719985-07	0.00485	21.07.2017 07:45	R	
B1N-DUP1	0.00155	21.07.2017 07:45	R	
B1N-MS1	0.00671	21.07.2017 07:45	R	
B1N-MSD1	0.50806	21.07.2017 07:45	R	
CCV-NO2	0.50182	21.07.2017 07:46		
CCB-NO2	0.00222	21.07.2017 07:46		
1719985-07	0.00621	21.07.2017 07:55		
B1N-DUP1	0.00199	21.07.2017 07:55		
B1N-MS1	0.00667	21.07.2017 07:55		
B1N-MSD1	0.50651	21.07.2017 07:55		
CCV-NO2	0.51443	21.07.2017 07:57		
CCB-NO2	0.00128	21.07.2017 07:57		
1719985-11	0.00036	21.07.2017 08:04		
B1N-DUP1	0.00209	21.07.2017 08:04		
CCV-NO2	0.49901	21.07.2017 08:05		
CCB-NO2	0.00218	21.07.2017 08:05		
CCV-NO2	0.50114	21.07.2017 08:19		
CCB-NO2	0.00215	21.07.2017 08:19		
1719985-11	0.00107	21.07.2017 08:19		
B1N-DUP1	0.00331	21.07.2017 08:19		
CCV-NO2	0.50546	21.07.2017 08:21		
CCB-NO2	0.00213	21.07.2017 08:21		
CCV-NO2	0.50271	21.07.2017 08:32		
CCB-NO2	0.00190	21.07.2017 08:32		
B1N-MS1	0.03497	21.07.2017 08:32		
B1N-MSD1	0.50653	21.07.2017 08:32		
CCV-NO2	0.50329	21.07.2017 08:34		
CCB-NO2	0.00139	21.07.2017 08:34		
B1N-MS1	0.00679	21.07.2017 08:42		
B1N-MSD1	0.50688	21.07.2017 08:42		
CCV-NO2	0.50175	21.07.2017 08:44		
CCB-NO2	0.00193	21.07.2017 08:44		

Laboratory
Analyzer User

Date : 24.07.2017
Time : 07:19

Test : NO2
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
CCV-NO2	0.50407	21.07.2017 08:55		
CCB-NO2	0.00333	21.07.2017 08:55		
B1N-MS1	0.00839	21.07.2017 08:55		
B1N-MSD1	0.50508	21.07.2017 08:55		
CCV-NO2	0.50307	21.07.2017 08:57		
CCB-NO2	0.01382	21.07.2017 08:57		
CCV-NO2	0.50626	21.07.2017 09:09		
CCB-NO2	0.00395	21.07.2017 09:09		
B1N-MS1	0.50101	21.07.2017 09:09		
B1N-MSD1	0.51275	21.07.2017 09:09		
CCV-NO2	0.50325	21.07.2017 09:11		
CCB-NO2	0.00380	21.07.2017 09:11		
CCV-NO2	0.50741	21.07.2017 09:29		
CCB-NO2	0.00596	21.07.2017 09:29		
B2N-BS1	0.50226	21.07.2017 09:29		
B2N-BLK1	0.00784	21.07.2017 09:29		
1719924-01	0.00814	21.07.2017 09:29		
B2N-DUP1	0.00954	21.07.2017 09:29		
B2N-MS1	0.50946	21.07.2017 09:29		
B2N-MSD1	0.51059	21.07.2017 09:29		
1719984-01	0.01134	21.07.2017 09:29		
1719984-02	0.03111	21.07.2017 09:29		
1719986-01	0.01458	21.07.2017 09:29		
1719987-01	0.00750	21.07.2017 09:29		
CCV-NO2	0.50818	21.07.2017 09:35		
CCB-NO2	0.00666	21.07.2017 09:35		
1719987-02	0.00734	21.07.2017 09:35		
B3N-BS1	0.50189	21.07.2017 09:35		
B3N-BLK1	0.00795	21.07.2017 09:35		
1719993-02	0.13631	21.07.2017 09:35		
B3N-DUP1	0.13591	21.07.2017 09:35		
B3N-MS1	0.63175	21.07.2017 09:35		
B3N-MSD1	0.63388	21.07.2017 09:35		
1719992-01	_____	-	R	
1719992-02	_____	-	R	
1719992-03	_____	-	R	
CCV-NO2	0.51128	21.07.2017 09:36		
CCB-NO2	0.00595	21.07.2017 09:36		
1719992-01	1.32540	21.07.2017 09:43	R	1+4.0
1719992-02	2.00571	21.07.2017 09:43	R	1+4.0
1719992-03	2.11267	21.07.2017 09:43	R	1+4.0
CCV-NO2	0.51247	21.07.2017 09:45		
CCB-NO2	0.00553	21.07.2017 09:45		
CCV-NO2	0.51030	21.07.2017 11:32		
CCB-NO2	0.00500	21.07.2017 11:32		
1719923-01	0.00518	21.07.2017 11:32		
1719923-02	0.00473	21.07.2017 11:32		
B4N-BS1	0.50637	21.07.2017 11:32		
B4N-BLK1	0.00555	21.07.2017 11:32		
1720018-07	0.00609	21.07.2017 11:32		
B4N-DUP1	0.00631	21.07.2017 11:32		
B4N-MS1	0.50679	21.07.2017 11:32		
B4N-MSD1	0.50808	21.07.2017 11:32		
1720018-01	0.00305	21.07.2017 11:32		
1720018-02	0.00549	21.07.2017 11:32		
CCV-NO2	0.51370	21.07.2017 11:37		

Laboratory
Analyzer User

Date : 24.07.2017
Time : 07:19

Test : NO2
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
CCB-NO2	0.00484	21.07.2017 11:37		
1720018-04	-0.00418	21.07.2017 11:37		
1720018-05	0.00607	21.07.2017 11:37		
1720018-06	0.00752	21.07.2017 11:37		
1720018-08	-0.00039	21.07.2017 11:37		
1720018-09	0.00219	21.07.2017 11:37		
1720018-10	-0.01548	21.07.2017 11:37		
1720018-11	0.00463	21.07.2017 11:37		
B5N-BS1	0.51145	21.07.2017 11:37		
B5N-BLK1	0.00500	21.07.2017 11:37		
1720019-01	0.00866	21.07.2017 11:37		
CCV-NO2	0.50901	21.07.2017 11:43		
CCB-NO2	0.00482	21.07.2017 11:43		
B5N-DUP1	0.00785	21.07.2017 11:43		
B5N-MS1	0.50710	21.07.2017 11:43		
B5N-MSD1	0.50684	21.07.2017 11:43		
1720019-02	0.00546	21.07.2017 11:43		
1720019-10	0.03643	21.07.2017 11:43		
1720019-12	0.00816	21.07.2017 11:43		
1720019-13	0.00530	21.07.2017 11:43		
1720019-14	0.00513	21.07.2017 11:43		
1720019-15	0.00451	21.07.2017 11:43		
1720019-16	0.00787	21.07.2017 11:43		
CCV-NO2	0.50809	21.07.2017 11:48		
CCB-NO2	0.00479	21.07.2017 11:48		
B6N-BS1	0.51531	21.07.2017 11:48		
B6N-BLK1	0.00505	21.07.2017 11:49		
1720021-01	0.00889	21.07.2017 11:49		
B6N-DUP1	0.00894	21.07.2017 11:49		
B6N-MS1	0.51404	21.07.2017 11:49		
B6N-MSD1	0.51127	21.07.2017 11:49		
1720021-02	0.00622	21.07.2017 11:49		
1720021-04	0.03552	21.07.2017 11:49		
1720021-05	0.00580	21.07.2017 11:49		
1720021-06	0.00628	21.07.2017 11:49		
CCV-NO2	0.50567	21.07.2017 11:52		
CCB-NO2	0.00422	21.07.2017 11:52		
1720021-07	0.39596	21.07.2017 11:52		
1720021-08	0.00473	21.07.2017 11:52		
1720021-09	0.00723	21.07.2017 11:52		
CCV-NO2	0.50941	21.07.2017 11:55		
CCB-NO2	0.00450	21.07.2017 11:55		
1720018-04	-0.02617	21.07.2017 12:02		
1720018-04	-0.02454	21.07.2017 12:02		
1720018-10	-0.05305	21.07.2017 12:04		
1720018-10	-0.05048	21.07.2017 12:04		
1720021-07	0.00422	21.07.2017 12:04		
1720021-07	0.00454	21.07.2017 12:04		
CCV-NO2	0.50897	21.07.2017 12:06		
CCB-NO2	0.00469	21.07.2017 12:06		
1720018-04	0.01271	21.07.2017 12:12		
1720018-04	0.00925	21.07.2017 12:12		
CCV-NO2	0.51669	21.07.2017 12:14		
CCB-NO2	0.00409	21.07.2017 12:15		
1720018-10	0.00431	21.07.2017 12:16		
1720018-10	0.00411	21.07.2017 12:16		

Laboratory
Analyzer User

Date : 24.07.2017
Time : 07:19

Test : NO2
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
CCV-NO2	0.50752	21.07.2017 12:18		
CCB-NO2	0.00425	21.07.2017 12:18		
CCB-NO2	_____	-		
CCV-NO2	_____	-		
CCV-NO2	0.49707	21.07.2017 16:02		
CCB-NO2	0.00439	21.07.2017 16:02		
1720062-01	0.00496	21.07.2017 16:02		
1720062-02	0.00485	21.07.2017 16:02		
1720064-01	0.02117	21.07.2017 16:02		
1720066-01	0.00438	21.07.2017 16:02		
1720068-01	0.00451	21.07.2017 16:02		
1720070-01	0.00812	21.07.2017 16:02		
CCV-NO2	0.49306	21.07.2017 16:03		
CCB-NO2	0.00472	21.07.2017 16:03		
CCV-NO2	0.51449	21.07.2017 23:44		
CCB-NO2	0.00873	21.07.2017 23:44		
B7N-BS1	0.49754	21.07.2017 23:44		
B7N-BLK1	0.00809	21.07.2017 23:44		
1720121-01	0.00957	21.07.2017 23:44		
B7N-DUP1	0.00959	21.07.2017 23:44		
B7N-MS1	0.51219	21.07.2017 23:44		
B7N-MSD1	0.50571	21.07.2017 23:44		
1720121-03	0.01020	21.07.2017 23:44		
1720121-06	0.00912	21.07.2017 23:44		
1720121-07	0.01599	21.07.2017 23:44		
1720121-08	0.00843	21.07.2017 23:44		
CCV-NO2	0.51542	21.07.2017 23:49		
CCB-NO2	0.00954	21.07.2017 23:49		
1720121-09	0.01223	21.07.2017 23:49		
1720121-10	0.00930	21.07.2017 23:49		
1720121-11	0.01054	21.07.2017 23:49		
1720121-12	0.01158	21.07.2017 23:49		
1720121-13	0.01002	21.07.2017 23:49		
1720121-14	0.01345	21.07.2017 23:49		
1720079-01	0.05889	21.07.2017 23:49		
1720080-01	0.01392	21.07.2017 23:49		
CCV-NO2	0.51019	21.07.2017 23:50		
CCB-NO2	0.00860	21.07.2017 23:50		
CCV-NO2	0.51390	22.07.2017 00:04		
CCB-NO2	0.00980	22.07.2017 00:04		
B7N-BS1	0.50171	22.07.2017 00:04		
B7N-BLK1	0.00996	22.07.2017 00:04		
1720121-01	0.00933	22.07.2017 00:04		
B7N-DUP1	0.00990	22.07.2017 00:04		
B7N-MS1	0.50819	22.07.2017 00:04		
B7N-MSD1	0.50930	22.07.2017 00:04		
1720121-03	0.01180	22.07.2017 00:04		
1720121-06	0.01075	22.07.2017 00:04		
1720121-07	0.01630	22.07.2017 00:04		
1720121-08	0.00950	22.07.2017 00:04		
CCV-NO2	0.52178	22.07.2017 00:09		
CCB-NO2	0.00990	22.07.2017 00:09		
1720121-09	0.01317	22.07.2017 00:09		
1720121-10	0.01062	22.07.2017 00:09		
1720121-11	0.00618	22.07.2017 00:09		
1720121-12	0.00631	22.07.2017 00:09		

Laboratory
Analyzer User

Date : 24.07.2017
Time : 07:19

Test : NO2
Unit : mg/l

Sample	Result	Date and Time	Note	Dilut
1720121-13	0.01067	22.07.2017 00:09		
1720121-14	0.01528	22.07.2017 00:09		
1720079-01	0.06621	22.07.2017 00:09		
1720080-01	0.01569	22.07.2017 00:09		
CCV-NO2	0.51918	22.07.2017 00:10		
CCB-NO2	0.01058	22.07.2017 00:10		
CCV-NO2	0.51934	22.07.2017 00:30		
CCB-NO2	0.00983	22.07.2017 00:30		
B8N-BS1	0.51274	22.07.2017 00:30		
B8N-BLK1	0.00917	22.07.2017 00:30		
1720110-12	0.08819	22.07.2017 00:30		
B8N-DUP1	0.08842	22.07.2017 00:30		
B8N-MS1	0.58199	22.07.2017 00:30		
B8N-MSD1	0.58293	22.07.2017 00:30		
1720110-02	0.01110	22.07.2017 00:30		
1720110-03	0.00981	22.07.2017 00:30		
1720110-10	0.00985	22.07.2017 00:30		
1720110-11	0.08378	22.07.2017 00:30		
CCV-NO2	0.51921	22.07.2017 00:34		
CCB-NO2	0.00934	22.07.2017 00:34		
1720122-03	0.00784	22.07.2017 00:34		
1720122-04	0.00967	22.07.2017 00:34		
1720122-05	0.00913	22.07.2017 00:34		
1720122-06	0.00932	22.07.2017 00:34		
CCV-NO2	0.52268	22.07.2017 00:37		
CCB-NO2	0.00927	22.07.2017 00:37		
CCV-NO2	0.52315	22.07.2017 00:56		
CCB-NO2	0.00976	22.07.2017 00:56		
B8N-BS1	0.50683	22.07.2017 00:56		
B8N-BLK1	0.01022	22.07.2017 00:56		
1720110-12	0.08885	22.07.2017 00:56		
B8N-DUP1	0.08977	22.07.2017 00:56		
B8N-MS1	0.58424	22.07.2017 00:56		
B8N-MSD1	0.57967	22.07.2017 00:56		
1720110-02	0.01135	22.07.2017 00:56		
1720110-03	0.01011	22.07.2017 00:56		
1720110-10	0.00945	22.07.2017 00:56		
1720110-11	0.08353	22.07.2017 00:56		
CCV-NO2	0.51923	22.07.2017 00:59		
CCB-NO2	0.00943	22.07.2017 00:59		
1720122-03	0.00920	22.07.2017 00:59		
1720122-04	0.00681	22.07.2017 00:59		
1720122-05	0.00833	22.07.2017 00:59		
1720122-06	0.01048	22.07.2017 00:59		
CCV-NO2	0.52520	22.07.2017 01:02		
CCB-NO2	0.00950	22.07.2017 01:02		
CCV-NO2	0.50114	22.07.2017 12:46		
CCB-NO2	0.00795	22.07.2017 12:46		
B9N-BS1	0.50560	22.07.2017 12:46		
B9N-BLK1	0.00854	22.07.2017 12:47		
1720138-01	0.00925	22.07.2017 12:47		
B9N-DUP1	0.00953	22.07.2017 12:47		
B9N-MS1	0.49834	22.07.2017 12:47		
B9N-MSD1	0.49906	22.07.2017 12:47		
CCV-NO2	0.50517	22.07.2017 12:48		
CCB-NO2	0.00852	22.07.2017 12:48		

Raw Data - Calibration Summary

Calibration results Aquakem 7.2AQ1 Page: 1

Laboratory
Analyzer User

11.05.2017 10:15

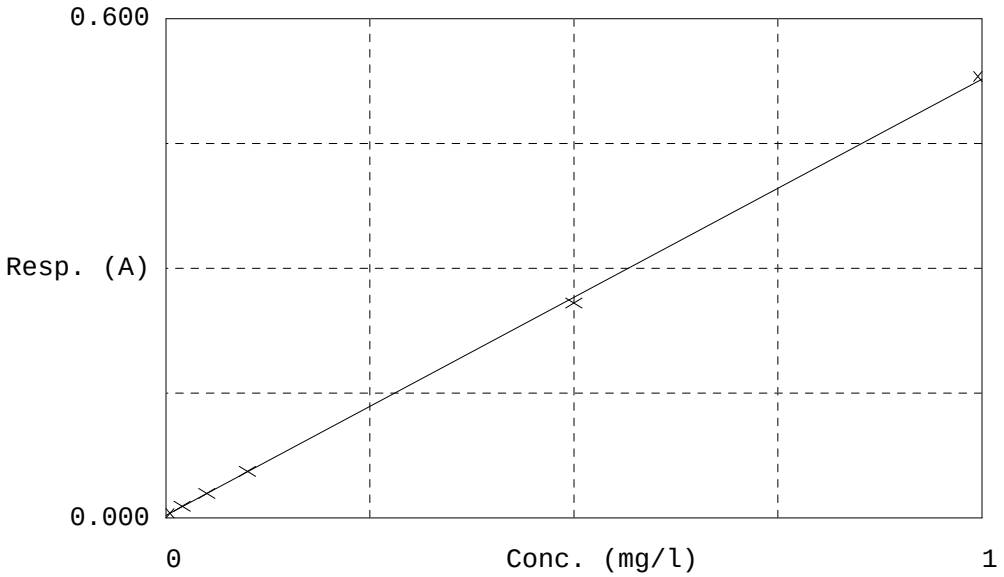
Test NO2

Accepted 11.05.2017 10:15

Factor 1.90791
Bias 0.00327

Coeff. of det. 0.999701

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	NO2-0	0.00553	0.00431	0.00000	
2	NO2-0.02	0.01421	0.02088	0.02000	
3	NO2-0.05	0.02971	0.05045	0.05000	
4	NO2-0.10	0.05629	0.10116	0.10000	
5	NO2-0.50	0.25838	0.48673	0.50000	
6	NO2-1.00	0.53080	1.00648	1.00000	
7	ICB-NO2(control	0.00546	0.00419	0.00000	
8	ICV-NO2(control	0.27245	0.51357	0.50000	

NO2 Laboratory
Analyzer User
Date : 11.05.2017
Time : 10:15

Last change date 04.02.2016 12:17
Tick length (sec) 7.0

Full name	Nitrite as N				
Online Name		Test In Use	YES		
Test type	Photometric		LOW	HIGH	
		Test limit	*	5.00000 mg/l	
Result unit	mg/l	Initial absorbance	-0.050	*	A
Number of Decim.	5	Dilution limit	*	1.000000 mg/l	
		Secondary dil 1+	0.0	4.0	
		Critical limit	*	*	mg/l
		Reflex test limit	*	*	mg/l
		Reflex test			

Acceptance	Manual	Reference class	LOW	HIGH	In Use
Dilution 1+	0.0				
Sample type	Water	Correction factor	1.00		
	Raw water	Correction bias	0.00	mg/l	
	Sewage				
Calibration type	Linear				
Curve direction	Ascending				
Repeat time (d)	0	Abs error (mA)	*		
Points/cal.	Single	Rel error (%)	*		
Acceptance	Manual				
Response limit (mA)	MIN	MAX			
	*	*			
Bias correction in use	NO				
Cd reduction	NO				
Type of Calibrators	Separate				
Calibrator	Conc.	Dil. ratio			
NO2-0	0.000	1+0.0			
NO2-0.02	0.020	1+0.0			
NO2-0.05	0.050	1+0.0			
NO2-0.10	0.100	1+0.0			
NO2-0.50	0.500	1+0.0			
NO2-1.00	1.000	1+0.0			
Manual QC in Use	YES	Routine QC in Use	YES		
Acceptance	Manual	Interval Requests	10		
		Additional condition	NO		

Control	Mean	SD	Control	Mean	SD
ICB-NO2	0.00	0.01	CCB-NO2	0.00	0.01
ICV-NO2	0.50	0.05	CCV-NO2	0.50	0.05

Rules in Use	1:1.0*SD	Rules in Use	1:1.0*SD
Blank	YES		
		Normal cuvette	
Sample		Volume (ul)	32
Disp. with	Extra	Add. Volume (ul)	30
Dilution with	Water	Wash reagent	None

NO2 Laboratory
Analyzer User
Date : 11.05.2017
Time : 10:15

Reagent	NO2 Buffer	Volume (ul)	120
Disp. with	Extra	Add. Volume (ul)	30
Wash reagent	None		
Syringe speed	Normal		
Measurement	End point	Blank	
Resp. Min(A)	*	Resp. Max(A)	*
Reagent	NO2 color	Volume (ul)	32
Disp. with	Extra	Add. Volume (ul)	30
Wash reagent	None		
Syringe speed	Normal		
Incubation		Time (sec)	360
Measurement	End point		
Wavelength (nm)	540 nm	Side wavel. (nm)	None
Meas. type	Fixed timing		

Raw Data - Batch Information

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G1940

BC Laboratories

Printed: 8/22/2017 1:10:14PM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720121-01 S	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
1720121-03 G	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
1720121-06 G	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
1720121-07 G	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
1720121-08 G	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
1720121-09 G	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
1720121-10 G	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
1720121-11 G	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
1720121-12 G	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
1720121-13 G	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
B[G1940-BLK1	QC	7/21/2017 11:44PM	JSW	20	20					
B[G1940-BS1	QC	7/21/2017 11:44PM	JSW	20	20	7F23021		1000		
B[G1940-DUP1	QC	7/21/2017 11:44PM	JSW	20	20		1720121-01			
B[G1940-MS1	QC	7/21/2017 11:44PM	JSW	19	20	7F23021	1720121-01	1000		
B[G1940-MSD1	QC	7/21/2017 11:44PM	JSW	19	20	7F23021	1720121-01	1000		

Spike Mixes	Description	Solvent	Prepared	Expires
7F23021	PO4/NO2 SPIKE	DI WATER	6/23/2017 by Roxanne Cantorna	12/23/2017

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G1941

BC Laboratories

Printed: 8/22/2017 1:10:14PM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720110-02 D	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
1720110-03 D	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
1720110-10 D	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
1720110-11 D	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
1720110-12 J	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
1720121-14 G	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
1720122-03 J	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
1720122-04 J	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
1720122-05 G	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
1720122-06 G	i353.2wm NO2 as N	7/21/2017 11:44PM	JSW	20	20					
B[G1941-BLK1	QC	7/21/2017 11:44PM	JSW	20	20					
B[G1941-BS1	QC	7/21/2017 11:44PM	JSW	20	20	7F23021		1000		
B[G1941-DUP1	QC	7/21/2017 11:44PM	JSW	20	20		1720110-12			
B[G1941-MS1	QC	7/21/2017 11:44PM	JSW	19	20	7F23021	1720110-12	1000		
B[G1941-MSD1	QC	7/21/2017 11:44PM	JSW	19	20	7F23021	1720110-12	1000		

Spike Mixes	Description	Solvent	Prepared	Expires
7F23021	PO4/NO2 SPIKE	DI WATER	6/23/2017 by Roxanne Cantorna	12/23/2017

Raw Data - Sequence Information

ANALYSIS SEQUENCE

1713148

Instrument: KONE-1
Calibration ID:
Sequence Date: 07/21/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713148-CCV1	QC		1		7E02060		
1713148-CCB1	QC		2				
B[G1940-BS1	QC		3				
B[G1940-BLK1	QC		4				
1720121-01	i353.2wm NO2 as N	S	5				
B[G1940-DUP1	QC		6				
B[G1940-MS1	QC		7				
B[G1940-MSD1	QC		8				
1720121-03	i353.2wm NO2 as N	G	9				
1720121-06	i353.2wm NO2 as N	G	10				
1720121-07	i353.2wm NO2 as N	G	11				
1720121-08	i353.2wm NO2 as N	G	12				
1713148-CCV2	QC		13		7E02060		
1713148-CCB2	QC		14				
1720121-09	i353.2wm NO2 as N	G	15				
1720121-10	i353.2wm NO2 as N	G	16				
1720121-13	i353.2wm NO2 as N	G	17				
1720121-14	i353.2wm NO2 as N	G	18				
1720079-01	i353.2wb NO2 as NO2	P	19				
1720080-01	i353.2wb NO2 as NO2	P	20				
1713148-CCV3	QC		21		7E02060		
1713148-CCB3	QC		22				
1713148-CCV4	QC		23		7E02060		
1713148-CCB4	QC		24				
1713148-CCV5	QC		25		7E02060		
1713148-CCB5	QC		26				
1720121-11	i353.2wm NO2 as N	G	27				
1720121-12	i353.2wm NO2 as N	G	28				
1713148-CCV6	QC		29		7E02060		
1713148-CCB6	QC		30				
1713148-CCV7	QC		31		7E02060		
1713148-CCB7	QC		32				
B[G1941-BS1	QC		33				
B[G1941-BLK1	QC		34				
1720110-12	i353.2wm NO2 as N	J	35				
B[G1941-DUP1	QC		36				
B[G1941-MS1	QC		37				
B[G1941-MSD1	QC		38				
1720110-02	i353.2wm NO2 as N	D	39				

ANALYSIS SEQUENCE

1713148

Instrument: KONE-1
Calibration ID:
Sequence Date: 07/21/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1720110-03	i353.2wm NO2 as N	D	40				
1720110-11	i353.2wm NO2 as N	D	41				
1713148-CCV8	QC		42		7E02060		
1713148-CCB8	QC		43				
1720122-03	i353.2wm NO2 as N	J	44				
1720122-06	i353.2wm NO2 as N	G	45				
1713148-CCV9	QC		46		7E02060		
1713148-CCB9	QC		47				
1713148-CCVA	QC		48		7E02060		
1713148-CCBA	QC		49				
1720110-10	i353.2wm NO2 as N	D	50				
1713148-CCVB	QC		51		7E02060		
1713148-CCBB	QC		52				
1720122-04	i353.2wm NO2 as N	J	53				
1720122-05	i353.2wm NO2 as N	G	54				
1713148-CCVC	QC		55		7E02060		
1713148-CCBC	QC		56				
1713148-CCVD	QC		57		7E02060		
1713148-CCBD	QC		58				
B[G1942-BS1	QC		59				
B[G1942-BLK1	QC		60				
1720138-01	i353.2wb NO2 as NO2	A	61				BatchQC
1720138-01	i353.2wm NO2 as N	A	61				
B[G1942-DUP1	QC		62				
B[G1942-MS1	QC		63				
B[G1942-MSD1	QC		64				
1713148-CCVE	QC		65		7E02060		
1713148-CCBE	QC		66				

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-20121**
Class: **WET**
Method: **EPA-415.1**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSES DATA PACKAGE COVER PAGE

EPA-415.1

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
15-MW1_170721	1720121-01
15-MW3_170721	1720121-03
27MW03_170721	1720121-06
27MW04_170721	1720121-07
27MW10_170721	1720121-08
27MW11_170721	1720121-09
27MW12_170721	1720121-10
M14-15_170721	1720121-11
M14-16_170721	1720121-12
27EW-12_170721	1720121-13
27MW13_170721	1720121-14

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 08-22-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

EPA-415.1

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: TOC2

Analyte	DL	LOD	LOQ	Units
Non-Volatile Organic Carbon	0.3	0.3	1	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

15-MW1_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-01
File ID: 20170725_0817-005
Sampled: 07/21/17 08:30
Prepared: 07/24/17 07:10
Analyzed: 07/25/17 09:20
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1847
Sequence: 1713149
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	1.2	0.60	0.60	2.0	2	JD	EPA-415.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

15-MW3_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-03
File ID: 20170725_0817-010
Sampled: 07/21/17 09:40
Prepared: 07/24/17 07:10
Analyzed: 07/25/17 10:31
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1847
Sequence: 1713149
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	6.0	0.60	0.60	2.0	2	D	EPA-415.1

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

27MW03_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-06
File ID: 20170725_0817-011
Sampled: 07/21/17 09:20
Prepared: 07/24/17 07:10
Analyzed: 07/25/17 10:45
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1847
Sequence: 1713149
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	3.6	0.60	0.60	2.0	2	D	EPA-415.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

27MW04_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-07
File ID: 20170724_1106-073
Sampled: 07/21/17 11:45
Prepared: 07/24/17 07:10
Analyzed: 07/25/17 04:55
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1847
Sequence: 1713149
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	0.68	0.60	0.60	2.0	2	JD	EPA-415.1

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

27MW10_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-08
File ID: 20170725_0817-012
Sampled: 07/21/17 10:26
Prepared: 07/24/17 07:10
Analyzed: 07/25/17 11:00
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1847
Sequence: 1713149
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	2.3	0.60	0.60	2.0	2	D	EPA-415.1

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

27MW11_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-09
File ID: 20170724_1106-077
Sampled: 07/21/17 10:50
Prepared: 07/24/17 07:10
Analyzed: 07/25/17 05:53
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1847
Sequence: 1713149
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	19	3.0	3.0	10	10	D	EPA-415.1

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
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INORGANIC ANALYSIS DATA SHEET
EPA-415.1

27MW12_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-10
File ID: 20170725_0817-015
Sampled: 07/21/17 11:35
Prepared: 07/24/17 07:10
Analyzed: 07/25/17 11:43
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1847
Sequence: 1713149
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	1.5	0.60	0.60	2.0	2	JD	EPA-415.1

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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

M14-15_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-11
File ID: 20170724_1106-079
Sampled: 07/21/17 08:20
Prepared: 07/24/17 07:10
Analyzed: 07/25/17 06:22
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1847
Sequence: 1713149
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	26	1.5	1.5	5.0	5	D	EPA-415.1

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

M14-16_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-12
File ID: 20170724_1106-080
Sampled: 07/21/17 09:15
Prepared: 07/24/17 07:10
Analyzed: 07/25/17 06:37
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1847
Sequence: 1713149
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	21	1.5	1.5	5.0	5	D	EPA-415.1

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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

27EW-12_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-13
File ID: 20170725_0817-003
Sampled: 07/21/17 12:56
Prepared: 07/24/17 07:10
Analyzed: 07/25/17 08:52
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1846
Sequence: 1713149
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	8.5	0.60	0.60	2.0	2	D	EPA-415.1

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
EPA-415.1

27MW13_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-14
File ID: 20170725_0817-004
Sampled: 07/21/17 13:10
Prepared: 07/24/17 07:10
Analyzed: 07/25/17 09:06
Solids: 0.00
Preparation: General Preparation
Initial/Final: 100 ml / 100 ml
Batch: B[G1846
Sequence: 1713149
Calibration: UNASSIGNED
Instrument: TOC2

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
---	Non-Volatile Organic Carbon	3.1	0.60	0.60	2.0	2	D	EPA-415.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

EPA-415.1

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G1846
Batch Matrix: Water
Preparation: General Preparation

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
27EW-12_170721	1720121-13	20170725_0817-003	07/24/17 07:10	
27MW13_170721	1720121-14	20170725_0817-004	07/24/17 07:10	
Blank	B[G1846-BLK1	20170724_1106-044	07/24/17 07:10	
LCS	B[G1846-BS1	20170724_1106-045	07/24/17 07:10	
Duplicate	B[G1846-DUP1	20170724_1106-048	07/24/17 07:10	
Matrix Spike	B[G1846-MS1	20170724_1106-049	07/24/17 07:10	
Matrix Spike Dup	B[G1846-MSD1	20170724_1106-050	07/24/17 07:10	

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

EPA-415.1

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G1847
Batch Matrix: Water
Preparation: General Preparation

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
15-MW1_170721	1720121-01	20170725_0817-005	07/24/17 07:10	
15-MW3_170721	1720121-03	20170725_0817-010	07/24/17 07:10	
27MW03_170721	1720121-06	20170725_0817-011	07/24/17 07:10	
27MW04_170721	1720121-07	20170724_1106-073	07/24/17 07:10	
27MW10_170721	1720121-08	20170725_0817-012	07/24/17 07:10	
27MW11_170721	1720121-09	20170724_1106-077	07/24/17 07:10	
27MW12_170721	1720121-10	20170725_0817-015	07/24/17 07:10	
M14-15_170721	1720121-11	20170724_1106-079	07/24/17 07:10	
M14-16_170721	1720121-12	20170724_1106-080	07/24/17 07:10	
Blank	B[G1847-BLK1	20170724_1106-062	07/24/17 07:10	
LCS	B[G1847-BS1	20170724_1106-065	07/24/17 07:10	
15-MW1_170721	B[G1847-DUP1	20170725_0817-007	07/24/17 07:10	
15-MW1_170721	B[G1847-MS1	20170725_0817-008	07/24/17 07:10	
15-MW1_170721	B[G1847-MSD1	20170725_0817-009	07/24/17 07:10	

AMEC Environmental & Infrastructure-
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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-415.1

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G1846-BLK1	File ID:	20170724_1106-044
Prepared:	07/24/17 07:10	Preparation:	General Preparation	Initial/Final:	100 ml / 100 ml
Analyzed:	07/24/17 21:56	Instrument:	TOC2		
Batch:	B[G1846	Sequence:	1713149	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
---	Non-Volatile Organic Carbon	0.30	0.30	0.30	1.0	U

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
EPA-415.1

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G1847-BLK1	File ID:	20170724_1106-062
Prepared:	07/24/17 07:10	Preparation:	General Preparation	Initial/Final:	100 ml / 100 ml
Analyzed:	07/25/17 02:15	Instrument:	TOC2		
Batch:	B[G1847	Sequence:	1713149	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
---	Non-Volatile Organic Carbon	0.30	0.30	0.30	1.0	U

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

Duplicate

DUPLICATES

EPA-415.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[G1846
Preparation: General Preparation
Source Sample Name: Duplicate

SDG: 17-20121
Project: Alameda
Laboratory ID: B[G1846-DUP1
Lab Source ID: 1720110-12
Initial/Final: 100 ml / 100 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Non-Volatile Organic Carbon	10	10.695		10.710		0.140		EPA-415.1

* Values outside of QC limits

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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

15-MW1_170721

DUPLICATES

EPA-415.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[G1847
Preparation: General Preparation
Source Sample Name: 15-MW1_170721

SDG: 17-20121
Project: Alameda
Laboratory ID: B[G1847-DUP1
Lab Source ID: 1720121-01
Initial/Final: 100 ml / 100 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Non-Volatile Organic Carbon	10	1.1940		1.2220		2.32		EPA-415.1

* Values outside of QC limits

AMEC Environmental & Infrastructure-
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San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-415.1

Matrix Spike

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1846
Laboratory ID: B[G1846-MS1
Preparation: General Preparation
Initial/Final: 99.5 ml / 100 ml
Source Sample Number: 1720110-12

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Non-Volatile Organic Carbon	25.126	10.695	37.523	107	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Non-Volatile Organic Carbon	25.126	37.518	107	0.0134	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

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Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-415.1

15-MW1_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G1847
Laboratory ID: B[G1847-MS1
Preparation: General Preparation
Initial/Final: 99.5 ml / 100 ml
Source Sample Number: 1720121-01

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Non-Volatile Organic Carbon	10.050	1.1940	9.4231	81.9	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Non-Volatile Organic Carbon	10.050	9.4231	81.9	0.00	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-415.1

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[G1846	Laboratory ID:	B[G1846-BS1
Preparation:	General Preparation	Initial/Final:	100 ml / 100 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Non-Volatile Organic Carbon	5.0000	5.4860	110	85 - 115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
EPA-415.1

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[G1847	Laboratory ID:	B[G1847-BS1
Preparation:	General Preparation	Initial/Final:	100 ml / 100 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Non-Volatile Organic Carbon	5.0000	5.5240	110	85 - 115

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-415.1

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713149
Instrument: TOC2
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1713149-ICV1	20170724_1106-003	07/24/17 12:08
Initial Cal Blank	1713149-ICB1	20170724_1106-004	07/24/17 12:21
MRL Check	1713149-CRL1	20170724_1106-005	07/24/17 12:36
Calibration Check	1713149-CCV1	20170724_1106-015	07/24/17 14:59
Calibration Blank	1713149-CCB1	20170724_1106-016	07/24/17 15:13
Calibration Check	1713149-CCV2	20170724_1106-027	07/24/17 17:52
Calibration Blank	1713149-CCB2	20170724_1106-028	07/24/17 18:06
Calibration Check	1713149-CCV3	20170724_1106-039	07/24/17 20:44
Calibration Blank	1713149-CCB3	20170724_1106-040	07/24/17 20:58
Blank	B[G1846-BLK1	20170724_1106-044	07/24/17 21:56
LCS	B[G1846-BS1	20170724_1106-045	07/24/17 22:10
Duplicate	B[G1846-DUP1	20170724_1106-048	07/24/17 22:54
Matrix Spike	B[G1846-MS1	20170724_1106-049	07/24/17 23:08
Matrix Spike Dup	B[G1846-MSD1	20170724_1106-050	07/24/17 23:22
Calibration Check	1713149-CCV4	20170724_1106-051	07/24/17 23:37
Calibration Blank	1713149-CCB4	20170724_1106-052	07/24/17 23:51
Blank	B[G1847-BLK1	20170724_1106-062	07/25/17 02:15
Calibration Check	1713149-CCV5	20170724_1106-063	07/25/17 02:31
Calibration Blank	1713149-CCB5	20170724_1106-064	07/25/17 02:44
LCS	B[G1847-BS1	20170724_1106-065	07/25/17 03:00
27MW04_170721	1720121-07	20170724_1106-073	07/25/17 04:55
Calibration Check	1713149-CCV6	20170724_1106-075	07/25/17 05:24
Calibration Blank	1713149-CCB6	20170724_1106-076	07/25/17 05:38
27MW11_170721	1720121-09	20170724_1106-077	07/25/17 05:53
M14-15_170721	1720121-11	20170724_1106-079	07/25/17 06:22
M14-16_170721	1720121-12	20170724_1106-080	07/25/17 06:37

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-415.1

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Sequence: 1713149
Instrument: TOC2
Matrix: Water
Calibration: UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Calibration Check	1713149-CCV7	20170724_1106-084	07/25/17 07:36
Calibration Blank	1713149-CCB7	20170724_1106-085	07/25/17 07:50
Calibration Check	1713149-CCV8	20170725_0817-001	07/25/17 08:23
Calibration Blank	1713149-CCB8	20170725_0817-002	07/25/17 08:37
27EW-12_170721	1720121-13	20170725_0817-003	07/25/17 08:52
27MW13_170721	1720121-14	20170725_0817-004	07/25/17 09:06
15-MW1_170721	1720121-01	20170725_0817-005	07/25/17 09:20
15-MW1_170721	B[G1847-DUP1	20170725_0817-007	07/25/17 09:49
15-MW1_170721	B[G1847-MS1	20170725_0817-008	07/25/17 10:03
15-MW1_170721	B[G1847-MSD1	20170725_0817-009	07/25/17 10:17
15-MW3_170721	1720121-03	20170725_0817-010	07/25/17 10:31
27MW03_170721	1720121-06	20170725_0817-011	07/25/17 10:45
27MW10_170721	1720121-08	20170725_0817-012	07/25/17 11:00
Calibration Check	1713149-CCV9	20170725_0817-013	07/25/17 11:14
Calibration Blank	1713149-CCB9	20170725_0817-014	07/25/17 11:28
27MW12_170721	1720121-10	20170725_0817-015	07/25/17 11:43
Calibration Check	1713149-CCVA	20170725_0817-016	07/25/17 11:57
Calibration Blank	1713149-CCBA	20170725_0817-017	07/25/17 12:11

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BLANKS
EPA-415.1

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: TOC2
Project: Alameda
Sequence: 1713149
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1713149-ICB1	Non-Volatile Organic Carbon	0.011000	0.30		1.0	mg/L	U	EPA-415.1
1713149-CCB1	Non-Volatile Organic Carbon	0.0050000	0.30		1.0	mg/L	U	EPA-415.1
1713149-CCB2	Non-Volatile Organic Carbon	0.051000	0.30		1.0	mg/L	U	EPA-415.1
1713149-CCB3	Non-Volatile Organic Carbon	0.092000	0.30		1.0	mg/L	U	EPA-415.1
1713149-CCB4	Non-Volatile Organic Carbon	0.068000	0.30		1.0	mg/L	U	EPA-415.1
1713149-CCB5	Non-Volatile Organic Carbon	0.064000	0.30		1.0	mg/L	U	EPA-415.1
1713149-CCB6	Non-Volatile Organic Carbon	0.10600	0.30		1.0	mg/L	U	EPA-415.1
1713149-CCB7	Non-Volatile Organic Carbon	0.035000	0.30		1.0	mg/L	U	EPA-415.1
1713149-CCB8	Non-Volatile Organic Carbon	0.045000	0.30		1.0	mg/L	U	EPA-415.1
1713149-CCB9	Non-Volatile Organic Carbon	0.054000	0.30		1.0	mg/L	U	EPA-415.1
1713149-CCBA	Non-Volatile Organic Carbon	0.030000	0.30		1.0	mg/L	U	EPA-415.1

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL AND CONTINUING CALIBRATION CHECK

EPA-415.1

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: TOC2
Control Limt: +/- 10.00%

SDG: 17-20121
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1713149

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1713149-ICV1	Non-Volatile Organic Carbon	5.0000	5.3440	107	mg/L	EPA-415.1
1713149-CCV1	Non-Volatile Organic Carbon	5.0000	5.3280	107	mg/L	EPA-415.1
1713149-CCV2	Non-Volatile Organic Carbon	5.0000	5.3780	108	mg/L	EPA-415.1
1713149-CCV3	Non-Volatile Organic Carbon	5.0000	5.4430	109	mg/L	EPA-415.1
1713149-CCV4	Non-Volatile Organic Carbon	5.0000	5.3910	108	mg/L	EPA-415.1
1713149-CCV5	Non-Volatile Organic Carbon	5.0000	5.3890	108	mg/L	EPA-415.1
1713149-CCV6	Non-Volatile Organic Carbon	5.0000	5.4870	110	mg/L	EPA-415.1
1713149-CCV7	Non-Volatile Organic Carbon	5.0000	5.3370	107	mg/L	EPA-415.1
1713149-CCV8	Non-Volatile Organic Carbon	5.0000	5.4420	109	mg/L	EPA-415.1
1713149-CCV9	Non-Volatile Organic Carbon	5.0000	5.4220	108	mg/L	EPA-415.1
1713149-CCVA	Non-Volatile Organic Carbon	5.0000	5.3990	108	mg/L	EPA-415.1

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

HOLDING TIME SUMMARY
EPA-415.1

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
15-MW1_170721	07/21/17 08:30	07/21/17 21:30	07/24/17 07:10	4.00	28.00	07/25/17 09:20	4.00	28.00	
15-MW3_170721	07/21/17 09:40	07/21/17 21:30	07/24/17 07:10	4.00	28.00	07/25/17 10:31	4.00	28.00	
27MW03_170721	07/21/17 09:20	07/21/17 21:30	07/24/17 07:10	4.00	28.00	07/25/17 10:45	4.00	28.00	
27MW04_170721	07/21/17 11:45	07/21/17 21:30	07/24/17 07:10	4.00	28.00	07/25/17 04:55	4.00	28.00	
27MW10_170721	07/21/17 10:26	07/21/17 21:30	07/24/17 07:10	4.00	28.00	07/25/17 11:00	4.00	28.00	
27MW11_170721	07/21/17 10:50	07/21/17 21:30	07/24/17 07:10	4.00	28.00	07/25/17 05:53	4.00	28.00	
27MW12_170721	07/21/17 11:35	07/21/17 21:30	07/24/17 07:10	4.00	28.00	07/25/17 11:43	4.00	28.00	
M14-15_170721	07/21/17 08:20	07/21/17 21:30	07/24/17 07:10	4.00	28.00	07/25/17 06:22	4.00	28.00	
M14-16_170721	07/21/17 09:15	07/21/17 21:30	07/24/17 07:10	4.00	28.00	07/25/17 06:37	4.00	28.00	
27EW-12_170721	07/21/17 12:56	07/21/17 21:30	07/24/17 07:10	4.00	28.00	07/25/17 08:52	4.00	28.00	
27MW13_170721	07/21/17 13:10	07/21/17 21:30	07/24/17 07:10	4.00	28.00	07/25/17 09:06	4.00	28.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument TOC2

Raw Data - Analytical Runs

BC Laboratories

Sample Results

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:06 am			3,017	0.000	
2	11:14 am			4,034	0.000	
3	11:22 am			3,016	0.000	
4	11:30 am			3,431	0.000	
		Clean Up	**Avg.**	3,374	**0.000**	

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:42 am			2,597	0.000	
2	11:48 am			3,056	0.000	
		QC Blank	**Avg.**	2,827	**0.000**	< PQL

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:02 pm			103,160	5.394	
2	12:08 pm			101,296	5.294	
		ICV1	**Avg.**	102,228	**5.344**	1.87

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:15 pm			2,766	0.000	
2	12:21 pm			3,226	0.022	
		ICB1	**Avg.**	2,996	**0.011**	< PQL

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:30 pm			9,408	0.354	
2	12:36 pm			9,476	0.358	
		CRL1	**Avg.**	9,442	**0.356**	1.12

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:44 pm			2,573	0.000	
2	12:50 pm			3,026	0.011	
		B[G1844-BLK1	**Avg.**	2,800	**0.006**	< PQL

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:59 pm			104,499	5.466	
2	1:05 pm			102,540	5.361	
		B[G1844-BS1	**Avg.**	103,519	**5.414**	1.94

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:13 pm			5,377	0.190	
2	1:19 pm			5,947	0.221	
		1720022-01@D	**Avg.**	5,662	**0.206**	< PQL

BC Laboratories

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:27 pm			6,985	0.277	
2	1:33 pm			7,257	0.291	
		B[G1844-ICC@D	**Avg.**	7,121	**0.284**	4.93

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:42 pm			5,523	0.198	
2	1:47 pm			6,173	0.233	
		B[G1844-DUP1@D	**Avg.**	5,848	**0.216**	< PQL

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:56 pm			104,522	5.520	
2	2:02 pm			104,063	5.496	
		B[G1844-MS1@D	**Avg.**	104,292	**5.508**	0.44

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:10 pm			104,186	5.502	
2	2:16 pm			103,831	5.483	
		B[G1844-MSD1@D	**Avg.**	104,008	**5.493**	0.35

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:25 pm			7,021	0.279	
2	2:30 pm			7,454	0.301	
		1720022-02@D	**Avg.**	7,237	**0.290**	7.59

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:39 pm			12,059	0.550	
2	2:45 pm			12,491	0.573	
		1720022-03@D	**Avg.**	12,275	**0.561**	4.10

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:53 pm			102,555	5.361	
2	2:59 pm			101,338	5.295	
		CCV1	**Avg.**	101,947	**5.328**	1.24

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:07 pm			2,939	0.006	
2	3:13 pm			2,899	0.004	
		CCB1	**Avg.**	2,919	**0.005**	< PQL

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:22 pm			6,692	0.260	
2	3:28 pm			6,813	0.268	
		1720022-04@D	**Avg.**	6,753	**0.264**	3.03

BC Laboratories

Rep #	Time	Date: 07/24/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:36 pm				5,845	0.216	
2	3:42 pm				6,148	0.232	
			1720022-05@D	**Avg.**	5,997	**0.224**	7.14

Rep #	Time	Date: 07/24/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:51 pm				6,389	0.245	
2	3:56 pm				6,378	0.244	
			1720022-06@D	**Avg.**	6,384	**0.244**	0.41

Rep #	Time	Date: 07/24/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:05 pm				8,795	0.374	
2	4:11 pm				8,957	0.383	
			1720022-07@D	**Avg.**	8,876	**0.379**	2.38

Rep #	Time	Date: 07/24/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:19 pm				7,985	0.331	
2	4:25 pm				8,146	0.339	
			1720022-08@D	**Avg.**	8,065	**0.335**	2.39

Rep #	Time	Date: 07/24/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:34 pm				8,898	0.380	
2	4:40 pm				8,758	0.372	
			1720022-09@D	**Avg.**	8,828	**0.376**	2.13

Rep #	Time	Date: 07/24/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:48 pm				7,614	0.311	
2	4:54 pm				7,515	0.305	
			1720022-10@D	**Avg.**	7,565	**0.308**	1.95

Rep #	Time	Date: 07/24/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:02 pm				3,279	0.024	
2	5:08 pm				2,990	0.009	
			B[G1845-BLK1	**Avg.**	3,134	**0.016**	< PQL

Rep #	Time	Date: 07/24/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:17 pm				104,182	5.449	
2	5:23 pm				103,312	5.402	
			B[G1845-BS1	**Avg.**	103,747	**5.425**	0.87

Rep #	Time	Date: 07/24/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:31 pm				79,882	4.196	
2	5:37 pm				95,718	5.047	
			1720122-06@L	**Avg.**	87,800	**4.621**	< PQL

BC Laboratories

Rep #	Time	Date: 07/24/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:45 pm		102,967	5.384	
2	5:52 pm		102,755	5.372	
		CCV2 Avg.	102,861	**5.378**	0.22

Rep #	Time	Date: 07/24/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:00 pm		3,743	0.049	
2	6:05 pm		3,791	0.052	
		CCB2 Avg.	3,767	**0.050**	5.94

Rep #	Time	Date: 07/24/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:14 pm		77,799	4.084	
2	6:20 pm		91,603	4.826	
		B[G1845-ICC@L Avg.	84,701	**4.455**	< PQL

Rep #	Time	Date: 07/24/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:29 pm		81,901	4.304	
2	6:35 pm		94,775	4.996	
		B[G1845-DUP1@L Avg.	88,338	**4.650**	< PQL

Rep #	Time	Date: 07/24/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:43 pm		166,942	8.875	
2	6:49 pm		182,513	9.713	
		B[G1845-MS1@L Avg.	174,727	**9.294**	9.02

Rep #	Time	Date: 07/24/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:57 pm		167,243	8.892	
2	7:03 pm		181,994	9.685	
		B[G1845-MSD1@L Avg.	174,618	**9.289**	8.54

Rep #	Time	Date: 07/24/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:12 pm		123,798	6.557	
2	7:18 pm		142,942	7.586	
		1720122-03@V Avg.	133,370	**7.071**	14.55

Rep #	Time	Date: 07/24/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:26 pm		130,690	6.927	
2	7:32 pm		131,052	6.947	
		1720122-04@2O Avg.	130,871	**6.937**	0.29

Rep #	Time	Date: 07/24/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:41 pm		98,100	5.175	
2	7:46 pm		98,451	5.194	
		1720122-05@L Avg.	98,275	**5.185**	0.37

BC Laboratories

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:55 pm			154,319	8.197	
2	8:01 pm			155,890	8.282	
		1720122-07@H	**Avg.**	155,104	**8.240**	1.03

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:09 pm			91,179	4.802	
2	8:15 pm			91,926	4.843	
		1720122-08@10H	**Avg.**	91,553	**4.823**	0.85

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:24 pm			77,451	4.064	
2	8:29 pm			78,291	4.110	
		1720122-09@5H	**Avg.**	77,871	**4.087**	1.13

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:38 pm			103,379	5.406	
2	8:44 pm			104,779	5.480	
		CCV3	**Avg.**	104,079	**5.443**	1.36

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:52 pm			4,284	0.078	
2	8:58 pm			4,820	0.107	
		CCB3	**Avg.**	4,552	**0.093**	< PQL

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:07 pm			81,848	4.301	
2	9:13 pm			82,568	4.340	
		1720122-10@10H	**Avg.**	82,208	**4.321**	0.90

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:21 pm			49,150	2.544	
2	9:27 pm			50,070	2.592	
		1720122-11@10H	**Avg.**	49,610	**2.568**	1.87

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:36 pm			128,589	6.814	
2	9:41 pm			131,516	6.972	
		1720122-12@5H	**Avg.**	130,053	**6.893**	2.29

Rep #	Time	Date: 07/24/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:50 pm			4,987	0.116	
2	9:56 pm			5,855	0.163	
		B[G1846-BLK1	**Avg.**	5,421	**0.139**	< PQL

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Rep #	Time	Date: 07/24/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:04 pm		104,644	5.474	
2	10:10 pm		105,100	5.498	
		B[G1846-BS1 **Avg.**	104,872	**5.486**	0.44

Rep #	Time	Date: 07/24/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:19 pm		41,071	2.109	
2	10:25 pm		42,159	2.168	
		1720110-12@5P **Avg.**	41,615	**2.138**	2.76

Rep #	Time	Date: 07/24/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:33 pm		38,615	1.977	
2	10:39 pm		39,717	2.036	
		B[G1846-ICC@5P **Avg.**	39,166	**2.007**	2.94

Rep #	Time	Date: 07/24/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:48 pm		41,216	2.116	
2	10:53 pm		42,148	2.167	
		B[G1846-DUP1@5P **Avg.**	41,682	**2.142**	2.38

Rep #	Time	Date: 07/24/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:02 pm		140,772	7.469	
2	11:08 pm		140,694	7.465	
		B[G1846-MS1@5P **Avg.**	140,733	**7.467**	0.05

Rep #	Time	Date: 07/24/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:16 pm		140,905	7.476	
2	11:22 pm		140,554	7.457	
		B[G1846-MSD1@5P **Avg.**	140,729	**7.466**	0.25

Rep #	Time	Date: 07/24/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:31 pm		103,298	5.401	
2	11:37 pm		102,931	5.382	
		CCV4 **Avg.**	103,114	**5.391**	0.35

Rep #	Time	Date: 07/24/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:45 pm		3,896	0.058	
2	11:51 pm		4,262	0.077	
		CCB4 **Avg.**	4,079	**0.068**	< PQL

Rep #	Time	Date: 07/25/2017	TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:00 am		41,949	2.156	
2	12:06 am		42,870	2.206	
		1720110-02@5F **Avg.**	42,410	**2.181**	2.29

BC Laboratories

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:14 am			41,714	2.144	
2	12:20 am			42,877	2.206	
		1720110-03@5F	**Avg.**	42,295	**2.175**	2.85

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:28 am			47,882	2.475	
2	12:34 am			48,331	2.500	
		1720110-10@5F	**Avg.**	48,106	**2.488**	1.01

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:43 am			47,330	2.446	
2	12:49 am			47,852	2.474	
		1720110-11@5F	**Avg.**	47,591	**2.460**	1.14

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:57 am			152,008	8.073	
2	1:03 am			155,854	8.280	
		1720121-13@J	**Avg.**	153,931	**8.176**	2.53

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:12 am			50,207	2.600	
2	1:18 am			55,303	2.874	
		1720121-14@I	**Avg.**	52,755	**2.737**	< PQL

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:26 am			17,748	0.855	
2	1:32 am			18,402	0.891	
		1720022-11@D	**Avg.**	18,075	**0.873**	4.12

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:41 am			5,999	0.224	
2	1:46 am			5,855	0.216	
		1720022-12@D	**Avg.**	5,927	**0.220**	3.64

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	1:55 am			13,353	0.619	
2	2:01 am			13,402	0.622	
		1720044-01@F	**Avg.**	13,377	**0.620**	0.48

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:10 am			4,111	0.069	
2	2:15 am			4,382	0.084	
		B[G1847-BLK1	**Avg.**	4,247	**0.077**	< PQL

BC Laboratories

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:24 am			103,495	5.412	
2	2:30 am			102,635	5.366	
		CCV5	**Avg.**	103,065	**5.389**	0.85

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:39 am			3,922	0.059	
2	2:44 am			4,117	0.069	
		CCB5	**Avg.**	4,020	**0.064**	< PQL

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	2:53 am			105,474	5.518	
2	2:59 am			105,711	5.531	
		B[G1847-BS1	**Avg.**	105,593	**5.525**	0.24

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:08 am			14,899	0.702	
2	3:14 am			18,766	0.910	
		1720121-01@X	**Avg.**	16,833	**0.806**	< PQL

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:22 am			14,785	0.696	
2	3:28 am			19,387	0.944	
		B[G1847-ICC@X	**Avg.**	17,086	**0.820**	< PQL

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:37 am			14,494	0.680	
2	3:43 am			18,812	0.913	
		B[G1847-DUP1@X	**Avg.**	16,653	**0.797**	< PQL

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	3:51 am			63,998	3.342	
2	3:57 am			76,715	4.025	
		B[G1847-MS1@X	**Avg.**	70,357	**3.684**	< PQL

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:06 am			61,463	3.206	
2	4:12 am			77,772	4.082	
		B[G1847-MSD1@X	**Avg.**	69,617	**3.644**	< PQL

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:20 am			110,830	5.859	
2	4:26 am			111,293	5.884	
		1720121-03@J	**Avg.**	111,061	**5.871**	0.43

BC Laboratories

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:35 am			67,920	3.553	
2	4:41 am			68,746	3.596	
		1720121-06@I	**Avg.**	68,333	**3.574**	1.20

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	4:49 am			7,092	0.283	
2	4:55 am			9,208	0.396	
		1720121-07@2I	**Avg.**	8,150	**0.340**	< PQL

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:04 am			40,045	2.054	
2	5:10 am			41,364	2.124	
		1720121-08@I	**Avg.**	40,704	**2.089**	3.35

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:18 am			104,456	5.464	
2	5:24 am			105,333	5.511	
		CCV6	**Avg.**	104,894	**5.488**	0.86

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:33 am			4,605	0.096	
2	5:38 am			4,961	0.115	
		CCB6	**Avg.**	4,783	**0.106**	< PQL

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	5:47 am			37,148	1.898	
2	5:53 am			38,052	1.947	
		1720121-09@10I	**Avg.**	37,600	**1.923**	2.55

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:02 am			38,079	1.948	
2	6:08 am			43,684	2.250	
		1720121-10@I	**Avg.**	40,881	**2.099**	< PQL

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:16 am			96,363	5.082	
2	6:22 am			97,402	5.138	
		1720121-11@5J	**Avg.**	96,882	**5.110**	1.10

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:31 am			81,292	4.272	
2	6:37 am			81,967	4.308	
		1720121-12@5J	**Avg.**	81,629	**4.290**	0.84

BC Laboratories

Rep #	Time	Date: 07/25/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	6:46 am				112,430	5.945	
2	6:51 am				118,009	6.245	
			1720084-01@2K	**Avg.**	115,220	**6.095**	4.92

Rep #	Time	Date: 07/25/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:00 am				107,712	5.639	
2	7:06 am				109,204	5.719	
			CCV7	**Avg.**	108,458	**5.679**	1.41

Rep #	Time	Date: 07/25/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:15 am				6,522	0.199	
2	7:21 am				6,941	0.221	
			CCB7	**Avg.**	6,731	**0.210**	< PQL

Rep #	Time	Date: 07/25/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:30 am				101,149	5.286	
2	7:35 am				103,033	5.387	
			CCV7	**Avg.**	102,091	**5.336**	1.89

Rep #	Time	Date: 07/25/2017			TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	7:44 am				3,130	0.016	
2	7:50 am				3,825	0.054	
			CCB7	**Avg.**	3,478	**0.035**	< PQL

BC Laboratories

Sample Results

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:17 am			105,120	5.499	
2	8:23 am			103,015	5.386	
		CCV8	Avg.	104,068	**5.443**	2.08
Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:31 am			3,349	0.028	
2	8:37 am			3,974	0.062	
		CCB8	Avg.	3,662	**0.045**	< PQL
Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	8:46 am			80,541	4.231	
2	8:52 am			80,941	4.253	
		1720121-13@2J	Avg.	80,741	**4.242**	0.52
Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:00 am			29,808	1.504	
2	9:06 am			31,196	1.578	
		1720121-14@2I	Avg.	30,502	**1.541**	4.80
Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:14 am			11,099	0.498	
2	9:20 am			14,771	0.695	
		1720121-01@2X	Avg.	12,935	**0.596**	< PQL
Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:28 am			11,395	0.514	
2	9:34 am			14,835	0.699	
		B[G1847-ICC@2X	Avg.	13,115	**0.606**	< PQL
Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:43 am			11,355	0.512	
2	9:49 am			15,044	0.710	
		B[G1847-DUP1@2X	Avg.	13,200	**0.611**	< PQL
Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	9:57 am			82,588	4.341	
2	10:03 am			95,475	5.034	
		B[G1847-MS1@2X	Avg.	89,031	**4.688**	< PQL

BC Laboratories

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:11 am			82,579	4.341	
2	10:17 am			95,500	5.035	
		B[G1847-MSD1@2X	Avg.	89,039	**4.688**	< PQL

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:25 am			57,587	2.997	
2	10:31 am			57,343	2.983	
		1720121-03@2J	Avg.	57,465	**2.990**	0.47

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:40 am			35,289	1.798	
2	10:45 am			35,779	1.825	
		1720121-06@2I	Avg.	35,534	**1.812**	1.49

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	10:54 am			23,233	1.150	
2	11:00 am			23,692	1.175	
		1720121-08@2I	Avg.	23,462	**1.163**	2.15

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:08 am	ALW 7-26-17		103,740	5.425	
2	11:14 am			103,599	5.418	
		CCV~~6~~ 9	Avg.	103,669	**5.421**	0.13

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:22 am	ALW 7-26-17		3,611	0.042	
2	11:28 am			4,072	0.066	
		CCB~~6~~ 9	Avg.	3,841	**0.054**	< PQL

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:37 am			15,789	0.750	
2	11:43 am			15,800	0.751	
		1720121-10@2I	Avg.	15,795	**0.750**	0.13

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	11:51 am	ALW 7-26-17		103,124	5.391	
2	11:57 am			103,393	5.407	
		CCV~~7~~ A	Avg.	103,258	**5.399**	0.30

Rep #	Time	Date: 07/25/2017		TOC Area (cts)	TOC Conc (PPM)	% RPD.
1	12:05 pm	ALW 7-26-17		3,114	0.016	
2	12:11 pm	A		3,639	0.044	
		CCB~~7~~	Avg.	3,377	**0.030**	< PQL

Raw Data - Calibration Summary

O·I·CORPORATION

Date Prepared: 06/30/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Sample Results Summary

Spl #	Vial #	Sample ID	Num Rep	Act Rep	Method	Type	Dil	Customer ID	Mode	Avg. Area (cts)	Avg. Mass (ug)	Avg. Conc (PPM)	Std. Dev	% RSD	Notes
1	-	Clean Up	6	6	DefaultCleanUpMethod	Clean Up	1 : 1	00000000	TIC	282	0.000	0.000	111	39.38	
									TOC	4,910	0.000	0.000	479	9.76	
3	1	TOC-RW	4	4	170629 - 5 mls - Jun 29, 2017; 03-00-31 PM	Standard	1 : 1	00000000	TOC	6,686	0.000	0.000	608	9.10	
4	2	TOC-Std#1-1.000 PPM	4	4	170629 - 5 mls - Jun 29, 2017; 03-00-31 PM	Standard	1 : 1	00000000	TOC	26,062	5.000	1.000	233	0.89	
5	3	TOC-Std#2-5.000 PPM	4	4	170629 - 5 mls - Jun 29, 2017; 03-00-31 PM	Standard	1 : 1	00000000	TOC	100,281	25.000	5.000	477	0.48	
6	4	TOC-Std#3-10.000 PPM	4	4	170629 - 5 mls - Jun 29, 2017; 03-00-31 PM	Standard	1 : 1	00000000	TOC	192,988	50.000	10.000	1,456	0.75	

O·I·CORPORATION

Date Prepared: 06/30/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Sample Results

Spl #: 1 **Sample ID :** Clean Up **Type :** Clean Up **Date:** 06/29/2017 **Status:** Passed
Vial #: - **Method :** DefaultCleanUpMethod **Dilution** 1 : 1 **Customer ID:** 00000000

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	3:14 pm	447	0.000	0.000	5,230	0.000	0.000
2	3:22 pm	167	0.000	0.000	5,734	0.000	0.000
3	3:29 pm	147	0.000	0.000	4,610	0.000	0.000
4	3:37 pm	290	0.000	0.000	4,772	0.000	0.000
5	3:44 pm	314	0.000	0.000	4,618	0.000	0.000
6	3:52 pm	330	0.000	0.000	4,493	0.000	0.000
	Avg.	282	0.000	0.000	4,910	0.000	0.000
	Std.Dev.	111			479		
	% RSD.	39.38			9.76		

Spl #: 3 **Sample ID :** TOC-RW **Type :** Standard **Date:** 06/29/2017 **Status:** Passed
Vial #: 1 **Method :** 170629 - 5 mls - Jun 29, 2017; **Dilution** 1 : 1 **Customer ID:** 00000000

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	4:21 pm	-	-	-	5,975	0.000	0.000
2	4:27 pm	-	-	-	7,250	0.000	0.000
3	4:33 pm	-	-	-	6,387	0.000	0.000
4	4:39 pm	-	-	-	7,130	0.000	0.000
	Avg.	-	-	-	6,686	0.000	0.000
	Std.Dev.				608		
	% RSD.				9.10		

O·I·CORPORATION

Date Prepared: 06/30/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Spl #:	4	**Sample ID :**	TOC-Std#1-1.000 PPM	**Type :**	Standard	**Date:**	06/29/2017	**Status:**	Passed
Vial #:	2	**Method :**	170629 - 5 mls - Jun 29, 2017;	**Dilution**	1 : 1	**Customer ID:**	00000000		

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	4:48 pm	-	-	-	26,199	5.000	1.000
2	4:54 pm	-	-	-	26,116	5.000	1.000
3	5:00 pm	-	-	-	25,718	5.000	1.000
4	5:05 pm	-	-	-	26,214	5.000	1.000
	Avg.	-	-	-	26,062	5.000	1.000
	Std.Dev.				233		
	% RSD.				0.89		

Spl #:	5	**Sample ID :**	TOC-Std#2-5.000 PPM	**Type :**	Standard	**Date:**	06/29/2017	**Status:**	Passed
Vial #:	3	**Method :**	170629 - 5 mls - Jun 29, 2017;	**Dilution**	1 : 1	**Customer ID:**	00000000		

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	5:14 pm	-	-	-	100,930	25.000	5.000
2	5:19 pm	-	-	-	99,990	25.000	5.000
3	5:26 pm	-	-	-	100,341	25.000	5.000
4	5:31 pm	-	-	-	99,865	25.000	5.000
	Avg.	-	-	-	100,281	25.000	5.000
	Std.Dev.				477		
	% RSD.				0.48		

O·I·CORPORATION

Date Prepared: 06/30/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Spl #:	6	**Sample ID :**	TOC-Std#3-10.000 PPM	**Type :**	Standard	**Date:**	06/29/2017	**Status:**	Passed
Vial #:	4	**Method :**	170629 - 5 mls - Jun 29, 2017;	**Dilution**	1 : 1	**Customer ID:**	00000000		

Rep #	Time	TIC Area (cts)	TIC Mass (ugC)	TIC Conc (PPM)	TOC Area (cts)	TOC Mass (ugC)	TOC Conc (PPM)
1	5:40 pm	-	-	-	194,519	50.000	10.000
2	5:46 pm	-	-	-	192,526	50.000	10.000
3	5:52 pm	-	-	-	193,725	50.000	10.000
4	5:57 pm	-	-	-	191,182	50.000	10.000
	Avg.	-	-	-	192,988	50.000	10.000
	Std.Dev.				1,456		
	% RSD.				0.75		

O·I·CORPORATION

Date Prepared: 06/30/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Method Summary

Method Details

Method Name:	170629 - 5 mls - Jun 29, 2017
Date Created:	06/29/2017
Time Created:	15:01
Created By:	ALW

Pre-Processing

Sample Dilution:	Disabled
Dilution Mode:	Automatic
Dilution Factor:	1 : 1
Sample Stirring in A/S:	Enabled

Times

	React	Detect
TIC	01:30	03:00
TOC	02:00	03:15

Temp

	React	Detect
TIC	70	70
TOC	98	98

Analysis Mode: NPOC Only

Sparging Mode:	Internal
Pre-Acid Volume (mL):	1.000
Sparge Time (mm:ss):	02:00

Outlier Removal Criteria

Additional Replicates:	0
Max. % RSD.	3.00

Peak Detection Parameters

Signal-to-Noise Ratio:	3
Minimum Peak Width (min:sec):	00:30
Peak Resolution to BaseLine(%):	99

Volumes

Sample Volume (mL):	5.000
Acid Volume (mL):	0.500
Persulfate Volume(mL):	1.000

Rinses

Rinse Volume (mL):	10.000
Rinses Per Sample:	1
Rinses Per Replicate:	0

Other

SysPressure:	20.00

Calibration Summary

Calibration Generation

Generation Mode:	Manual
# of Stds:	5
Dilution Factor:	10 : 1
Dilution Volume (mL):	1.000
Add Zero as Std #1:	No

Calibration Pass/Fail Criteria

Parameter	Low	High	Failure
RF (ugC/K-cts)	-	-	-
R2	0.995	1.000	Abort
Offset (area) (cts)	-	-	-
Offset (mass) (ugC)	-	-	-

Calibration Mode

Primary Mode:	TOC
User for ALL Modes:	Enabled

Checks, QC's and Actions

Type	Target (PPM)	Tolerance (+/- %)	1st Failure	2nd Failure
CK Std	n/a	10,000.00	Continue	Continue
QC #1	5.000	10,000.00	Continue	Continue
QC #2	5.000	15,000.00	Continue	Continue
QC #3	1.000	50,000.00	Continue	Continue
QC #4	0.001	100,000.00	Continue	Continue
SST	0.000	0.00	Continue	Continue

O·I·CORPORATION

Date Prepared: 06/30/2017 **By:**

Date Approved: **By:**

TOC

OI Corporation
College Station, TX 77845 USA

No Customer
None, None - None

Calibration Details

Calibration Mode:	TOC	
Date Calibrated:	06/29/2017	
Time Calibrated:	5:57 pm	
Calibrated By:	ALW	
RF (ugC/k-cts):		0.2688
R2:		0.9999
Offset (area)(cts):		7099
Offset (mass)(ugC):		-1.908
Reagent Blank (cts):		1,837

Calibration Settings

Stock Conc. For Dilutions: (PPM)	1,000.000
# of Reagent Blanks:	2
Total Flowrate w/EFC:	50 ml/min
Check Standards:	Subtract Offset
Regression type:	Unweighted

Raw Data - Batch Information

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G1846

BC Laboratories

Printed: 8/22/2017 1:10:14PM

Matrix: Water | Prepared using: Wet Chem - General Preparation | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720022-11 D	iSM5310Cw NVOC	7/24/2017 7:10AM	ALW	100	100					
1720022-12 D	iSM5310Cw NVOC	7/24/2017 7:10AM	ALW	100	100					
1720044-01 F	iSM5310Cw NVOC	7/24/2017 7:10AM	ALW	100	100					
1720110-02 F	i415.1w NVOC	7/24/2017 7:10AM	ALW	100	100					
1720110-03 F	i415.1w NVOC	7/24/2017 7:10AM	ALW	100	100					
1720110-10 F	i415.1w NVOC	7/24/2017 7:10AM	ALW	100	100					
1720110-11 F	i415.1w NVOC	7/24/2017 7:10AM	ALW	100	100					
1720110-12 P	iSM5310Cw NVOC	7/24/2017 7:10AM		100	100					
1720110-12 P	i415.1w NVOC	7/24/2017 7:10AM	ALW	100	100					
1720121-13 J	i415.1w NVOC	7/24/2017 7:10AM	ALW	100	100					
1720121-14 I	i415.1w NVOC	7/24/2017 7:10AM	ALW	100	100					
B[G1846-BLK1	QC	7/24/2017 7:10AM	ALW	100	100					
B[G1846-BS1	QC	7/24/2017 7:10AM	ALW	100	100	7D13023		500		
B[G1846-DUP1	QC	7/24/2017 7:10AM	ALW	100	100		1720110-12			
B[G1846-MS1	QC	7/24/2017 7:10AM	ALW	99.5	100	7D13023	1720110-12	2500		
B[G1846-MSD1	QC	7/24/2017 7:10AM	ALW	99.5	100	7D13023	1720110-12	2500		

Spike Mixes	Description	Solvent	Prepared	Expires
7D13023	TOC KHP 1000 /SPIKE	H3P04 IN WATER	4/13/2017 by ** Vendor **	3/31/2018

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G1847

BC Laboratories

Printed: 8/22/2017 1:10:14PM

Matrix: Water | Prepared using: Wet Chem - General Preparation | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720084-01 K	i415.1w NVOC	7/24/2017 7:10AM	ALW	100	100					
1720121-01 X	i415.1w NVOC	7/24/2017 7:10AM	ALW	100	100					
1720121-03 J	i415.1w NVOC	7/24/2017 7:10AM	ALW	100	100					
1720121-06 I	i415.1w NVOC	7/24/2017 7:10AM	ALW	100	100					
1720121-07 I	i415.1w NVOC	7/24/2017 7:10AM	ALW	100	100					
1720121-08 I	i415.1w NVOC	7/24/2017 7:10AM	ALW	100	100					
1720121-09 I	i415.1w NVOC	7/24/2017 7:10AM	ALW	100	100					
1720121-10 I	i415.1w NVOC	7/24/2017 7:10AM	ALW	100	100					
1720121-11 J	i415.1w NVOC	7/24/2017 7:10AM	ALW	100	100					
1720121-12 J	i415.1w NVOC	7/24/2017 7:10AM	ALW	100	100					
B[G1847-BLK1	QC	7/24/2017 7:10AM	ALW	100	100					
B[G1847-BS1	QC	7/24/2017 7:10AM	ALW	100	100	7D13023		500		
B[G1847-DUP1	QC	7/24/2017 7:10AM	ALW	100	100		1720121-01			
B[G1847-MS1	QC	7/24/2017 7:10AM	ALW	99.5	100	7D13023	1720121-01	1000		
B[G1847-MSD1	QC	7/24/2017 7:10AM	ALW	99.5	100	7D13023	1720121-01	1000		

Spike Mixes	Description	Solvent	Prepared	Expires
7D13023	TOC KHP 1000 /SPIKE	H3P04 IN WATER	4/13/2017 by ** Vendor **	3/31/2018

Raw Data - Sequence Information

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713149

Instrument: TOC2
Calibration ID:
Sequence Date: 07/24/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713149-ICV1	QC		1		7F15031		
1713149-ICB1	QC		2				
1713149-CRL1	QC		3		7G24019		
B[G1844-BLK1	QC		4				
B[G1844-BS1	QC		5				
1720022-01	iSM5310Cw NVOC	D	6				
B[G1844-DUP1	QC		7				
B[G1844-MS1	QC		8				
B[G1844-MSD1	QC		9				
1720022-02	iSM5310Cw NVOC	D	10				
1720022-03	iSM5310Cw NVOC	D	11				
1713149-CCV1	QC		12		7G24020		
1713149-CCB1	QC		13				
1720022-04	iSM5310Cw NVOC	D	14				
1720022-05	iSM5310Cw NVOC	D	15				
1720022-06	iSM5310Cw NVOC	D	16				
1720022-07	iSM5310Cw NVOC	D	17				
1720022-08	iSM5310Cw NVOC	D	18				
1720022-09	iSM5310Cw NVOC	D	19				
1720022-10	iSM5310Cw NVOC	D	20				
B[G1845-BLK1	QC		21				
B[G1845-BS1	QC		22				
1720122-06	i415.1w NVOC	L	23				
1713149-CCV2	QC		24		7G24020		
1713149-CCB2	QC		25				
B[G1845-DUP1	QC		26				
B[G1845-MS1	QC		27				
B[G1845-MSD1	QC		28				
1720122-04	i415.1w NVOC	O	29				
1720122-05	i415.1w NVOC	L	30				
1720122-07	i415.1w NVOC	H	31				
1720122-08	i415.1w NVOC	H	32				
1720122-09	i415.1w NVOC	H	33				
1713149-CCV3	QC		34		7G24020		
1713149-CCB3	QC		35				
1720122-10	i415.1w NVOC	H	36				
1720122-11	i415.1w NVOC	H	37				
1720122-12	i415.1w NVOC	H	38				
B[G1846-BLK1	QC		39				

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713149

Instrument: TOC2
Calibration ID:
Sequence Date: 07/24/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
B[G1846-BS1	QC		40				
1720110-12	i415.1w NVOC	P	41				
1720110-12	iSM5310Cw NVOC	P	42				BatchQC
B[G1846-DUP1	QC		43				
B[G1846-MS1	QC		44				
B[G1846-MSD1	QC		45				
1713149-CCV4	QC		46		7G24020		
1713149-CCB4	QC		47				
1720110-02	i415.1w NVOC	F	48				
1720110-03	i415.1w NVOC	F	49				
1720110-10	i415.1w NVOC	F	50				
1720110-11	i415.1w NVOC	F	51				
1720022-11	iSM5310Cw NVOC	D	52				
1720022-12	iSM5310Cw NVOC	D	53				
1720044-01	iSM5310Cw NVOC	F	54				
B[G1847-BLK1	QC		55				
1713149-CCV5	QC		56		7G24020		
1713149-CCB5	QC		57				
B[G1847-BS1	QC		58				
1720121-07	i415.1w NVOC	I	59				
1713149-CCV6	QC		60		7G24020		
1713149-CCB6	QC		61				
1720121-09	i415.1w NVOC	I	62				
1720121-11	i415.1w NVOC	J	63				
1720121-12	i415.1w NVOC	J	64				
1720084-01	i415.1w NVOC	K	65				
1713149-CCV7	QC		66		7G24020		
1713149-CCB7	QC		67				
1713149-CCV8	QC		68		7G24020		
1713149-CCB8	QC		69				
1720121-13	i415.1w NVOC	J	70				
1720121-14	i415.1w NVOC	I	71				
1720121-01	i415.1w NVOC	X	72				
B[G1847-DUP1	QC		73				
B[G1847-MS1	QC		74				
B[G1847-MSD1	QC		75				
1720121-03	i415.1w NVOC	J	76				
1720121-06	i415.1w NVOC	I	77				
1720121-08	i415.1w NVOC	I	78				

ANALYSIS SEQUENCE

1713149

Instrument: TOC2
Calibration ID:
Sequence Date: 07/24/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713149-CCV9	QC		79		7G24020		
1713149-CCB9	QC		80				
1720121-10	i415.1w NVOC	I	81				
1713149-CCVA	QC		82		7G24020		
1713149-CCBA	QC		83				

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **17-20121**
Class: **WET**
Method: **SM-4500SD**

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSES DATA PACKAGE COVER PAGE

SM-4500SD

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Client Sample Id:	Lab Sample Id:
15-MW1_170721	1720121-01
15-MW3_170721	1720121-03
27MW03_170721	1720121-06
27MW04_170721	1720121-07
27MW10_170721	1720121-08
27MW11_170721	1720121-09
27MW12_170721	1720121-10
M14-15_170721	1720121-11
M14-16_170721	1720121-12
27EW-12_170721	1720121-13
27MW13_170721	1720121-14

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been autorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 08-22-2017
Title: QA/QC Manager

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD DETECTION AND REPORTING LIMITS

SM-4500SD

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Instrument: SPEC06

Analyte	DL	LOD	LOQ	Units
Total Sulfide	0.05	0.1	0.1	mg/L

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

15-MW1_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-01
File ID:
Sampled: 07/21/17 08:30
Prepared: 07/26/17 09:00
Analyzed: 07/26/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2245
Sequence: 1713328
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

15-MW3_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-03
File ID:
Sampled: 07/21/17 09:40
Prepared: 07/26/17 09:00
Analyzed: 07/26/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2245
Sequence: 1713328
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

27MW03_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-06
File ID:
Sampled: 07/21/17 09:20
Prepared: 07/26/17 09:00
Analyzed: 07/26/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2245
Sequence: 1713328
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

27MW04_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-07
File ID:
Sampled: 07/21/17 11:45
Prepared: 07/26/17 09:00
Analyzed: 07/26/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2245
Sequence: 1713328
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

27MW10_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-08
File ID:
Sampled: 07/21/17 10:26
Prepared: 07/26/17 09:00
Analyzed: 07/26/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2245
Sequence: 1713328
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

27MW11_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-09
File ID:
Sampled: 07/21/17 10:50
Prepared: 07/26/17 09:00
Analyzed: 07/26/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2245
Sequence: 1713328
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	1.0	0.50	1.0	1.0	10	UD	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

27MW12_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-10
File ID:
Sampled: 07/21/17 11:35
Prepared: 07/26/17 09:00
Analyzed: 07/26/17 09:00
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2245
Sequence: 1713328
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.50	0.25	0.50	0.50	5	UD	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

M14-15_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-11
File ID:
Sampled: 07/21/17 08:20
Prepared: 07/28/17 12:45
Analyzed: 07/28/17 12:45
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2469
Sequence: 1713618
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

M14-16_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-12
File ID:
Sampled: 07/21/17 09:15
Prepared: 07/28/17 12:45
Analyzed: 07/28/17 12:45
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2469
Sequence: 1713618
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.20	0.10	0.20	0.20	2	UD	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

27EW-12_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-13
File ID:
Sampled: 07/21/17 12:56
Prepared: 07/28/17 12:45
Analyzed: 07/28/17 12:45
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2469
Sequence: 1713618
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INORGANIC ANALYSIS DATA SHEET
SM-4500SD

27MW13_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Laboratory ID: 1720121-14
File ID:
Sampled: 07/21/17 13:10
Prepared: 07/28/17 12:45
Analyzed: 07/28/17 12:45
Solids: 0.00
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Batch: B[G2469
Sequence: 1713618
Calibration: UNASSIGNED
Instrument: SPEC06

CAS NO.	Analyte	Concentration (mg/L)	DL	LOD	LOQ	Dilution Factor	Q	Method
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	1	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

SM-4500SD

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G2245
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
15-MW1_170721	1720121-01		07/26/17 09:00	
15-MW3_170721	1720121-03		07/26/17 09:00	
27MW03_170721	1720121-06		07/26/17 09:00	
27MW04_170721	1720121-07		07/26/17 09:00	
27MW10_170721	1720121-08		07/26/17 09:00	
27MW11_170721	1720121-09		07/26/17 09:00	
27MW12_170721	1720121-10		07/26/17 09:00	
Blank	B[G2245-BLK1		07/26/17 09:00	
LCS	B[G2245-BS1		07/26/17 09:00	
15-MW1_170721	B[G2245-DUP1		07/26/17 09:00	
15-MW1_170721	B[G2245-MS1		07/26/17 09:00	
15-MW1_170721	B[G2245-MSD1		07/26/17 09:00	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

PREPARATION BATCH SUMMARY

SM-4500SD

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Batch: B[G2469
Batch Matrix: Water
Preparation: No Prep

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
M14-15_170721	1720121-11		07/28/17 12:45	
M14-16_170721	1720121-12		07/28/17 12:45	
27EW-12_170721	1720121-13		07/28/17 12:45	
27MW13_170721	1720121-14		07/28/17 12:45	
Blank	B[G2469-BLK1		07/28/17 12:45	
LCS	B[G2469-BS1		07/28/17 12:45	
27EW-12_170721	B[G2469-DUP1		07/28/17 12:45	
27EW-12_170721	B[G2469-MS1		07/28/17 12:45	
27EW-12_170721	B[G2469-MSD1		07/28/17 12:45	

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
SM-4500SD

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G2245-BLK1	File ID:	
Prepared:	07/26/17 09:00	Preparation:	No Prep	Initial/Final:	25 ml / 25 ml
Analyzed:	07/26/17 09:00	Instrument:	SPEC06		
Batch:	B[G2245	Sequence:	1713328	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

METHOD BLANK DATA SHEET
SM-4500SD

Laboratory:	BC Laboratories			SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN			Project:	Alameda
Matrix:	Water	Laboratory ID:	B[G2469-BLK1	File ID:	
Prepared:	07/28/17 12:45	Preparation:	No Prep	Initial/Final:	25 ml / 25 ml
Analyzed:	07/28/17 12:45	Instrument:	SPEC06		
Batch:	B[G2469	Sequence:	1713618	Calibration:	UNASSIGNED

CAS NO.	COMPOUND	CONC. (mg/L)	DL	LOD	LOQ	Q
18496-25-8	Total Sulfide	0.10	0.050	0.10	0.10	U

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

15-MW1_170721

DUPLICATES

SM-4500SD

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[G2245
Preparation: No Prep
Source Sample Name: 15-MW1_170721

SDG: 17-20121
Project: Alameda
Laboratory ID: B[G2245-DUP1
Lab Source ID: 1720121-01
Initial/Final: 25 ml / 25 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Total Sulfide	10	0.0060600		ND				SM-4500SD

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

27EW-12_170721

DUPLICATES

SM-4500SD

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Matrix: Water
Batch: B[G2469
Preparation: No Prep
Source Sample Name: 27EW-12_170721

SDG: 17-20121
Project: Alameda
Laboratory ID: B[G2469-DUP1
Lab Source ID: 1720121-13
Initial/Final: 25 ml / 25 ml
% Solids:

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION (mg/L)	C	DUPLICATE CONCENTRATION (mg/L)	C	RPD %	Q	METHOD
Total Sulfide	10	0.010610		ND				SM-4500SD

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM-4500SD

15-MW1_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2245
Laboratory ID: B[G2245-MS1
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1720121-01

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Total Sulfide	0.50000	ND	0.46750	93.5	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Total Sulfide	0.50000	0.46209	92.4	1.16	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

SM-4500SD

27EW-12_170721

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda
Matrix: Water
Batch: B[G2469
Laboratory ID: B[G2469-MS1
Preparation: No Prep
Initial/Final: 25 ml / 25 ml
Source Sample Number: 1720121-13

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC. #	QC LIMITS REC.
Total Sulfide	0.50000	ND	0.46567	93.1	80 - 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Total Sulfide	0.50000	0.45925	91.8	1.39	10	80 - 120

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
SM-4500SD

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[G2245	Laboratory ID:	B[G2245-BS1
Preparation:	No Prep	Initial/Final:	25 ml / 25 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Total Sulfide	0.50000	0.49097	98.2	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

LCS RECOVERY
SM-4500SD

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Matrix:	Water		
Batch:	B[G2469	Laboratory ID:	B[G2469-BS1
Preparation:	No Prep	Initial/Final:	25 ml / 25 ml

COMPOUND	SPIKE ADDED (mg/L)	LCS CONCENTRATION (mg/L)	LCS % REC. #	QC LIMITS REC.
Total Sulfide	0.50000	0.49938	99.9	90 - 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

SM-4500SD

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1713328	Instrument:	SPEC06
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1713328-ICV1		07/26/17 09:00
Initial Cal Blank	1713328-ICB1		07/26/17 09:00
LCS	B[G2245-BS1		07/26/17 09:00
Blank	B[G2245-BLK1		07/26/17 09:00
Calibration Check	1713328-CCV1		07/26/17 09:00
Calibration Blank	1713328-CCB1		07/26/17 09:00
15-MW1_170721	1720121-01		07/26/17 09:00
15-MW1_170721	B[G2245-DUP1		07/26/17 09:00
15-MW1_170721	B[G2245-MS1		07/26/17 09:00
15-MW1_170721	B[G2245-MSD1		07/26/17 09:00
Calibration Check	1713328-CCV2		07/26/17 09:00
Calibration Blank	1713328-CCB2		07/26/17 09:00
15-MW3_170721	1720121-03		07/26/17 09:00
27MW03_170721	1720121-06		07/26/17 09:00
27MW04_170721	1720121-07		07/26/17 09:00
27MW10_170721	1720121-08		07/26/17 09:00
27MW11_170721	1720121-09		07/26/17 09:00
27MW12_170721	1720121-10		07/26/17 09:00
Calibration Check	1713328-CCV3		07/26/17 09:00
Calibration Blank	1713328-CCB3		07/26/17 09:00

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

ANALYSIS BATCH (SEQUENCE) SUMMARY

SM-4500SD

Laboratory:	BC Laboratories	SDG:	17-20121
Client:	AMEC Environmental & Infrastructure- $AMCN	Project:	Alameda
Sequence:	1713618	Instrument:	SPEC06
Matrix:	Water	Calibration:	UNASSIGNED

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	1713618-ICV1		07/28/17 12:45
Initial Cal Blank	1713618-ICB1		07/28/17 12:45
LCS	B[G2469-BS1		07/28/17 12:45
Blank	B[G2469-BLK1		07/28/17 12:45
27EW-12_170721	1720121-13		07/28/17 12:45
27EW-12_170721	B[G2469-DUP1		07/28/17 12:45
27EW-12_170721	B[G2469-MS1		07/28/17 12:45
27EW-12_170721	B[G2469-MSD1		07/28/17 12:45
M14-15_170721	1720121-11		07/28/17 12:45
M14-16_170721	1720121-12		07/28/17 12:45
27MW13_170721	1720121-14		07/28/17 12:45
Calibration Check	1713618-CCV1		07/28/17 12:45
Calibration Blank	1713618-CCB1		07/28/17 12:45
Calibration Check	1713618-CCV2		07/28/17 12:45
Calibration Blank	1713618-CCB2		07/28/17 12:45
Calibration Check	1713618-CCV3		07/28/17 12:45
Calibration Blank	1713618-CCB3		07/28/17 12:45

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BLANKS
SM-4500SD

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: SPEC06
Project: Alameda
Sequence: 1713328
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1713328-CCB1	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD
1713328-CCB2	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD
1713328-CCB3	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD
1713328-ICB1	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

BLANKS
SM-4500SD

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: SPEC06
Project: Alameda
Sequence: 1713618
Calibration: UNASSIGNED

Lab Sample ID	Analyte	Found	DL	LOD	LOQ	Units	C	Method
1713618-CCB1	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD
1713618-CCB2	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD
1713618-CCB3	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD
1713618-ICB1	Total Sulfide	0.0000	0.050		0.10	mg/L	U	SM-4500SD

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL AND CONTINUING CALIBRATION CHECK

SM-4500SD

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: SPEC06
Control Limt: +/- %

SDG: 17-20121
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1713328

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1713328-CCV1	Total Sulfide	0.50000	0.49097	98.2	mg/L	SM-4500SD
1713328-CCV2	Total Sulfide	0.50000	0.49097	98.2	mg/L	SM-4500SD
1713328-CCV3	Total Sulfide	0.50000	0.49097	98.2	mg/L	SM-4500SD
1713328-ICV1	Total Sulfide	0.50000	0.50722	101	mg/L	SM-4500SD

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

INITIAL AND CONTINUING CALIBRATION CHECK

SM-4500SD

Laboratory: BC Laboratories
Client: AMEC Environmental & Infrastructure- $AMCN
Instrument ID: SPEC06
Control Limt: +/- %

SDG: 17-20121
Project: Alameda
Calibration: UNASSIGNED
Sequence: 1713618

Lab Sample ID	Analyte	True	Found	%R	Units	Method
1713618-CCV1	Total Sulfide	0.50000	0.49938	99.9	mg/L	SM-4500SD
1713618-CCV2	Total Sulfide	0.50000	0.49938	99.9	mg/L	SM-4500SD
1713618-CCV3	Total Sulfide	0.50000	0.49938	99.9	mg/L	SM-4500SD
1713618-ICV1	Total Sulfide	0.50000	0.48814	97.6	mg/L	SM-4500SD

* Values outside of QC limits

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

HOLDING TIME SUMMARY
SM-4500SD

Laboratory: BC Laboratories
SDG: 17-20121
Client: AMEC Environmental & Infrastructure- $AMCN
Project: Alameda

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
15-MW1_170721	07/21/17 08:30	07/21/17 21:30	07/26/17 09:00	5.00	7.00	07/26/17 09:00	5.00	7.00	
15-MW3_170721	07/21/17 09:40	07/21/17 21:30	07/26/17 09:00	5.00	7.00	07/26/17 09:00	5.00	7.00	
27MW03_170721	07/21/17 09:20	07/21/17 21:30	07/26/17 09:00	5.00	7.00	07/26/17 09:00	5.00	7.00	
27MW04_170721	07/21/17 11:45	07/21/17 21:30	07/26/17 09:00	5.00	7.00	07/26/17 09:00	5.00	7.00	
27MW10_170721	07/21/17 10:26	07/21/17 21:30	07/26/17 09:00	5.00	7.00	07/26/17 09:00	5.00	7.00	
27MW11_170721	07/21/17 10:50	07/21/17 21:30	07/26/17 09:00	5.00	7.00	07/26/17 09:00	5.00	7.00	
27MW12_170721	07/21/17 11:35	07/21/17 21:30	07/26/17 09:00	5.00	7.00	07/26/17 09:00	5.00	7.00	
M14-15_170721	07/21/17 08:20	07/21/17 21:30	07/28/17 12:45	7.00	7.00	07/28/17 12:45	7.00	7.00	
M14-16_170721	07/21/17 09:15	07/21/17 21:30	07/28/17 12:45	7.00	7.00	07/28/17 12:45	7.00	7.00	
27EW-12_170721	07/21/17 12:56	07/21/17 21:30	07/28/17 12:45	7.00	7.00	07/28/17 12:45	7.00	7.00	
27MW13_170721	07/21/17 13:10	07/21/17 21:30	07/28/17 12:45	7.00	7.00	07/28/17 12:45	7.00	7.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument SPEC06

Raw Data - Batch Information

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G2245

BC Laboratories

Printed: 8/22/2017 1:10:14PM

Matrix: Water

Prepared using: Wet Chem - No Prep

(No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720029-05 U	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
1720029-11 N	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
1720121-01 U	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
1720121-03 I	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
1720121-06 H	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
1720121-07 H	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
1720121-08 H	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
1720121-09 H	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
1720121-10 H	iSM4500SDw Total Sulfide	7/26/2017 9:00AM	DIW	25	25					
B[G2245-BLK1	QC	7/26/2017 9:00AM	DIW	25	25					
B[G2245-BS1	QC	7/26/2017 9:00AM	DIW	25	25	7G06078		2500		
B[G2245-DUP1	QC	7/26/2017 9:00AM	DIW	25	25		1720121-01			
B[G2245-MS1	QC	7/26/2017 9:00AM	DIW	25	25	7G06078	1720121-01	2500		
B[G2245-MSD1	QC	7/26/2017 9:00AM	DIW	25	25	7G06078	1720121-01	2500		

Spike Mixes	Description	Solvent	Prepared	Expires
7G06078	SULFIDE 5.0 WORK	H2O	7/6/2017 by Daniel Wenceslao	1/8/2018

Laboratories, Inc.
Environmental Testing Laboratory Since 1949

PREPARATION BENCH SHEET

B[G2469

BC Laboratories

Printed: 8/22/2017 1:10:14PM

Matrix: Water | Prepared using: Wet Chem - No Prep | (No Surrogate)

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
1720121-11 I	iSM4500SDw Total Sulfide	7/28/2017 12:45PM	DIW	25	25					
1720121-12 I	iSM4500SDw Total Sulfide	7/28/2017 12:45PM	DIW	25	25					
1720121-13 I	iSM4500SDw Total Sulfide	7/28/2017 12:45PM	DIW	25	25					
1720121-14 H	iSM4500SDw Total Sulfide	7/28/2017 12:45PM	DIW	25	25					
1720122-03 U	iSM4500SDw Total Sulfide	7/28/2017 12:45PM	DIW	25	25					
1720122-04 N	iSM4500SDw Total Sulfide	7/28/2017 12:45PM	DIW	25	25					
1720122-05 K	iSM4500SDw Total Sulfide	7/28/2017 12:45PM	DIW	25	25					
1720122-06 K	iSM4500SDw Total Sulfide	7/28/2017 12:45PM	DIW	25	25					
1720267-01 G	iSM4500SDw Total Sulfide	7/28/2017 12:45PM	DIW	25	25					
1720267-02 G	iSM4500SDw Total Sulfide	7/28/2017 12:45PM	DIW	25	25					
B[G2469-BLK1	QC	7/28/2017 12:45PM	DIW	25	25					
B[G2469-BS1	QC	7/28/2017 12:45PM	DIW	25	25	7G06078		2500		
B[G2469-DUP1	QC	7/28/2017 12:45PM	DIW	25	25		1720121-13			
B[G2469-MS1	QC	7/28/2017 12:45PM	DIW	25	25	7G06078	1720121-13	2500		
B[G2469-MSD1	QC	7/28/2017 12:45PM	DIW	25	25	7G06078	1720121-13	2500		

Spike Mixes	Description	Solvent	Prepared	Expires
7G06078	SULFIDE 5.0 WORK	H2O	7/6/2017 by Daniel Wenceslao	1/8/2018

Raw Data - Sequence Information

ANALYSIS SEQUENCE

1713328

Instrument: SPEC06
Calibration ID:
Sequence Date: 07/26/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713328-ICV1	QC		1		7G07020		
1713328-ICB1	QC		2				
B[G2243-BS1	QC		3				
B[G2245-BS1	QC		4				
B[G2243-BLK1	QC		5				
B[G2245-BLK1	QC		6				
1720018-08	iSM4500SDw Total Sulfide	U	7				
B[G2243-DUP1	QC		8				
B[G2243-MS1	QC		9				
B[G2243-MSD1	QC		10				
1720018-01	iSM4500SDw Total Sulfide	G	11				
1720018-02	iSM4500SDw Total Sulfide	G	12				
1720018-04	iSM4500SDw Total Sulfide	I	13				
1720018-05	iSM4500SDw Total Sulfide	I	14				
1713328-CCV1	QC		15		7G07021		
1713328-CCB1	QC		16				
1720018-06	iSM4500SDw Total Sulfide	I	17				
1720018-07	iSM4500SDw Total Sulfide	I	18				
1720018-09	iSM4500SDw Total Sulfide	I	19				
1720018-10	iSM4500SDw Total Sulfide	I	20				
1720018-11	iSM4500SDw Total Sulfide	I	21				
1720121-01	iSM4500SDw Total Sulfide	U	22				
B[G2245-DUP1	QC		23				
B[G2245-MS1	QC		24				
B[G2245-MSD1	QC		25				
1720029-05	iSM4500SDw Total Sulfide	U	26				
1713328-CCV2	QC		27		7G07021		
1713328-CCB2	QC		28				
1720029-11	iSM4500SDw Total Sulfide	N	29				
1720121-03	iSM4500SDw Total Sulfide	I	30				
1720121-06	iSM4500SDw Total Sulfide	H	31				
1720121-07	iSM4500SDw Total Sulfide	H	32				
1720121-08	iSM4500SDw Total Sulfide	H	33				
1720121-09	iSM4500SDw Total Sulfide	H	34				
1720121-10	iSM4500SDw Total Sulfide	H	35				
1713328-CCV3	QC		36		7G07021		
1713328-CCB3	QC		37				

Data Review Report

Sequence and Sample #	Sample Name	Batch #	Analysed
1713328			
1	1713328-ICV1	1713328	7/26/2017 9:00:00AM
2	1713328-ICB1	1713328	7/26/2017 9:00:00AM
3	B[G2243-BS1	B[G2243	7/26/2017 9:00:00AM
4	B[G2245-BS1	B[G2245	7/26/2017 9:00:00AM
5	B[G2243-BLK1	B[G2243	7/26/2017 9:00:00AM
6	B[G2245-BLK1	B[G2245	7/26/2017 9:00:00AM
7	1720018-08	B[G2243	7/26/2017 9:00:00AM
8	B[G2243-DUP1	B[G2243	7/26/2017 9:00:00AM
9	B[G2243-MS1	B[G2243	7/26/2017 9:00:00AM
10	B[G2243-MSD1	B[G2243	7/26/2017 9:00:00AM
11	1720018-01	B[G2243	7/26/2017 9:00:00AM
12	1720018-02	B[G2243	7/26/2017 9:00:00AM
13	1720018-04	B[G2243	7/26/2017 9:00:00AM
14	1720018-05	B[G2243	7/26/2017 9:00:00AM
15	1713328-CCV1	1713328	7/26/2017 9:00:00AM
16	1713328-CCB1	1713328	7/26/2017 9:00:00AM
17	1720018-06	B[G2243	7/26/2017 9:00:00AM
18	1720018-07	B[G2243	7/26/2017 9:00:00AM
19	1720018-09	B[G2243	7/26/2017 9:00:00AM
20	1720018-10	B[G2243	7/26/2017 9:00:00AM
21	1720018-11	B[G2243	7/26/2017 9:00:00AM
22	1720121-01	B[G2245	7/26/2017 9:00:00AM
23	B[G2245-DUP1	B[G2245	7/26/2017 9:00:00AM
24	B[G2245-MS1	B[G2245	7/26/2017 9:00:00AM
25	B[G2245-MSD1	B[G2245	7/26/2017 9:00:00AM
26	1720029-05	B[G2245	7/26/2017 9:00:00AM
27	1713328-CCV2	1713328	7/26/2017 9:00:00AM
28	1713328-CCB2	1713328	7/26/2017 9:00:00AM
29	1720029-11	B[G2245	7/26/2017 9:00:00AM
30	1720121-03	B[G2245	7/26/2017 9:00:00AM
31	1720121-06	B[G2245	7/26/2017 9:00:00AM
32	1720121-07	B[G2245	7/26/2017 9:00:00AM
33	1720121-08	B[G2245	7/26/2017 9:00:00AM
34	1720121-09	B[G2245	7/26/2017 9:00:00AM
35	1720121-10	B[G2245	7/26/2017 9:00:00AM
36	1713328-CCV3	1713328	7/26/2017 9:00:00AM
37	1713328-CCB3	1713328	7/26/2017 9:00:00AM

7/28/17 8:23 Sequence #: 1713328	Result	Qualifier	Units	Dil	MDL	MRL	Rpt	Recovery & RPD
Sequence # 1713328								
Sample ID: 1713328-ICV1	Sequence Sample # 1							
SM4500SDw Total Sulfide	0.50722		mg/L	1.00			Y	101
Sample ID: 1713328-ICB1	Sequence Sample # 2							
SM4500SDw Total Sulfide	0.0000		mg/L	1.00			Y	
Sample ID: B[G2243-BS1	Sequence Sample # 3		Batch # B[G2243					
SM4500SDw Total Sulfide	0.49097		mg/L	1.00	0.050	0.10	Y	98.2
Sample ID: B[G2245-BS1	Sequence Sample # 4		Batch # B[G2245					
SM4500SDw Total Sulfide	0.49097		mg/L	1.00	0.050	0.10	Y	98.2
Sample ID: B[G2243-BLK1	Sequence Sample # 5		Batch # B[G2243					
SM4500SDw Total Sulfide	0.0000		mg/L	1.00	0.050	0.10	Y	
Sample ID: B[G2245-BLK1	Sequence Sample # 6		Batch # B[G2245					
SM4500SDw Total Sulfide	0.0000		mg/L	1.00	0.050	0.10	Y	

Sequence #: 1713328	Result	Qualifier	Units	Dil	MDL	MRL	Rpt	Recovery & RPD	
Sample ID: 1720018-08	Sequence Sample # 7		Batch # B[G2243						
iSM4500SDw Total Sulfide	0.026		mg/L	1.00	0.050	0.10	Y		
Sample ID: B[G2243-DUP1	Sequence Sample # 8		Batch # B[G2243		Source ID: 1720018-08				
iSM4500SDw Total Sulfide	0.027270		mg/L	1.00	0.050	0.10	Y		
Sample ID: B[G2243-MS1	Sequence Sample # 9		Batch # B[G2243		Source ID: 1720018-08				
iSM4500SDw Total Sulfide	0.40071		mg/L	1.00	0.050	0.10	Y	80.1	
Sample ID: B[G2243-MSD1	Sequence Sample # 10		Batch # B[G2243		Source ID: 1720018-08				
iSM4500SDw Total Sulfide	0.40432		mg/L	1.00	0.050	0.10	Y	80.9	0.897
Sample ID: 1720018-01	Sequence Sample # 11		Batch # B[G2243						
SM4500SDw Total Sulfide	0.023		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720018-02	Sequence Sample # 12		Batch # B[G2243						
SM4500SDw Total Sulfide	0.0030		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720018-04	Sequence Sample # 13		Batch # B[G2243						
SM4500SDw Total Sulfide	0.0076		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720018-05	Sequence Sample # 14		Batch # B[G2243						
SM4500SDw Total Sulfide	0.0061		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1713328-CCV1	Sequence Sample # 15								
SM4500SDw Total Sulfide	0.49097		mg/L	1.00			Y	98.2	
Sample ID: 1713328-CCB1	Sequence Sample # 16								
SM4500SDw Total Sulfide	0.0000		mg/L	1.00			Y		
Sample ID: 1720018-06	Sequence Sample # 17		Batch # B[G2243						
SM4500SDw Total Sulfide	0.0076		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720018-07	Sequence Sample # 18		Batch # B[G2243						
SM4500SDw Total Sulfide	0.0091		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720018-09	Sequence Sample # 19		Batch # B[G2243						
SM4500SDw Total Sulfide	0.017		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720018-10	Sequence Sample # 20		Batch # B[G2243						
SM4500SDw Total Sulfide	0.0		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720018-11	Sequence Sample # 21		Batch # B[G2243						
SM4500SDw Total Sulfide	0.032		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720121-01	Sequence Sample # 22		Batch # B[G2245						
SM4500SDw Total Sulfide	0.0061		mg/L	1.00	0.050	0.10	Y		
Sample ID: B[G2245-DUP1	Sequence Sample # 23		Batch # B[G2245		Source ID: 1720121-01				
SM4500SDw Total Sulfide	0.0045500		mg/L	1.00	0.050	0.10	Y		
Sample ID: B[G2245-MS1	Sequence Sample # 24		Batch # B[G2245		Source ID: 1720121-01				
SM4500SDw Total Sulfide	0.46750		mg/L	1.00	0.050	0.10	Y	93.5	
Sample ID: B[G2245-MSD1	Sequence Sample # 25		Batch # B[G2245		Source ID: 1720121-01				
SM4500SDw Total Sulfide	0.46209		mg/L	1.00	0.050	0.10	Y	92.4	1.16
Sample ID: 1720029-05	Sequence Sample # 26		Batch # B[G2245						
SM4500SDw Total Sulfide	0.0		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1713328-CCV2	Sequence Sample # 27								
SM4500SDw Total Sulfide	0.49097		mg/L	1.00			Y	98.2	
Sample ID: 1713328-CCB2	Sequence Sample # 28								
SM4500SDw Total Sulfide	0.0000		mg/L	1.00			Y		
Sample ID: 1720029-11	Sequence Sample # 29		Batch # B[G2245						
SM4500SDw Total Sulfide	0.033		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720121-03	Sequence Sample # 30		Batch # B[G2245						
SM4500SDw Total Sulfide	0.0061		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720121-06	Sequence Sample # 31		Batch # B[G2245						
SM4500SDw Total Sulfide	0.0076		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720121-07	Sequence Sample # 32		Batch # B[G2245						
SM4500SDw Total Sulfide	0.0061		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720121-08	Sequence Sample # 33		Batch # B[G2245						
SM4500SDw Total Sulfide	0.021		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720121-09	Sequence Sample # 34		Batch # B[G2245						
SM4500SDw Total Sulfide	0.79	A07	mg/L	10.00	0.50	1.0	Y		

Sequence #: 1713328	Result	Qualifier	Units	Dil	MDL	MRL	Rpt	Recovery & RPD
Sample ID: 1720121-10	Sequence Sample # 35		Batch # B[G2245					
iSM4500SDw Total Sulfide	0.098	A07	mg/L	5.00	0.25	0.50	Y	
Sample ID: 1713328-CCV3	Sequence Sample # 36							
iSM4500SDw Total Sulfide	0.49097		mg/L	1.00			Y	98.2
Sample ID: 1713328-CCB3	Sequence Sample # 37							
iSM4500SDw Total Sulfide	0.0000		mg/L	1.00			Y	

Recovery and RPD Out of Control Report

Sample ID	Analyte	Rpt	Qual.	% Rec	RPD	Limits

Hold Time Out of Control Report

Analyte	Sample ID	Sample Date	Prep Date	Prep Expires	Date Analyzed	Analysis Exp.	SO5 Fl

Method ID: i376.2 Sulfide
Instrument: SPEC06
Run Date: 07/26/2017
Run Number: 1
Full XLS File Name: W:\EDS\bcElm\ChartReader\Sulfide\SULFIDE 07-26-17 #01.xls

Mult Factor: 1
IR Blank Subtraction: 0
Digits Past Decimal (IR): 5
Use PTP Below Std1: Y
Use PTP Below Std2: N

Standards

Conc	Reading
0	0.000
0.05	0.033
0.1	0.059
0.2	0.122
0.5	0.276
1.0	0.559

Correlation Coefficient: 0.999787076129343

Lab Number	Chart Reading	Instrument Reading	Dilution	Run Date	Run Time	Instrument	Analyst
1713328-ICV1	0.285	0.50722	1	07/26/2017	09:00	SPEC06	DIW
1713328-ICB1	0.000	0.00000	1	07/26/2017	09:00	SPEC06	DIW
B[G2243-BS1	0.276	0.49097	1	07/26/2017	09:00	SPEC06	DIW
B[G2245-BS1	0.276	0.49097	1	07/26/2017	09:00	SPEC06	DIW
B[G2243-BLK1	0.000	0.00000	1	07/26/2017	09:00	SPEC06	DIW
B[G2245-BLK1	0.000	0.00000	1	07/26/2017	09:00	SPEC06	DIW
1720018-08	0.017	0.02576	1	07/26/2017	09:00	SPEC06	DIW
B[G2243-DUP1	0.018	0.02727	1	07/26/2017	09:00	SPEC06	DIW
B[G2243-MS1	0.226	0.40071	1	07/26/2017	09:00	SPEC06	DIW
B[G2243-MSD1	0.228	0.40432	1	07/26/2017	09:00	SPEC06	DIW
1720018-01	0.015	0.02273	1	07/26/2017	09:00	SPEC06	DIW
1720018-02	0.002	0.00303	1	07/26/2017	09:00	SPEC06	DIW
1720018-04	0.005	0.00758	1	07/26/2017	09:00	SPEC06	DIW
1720018-05	0.004	0.00606	1	07/26/2017	09:00	SPEC06	DIW
1713328-CCV1	0.276	0.49097	1	07/26/2017	09:00	SPEC06	DIW
1713328-CCB1	0.000	0.00000	1	07/26/2017	09:00	SPEC06	DIW
1720018-06	0.005	0.00758	1	07/26/2017	09:00	SPEC06	DIW

Method ID: i376.2 Sulfide
Instrument: SPEC06
Run Date: 07/26/2017
Run Number: 1
Full XLS File Name: W:\EDS\bcElm\ChartReader\Sulfide\SULFIDE 07-26-17 #01.xls

Mult Factor: 1
IR Blank Subtraction: 0
Digits Past Decimal (IR): 5
Use PTP Below Std1: Y
Use PTP Below Std2: N

Lab Number	Chart Reading	Instrument Reading	Dilution	Run Date	Run Time	Instrument	Analyst
1720018-07	0.006	0.00909	1	07/26/2017	09:00	SPEC06	DIW
1720018-09	0.011	0.01667	1	07/26/2017	09:00	SPEC06	DIW
1720018-10	0.000	0.00000	1	07/26/2017	09:00	SPEC06	DIW
1720018-11	0.021	0.03182	1	07/26/2017	09:00	SPEC06	DIW
1720121-01	0.004	0.00606	1	07/26/2017	09:00	SPEC06	DIW
B[G2245-DUP1	0.003	0.00455	1	07/26/2017	09:00	SPEC06	DIW
B[G2245-MS1	0.263	0.46750	1	07/26/2017	09:00	SPEC06	DIW
B[G2245-MSD1	0.260	0.46209	1	07/26/2017	09:00	SPEC06	DIW
1720029-05	0.000	0.00000	1	07/26/2017	09:00	SPEC06	DIW
1713328-CCV2	0.276	0.49097	1	07/26/2017	09:00	SPEC06	DIW
1713328-CCB2	0.000	0.00000	1	07/26/2017	09:00	SPEC06	DIW
1720029-11	0.022	0.03333	1	07/26/2017	09:00	SPEC06	DIW
1720121-03	0.004	0.00606	1	07/26/2017	09:00	SPEC06	DIW
1720121-06	0.005	0.00758	1	07/26/2017	09:00	SPEC06	DIW
1720121-07	0.004	0.00606	1	07/26/2017	09:00	SPEC06	DIW
1720121-08	0.014	0.02121	1	07/26/2017	09:00	SPEC06	DIW
1720121-09	0.048	0.07936	10	07/26/2017	09:00	SPEC06	DIW
1720121-10	0.013	0.01970	5	07/26/2017	09:00	SPEC06	DIW
1713328-CCV3	0.276	0.49097	1	07/26/2017	09:00	SPEC06	DIW
1713328-CCB3	0.000	0.00000	1	07/26/2017	09:00	SPEC06	DIW

WET CHEMISTRY RUNLOG

BC LABORATORIES, INC.

Reveiwed by: Date :

Run ID # 01

☐ W-Hz-Sulfide-376.1

☐ W-Hz-Sulfide-376.2 Sulfide

CONC	RESPONSE	IDENTIFICATION #
0.05	0.033	S- 07/26/17 0.05
0.1	0.059	S- 0.1
0.2	0.122	S- 0.2
0.5	0.276	S- 0.5
1.0	0.559	S- 1.0

Analyte:	Sulfide	ml Spike:	2.5 mls
Method:	376.2	Conc Spike:	5 mg/L
Analyst:	DIW	ml Sample:	22.5 mls
Date:	07/26/17	Spike ID #:	S-070617 5-
Time:	09:00	BS1 ID #:	S- 5-
Corr Coef:	0.99978	ICV #:	S- 5-

Comments:

	Lab ID #	Dil	Abs/tit	Result	P/R		Lab ID #	Dil	Abs/tit	Result	P/R
1	ICV		0.285			21	Dup		0.003		
2	ICB		0.000			22	MS		0.263		
3	BS1		0.276			23	MSD		0.260		
4	BLK1		0.000			24	20029-5H ~~20018-11 I~~		0.162	0.000	✓
5	20018-8H		0.017		✓	25	CCV2		0.276		
6	Dup		0.018			26	CCB2		0.000		
7	MS		0.226			27	20029-11 N		0.220	0.022	✓
8	MSD		0.228			28	20121-3 I		0.004		✓
9	20018-1 G		0.015		✓	29	-6 H		0.005		✓
10	-2 G		0.058	0.002	✓	30	-7 H		0.004		✓
11	-4 I		0.005		✓	31	-8 H		0.014		✓
12	-5 I		0.088	0.004	✓	32	-9 H	B X10	0.059	0.048	✓
13	CCV1		0.276			33	-10 H	T X5	0.066	0.013	✓
14	CCB1		0.000			34	CCV3		0.276		
15	20018-6 I		0.005		✓	35	CCB3		0.000		
16	-7 I		0.006		✓	36	~~20018-~~ Blank Subtract				
17	-9 I		0.011		✓	37	20018-2		0.056		
18	-10 I	T	0.075	0.000	✓	38	-5		0.084		
19	-11 I		0.021		✓	39	-10		0.075		
20	20121-14		0.004		✓	40	20121-9	X10	0.011		

Batch # BEG 2243 Batch # BEG 2245 Sequence #

20121-10 X5 = 0.053

[S:\MyDOCS\WordPerfect\LAB_DOCS\LOGBOOKS\WCSLOG]

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

ANALYSIS SEQUENCE

1713618

Instrument: SPEC06
Calibration ID:
Sequence Date: 07/28/2017
Printed: 8/22/2017 1:10:14PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
1713618-ICV1	QC		1		7G07020		
1713618-ICB1	QC		2				
B[G2469-BS1	QC		3				
B[G2470-BS1	QC		4				
B[G2469-BLK1	QC		5				
B[G2470-BLK1	QC		6				
1720121-13	iSM4500SDw Total Sulfide	I	7				
B[G2469-DUP1	QC		8				
B[G2469-MS1	QC		9				
B[G2469-MSD1	QC		10				
1720121-11	iSM4500SDw Total Sulfide	I	11				
1720121-12	iSM4500SDw Total Sulfide	I	12				
1720121-14	iSM4500SDw Total Sulfide	H	13				
1720122-03	iSM4500SDw Total Sulfide	U	14				
1713618-CCV1	QC		15		7G07021		
1713618-CCB1	QC		16				
1720122-04	iSM4500SDw Total Sulfide	N	17				
1720122-05	iSM4500SDw Total Sulfide	K	18				
1720122-06	iSM4500SDw Total Sulfide	K	19				
1720267-01	iSM4500SDw Total Sulfide	G	20				
1720267-02	iSM4500SDw Total Sulfide	G	21				
1720267-08	iSM4500SDw Diss Sulfide	H	22				BatchQC
1720267-08	iSM4500SDw Total Sulfide	H	22				
B[G2470-DUP1	QC		23				
B[G2470-MS1	QC		24				
B[G2470-MSD1	QC		25				
1720267-03	iSM4500SDw Total Sulfide	G	26				
1713618-CCV2	QC		27		7G07021		
1713618-CCB2	QC		28				
1720267-04	iSM4500SDw Total Sulfide	I	29				
1720267-09	iSM4500SDw Total Sulfide	H	30				
1720267-10	iSM4500SDw Total Sulfide	H	31				
1720267-11	iSM4500SDw Total Sulfide	H	32				
1720309-01	iSM4500SDw Total Sulfide	E	33				
1720309-02	iSM4500SDw Total Sulfide	E	34				
1720179-02	iSM4500SDw Diss Sulfide	H	35				
1720315-01	iSM4500SDw Diss Sulfide	L	36				
1713618-CCV3	QC		37		7G07021		
1713618-CCB3	QC		38				

Data Review Report

Sequence and Sample #	Sample Name	Batch #	Analysed
1713618			
1	1713618-ICV1	1713618	7/28/2017 12:45:00PM
2	1713618-ICB1	1713618	7/28/2017 12:45:00PM
3	B[G2469-BS1	B[G2469	7/28/2017 12:45:00PM
4	B[G2470-BS1	B[G2470	7/28/2017 12:45:00PM
5	B[G2469-BLK1	B[G2469	7/28/2017 12:45:00PM
6	B[G2470-BLK1	B[G2470	7/28/2017 12:45:00PM
7	1720121-13	B[G2469	7/28/2017 12:45:00PM
8	B[G2469-DUP1	B[G2469	7/28/2017 12:45:00PM
9	B[G2469-MS1	B[G2469	7/28/2017 12:45:00PM
10	B[G2469-MSD1	B[G2469	7/28/2017 12:45:00PM
11	1720121-11	B[G2469	7/28/2017 12:45:00PM
12	1720121-12	B[G2469	7/28/2017 12:45:00PM
13	1720121-14	B[G2469	7/28/2017 12:45:00PM
14	1720122-03	B[G2469	7/28/2017 12:45:00PM
15	1713618-CCV1	1713618	7/28/2017 12:45:00PM
16	1713618-CCB1	1713618	7/28/2017 12:45:00PM
17	1720122-04	B[G2469	7/28/2017 12:45:00PM
18	1720122-05	B[G2469	7/28/2017 12:45:00PM
19	1720122-06	B[G2469	7/28/2017 12:45:00PM
20	1720267-01	B[G2469	7/28/2017 12:45:00PM
21	1720267-02	B[G2469	7/28/2017 12:45:00PM
22	1720267-08	B[G2470	7/28/2017 12:45:00PM
23	B[G2470-DUP1	B[G2470	7/28/2017 12:45:00PM
24	B[G2470-MS1	B[G2470	7/28/2017 12:45:00PM
25	B[G2470-MSD1	B[G2470	7/28/2017 12:45:00PM
26	1720267-03	B[G2470	7/28/2017 12:45:00PM
27	1713618-CCV2	1713618	7/28/2017 12:45:00PM
28	1713618-CCB2	1713618	7/28/2017 12:45:00PM
29	1720267-04	B[G2470	7/28/2017 12:45:00PM
30	1720267-09	B[G2470	7/28/2017 12:45:00PM
31	1720267-10	B[G2470	7/28/2017 12:45:00PM
32	1720267-11	B[G2470	7/28/2017 12:45:00PM
33	1720309-01	B[G2470	7/28/2017 12:45:00PM
34	1720309-02	B[G2470	7/28/2017 12:45:00PM
35	1720179-02	B[G2470	7/28/2017 12:45:00PM
36	1720315-01	B[G2470	7/28/2017 12:45:00PM
37	1713618-CCV3	1713618	7/28/2017 12:45:00PM
38	1713618-CCB3	1713618	7/28/2017 12:45:00PM

/2/17 9:13 Sequence #: 1713618	Result	Qualifier	Units	Dil	MDL	MRL	Rpt	Recovery & RPD
Sequence # 1713618								
ample ID: 1713618-ICV1	Sequence Sample # 1							
SM4500SDw Diss Sulfide	0.48814		mg/L	1.00			Y	97.6
SM4500SDw Total Sulfide	0.48814		mg/L	1.00			Y	97.6
ample ID: 1713618-ICB1	Sequence Sample # 2							
SM4500SDw Diss Sulfide	0.0000		mg/L	1.00			Y	
SM4500SDw Total Sulfide	0.0000		mg/L	1.00			Y	
ample ID: B[G2469-BS1	Sequence Sample # 3		Batch # B[G2469					
SM4500SDw Total Sulfide	0.49938		mg/L	1.00	0.050	0.10	Y	99.9
ample ID: B[G2470-BS1	Sequence Sample # 4		Batch # B[G2470					
SM4500SDw Diss Sulfide	0.49938		mg/L	1.00	0.050	0.10	Y	99.9
SM4500SDw Total Sulfide	0.49938		mg/L	1.00	0.050	0.10	Y	99.9

	Result	Qualifier	Units	Dil	MDL	MRL	Rpt	Recovery & RPD	
Sample ID: B[G2469-BLK1	Sequence Sample # 5		Batch # B[G2469						
SM4500SDw Total Sulfide	0.0000		mg/L	1.00	0.050	0.10	Y		
Sample ID: B[G2470-BLK1	Sequence Sample # 6		Batch # B[G2470						
SM4500SDw Diss Sulfide	0.0000		mg/L	1.00	0.050	0.10	Y		
SM4500SDw Total Sulfide	0.0000		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720121-13	Sequence Sample # 7		Batch # B[G2469						
SM4500SDw Total Sulfide	0.011		mg/L	1.00	0.050	0.10	Y		
Sample ID: B[G2469-DUP1	Sequence Sample # 8		Batch # B[G2469		Source ID: 1720121-13				
SM4500SDw Total Sulfide	0.0090900		mg/L	1.00	0.050	0.10	Y		
Sample ID: B[G2469-MS1	Sequence Sample # 9		Batch # B[G2469		Source ID: 1720121-13				
SM4500SDw Total Sulfide	0.46567		mg/L	1.00	0.050	0.10	Y	93.1	
Sample ID: B[G2469-MSD1	Sequence Sample # 10		Batch # B[G2469		Source ID: 1720121-13				
SM4500SDw Total Sulfide	0.45925		mg/L	1.00	0.050	0.10	Y	91.8	1.39
Sample ID: 1720121-11	Sequence Sample # 11		Batch # B[G2469						
SM4500SDw Total Sulfide	0.0030		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720121-12	Sequence Sample # 12		Batch # B[G2469						
SM4500SDw Total Sulfide	0.0030	A07	mg/L	2.00	0.10	0.20	Y		
Sample ID: 1720121-14	Sequence Sample # 13		Batch # B[G2469						
SM4500SDw Total Sulfide	0.0015		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720122-03	Sequence Sample # 14		Batch # B[G2469						
SM4500SDw Total Sulfide	0.73	A07	mg/L	20.00	1.0	2.0	Y		
Sample ID: 1713618-CCV1	Sequence Sample # 15								
SM4500SDw Diss Sulfide	0.49938		mg/L	1.00			Y	99.9	
SM4500SDw Total Sulfide	0.49938		mg/L	1.00			Y	99.9	
Sample ID: 1713618-CCB1	Sequence Sample # 16								
SM4500SDw Diss Sulfide	0.0000		mg/L	1.00			Y		
SM4500SDw Total Sulfide	0.0000		mg/L	1.00			Y		
Sample ID: 1720122-04	Sequence Sample # 17		Batch # B[G2469						
SM4500SDw Total Sulfide	0.0030		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720122-05	Sequence Sample # 18		Batch # B[G2469						
SM4500SDw Total Sulfide	0.030	A07	mg/L	2.00	0.10	0.20	Y		
Sample ID: 1720122-06	Sequence Sample # 19		Batch # B[G2469						
SM4500SDw Total Sulfide	0.0		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720267-01	Sequence Sample # 20		Batch # B[G2469						
SM4500SDw Total Sulfide	0.0	A07	mg/L	2.00	0.10	0.20	Y		
Sample ID: 1720267-02	Sequence Sample # 21		Batch # B[G2469						
SM4500SDw Total Sulfide	0.0030		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1720267-08	Sequence Sample # 22		Batch # B[G2470						
SM4500SDw Diss Sulfide	0.0061		mg/L	1.00	0.050	0.10	Y		
SM4500SDw Total Sulfide	0.0061		mg/L	1.00	0.050	0.10	Y		
Sample ID: B[G2470-DUP1	Sequence Sample # 23		Batch # B[G2470		Source ID: 1720267-08				
SM4500SDw Diss Sulfide	0.0060600		mg/L	1.00	0.050	0.10	Y		
SM4500SDw Total Sulfide	0.0060600		mg/L	1.00	0.050	0.10	Y		
Sample ID: B[G2470-MS1	Sequence Sample # 24		Batch # B[G2470		Source ID: 1720267-08				
SM4500SDw Diss Sulfide	0.42071		mg/L	1.00	0.050	0.10	Y	84.1	
SM4500SDw Total Sulfide	0.42071		mg/L	1.00	0.050	0.10	Y	84.1	
Sample ID: B[G2470-MSD1	Sequence Sample # 25		Batch # B[G2470		Source ID: 1720267-08				
SM4500SDw Diss Sulfide	0.42393		mg/L	1.00	0.050	0.10	Y	84.8	0.762
SM4500SDw Total Sulfide	0.42393		mg/L	1.00	0.050	0.10	Y	84.8	0.762
Sample ID: 1720267-03	Sequence Sample # 26		Batch # B[G2470						
SM4500SDw Total Sulfide	0.0		mg/L	1.00	0.050	0.10	Y		
Sample ID: 1713618-CCV2	Sequence Sample # 27								
SM4500SDw Diss Sulfide	0.49938		mg/L	1.00			Y	99.9	
SM4500SDw Total Sulfide	0.49938		mg/L	1.00			Y	99.9	
Sample ID: 1713618-CCB2	Sequence Sample # 28								
SM4500SDw Diss Sulfide	0.0000		mg/L	1.00			Y		

Sequence #: 1713618	Result	Qualifier	Units	Dil	MDL	MRL	Rpt	Recovery & RPD
Sample ID: 1713618-CCB2	Sequence Sample # 28							
iSM4500SDw Total Sulfide	0.0000		mg/L	1.00			Y	
Sample ID: 1720267-04	Sequence Sample # 29		Batch # B[G2470					
iSM4500SDw Total Sulfide	0.021		mg/L	1.00	0.050	0.10	Y	
Sample ID: 1720267-09	Sequence Sample # 30		Batch # B[G2470					
iSM4500SDw Total Sulfide	0.0030		mg/L	1.00	0.050	0.10	Y	
Sample ID: 1720267-10	Sequence Sample # 31		Batch # B[G2470					
iSM4500SDw Total Sulfide	0.0030		mg/L	1.00	0.050	0.10	Y	
Sample ID: 1720267-11	Sequence Sample # 32		Batch # B[G2470					
iSM4500SDw Total Sulfide	0.0091		mg/L	1.00	0.050	0.10	Y	
Sample ID: 1720309-01	Sequence Sample # 33		Batch # B[G2470					
iSM4500SDw Total Sulfide	0.021		mg/L	1.00	0.050	0.10	Y	
Sample ID: 1720309-02	Sequence Sample # 34		Batch # B[G2470					
iSM4500SDw Total Sulfide	0.0046		mg/L	1.00	0.050	0.10	Y	
Sample ID: 1720179-02	Sequence Sample # 35		Batch # B[G2470					
iSM4500SDw Diss Sulfide	0.018		mg/L	1.00	0.050	0.10	Y	
Sample ID: 1720315-01	Sequence Sample # 36		Batch # B[G2470					
iSM4500SDw Diss Sulfide	0.0015		mg/L	1.00	0.050	0.10	Y	
Sample ID: 1713618-CCV3	Sequence Sample # 37							
iSM4500SDw Diss Sulfide	0.49938		mg/L	1.00			Y	99.9
iSM4500SDw Total Sulfide	0.49938		mg/L	1.00			Y	99.9
Sample ID: 1713618-CCB3	Sequence Sample # 38							
iSM4500SDw Diss Sulfide	0.0000		mg/L	1.00			Y	
iSM4500SDw Total Sulfide	0.0000		mg/L	1.00			Y	

Recovery and RPD Out of Control Report

Sample ID	Analyte	Rpt	Qual.	% Rec	RPD	Limits

Hold Time Out of Control Report

Analyte	Sample ID	Sample Date	Prep Date	Prep Expires	Date Analyzed	Analysis Exp.	SO5 Fl

Method ID: i376.2 Sulfide
Instrument: SPEC06
Run Date: 07/28/2017
Run Number: 1
Full XLS File Name: W:\EDS\bcElm\ChartReader\Sulfide\SULFIDE 07-28-17 #01.xls

Mult Factor: 1
IR Blank Subtraction: 0
Digits Past Decimal (IR): 5
Use PTP Below Std1: Y
Use PTP Below Std2: N

Standards

Conc	Reading
0	0.000
0.05	0.033
0.1	0.064
0.2	0.125
0.5	0.312
1.0	0.624

Correlation Coefficient: 0.999995138764031

Lab Number	Chart Reading	Instrument Reading	Dilution	Run Date	Run Time	Instrument	Analyst
1713618-ICV1	0.305	0.48814	1	07/28/2017	12:45	SPEC06	DIW
1713618-ICB1	0.000	0.00000	1	07/28/2017	12:45	SPEC06	DIW
B[G2469-BS1	0.312	0.49938	1	07/28/2017	12:45	SPEC06	DIW
B[G2470-BS1	0.312	0.49938	1	07/28/2017	12:45	SPEC06	DIW
B[G2469-BLK1	0.000	0.00000	1	07/28/2017	12:45	SPEC06	DIW
B[G2470-BLK1	0.000	0.00000	1	07/28/2017	12:45	SPEC06	DIW
1720121-13	0.007	0.01061	1	07/28/2017	12:45	SPEC06	DIW
B[G2469-DUP1	0.006	0.00909	1	07/28/2017	12:45	SPEC06	DIW
B[G2469-MS1	0.291	0.46567	1	07/28/2017	12:45	SPEC06	DIW
B[G2469-MSD1	0.287	0.45925	1	07/28/2017	12:45	SPEC06	DIW
1720121-11	0.002	0.00303	1	07/28/2017	12:45	SPEC06	DIW
1720121-12	0.001	0.00152	2	07/28/2017	12:45	SPEC06	DIW
1720121-14	0.001	0.00152	1	07/28/2017	12:45	SPEC06	DIW
1720122-03	0.024	0.03636	20	07/28/2017	12:45	SPEC06	DIW
1713618-CCV1	0.312	0.49938	1	07/28/2017	12:45	SPEC06	DIW
1713618-CCB1	0.000	0.00000	1	07/28/2017	12:45	SPEC06	DIW
1720122-04	0.002	0.00303	1	07/28/2017	12:45	SPEC06	DIW

Method ID: i376.2 Sulfide
Instrument: SPEC06
Run Date: 07/28/2017
Run Number: 1
Full XLS File Name: W:\EDS\bcElm\ChartReader\Sulfide\SULFIDE 07-28-17 #01.xls

Mult Factor: 1
IR Blank Subtraction: 0
Digits Past Decimal (IR): 5
Use PTP Below Std1: Y
Use PTP Below Std2: N

Lab Number	Chart Reading	Instrument Reading	Dilution	Run Date	Run Time	Instrument	Analyst
1720122-05	0.010	0.01515	2	07/28/2017	12:45	SPEC06	DIW
1720122-06	0.000	0.00000	1	07/28/2017	12:45	SPEC06	DIW
1720267-01	0.000	0.00000	2	07/28/2017	12:45	SPEC06	DIW
1720267-02	0.002	0.00303	1	07/28/2017	12:45	SPEC06	DIW
1720267-08	0.004	0.00606	1	07/28/2017	12:45	SPEC06	DIW
B[G2470-DUP1	0.004	0.00606	1	07/28/2017	12:45	SPEC06	DIW
B[G2470-MS1	0.263	0.42071	1	07/28/2017	12:45	SPEC06	DIW
B[G2470-MSD1	0.265	0.42393	1	07/28/2017	12:45	SPEC06	DIW
1720267-03	0.000	0.00000	1	07/28/2017	12:45	SPEC06	DIW
1713618-CCV2	0.312	0.49938	1	07/28/2017	12:45	SPEC06	DIW
1713618-CCB2	0.000	0.00000	1	07/28/2017	12:45	SPEC06	DIW
1720267-04	0.014	0.02121	1	07/28/2017	12:45	SPEC06	DIW
1720267-09	0.002	0.00303	1	07/28/2017	12:45	SPEC06	DIW
1720267-10	0.002	0.00303	1	07/28/2017	12:45	SPEC06	DIW
1720267-11	0.006	0.00909	1	07/28/2017	12:45	SPEC06	DIW
1720309-01	0.014	0.02121	1	07/28/2017	12:45	SPEC06	DIW
1720309-02	0.003	0.00455	1	07/28/2017	12:45	SPEC06	DIW
1720179-02	0.012	0.01818	1	07/28/2017	12:45	SPEC06	DIW
1720315-01	0.001	0.00152	1	07/28/2017	12:45	SPEC06	DIW
1713618-CCV3	0.312	0.49938	1	07/28/2017	12:45	SPEC06	DIW
1713618-CCB3	0.000	0.00000	1	07/28/2017	12:45	SPEC06	DIW

WET CHEMISTRY RUNLOG

BC LABORATORIES, INC.

Reveiwed by: Date :

Run ID # 01

☐ W-Hz-Sulfide-376.1

☐ W-Hz-Sulfide-376.2 Sulfide

CONC	RESPONSE	IDENTIFICATION #
0.05	0.033	S- 072817 0.05
0.1	0.064	S- 0.1
0.2	0.125	S- 0.2
0.5	0.312	S- 0.5
1.0	0.624	S- 1.0

Analyte:	Sulfide	ml Spike:	2.5 mls
Method:	376.2	Conc Spike:	5 mg/L
Analyst:	DIW	ml Sample:	22.5 mls
Date:	07/28/17	Spike ID #:	S- 070617 5-
Time:	12:45	BS1 ID #:	S- 5-
Corr Coef:	0.99999	ICV #:	S- 5-

Comments:

	Lab ID #	Dil	Abs/tit	Result	P/R		Lab ID #	Dil	Abs/tit	Result	P/R
1	ICV		0.305			21	Dup		0.004		
2	ICB		0.000			22	MS		0.263		
3	BS1		0.312			23	MSD		0.265		
4	BLK1		0.000			24	20267-3 G		0.089	0.000	✓
5	20121-13 I		0.007		✓	25	CCV2		0.312		
6	Dup.		0.006			26	CCB2		0.000		
7	MS		0.291			27	20267-4 I		0.014		✓
8	MSD		0.287			28	-9 H		0.002		✓
9	20121-11 I	T	0.031	0.002	✓	29	-10 H		0.002		✓
10	-12 I	T X2	0.028	0.001	✓	30	-11 H	T	0.039	0.006	✓
11	-14 H		0.001		✓	31	20309-1 E		0.014		✓
12	20122-3 N	T X20	0.148	0.024	✓	32	-2 E		0.003		✓
13	CCV1		0.312			33	D20179-2 H		0.012		✓
14	CCB1		0.000			34	D20315-1 L	T	0.036	0.001	✓
15	20122-4 N		0.027	0.002	✓	35	CCV3		0.312		
16	-5 K	T X2	0.064	0.010	✓	36	CCB3		0.000		
17	-6 K		0.000		✓	37	Blank Subtract				
18	20267-1 G	X2	0.045	0.000	✓	38	20121-11		0.029		
19	-2 G		0.002		✓	39	-12	X2	0.027		
20	20267-8 H		0.004		✓	40	20122-3	X20	0.124		

Batch # BIG2469 Batch # BIG2470 Sequence # 1713618

20122-4 = 0.025
-5 X2 = 0.054
20267-1 X2 = 0.046

20267-3 = 0.089
-11 = 0.033
20315-1 = 0.035

AMEC Environmental & Infrastructure-
9210 Sky Park Court #200
San Diego, CA 92123

Reported: 8/22/2017 1:10:14PM
Project: Alameda
Project Number: 5023146096
Project Manager: Kevin Olness

Notes and Definitions

B	Blank contamination. The analyte is greater than 1/2 the PQL/LOQ/CRQL in the associated method blank.
D	The reported value is from a dilution.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration.
J	The reported value is an estimated value. Results are between the MDL and PQL/LOQ/CRQL.
U	The analyte was not detected and is reported as less than the LOD/MDL or as defined by the client.