

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - email spokane@anateklabs.com

Client: Cardno - Hawaii
Address: 737 Bishop St., Ste. 3050
Honolulu, HI 96813
Attn: Benjamin Berridge

Work Order: WDB0365
Project: ADC Water Quality Monitoring
Reported: 4/2/2023 21:36

Case Narrative

<u>Laboratory ID</u>	<u>Sample Name</u>
WDB0365-01	DW-2
WDB0365-02	DW-3
WDB0365-03	D-2
WDB0365-04	D-3
WDB0365-05	D-4
WDB0365-06	D-5
WDB0365-07	DW-1/WW-1
WDB0365-08	WW-2
WDB0365-09	U-3/WW-4
WDB0365-10	U-2/WW-5 WET
WDB0365-11	WW-6
WDB0365-12	WW-3
WDB0365-13	E-2
WDB0365-14	E-1
WDB0365-15	E-1 DUP

QA/QC Checks

<u>Parameters</u>	<u>Yes / No</u>	<u>Exceptions / Deviations</u>
Sample Holding Time Valid?	Y	NA
Surrogate Recoveries Valid?	Y	NA
QC Sample(s) Recoveries Valid?	Y	NA
Method Blank(s) Valid?	Y	NA
Comments	N	See Comments Section

1. Holding Time Requirements

No problems encountered.

2. Calibration Requirements

No problems encountered.

3. Surrogate Recovery Requirements

No problems encountered.

4. QC Sample (LCS/MS/MSD) Recovery Requirements

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No problems encountered.

5. Method Blank Requirements

The method blanks were non-detect for all analytes. No problems encountered.

6. Internal Standard(s) Response Requirements

No problems encountered

7. Comments

**I certify that this data package is in compliance with the terms and conditions of the contract.
Release of the data contained in this data package has been authorized by the Laboratory
Manager or his or her designee.**

Kathleen A. Sattler, Lab Manager

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Analytical Results Report

Sample Location: DW-2
Lab/Sample Number: WDB0365-01 Collect Date: 02/04/23 18:16
Date Received: 02/08/23 11:00 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00212	mg/L	0.000540	0.00100	2/15/23 17:54	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 12:51	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0526	mg/L	0.0526	0.0809	2/19/23 21:54	taz	NWTPH-HCID	
Gasoline	0.162	mg/L	0.162	0.404	2/19/23 21:54	taz	NWTPH-HCID	
Lube Oil	<0.0465	mg/L	0.0465	0.0809	2/19/23 21:54	taz	NWTPH-HCID	
Mineral Oil	<0.162	mg/L	0.162	0.404	2/19/23 21:54	taz	NWTPH-HCID	
<i>Surrogate: n-Hexacosane</i>	<i>91.6%</i>		<i>50-150</i>		<i>2/19/23 21:54</i>	<i>taz</i>	<i>NWTPH-HCID</i>	

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Analytical Results Report

(Continued)

Sample Location: DW-3
Lab/Sample Number: WDB0365-02 Collect Date: 02/04/23 18:39
Date Received: 02/08/23 11:00 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00120	mg/L	0.000540	0.00100	2/15/23 17:56	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 12:53	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0500	mg/L	0.0500	0.0769	2/19/23 22:29	taz	NWTPH-HCID	
Gasoline	<0.154	mg/L	0.154	0.385	2/19/23 22:29	taz	NWTPH-HCID	
Lube Oil	<0.0442	mg/L	0.0442	0.0769	2/19/23 22:29	taz	NWTPH-HCID	
Mineral Oil	<0.154	mg/L	0.154	0.385	2/19/23 22:29	taz	NWTPH-HCID	
<i>Surrogate: n-Hexacosane</i>	<i>89.0%</i>		<i>50-150</i>		<i>2/19/23 22:29</i>	<i>taz</i>	<i>NWTPH-HCID</i>	

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Analytical Results Report

(Continued)

Sample Location: D-2
Lab/Sample Number: WDB0365-03 Collect Date: 02/04/23 18:48
Date Received: 02/08/23 11:00 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.0191	mg/L	0.000540	0.00100	2/15/23 17:58	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 14:45	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0584	mg/L	0.0584	0.0898	2/19/23 23:03	taz	NWTPH-HCID	
Gasoline	<0.180	mg/L	0.180	0.449	2/19/23 23:03	taz	NWTPH-HCID	
Lube Oil	<0.0516	mg/L	0.0516	0.0898	2/19/23 23:03	taz	NWTPH-HCID	
Mineral Oil	<0.180	mg/L	0.180	0.449	2/19/23 23:03	taz	NWTPH-HCID	
<i>Surrogate: n-Hexacosane</i>	<i>84.9%</i>		<i>50-150</i>		<i>2/19/23 23:03</i>	<i>taz</i>	<i>NWTPH-HCID</i>	

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Analytical Results Report

(Continued)

Sample Location: D-3
Lab/Sample Number: WDB0365-04 Collect Date: 02/04/23 18:30
Date Received: 02/08/23 11:00 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00735	mg/L	0.000540	0.00100	2/15/23 18:01	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 14:48	JLG	EPA 245.1	
Semivolatiles								
Diesel	0.0610	mg/L	0.0507	0.0780	2/19/23 23:38	taz	NWTPH-HCID	J
Gasoline	<0.156	mg/L	0.156	0.390	2/19/23 23:38	taz	NWTPH-HCID	
Lube Oil	<0.0448	mg/L	0.0448	0.0780	2/19/23 23:38	taz	NWTPH-HCID	
Mineral Oil	<0.156	mg/L	0.156	0.390	2/19/23 23:38	taz	NWTPH-HCID	
<i>Surrogate: n-Hexacosane</i>	<i>91.9%</i>		<i>50-150</i>		<i>2/19/23 23:38</i>	<i>taz</i>	<i>NWTPH-HCID</i>	

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Analytical Results Report

(Continued)

Sample Location: D-4
Lab/Sample Number: WDB0365-05 Collect Date: 02/04/23 17:48
Date Received: 02/08/23 11:00 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00376	mg/L	0.000540	0.00100	2/15/23 18:03	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 14:50	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0502	mg/L	0.0502	0.0773	2/20/23 0:12	taz	NWTPH-HCID	
Gasoline	<0.155	mg/L	0.155	0.386	2/20/23 0:12	taz	NWTPH-HCID	
Lube Oil	<0.0444	mg/L	0.0444	0.0773	2/20/23 0:12	taz	NWTPH-HCID	
Mineral Oil	<0.155	mg/L	0.155	0.386	2/20/23 0:12	taz	NWTPH-HCID	
<i>Surrogate: n-Hexacosane</i>	<i>92.8%</i>		<i>50-150</i>		<i>2/20/23 0:12</i>	<i>taz</i>	<i>NWTPH-HCID</i>	

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Analytical Results Report

(Continued)

Sample Location: D-5
Lab/Sample Number: WDB0365-06 Collect Date: 02/04/23 17:59
Date Received: 02/08/23 11:00 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00260	mg/L	0.000540	0.00100	2/15/23 18:05	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 14:52	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0513	mg/L	0.0513	0.0790	2/20/23 0:47	taz	NWTPH-HCID	
Gasoline	<0.158	mg/L	0.158	0.395	2/20/23 0:47	taz	NWTPH-HCID	
Lube Oil	<0.0454	mg/L	0.0454	0.0790	2/20/23 0:47	taz	NWTPH-HCID	
Mineral Oil	<0.158	mg/L	0.158	0.395	2/20/23 0:47	taz	NWTPH-HCID	
<i>Surrogate: n-Hexacosane</i>	<i>86.7%</i>		<i>50-150</i>		<i>2/20/23 0:47</i>	<i>taz</i>	<i>NWTPH-HCID</i>	

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Analytical Results Report

(Continued)

Sample Location: DW-1/WW-1
 Lab/Sample Number: WDB0365-07 Collect Date: 02/04/23 16:00
 Date Received: 02/08/23 11:00 Collected By:
 Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	<0.000540	mg/L	0.000540	0.00100	2/15/23 18:08	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 13:05	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0539	mg/L	0.0539	0.0830	2/20/23 1:22	taz	NWTPH-HCID	
Gasoline	<0.166	mg/L	0.166	0.415	2/20/23 1:22	taz	NWTPH-HCID	
Lube Oil	<0.0477	mg/L	0.0477	0.0830	2/20/23 1:22	taz	NWTPH-HCID	
Mineral Oil	<0.166	mg/L	0.166	0.415	2/20/23 1:22	taz	NWTPH-HCID	
<i>Surrogate: n-Hexacosane</i>	<i>95.5%</i>		<i>50-150</i>		<i>2/20/23 1:22</i>	<i>taz</i>	<i>NWTPH-HCID</i>	

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Analytical Results Report

(Continued)

Sample Location: WW-2
Lab/Sample Number: WDB0365-08 Collect Date: 02/04/23 16:32
Date Received: 02/08/23 11:00 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00174	mg/L	0.000540	0.00100	2/15/23 18:10	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 13:13	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0484	mg/L	0.0484	0.0745	2/20/23 3:05	taz	NWTPH-HCID	
Gasoline	<0.149	mg/L	0.149	0.372	2/20/23 3:05	taz	NWTPH-HCID	
Lube Oil	<0.0428	mg/L	0.0428	0.0745	2/20/23 3:05	taz	NWTPH-HCID	
Mineral Oil	<0.149	mg/L	0.149	0.372	2/20/23 3:05	taz	NWTPH-HCID	
<i>Surrogate: n-Hexacosane</i>	<i>87.9%</i>		<i>50-150</i>		<i>2/20/23 3:05</i>	<i>taz</i>	<i>NWTPH-HCID</i>	

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Analytical Results Report

(Continued)

Sample Location: U-3/WW-4
Lab/Sample Number: WDB0365-09 Collect Date: 02/04/23 15:45
Date Received: 02/08/23 11:00 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	<0.000540	mg/L	0.000540	0.00100	2/15/23 18:12	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 13:15	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0501	mg/L	0.0501	0.0771	2/20/23 3:40	taz	NWTPH-HCID	
Gasoline	<0.154	mg/L	0.154	0.385	2/20/23 3:40	taz	NWTPH-HCID	
Lube Oil	<0.0443	mg/L	0.0443	0.0771	2/20/23 3:40	taz	NWTPH-HCID	
Mineral Oil	<0.154	mg/L	0.154	0.385	2/20/23 3:40	taz	NWTPH-HCID	
<i>Surrogate: n-Hexacosane</i>	<i>84.3%</i>		<i>50-150</i>		<i>2/20/23 3:40</i>	<i>taz</i>	<i>NWTPH-HCID</i>	

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Analytical Results Report

(Continued)

Sample Location: U-2/WW-5 WET
Lab/Sample Number: WDB0365-10 Collect Date: 02/04/23 16:10
Date Received: 02/08/23 11:00 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	<0.000540	mg/L	0.000540	0.00100	2/15/23 18:15	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 13:18	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0512	mg/L	0.0512	0.0787	2/20/23 4:15	taz	NWTPH-HCID	
Gasoline	<0.157	mg/L	0.157	0.394	2/20/23 4:15	taz	NWTPH-HCID	
Lube Oil	<0.0453	mg/L	0.0453	0.0787	2/20/23 4:15	taz	NWTPH-HCID	
Mineral Oil	<0.157	mg/L	0.157	0.394	2/20/23 4:15	taz	NWTPH-HCID	
<i>Surrogate: n-Hexacosane</i>	<i>84.2%</i>		<i>50-150</i>		<i>2/20/23 4:15</i>	<i>taz</i>	<i>NWTPH-HCID</i>	

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Analytical Results Report

(Continued)

Sample Location: WW-6
 Lab/Sample Number: WDB0365-11 Collect Date: 02/04/23 15:30
 Date Received: 02/08/23 11:00 Collected By:
 Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	<0.000540	mg/L	0.000540	0.00100	2/15/23 18:31	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 13:20	JLG	EPA 245.1	
Semivolatiles								
Diesel	<0.0498	mg/L	0.0498	0.0766	2/20/23 4:49	taz	NWTPH-HCID	
Gasoline	<0.153	mg/L	0.153	0.383	2/20/23 4:49	taz	NWTPH-HCID	
Lube Oil	<0.0441	mg/L	0.0441	0.0766	2/20/23 4:49	taz	NWTPH-HCID	
Mineral Oil	<0.153	mg/L	0.153	0.383	2/20/23 4:49	taz	NWTPH-HCID	
<i>Surrogate: n-Hexacosane</i>	96.9%		50-150		2/20/23 4:49	taz	NWTPH-HCID	

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Analytical Results Report

(Continued)

Sample Location: WW-3
 Lab/Sample Number: WDB0365-12 Collect Date: 02/04/23 17:07
 Date Received: 02/08/23 11:00 Collected By:
 Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	<0.000540	mg/L	0.000540	0.00100	2/15/23 18:38	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 15:00	JLG	EPA 245.1	
Semivolatiles								
AMPA	<50.0	ug/L	50.0	100	3/1/23 10:35	GPB	EPA 547	*
Glyphosate	<25.0	ug/L	25.0	50.0	3/1/23 10:35	GPB	EPA 547	*
Atrazine	<0.0500	ug/L	0.0500	0.100	2/14/23 0:35	MAH	EPA 625.1	*
Chlorpyrifos	<0.05	ug/L	0.0500	0.100	2/14/23 0:35	MAH	EPA 625.1	*
Metolachlor	<0.05	ug/L	0.0500	0.100	2/14/23 0:35	MAH	EPA 625.1	*

<i>Surrogate: Terphenyl-d14</i>	<i>78.8%</i>		<i>25-135</i>		<i>2/14/23 0:35</i>	<i>MAH</i>	<i>EPA 625.1</i>	
Diesel	0.0600	mg/L	0.0504	0.0775	2/20/23 5:24	taz	NWTPH-HCID	J
Gasoline	<0.155	mg/L	0.155	0.388	2/20/23 5:24	taz	NWTPH-HCID	
Lube Oil	<0.0446	mg/L	0.0446	0.0775	2/20/23 5:24	taz	NWTPH-HCID	
Mineral Oil	<0.155	mg/L	0.155	0.388	2/20/23 5:24	taz	NWTPH-HCID	

<i>Surrogate: n-Hexacosane</i>	<i>93.5%</i>		<i>50-150</i>		<i>2/20/23 5:24</i>	<i>taz</i>	<i>NWTPH-HCID</i>	

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Analytical Results Report

(Continued)

Sample Location: E-2
 Lab/Sample Number: WDB0365-13 Collect Date: 02/04/23 18:57
 Date Received: 02/08/23 11:00 Collected By:
 Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00969	mg/L	0.000540	0.00100	2/15/23 18:40	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 15:02	JLG	EPA 245.1	
Semivolatiles								
AMPA	<50.0	ug/L	50.0	100	3/1/23 10:42	GPB	EPA 547	*
Glyphosate	<25.0	ug/L	25.0	50.0	3/1/23 10:42	GPB	EPA 547	*
Atrazine	<0.0581	ug/L	0.0581	0.116	2/14/23 1:02	MAH	EPA 625.1	*
Chlorpyrifos	<0.0581	ug/L	0.0581	0.116	2/14/23 1:02	MAH	EPA 625.1	*
Metolachlor	<0.05	ug/L	0.0581	0.116	2/14/23 1:02	MAH	EPA 625.1	*

<i>Surrogate: Terphenyl-d14</i>	<i>85.1%</i>		<i>25-135</i>		<i>2/14/23 1:02</i>	<i>MAH</i>	<i>EPA 625.1</i>	
Diesel	0.0751	mg/L	0.0627	0.0965	2/20/23 5:58	taz	NWTPH-HCID	J
Gasoline	<0.193	mg/L	0.193	0.483	2/20/23 5:58	taz	NWTPH-HCID	
Lube Oil	<0.0555	mg/L	0.0555	0.0965	2/20/23 5:58	taz	NWTPH-HCID	
Mineral Oil	<0.193	mg/L	0.193	0.483	2/20/23 5:58	taz	NWTPH-HCID	

<i>Surrogate: n-Hexacosane</i>	<i>94.2%</i>		<i>50-150</i>		<i>2/20/23 5:58</i>	<i>taz</i>	<i>NWTPH-HCID</i>	

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Analytical Results Report

(Continued)

Sample Location: E-1
 Lab/Sample Number: WDB0365-14 Collect Date: 02/04/23 16:30
 Date Received: 02/08/23 11:00 Collected By:
 Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00111	mg/L	0.000540	0.00100	2/15/23 18:43	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 13:37	JLG	EPA 245.1	
Semivolatiles								
AMPA	<50.0	ug/L	50.0	100	3/1/23 10:48	GPB	EPA 547	*
Glyphosate	<25.0	ug/L	25.0	50.0	3/1/23 10:48	GPB	EPA 547	*
Atrazine	<0.0500	ug/L	0.0500	0.100	2/14/23 1:30	MAH	EPA 625.1	*
Chlorpyrifos	<0.05	ug/L	0.0500	0.100	2/14/23 1:30	MAH	EPA 625.1	*
Metolachlor	<0.05	ug/L	0.0500	0.100	2/14/23 1:30	MAH	EPA 625.1	*

<i>Surrogate: Terphenyl-d14</i>	<i>89.6%</i>		<i>25-135</i>		<i>2/14/23 1:30</i>	<i>MAH</i>	<i>EPA 625.1</i>	
Diesel	<0.0494	mg/L	0.0494	0.0760	2/20/23 6:33	taz	NWTPH-HCID	
Gasoline	<0.152	mg/L	0.152	0.380	2/20/23 6:33	taz	NWTPH-HCID	
Lube Oil	<0.0437	mg/L	0.0437	0.0760	2/20/23 6:33	taz	NWTPH-HCID	
Mineral Oil	<0.152	mg/L	0.152	0.380	2/20/23 6:33	taz	NWTPH-HCID	

<i>Surrogate: n-Hexacosane</i>	<i>102%</i>		<i>50-150</i>		<i>2/20/23 6:33</i>	<i>taz</i>	<i>NWTPH-HCID</i>	

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Analytical Results Report

(Continued)

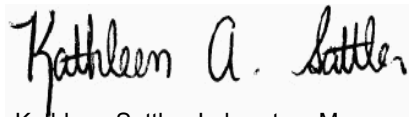
Sample Location: E-1 DUP
Lab/Sample Number: WDB0365-15 Collect Date: 02/04/23 16:30
Date Received: 02/08/23 11:00 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00107	mg/L	0.000540	0.00100	2/15/23 18:50	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 13:49	JLG	EPA 245.1	
Semivolatiles								
AMPA	<50.0	ug/L	50.0	100	3/1/23 10:55	GPB	EPA 547	*
Glyphosate	<25.0	ug/L	25.0	50.0	3/1/23 10:55	GPB	EPA 547	*
Atrazine	<0.0500	ug/L	0.0500	0.100	2/14/23 1:57	MAH	EPA 625.1	*
Chlorpyrifos	<0.05	ug/L	0.0500	0.100	2/14/23 1:57	MAH	EPA 625.1	*
Metolachlor	<0.05	ug/L	0.0500	0.100	2/14/23 1:57	MAH	EPA 625.1	*

<i>Surrogate: Terphenyl-d14</i>	<i>91.7%</i>		<i>25-135</i>		<i>2/14/23 1:57</i>	<i>MAH</i>	<i>EPA 625.1</i>	
Diesel	<0.0503	mg/L	0.0503	0.0774	2/20/23 8:17	taz	NWTPH-HCID	
Gasoline	<0.155	mg/L	0.155	0.387	2/20/23 8:17	taz	NWTPH-HCID	
Lube Oil	<0.0445	mg/L	0.0445	0.0774	2/20/23 8:17	taz	NWTPH-HCID	
Mineral Oil	<0.155	mg/L	0.155	0.387	2/20/23 8:17	taz	NWTPH-HCID	

<i>Surrogate: n-Hexacosane</i>	<i>85.1%</i>		<i>50-150</i>		<i>2/20/23 8:17</i>	<i>taz</i>	<i>NWTPH-HCID</i>	

Authorized Signature,



Kathleen Sattler, Laboratory Manager

- J The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
PQL Practical Quantitation Limit
ND Not Detected
MDL Method Detection Limit
Dry Sample results reported on a dry weight basis
* Not a state-certified analyte
RPD Relative Percent Difference
%REC Percent Recovery
Source Sample that was spiked or duplicated.

This report shall not be reproduced except in full, without the written approval of the laboratory
The results reported related only to the samples indicated.

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Certifications

Code	Description	Facility	Number
W WA DOE	Washington Department of Ecology	Anatek-Spokane, WA	C585
W FLDOH	Florida Department of Health (NELAC)	Anatek-Spokane, WA	E871099

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDB0335 - W Filtration										
Blank (BDB0335-BLK1)										Prepared & Analyzed: 2/10/2023
TSS	0.100			mg/L						
Blank (BDB0335-BLK2)										Prepared & Analyzed: 2/10/2023
TSS	-0.100			mg/L						
Blank (BDB0335-BLK3)										Prepared & Analyzed: 2/10/2023
TSS	0.00			mg/L						
Blank (BDB0335-BLK4)										Prepared & Analyzed: 2/10/2023
TSS	0.100			mg/L						
Blank (BDB0335-BLK5)										Prepared & Analyzed: 2/10/2023
TSS	0.00			mg/L						
Blank (BDB0335-BLK6)										Prepared & Analyzed: 2/10/2023
TSS	0.200			mg/L						
Blank (BDB0335-BLK7)										Prepared & Analyzed: 2/10/2023
TSS	0.00			mg/L						
Blank (BDB0335-BLK8)										Prepared & Analyzed: 2/10/2023
TSS	0.00			mg/L						
LCS (BDB0335-BS1)										Prepared & Analyzed: 2/10/2023
TSS	95.0			mg/L	100		95.0	90-110		
LCS (BDB0335-BS2)										Prepared & Analyzed: 2/10/2023
TSS	96.0			mg/L	100		96.0	90-110		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDB0335 - W Filtration (Continued)										
LCS (BDB0335-BS3)										
TSS	97.0			mg/L	100		97.0	90-110		
Prepared & Analyzed: 2/10/2023										
LCS (BDB0335-BS4)										
TSS	95.0			mg/L	100		95.0	90-110		
Prepared & Analyzed: 2/10/2023										
LCS (BDB0335-BS5)										
TSS	97.0			mg/L	100		97.0	90-110		
Prepared & Analyzed: 2/10/2023										
LCS (BDB0335-BS6)										
TSS	98.0			mg/L	100		98.0	90-110		
Prepared & Analyzed: 2/10/2023										
Duplicate (BDB0335-DUP4)										
TSS	0.00			mg/L		0.00				20
Source: WDB0235-02 Prepared & Analyzed: 2/10/2023										
Duplicate (BDB0335-DUP5)										
TSS	0.00			mg/L		0.00				20
Source: WDB0241-01 Prepared & Analyzed: 2/10/2023										
Duplicate (BDB0335-DUP6)										
TSS	0.00			mg/L		0.00				20
Source: WDB0362-02 Prepared & Analyzed: 2/10/2023										

Quality Control Data (Continued)

Metals by ICP-MS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDB0420 - W 3010 Digest										
Blank (BDB0420-BLK1)										
Arsenic	ND		0.00100	mg/L						
Prepared: 2/13/2023 Analyzed: 2/15/2023										
LCS (BDB0420-BS1)										
Arsenic	0.0526		0.00100	mg/L	0.0500		105	85-115		
Prepared: 2/13/2023 Analyzed: 2/15/2023										
Matrix Spike (BDB0420-MS1)										
Arsenic	0.0487		0.00100	mg/L	0.0500	<0.000540	97.4	70-130		
Prepared: 2/13/2023 Analyzed: 2/15/2023										
Matrix Spike (BDB0420-MS2)										
Arsenic	0.0549		0.00100	mg/L	0.0500	0.00111	108	70-130		
Prepared: 2/13/2023 Analyzed: 2/15/2023										
Matrix Spike Dup (BDB0420-MSD1)										
Arsenic	0.0525		0.00100	mg/L	0.0500	<0.000540	105	70-130	7.46	20
Prepared: 2/13/2023 Analyzed: 2/15/2023										
Matrix Spike Dup (BDB0420-MSD2)										
Arsenic	0.0552		0.00100	mg/L	0.0500	0.00111	108	70-130	0.392	20
Prepared: 2/13/2023 Analyzed: 2/15/2023										

Quality Control Data (Continued)

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Mercury

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDB0416 - W 245.1 Digest										
Blank (BDB0416-BLK1)										
Mercury	ND		0.100	ug/L						
					Prepared: 2/13/2023 Analyzed: 2/14/2023					
Blank (BDB0416-BLK2)										
Mercury	ND		0.100	ug/L						
					Prepared: 2/13/2023 Analyzed: 2/14/2023					
LCS (BDB0416-BS1)										
Mercury	2.14		0.100	ug/L	2.00		107	85-115		
					Prepared: 2/13/2023 Analyzed: 2/14/2023					
LCS (BDB0416-BS2)										
Mercury	1.97		0.100	ug/L	2.00		98.4	85-115		
					Prepared: 2/13/2023 Analyzed: 2/14/2023					
Matrix Spike (BDB0416-MS1)										
Mercury	1.95		0.100	ug/L	2.00	<0.0640	97.3	70-130		
					Source: WDB0365-11 Prepared: 2/13/2023 Analyzed: 2/14/2023					
Matrix Spike (BDB0416-MS2)										
Mercury	1.71		0.100	ug/L	2.00	<0.0640	85.4	70-130		
					Source: WDB0365-14 Prepared: 2/13/2023 Analyzed: 2/14/2023					
Matrix Spike (BDB0416-MS3)										
Mercury	2.02		0.100	ug/L	2.00	ND	101	70-130		
					Source: WDB0445-02 Prepared: 2/13/2023 Analyzed: 2/14/2023					
Matrix Spike Dup (BDB0416-MSD1)										
Mercury	1.91		0.100	ug/L	2.00	<0.0640	95.7	70-130	1.66	20
					Source: WDB0365-11 Prepared: 2/13/2023 Analyzed: 2/14/2023					
Matrix Spike Dup (BDB0416-MSD2)										
Mercury	1.79		0.100	ug/L	2.00	<0.0640	89.4	70-130	4.58	20
					Source: WDB0365-14 Prepared: 2/13/2023 Analyzed: 2/14/2023					
Matrix Spike Dup (BDB0416-MSD3)										
Mercury	2.01		0.100	ug/L	2.00	ND	101	70-130	0.496	20
					Source: WDB0445-02 Prepared: 2/13/2023 Analyzed: 2/14/2023					

Quality Control Data (Continued)

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDB0426 - SVOC Water										
Blank (BDB0426-BLK1)										
Metolachlor	ND		0.100	ug/L						
Chlorpyrifos	ND		0.100	ug/L						
Atrazine	ND		0.100	ug/L						
<i>Surrogate: Terphenyl-d14</i>			24.9	ug/L	25.0		99.4	25-135		
LCS (BDB0426-BS1)										
Metolachlor	5.23		0.100	ug/L	5.00		105	60-125		
Atrazine	5.04		0.100	ug/L	5.00		101	60-125		
Chlorpyrifos	4.90		0.100	ug/L	5.00		98.0	50-125		
<i>Surrogate: Terphenyl-d14</i>			20.3	ug/L	25.0		81.0	25-135		
LCS Dup (BDB0426-BSD1)										
Chlorpyrifos	4.61		0.100	ug/L	5.00		92.2	50-125	6.10	25
Metolachlor	5.15		0.100	ug/L	5.00		103	60-125	1.54	25
					Prepared: 2/11/2023 Analyzed: 2/13/2023					

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Quality Control Data (Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDB0426 - SVOC Water (Continued)										
LCS Dup (BDB0426-BSD1)					Prepared: 2/11/2023 Analyzed: 2/13/2023					
Atrazine	5.26		0.100	ug/L	5.00		105	60-125	4.27	25
<i>Surrogate: Terphenyl-d14</i>			21.6	ug/L	25.0		86.6	25-135		
Batch: BDB0569 - W TPH-Dx										
Blank (BDB0569-BLK1)					Prepared: 2/17/2023 Analyzed: 2/19/2023					
Lube Oil	ND		0.0800	mg/L						
Mineral Oil	ND		0.400	mg/L						
Gasoline	ND		0.400	mg/L						
Diesel	ND		0.0800	mg/L						
<i>Surrogate: n-Hexacosane</i>			0.0366	mg/L	0.0500		73.3	50-150		
LCS (BDB0569-BS1)					Prepared: 2/17/2023 Analyzed: 2/19/2023					
Diesel	0.468		0.0800	mg/L	0.500		93.7	70-130		
<i>Surrogate: n-Hexacosane</i>			0.0462	mg/L	0.0500		92.5	50-150		
LCS Dup (BDB0569-BSD1)					Prepared: 2/17/2023 Analyzed: 2/19/2023					
Diesel	0.500		0.0800	mg/L	0.500		100	70-130	6.53	20
<i>Surrogate: n-Hexacosane</i>			0.0456	mg/L	0.0500		91.2	50-150		
Matrix Spike (BDB0569-MS1)					Source: WDB0365-14		Prepared: 2/17/2023 Analyzed: 2/20/2023			
Diesel	0.822		0.141	mg/L	0.879	<0.0494	93.6	70-130		
<i>Surrogate: n-Hexacosane</i>			0.0822	mg/L	0.0879		93.6	50-150		
Matrix Spike Dup (BDB0569-MSD1)					Source: WDB0365-14		Prepared: 2/17/2023 Analyzed: 2/20/2023			
Diesel	0.960		0.171	mg/L	1.07	<0.0494	89.9	70-130	15.5	20
<i>Surrogate: n-Hexacosane</i>			0.0823	mg/L	0.107		77.0	50-150		

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Quality Control Data (Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDB0879 - Glyphosate										
Blank (BDB0879-BLK1)					Prepared: 2/28/2023 Analyzed: 3/1/2023					
Glyphosate	ND		50.0	ug/L						
AMPA	ND		100	ug/L						
LCS (BDB0879-BS1)										
					Prepared: 2/28/2023 Analyzed: 3/1/2023					
Glyphosate	556		50.0	ug/L	500		111	70-130		
AMPA	726		100	ug/L	1000		72.6	70-130		
Matrix Spike (BDB0879-MS1)										
			Source: WDB0365-14		Prepared: 2/28/2023 Analyzed: 3/1/2023					
Glyphosate	648		50.0	ug/L	500	<25.0	130	70-130		
AMPA	1060		100	ug/L	1000	<50.0	106	70-130		
Matrix Spike Dup (BDB0879-MSD1)										
			Source: WDB0365-14		Prepared: 2/28/2023 Analyzed: 3/1/2023					
Glyphosate	646		50.0	ug/L	500	<25.0	129	70-130	0.309	25
AMPA	1170		100	ug/L	1000	<50.0	117	70-130	9.87	25



Chain of Custody Record

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Log-In #

WDB0365



Due: 02/22/23

Turn A

Please refer to <http://www.anateklabs.com/services/guidelines/reporting.asp>

Normal *All rush order ___ Phone
 Next Day* requests must be ___ Mail
 2nd Day* prior approved. ___ Fax
 Other* ___ Email

Company Name: Cardno-GS	Project Manager: Benjamin Berridge
Address: 737 Bishop St Suite 3050	Project Name & #: ADC Water Quality Monitoring
City: Honolulu State: HI Zip: 96813	Email Address: benjamin.berridge@cardno-gs.com
Phone: (808) 476-0067	Purchase Order #:
Fax:	Sampler Name & phone:

Provide Sample Description	List Analyses Requested	Note Special Instructions/Comments
----------------------------	-------------------------	------------------------------------

Lab ID	Sample Identification	Sampling Date/Time	Matrix	List Analyses Requested												Cust #
				# of Containers	Sample Volume	TSS EPA 160.2	TPH HClD - SW 846 MOD 8015	**TPH GRO SW846M8015	Arsenic EPA 200.8	Mercury EPA 245.1	Pesticides EPA 625 SIM	Glyphosate EPA 547	Pesticides Sed EPA 827D	Glyphosate Sed. EPA 8321B		
	Storm water samples															
	WW-3	2-4-2023 / 17:07 HST	Water	7		X	X	X	X	X	X	X				2
	E-2	2-4-2023 / 18:57 HST	Water	7		X	X	X	X	X	X	X				4
	E-1	2-4-2023 / 16:30 HST	Water	7		X	X	X	X	X	X	X				1
	E-1 DUP	2-4-2023 / 16:30 HST	Water	7		X	X	X	X	X	X	X				3
	E-1 MS/MSD	2-4-2023 / 16:30 HST	Water	7		X	X	X	X	X	X	X				3

****Please do not conduct TPH GRO analysis until Cardno confirms it should be run.**

	Printed Name	Signature	Company	Date	Time
Relinquished by	Ben Berridge		Cardno	2-6-2023	14:00
Received by	Rodney Settler		Anatek Labs	2-8-23	1100
Relinquished by					
Received by					
Relinquished by					
Received by					

Inspection Checklist		
Received Intact?	Y	N
Labels & Chains Agree?	Y	N
Containers Sealed?	Y	N
VOC Head Space?	Y	N
<i>See attached</i>		
Temperature (°C):		
Preservative:		
Date & Time:		
Inspected By:		



Chain of Custody Record

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Anatek
Log-In #

WDB0365



Due: 02/22/23

Company Name: Cardno-GS	Project Manager: Benjamin Berridge
Address: 737 Bishop St Suite 3050	Project Name & #: ADC Water Quality Monitoring
City: Honolulu State: HI Zip: 96813	Email Address: benjamin.berridge@cardno-gs.com
Phone: (808) 476-0067	Purchase Order #:
Fax:	Sampler Name & phone:

Turn Arr
 Please refer to <http://www.anateklabs.com/services/guidelines/reporting.asp>

Normal *All rush order ___ Phone
 Next Day* requests must be ___ Mail
 2nd Day* prior approved. ___ Fax
 Other* ___ Email

Provide Sample Description				List Analyses Requested										Note Special Instructions/Comments									
Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	TSS EPA 180.2	TPH HClD - SW 846 MOD 8015	**TPH GRO SW846M8015	Arsenic EPA 200.8	Mercury EPA 245.1													
Storm water samples																							
	DW-2	2-4-2023 / 18:16 HST	Water	5		X	X	X	X	X												3	**Please do not conduct TPH GRO analysis until Cardno confirms it should be run.
	DW-3	2-4-2023 / 18:39 HST	Water	5		X	X	X	X	X												4	
	D-2	2-4-2023 / 18:48 HST	Water	5		X	X	X	X	X												4	
	D-3	2-4-2023 / 18:30 HST	Water	5		X	X	X	X	X												4	
	D-4	2-4-2023 / 17:48 HST	Water	5		X	X	X	X	X												1	
	D-5	2-4-2023 / 17:59 HST	Water	5		X	X	X	X	X												1	
	DW-1/WW-1	2-4-2023 / 16:00 HST	Water	5		X	X	X	X	X												2	
	WW-2	2-4-2023 / 16:32 HST	Water	5		X	X	X	X	X												2	
	U-3/WW-4	2-4-2023 / 15:45 HST	Water	5		X	X	X	X	X												3	
	U-2/WW-5 WET	2-4-2023 / 16:10 HST	Water	5		X	X	X	X	X												3	
	WW-6	2-4-2023 / 15:30 HST	Water	5		X	X	X	X	X												2	

	Printed Name	Signature	Company	Date	Time
Relinquished by	Ben Berridge		Cardno	2/6/2023	14:00
Received by	Kathy Sattler		Anatek Labs	2-8-23	1100
Relinquished by					
Received by					
Relinquished by					
Received by					

Inspection Checklist

Received Intact? Y N
 Labels & Chains Agree? Y N
 Containers Sealed? Y N
 VOC Head Space? Y N

See attached

Temperature (°C): _____
 Preservative: _____
 Date & Time: _____
 Inspected By: _____



Sample Receipt and Preservation Form

WDB0365



Due: 02/22/23

Client Name: Carline GS Project: MOE Water Quality (at)

TAT: Normal RUSH: _____ days

Samples Received From: FedEx UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes No Custody Seals Intact: Yes No N/A

Number of Coolers/Boxes: 4 Type of Ice: Ice/Ice Packs Blue Ice Dry Ice None

Packing Material: Bubble Wrap Bags Foam/Peanuts None Other: _____

*1 Cooler Temp As Read (°C): 1.4 Cooler Temp Corrected (°C): 1.4 Thermometer Used: JR#2

Cooler #2: 0.4°C Cooler 3: 1.2°C Cooler 4: 1.6°C

Samples Received Intact? Yes No N/A
 Chain of Custody Present? Yes No N/A
 Samples Received Within Hold Time? Yes No N/A
 Samples Properly Preserved? Yes No N/A
 VOC Vials Free of Headspace (<6mm)? Yes No N/A
 VOC Trip Blanks Present? Yes No N/A
 Labels and Chains Agree? Yes No N/A
 Total Number of Sample Bottles Received: 90

Comments:

Chain of Custody Fully Completed? Yes No N/A
 Correct Containers Received? Yes No N/A
 Anatek Bottles Used? Yes No Unknown

Record preservatives (and lot numbers, if known) for containers below:

P1000 mL unpreserved G1000 unpreserved
G1000 mL HCl 2203512 G44 mL Na Thio sulfate 2200911
P250 mL unpreserved pH 2 2102558
G44 mL x 2 HCl 59072

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Received/Inspected By: Kathy Lattin Date/Time: 2-8-23 1300

TSS (SM2540D/EPA 160.2)-TS(SM 2540B)

Anatek Labs. Inc. Spokane

Batch ID: BDB0335

Date: 02.10.23

Time: 9:12

Initials: EMG

QC REQUIREMENTS: Blank <1ppm, LFB %Rec= 90-110%, MS/MSD %Rec= 80-120% Run a blank and lcs before and after every 20 samples, plus dup and ms/msd after 20 samples.

TSS Reagents	Std. #	Amount Spiked	Balance ID	Oven	Temp	Filters	Thermometer
100ppm Cellulose TSS Soln.	2300424	100 ppm	BAL-06	3	111	2201445	T-Oven 3

Comments: first weight 02.14.23 09:37

Sample Number	Sample ID	Dish ID	Filter Wt (g)	mLs used	Dry Weight #1	Dry Weight #2**	Dilution Factor	IResult (mg/L)	FResult (mg/L)	QC Date & Initials
BDB0335-BLK1	Blank	342	0.1073	1000	0.1074	0.1074	0.1	1.00	0.10	
BDB0335-BLK2	Blank	343	0.1067	1000	0.1067	0.1066	0.1	-1.00	-0.10	
BDB0335-BLK3	Blank	344	0.1063	1000	0.1065	0.1063	0.1			
BDB0335-BLK4	Blank	345	0.1061	1000	0.1062	0.1063	0.1	1.00	0.10	
BDB0335-BLK5	Blank	346	0.1107	1000	0.1107	0.1109	0.1			
BDB0335-BLK6	Blank	347	0.1071	1000	0.1073	0.1073	0.1	2.00	0.20	
BDB0335-BLK7	Blank	348	0.1069	1000	0.1069	0.1069	0.1			
BDB0335-BLK8	Blank	349	0.106	1000	0.1058	0.106	0.1	-2.00	-0.20	
BDB0335-BS1	LCS	350	0.107	100	0.1165	0.1167	1	95.00	95.00	
BDB0335-BS2	LCS	351	0.107	100	0.1166	0.1167	1	96.00	96.00	
BDB0335-BS3	LCS	352	0.1064	100	0.1161	0.1162	1	97.00	97.00	
BDB0335-BS4	LCS	353	0.1063	100	0.116	0.1158	1	95.00	95.00	
BDB0335-BS5	LCS	354	0.1064	100	0.1161	0.1161	1	97.00	97.00	
BDB0335-BS6	LCS	355	0.1058	100	0.1156	0.1157	1	98.00	98.00	
MDB0140-02	Influent	379	0.1062	50	0.1321	0.1323	2	259.00	518.00	
MDB0157-02	Influent	380	0.1066	50	0.1208	0.1205	2	139.00	278.00	
MDB0161-02	Influent	381	0.1101	10	0.1452	0.1456	10	351.00	3510.00	
MDB0162-02	WW Influent	382	0.1069	50	0.112	0.112	2	51.00	102.00	
MDB0168-02	Influent	383	0.1071	50	0.1187	0.1187	2	116.00	232.00	
BDB0335-DUP1	Duplicate MDB0169-01	384	0.1059	50	0.1094	0.1094	2	35.00	70.00	
MDB0169-01	Ideal Effluent	385	0.1073	50	0.1104	0.1104	2	31.00	62.00	
BDB0335-DUP2	Duplicate MDB0169-02	311	0.1065	100	0.1098	0.1097	1	32.00	32.00	
MDB0169-02	Settling Effluent	312	0.1065	100	0.1094	0.1095	1	29.00	29.00	
MDB0169-03	Influent	313	0.1066	20	0.1121	0.112	5	54.00	270.00	
MDB0180-01	BOD/TSS INFLUENT	314	0.1057	50	0.1321	0.1319	2	262.00	524.00	



TSS (SM2540D/EPA 160.2)-TS(SM 2540B)

Anatek Labs. Inc. Spokane

Sample Number	Sample ID	Dish ID	Filter Wt (g)	mLs used	Dry Weight #1	Dry Weight #2**	Dilution Factor	IResult (mg/L)	FResult (mg/L)	QC Date & Initials
MDB0181-02	Influent	315	0.1065	50	0.1165	0.1164	2	99.00	198.00	
MDB0222-01	Influent	316	0.1065	80	0.114	0.1139	1.25	74.00	92.50	
MDB0226-01	Influent	317	0.1069	50	0.1134	0.1132	2	63.00	126.00	
WDB0203-01	INF	318	0.1068	80	0.1116	0.1115	1.25	47.00	58.75	
WDB0203-02	EFF	319	0.1067	1000	0.1137	0.1137	0.1	70.00	7.00	
WDB0204-01	INF Comp	320	0.1071	90	0.1172	0.1173	1.1111111	101.00	112.22	
BDB0335-DUP3	Duplicate WDB0204-02	321	0.1058	500	0.1102	0.1104	0.2	44.00	8.80	
WDB0204-02	EFF Comp	322	0.1072	500	0.1109	0.1111	0.2	37.00	7.40	
WDB0210-01	Quincy Foods (580-123082)	323	0.1066	15	0.1658	0.1658	6.6666667	592.00	3946.67	
WDB0217-01	Mt. Spokane A	324	0.1071	700	0.112	0.1117	0.1428571	46.00	6.57	
WDB0217-02	Mt. Spokane B	325	0.1063	400	0.112	0.1122	0.25	57.00	14.25	
WDB0217-03	Mt. Spokane C	326	0.1062	300	0.1119	0.1119	0.3333333	57.00	19.00	
WDB0217-04	Meadowridge	327	0.1064	90	0.1147	0.1146	1.1111111	82.00	91.11	
WDB0227-01	Inf	328	0.1068	200	0.1117	0.1116	0.5	48.00	24.00	
WDB0227-02	Eff	329	0.1077	500	0.1114	0.1113	0.2	36.00	7.20	
WDB0235-01	INF	330	0.1067	70	0.1168	0.1165	1.4285714	98.00	140.00	
BDB0335-DUP4	Duplicate WDB0235-02	331	0.1063	500	0.1082	0.1084	0.2	19.00	3.80	
WDB0235-02	EFF	332	0.1066	500	0.1085	0.1086	0.2	19.00	3.80	
BDB0335-DUP5	Duplicate WDB0241-01	333	0.1067	250	0.1085	0.1085	0.4	18.00	7.20	
WDB0241-01	LOSS Effluent	334	0.1065	250	0.1084	0.1082	0.4	17.00	6.80	
WDB0243-01	Influent	335	0.1074	50	0.118	0.1181	2	106.00	212.00	
WDB0243-02	Effluent	707	0.1059	500	0.107	0.1072	0.2	11.00	2.20	
WDB0339-01	Loss Pressure Dosing Tank	708	0.1069	100	0.1101	0.111	1	31.00	31.00	
WDB0350-01	H5 (580-123171-1)	709	0.107	455	0.1104	0.1105	0.2197802	34.00	7.47	
WDB0352-01	Influent	710	0.1069	150	0.1106	0.1109	0.6666667	37.00	24.67	
WDB0353-01	Influent	711	0.1069	160	0.1224	0.1227	0.625	155.00	96.88	
WDB0358-01	Quincy School Dist. Week	712	0.1068	150	0.1126	0.1125	0.6666667	57.00	38.00	
WDB0359-01	Sabej (580-123164-1)	714	0.107	200	0.107	0.107	0.5	4.00	2.00	
WDB0360-01	Microsoft Columbia (580-1	713	0.1063	200	0.107	0.1067	0.5	4.00	2.00	
WDB0361-01	Vitalix (580-123157-1)	715	0.1067	200	0.1084	0.1081	0.5	14.00	7.00	
WDB0362-01	Muni Influent (580-123177-	716	0.1071	50	0.1149	0.1146	2	75.00	150.00	
BDB0335-DUP6	Duplicate WDB0362-02	717	0.1063	200	0.1097	0.1095	0.5	32.00	16.00	



TSS (SM2540D/EPA 160.2)-TS(SM 2540B)

Anatek Labs, Inc. Spokane

Sample Number	Sample ID	Dish ID	Filter Wt (g)	mLs used	Dry Weight #1	Dry Weight #2**	Dilution Factor	IResult (mg/L)	FResult (mg/L)	QC Date & Initials
WDB0485-02	D-7	6/3	0.1073	1000	0.1113	0.1112	0.1	39.00	3.90	
WDB0485-03	D-8	6/4	0.1073	200	0.1195	0.1193	0.5	120.00	60.00	
WDB0485-04	U-1/WW-7	6/5	0.1075	50	0.1509	0.1506	2	431.00	862.00	



Report Generated By Teledyne CETAC QuickTrace

Analyst: Mercury

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\02142023 245A.wszf

Creation Date: 2/14/2023 10:06:22 AM

Comment:

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags
Calibration Blank	STD	02/14/23 11:57:39 am	0.0000	690	31.83	-32.19	
Replicates		938.9 785.1 600.3 434.1					
Standard #1 (0.1 ppb)	STD	02/14/23 12:00:06 pm	0.1000	2541	2.85	-34.24	
Replicates		2595.8 2605.3 2510.6 2453.4					
Standard #2 (0.5 ppb)	STD	02/14/23 12:02:32 pm	0.5000	9470	0.99	-67.71	
Replicates		9514.9 9549.4 9479.7 9336.0					
Standard #3 (2.0 ppb)	STD	02/14/23 12:04:59 pm	2.0000	41100	1.48	105.52	
Replicates		41381.6 41637.0 41144.2 40236.4					
Standard #4 (5.0 ppb)	STD	02/14/23 12:07:27 pm	5.0000	97554	1.70	91.98	
Replicates		95426.8 97144.4 98389.0 99257.7					
Standard #5 (10 ppb)	STD	02/14/23 12:09:54 pm	10.0000	189135	1.55	-63.37	
Replicates		190973.4 191520.9 189017.9 185029.5					

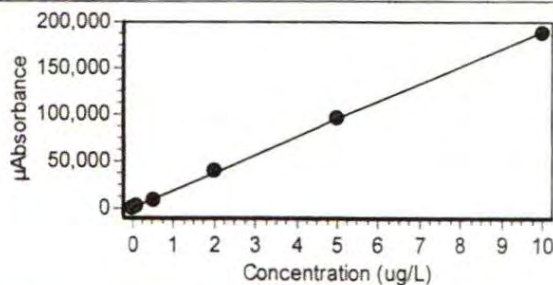
Calibration

Equation: $A = 1298.123 + 18903.516C$

R2: 0.99961

SEE: 1648.0310

Flags:



BLANK	UNK	02/14/23 12:33:29 pm	-0.0604	157	7.93		
Replicates		262.0 196.4 112.1 57.1					
LCS	UNK	02/14/23 12:35:55 pm	1.7300	34008	1.08		
Replicates		33554.2 34220.0 34344.8 33914.1					
WDB0345-01	UNK	02/14/23 12:38:21 pm	-0.0556	248	9.57		
Replicates		367.9 287.9 192.3 142.0					
WDB0350-01	UNK	02/14/23 12:43:52 pm	-0.0762	-143	2.00		
Replicates		-103.1 -148.4 -146.8 -172.2					
ICV	UNK	02/14/23 12:46:18 pm	1.9780	38696	1.27		
Replicates		38748.6 39144.7 38864.3 38026.0					
WDB0359-01	UNK	02/14/23 12:48:44 pm	-0.0519	316	9.84		
Replicates		428.7 346.8 290.3 199.0					
WDB0365-01	UNK	02/14/23 12:51:11 pm	-0.0772	-161	1.34		
Replicates		-135.6 -161.0 -163.6 -183.3					

Sample Name	Type	Date/Time	Conc (ug/L)	μAbs	%RSD	Residual	Flags
WDB0365-02	UNK	02/14/23 12:53:38 pm	-0.0796	-206	0.84		
Replicates		-198.3 -192.6 -217.9 -216.0					
WDB0365-03	UNK	02/14/23 12:56:05 pm	-0.0746	-113	0.70		
Replicates		-110.4 -105.6 -107.6 -127.3					
WDB0365-04	UNK	02/14/23 12:58:32 pm	-0.0671	30	2.35		
Replicates		-3.2 13.2 59.8 49.6					
WDB0365-04	UNK	02/14/23 01:00:59 pm	-0.0680	12	3.26		
Replicates		30.9 -12.7 -30.4 62.1					
WDB0365-06	UNK	02/14/23 01:03:27 pm	-0.0742	-106	3.60		
Replicates		-66.7 -64.5 -120.4 -170.6					
WDB0365-07	UNK	02/14/23 01:05:52 pm	-0.0699	-23	1.32		
Replicates		2.6 -29.9 -26.2 -37.3					
BLK	UNK	02/14/23 01:08:19 pm	-0.0526	304	2.48		
Replicates		330.7 315.1 295.7 273.7					
CK	UNK	02/14/23 01:10:45 pm	2.1610	42141	1.45		
Replicates		42409.0 42659.3 42196.0 41299.9					
WDB0365-08	UNK	02/14/23 01:13:11 pm	0.0151	1583	93.51		
Replicates		1894.7 1684.3 1474.3 1277.6					
WDB0365-09	UNK	02/14/23 01:15:38 pm	-0.0787	-190	3.10		
Replicates		-145.3 -157.3 -215.6 -241.7					
WDB0365-10	UNK	02/14/23 01:18:04 pm	-0.0847	-304	0.84		
Replicates		-284.8 -313.5 -303.5 -312.8					
WDB0365-11	UNK	02/14/23 01:20:30 pm	-0.0643	83	1.22		
Replicates		78.8 90.1 98.7 64.4					
MS1	UNK	02/14/23 01:22:57 pm	1.7250	33898	1.79		
Replicates		34185.8 34567.1 33553.0 33285.7					
MSD1	UNK	02/14/23 01:25:24 pm	1.9460	38084	1.38		
Replicates		38255.3 38534.5 38190.9 37354.2					
MS A	UNK	02/14/23 01:27:51 pm	1.8480	36236	0.53		
Replicates		36010.1 36393.4 36383.9 36155.6					
MASD A	UNK	02/14/23 01:30:18 pm	-0.0648	73	7.00		
Replicates		149.6 141.2 25.4 -23.5					
WDB0365-12	UNK	02/14/23 01:32:45 pm	-0.0752	-123	3.99		
Replicates		-79.7 -201.4 -127.9 -83.4					
WDB0365-13	UNK	02/14/23 01:35:12 pm	-0.0681	10	3.14		
Replicates		-1.4 -42.3 39.7 43.9					
WDB0365-14	UNK	02/14/23 01:37:39 pm	-0.0459	430	11.08		
Replicates		557.0 444.3 383.8 333.3					
MS2	UNK	02/14/23 01:40:05 pm	1.7080	33584	0.73		
Replicates		33622.5 33818.0 33638.9 33255.4					

Sample Name	Type	Date/Time	Conc (ug/L)	μAbs	%RSD	Residual	Flags
MSD2	UNK	02/14/23 01:42:32 pm	1.7880	35095	1.07		
Replicates		35132.1 35413.2 35254.6 34579.6					
MS B	UNK	02/14/23 01:44:58 pm	1.9450	38071	1.91		
Replicates		38496.8 38621.7 38087.9 37076.8					
MSD B	UNK	02/14/23 01:47:24 pm	1.9100	37408	2.61		
Replicates		36252.3 37094.0 37871.5 38413.3					
WDB0365-14	UNK	02/14/23 01:49:51 pm	-0.0368	603	19.16		
Replicates		764.8 647.2 542.5 456.6					
WDB0445-01	UNK	02/14/23 01:52:17 pm	-0.0713	-50	3.36		
Replicates		13.1 -47.7 -81.4 -84.5					
WDB0445-02	UNK	02/14/23 01:54:44 pm	-0.0744	-108	1.39		
Replicates		-82.5 -105.7 -115.6 -129.1					
MS3	UNK	02/14/23 01:57:11 pm	1.8590	36433	0.54		
Replicates		36189.2 36588.4 36579.6 36373.9					
MSD3	UNK	02/14/23 01:59:38 pm	-0.0716	-56	2.40		
Replicates		-49.7 -53.7 -20.2 -99.0					
MS C	UNK	02/14/23 02:02:05 pm	-0.0715	-54	2.97		
Replicates		-30.6 -110.1 -53.3 -20.3					
MSD C	UNK	02/14/23 02:04:32 pm	-0.0657	56	8.49		
Replicates		-70.3 10.0 150.0 136.1					
BLK	UNK	02/14/23 02:06:58 pm	-0.0305	721	19.86		
Replicates		854.8 759.7 684.4 584.2					
CK	UNK	02/14/23 02:09:25 pm	0.4882	10528	0.80		
Replicates		10429.0 10567.1 10596.9 10517.7					
WDB0485-01	UNK	02/14/23 02:11:52 pm	-0.0599	165	4.07		
Replicates		221.5 180.4 143.2 115.1					
WDB0485-02	UNK	02/14/23 02:14:18 pm	-0.0649	72	1.11		
Replicates		83.7 79.1 72.5 52.8					
WDB0485-03	UNK	02/14/23 02:16:45 pm	-0.0615	135	3.70		
Replicates		164.1 173.5 122.0 79.7					
WDB0485-04	UNK	02/14/23 02:19:11 pm	-0.0762	-142	1.22		
Replicates		-139.8 -129.7 -131.4 -167.6					
BLK	UNK	02/14/23 02:21:37 pm	-0.0524	307	3.85		
Replicates		346.9 313.5 313.0 255.1					
CK1	UNK	02/14/23 02:24:03 pm	0.4973	10699	0.89		
Replicates		10682.5 10791.3 10728.4 10592.9					
CK2	UNK	02/14/23 02:26:30 pm	2.2850	44497	1.66		
Replicates		44883.8 45087.9 44543.1 43474.2					
CK3	UNK	02/14/23 02:28:58 pm	5.6190	107510	1.47		
Replicates		108104.1 108878.7 107792.1 105265.4					

Sample Name	Type	Date/Time	Conc (ug/L)	μAbs	%RSD	Residual	Flags
WDB0365-03	UNK	02/14/23 02:45:36 pm	-0.0659	52	4.56		
Replicates		120.1 70.7 27.7 -12.1					
WDB0365-04	UNK	02/14/23 02:48:03 pm	-0.0763	-144	1.66		
Replicates		-115.6 -137.6 -149.8 -173.0					
WDB0365-05	UNK	02/14/23 02:50:31 pm	-0.0777	-172	1.24		
Replicates		-146.1 -180.1 -188.3 -172.1					
WDB0365-06	UNK	02/14/23 02:52:58 pm	-0.0738	-98	1.37		
Replicates		-77.6 -85.9 -110.8 -117.1					
MS A	UNK	02/14/23 02:55:25 pm	-0.0679	14	2.26		
Replicates		-6.3 -14.1 29.7 46.9					
MSDA	UNK	02/14/23 02:57:52 pm	1.9140	37483	0.84		
Replicates		37226.5 37780.3 37706.8 37216.9					
WDB0365-12	UNK	02/14/23 03:00:20 pm	-0.0560	240	8.80		
Replicates		345.1 277.0 212.3 126.8					
WDB0365-13	UNK	02/14/23 03:02:47 pm	-0.0695	-15	2.89		
Replicates		33.6 -4.5 -39.4 -50.6					
MSD3	UNK	02/14/23 03:05:14 pm	1.8910	37051	0.87		
Replicates		36595.5 37116.8 37297.1 37193.7					
MS C	UNK	02/14/23 03:07:41 pm	2.0210	39494	1.02		
Replicates		38938.5 39507.1 39768.9 39762.5					
MSD C	UNK	02/14/23 03:10:09 pm	2.0110	39310	1.83		
Replicates		39792.1 39827.8 39282.5 38337.9					
BLANK	UNK	02/14/23 03:12:35 pm	-0.0740	-101	4.04		
Replicates		-26.8 -92.4 -128.0 -158.1					
LCS	UNK	02/14/23 03:15:02 pm	1.9670	38489	1.52		
Replicates		38753.9 38980.1 38534.2 37687.6					
CK	UNK	02/14/23 03:25:09 pm	0.4839	10446	0.76		
Replicates		10350.1 10482.8 10507.8 10442.6					

Notes

Analyst:

Lamp Current:

High Standard mirco Abs:

PREPARATION BENCH SHEET

Metals

BDB0420

Matrix: Water Prepared using: Metals - W 3010 Digest

Lab Number	Prepared - By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
BDB0420-BLK1	02/13/23 09:51 - JLG	50	50				
BDB0420-BS1	02/13/23 09:51 - JLG	50	50	2300158		250	
BDB0420-MS1	02/13/23 09:51 - JLG	50	50	2300158	WDB0365-11	250	
BDB0420-MS2	02/13/23 09:51 - JLG	50	50	2300158	WDB0365-14	250	
BDB0420-MSD1	02/13/23 09:51 - JLG	50	50	2300158	WDB0365-11	250	
BDB0420-MSD2	02/13/23 09:51 - JLG	50	50	2300158	WDB0365-14	250	
WDB0365-01	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			
WDB0365-02	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			
WDB0365-03	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			
WDB0365-04	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			
WDB0365-05	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			
WDB0365-06	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			
WDB0365-07	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			
WDB0365-08	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			
WDB0365-09	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			
WDB0365-10	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			

Batch Prepared By _____ Date _____ Analytical Run Date _____

PREPARATION BENCH SHEET

Metals

BDB0420

(Continued)

Matrix: Water

Prepared using: Metals - W 3010 Digest

Lab Number	Prepared - By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
WDB0365-11	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			
WDB0365-12	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			
WDB0365-13	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			
WDB0365-14	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			
WDB0365-15	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			
WDB0485-01	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			
WDB0485-02	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			
WDB0485-03	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			
WDB0485-04	02/13/23 09:51 - JLG Analytes: Arsenic	50	50	Client: Cardno - Hawaii			

Support Equipment: W PT-04 W PT-33 W PT-21, W PT-27 BLK2A

Reagent ID	Description	LotNum
2003793	Metals UHP Helium	3145PO0620A
2202260	P. Metals Digestion Vials Q	052722
2204000	Nitric Acid	62286
2300138	C. Internal Standard Mix	-
2300157	P. 1:1 HCl-metals	59072
2300394	C. 10 ppb Tune Solution	-

Sample Report

Sample Name BDB0420-BLK1
File Name 019_Blk.d
Data Path Name D:\Agilent\CPMH\1\DATA\Method Batches\RXN\Sequences\02162023 HIGH MATRIX.b
Acq Time 2023-02-16 10:39:46
Sample Type Blank
Total Dilution 1.0000
Comment —
ISTD Ref FileName 007CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.122	He	0.122	72	13.2	0.06	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	916015.08	0.6	96.0	954071.916666667
Ge	72	He	239635.91	0.5	96.7	247766.56
Ge	72	HEHe	102300.24	0.8	95.6	106970.846666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BDB0420-MRL1
File Name 020LICV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02162023 HIGH MATRIX.b
Acq Time 2023-02-16 10:42:05
Sample Type LLICV
Total Dilution 1.0000
Comment —
ISTD Ref FileName 007CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	1.014	He	1.014	72	4.6	1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	953218.60	1.0	101.0	954071.916666667
Ge	72	He	248182.70	1.6	100.2	247766.56
Ge	72	HEHe	104522.61	2.0	97.7	106970.846666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BDB0420-BS1
File Name 021_LCS.d
Data Path Name D:\Agilent\CPMH\1\DATA\Method Batches\RXN\Sequences\02162023 HIGH MATRIX.b
Acq Time 2023-02-16 10:44:26
Sample Type LCS
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 007CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	52.050	He	52.05	72	0.6	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	931200.23	0.2	97.6	954071.916666667
Ge	72	He	240635.00	0.9	97.1	247766.56
Ge	72	HEHe	103925.73	0.9	97.2	106970.846666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WDB0485-04
File Name 022SMPL.d
Data Path Name D:\Agilent\ICPM\H1\DATA\Method Batches\RXN\Sequences\02162023 HIGH MATRIX.b
Acq Time 2023-02-16 10:46:44
Sample Type Sample
Total Dilution 1.0000
Comment —
ISTD Ref FileName 007CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.298	He	0.298	72	4.7	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	917651.25	1.2	96.2	954071.916666667
Ge	72	He	236511.61	0.4	95.5	247766.56
Ge	72	HEHe	100407.67	1.3	93.9	106970.846666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WDB0485-03
File Name 023SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02162023 HIGH MATRIX.b
Acq Time 2023-02-16 10:49:02
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 007CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	1,319	He	1,319	72	4.0	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	909181.94	1.4	95.3	954071.91666667
Ge	72	He	237777.34	0.7	96.0	247766.56
Ge	72	HEHe	103989.65	0.7	97.2	106970.84666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WDB0485-02
File Name 024SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02162023 HIGH MATRIX.b
Acq Time 2023-02-16 10:51:23
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 007CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	1.763	He	1.763	72	4.0	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	887471.00	0.9	93.0	954071.918666667
Ge	72	He	233445.74	0.9	94.2	247766.56
Ge	72	HEHe	100230.94	1.5	93.7	106970.846666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WDB0485-01
File Name 025SMPL.d
Data Path Name D:\Agilent\ICPMH1\DATA\Method Batches\RXXNSequences\02162023 HIGH MATRIX.b
Acq Time 2023-02-16 10:53:41
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 007CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	1.511	He	1.511	72	6.9	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	910709.10	2.7	95.5	954071.916666667
Ge	72	He	243011.06	0.1	98.1	247766.56
Ge	72	HEHe	104103.63	0.5	97.3	106970.846666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name WDB0365-11
File Name 026_ARF.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02162023 HIGH MATRIX.b
Acq Time 2023-02-16 10:56:00
Sample Type AllRef
Total Dilution 1.0000
Comment —
ISTD Ref FileName 007CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.296	He	0.296	72	7.2	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	928755.73	1.5	97.3	954071.916666667
Ge	72	He	246889.31	0.7	99.6	247766.56
Ge	72	HEHe	105131.41	0.4	96.3	106970.846666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BDB0420-MS1
File Name 027_LFM.d
Data Path Name D:\Agilent\CPMH\1\DATA\Method Batches\RXN\Sequences\02162023 HIGH MATRIX.b
Acq Time 2023-02-16 10:58:20
Sample Type LFM
Total Dilution 1.0000
Comment —
ISTD Ref FileName 007CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	47.353	He	47.353	72	1.7	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	920795.14	1.9	96.5	954071.916666667
Ge	72	He	246882.73	0.4	99.6	247766.56
Ge	72	HEHe	131751.77	10.6	123.2	106970.846666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BDB0420-MSD1
File Name 028LFMD.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02162023 HIGH MATRIX.b
Acq Time 2023-02-16 11:00:38
Sample Type LFMDup
Total Dilution 1.0000
Comment —
ISTD Ref FileName 007CALB.d
Sample QC Pass/Fial Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	49.975	He	49.975	72	0.9	20	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	930361.29	1.8	97.5	954071.916666667
Ge	72	He	242724.19	0.8	98.0	247766.56
Ge	72	HEHe	102486.38	1.0	95.8	106970.846666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BDB0420-BLK1
File Name 029_Blk.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXNSequences\02162023 HIGH MATRIX.b
Acq Time 2023-02-16 11:02:57
Sample Type Blank
Total Dilution 1.0000
Comment —
ISTD Ref FileName 007CALB.d
Sample QC Pass/Fail Fail
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.154	He	0.154	72	9.4	0.06	>DL*2.2

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	935934.29	2.8	98.1	954071.918666667
Ge	72	He	244153.01	0.8	98.5	247766.56
Ge	72	HEHe	104771.92	1.6	97.9	106970.846666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BDB0420-BS1
File Name 030_LCS.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02162023 HIGH MATRIX.b
Acq Time 2023-02-16 11:05:17
Sample Type LCS
Total Dilution 1.0000
Comment —
ISTD Ref FileName 007CALB.d
Sample QC Pass/Fial Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	53.499	He	53.499	72	1.3	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	935491.31	1.4	98.1	954071.916666667
Ge	72	He	242348.23	0.3	97.8	247766.56
Ge	72	HEHe	103720.74	1.2	97.0	106970.846666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name Rinse
File Name 031_RIN.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXXNSequences\02162023 HIGH MATRIX.b
Acq Time 2023-02-16 11:07:35
Sample Type RINSE
Total Dilution 1.0000
Comment —
ISTD Ref FileName 007CALB.d
Sample QC Pass/Fial Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	966265.42	2.5	101.3	954071.91666667
Ge	72	He	251465.60	0.9	101.5	247766.56
Ge	72	HEHe	108746.79	1.3	101.7	106970.84666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name CCV
File Name 032_CC.V.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02162023 HIGH MATRIX.b
Acq Time 2023-02-16 11:09:53
Sample Type CCV
Total Dilution 1.0000
Comment —
ISTD Ref FileName 007CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	49.796	He	49.796	72	1.9	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	944023.88	1.4	98.9	954071.916666667
Ge	72	He	249674.40	1.0	100.8	247766.56
Ge	72	HEHe	106091.85	1.5	99.2	106970.846666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name CCB
File Name 033_CCB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02162023 HIGH MATRIX.b
Acq Time 2023-02-16 11:12:13
Sample Type CCB
Total Dilution 1.0000
Comment —
ISTD Ref FileName 007CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.035	He	0.035	72	10.5	0.06	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	959608.71	0.9	100.6	954071.916666667
Ge	72	He	248763.77	0.5	100.4	247766.56
Ge	72	HEHe	106212.02	3.0	99.3	106970.846666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name Rinse
File Name 034_RIN.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02162023 HIGH MATRIX.b
Acq Time 2023-02-16 11:22:12
Sample Type RINSE
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 007CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				0
Sc	45	No Gas				0
Sc	45	He				0
Ge	72	No Gas	948168.25	2.5	99.4	954071.916666667
Ge	72	He	246894.97	0.9	99.6	247766.56
Ge	72	HEHe	105568.27	0.2	98.7	106970.846666667
Rh	103	No Gas				0
Rh	103	He				0
Ho	165	No Gas				0
Ho	165	He				0

Sample Report

Sample Name BDB0420-BLK1
File Name 031_Blk.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 17:47:14
Sample Type Blank
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fial Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.095	He	0.095	72	15.4	0.06	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	864590.48	1.8	98.3	879593.496666667
Ge	72	He	211869.46	0.8	100.0	211858.71
Ge	72	HEHe	100903.64	1.4	103.2	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name BDB0420-MRL1
File Name 032LICV.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 17:49:32
Sample Type LLICV
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fial Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	1.071	He	1.071	72	8.2	1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	909190.35	3.3	103.4	879593.496666667
Ge	72	He	215986.34	1.0	101.9	211858.71
Ge	72	HEHe	101983.71	1.7	104.3	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name BDB0420-BS1
File Name 033_LCS.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 17:51:51
Sample Type LCS
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	52.558	He	52.558	72	1.4	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	840018.69	1.1	95.5	879593.496666667
Ge	72	He	213739.60	1.2	100.9	211858.71
Ge	72	HEHe	101103.87	2.2	103.4	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name WDB0365-01
File Name 034SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 17:54:11
Sample Type Sample
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	2.121	He	2.121	72	1.8	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	858350.60	2.2	97.6	879593.496666667
Ge	72	He	206515.43	0.4	97.5	211858.71
Ge	72	HEHe	97442.19	0.5	99.6	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name WDB0365-02
File Name 035SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 17:56:30
Sample Type Sample
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	1.204	He	1.204	72	4.2	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	850872.02	1.5	96.7	879593.496666667
Ge	72	He	209872.17	0.5	99.1	211858.71
Ge	72	HEHe	99930.78	2.1	102.2	97789.226666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name WDB0365-03
File Name 036SMPL.d
Data Path Name D:\Agilent\CPMH\1\DATA\Method Batches\RXX\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 17:58:49
Sample Type Sample
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	19.074	He	19.074	72	2.4	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	786939.98	0.3	89.5	879593.496666667
Ge	72	He	208220.15	1.6	98.3	211858.71
Ge	72	HEHe	95132.94	1.1	97.3	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name WDB0365-04
File Name 037SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\R\XN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:01:10
Sample Type Sample
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	7.351	He	7.351	72	1.4	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	942584.42	1.3	107.2	879593.496666667
Ge	72	He	236360.44	1.1	111.6	211858.71
Ge	72	HEHe	107499.62	1.4	109.9	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name WDB0365-05
File Name 038SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:03:29
Sample Type Sample
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fial Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	3.762	He	3.762	72	2.5	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	935217.75	1.2	106.3	879593.496666667
Ge	72	He	232489.35	0.7	109.7	211858.71
Ge	72	HEHe	109208.06	0.3	111.7	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name WDB0365-06
File Name 039SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:05:47
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	2.604	He	2.604	72	2.0	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	926719.06	0.4	105.4	879593.496666667
Ge	72	He	225497.82	0.4	106.4	211858.71
Ge	72	HEHe	103890.28	1.2	106.2	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name WDB0365-07
File Name 040SMPL.d
Data Path Name D:\Agilent\NCPMH\1\DATA\Method Batches\RXXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 16:08:07
Sample Type Sample
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.398	He	0.398	72	5.6	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Lj	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	918129.83	1.0	104.4	879593.496666667
Ge	72	He	227815.90	1.0	107.5	211858.71
Ge	72	HEHe	106302.53	2.2	108.7	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name WDB0365-08
File Name 041SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:10:26
Sample Type Sample
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fial Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	1.742	He	1.742	72	5.2	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	743446.58	0.1	84.5	879593.496666667
Ge	72	He	203822.40	0.8	96.2	211858.71
Ge	72	HEHe	90163.25	0.7	92.2	97789.226666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name WDB0365-09
File Name 042SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:12:44
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fial Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.368	He	0.368	72	2.6	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	1021912.48	1.1	116.2	879593.496666667
Ge	72	He	256759.16	1.1	121.2	211858.71
Ge	72	HEHe	116713.36	1.3	119.4	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name WDB0365-10
File Name 043SMPL.d
Data Path Name D:\Agilent\CPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:15:05
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.413	He	0.413	72	5.9	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	987366.67	0.9	112.3	879593.496666667
Ge	72	He	244829.49	0.7	115.6	211858.71
Ge	72	HEHe	111030.80	2.0	113.5	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name Rinse
File Name 044_RIN.d
Data Path Name D:\Agilent\ICPM\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:17:23
Sample Type RINSE
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fial Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1146832.63	3.3	111.1	1032130.82
Sc	45	No Gas	2461537.50	2.4	113.8	2162593.66666667
Sc	45	He	240471.73	0.9	117.9	203936.956666667
Ge	72	No Gas	1010474.79	1.6	114.9	879593.496666667
Ge	72	He	246657.68	0.9	116.4	211858.71
Ge	72	HEHe	111770.64	1.0	114.3	97789.2266666667
Rh	103	No Gas	2953235.08	1.5	105.0	2813334.33333333
Rh	103	He	2113338.60	2.4	107.5	1966417.76666667
Ho	165	No Gas	746644.10	0.6	91.6	814721.52
Ho	165	He	561575.57	0.1	98.2	571967.546666667

Sample Report

Sample Name CCV
File Name 045_CC.V.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\R\XN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:20:55
Sample Type CCV
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Fail
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	50.401	No Gas	50.401	6	1.7	50	
9	Be	50.381	No Gas	50.381	6	3.1	50	
11	B	58.853	No Gas	58.853	45	5.2	50	> +/- 10%
27	Al	104.402	No Gas	104.402	45	2.4	100	
27	Al	99.279	He	99.279	45	2.1	100	
47	Ti	50.446	He	50.446	45	3.9	50	
51	V	51.015	He	51.015	45	0.8	50	
52	Cr	49.223	He	49.223	45	0.8	50	
53	Cr	49.886	He	49.886	45	1.1	50	
55	Mn	49.056	No Gas	49.056	72	2.0	50	
55	Mn	50.444	He	50.444	72	1.1	50	
56	Fe	99.201	He	99.201	72	0.7	100	
56	Fe	99.394	HEHe	99.394	72	0.9	100	
57	Fe	97.653	He	97.653	72	4.6	100	
59	Co	49.329	He	49.329	72	1.4	50	
60	Ni	48.722	He	48.722	72	1.5	50	
62	Ni	48.608	He	48.608	72	1.1	50	
65	Cu	49.076	No Gas	49.076	72	2.8	50	
65	Cu	48.734	He	48.734	72	1.8	50	
66	Zn	49.458	He	49.458	72	1.9	50	
75	As	50.421	He	50.421	72	0.9	50	
78	Se	50.812	He	50.812	72	3.0	50	
88	Sr	47.342	No Gas	47.342	72	2.1	50	
88	Sr	50.272	He	50.272	72	0.5	50	
95	Mo	50.207	No Gas	50.207	103	1.8	50	
95	Mo	51.800	He	51.8	103	2.6	50	
98	Mo	49.716	No Gas	49.716	103	1.8	50	
98	Mo	51.515	He	51.515	103	1.0	50	
107	Ag	49.717	No Gas	49.717	103	1.9	50	
107	Ag	51.359	He	51.359	103	1.0	50	
109	Ag	48.980	No Gas	48.98	103	2.5	50	
109	Ag	51.235	He	51.235	103	0.8	50	
111	Cd	48.844	No Gas	48.844	103	1.2	50	

Sample Report

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
111	Cd	51.731	He	51.731	103	0.8	50	
114	Cd	48.972	No Gas	48.972	103	1.9	50	
114	Cd	51.668	He	51.668	103	1.2	50	
118	Sn	48.523	No Gas	48.523	103	2.3	50	
118	Sn	52.381	He	52.381	103	1.6	50	
123	Sb	50.081	No Gas	50.081	165	2.8	50	
137	Ba	51.524	No Gas	51.524	165	3.0	50	
137	Ba	50.363	He	50.363	165	1.7	50	
201	Hg	2.455	No Gas	2.455	165	2.6	2.5	
201	Hg	2.490	He	2.49	165	2.3	2.5	
202	Hg	2.490	No Gas	2.49	165	3.5	2.5	
202	Hg	2.459	He	2.459	165	1.3	2.5	
205	Tl	49.534	No Gas	49.534	165	3.2	50	
205	Tl	50.842	He	50.842	165	1.8	50	
208	Pb	47.498	No Gas	47.498	165	3.2	50	
208	Pb	48.226	He	48.226	165	0.7	50	
238	U	42.653	No Gas	42.653	165	2.7	50	> +/- 10%
238	U	42.598	He	42.598	165	0.2	50	> +/- 10%

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1137339.50	1.4	110.2	1032130.82
Sc	45	No Gas	2471991.17	1.6	114.3	2162593.66666667
Sc	45	He	240548.92	1.4	118.0	203936.956666667
Ge	72	No Gas	990792.31	1.0	112.6	879593.496666667
Ge	72	He	245409.53	1.3	115.8	211858.71
Ge	72	HEHe	109170.14	1.0	111.6	97789.2266666667
Rh	103	No Gas	2909853.42	0.7	103.4	2813334.33333333
Rh	103	He	2045685.82	1.8	104.0	1966417.76666667
Ho	165	No Gas	740693.58	1.4	90.9	814721.52
Ho	165	He	559901.00	1.2	97.9	571967.546666667

Sample Report

Sample Name CCB
File Name 046_CCB.d
Data Path Name D:\Agilent\CPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:24:25
Sample Type CCB
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Fail
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	<0.000	No Gas	-0.004	6	0.7	0.5	
9	Be	0.005	No Gas	0.005	6	75.0	0.05	
11	B	13.550	No Gas	13.55	45	4.9	1.69	>DL*2.2
27	Al	<0.000	No Gas	-0.102	45	4.2	1.57	
27	Al	0.085	He	0.085	45	26.4	1.57	
47	Ti	0.115	He	0.115	45	173.2	0.23	
51	V	0.276	He	0.276	45	4.2	0.28	
52	Cr	<0.000	He	-0.006	45	16.7	0.04	
53	Cr	0.875	He	0.875	45	3.6	0.04	>DL*2.2
55	Mn	0.184	No Gas	0.184	72	2.3	0.05	>DL*2.2
55	Mn	<0.000	He	-0.011	72	4.9	0.05	
56	Fe	<0.000	He	-0.05	72	1.3	1.59	
56	Fe	0.345	HEHe	0.345	72	0.9	1.59	
57	Fe	0.279	He	0.279	72	4.8	1.59	
59	Co	<0.000	He	-0.008	72	28.6	0.02	
60	Ni	<0.000	He	-0.141	72	2.8	0.08	
62	Ni	<0.000	He	-0.136	72	4.5	0.08	
65	Cu	<0.000	He	-0.097	72	4.4	0.03	
66	Zn	<0.000	He	-0.068	72	3.0	0.3	
75	As	0.106	He	0.106	72	17.7	0.06	
78	Se	1.010	He	1.01	72	10.1	0.17	>DL*2.2
88	Sr	0.039	No Gas	0.039	72	14.7	0.02	
88	Sr	0.060	He	0.06	72	59.7	0.02	>DL*2.2
95	Mo	0.117	No Gas	0.117	103	27.4	0.05	>DL*2.2
95	Mo	0.193	He	0.193	103	22.2	0.05	>DL*2.2
98	Mo	0.108	No Gas	0.108	103	12.4	0.05	
98	Mo	0.193	He	0.193	103	18.3	0.05	>DL*2.2
107	Ag	0.007	No Gas	0.007	103	9.2	0.03	
107	Ag	0.005	He	0.005	103	32.1	0.03	
109	Ag	0.007	No Gas	0.007	103	23.3	0.03	
109	Ag	0.003	He	0.003	103	12.5	0.03	
111	Cd	0.011	No Gas	0.011	103	810.3	0.01	
111	Cd	0.002	He	0.002	103	0.0	0.01	

Sample Report

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
114	Cd	0.034	No Gas	0.034	103	237.6	0.01	>DL*2.2
114	Cd	0.010	He	0.01	103	29.2	0.01	
118	Sn	0.187	No Gas	0.187	103	6.4	0.04	>DL*2.2
118	Sn	0.243	He	0.243	103	9.3	0.04	>DL*2.2
123	Sb	0.738	No Gas	0.738	165	11.0	0.05	>DL*2.2
137	Ba	0.020	No Gas	0.02	165	6.6	0.05	
137	Ba	0.025	He	0.025	165	20.2	0.05	
201	Hg	0.024	No Gas	0.024	165	18.5	0.01	>DL*2.2
201	Hg	0.024	He	0.024	165	4.9	0.01	>DL*2.2
202	Hg	0.025	No Gas	0.025	165	6.3	0.01	>DL*2.2
202	Hg	0.016	He	0.016	165	16.6	0.01	
205	Tl	0.004	No Gas	0.004	165	32.2	0.05	
205	Tl	<0.000	He	-0.004	165	8.8	0.05	
208	Pb	0.005	No Gas	0.005	165	17.2	0.04	
208	Pb	0.004	He	0.004	165	21.7	0.04	
238	U	0.015	No Gas	0.015	165	6.7	0.05	
238	U	0.011	He	0.011	165	18.1	0.05	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1136930.16	0.8	110.2	1032130.82
Sc	45	No Gas	2439351.75	1.6	112.8	2162593.66666667
Sc	45	He	236084.14	0.8	115.8	203936.956666667
Ge	72	No Gas	969408.59	1.2	110.2	879593.496666667
Ge	72	He	240813.49	1.0	113.7	211858.71
Ge	72	HEHe	108607.98	0.5	111.1	97789.2266666667
Rh	103	No Gas	2873188.83	0.7	102.1	2813334.33333333
Rh	103	He	2049773.39	1.0	104.2	1966417.766666667
Ho	165	No Gas	734756.52	0.2	90.2	814721.52
Ho	165	He	548037.86	0.9	95.8	571967.546666667

Sample Report

Sample Name Rinse
File Name 047_RIN.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:27:58
Sample Type RINSE
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fial Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1141145.62	4.2	110.6	1032130.82
Sc	45	No Gas	2413533.50	0.6	111.6	2162593.66666667
Sc	45	He	228917.94	0.8	112.2	203936.956666667
Ge	72	No Gas	986059.52	2.3	112.1	879593.496666667
Ge	72	He	237485.74	0.2	112.1	211858.71
Ge	72	HEHe	105506.54	1.3	107.9	97789.2266666667
Rh	103	No Gas	2880405.42	1.0	102.4	2813334.33333333
Rh	103	He	2028975.41	1.9	103.2	1966417.76666667
Ho	165	No Gas	733247.77	0.8	90.0	814721.52
Ho	165	He	543429.63	1.6	95.0	571967.546666667

Sample Report

Sample Name WDB0365-11
File Name 048_ARF.d
Data Path Name D:\Agilent\ICPMH\1\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:31:29
Sample Type AllRef
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.358	He	0.358	72	0.3	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	916613.04	1.6	104.2	879593.496666667
Ge	72	He	225297.04	0.5	106.3	211858.71
Ge	72	HEHe	104780.96	2.0	107.1	97789.226666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name BDB0420-MS1
File Name 049_LFM.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-16 18:33:50
Sample Type LFM
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fial Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	48.695	He	48.695	72	0.7	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	928519.31	0.8	105.6	879593.496666667
Ge	72	He	227869.40	1.1	107.6	211858.71
Ge	72	HEHe	105904.97	0.8	108.3	97789.226666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name BDB0420-MSD1
File Name 050LFMD.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:36:09
Sample Type LFMDDup
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	52.467	He	52.467	72	1.6	20	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	914428.94	0.5	104.0	879593.496666667
Ge	72	He	223413.79	0.9	105.5	211858.71
Ge	72	HEHe	104519.18	3.1	106.9	97789.226666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name WDB0365-12
File Name 051SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:38:27
Sample Type Sample
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fial Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.466	He	0.466	72	11.6	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	909739.17	1.6	103.4	879593.496666667
Ge	72	He	224200.90	0.9	105.8	211858.71
Ge	72	HEHe	104066.10	2.8	106.4	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name WDB0365-13
File Name 052SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:40:49
Sample Type Sample
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fial Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	9.693	He	9.693	72	0.8	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	815245.94	1.6	92.7	879593.496666667
Ge	72	He	220900.01	0.9	104.3	211858.71
Ge	72	HEHe	99928.77	0.9	102.2	97789.226666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name BDB0420-MS2
File Name 054_LFM.d
Data Path Name D:\Agilent\NCPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:45:26
Sample Type LFM
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	54.949	He	54.949	72	0.3	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	827383.50	0.9	94.1	879593.496666667
Ge	72	He	235663.44	0.2	111.2	211858.71
Ge	72	HEHe	104892.60	0.7	107.3	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name WDB0365-14
File Name 053_ARF.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:43:07
Sample Type AllRef
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	1.106	He	1.106	72	4.1	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.86666667
Sc	45	He				203936.956666667
Ge	72	No Gas	789614.73	2.6	89.8	879593.496666667
Ge	72	He	219246.63	0.7	103.5	211856.71
Ge	72	HEHe	98055.40	1.7	100.3	97789.226666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name BDB0420-MSD2
File Name 055LFMD.d
Data Path Name D:\Agilent\JCPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:47:46
Sample Type LFMDup
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	55.165	He	55.165	72	1.0	20	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	872834.27	3.0	99.2	879593.496666667
Ge	72	He	242080.77	0.2	114.3	211858.71
Ge	72	HEHe	107890.18	3.0	110.3	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name WDB0365-15
File Name 056SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:50:05
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Pass
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	1.074	He	1.074	72	0.6	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	886316.65	3.1	100.8	879593.496666667
Ge	72	He	252796.41	0.1	119.3	211858.71
Ge	72	HEHe	111530.98	1.2	114.1	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name WDB0485-01
File Name 057SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\R\XN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:52:23
Sample Type Sample
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fial Pass
ISTD QC Pass/Fail Fail
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	1.568	He	1.568	72	2.2	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203836.956666667
Ge	72	No Gas	1151574.12	0.9	130.9	879593.496666667
Ge	72	He	308449.77	0.5	145.6	211858.71
Ge	72	HEHe	136693.47	0.3	139.8	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name WDB0485-02
File Name 058SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:54:44
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fial Pass
ISTD QC Pass/Fail Fail
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	1.933	He	1.933	72	1.5	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	1101975.75	1.7	125.3	879593.496666667
Ge	72	He	294830.16	1.1	139.2	211858.71
Ge	72	HEHe	131933.35	1.5	134.9	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name WDB0485-03
File Name 059SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:57:02
Sample Type Sample
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Fail
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	1.432	He	1.432	72	4.4	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	1129417.17	0.7	128.4	879593.406666667
Ge	72	He	294592.07	1.6	139.1	211858.71
Ge	72	HEHe	131767.14	1.3	134.7	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name WDB0485-04
File Name 060SMPL.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 18:59:21
Sample Type Sample
Total Dilution 1.0000
Comment ---
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Fail
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.368	He	0.368	72	10.1	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.06666667
Sc	45	He				203936.956666667
Ge	72	No Gas	1119994.50	0.1	127.3	879593.496666667
Ge	72	He	291873.08	1.1	137.8	211858.71
Ge	72	HEHe	133495.96	2.2	136.5	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name BDB0420-BLK1
File Name 061_Blk.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 19:01:42
Sample Type Blank
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fial Fail
ISTD QC Pass/Fail Fail
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	0.172	He	0.172	72	8.1	0.06	>DL*2.2

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	1133457.71	3.2	128.9	879593.496666667
Ge	72	He	294749.76	0.9	139.1	211858.71
Ge	72	HEHe	136842.55	1.7	139.9	97789.226666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name BDB0420-BS1
File Name 062_LCS.d
Data Path Name D:\Agilent\CPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 19:04:01
Sample Type LCS
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fial Pass
ISTD QC Pass/Fail Fail
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
75	As	54.356	He	54.356	72	1.1	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas				1032130.82
Sc	45	No Gas				2162593.66666667
Sc	45	He				203936.956666667
Ge	72	No Gas	1121906.08	1.8	127.5	879593.496666667
Ge	72	He	291509.17	0.3	137.6	211858.71
Ge	72	HEHe	134204.77	0.3	137.2	97789.2266666667
Rh	103	No Gas				2813334.33333333
Rh	103	He				1966417.76666667
Ho	165	No Gas				814721.52
Ho	165	He				571967.546666667

Sample Report

Sample Name Rinse
File Name 063_RIN.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXM\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 19:06:19
Sample Type RINSE
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fial Pass
ISTD QC Pass/Fail Fail
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1165094.68	2.5	112.9	1032130.82
Sc	45	No Gas	2784231.33	1.5	128.7	2162593.66666667
Sc	45	He	278102.05	0.9	136.4	203936.956666667
Ge	72	No Gas	1120658.00	1.2	127.4	879593.496666667
Ge	72	He	287577.28	0.7	135.7	211858.71
Ge	72	HEHe	129299.98	1.2	132.2	97789.2266666667
Rh	103	No Gas	3220577.67	0.3	114.5	2813334.33333333
Rh	103	He	2290207.13	0.9	116.5	1966417.76666667
Ho	165	No Gas	794289.38	0.9	97.5	814721.52
Ho	165	He	611694.77	1.3	106.9	571967.546666667

Sample Report

Sample Name CCV
File Name 064_CC.V.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 19:09:51
Sample Type CCV
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Fail
ISTD QC Pass/Fail Fail
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	50.990	No Gas	50.99	6	2.0	50	
9	Be	52.482	No Gas	52.482	6	2.4	50	
11	B	60.168	No Gas	60.168	45	3.4	50	> +/- 10%
27	Al	100.759	No Gas	100.759	45	2.5	100	
27	Al	95.272	He	95.272	45	1.6	100	
47	Ti	47.333	He	47.333	45	2.8	50	
51	V	50.262	He	50.262	45	0.9	50	
52	Cr	48.312	He	48.312	45	1.1	50	
53	Cr	48.804	He	48.804	45	1.3	50	
55	Mn	49.608	No Gas	49.608	72	1.1	50	
55	Mn	49.050	He	49.05	72	0.7	50	
56	Fe	95.355	He	95.355	72	0.7	100	
56	Fe	98.052	HEHe	98.052	72	0.1	100	
57	Fe	94.237	He	94.237	72	3.4	100	
59	Co	48.237	He	48.237	72	0.5	50	
60	Ni	47.125	He	47.125	72	0.4	50	
62	Ni	46.586	He	46.586	72	1.0	50	
65	Cu	47.759	No Gas	47.759	72	1.5	50	
65	Cu	46.940	He	46.94	72	1.9	50	
66	Zn	48.202	He	48.202	72	1.9	50	
75	As	50.277	He	50.277	72	0.8	50	
78	Se	50.908	He	50.908	72	3.7	50	
88	Sr	46.312	No Gas	46.312	72	0.8	50	
88	Sr	47.946	He	47.946	72	1.3	50	
95	Mo	50.498	No Gas	50.498	103	1.5	50	
95	Mo	51.089	He	51.089	103	0.9	50	
98	Mo	50.168	No Gas	50.168	103	1.5	50	
98	Mo	51.615	He	51.615	103	2.7	50	
107	Ag	49.152	No Gas	49.152	103	1.5	50	
107	Ag	50.583	He	50.583	103	1.4	50	
109	Ag	49.128	No Gas	49.128	103	1.5	50	
109	Ag	50.409	He	50.409	103	1.3	50	
111	Cd	48.784	No Gas	48.784	103	0.8	50	

Sample Report

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
111	Cd	50.551	He	50.551	103	1.5	50	
114	Cd	48.884	No Gas	48.884	103	1.4	50	
114	Cd	50.427	He	50.427	103	1.1	50	
118	Sn	48.466	No Gas	48.466	103	1.0	50	
118	Sn	51.439	He	51.439	103	1.1	50	
123	Sb	52.466	No Gas	52.466	165	2.3	50	
137	Ba	53.325	No Gas	53.325	165	2.8	50	
137	Ba	50.622	He	50.622	165	2.5	50	
201	Hg	2.440	No Gas	2.44	165	1.7	2.5	
201	Hg	2.432	He	2.432	165	1.6	2.5	
202	Hg	2.412	No Gas	2.412	165	1.6	2.5	
202	Hg	2.413	He	2.413	165	1.9	2.5	
205	Tl	48.414	No Gas	48.414	165	1.1	50	
205	Tl	49.721	He	49.721	165	1.2	50	
208	Pb	45.556	No Gas	45.556	165	1.6	50	
208	Pb	46.226	He	46.226	165	1.0	50	
238	U	39.743	No Gas	39.743	165	1.9	50	> +/- 10%
238	U	39.235	He	39.235	165	0.9	50	> +/- 10%

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1142448.09	2.4	110.7	1032130.82
Sc	45	No Gas	2880592.83	1.5	133.2	2162593.66666667
Sc	45	He	282622.00	0.5	138.6	203936.956666667
Ge	72	No Gas	1148371.58	0.8	130.6	879593.496666667
Ge	72	He	289846.27	0.7	136.8	211858.71
Ge	72	HEHe	127959.60	1.1	130.9	97789.2266666667
Rh	103	No Gas	3234666.83	0.5	115.0	2813334.33333333
Rh	103	He	2332171.64	0.7	118.6	1966417.76666667
Ho	165	No Gas	781084.89	1.1	95.9	814721.52
Ho	165	He	609756.94	1.3	106.6	571967.546666667

Sample Report

Sample Name CCB
File Name 065_CCB.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 19:13:20
Sample Type CCB
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Fail
ISTD QC Pass/Fail Fail
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
7	Li	<0.000	No Gas	-0.01	6	0.6	0.5	
9	Be	0.002	No Gas	0.002	6	50.0	0.05	
11	B	17.511	No Gas	17.511	45	1.6	1.69	>DL*2.2
27	Al	<0.000	No Gas	-0.14	45	2.3	1.57	
27	Al	0.103	He	0.103	45	18.0	1.57	
47	Ti	0.086	He	0.086	45	114.6	0.23	
51	V	0.103	He	0.103	45	10.8	0.28	
52	Cr	<0.000	He	-0.001	45	19.0	0.04	
53	Cr	0.335	He	0.335	45	12.7	0.04	>DL*2.2
55	Mn	0.264	No Gas	0.264	72	1.8	0.05	>DL*2.2
55	Mn	0.019	He	0.019	72	3.6	0.05	
56	Fe	<0.000	He	-0.004	72	1.7	1.59	
56	Fe	0.299	HEHe	0.299	72	3.6	1.59	
57	Fe	0.307	He	0.307	72	4.7	1.59	
59	Co	<0.000	He	-0.01	72	65.8	0.02	
60	Ni	<0.000	He	-0.125	72	2.1	0.08	
62	Ni	<0.000	He	-0.257	72	7.7	0.08	
65	Cu	<0.000	He	-0.068	72	2.4	0.03	
66	Zn	<0.000	He	-0.108	72	6.2	0.3	
75	As	0.043	He	0.043	72	18.2	0.06	
78	Se	1.815	He	1.815	72	6.2	0.17	>DL*2.2
88	Sr	0.022	No Gas	0.022	72	3.4	0.02	
88	Sr	0.019	He	0.019	72	14.8	0.02	
95	Mo	0.126	No Gas	0.126	103	18.4	0.05	>DL*2.2
95	Mo	0.182	He	0.182	103	19.4	0.05	>DL*2.2
98	Mo	0.101	No Gas	0.101	103	18.7	0.05	
98	Mo	0.210	He	0.21	103	8.3	0.05	>DL*2.2
107	Ag	0.002	No Gas	0.002	103	37.1	0.03	
107	Ag	<0.000	He	-0.001	103	19.2	0.03	
109	Ag	0.003	No Gas	0.003	103	61.0	0.03	
109	Ag	0.003	He	0.003	103	59.2	0.03	
111	Cd	<0.000	No Gas	-0.002	103	-5610.9	0.01	
111	Cd	0.004	He	0.004	103	24.7	0.01	

Sample Report

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
114	Cd	<0.000	No Gas	-0.001	103	99.0	0.01	
114	Cd	0.008	He	0.008	103	12.1	0.01	
118	Sn	0.166	No Gas	0.166	103	4.5	0.04	>DL*2.2
118	Sn	0.180	He	0.18	103	13.1	0.04	>DL*2.2
123	Sb	0.707	No Gas	0.707	165	7.6	0.05	>DL*2.2
137	Ba	0.021	No Gas	0.021	165	4.0	0.05	
137	Ba	0.038	He	0.038	165	6.3	0.05	
201	Hg	0.019	No Gas	0.019	165	19.8	0.01	
201	Hg	0.013	He	0.013	165	0.0	0.01	
202	Hg	0.019	No Gas	0.019	165	15.5	0.01	
202	Hg	0.017	He	0.017	165	4.2	0.01	
205	Tl	0.005	No Gas	0.005	165	9.8	0.05	
205	Tl	<0.000	He	0	165	8.4	0.05	
208	Pb	0.002	No Gas	0.002	165	13.9	0.04	
208	Pb	0.001	He	0.001	165	12.4	0.04	
238	U	0.014	No Gas	0.014	165	6.8	0.05	
238	U	0.006	He	0.006	165	20.9	0.05	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1163195.34	2.2	112.7	1032130.82
Sc	45	No Gas	2772491.67	2.6	128.2	2162593.66666667
Sc	45	He	275072.43	1.0	134.9	203936.956666667
Ge	72	No Gas	1100051.12	0.0	125.1	879593.496666667
Ge	72	He	280278.35	0.6	132.3	211858.71
Ge	72	HEHe	125836.71	0.7	128.7	97789.2266666667
Rh	103	No Gas	3108208.00	1.4	110.5	2813334.33333333
Rh	103	He	2309374.98	0.9	117.4	1966417.76666667
Ho	165	No Gas	777558.21	2.3	95.4	814721.52
Ho	165	He	592111.50	1.4	103.5	571967.546666667

Sample Report

Sample Name Rinse
File Name 066_RIN.d
Data Path Name D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02152023 HIGH MATRIX.b
Acq Time 2023-02-15 19:16:54
Sample Type RINSE
Total Dilution 1.0000
Comment —
ISTD Ref FileName 003CALB.d
Sample QC Pass/Fail Pass
ISTD QC Pass/Fail Fail
Operator JLG

QC Analyte Table

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
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QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1166749.34	4.8	113.0	1032130.82
Sc	45	No Gas	2719501.67	1.7	125.8	2162593.66666667
Sc	45	He	263430.94	0.6	129.2	203936.956666667
Ge	72	No Gas	1107913.42	1.7	126.0	879593.496666667
Ge	72	He	274617.24	0.5	129.6	211858.71
Ge	72	HEHe	125338.12	0.7	128.2	97789.2266666667
Rh	103	No Gas	3087565.83	1.3	109.7	2813334.33333333
Rh	103	He	2275577.34	1.8	115.7	1966417.76666667
Ho	165	No Gas	777347.15	0.4	95.4	814721.52
Ho	165	He	594386.29	1.1	103.9	571967.546666667

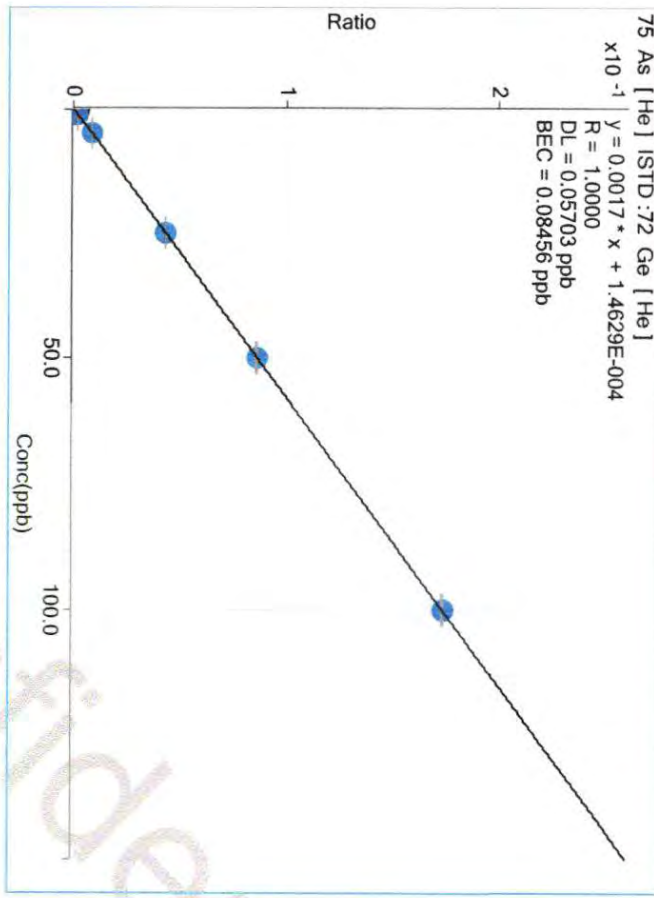
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1			001CALB.	2023-02-15 15:50:18	CalBlk	1	Blank		1.0000	1101
2			002CALB.	2023-02-15 15:54:15	CalBlk	1	Blank		1.0000	1101
3			003CALB.	2023-02-15 15:58:08	CalBlk	1	Blank		1.0000	1101
4			004CAL.S.	2023-02-15 16:02:03	CalStd	2	1 ppb cal		1.0000	1103
5			005CAL.S.	2023-02-15 16:05:56	CalStd	3	5 ppb cal		1.0000	1104
6			006CAL.S.	2023-02-15 16:09:52	CalStd	4	25 ppb cal		1.0000	1105
7			007CAL.S.	2023-02-15 16:13:46	CalStd	5	50 ppb cal		1.0000	1106
8			008CAL.S.	2023-02-15 16:17:41	CalStd	6	100 ppb cal		1.0000	1107
9			009_RIN.d	2023-02-15 16:29:28	RINSE		Rinse		1.0000	4
10			010_ICB.d	2023-02-15 16:32:59	ICB		ICB		1.0000	1101
11			011_ICV.d	2023-02-15 16:36:33	ICV		ICV- 40ppb		1.0000	2101
12			012_LDR.d	2023-02-15 16:40:30	LDR		Daily LDR- 500pp		1.0000	2102
13			013_RIN.d	2023-02-15 16:43:33	RINSE		Rinse		1.0000	4
14			014_RIN.d	2023-02-15 16:47:06	RINSE		Rinse		1.0000	4
15			015_RIN.d	2023-02-15 16:50:40	RINSE		Rinse		1.0000	4
16			016_RIN.d	2023-02-15 16:54:14	RINSE		Rinse		1.0000	5
17			017_Blk.d	2023-02-15 16:57:49	Blank		BDB0496-BLK1		1.0000	3101
18			018LICV.d	2023-02-15 17:01:22	LLICV		BDB0469-MRL1		1.0000	3102
19			019_LCS.d	2023-02-15 17:04:56	LCS		BDB0469-BS1		1.0000	3103
20			020_ARF.d	2023-02-15 17:08:28	AllRef		WDB0568-01		1.0000	3104
21			021_LFM.d	2023-02-15 17:12:00	LFM		BDB0496-MS1		1.0000	3105
22			022LFMD.	2023-02-15 17:15:30	LFMDup		BDB0469-MSD1		1.0000	3106
23			023SMPL.	2023-02-15 17:19:01	Sample		WDB0620-01		1.0000	3107
24			024SMPL.	2023-02-15 17:22:32	Sample		WDB0622-01		1.0000	3108
25			025_Blk.d	2023-02-15 17:26:04	Blank		BDB0496-BLK1		1.0000	3109

Sample		Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
26			026_LCS.d	2023-02-15 17:29:35	LCS		BDB0469-BS1		1.0000	3110
27			027_RIN.d	2023-02-15 17:33:07	RINSE		Rinse		1.0000	4
28			028_CCV	2023-02-15 17:36:37	CCV		CCV		1.0000	1106
29			029_CCB	2023-02-15 17:40:09	CCB		CCB		1.0000	1101
30			030_RIN.d	2023-02-15 17:43:40	RINSE		Rinse		1.0000	5
31			031_BlK.d	2023-02-15 17:47:14	Blank		BDB0420-BLK1		1.0000	3201
32			032LLICV.d	2023-02-15 17:49:32	LLICV		BDB0420-MRL1		1.0000	3202
33			033_LCS.d	2023-02-15 17:51:51	LCS		BDB0420-BS1		1.0000	3203
34			034SMP.L	2023-02-15 17:54:11	Sample		WDB0365-01		1.0000	3204
35			035SMP.L	2023-02-15 17:56:30	Sample		WDB0365-02		1.0000	3205
36			036SMP.L	2023-02-15 17:58:49	Sample		WDB0365-03		1.0000	3206
37			037SMP.L	2023-02-15 18:01:10	Sample		WDB0365-04		1.0000	3207
38			038SMP.L	2023-02-15 18:03:29	Sample		WDB0365-05		1.0000	3208
39			039SMP.L	2023-02-15 18:05:47	Sample		WDB0365-06		1.0000	3209
40			040SMP.L	2023-02-15 18:08:07	Sample		WDB0365-07		1.0000	3210
41			041SMP.L	2023-02-15 18:10:26	Sample		WDB0365-08		1.0000	3211
42			042SMP.L	2023-02-15 18:12:44	Sample		WDB0365-09		1.0000	3212
43			043SMP.L	2023-02-15 18:15:05	Sample		WDB0365-10		1.0000	3301
44			044_RIN.d	2023-02-15 18:17:23	RINSE		Rinse		1.0000	4
45			045_CCV	2023-02-15 18:20:55	CCV		CCV		1.0000	1106
46			046_CCB	2023-02-15 18:24:25	CCB		CCB		1.0000	1101
47			047_RIN.d	2023-02-15 18:27:58	RINSE		Rinse		1.0000	5
48			048_ARF.d	2023-02-15 18:31:29	AllRef		WDB0365-11		1.0000	3302
49			049_LFM.d	2023-02-15 18:33:50	LFM		BDB0420-MS1		1.0000	3303
50			050LFMD.	2023-02-15 18:36:09	LFMDup		BDB0420-MSD1		1.0000	3304

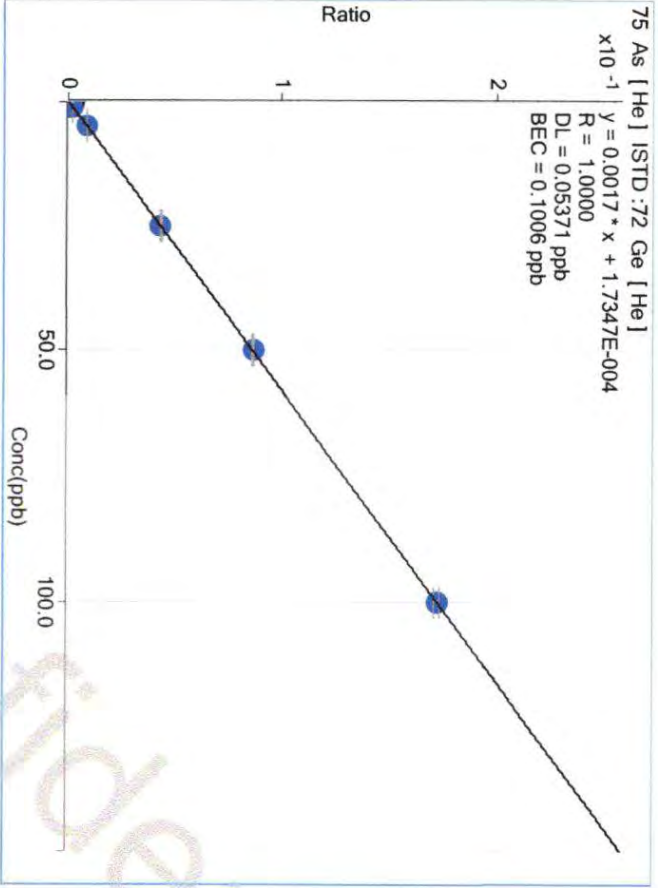
Sample		Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
51			051SMPL.	2023-02-15 18:38:27	Sample		WDB0365-12		1.0000	3305
52			052SMPL.	2023-02-15 18:40:49	Sample		WDB0365-13		1.0000	3306
53			053_ARF.d	2023-02-15 18:43:07	AllRef		WDB0365-14		1.0000	3307
54			054_LFM.d	2023-02-15 18:45:26	LFM		BDB0420-MS2		1.0000	3308
55			055LFMD.	2023-02-15 18:47:46	LFMDup		BDB0420-MSD2		1.0000	3309
56			056SMPL.	2023-02-15 18:50:05	Sample		WDB0365-15		1.0000	3310
57			057SMPL.	2023-02-15 18:52:23	Sample		WDB0485-01		1.0000	3311
58			058SMPL.	2023-02-15 18:54:44	Sample		WDB0485-02		1.0000	3312
59			059SMPL.	2023-02-15 18:57:02	Sample		WDB0485-03		1.0000	3401
60			060SMPL.	2023-02-15 18:59:21	Sample		WDB0485-04		1.0000	3402
61			061_Blk.d	2023-02-15 19:01:42	Blank		BDB0420-BLK1		1.0000	3403
62			062_LCS.d	2023-02-15 19:04:01	LCS		BDB0420-BS1		1.0000	3404
63			063_RIN.d	2023-02-15 19:06:19	RINSE		Rinse		1.0000	4
64			064_CCV.	2023-02-15 19:09:51	CCV		CCV		1.0000	1106
65			065_CCB.	2023-02-15 19:13:20	CCB		CCB		1.0000	1101
66			066_RIN.d	2023-02-15 19:16:54	RINSE		Rinse		1.0000	5
67			067_RIN.d	2023-02-15 19:20:24	RINSE		Rinse		1.0000	4
68			068_CCV.	2023-02-15 19:23:56	CCV		CCV		1.0000	1106
69			069_CCB.	2023-02-15 19:27:26	CCB		CCB		1.0000	1101
70			070_RIN.d	2023-02-15 19:30:59	RINSE		Rinse		1.0000	5
71			071_RIN.d	2023-02-15 19:34:30	RINSE		Rinse		1.0000	5
72			072_RIN.d	2023-02-15 19:38:03	RINSE		Rinse		1.0000	5

75 As [He] ISTD:72 Ge [He]

$y = 0.0017 \cdot x + 1.4629E-004$
R = 1.0000
DL = 0.05703 ppb
BEC = 0.08456 ppb



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Sample	Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
1	✓	001CALB.	2023-02-16 09:48:20	CalBik	1	Bla nk		1.0000	1101
2	✓	002CALB.	2023-02-16 09:50:41	CalBik	1	Bla nk		1.0000	1101
3	✓	003CALB.	2023-02-16 09:52:59	CalBik	1	Bla nk		1.0000	1101
4	✓	004CALB.	2023-02-16 09:57:36	CalBik	1	Bla nk		1.0000	1101
5	✓	005CALB.	2023-02-16 09:59:54	CalBik	1	Bla nk		1.0000	1101
6	✓	006CALB.	2023-02-16 10:02:12	CalBik	1	Bla nk		1.0000	1101
7	✓	007CALB.	2023-02-16 10:04:32	CalBik	1	Bla nk		1.0000	1101
8	✓	008CAL.S.	2023-02-16 10:06:50	CalStd	2	1 ppb cal		1.0000	1103
9	✓	009CAL.S.	2023-02-16 10:09:08	CalStd	3	5 ppb cal		1.0000	1104
10	✓	010CAL.S.	2023-02-16 10:11:28	CalStd	4	25 ppb cal		1.0000	1105
11	✓	011CAL.S.	2023-02-16 10:13:46	CalStd	5	50 ppb cal		1.0000	1106
12	✓	012CAL.S.	2023-02-16 10:16:04	CalStd	6	100 ppb cal		1.0000	1107
13	✓	013_RIN.d	2023-02-16 10:20:37	RINSE		Rinse		1.0000	4
14	✓	014_ICV.d	2023-02-16 10:22:55	ICV		CV 40ppb		1.0000	2101
15	✓	015_LDR.d	2023-02-16 10:30:31	LDR		Dialy LDR- 500pp		1.0000	2102
16	✓	016_RIN.d	2023-02-16 10:32:48	RINSE		Rinse		1.0000	4
17	✓	017_RIN.d	2023-02-16 10:35:06	RINSE		Rinse		1.0000	4
18	✓	018_RIN.d	2023-02-16 10:37:26	RINSE		Rinse		1.0000	4
19	✓	019_BIK.d	2023-02-16 10:39:46	Blank		0420-BLK1		1.0000	3101
20	✓	020_LCV.d	2023-02-16 10:42:05	LLCV		0420-MRL1		1.0000	3102
21	✓	021_LCS.d	2023-02-16 10:44:26	LCS		0420-BS1		1.0000	3103
22	✓	022SMPL.	2023-02-16 10:46:44	Sample		0485-04		1.0000	3104
23	✓	023SMPL.	2023-02-16 10:49:02	Sample		0485-03		1.0000	3105
24	✓	024SMPL.	2023-02-16 10:51:23	Sample		0485-02		1.0000	3106
25	✓	025SMPL.	2023-02-16 10:53:41	Sample		0485-01		1.0000	3107

Sample		Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number		
+	26	✓	026_ARF.d	2023-02-16 10:56:00	AllRef		WDB0365-11		1.0000	3108		
+	27	✓	027_LFM.d	2023-02-16 10:58:20	LFM		BDB0420-MS1		1.0000	3109		
+	28	✓	028LFMD.	2023-02-16 11:00:38	LFMDup		BDB0420-MSD1		1.0000	3110		
+	29	✓	029_Blk.d	2023-02-16 11:02:57	Blank		BDB0420-BLK1		1.0000	3111		
+	30	✓	030_LCS.d	2023-02-16 11:05:17	LCS		BDB0420-BS1		1.0000	3112		
+	31	✓	031_RIN.d	2023-02-16 11:07:35	RINSE		Rinse		1.0000	4		
+	32	✓	032_CCV.	2023-02-16 11:09:53	CCV		CCV		1.0000	1106		
+	33	✓	033_CCB.	2023-02-16 11:12:13	CCB		CCB		1.0000	1101		
+	34	✓	034_RIN.d	2023-02-16 11:22:12	RINSE		Rinse		1.0000	5		
+	35	✓	035_RIN.d	2023-02-16 11:24:30	RINSE		Rinse		1.0000	4		
+	36	✓	036_CCV.	2023-02-16 11:26:48	CCV		CCV		1.0000	1106		
+	37	✓	037_CCB.	2023-02-16 11:29:08	CCB		CCB		1.0000	1101		
+	38	✓	038_RIN.d	2023-02-16 11:31:27	RINSE		Rinse		1.0000	5		
+	39	✓	039_RIN.d	2023-02-16 11:33:45	RINSE		Rinse		1.0000	5		
+	40	✓	040_RIN.d	2023-02-16 11:36:05	RINSE		Rinse		1.0000	5		
Analyte												
	Name	Mass	ISTD	Tune Mode	CPS	CPS RSD	Conc.	Units	Conc. RSD	Integ Time	Replicate	QC Measured Val...
+	1	Li	7	6	No Gas			ppb			0	
+	2	Be	9	6	No Gas			ppb			0	
+	3	B	11	45	No Gas			ppb			0	
+	4	Al	27	45	No Gas			ppb			0	
+	5	Al	27	45	He			ppb			0	
+	6	Ti	47	45	He			ppb			0	
+	7	V	51	45	He			ppb			0	

Analyte													
Name	Mass	ISTD	Tune Mode	CPS	CPS RSD	Conc.	Units	Conc. RSD	Integ Time	Replicate	QC Measured Val...		
8	Cr	52	45	He			ppb			0			
9	Cr	53	45	He			ppb			0			
10	Mn	55	72	No Gas			ppb			0			
11	Mn	55	72	He			ppb			0			
12	Fe	56	72	He			ppb			0			
13	Fe	56	72	HEHe			ppb			0			
14	Fe	57	72	No Gas			ppb			0			
15	Fe	57	72	He			ppb			0			
16	Co	59	72	He			ppb			0			
17	Ni	60	72	He			ppb			0			
18	Ni	62	72	He			ppb			0			
19	Cu	65	72	No Gas			ppb			0			
20	Cu	65	72	He			ppb			0			
21	Zn	66	72	He			ppb			0			
22	As	75	72	No Gas	94	1.6	ppb		5.0000	3			
23	As	75	72	He	43	29.1	ppb	N/A	1.0000	3	0.0		
24	Se	78	72	He			ppb			0			
25	Se	82	72	He			ppb			0			
26	Sr	88	72	No Gas			ppb			0			
27	Sr	88	72	He			ppb			0			
28	Mo	95	103	No Gas			ppb			0			
29	Mo	95	103	He			ppb			0			
30	Mo	98	103	No Gas			ppb			0			
31	Mo	98	103	He			ppb			0			
32	Ag	107	103	No Gas			ppb			0			

Analyte												
Name	Mass	ISTD	Tune Mode	CPS	CPS RSD	Conc.	Units	Conc. RSD	Integ Time	Replicate	QC Measured Val...	
33	Ag	107	103	He			ppb			0		
34	Ag	109	103	No Gas			ppb			0		
35	Ag	109	103	He			ppb			0		
36	Cd	111	103	No Gas			ppb			0		
37	Cd	111	103	He			ppb			0		
38	Cd	114	103	No Gas			ppb			0		
39	Cd	114	103	He			ppb			0		
40	Sn	118	103	No Gas			ppb			0		
41	Sn	118	103	He			ppb			0		
42	Sb	123	165	No Gas			ppb			0		
43	Sb	123	165	He			ppb			0		
44	Ba	137	165	No Gas			ppb			0		
45	Ba	137	165	He			ppb			0		
46	Hg	201	165	No Gas			ppb			0		
47	Hg	201	165	He			ppb			0		
48	Hg	202	165	No Gas			ppb			0		
49	Hg	202	165	He			ppb			0		
50	Tl	205	165	No Gas			ppb			0		
51	Tl	205	165	He			ppb			0		
52	Pb	208	165	No Gas			ppb			0		
53	Pb	208	165	He			ppb			0		
54	U	238	165	No Gas			ppb			0		
55	U	238	165	He			ppb			0		
56	Li	6		No Gas			cps			0		
57	Sc	45		No Gas			cps			0		

Analyte												
Name	Mass	ISTD	Tune Mode	CPS	CPS RSD	Conc.	Units	Conc. RSD	Integ Time	Replicate	QC Measured Val...	
58	Sc	45	He				cps			0		
59	Ge	72	No Gas	94	1.3		cps		0.5000	3	98.9	
60	Ge	72	He	24	0.7		cps		0.3000	3	100.4	
61	Ge	72	HEHe	10	0.3		cps		0.3000	3	99.8	
62	Rh	103	No Gas				cps			0		
63	Rh	103	He				cps			0		
64	Ho	165	No Gas				cps			0		
65	Ho	165	He				cps			0		

Confidential

US EPA Tune Check Report

Operator Name Metals
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\02162023 HIGH MATRIX.b
Acq. Date-Time 2023-02-16 09:34:33
Report Comment ---
Instrument Name 7800 JP17450949

[No Gas]

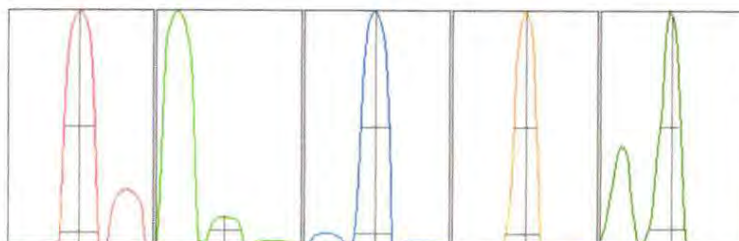
Sensitivity

Mass	Count	CPS	RSD%	RSD% (Required)	RSD% (Flag)
9	1534	15336.39	0.660	5.000	
24	6180	61800.12	0.775	5.000	
59	6406	64058.86	0.650	5.000	
115	6943	69429.43	1.013	5.000	
208	3020	30197.88	1.061	5.000	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	1544	1519	1537	1540	1528
24	6220	6233	6115	6176	6156
59	6438	6351	6381	6406	6454
115	7062	6923	6935	6876	6919
208	3061	3025	3037	2985	2991

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)	W-5%	W-5% (Required)	W-5% (Flag)
9	2478.61	9.00	8.90 - 9.10		0.787	0.900	
24	9823.29	23.95	23.90 - 24.10		0.785	0.900	
59	11161.47	59.00	58.90 - 59.10		0.769	0.900	
115	14676.08	115.05	114.90 - 115.10		0.712	0.900	
208	6762.26	208.00	207.90 - 208.10		0.737	0.900	

Integration Time [sec] = 0.1 Acquisition Time [sec] = 168.5 Y Axis = Linear

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.36 L/min	Dilution Gas	0.61 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.20 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

US EPA Tune Check Report

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.6 V	Deflect	11.6 V
Extract 2	-165.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-90 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	—	OctP RF	200 V		

QP Parameters

Mass Gain	157	Axis Gain	1.0022	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	0.08		

Hardware Settings

Torch

Torch H	0.5 mm	Torch V	-0.5 mm
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EM

Discriminator	3.8 mV	Analog HV	2175 V	Pulse HV	1423 V
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US EPA Tune Check Report

Operator Name Metals
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\Method Batches\R\XN\Sequences\02152023 HIGH MATRIX.b
Acq. Date-Time 2023-02-15 15:35:07
Report Comment ---
Instrument Name 7800 JP17450949

[No Gas]

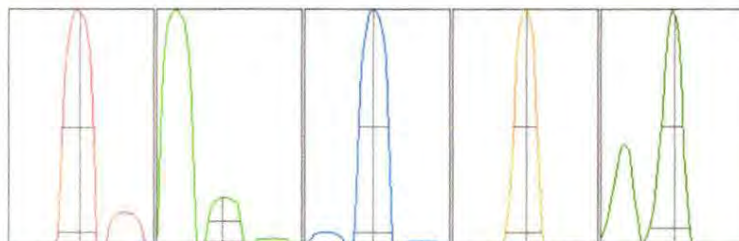
Sensitivity

Mass	Count	CPS	RSD%	RSD% (Required)	RSD% (Flag)
9	1500	15003.19	0.338	5.000	
24	5866	58664.66	0.574	5.000	
59	6407	64068.62	0.397	5.000	
115	7341	73410.05	0.557	5.000	
208	3694	36943.59	0.965	5.000	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	1500	1498	1509	1495	1499
24	5842	5893	5822	5874	5901
59	6392	6400	6376	6430	6435
115	7344	7296	7406	7320	7340
208	3747	3666	3706	3657	3696

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)	W-5%	W-5% (Required)	W-5% (Flag)
9	2397.58	9.00	8.90 - 9.10		0.790	0.900	
24	9049.60	23.90	23.90 - 24.10		0.822	0.900	
59	10765.19	58.95	58.90 - 59.10		0.781	0.900	
115	14852.07	115.05	114.90 - 115.10		0.758	0.900	
208	7730.65	208.05	207.90 - 208.10		0.823	0.900	

Integration Time [sec] = 0.1 Acquisition Time [sec] = 168.5 Y Axis = Linear

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.36 L/min	Dilution Gas	0.61 L/min
RF Power	1600 W	Option Gas	—	Auxiliary Gas	0.90 L/min
RF Matching	1.20 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

US EPA Tune Check Report

Lens Parameters

Extract 1	0.0 V	Omega Lens	7.2 V	Deflect	11.8 V
Extract 2	-160.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-80 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	—	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	—	OctP RF	200 V		

QP Parameters

Mass Gain	158	Axis Gain	1.0030	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	0.04		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.6 mm
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EM

Discriminator	3.8 mV	Analog HV	2175 V	Pulse HV	1423 V
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Starting sequence Mon Feb 13 16:19:22 2023

Instrument Name: MSD4

Sequence File: T:\DATA1\MSD4\SEQUENCES\2022\021223.S

Comment: CARDNO 625 MISC

Operator: MAH

Data Path: T:\DATA1\MSD4\2023\FEB\13CARD\

Method Path: C:\MSDCHEM\1\METHODS\

Line	Type	Vial	DataFile	Method	Sample Name
1)	Sample	1	00101001	SVOCT1	SYS
2)	Sample	2	00201002	CARDSIM	CARDNO 10 PPM
3)	Sample	3	00301003	CARDSIM	CARDNO 5 PPM
4)	Sample	4	00401004	CARDSIM	CARDNO 2.5 PPM
5)	Sample	5	00501005	CARDSIM	CARDNO 1 PPM
6)	Sample	6	00601006	CARDSIM	CARDNO 0.5 PPM
7)	Sample	7	00701007	CARDSIM	CARDNO 0.1 PPM
8)	Sample	8	00801008	CARDSIM	CARDNO 0.05 PPM
9)	Sample	11	01101009	CARDSIM	BDB0425-BS1
10)	Sample	12	01201010	CARDSIM	BDB0425-BSD1
11)	Sample	21	02101011	CARDSIM	BDB0426-BS1
12)	Sample	22	02201012	CARDSIM	BDB0426-BSD1
13)	Sample	1	00101013	SVOCT1	SYS
14)	Sample	13	01301014	CARDSIM	BDB0425-BLK1
15)	Sample	23	02301015	CARDSIM	BDB0426-BLK1
16)	Sample	14	01401016	CARDSIM	WDA1107-14
17)	Sample	15	01501017	CARDSIM	WDA1107-15
18)	Sample	16	01601018	CARDSIM	WDA1107-17
19)	Sample	24	02401019	CARDSIM	WDB0365-12
20)	Sample	25	02501020	CARDSIM	WDB0365-13
21)	Sample	26	02601021	CARDSIM	WDB0365-14
22)	Sample	27	02701022	CARDSIM	WDB0365-15

Sequence completed Tue Feb 14 02:17:59 2023

T:\DATA1\MSD4\2023\FEB\13CARD\2023 Feb 13 1619 Quality Log.LOG

T:\DATA1\MSD4\2023\FEB\13CARD\2023 Feb 13 1619 Sequence Log .LOG



Anatek Labs, Inc

1282 Alturas Drive
Moscow, ID 83843

1,4-Dioxane Cal. Standard Prep. Form

Method: EPA 625.1/8270D

IS/Surrogate Standards

Standard	Reagent ID	Expiration	Concentration (ppm)
CLP B/N Surrogate	2101009	3/23	1000
CLP Internal Standard	2201012	3/23	2000


Target Compound Standards

Standard	Reagent ID	Expiration	Concentration (ppm)
Chlorpyrifos	2003215	6/23	1000
Metolachlor	2003216	3/23	1000
Atrazine	2003218	11/24	1000

Calibration Dilution Template

Desired Concentration (ppm)	Stock Concentration (ppm) **	uL Standard Added	Final Volume (uL)
10	100	100	1000
5	100	50	1000
2.5	100	25	1000
1.0	100	10	1000
0.5	100	5	1000
0.1	100	1	1000
0.05	100	0.5	1000

Calibration made from target compound standards in the table. 25 uL of surrogate and 10 uL of IS stock added to each standard point. Dilutions were made in MeCl₂ (2200721).

Analyst Initials: 

Date of Preparation: 1/05/23 by MAH

Form CS06.00 - Eff 9 Mar 2015

Page 1 of 1

Internal Standard ICal Average Responses

	CARDNO 021323 (method)						
	1,4 Dichlorobenzene-d4	Naphthalene-d8	Acenaphthene-d10	Phenanthrene-d10	Chrysene-d12	Perylene-d12	
0.05	23640745.99		29194263.63		26981339.48		
10	24974773.03		30544892.38		27380200.68		
5	27423796.02		32574677.5		29516142.6		
2.5	26169753.28		32040849.17		31983475.86		
1	25443959.49		31243188.01		28196867.79		
0.5	25715150.68		31828076.81		29590115.94		
0.1	24274031.79		29918867.11		24454229.31		
Average	25377459	#DIV/0!	31049259	#DIV/0!	28300339	#DIV/0!	

50% 12688729 #DIV/0! 15524630 #DIV/0! 14150169 #DIV/0!
 150% 38066188 #DIV/0! 46573889 #DIV/0! 42450508 #DIV/0!

Analyst: MAH

Method Path : F:\msd4\MSD4\METHODS\2023A
 Method File : Gardo-0213.M
 Title : EPA 8270D - GC MSD4
 Last Update : Tue Feb 14 10:08:29 2023
 Response Via : Initial Calibration

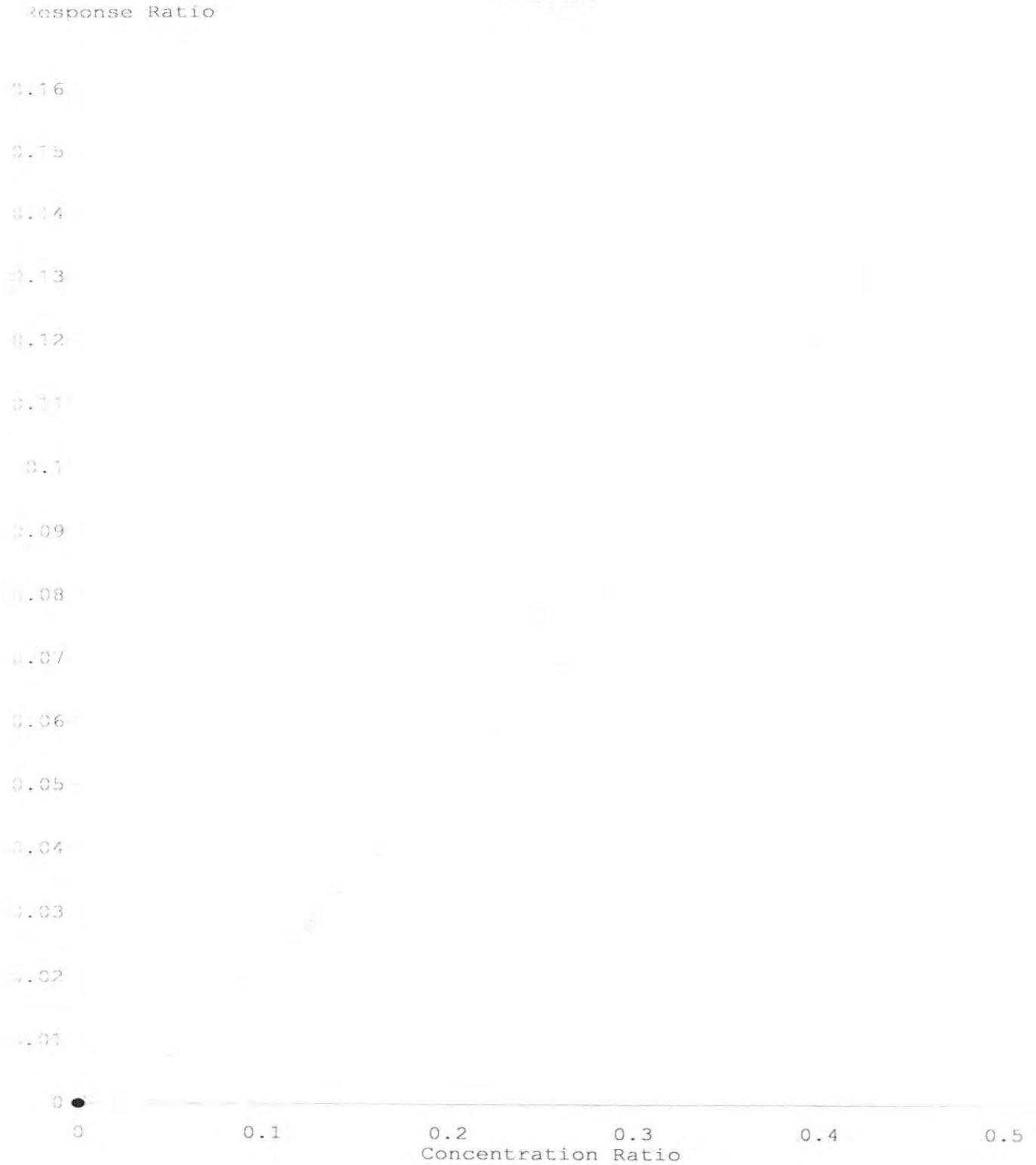
Calibration Files

0.05=00801008.D 10 =00201002.D 5 =00301003.D 2.5 =00401004.D 1 =00501005.D 0.5 =00601006.D
 0.1 =00701007.D

Compound	0.05	10	5	2.5	1	0.5	0.1	Avg	%RSD
1) I Dichlorobenzene-d5									
2) S 2-Fluorobiphenyl	1.731	1.803	1.687	1.746	1.787	1.763	1.759	1.754	2.16
3) I Acenaphthene-d10									
4) Atrazine	0.120	0.323	0.304	0.223	0.168	0.140	0.102	0.197	44.97
5) Metolachlor	0.326	0.798	0.746	0.598	0.428	0.360	0.263	0.503	42.16
6) Chlorpyrifos	0.088	0.170	0.164	0.139	0.115	0.107	0.070	0.122	30.94
7) I Chrysene-d12									
8) S Terphenyl-d14	0.838	0.910	0.868	0.837	0.897	0.867	0.938	0.879	4.27

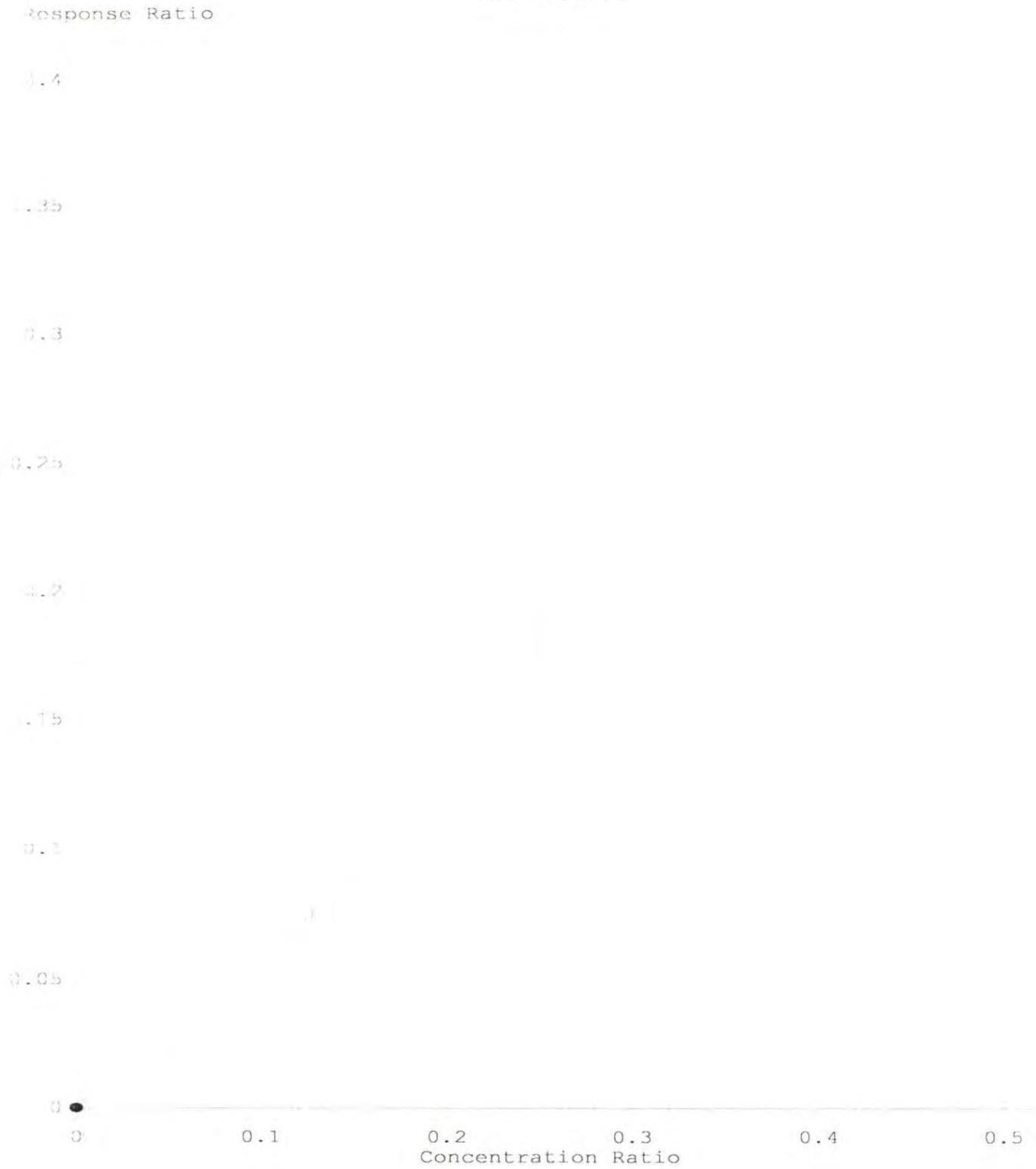
(#) = Out of Range

Atrazine



$y = 2.70e-001 A^2 + 1.97e-001 A + 0.00e+000$
Coef of Det (r^2) = 0.993 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
Calibration Table Last Updated: Tue Feb 14 10:08:29 2023

Metolachlor



* $6.08e-001 A^2 + 5.13e-001 A + 0.00e+000$
Coef of Det (r^2) = 0.994 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
Calibration Table Last Updated: Tue Feb 14 10:08:29 2023

Chlorpyrifos

Response Ratio

8.00e-002

7.00e-002

6.00e-002

5.00e-002

4.00e-002

3.00e-002

2.00e-002

1.00e-002

0

0

0.1

0.2

0.3

0.4

0.5

Concentration Ratio

9.16e-002 A*A + 1.28e-001 A + 0.00e+000
Coeff of Det (r^2) = 0.997 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
Calibration Table Last Updated: Tue Feb 14 10:08:29 2023

PREPARATION BENCH SHEET

Organics

BDB0425

Matrix: Water

Prepared using: SVOC - SVOC Water

Analyses
SVOC 625 MISC

Spiking Solution(s)
2201385 Cardno Spk 100

Surrogate Solution(s)
2201008 CLP Acid Surr 2000
2202928 CLP B/N 1000

Analysis	Lab Number	Sample and Source ID	Date Due	Extract by	Prepared - By	Initial (mL)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments
QC	BDB0425-BLK1	Blank			1/30/23 0:40 MAH	1000	1		25	
QC	BDB0425-BS1	LCS			1/30/23 0:40 MAH	1000	1	50	25	
QC	BDB0425-BSD1	LCS Dup			1/30/23 0:40 MAH	1000	1	50	25	
SVOC 625 MISC	WDA1107-14	WW-3	02/07/2023	01/30/2023	1/30/23 0:40 MAH	1000	1		25	
SVOC 625 MISC	WDA1107-15	E-2	02/07/2023	01/30/2023	1/30/23 0:40 MAH	1000	1		25	
SVOC 625 MISC	WDA1107-17	E-1 DUP	02/07/2023	01/30/2023	1/30/23 0:40 MAH	1000	1		25	

Reagents		
Standard	Description	LotNum
2000154	Acetone - GC grade	59074
2000155	H2SO4	58115
2200634	Dichloromethane	SHBP1472
2201798	CLP I.S. Spike 2000	042121

Batch Comments:

Acidic start/stop time: 3PM - 8AM
 Basic start/stop time: 8AM - 3PM
 Instrument: 7890/5975 GCMS
 Ext. Method: 3520C liq-liq/Waste Dilution/Microextr
 TurboVap: 01
 Balance: 04



Analyst: _____

Date _____

Run Date: _____

2-13-23

Date _____

PREPARATION BENCH SHEET

Organics

BDB0426

Matrix: Water

Prepared using: SVOC - SVOC Water

Analyses
SVOC 625 MISC

Spiking Solution(s)
2201385 Cardno Spk 100

Surrogate Solution(s)
2201008 CLP Acid Surr 2000
2202928 CLP B/N 1000

Analysis	Lab Number	Sample and Source ID	Date Due	Extract by	Prepared - By	Initial (mL)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments
QC	BDB0426-BLK1	Blank			2/11/23 0:46 MAH	1000	1		25	
QC	BDB0426-BS1	LCS			2/11/23 0:46 MAH	1000	1	50	25	
QC	BDB0426-BSD1	LCS Dup			2/11/23 0:46 MAH	1000	1	50	25	
SVOC 625 MISC	WDB0365-12	WW-3	02/20/2023	02/11/2023	2/11/23 0:46 MAH	1000	1		25	
SVOC 625 MISC	WDB0365-13	E-2	02/20/2023	02/11/2023	2/11/23 0:46 MAH	860	1		25	
SVOC 625 MISC	WDB0365-14	E-1	02/20/2023	02/11/2023	2/11/23 0:46 MAH	1000	1		25	
SVOC 625 MISC	WDB0365-15	E-1 DUP	02/20/2023	02/11/2023	2/11/23 0:46 MAH	1000	1		25	

Standard	Description	LotNum
2000154	Acetone - GC grade	59074
2000155	H2SO4	58115
2200634	Dichloromethane	SHBP1472
2201798	CLP I.S. Spike 2000	042121

Batch Comments:
 Acidic start/stop time: 3PM- 8AM
 Basic start/stop time: 8AM-3PM
 Instrument: 7890/5975 GCMS
 Ext. Method: 3520C liq-liq/Waste Dilution/Microextr
 TurboVap: 01
 Balance: 04

2-13-23



Analyst: _____ Date: _____ Run Date: _____ Date: _____

DFTPP

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00101001.D
 Acq On : 13 Feb 2023 4:20 pm
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : T:\Data1\MSD4\METHODS\2023\BNA-0210.M
 Title : EPA 8270D / EPA 625.1 - MSD4
 Last Update : Fri Feb 10 09:53:03 2023

AutoFind: Scans 1927, 1928, 1929; Background Corrected with Scan 1918

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.2	71795	PASS
68	69	0.00	2	1.8	1326	PASS
70	69	0.00	2	0.6	406	PASS
127	198	10	80	49.8	96157	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	193029	PASS
199	198	5	9	6.5	12547	PASS
275	198	10	60	30.9	59645	PASS
365	198	1	100	5.1	9813	PASS
441	443	0.01	150	75.8	40949	PASS
442	198	30	200	143.4	276757	PASS
443	442	15	24	19.5	54003	PASS

BNA-0210.M Tue Feb 14 08:53:19 2023

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00101013.D
 Acq On : 13 Feb 2023 9:50 pm
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

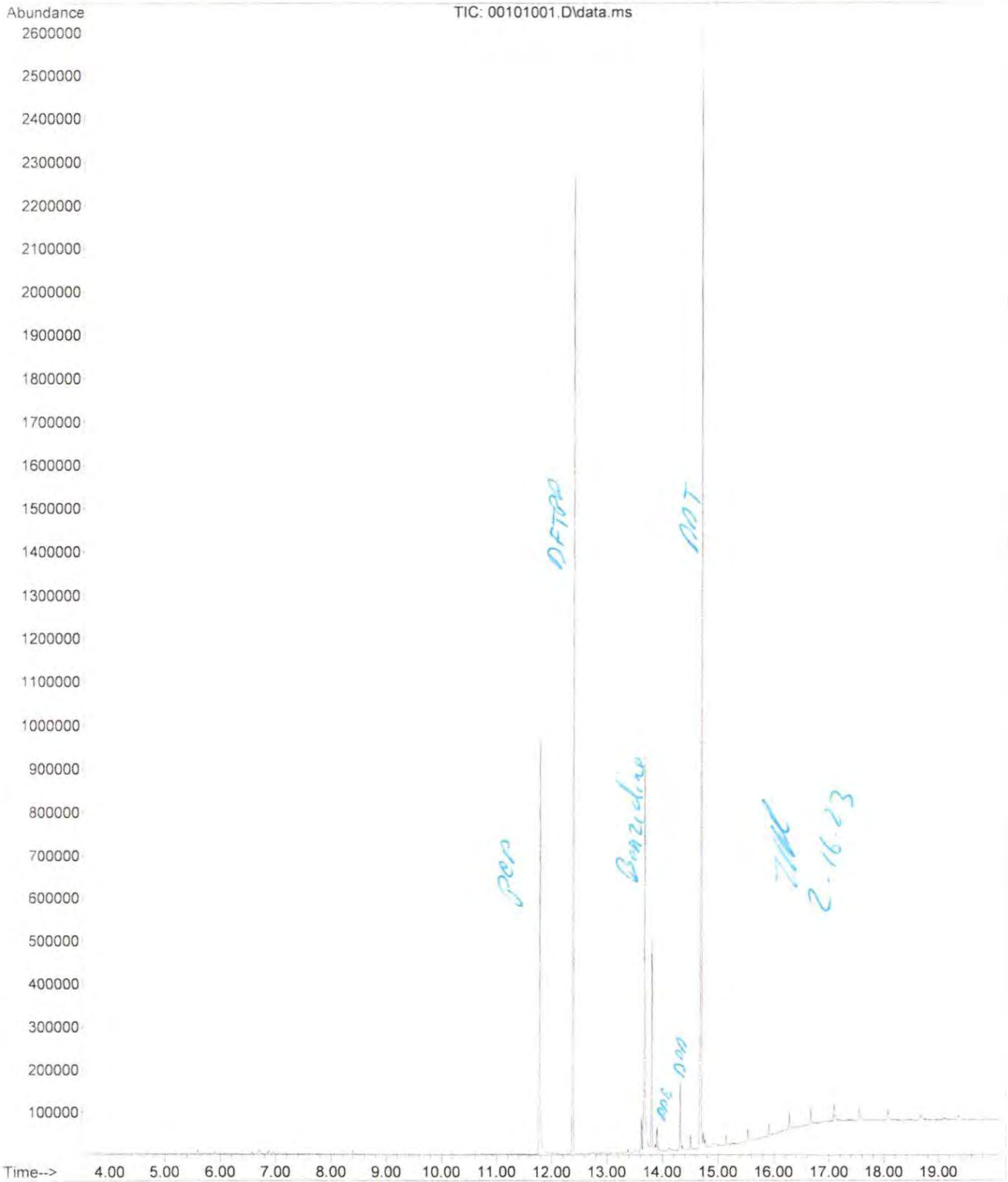
Method : T:\Data1\MSD4\METHODS\2023\BNA-0210.M
 Title : EPA 8270D / EPA 625.1 - MSD4
 Last Update : Fri Feb 10 09:53:03 2023

AutoFind: Scans 1926, 1927, 1928; Background Corrected with Scan 1916

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.4	63829	PASS
68	69	0.00	2	1.7	1106	PASS
70	69	0.00	2	0.6	378	PASS
127	198	10	80	49.2	86309	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	175280	PASS
199	198	5	9	6.7	11683	PASS
275	198	10	60	30.3	53053	PASS
365	198	1	100	5.2	9058	PASS
441	443	0.01	150	77.0	38453	PASS
442	198	30	200	147.3	258240	PASS
443	442	15	24	19.3	49925	PASS

BNA-0210.M Tue Feb 14 08:54:11 2023

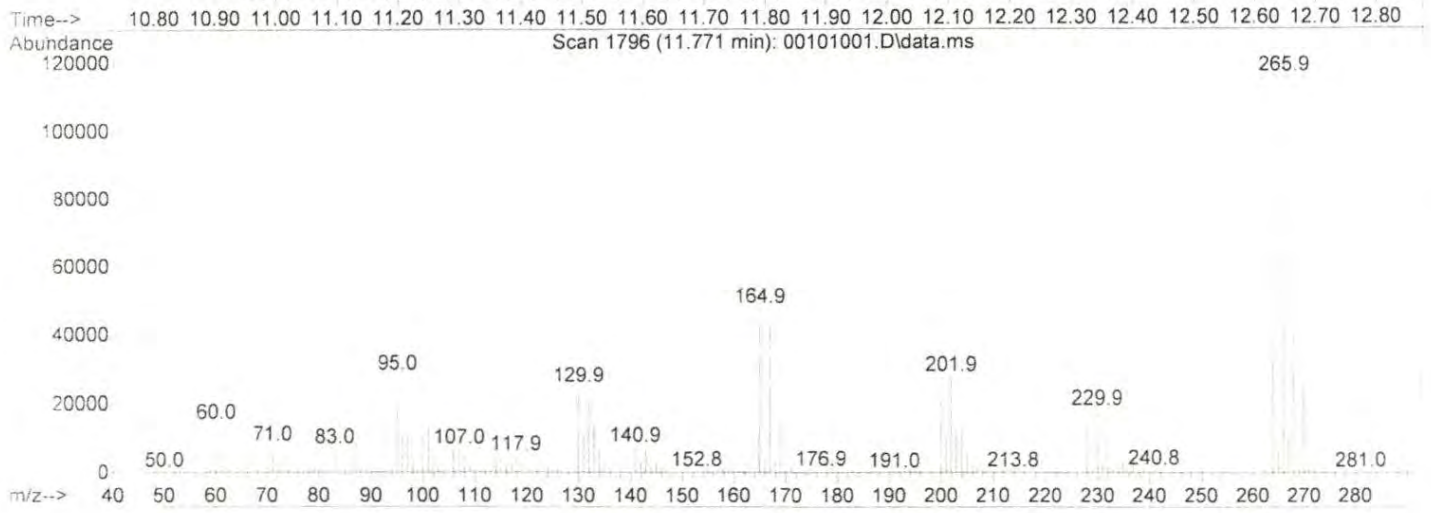
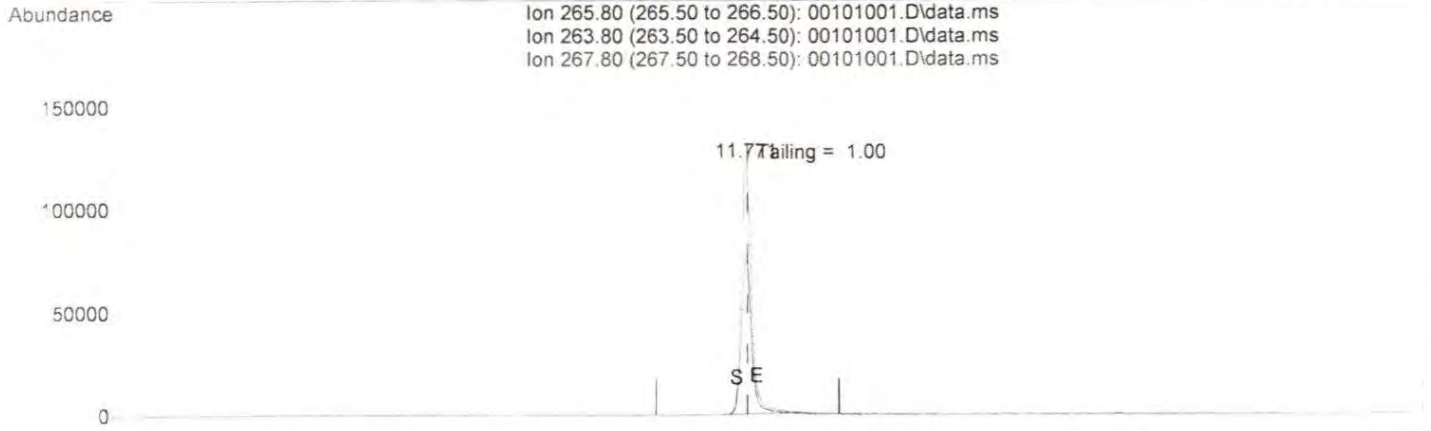
File : T:\Data1\MSD4\2023\FEB\13CARD\00101001.D
Operator : MAH
Acquired : 13 Feb 2023 4:20 pm using AcqMethod SVOCT1.M
Instrument : MSD4
Sample Name: SYS
Misc Info :
Vial Number: 1



Quantitation Report (Qedit)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00101001.D
 Acq On : 13 Feb 2023 4:20 pm
 Operator : MAH
 Sample : SYS
 Misc :
 Vial : 1 Sample Multiplier: 1

Quant Time: Feb 13 18:22:56 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\BNA-0210.M
 Quant Title : EPA 8270D / EPA 625.1 - MSD4
 Last Update : Fri Feb 10 09:53:03 2023
 Response via : Initial Calibration



TIC: 00101001.D\data.ms

(68) Pentachlorophenol

11.771min (-0.001) 0.00 ug/mL

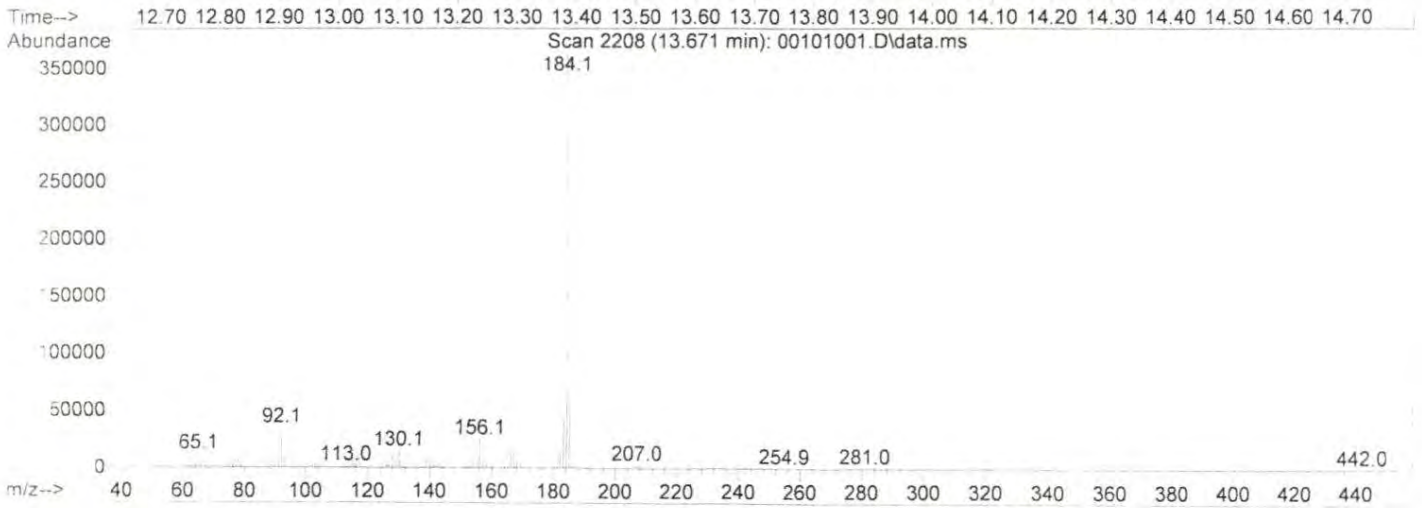
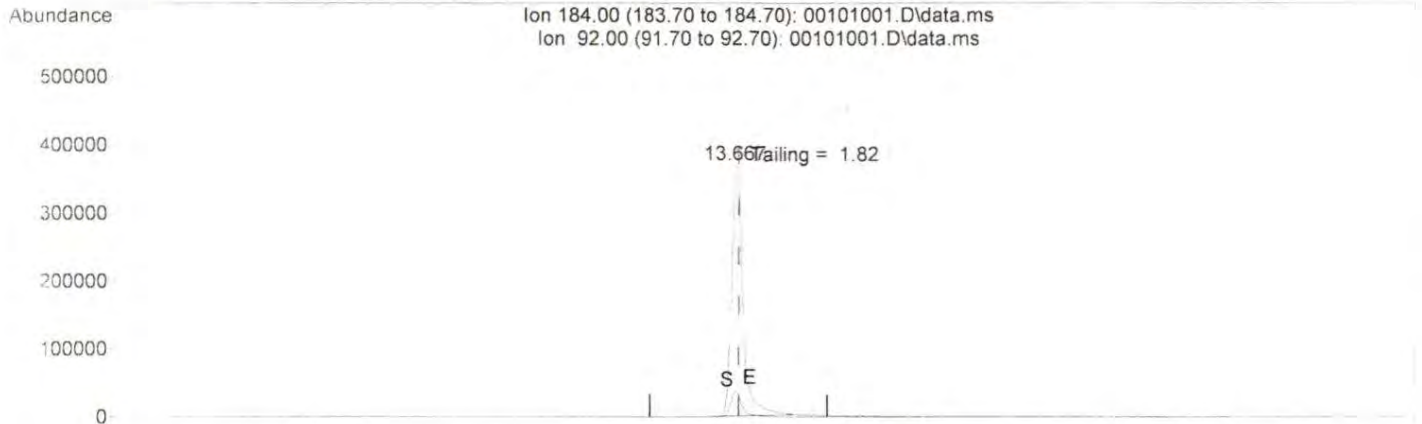
response 1419880

Ion	Exp%	Act%
265.80	100.00	100.00
263.80	60.40	62.27
267.80	62.30	63.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00101001.D
 Acq On : 13 Feb 2023 4:20 pm
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 13 18:22:56 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\BNA-0210.M
 Quant Title : EPA 8270D / EPA 625.1 - MSD4
 Qlast Update : Fri Feb 10 09:53:03 2023
 Response via : Initial Calibration



TIC: 00101001.D\data.ms

(74) Benzidine

13.671min (-0.002) 0.00 ug/mL

response 4974436

Ion	Exp%	Act%
184.00	100.00	100.00
92.00	10.60	9.86
0.00	0.00	0.00
0.00	0.00	0.00

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00201002.D
 Acq On : 13 Feb 2023 4:47 pm
 Operator : MAH
 Sample : CARDNO 10 PPM
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 14 10:10:26 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.569	150	24974773	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.186	164	30544892	20.00	ug/mL #	0.00
7) Chrysene-d12	15.254	240	27380201	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.368	172	56274123	25.70	ug/mL	0.00
8) Terphenyl-d14	13.982	244	31130039	25.87	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	103.48%
Target Compounds						
4) Atrazine	11.677	200	4939497	9.81	ug/mL	Qvalue 97
5) Metolachlor	12.873	162	12184951	9.83	ug/mL	95
6) Chlorpyrifos	12.877	197	2598687	9.86	ug/mL	100

{#} = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00301003.D
 Acq On : 13 Feb 2023 5:15 pm
 Operator : MAH
 Sample : CARDNO 5 PPM
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 14 10:10:05 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Qlast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.569	150	27423796	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.186	164	32574678	20.00	ug/mL	# 0.00
7) Chrysene-d12	15.252	240	29516143	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.368	172	57829585	24.05	ug/mL	0.00
8) Terphenyl-d14	13.981	244	32041146	24.70	ug/mL	0.00
Spiked Amount	25.000					
			Recovery	=	98.80%	
Target Compounds						
						Qvalue
4) Atrazine	11.673	200	2474258	5.58	ug/mL	97
5) Metolachlor	12.869	162	6072547	5.48	ug/mL	97
6) Chlorpyrifos	12.877	197	1334148	5.38	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00401004.D
 Acq On : 13 Feb 2023 5:42 pm
 Operator : MAH
 Sample : CARDNO 2.5 PPM
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 14 10:09:38 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Qlast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.568	150	26169753	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.186	164	32040849	20.00	ug/mL	# 0.00
7) Chrysene-d12	15.254	240	31983476	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.368	172	57119497	24.89	ug/mL	0.00
8) Terphenyl-d14	13.980	244	33460630	23.80	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	95.20%	
Target Compounds						
						Qvalue
4) Atrazine	11.671	200	892116	2.42	ug/mL	97
5) Metolachlor	12.870	162	2395243	2.53	ug/mL	100
6) Chlorpyrifos	12.875	197	558355	2.51	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00501005.D
 Acq On : 13 Feb 2023 6:10 pm
 Operator : MAH
 Sample : CARDNO 1 PPM
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 14 10:09:09 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Last Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) Dichlorobenzene-d5	6.569	150	25443959	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.186	164	31243188	20.00	ug/mL	# 0.00
7) Chrysene-d12	15.253	240	28196868	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.368	172	56839749	25.48	ug/mL	0.00
8) Terphenyl-d14	13.981	244	31598445	25.50	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	102.00%	
Target Compounds						
4) Atrazine	11.671	200	262359	0.81	ug/mL	Qvalue 98
5) Metolachlor	12.863	162	684362m	0.81	ug/mL	
6) Chlorpyrifos	12.876	197	179223	0.87	ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00601006.D
 Acq On : 13 Feb 2023 6:37 pm
 Operator : MAH
 Sample : CARDNO 0.5 PPM
 Visc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 14 10:02:31 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Quant Update : Tue Feb 14 10:02:27 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) Dichlorobenzene-d5	6.566	150	25715151	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.186	164	31828077	20.00	ug/mL #	0.00
7) Chrysene-d12	15.253	240	29590116	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.366	172	56673996	25.13	ug/mL	0.00
8) Terphenyl-d14	13.981	244	32051311	24.64	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	98.56%	
Target Compounds						
4) Atrazine	11.670	200	111354	0.53	ug/mL	Qvalue 97
5) Metolachlor	12.868	162	281249	0.51	ug/mL	98
6) Chlorpyrifos	12.876	197	84773	0.51	ug/mL	97

{#} = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00701007.D
 Acq On : 13 Feb 2023 7:05 pm
 Operator : MAH
 Sample : CARDNO 0.1 PPM
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 14 10:05:42 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Quant Update : Tue Feb 14 10:05:23 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) Dichlorobenzene-d5	6.568	150	24274032	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.186	164	29918867	20.00	ug/mL	# 0.00
7) Chrysene-d12	15.253	240	24454229	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.367	172	53358110	25.07	ug/mL	0.00
8) Terphenyl-d14	13.981	244	28668951	26.67	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	106.68%	
Target Compounds						
4) Atrazine	11.666	200	14912m	0.07	ug/mL	Qvalue
5) Metolachlor	12.862	162	41207m	0.08	ug/mL	
6) Chlorpyrifos	12.873	197	10692m	0.07	ug/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00801008.D
 Acq On : 13 Feb 2023 7:32 pm
 Operator : MAH
 Sample : CARDNO 0.05 PPM
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 14 10:04:38 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Quant Update : Tue Feb 14 10:04:20 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.568	150	23640746	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.185	164	29194264	20.00	ug/mL #	0.00
7) Chrysene-d12	15.251	240	26981339	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.367	172	51163911	24.68	ug/mL	0.00
8) Terphenyl-d14	13.980	244	28248243	23.82	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	95.28%
Target Compounds						
4) Atrazine	11.671	200	7749	0.03	ug/mL#	33
5) Metolachlor	12.868	162	21771	0.03	ug/mL#	29
6) Chlorpyrifos	12.872	197	6709m	0.04	ug/mL	

(#) - qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 01101009.D
 Acq On : 13 Feb 2023 8:00 pm
 Operator : MAH
 Sample : BDB0425-BS1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 14 10:10:58 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Last Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) Dichlorobenzene-d5	6.568	150	19704863	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.186	164	27125372	20.00	ug/mL #	0.00
7) Chrysene-d12	15.252	240	25133851	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.365	172	33877745	19.61	ug/mL	0.00
8) Terphenyl-d14	13.979	244	22669309	20.52	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	82.08%	
Target Compounds						
						Qvalue
4) Atrazine	11.671	200	1721541	4.84	ug/mL	96
5) Metolachlor	12.869	162	4514742	5.00	ug/mL	98
6) Chlorpyrifos	12.876	197	947743	4.69	ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 01201010.D
 Acq On : 13 Feb 2023 8:27 pm
 Operator : MAH
 Sample : BDB0425-BSD1
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 14 10:30:46 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.568	150	19594220	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.185	164	28247542	20.00	ug/mL #	0.00
7) Chrysene-d12	15.250	240	24146600	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.365	172	40913257	23.81	ug/mL	0.00
8) Terphenyl-d14	13.978	244	23571827	22.21	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	88.84%	
Target Compounds						
						Qvalue
4) Atrazine	11.671	200	2154882	5.59	ug/mL	97
5) Metolachlor	12.869	162	4851789	5.13	ug/mL	97
6) Chlorpyrifos	12.875	197	1002898	4.76	ug/mL	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 01301014.D
 Acq On : 13 Feb 2023 10:17 pm
 Operator : MAH
 Sample : BDB0425-BLK1
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 14 10:31:21 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Qlast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.572	150	19214321	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.181	164	28811240	20.00	ug/mL #	0.00
7) Chrysene-d12	15.249	240	28469793	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.363	172	49120454	29.15	ug/mL	0.00
8) Terphenyl-d14	13.976	244	28134761	22.48	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	89.92%

Target Compounds ----- Qvalue -----

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 01401016.D
 Acq On : 13 Feb 2023 11:12 pm
 Operator : MAH
 Sample : WDA1107-14
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 14 10:33:06 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Qlast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.568	150	16348457	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.183	164	20658948	20.00	ug/mL #	0.00
7) Chrysene-d12	15.247	240	18585915	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.364	172	31027126	21.64	ug/mL	0.00
8) Terphenyl-d14	13.975	244	17940627	21.96	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	87.84%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 01501017.D
 Acq On : 13 Feb 2023 11:40 pm
 Operator : MAH
 Sample : WDA1107-15
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 16 13:23:25 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.568	150	20510354	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.184	164	29840970	20.00	ug/mL	# 0.00
7) Chrysene-d12	15.249	240	29578622	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.364	172	40456152	22.50	ug/mL	0.00
8) Terphenyl-d14	13.977	244	26844204	20.65	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	82.60%	
Target Compounds						
						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 01601018.D
 Acq On : 14 Feb 2023 12:07 am
 Operator : MAH
 Sample : WDA1107-17
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 14 10:37:14 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Qlast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.565	150	20576211	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.184	164	30127381	20.00	ug/mL #	0.00
7) Chrysene-d12	15.248	240	26975741	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.364	172	42300261	23.45	ug/mL	0.00
8) Terphenyl-d14	13.976	244	27323827	23.05	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	92.20%	

Target Compounds Qvalue

 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 02101011.D
 Acq On : 13 Feb 2023 8:55 pm
 Operator : MAH
 Sample : BDB0426-BS1
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 14 10:11:12 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) Dichlorobenzene-d5	6.569	150	20010859	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.185	164	27483338	20.00	ug/mL	# 0.00
7) Chrysene-d12	15.250	240	26772572	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.365	172	34016557	19.39	ug/mL	0.00
8) Terphenyl-d14	13.977	244	23830482	20.25	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	81.00%	
Target Compounds						
						Qvalue
4) Atrazine	11.671	200	1837835	5.04	ug/mL	96
5) Metolachlor	12.869	162	4830166	5.23	ug/mL	97
6) Chlorpyrifos	12.874	197	1008791	4.90	ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 02201012.D
 Acq On : 13 Feb 2023 9:23 pm
 Operator : MAH
 Sample : BDB0426-BSD1
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 14 10:49:14 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Qlast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.569	150	19334070	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.185	164	26754774	20.00	ug/mL	# 0.00
7) Chrysene-d12	15.250	240	24662588	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.365	172	38863188	22.92	ug/mL	0.00
8) Terphenyl-d14	13.977	244	23462023	21.64	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	86.56%
Target Compounds						
						Qvalue
4) Atrazine	11.670	200	1886461	5.26	ug/mL	97
5) Metolachlor	12.868	162	4609522	5.15	ug/mL	97
6) Chlorpyrifos	12.875	197	916455	4.61	ug/mL	98

(#) - qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 02301015.D
 Acq On : 13 Feb 2023 10:45 pm
 Operator : MAH
 Sample : BDB0426-BLK1
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 14 10:50:03 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Last Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Dichlorobenzene-d5	6.570	150	20669399	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.183	164	29107537	20.00	ug/mL	# 0.00
7) Chrysene-d12	15.249	240	26036491	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.363	172	49859757	27.51	ug/mL	0.00
8) Terphenyl-d14	13.976	244	28441606	24.85	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	99.40%

Target Compounds Qvalue

{#} = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 02401019.D
 Acq On : 14 Feb 2023 12:35 am
 Operator : MAH
 Sample : WDB0365-012
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 14 10:44:08 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Quant Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.568	150	19925894	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.184	164	30408534	20.00	ug/mL #	0.00
7) Chrysene-d12	15.250	240	31570085	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.364	172	42353901	24.24	ug/mL	0.00
8) Terphenyl-d14	13.976	244	27324811	19.69	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	78.76%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 02501020.D
 Acq On : 14 Feb 2023 1:02 am
 Operator : MAH
 Sample : WDB0365-013
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 14 10:46:33 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Qlast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.567	150	18048840	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.182	164	26557686	20.00	ug/mL #	0.00
7) Chrysene-d12	15.247	240	24754861	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.363	172	36889630	23.31	ug/mL	0.00
8) Terphenyl-d14	13.974	244	23142095	21.27	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	85.08%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 02601021.D
 Acq On : 14 Feb 2023 1:30 am
 Operator : MAH
 Sample : WDB0365-014
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 14 10:46:59 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.566	150	19203035	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.184	164	28448277	20.00	ug/mL #	0.00
7) Chrysene-d12	15.247	240	22342738	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.363	172	37557772	22.31	ug/mL	0.00
8) Terphenyl-d14	13.975	244	22001993	22.40	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	89.60%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 02701022.D
 Acq On : 14 Feb 2023 1:57 am
 Operator : MAH
 Sample : WDB0365-015
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 14 10:47:40 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Last Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) Dichlorobenzene-d5	6.566	150	21060782	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.184	164	30973321	20.00	ug/mL #	0.00
7) Chrysene-d12	15.249	240	26045396	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.363	172	40974952	22.19	ug/mL	0.00
8) Terphenyl-d14	13.975	244	26237456	22.92	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	91.68%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
117	MDA0366-17	Unknown	2/2/2023 7:50:020223_gly\	1.00	Gly phosphate	0.00e+000	N/A	2.90e+005	No Peak	N/A
118	MDA0366-17	Unknown	2/2/2023 7:50:020223_gly\	1.00	Gly phosphate1	0.00e+000	N/A	2.90e+005	No Peak	N/A
119	MDA0366-17	Unknown	2/2/2023 7:50:020223_gly\	1.00	AMPA	0.00e+000	N/A	2.90e+005	No Peak	N/A
120	MDA0366-17	Unknown	2/2/2023 7:50:020223_gly\	1.00	AMPA1	0.00e+000	N/A	2.90e+005	No Peak	N/A
121	MDA0366-18	Unknown	2/2/2023 7:57:020223_gly\	1.00	Gly phosphate	0.00e+000	N/A	2.94e+005	No Peak	N/A
122	MDA0366-18	Unknown	2/2/2023 7:57:020223_gly\	1.00	Gly phosphate1	0.00e+000	N/A	2.94e+005	No Peak	N/A
123	MDA0366-18	Unknown	2/2/2023 7:57:020223_gly\	1.00	AMPA	0.00e+000	N/A	2.94e+005	No Peak	N/A
124	MDA0366-18	Unknown	2/2/2023 7:57:020223_gly\	1.00	AMPA1	0.00e+000	N/A	2.94e+005	No Peak	N/A
125	MDA0366-19	Unknown	2/2/2023 8:04:020223_gly\	1.00	Gly phosphate	0.00e+000	N/A	3.04e+005	No Peak	N/A
126	MDA0366-19	Unknown	2/2/2023 8:04:020223_gly\	1.00	Gly phosphate1	0.00e+000	N/A	3.04e+005	No Peak	N/A
127	MDA0366-19	Unknown	2/2/2023 8:04:020223_gly\	1.00	AMPA	0.00e+000	N/A	3.04e+005	No Peak	N/A
128	MDA0366-19	Unknown	2/2/2023 8:04:020223_gly\	1.00	AMPA1	0.00e+000	N/A	3.04e+005	No Peak	N/A
129	CCV 25/50 ppb	Quality Cont	2/2/2023 8:10:020223_gly\	1.00	Gly phosphate	2.30e+005	25.0	3.47e+005	23.2	92.7
130	CCV 25/50 ppb	Quality Cont	2/2/2023 8:10:020223_gly\	1.00	Gly phosphate1	7.98e+004	25.0	3.47e+005	23.6	94.2
131	CCV 25/50 ppb	Quality Cont	2/2/2023 8:10:020223_gly\	1.00	AMPA	1.64e+005	50.0	3.47e+005	25.5	51.0
132	CCV 25/50 ppb	Quality Cont	2/2/2023 8:10:020223_gly\	1.00	AMPA1	5.80e+004	50.0	3.47e+005	26.5	53.0
133	BDB0006-BLK2	Unknown	2/2/2023 8:17:020223_gly\	1.00	Gly phosphate	5.47e+003	N/A	3.65e+005	0.561	N/A
134	BDB0006-BLK2	Unknown	2/2/2023 8:17:020223_gly\	1.00	Gly phosphate1	0.00e+000	N/A	3.65e+005	No Peak	N/A
135	BDB0006-BLK2	Unknown	2/2/2023 8:17:020223_gly\	1.00	AMPA	1.32e+004	N/A	3.65e+005	0.177	N/A
136	BDB0006-BLK2	Unknown	2/2/2023 8:17:020223_gly\	1.00	AMPA1	0.00e+000	N/A	3.65e+005	No Peak	N/A
137	BDB0006-BS2	Quality Cont	2/2/2023 8:24:020223_gly\	1.00	Gly phosphate	3.87e+005	50.0	3.45e+005	40.0	80.0
138	BDB0006-BS2	Quality Cont	2/2/2023 8:24:020223_gly\	1.00	Gly phosphate1	1.45e+005	50.0	3.45e+005	44.3	88.7
139	BDB0006-BS2	Quality Cont	2/2/2023 8:24:020223_gly\	1.00	AMPA	3.23e+005	100.	3.45e+005	53.0	53.0
140	BDB0006-BS2	Quality Cont	2/2/2023 8:24:020223_gly\	1.00	AMPA1	1.14e+005	100.	3.45e+005	56.8	56.8
141	BDB0006-MS2	Quality Cont	2/2/2023 8:31:020223_gly\	1.00	Gly phosphate	8.43e+004	50.0	7.21e+004	41.8	83.6
142	BDB0006-MS2	Quality Cont	2/2/2023 8:31:020223_gly\	1.00	Gly phosphate1	3.01e+004	50.0	7.21e+004	44.0	88.0
143	BDB0006-MS2	Quality Cont	2/2/2023 8:31:020223_gly\	1.00	AMPA	1.40e+005	100.	7.21e+004	115.	115.
144	BDB0006-MS2	Quality Cont	2/2/2023 8:31:020223_gly\	1.00	AMPA1	4.28e+004	100.	7.21e+004	107.	107.
145	BDB0006-MSD2	Quality Cont	2/2/2023 8:38:020223_gly\	1.00	Gly phosphate	8.61e+004	50.0	6.17e+004	50.4	101.

Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
146	BDB0006-MSD2	2/2/2023 8:38:	020223_gly	1.00	Glyphosate1	2.96e+004	50.0	6.17e+004	50.9	102.
147	BDB0006-MSD2	2/2/2023 8:38:	020223_gly	1.00	AMPA	1.15e+005	100.	6.17e+004	110.	110.
148	BDB0006-MSD2	2/2/2023 8:38:	020223_gly	1.00	AMPA1	3.83e+004	100.	6.17e+004	112.	112.
149	WDA1107-16	2/2/2023 8:44:	020223_gly	1.00	Glyphosate	0.00e+000	N/A	6.88e+004	No Peak	N/A
150	WDA1107-16	2/2/2023 8:44:	020223_gly	1.00	Glyphosate1	0.00e+000	N/A	6.88e+004	No Peak	N/A
151	WDA1107-16	2/2/2023 8:44:	020223_gly	1.00	AMPA	7.47e+003	N/A	6.88e+004	4.36	N/A
152	WDA1107-16	2/2/2023 8:44:	020223_gly	1.00	AMPA1	0.00e+000	N/A	6.88e+004	No Peak	N/A
153	MDA0366-20	2/2/2023 8:51:	020223_gly	1.00	Glyphosate	0.00e+000	N/A	3.00e+005	No Peak	N/A
154	MDA0366-20	2/2/2023 8:51:	020223_gly	1.00	Glyphosate1	0.00e+000	N/A	3.00e+005	No Peak	N/A
155	MDA0366-20	2/2/2023 8:51:	020223_gly	1.00	AMPA	3.35e+003	N/A	3.00e+005	< 0	N/A
156	MDA0366-20	2/2/2023 8:51:	020223_gly	1.00	AMPA1	0.00e+000	N/A	3.00e+005	No Peak	N/A
157	MDA0366-21	2/2/2023 8:58:	020223_gly	1.00	Glyphosate	0.00e+000	N/A	3.23e+005	No Peak	N/A
158	MDA0366-21	2/2/2023 8:58:	020223_gly	1.00	Glyphosate1	0.00e+000	N/A	3.23e+005	No Peak	N/A
159	MDA0366-21	2/2/2023 8:58:	020223_gly	1.00	AMPA	0.00e+000	N/A	3.23e+005	No Peak	N/A
160	MDA0366-21	2/2/2023 8:58:	020223_gly	1.00	AMPA1	0.00e+000	N/A	3.23e+005	No Peak	N/A
161	MDA0366-22	2/2/2023 9:05:	020223_gly	1.00	Glyphosate	0.00e+000	N/A	2.48e+005	No Peak	N/A
162	MDA0366-22	2/2/2023 9:05:	020223_gly	1.00	Glyphosate1	0.00e+000	N/A	2.48e+005	No Peak	N/A
163	MDA0366-22	2/2/2023 9:05:	020223_gly	1.00	AMPA	0.00e+000	N/A	2.48e+005	No Peak	N/A
164	MDA0366-22	2/2/2023 9:05:	020223_gly	1.00	AMPA1	0.00e+000	N/A	2.48e+005	No Peak	N/A
165	MDA0366-23	2/2/2023 9:11:	020223_gly	1.00	Glyphosate	0.00e+000	N/A	3.15e+005	No Peak	N/A
166	MDA0366-23	2/2/2023 9:11:	020223_gly	1.00	Glyphosate1	0.00e+000	N/A	3.15e+005	No Peak	N/A
167	MDA0366-23	2/2/2023 9:11:	020223_gly	1.00	AMPA	0.00e+000	N/A	3.15e+005	No Peak	N/A
168	MDA0366-23	2/2/2023 9:11:	020223_gly	1.00	AMPA1	0.00e+000	N/A	3.15e+005	No Peak	N/A
169	MDA0366-24	2/2/2023 9:18:	020223_gly	1.00	Glyphosate	0.00e+000	N/A	3.10e+005	No Peak	N/A
170	MDA0366-24	2/2/2023 9:18:	020223_gly	1.00	Glyphosate1	0.00e+000	N/A	3.10e+005	No Peak	N/A
171	MDA0366-24	2/2/2023 9:18:	020223_gly	1.00	AMPA	0.00e+000	N/A	3.10e+005	No Peak	N/A
172	MDA0366-24	2/2/2023 9:18:	020223_gly	1.00	AMPA1	0.00e+000	N/A	3.10e+005	No Peak	N/A
173	MDA0366-25	2/2/2023 9:25:	020223_gly	1.00	Glyphosate	0.00e+000	N/A	3.27e+005	No Peak	N/A
174	MDA0366-25	2/2/2023 9:25:	020223_gly	1.00	Glyphosate1	0.00e+000	N/A	3.27e+005	No Peak	N/A

Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
175	MDA0366-25	Unknown	2/2/2023 9:25:020223_gly\	1.00	AMPA	0.00e+000	N/A	3.27e+005	No Peak	N/A
176	MDA0366-25	Unknown	2/2/2023 9:25:020223_gly\	1.00	AMPA1	0.00e+000	N/A	3.27e+005	No Peak	N/A
177	MDA0610-01	Unknown	2/2/2023 9:32:020223_gly\	1.00	Glyphosate	0.00e+000	N/A	3.18e+005	No Peak	N/A
178	MDA0610-01	Unknown	2/2/2023 9:32:020223_gly\	1.00	Glyphosate1	0.00e+000	N/A	3.18e+005	No Peak	N/A
179	MDA0610-01	Unknown	2/2/2023 9:32:020223_gly\	1.00	AMPA	0.00e+000	N/A	3.18e+005	No Peak	N/A
180	MDA0610-01	Unknown	2/2/2023 9:32:020223_gly\	1.00	AMPA1	0.00e+000	N/A	3.18e+005	No Peak	N/A
181	MDA0610-02	Unknown	2/2/2023 9:38:020223_gly\	1.00	Glyphosate	0.00e+000	N/A	3.46e+005	No Peak	N/A
182	MDA0610-02	Unknown	2/2/2023 9:38:020223_gly\	1.00	Glyphosate1	0.00e+000	N/A	3.46e+005	No Peak	N/A
183	MDA0610-02	Unknown	2/2/2023 9:38:020223_gly\	1.00	AMPA	0.00e+000	N/A	3.46e+005	No Peak	N/A
184	MDA0610-02	Unknown	2/2/2023 9:38:020223_gly\	1.00	AMPA1	0.00e+000	N/A	3.46e+005	No Peak	N/A
185	MDA0610-03	Unknown	2/2/2023 9:45:020223_gly\	1.00	Glyphosate	0.00e+000	N/A	3.21e+005	No Peak	N/A
186	MDA0610-03	Unknown	2/2/2023 9:45:020223_gly\	1.00	Glyphosate1	0.00e+000	N/A	3.21e+005	No Peak	N/A
187	MDA0610-03	Unknown	2/2/2023 9:45:020223_gly\	1.00	AMPA	0.00e+000	N/A	3.21e+005	No Peak	N/A
188	MDA0610-03	Unknown	2/2/2023 9:45:020223_gly\	1.00	AMPA1	0.00e+000	N/A	3.21e+005	No Peak	N/A
189	CCV 25/50 ppb	Quality Cont	2/2/2023 9:52:020223_gly\	1.00	Glyphosate	2.19e+005	25.0	3.55e+005	21.6	86.3
190	CCV 25/50 ppb	Quality Cont	2/2/2023 9:52:020223_gly\	1.00	Glyphosate1	7.82e+004	25.0	3.55e+005	22.6	90.5
191	CCV 25/50 ppb	Quality Cont	2/2/2023 9:52:020223_gly\	1.00	AMPA	1.50e+005	50.0	3.55e+005	22.6	45.3
192	CCV 25/50 ppb	Quality Cont	2/2/2023 9:52:020223_gly\	1.00	AMPA1	5.36e+004	50.0	3.55e+005	23.6	47.3
193	WDA1107-15	Unknown	2/2/2023 9:59:020223_gly\	1.00	Glyphosate	2.64e+003	N/A	5.61e+004	1.66	N/A
194	WDA1107-15	Unknown	2/2/2023 9:59:020223_gly\	1.00	Glyphosate1	0.00e+000	N/A	5.61e+004	No Peak	N/A
195	WDA1107-15	Unknown	2/2/2023 9:59:020223_gly\	1.00	AMPA	0.00e+000	N/A	5.61e+004	No Peak	N/A
196	WDA1107-15	Unknown	2/2/2023 9:59:020223_gly\	1.00	AMPA1	0.00e+000	N/A	5.61e+004	No Peak	N/A
197	WDA1107-17	Unknown	2/2/2023 10:06:020223_gly\	1.00	Glyphosate	0.00e+000	N/A	6.30e+004	No Peak	N/A
198	WDA1107-17	Unknown	2/2/2023 10:06:020223_gly\	1.00	Glyphosate1	0.00e+000	N/A	6.30e+004	No Peak	N/A
199	WDA1107-17	Unknown	2/2/2023 10:06:020223_gly\	1.00	AMPA	0.00e+000	N/A	6.30e+004	No Peak	N/A
200	WDA1107-17	Unknown	2/2/2023 10:06:020223_gly\	1.00	AMPA1	0.00e+000	N/A	6.30e+004	No Peak	N/A
201	CCV 25/50 ppb	Quality Cont	2/2/2023 10:12:020223_gly\	1.00	Glyphosate	2.08e+005	25.0	3.14e+005	23.3	93.1
202	CCV 25/50 ppb	Quality Cont	2/2/2023 10:12:020223_gly\	1.00	Glyphosate1	7.89e+004	25.0	3.14e+005	25.9	104.
203	CCV 25/50 ppb	Quality Cont	2/2/2023 10:12:020223_gly\	1.00	AMPA	1.52e+005	50.0	3.14e+005	26.3	52.6

	Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
204	CCV 25/50 ppb	Quality Cont	2/2/2023 10:12	020223_gly1	1.00	AMPA1	5.17e+004	50.0	3.14e+005	26.1	52.1

Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
BDB0006-BLK1	Quality Cont	2/2/2023 5:21:	020223_gly\	1.00	Glyphosate1	0.00e+000	0.00	2.60e+005	No Peak	N/A
BDB0006-BLK1	Quality Cont	2/2/2023 5:21:	020223_gly\	1.00	AMPA	0.00e+000	0.00	2.60e+005	No Peak	N/A
BDB0006-BLK1	Quality Cont	2/2/2023 5:21:	020223_gly\	1.00	AMPA1	0.00e+000	0.00	2.60e+005	No Peak	N/A
BDB0006-BS1	Quality Cont	2/2/2023 5:28:	020223_gly\	1.00	Glyphosate	3.06e+005	50.0	2.66e+005	41.1	82.1
BDB0006-BS1	Quality Cont	2/2/2023 5:28:	020223_gly\	1.00	Glyphosate1	1.11e+005	50.0	2.66e+005	43.8	87.6
BDB0006-BS1	Quality Cont	2/2/2023 5:28:	020223_gly\	1.00	AMPA	3.29e+005	100.	2.66e+005	71.3	71.3
BDB0006-BS1	Quality Cont	2/2/2023 5:28:	020223_gly\	1.00	AMPA1	1.14e+005	100.	2.66e+005	75.5	75.5
BDB0006-MS1	Quality Cont	2/2/2023 5:35:	020223_gly\	1.00	Glyphosate	1.71e+005	50.0	1.46e+005	41.7	83.4
BDB0006-MS1	Quality Cont	2/2/2023 5:35:	020223_gly\	1.00	Glyphosate1	5.91e+004	50.0	1.46e+005	42.4	84.8
BDB0006-MS1	Quality Cont	2/2/2023 5:35:	020223_gly\	1.00	AMPA	2.45e+005	100.	1.46e+005	98.4	98.4
BDB0006-MS1	Quality Cont	2/2/2023 5:35:	020223_gly\	1.00	AMPA1	8.30e+004	100.	1.46e+005	102.	102.
BDB0006-MSD1	Quality Cont	2/2/2023 5:42:	020223_gly\	1.00	Glyphosate	1.62e+005	50.0	1.52e+005	37.9	75.7
BDB0006-MSD1	Quality Cont	2/2/2023 5:42:	020223_gly\	1.00	Glyphosate1	6.63e+004	50.0	1.52e+005	45.9	91.7
BDB0006-MSD1	Quality Cont	2/2/2023 5:42:	020223_gly\	1.00	AMPA	2.46e+005	100.	1.52e+005	94.4	94.4
BDB0006-MSD1	Quality Cont	2/2/2023 5:42:	020223_gly\	1.00	AMPA1	8.32e+004	100.	1.52e+005	97.6	97.6
WDA1107-14	Unknown	2/2/2023 5:48:	020223_gly\	1.00	Glyphosate	6.27e+003	N/A	1.42e+005	1.56	N/A
WDA1107-14	Unknown	2/2/2023 5:48:	020223_gly\	1.00	Glyphosate1	0.00e+000	N/A	1.42e+005	No Peak	N/A
WDA1107-14	Unknown	2/2/2023 5:48:	020223_gly\	1.00	AMPA	2.41e+004	N/A	1.42e+005	7.89	N/A
WDA1107-14	Unknown	2/2/2023 5:48:	020223_gly\	1.00	AMPA1	4.28e+003	N/A	1.42e+005	1.50	N/A
MDA0366-01	Unknown	2/2/2023 5:55:	020223_gly\	1.00	Glyphosate	0.00e+000	N/A	2.26e+005	No Peak	N/A
MDA0366-01	Unknown	2/2/2023 5:55:	020223_gly\	1.00	Glyphosate1	0.00e+000	N/A	2.26e+005	No Peak	N/A
MDA0366-01	Unknown	2/2/2023 5:55:	020223_gly\	1.00	AMPA	9.03e+003	N/A	2.26e+005	0.403	N/A
MDA0366-01	Unknown	2/2/2023 5:55:	020223_gly\	1.00	AMPA1	0.00e+000	N/A	2.26e+005	No Peak	N/A
MDA0366-02	Unknown	2/2/2023 6:02:	020223_gly\	1.00	Glyphosate	0.00e+000	N/A	2.54e+005	No Peak	N/A
MDA0366-02	Unknown	2/2/2023 6:02:	020223_gly\	1.00	Glyphosate1	0.00e+000	N/A	2.54e+005	No Peak	N/A
MDA0366-02	Unknown	2/2/2023 6:02:	020223_gly\	1.00	AMPA	0.00e+000	N/A	2.54e+005	No Peak	N/A
MDA0366-02	Unknown	2/2/2023 6:02:	020223_gly\	1.00	AMPA1	0.00e+000	N/A	2.54e+005	No Peak	N/A
MDA0366-03	Unknown	2/2/2023 6:09:	020223_gly\	1.00	Glyphosate	0.00e+000	N/A	2.76e+005	No Peak	N/A
MDA0366-03	Unknown	2/2/2023 6:09:	020223_gly\	1.00	Glyphosate1	0.00e+000	N/A	2.76e+005	No Peak	N/A

Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
59	MDA0366-03	Unknown	2/2/2023 6:09: 020223_gly\	1.00	AMPA	0.00e+000	N/A	2.76e+005	No Peak	N/A
60	MDA0366-03	Unknown	2/2/2023 6:09: 020223_gly\	1.00	AMPA1	0.00e+000	N/A	2.76e+005	No Peak	N/A
61	MDA0366-04	Unknown	2/2/2023 6:15: 020223_gly\	1.00	Glyphosate	0.00e+000	N/A	2.65e+005	No Peak	N/A
62	MDA0366-04	Unknown	2/2/2023 6:15: 020223_gly\	1.00	Glyphosate1	0.00e+000	N/A	2.65e+005	No Peak	N/A
63	MDA0366-04	Unknown	2/2/2023 6:15: 020223_gly\	1.00	AMPA	0.00e+000	N/A	2.65e+005	No Peak	N/A
64	MDA0366-04	Unknown	2/2/2023 6:15: 020223_gly\	1.00	AMPA1	0.00e+000	N/A	2.65e+005	No Peak	N/A
65	MDA0366-05	Unknown	2/2/2023 6:22: 020223_gly\	1.00	Glyphosate	0.00e+000	N/A	2.60e+005	No Peak	N/A
66	MDA0366-05	Unknown	2/2/2023 6:22: 020223_gly\	1.00	Glyphosate1	0.00e+000	N/A	2.60e+005	No Peak	N/A
67	MDA0366-05	Unknown	2/2/2023 6:22: 020223_gly\	1.00	AMPA	0.00e+000	N/A	2.60e+005	No Peak	N/A
68	MDA0366-05	Unknown	2/2/2023 6:22: 020223_gly\	1.00	AMPA1	0.00e+000	N/A	2.60e+005	No Peak	N/A
69	MDA0366-06	Unknown	2/2/2023 6:29: 020223_gly\	1.00	Glyphosate	0.00e+000	N/A	2.77e+005	No Peak	N/A
70	MDA0366-06	Unknown	2/2/2023 6:29: 020223_gly\	1.00	Glyphosate1	0.00e+000	N/A	2.77e+005	No Peak	N/A
71	MDA0366-06	Unknown	2/2/2023 6:29: 020223_gly\	1.00	AMPA	0.00e+000	N/A	2.77e+005	No Peak	N/A
72	MDA0366-06	Unknown	2/2/2023 6:29: 020223_gly\	1.00	AMPA1	0.00e+000	N/A	2.77e+005	No Peak	N/A
73	MDA0366-07	Unknown	2/2/2023 6:36: 020223_gly\	1.00	Glyphosate	0.00e+000	N/A	2.82e+005	No Peak	N/A
74	MDA0366-07	Unknown	2/2/2023 6:36: 020223_gly\	1.00	Glyphosate1	0.00e+000	N/A	2.82e+005	No Peak	N/A
75	MDA0366-07	Unknown	2/2/2023 6:36: 020223_gly\	1.00	AMPA	0.00e+000	N/A	2.82e+005	No Peak	N/A
76	MDA0366-07	Unknown	2/2/2023 6:36: 020223_gly\	1.00	AMPA1	0.00e+000	N/A	2.82e+005	No Peak	N/A
77	MDA0366-08	Unknown	2/2/2023 6:42: 020223_gly\	1.00	Glyphosate	0.00e+000	N/A	2.98e+005	No Peak	N/A
78	MDA0366-08	Unknown	2/2/2023 6:42: 020223_gly\	1.00	Glyphosate1	0.00e+000	N/A	2.98e+005	No Peak	N/A
79	MDA0366-08	Unknown	2/2/2023 6:42: 020223_gly\	1.00	AMPA	0.00e+000	N/A	2.98e+005	No Peak	N/A
80	MDA0366-08	Unknown	2/2/2023 6:42: 020223_gly\	1.00	AMPA1	0.00e+000	N/A	2.98e+005	No Peak	N/A
81	MDA0366-09	Unknown	2/2/2023 6:49: 020223_gly\	1.00	Glyphosate	0.00e+000	N/A	2.97e+005	No Peak	N/A
82	MDA0366-09	Unknown	2/2/2023 6:49: 020223_gly\	1.00	Glyphosate1	0.00e+000	N/A	2.97e+005	No Peak	N/A
83	MDA0366-09	Unknown	2/2/2023 6:49: 020223_gly\	1.00	AMPA	0.00e+000	N/A	2.97e+005	No Peak	N/A
84	MDA0366-09	Unknown	2/2/2023 6:49: 020223_gly\	1.00	AMPA1	0.00e+000	N/A	2.97e+005	No Peak	N/A
85	CCV 25/50 ppb	Quality Cont	2/2/2023 6:56: 020223_gly\	1.00	Glyphosate	2.06e+005	25.0	3.28e+005	22.0	88.2
86	CCV 25/50 ppb	Quality Cont	2/2/2023 6:56: 020223_gly\	1.00	Glyphosate1	7.35e+004	25.0	3.28e+005	23.0	92.0
87	CCV 25/50 ppb	Quality Cont	2/2/2023 6:56: 020223_gly\	1.00	AMPA	1.75e+005	50.0	3.28e+005	29.2	58.4

Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
88	CCV 25/50 ppb	Quality Cont	2/21/2023 6:56:020223_gjv\	1.00	AMPA1	5.96e+004	50.0	3.28e+005	29.3	58.5
89	MDA0366-10	Unknown	2/21/2023 7:03:020223_gjv\	1.00	Glyphosate	0.00e+000	N/A	3.03e+005	No Peak	N/A
90	MDA0366-10	Unknown	2/21/2023 7:03:020223_gjv\	1.00	Glyphosate1	0.00e+000	N/A	3.03e+005	No Peak	N/A
91	MDA0366-10	Unknown	2/21/2023 7:03:020223_gjv\	1.00	AMPA	1.35e+004	N/A	3.03e+005	0.663	N/A
92	MDA0366-10	Unknown	2/21/2023 7:03:020223_gjv\	1.00	AMPA1	0.00e+000	N/A	3.03e+005	No Peak	N/A
93	MDA0366-11	Unknown	2/21/2023 7:09:020223_gjv\	1.00	Glyphosate	0.00e+000	N/A	3.00e+005	No Peak	N/A
94	MDA0366-11	Unknown	2/21/2023 7:09:020223_gjv\	1.00	Glyphosate1	0.00e+000	N/A	3.00e+005	No Peak	N/A
95	MDA0366-11	Unknown	2/21/2023 7:09:020223_gjv\	1.00	AMPA	0.00e+000	N/A	3.00e+005	No Peak	N/A
96	MDA0366-11	Unknown	2/21/2023 7:09:020223_gjv\	1.00	AMPA1	0.00e+000	N/A	3.00e+005	No Peak	N/A
97	MDA0366-12	Unknown	2/21/2023 7:16:020223_gjv\	1.00	Glyphosate	0.00e+000	N/A	2.89e+005	No Peak	N/A
98	MDA0366-12	Unknown	2/21/2023 7:16:020223_gjv\	1.00	Glyphosate1	0.00e+000	N/A	2.89e+005	No Peak	N/A
99	MDA0366-12	Unknown	2/21/2023 7:16:020223_gjv\	1.00	AMPA	0.00e+000	N/A	2.89e+005	No Peak	N/A
100	MDA0366-12	Unknown	2/21/2023 7:16:020223_gjv\	1.00	AMPA1	0.00e+000	N/A	2.89e+005	No Peak	N/A
101	MDA0366-13	Unknown	2/21/2023 7:23:020223_gjv\	1.00	Glyphosate	0.00e+000	N/A	3.15e+005	No Peak	N/A
102	MDA0366-13	Unknown	2/21/2023 7:23:020223_gjv\	1.00	Glyphosate1	0.00e+000	N/A	3.15e+005	No Peak	N/A
103	MDA0366-13	Unknown	2/21/2023 7:23:020223_gjv\	1.00	AMPA	0.00e+000	N/A	3.15e+005	No Peak	N/A
104	MDA0366-13	Unknown	2/21/2023 7:23:020223_gjv\	1.00	AMPA1	0.00e+000	N/A	3.15e+005	No Peak	N/A
105	MDA0366-14	Unknown	2/21/2023 7:30:020223_gjv\	1.00	Glyphosate	0.00e+000	N/A	2.87e+005	No Peak	N/A
106	MDA0366-14	Unknown	2/21/2023 7:30:020223_gjv\	1.00	Glyphosate1	0.00e+000	N/A	2.87e+005	No Peak	N/A
107	MDA0366-14	Unknown	2/21/2023 7:30:020223_gjv\	1.00	AMPA	0.00e+000	N/A	2.87e+005	No Peak	N/A
108	MDA0366-14	Unknown	2/21/2023 7:30:020223_gjv\	1.00	AMPA1	0.00e+000	N/A	2.87e+005	No Peak	N/A
109	MDA0366-15	Unknown	2/21/2023 7:37:020223_gjv\	1.00	Glyphosate	0.00e+000	N/A	3.17e+005	No Peak	N/A
110	MDA0366-15	Unknown	2/21/2023 7:37:020223_gjv\	1.00	Glyphosate1	0.00e+000	N/A	3.17e+005	No Peak	N/A
111	MDA0366-15	Unknown	2/21/2023 7:37:020223_gjv\	1.00	AMPA	0.00e+000	N/A	3.17e+005	No Peak	N/A
112	MDA0366-15	Unknown	2/21/2023 7:37:020223_gjv\	1.00	AMPA1	0.00e+000	N/A	3.17e+005	No Peak	N/A
113	MDA0366-16	Unknown	2/21/2023 7:43:020223_gjv\	1.00	Glyphosate	0.00e+000	N/A	3.30e+005	No Peak	N/A
114	MDA0366-16	Unknown	2/21/2023 7:43:020223_gjv\	1.00	Glyphosate1	0.00e+000	N/A	3.30e+005	No Peak	N/A
115	MDA0366-16	Unknown	2/21/2023 7:43:020223_gjv\	1.00	AMPA	0.00e+000	N/A	3.30e+005	No Peak	N/A
116	MDA0366-16	Unknown	2/21/2023 7:43:020223_gjv\	1.00	AMPA1	0.00e+000	N/A	3.30e+005	No Peak	N/A

Methods: 8270C / EPA 6850 / EPA 8321B

Instrument: LC-MS-MS

Ext. Method: EPA 3535 SPE/ Liq-Solid microextraction and derivatization

Internal Standard (IS)	Solution #	Concentration (ppm)
Glyphosate- ¹³ C ₂	2103573	10
Matrix Spiking Info (MS/MSD)	Solution #	Concentration (ppm)
Glyphosate / AMPA	2201545 ²³⁰⁰³⁵⁶ <i>LA MBL 2/1/23</i>	25/50

Standard or Sample # (Glyphosate / AMPA)	Reaction volume	Sample	FMOc (mL)	Buffer (mL)	IS (µL)	Cal Std or Spike (µL)	Final Mult
250 ppb / 500 ppb	2 ml	1.0	0.5	0.5	10	20	
125 ppb / 250 ppb	2 ml	1.0	0.5	0.5	10	10	
50 ppb / 100 ppb	2 ml	1.0	0.5	0.5	10	4	
25 ppb / 50 ppb	2 ml	1.0	0.5	0.5	10	2	
12.5 ppb / 25 ppb	2 ml	1.0	0.5	0.5	10	1	
6.25 ppb/12.5 ppb	2 ml	1.0	0.5	0.5	10	0.5	
BDB0006-BLK1	2 ml	1.0	0.5	0.5	10	0	
BDB0006-BS1	2 ml	1.0	0.5	0.5	10	4	
BDB0006-MS1	2 ml	1.0	0.5	0.5	10	4	
BDB0006-MSD1	2 ml	1.0	0.5	0.5	10	4	
WDA1107-14	2 ml	1.0	0.5	0.5	10	0	
MDA0366-01	2 ml	1.0	0.5	0.5	10	0	
MDA0366-02	2 ml	1.0	0.5	0.5	10	0	
MDA0366-03	2 ml	1.0	0.5	0.5	10	0	
MDA0366-04	2 ml	1.0	0.5	0.5	10	0	
MDA0366-05	2 ml	1.0	0.5	0.5	10	0	
MDA0366-06	2 ml	1.0	0.5	0.5	10	0	
MDA0366-07	2 ml	1.0	0.5	0.5	10	0	
MDA0366-08	2 ml	1.0	0.5	0.5	10	0	
MDA0366-09	2 ml	1.0	0.5	0.5	10	0	
MDA0366-10	2 ml	1.0	0.5	0.5	10	0	
MDA0366-11	2 ml	1.0	0.5	0.5	10	0	
MDA0366-12	2 ml	1.0	0.5	0.5	10	0	
MDA0366-13	2 ml	1.0	0.5	0.5	10	0	
MDA0366-14	2 ml	1.0	0.5	0.5	10	0	
MDA0366-15	2 ml	1.0	0.5	0.5	10	0	
MDA0366-16	2 ml	1.0	0.5	0.5	10	0	
MDA0366-17	2 ml	1.0	0.5	0.5	10	0	
MDA0366-18	2 ml	1.0	0.5	0.5	10	0	
MDA0366-19	2 ml	1.0	0.5	0.5	10	0	

Prepped samples were heated overnight at 40°C in a water bath.
 Derivatized samples were diluted into well plate for analysis as follows
 (100 µL 2% phosphoric acid / 700 µL water / 200 µL derivatized extract)

Reagents

FMOc – 5 mg/mL in Acet MCG0360-78 (tank)onitrile 2% Phosphoric Acid Buffer – 5 %
 Sodium Tetraborate

MLC 2/6/23

Sample Name	Sample Type	Acquisition Date	File Name	Dilution Factor	Analyte Peak Name	Analyte Peak Area (counts)	Analyte Concentration (ng/mL)	IS Peak Area (counts)	Calculated Concentration (ng/mL)	Accuracy (%)
1	250/500 ppb gly	2/2/2023 4:34:	020223_gly\	1.00	Glyphosate	6.01e+005	250.	1.14e+005	242.	96.8
2	250/500 ppb gly	2/2/2023 4:34:	020223_gly\	1.00	Glyphosate1	2.21e+005	250.	1.14e+005	245.	98.1
3	250/500 ppb gly	2/2/2023 4:34:	020223_gly\	1.00	AMPA	8.18e+005	500.	1.14e+005	514.	103.
4	250/500 ppb gly	2/2/2023 4:34:	020223_gly\	1.00	AMPA1	2.81e+005	500.	1.14e+005	513.	103.
5	125/250 ppb gly	2/2/2023 4:41:	020223_gly\	1.00	Glyphosate	4.22e+005	125.	1.21e+005	140.	112.
6	125/250 ppb gly	2/2/2023 4:41:	020223_gly\	1.00	Glyphosate1	1.43e+005	125.	1.21e+005	135.	108.
7	125/250 ppb gly	2/2/2023 4:41:	020223_gly\	1.00	AMPA	4.34e+005	250.	1.21e+005	224.	89.7
8	125/250 ppb gly	2/2/2023 4:41:	020223_gly\	1.00	AMPA1	1.43e+005	250.	1.21e+005	224.	89.5
9	50/100 ppb gly a	2/2/2023 4:47:	020223_gly\	1.00	Glyphosate	1.74e+005	50.0	1.51e+005	41.0	82.1
10	50/100 ppb gly a	2/2/2023 4:47:	020223_gly\	1.00	Glyphosate1	6.24e+004	50.0	1.51e+005	43.4	86.7
11	50/100 ppb gly a	2/2/2023 4:47:	020223_gly\	1.00	AMPA	2.76e+005	100.	1.51e+005	108.	108.
12	50/100 ppb gly a	2/2/2023 4:47:	020223_gly\	1.00	AMPA1	8.97e+004	100.	1.51e+005	107.	107.
13	25/50 ppb gly am	2/2/2023 4:54:	020223_gly\	1.00	Glyphosate	1.20e+005	25.0	1.63e+005	25.9	103.
14	25/50 ppb gly am	2/2/2023 4:54:	020223_gly\	1.00	Glyphosate1	4.14e+004	25.0	1.63e+005	26.1	105.
15	25/50 ppb gly am	2/2/2023 4:54:	020223_gly\	1.00	AMPA	1.72e+005	50.0	1.63e+005	60.3	121.
16	25/50 ppb gly am	2/2/2023 4:54:	020223_gly\	1.00	AMPA1	5.89e+004	50.0	1.63e+005	62.6	125.
17	12.5/25 ppb gly a	2/2/2023 5:01:	020223_gly\	1.00	Glyphosate	7.65e+004	12.5	2.09e+005	12.7	102.
18	12.5/25 ppb gly a	2/2/2023 5:01:	020223_gly\	1.00	Glyphosate1	2.51e+004	12.5	2.09e+005	12.0	95.9
19	12.5/25 ppb gly a	2/2/2023 5:01:	020223_gly\	1.00	AMPA	8.37e+004	25.0	2.09e+005	21.3	85.4
20	12.5/25 ppb gly a	2/2/2023 5:01:	020223_gly\	1.00	AMPA1	2.91e+004	25.0	2.09e+005	21.4	85.5
21	6.25/12.5 ppb gly	2/2/2023 5:08:	020223_gly\	1.00	Glyphosate	4.43e+004	6.25	2.35e+005	6.53	104.
22	6.25/12.5 ppb gly	2/2/2023 5:08:	020223_gly\	1.00	Glyphosate1	1.62e+004	6.25	2.35e+005	6.67	107.
23	6.25/12.5 ppb gly	2/2/2023 5:08:	020223_gly\	1.00	AMPA	5.56e+004	12.5	2.35e+005	11.8	94.2
24	6.25/12.5 ppb gly	2/2/2023 5:08:	020223_gly\	1.00	AMPA1	1.98e+004	12.5	2.35e+005	11.4	90.9
25	RINSE	2/2/2023 5:15:	020223_gly\	1.00	Glyphosate	0.00e+000	0.00	2.56e+005	No Peak	N/A
26	RINSE	2/2/2023 5:15:	020223_gly\	1.00	Glyphosate1	0.00e+000	0.00	2.56e+005	No Peak	N/A
27	RINSE	2/2/2023 5:15:	020223_gly\	1.00	AMPA	1.48e+004	0.00	2.56e+005	1.43	N/A
28	RINSE	2/2/2023 5:15:	020223_gly\	1.00	AMPA1	0.00e+000	0.00	2.56e+005	No Peak	N/A
29	BDB0006-BLK1	2/2/2023 5:21:	020223_gly\	1.00	Glyphosate	0.00e+000	0.00	2.60e+005	No Peak	N/A

Atrazine

Response Ratio

8.00e-002

7.50e-002

7.00e-002

6.50e-002

6.00e-002

5.50e-002

5.00e-002

4.50e-002

4.00e-002

3.50e-002

3.00e-002

2.50e-002

2.00e-002

1.50e-002

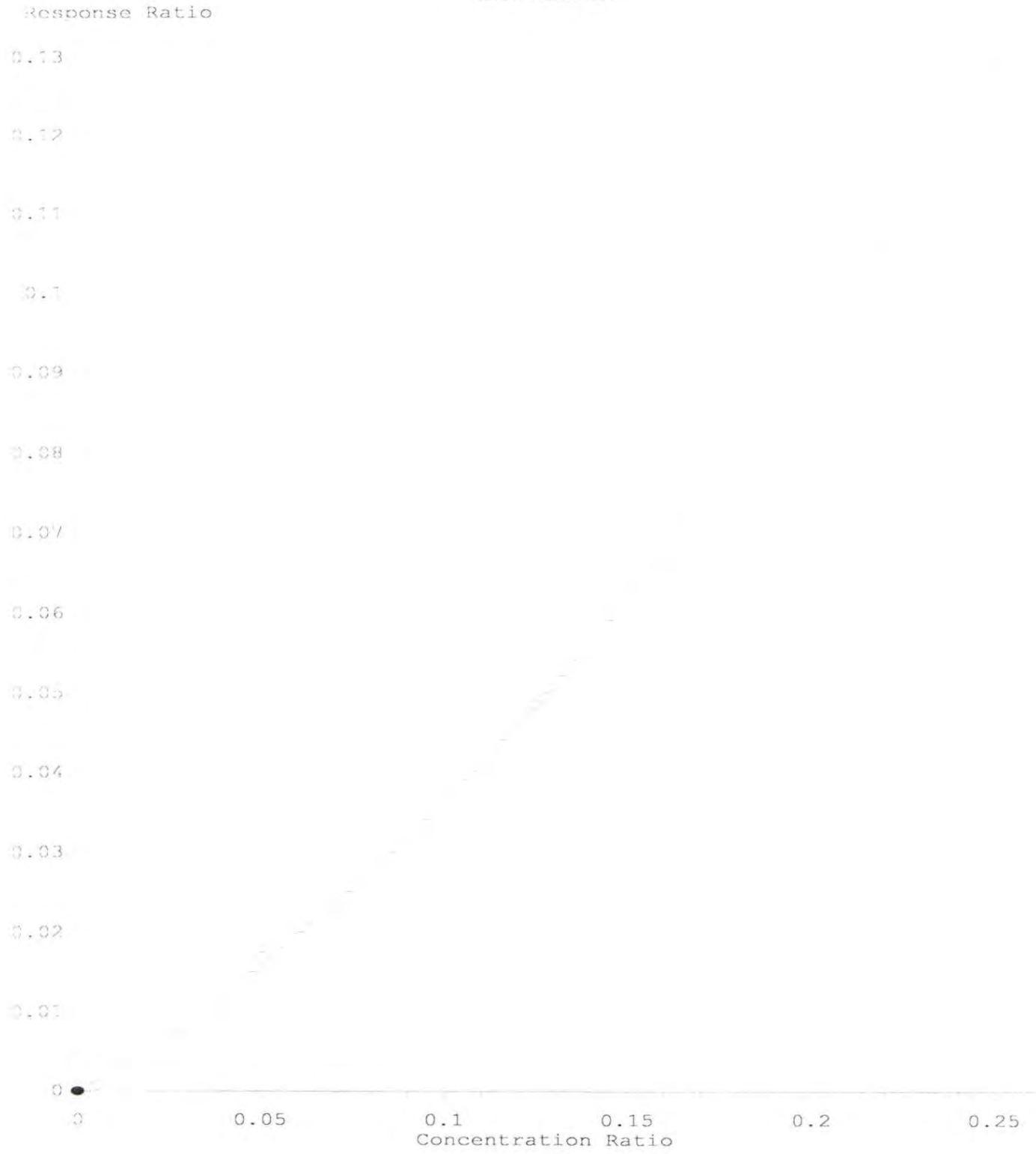
1.00e-002

5.00e-003



$5.63e-001 A^2 + 1.71e-001 A + 0.00e+000$
Coef of Det (r^2) = 0.999 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2023\Card-0223.M
Calibration Table Last Updated: Thu Feb 23 09:42:39 2023

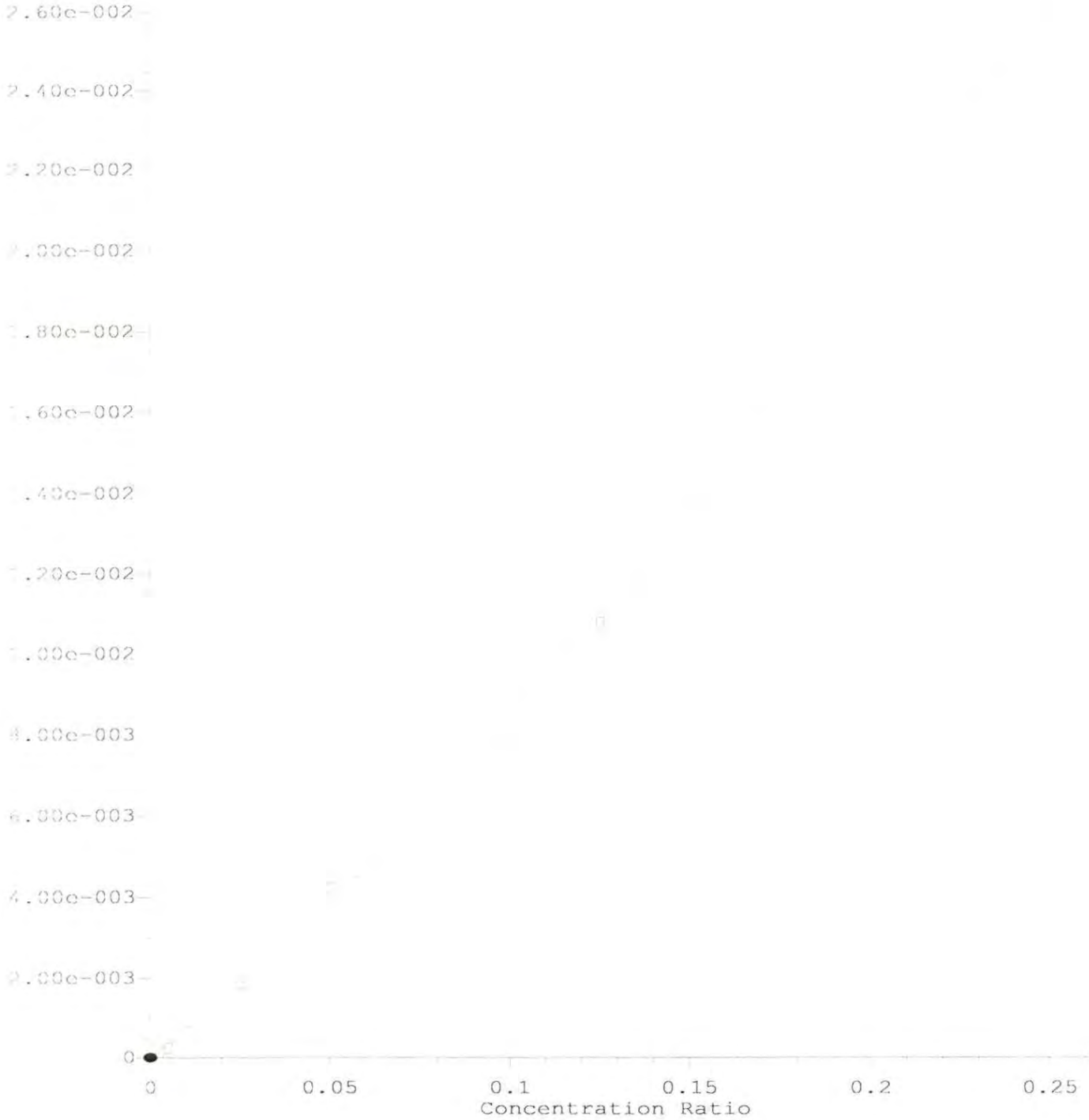
Metolachlor



9.83e-001 A*A + 2.64e-001 A + 0.00e+000
Coef of Det (r^2) = 0.999 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2023\Card-0223.M
Calibration Table Last Updated: Thu Feb 23 09:42:39 2023

Chlorpyrifos

Response Ratio



$y = 1.43e-001 A^2 + 7.03e-002 A + 0.00e+000$
Coef of Det (r^2) = 0.999 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2023\Card-0223.M
Calibration Table Last Updated: Thu Feb 23 09:42:39 2023

PREPARATION BENCH SHEET

Organics

BDB0425

Matrix: Water

Prepared using: SVOC - SVOC Water

Analyses
SVOC 625 MISC

Spiking Solution(s)
2201385 Cardno Spk 100

Surrogate Solution(s)
2201008 CLP Acid Surr 2000
2202928 CLP B/N 1000

Analysis	Lab Number	Sample and Source ID	Date Due	Extract by	Prepared - By	Initial (mL)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments
QC	BDB0425-BLK1	Blank			1/30/23 0:40 MAH	1000	1		25	
QC	BDB0425-BS1	LCS			1/30/23 0:40 MAH	1000	1	50	25	
QC	BDB0425-BSD1	LCS Dup			1/30/23 0:40 MAH	1000	1	50	25	
SVOC 625 MISC	WDA1107-14	WW-3	02/07/2023	01/30/2023	1/30/23 0:40 MAH	1000	1		25	
SVOC 625 MISC	WDA1107-15	E-2	02/07/2023	01/30/2023	1/30/23 0:40 MAH	1000	1		25	
SVOC 625 MISC	WDA1107-16	E-1	02/07/2023	01/30/2023	1/30/23 0:40 MAH	1000	1		25	Analyzed 2/22/23 due to lab error
SVOC 625 MISC	WDA1107-17	E-1 DUP	02/07/2023	01/30/2023	1/30/23 0:40 MAH	1000	1		25	

Standard	Description	LotNum
2000154	Acetone - GC grade	59074
2000155	H2SO4	58115
2200634	Dichloromethane	SHBP1472
2201798	CLP I.S. Spike 2000	042121

Batch Comments:
 Acidic start/stop time: 3PM- 8AM
 Basic start/stop time: 8AM-3PM
 Instrument: 7890/5975 GCMS
 Ext. Method: 3520C liq-llq/Waste Dilution/Microextr
 TurboVap: 01
 Balance: 04



Analyst: _____ Date _____

2-13-23

Run Date: _____ Date _____

Internal Standard ICal Average Responses 022223 CARDNO
(method)

	1,4 Dichlorobenzene-d4	Naphthalene-d8	Acenaphthene-d10	Phenanthrene-d10	Chrysene-d12	Perylene-d12
0.05	21065539.4		25655748.95	44045119.54	31773233.97	
5	26050900.67		30217542.5	48709375.9	32525234.98	
2.5	24739232.6		29817282.81	47462447.75	27061507.09	
1	24644487.52		28868877.25	46873881.53	33962530.71	
0.5	24367970.81		28918877.44	47329502.89	34261285.6	
0.1	23322077.88		27786418.19	44448094.01	28862661.94	
Average	24031701	#DIV/0!	28544125	46478070	31407742	#DIV/0!

50% 12015851 #DIV/0! 14272062 23239035 15703871 #DIV/0!
 150% 36047552 #DIV/0! 42816187 69717105 47111614 #DIV/0!

Analyst: _____ MH

DFTPP

Data Path : T:\Data1\MSD4\2023\FEB\22CARD\
 Data File : 00102002.D
 Acq On : 22 Feb 2023 2:01 pm
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration File: events.e

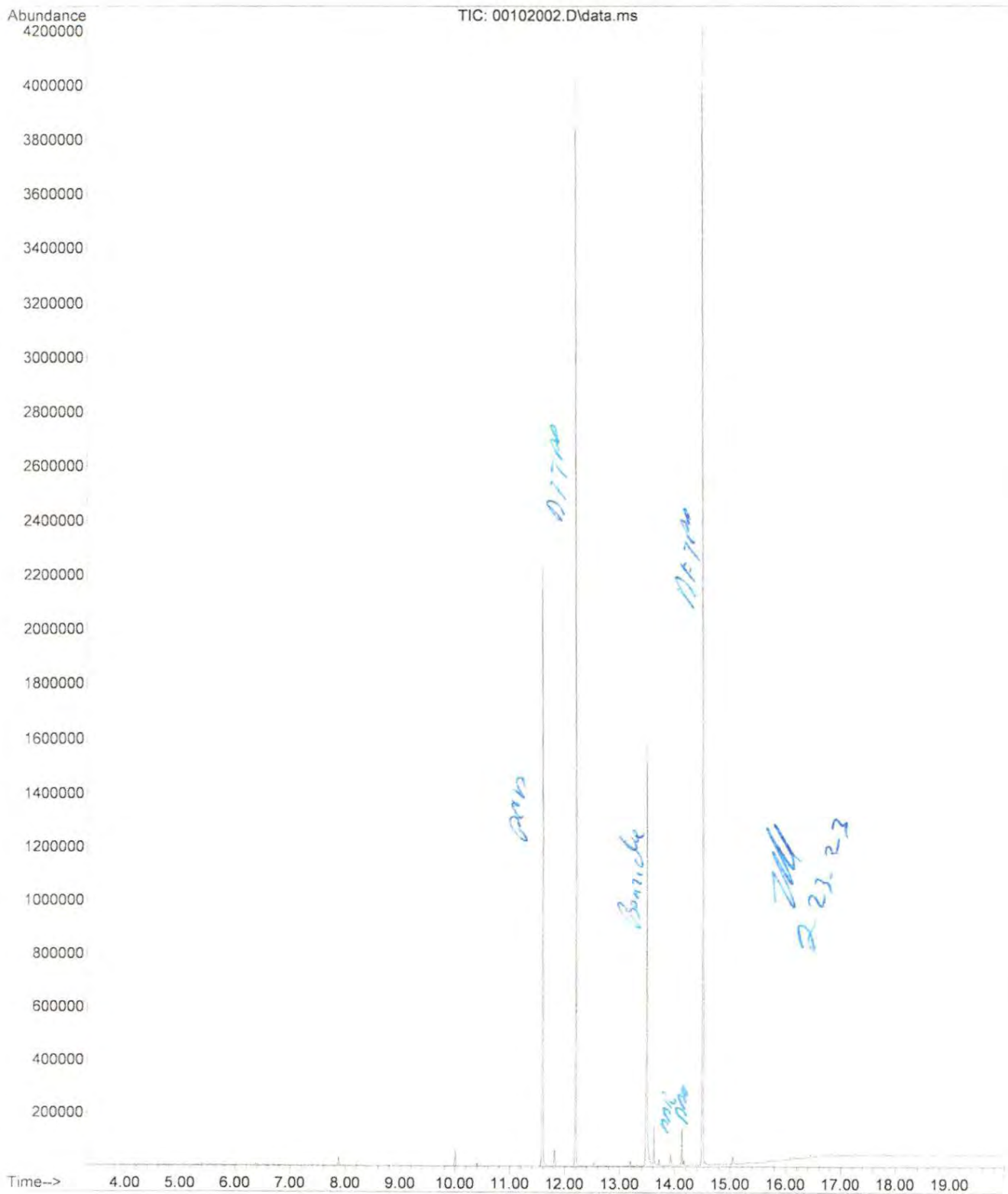
Method : T:\Data1\MSD4\METHODS\2023\Card-0222.M
 Title : EPA 8270D - GC MSD4
 Last Update : Wed Feb 22 15:57:07 2023

AutoFind: Scans 1931, 1932, 1933; Background Corrected with Scan 1923

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.3	112037	PASS
68	69	0.00	2	1.8	2022	PASS
69	198	0.00	100	33.9	114173	PASS
70	69	0.00	2	0.6	670	PASS
127	198	25	75	48.1	161957	PASS
197	198	0.00	1	0.0	0	PASS
198	198	100	100	100.0	336661	PASS
199	198	5	9	6.7	22723	PASS
275	198	10	60	32.1	108104	PASS
365	198	0.00	100	5.5	18503	PASS
441	443	0.01	100	73.4	77469	PASS
442	198	39	200	156.0	525291	PASS
443	442	15	24	20.1	105579	PASS

Card-0222.M Thu Feb 23 09:07:32 2023

File : T:\Data1\MSD4\2023\FEB\22CARD\00102002.D
Operator : MAH
Acquired : 22 Feb 2023 2:01 pm using AcqMethod SV0CT1.M
Instrument : MSD4
Sample Name: SYS
Misc Info :
Vial Number: 1



Area Percent Report

Data Path : T:\Data1\MSD4\2023\FEB\22CARD\
Data File : 00102002.D
Acq On : 22 Feb 2023 2:01 pm
Operator : MAH
Sample : SYS
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: autoint1.e
Integrator: ChemStation

Method : T:\Data1\MSD4\METHODS\2023\BNA-0220.M
Title : EPA 8270D / EPA 625.1 - MSD4

Signal : TIC: 00102002.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total	
1	13.716	2257	2261	2266	M5	22982	225259	0.52%	0.506%	DDE
2	14.126	2345	2350	2354	M	138771	1262687	2.93%	2.836%	DDD
3	14.495	2421	2430	2439	M	4249663	43031284	100.00%	96.658%	DDT

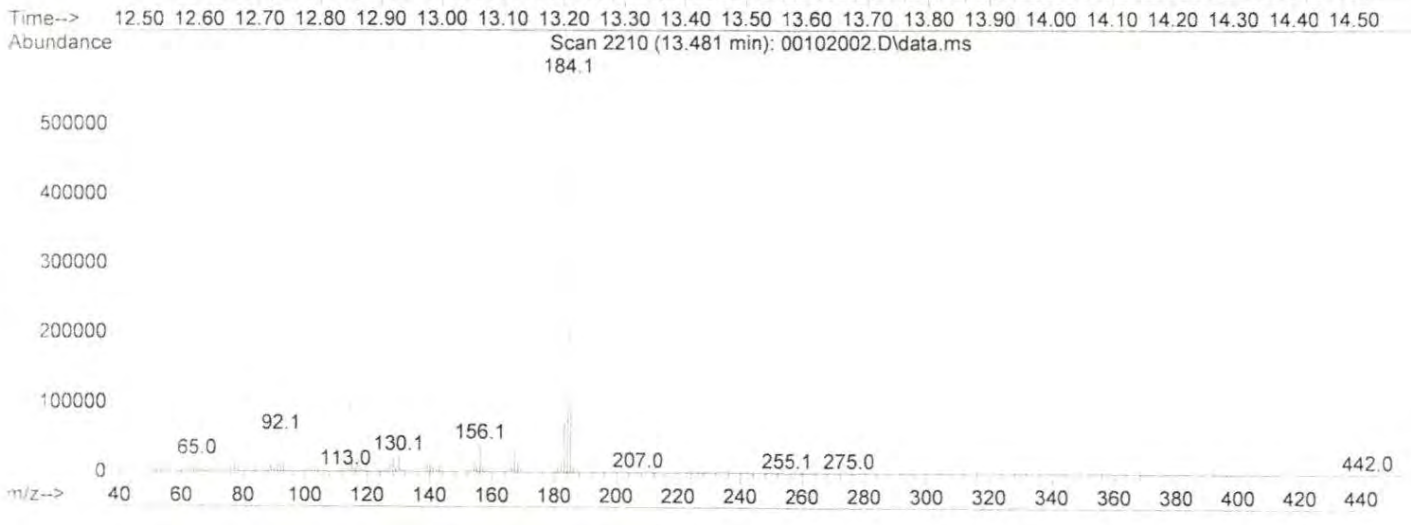
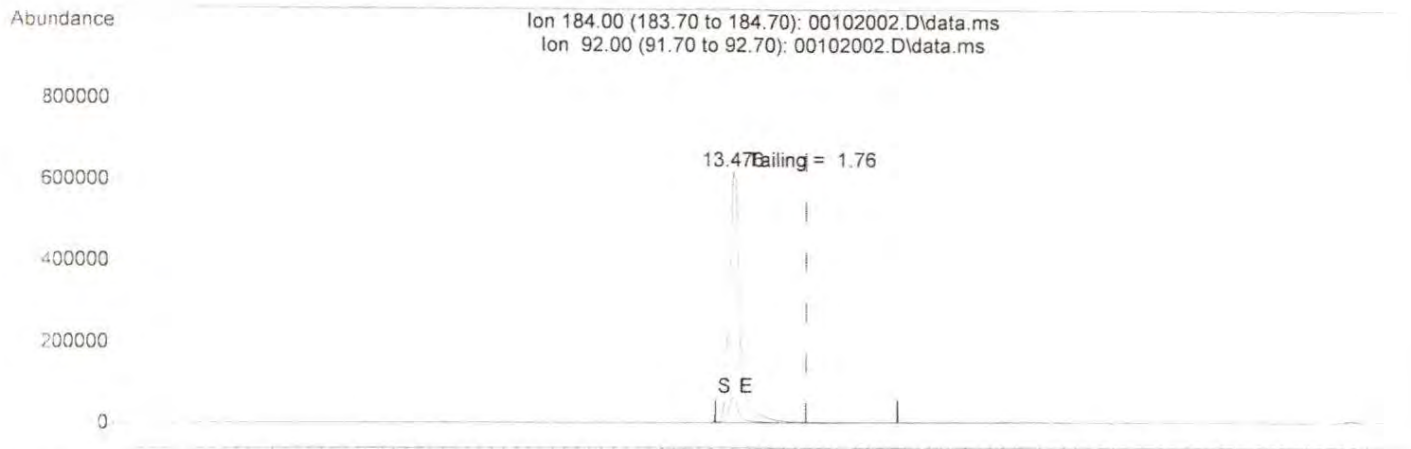
Sum of corrected areas: 44519231

BNA-0220.M Thu Feb 23 12:59:28 2023

Quantitation Report (Qedit)

Data Path : T:\Data1\MSD4\2023\FEB\22CARD\
 Data File : 00102002.D
 Acq On : 22 Feb 2023 2:01 pm
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 12:51:37 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\BNA-0220.M
 Quant Title : EPA 8270D / EPA 625.1 - MSD4
 Quant Update : Tue Feb 21 11:15:39 2023
 Response via : Initial Calibration



TIC: 00102002.D\data.ms

(74) Benzidine

13.480min (-0.118) 0.00 ug/mL

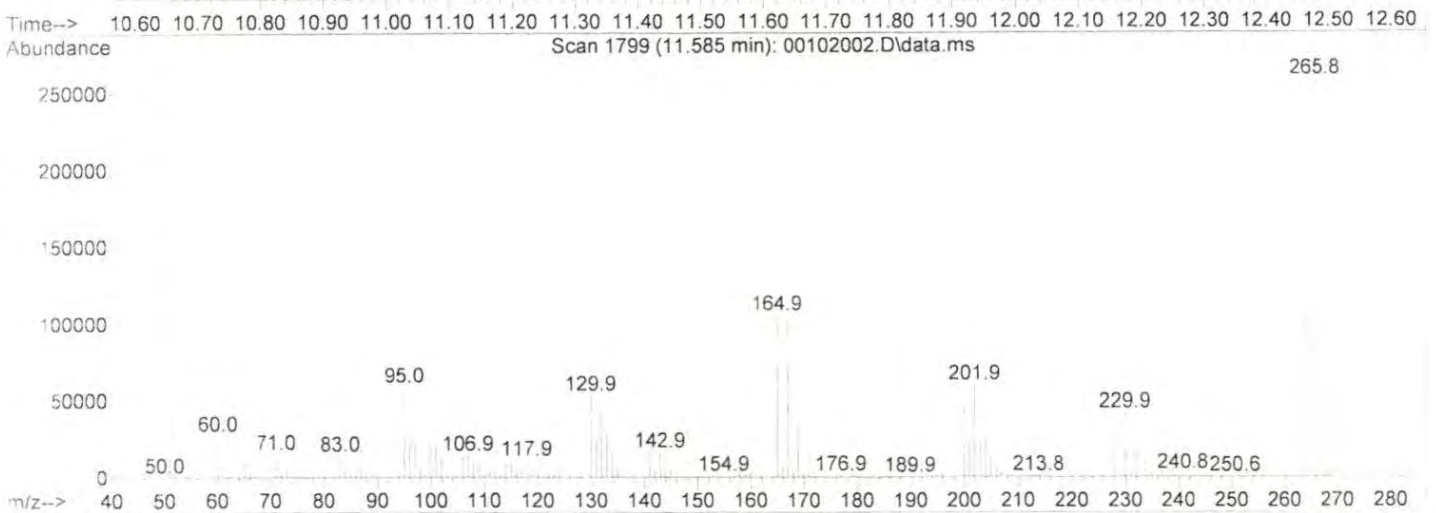
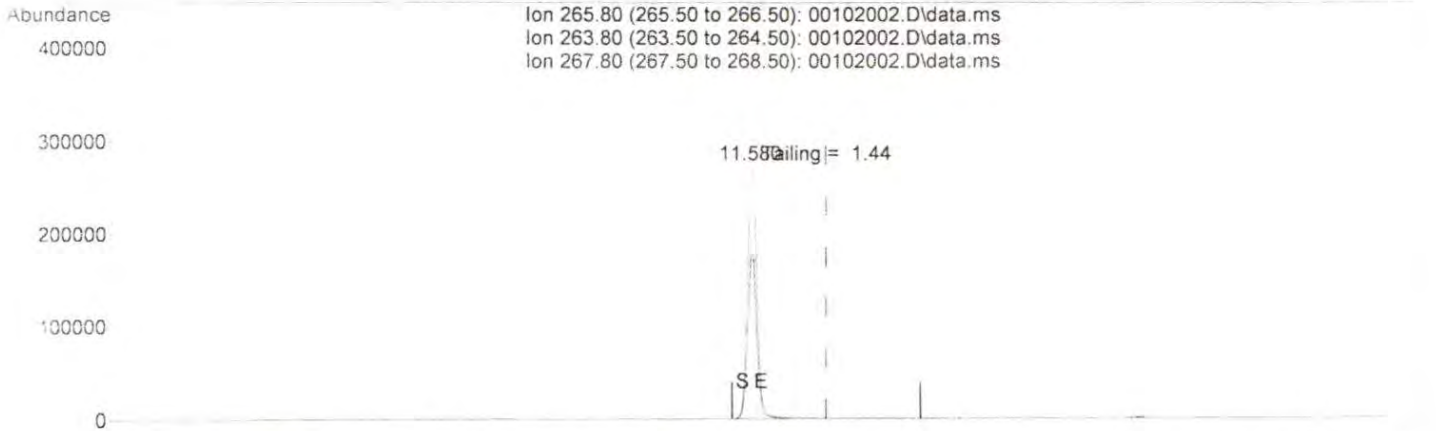
response 7349154

Ion	Exp%	Act%
184.00	100.00	100.00
92.00	10.60	9.98
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\Data1\MSD4\2023\FEB\22CARD\
 Data File : 00102002.D
 Acq On : 22 Feb 2023 2:01 pm
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 23 12:51:37 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\BNA-0220.M
 Quant Title : EPA 8270D / EPA 625.1 - MSD4
 Last Update : Tue Feb 21 11:15:39 2023
 Response via : Initial Calibration



TIC: 00102002.D\data.ms

(68) Pentachlorophenol

11.585min (-0.116) 0.00 ug/mL

response 2824654

Ion	Exp%	Act%
265.80	100.00	100.00
263.80	60.40	62.48
267.80	62.30	64.23
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\22CARD\
 Data File : 00201003.D
 Acq On : 22 Feb 2023 2:29 pm
 Operator : MAH
 Sample : CARDNO 5 PPM
 Visc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 23 12:15:33 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Card-0223.M
 Quant Title : EPA 8270D - GC MSD4
 Quant Update : Thu Feb 23 09:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.394	150	26051042	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.004	164	30215599	20.00	ug/mL	# 0.00
5) Phenanthrene-d10	11.823	188	48905094	20.00	ug/mL	# 0.00
8) Chrysene-d12	15.059	240	32344004	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.191	172	53465711	24.61	ug/mL	0.00
9) Terphenyl-d14	13.790	244	32593072	24.98	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	99.92%	
Target Compounds						
						Qvalue
4) Atrazine	11.494	200	2360163	5.01	ug/mL	97
6) Metolachlor	12.685	162	6198670	4.98	ug/mL	99
7) Chlorpyrifos	12.690	197	1304017	5.03	ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\22CARD\
 Data File : 00301004.D
 Acq On : 22 Feb 2023 2:56 pm
 Operator : MAH
 Sample : CARDNO 2.5 PPM
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 23 12:14:18 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Card-0223.M
 Quant Title : EPA 8270D - GC MSD4
 Quant Update : Thu Feb 23 09:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.393	150	24739233	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.003	164	29817283	20.00	ug/mL	# 0.00
5) Phenanthrene-d10	11.822	188	47462448	20.00	ug/mL	# 0.00
8) Chrysene-d12	15.057	240	27061507	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.190	172	52184530	25.29	ug/mL	0.00
9) Terphenyl-d14	13.792	244	30388764	27.83	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	111.32%
Target Compounds						
						Qvalue
4) Atrazine	11.491	200	887666	2.47	ug/mL	98
6) Metolachlor	12.682	162	2293811	2.50	ug/mL	99
7) Chlorpyrifos	12.692	197	509402	2.45	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\22CARD\
 Data File : 00401005.D
 Acq On : 22 Feb 2023 3:24 pm
 Operator : MAH
 Sample : CARDNO 1 PPM
 Visc :
 A/S Vial : 4 Sample Multiplier: 1

Quant Time: Feb 23 09:47:03 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Card-0223.M
 Quant Title : EPA 8270D - GC MSD4
 Qlast Update : Thu Feb 23 09:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) Dichlorobenzene-d5	6.394	150	24644488	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.003	164	28868877	20.00	ug/mL	# 0.00
5) Phenanthrene-d10	11.822	188	46873882	20.00	ug/mL	# 0.00
8) Chrysene-d12	15.060	240	33962531	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.191	172	51009909	24.82	ug/mL	0.00
9) Terphenyl-d14	13.790	244	32619924	23.81	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	95.24%	
Target Compounds						
						Qvalue
4) Atrazine	11.490	200	309149	1.07	ug/mL	97
6) Metolachlor	12.685	162	791905	1.07	ug/mL	98
7) Chlorpyrifos	12.690	197	196947	1.08	ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\22CARD\
 Data File : 00501006.D
 Acq On : 22 Feb 2023 3:52 pm
 Operator : MAH
 Sample : CARDNO 0.5 PPM
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 23 09:46:25 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Card-0223.M
 Quant Title : EPA 8270D - GC MSD4
 Qlast Update : Thu Feb 23 09:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) Dichlorobenzene-d5	6.395	150	24367971	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.004	164	28918877	20.00	ug/mL	# 0.00
5) Phenanthrene-d10	11.823	188	47329503	20.00	ug/mL	# 0.00
8) Chrysene-d12	15.060	240	34261286	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.191	172	50379256	24.79	ug/mL	0.00
9) Terphenyl-d14	13.791	244	33528904	24.26	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	97.04%	
Target Compounds						
						Qvalue
4) Atrazine	11.491	200	131857	0.49	ug/mL	97
6) Metolachlor	12.683	162	331403m	0.49	ug/mL	
7) Chlorpyrifos	12.690	197	88437	0.51	ug/mL	99

#) - qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\22CARD\
 Data File : 00601007.D
 Acq On : 22 Feb 2023 4:19 pm
 Operator : MAH
 Sample : CARDNO 0.1 PPM
 Vial :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 23 09:45:20 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Card-0223.M
 Quant Title : EPA 8270D - GC MSD4
 Qlast Update : Thu Feb 23 09:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) Dichlorobenzene-d5	6.393	150	23322078	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.003	164	27786418	20.00	ug/mL #	0.00
5) Phenanthrene-d10	11.823	188	44448094	20.00	ug/mL #	0.00
8) Chrysene-d12	15.058	240	28862662	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.190	172	49111124	25.25	ug/mL	0.00
9) Terphenyl-d14	13.792	244	30088220	25.84	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	103.36%	
Target Compounds						
						Qvalue
4) Atrazine	11.488	200	16266	0.07	ug/mL#	33
6) Metolachlor	12.680	162	39480	0.07	ug/mL#	29
7) Chlorpyrifos	12.686	197	11073m	0.07	ug/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\22CARD\
 Data File : 00701008.D
 Acq On : 22 Feb 2023 4:47 pm
 Operator : MAH
 Sample : CARDNO 0.05 PPM
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 23 09:44:22 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Card-0223.M
 Quant Title : EPA 8270D - GC MSD4
 Qfast Update : Thu Feb 23 09:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Dichlorobenzene-d5	6.395	150	21065539	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.003	164	25655749	20.00	ug/mL #	0.00
5) Phenanthrene-d10	11.823	188	44045120	20.00	ug/mL #	0.00
8) Chrysene-d12	15.059	240	31773234	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.191	172	44360906	25.25	ug/mL	0.00
9) Terphenyl-d14	13.790	244	30037337	23.43	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	93.72%	
Target Compounds						
4) Atrazine	11.488	200	9221	0.04	ug/mL#	33
6) Metolachlor	12.681	162	23562	0.04	ug/mL#	29
7) Chlorpyrifos	12.683	197	6278m	0.04	ug/mL	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\22CARD\
 Data File : 00801009.D
 Acq On : 22 Feb 2023 5:15 pm
 Operator : MAH
 Sample : BDB0425-BLK1
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 23 12:17:23 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Card-0223.M
 Quant Title : EPA 8270D - GC MSD4
 Quant Update : Thu Feb 23 09:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.393	150	19058924	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.003	164	25103665	20.00	ug/mL	# 0.00
5) Phenanthrene-d10	11.820	188	37412827	20.00	ug/mL	# 0.00
8) Chrysene-d12	15.056	240	20955787	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.189	172	37455837	23.56	ug/mL	0.00
9) Terphenyl-d14	13.791	244	20173761	23.86	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	95.44%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\22CARD\
 Data File : 00901010.D
 Acq On : 22 Feb 2023 5:42 pm
 Operator : MAH
 Sample : WDA1107-16
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Quant Time: Feb 23 12:19:47 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Card-0223.M
 Quant Title : EPA 8270D - GC MSD4
 Qlast Update : Thu Feb 23 09:42:39 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Dichlorobenzene-d5	6.394	150	19154492	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.002	164	25833282	20.00	ug/mL #	0.00
5) Phenanthrene-d10	11.820	188	41411950	20.00	ug/mL #	0.00
8) Chrysene-d12	15.056	240	22468960	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.188	172	36005169	22.54	ug/mL	0.00
9) Terphenyl-d14	13.791	244	22001683	24.27	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	97.08%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Starting sequence Wed Feb 22 13:25:49 2023

Instrument Name: MSD4

Sequence File: T:\Data1\MSD4\SEQUENCES\2022\022023.s

Comment: 6270

Operator: MAH

Data Path: T:\DATA1\MSD4\2023\FEB\22CARD\

Method Path: C:\MSDCHEM\1\METHODS\

Line Type	Vial	DataFile	Method	Sample Name
1) Sample	1	00101001	SVOCT1	IN
2) Sample	1	00102002	SVOCT1	SYS
3) Sample	2	00201003	CARDSIM	CARDNO 5 PPM
4) Sample	3	00301004	CARDSIM	CARDNO 2.5 PPM
5) Sample	4	00401005	CARDSIM	CARDNO 1 PPM
6) Sample	5	00501006	CARDSIM	CARDNO 0.5 PPM
7) Sample	6	00601007	CARDSIM	CARDNO 0.1 PPM
8) Sample	7	00701008	CARDSIM	CARDNO 0.05 PPM
9) Sample	8	00801009	CARDSIM	BDB0425-BLK1
10) Sample	9	00901010	CARDSIM	WDA1107-16

Sequence completed Wed Feb 22 18:03:14 2023

T:\DATA1\MSD4\2023\FEB\22CARD\2023 Feb 22 1325 Quality Log.LOG

T:\DATA1\MSD4\2023\FEB\22CARD\2023 Feb 22 1325 Sequence Log .LOG



Anatek Labs, Inc

1282 Alturas Drive
Moscow, ID 83843

1,4-Dioxane Cal. Standard Prep. Form

Method: EPA 625.1/8270D

IS/Surrogate Standards

Standard	Reagent ID	Expiration	Concentration (ppm)
CLP B/N Surrogate	2101009	3/23	1000
CLP Internal Standard	2201012	3/23	2000


Target Compound Standards

Standard	Reagent ID	Expiration	Concentration (ppm)
Chlorpyrifos	2003215	6/23	1000
Metolachlor	2003216	3/23	1000
Atrazine	2003218	11/24	1000

Calibration Dilution Template

Desired Concentration (ppm)	Stock Concentration (ppm) **	uL Standard Added	Final Volume (uL)
10	100	100	1000
5	100	50	1000
2.5	100	25	1000
1.0	100	10	1000
0.5	100	5	1000
0.1	100	1	1000
0.05	100	0.5	1000

Calibration made from target compound standards in the table. 25 uL of surrogate and 10 uL of IS stock added to each standard point. Dilutions were made in MeCl₂ (2200721).

Analyst Initials: 

Date of Preparation: 1/05/23 by MAH

Form CS06.00 – Eff 9 Mar 2015

Page 1 of 1

Folder Path : J:\Data\MSM\AV%_FORM\2023\
 Method File : Card-0223.X
 Title : EPA 8270D - GC MSD4
 Last Update : Thu Feb 23 09:42:39 2023
 Response Via : Initial Calibration

Calibration Files
 0.05=00701008.D 5 =00201003.D 2.5 =00301004.D 1 =00401005.D 0.5 =00501006.D 0.1 =00601007.D

Compound	0.05	0.05	2.5	2.5	1	0.5	0.1	Avg	%RSD
1) I Dichlorobenzene-d5									
2) S 2-Fluorobiphenyl	1.685	1.642	1.688	1.656	1.654	1.685	1.668	1.19	
3) I Acenaphthene-d10									
4) Atrazine	0.144	0.312	0.238	0.214	0.182	0.117	0.201	34.80	
5) I Phenanthrene-d10									
6) Metolachlor	0.221	0.509	0.387	0.338	0.271	0.178	0.317	38.10	
7) Chlorpyrifos	0.056	0.106	0.086	0.084	0.075	0.049	0.076	27.93	
8) I Chrysene-d12									
9) S Terphenyl-d14	0.756	0.802	0.898	0.768	0.783	0.834	0.807	6.50	

(#) = Out of Range

Starting sequence Mon Feb 13 16:19:22 2023

Instrument Name: MSD4

Sequence File: T:\DATA1\MSD4\SEQUENCES\2022\021223.S

Comment: CARDNO 625 MISC

Operator: MAH

Data Path: T:\DATA1\MSD4\2023\FEB\13CARD\

Method Path: C:\MSDCHEM\1\METHODS\

Line Type	Vial	DataFile	Method	Sample Name
1) Sample	1	00101001	SVOCT1	SYS
2) Sample	2	00201002	CARDSIM	CARDNO 10 PPM
3) Sample	3	00301003	CARDSIM	CARDNO 5 PPM
4) Sample	4	00401004	CARDSIM	CARDNO 2.5 PPM
5) Sample	5	00501005	CARDSIM	CARDNO 1 PPM
6) Sample	6	00601006	CARDSIM	CARDNO 0.5 PPM
7) Sample	7	00701007	CARDSIM	CARDNO 0.1 PPM
8) Sample	8	00801008	CARDSIM	CARDNO 0.05 PPM
9) Sample	11	01101009	CARDSIM	BDB0425-BS1
10) Sample	12	01201010	CARDSIM	BDB0425-BS1
11) Sample	21	02101011	CARDSIM	BDB0426-BS1
12) Sample	22	02201012	CARDSIM	BDB0426-BS1
13) Sample	1	00101013	SVOCT1	SYS
14) Sample	13	01301014	CARDSIM	BDB0425-BLK1
15) Sample	23	02301015	CARDSIM	BDB0426-BLK1
16) Sample	14	01401016	CARDSIM	WDA1107-14
17) Sample	15	01501017	CARDSIM	WDA1107-15
18) Sample	16	01601018	CARDSIM	WDA1107-17
19) Sample	24	02401019	CARDSIM	WDB0365-12
20) Sample	25	02501020	CARDSIM	WDB0365-13
21) Sample	26	02601021	CARDSIM	WDB0365-14
22) Sample	27	02701022	CARDSIM	WDB0365-15

Sequence completed Tue Feb 14 02:17:59 2023

T:\DATA1\MSD4\2023\FEB\13CARD\2023 Feb 13 1619 Quality Log.LOG

T:\DATA1\MSD4\2023\FEB\13CARD\2023 Feb 13 1619 Sequence Log .LOG



Anatek Labs, Inc

1282 Alturas Drive
Moscow, ID 83843

1,4-Dioxane Cal. Standard Prep. Form

Method: EPA 625.1/8270D

IS/Surrogate Standards

Standard	Reagent ID	Expiration	Concentration (ppm)
CLP B/N Surrogate	2101009	3/23	1000
CLP Internal Standard	2201012	3/23	2000

Target Compound Standards

Standard	Reagent ID	Expiration	Concentration (ppm)
Chlorpyrifos	2003215	6/23	1000
Metolachlor	2003216	3/23	1000
Atrazine	2003218	11/24	1000

Calibration Dilution Template

Desired Concentration (ppm)	Stock Concentration (ppm) **	uL Standard Added	Final Volume (uL)
10	100	100	1000
5	100	50	1000
2.5	100	25	1000
1.0	100	10	1000
0.5	100	5	1000
0.1	100	1	1000
0.05	100	0.5	1000

Calibration made from target compound standards in the table. 25 uL of surrogate and 10 uL of IS stock added to each standard point. Dilutions were made in MeCl₂ (2200721).

Analyst Initials: MAH Date of Preparation: 1/05/23 by MAH

Form CS06.00 - Eff 9 Mar 2015

Page 1 of 1

Internal Standard ICal Average Responses CARDNO 021323
(method)

	1,4 Dichlorobenzene-d4	Naphthalene-d8	Acenaphthene-d10	Phenanthrene-d10	Chrysene-d12	Perylene-d12
0.05	23640745.99		29194263.63		26981339.48	
10	24974773.03		30544892.38		27380200.68	
5	27423796.02		32574677.5		29516142.6	
2.5	26169753.28		32040849.17		31983475.86	
1	25443959.49		31243188.01		28196867.79	
0.5	25715150.68		31828076.81		29590115.94	
0.1	24274031.79		29918867.11		24454229.31	
Average	25377459	#DIV/0!	31049259	#DIV/0!	28300339	#DIV/0!

50% 12688729 #DIV/0! 15524630 #DIV/0! 14150169 #DIV/0!
 150% 38066188 #DIV/0! 46573889 #DIV/0! 42450508 #DIV/0!

Analyst: MAH

Method Path : C:\Data\MSD4\MSD4\MSD4\2023\
 Method File : Cardo-0213.M
 Title : EPA 8270D - GC MSD4
 Last Update : Tue Feb 14 10:08:29 2023
 Response Via : Initial Calibration

Calibration Files

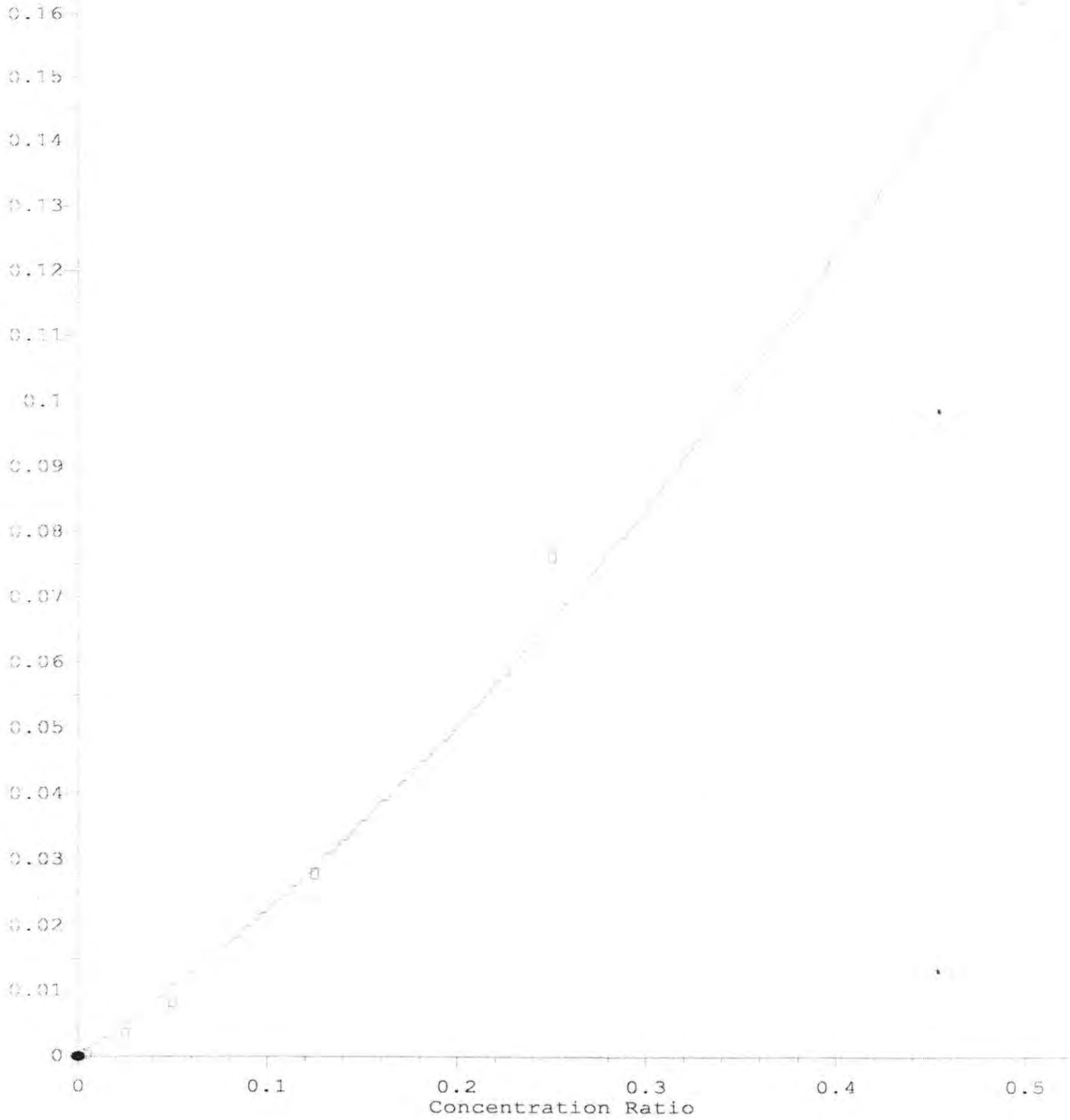
0.05=00801008.D 10 =00201002.D 5 =00301003.D 2.5 =00401004.D 1 =00501005.D 0.5 =00601006.D
 0.1 =00701007.D

Compound	0.05	10	5	2.5	1	0.5	0.1	Avg	%RSD
1) I Dichlorobenzene-d5									
2) S 2-Fluorobiphenyl	1.731	1.803	1.687	1.746	1.787	1.763	1.759	1.754	2.16
3) I Acenaphthene-d10									
4) Atrazine	0.120	0.323	0.304	0.223	0.168	0.140	0.102	0.197	44.97
5) Metolachlor	0.326	0.798	0.746	0.598	0.428	0.360	0.263	0.503	42.16
6) Chlorpyrifos	0.088	0.170	0.164	0.139	0.115	0.107	0.070	0.122	30.94
7) I Chrysene-d12									
8) S Terphenyl-d14	0.838	0.910	0.868	0.837	0.897	0.867	0.938	0.879	4.27

(#) = Out of Range

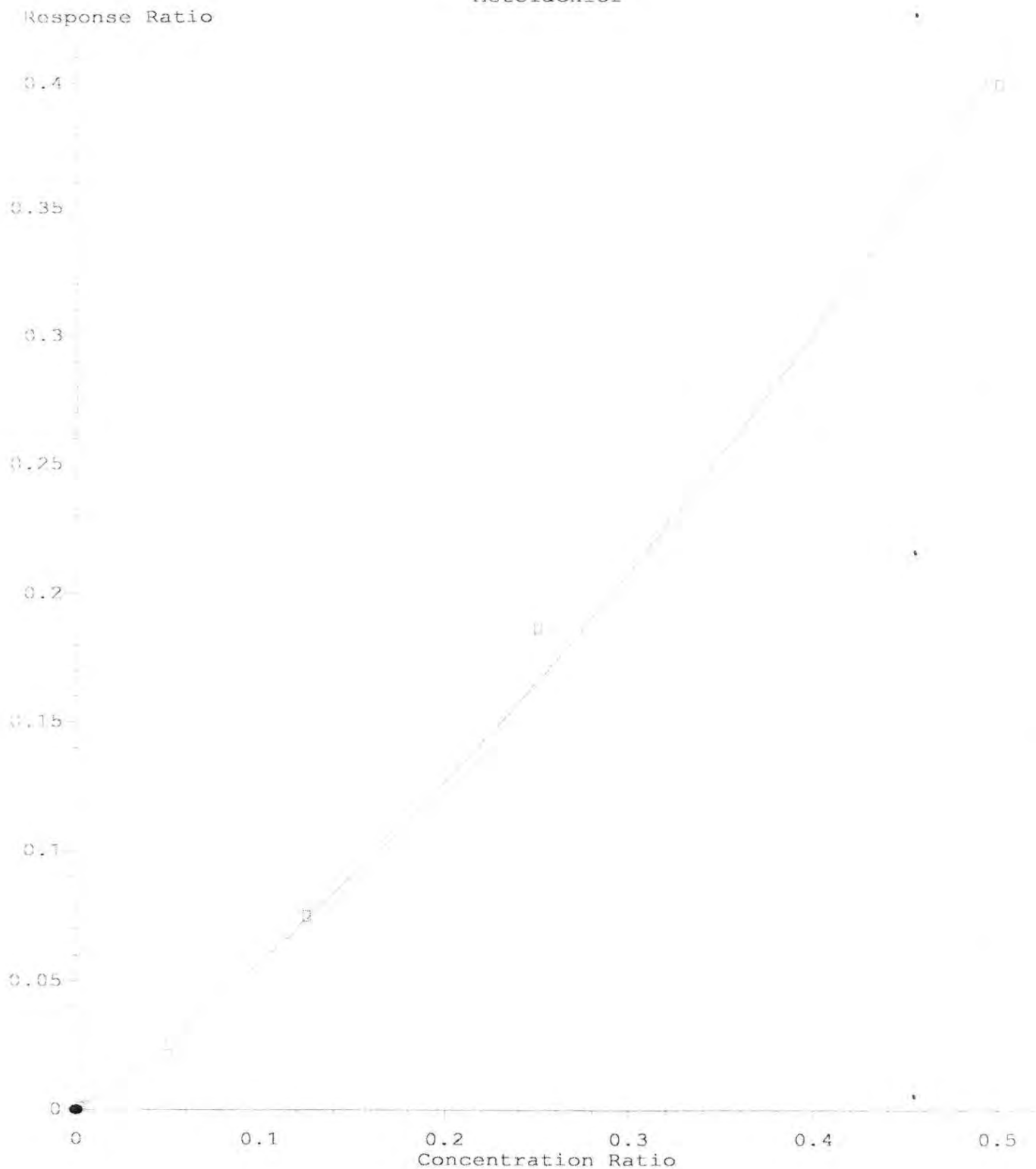
Atrazine

Response Ratio



$R^2 = 2.70e-001 A^2 + 1.97e-001 A + 0.00e+000$
Coef of Det (r^2) = 0.993 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
Calibration Table Last Updated: Tue Feb 14 10:08:29 2023

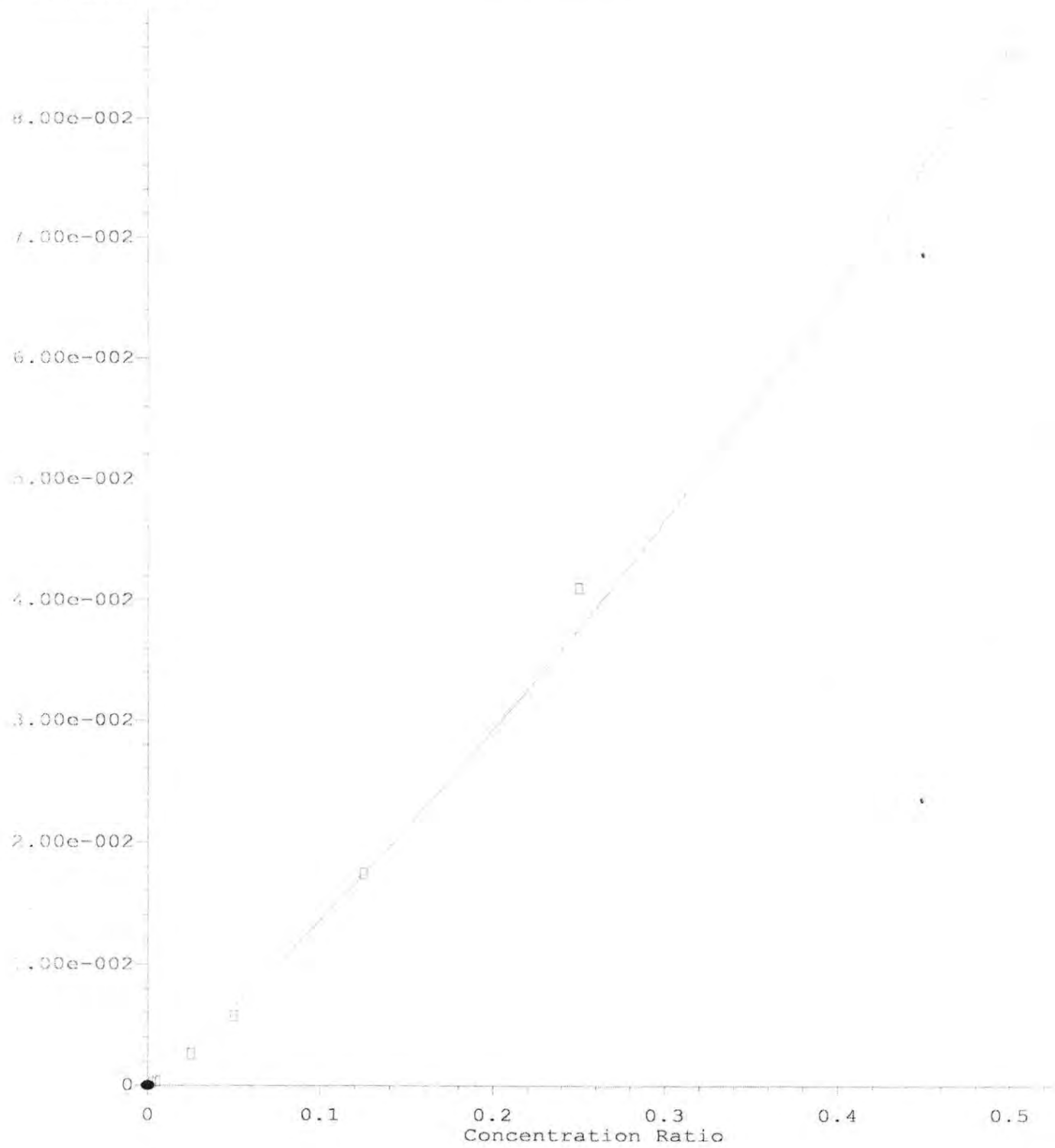
Metolachlor



$y = 6.08e-001 A^2 + 5.13e-001 A + 0.00e+000$
Coef of Det (r²) = 0.994 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
Calibration Table Last Updated: Tue Feb 14 10:08:29 2023

Chlorpyrifos

Response Ratio



$y = 9.16e-002 A^2 + 1.28e-001 A + 0.00e+000$
coef of Det (r^2) = 0.997 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
Calibration Table Last Updated: Tue Feb 14 10:08:29 2023

PREPARATION BENCH SHEET

Organics

BDB0425

Matrix: Water

Prepared using: SVOC - SVOC Water

Analyses
SVOC 625 MISC

Spiking Solution(s)
2201385 Cardno Spk 100

Surrogate Solution(s)
2201008 CLP Acid Surr 2000
2202928 CLP B/N 1000

Analysis	Lab Number	Sample and Source ID	Date Due	Extract by	Prepared - By	Initial (mL)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments
QC	BDB0425-BLK1	Blank			1/30/23 0:40 MAH	1000	1		25	
QC	BDB0425-BS1	LCS			1/30/23 0:40 MAH	1000	1	50	25	
QC	BDB0425-BSD1	LCS Dup			1/30/23 0:40 MAH	1000	1	50	25	
SVOC 625 MISC	WDA1107-14	WW-3	02/07/2023	01/30/2023	1/30/23 0:40 MAH	1000	1		25	
SVOC 625 MISC	WDA1107-15	E-2	02/07/2023	01/30/2023	1/30/23 0:40 MAH	1000	1		25	
SVOC 625 MISC	WDA1107-17	E-1 DUP	02/07/2023	01/30/2023	1/30/23 0:40 MAH	1000	1		25	

Reagents		
Standard	Description	LotNum
2000154	Acetone - GC grade	59074
2000155	H2SO4	58115
2200634	Dichloromethane	SHBP1472
2201798	CLP I.S. Spike 2000	042121

Batch Comments:

Acidic start/stop time: 3PM- 8AM
 Basic start/stop time: 8AM- 3PM
 Instrument: 7890/5975 GCMS
 Ext. Method: 3520C liq-liq/Waste Dilution/Microextr
 TurboVap: 01
 Balance: 04

[Signature]

2-13-23

Analyst: _____ Date: _____
 Run Date: _____ Date: _____

PREPARATION BENCH SHEET

Organics

BDB0426

Matrix: Water

Prepared using: SVOC - SVOC Water

Analyses
SVOC 625 MISC

Spiking Solution(s)
2201385 Cardno Spk 100

Surrogate Solution(s)
2201008 CLP Acid Surr 2000
2202928 CLP B/N 1000

Analysis	Lab Number	Sample and Source ID	Date Due	Extract by	Prepared - By	Initial (mL)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments
QC	BDB0426-BLK1	Blank			2/11/23 0:46 MAH	1000	1		25	
QC	BDB0426-BS1	LCS			2/11/23 0:46 MAH	1000	1	50	25	
QC	BDB0426-BSD1	LCS Dup			2/11/23 0:46 MAH	1000	1	50	25	
SVOC 625 MISC	WDB0365-12	WW-3	02/20/2023	02/11/2023	2/11/23 0:46 MAH	1000	1		25	
SVOC 625 MISC	WDB0365-13	E-2	02/20/2023	02/11/2023	2/11/23 0:46 MAH	860	1		25	
SVOC 625 MISC	WDB0365-14	E-1	02/20/2023	02/11/2023	2/11/23 0:46 MAH	1000	1		25	
SVOC 625 MISC	WDB0365-15	E-1 DUP	02/20/2023	02/11/2023	2/11/23 0:46 MAH	1000	1		25	

Standard	Description	LotNum
2000154	Acetone - GC grade	59074
2000155	H2SO4	58115
2200634	Dichloromethane	SHBP1472
2201798	CLP I.S. Spike 2000	042121

Batch Comments:

Acidic start/stop time: 3PM- 8AM
Basic start/stop time: 8AM-3PM
Instrument: 7890/5975 GCMS
Ext. Method: 3520C liq-liq/Waste Dilution/Microextr
Turbo/Vap: 01
Balance: 04

2-13-23

ML

Analyst: _____ Date: _____ Run Date: _____ Date: _____

DFTPP

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00101001.D
 Acq On : 13 Feb 2023 4:20 pm
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

Method : T:\Data1\MSD4\METHODS\2023\BNA-0210.M
 Title : EPA 8270D / EPA 625.1 - MSD4
 Last Update : Fri Feb 10 09:53:03 2023

AutoFind: Scans 1927, 1928, 1929; Background Corrected with Scan 1918

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	37.2	71795	PASS
68	69	0.00	2	1.8	1326	PASS
70	69	0.00	2	0.6	406	PASS
127	198	10	80	49.8	96157	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	193029	PASS
199	198	5	9	6.5	12547	PASS
275	198	10	60	30.9	59645	PASS
365	198	1	100	5.1	9813	PASS
441	443	0.01	150	75.8	40949	PASS
442	198	30	200	143.4	276757	PASS
443	442	15	24	19.5	54003	PASS

BNA-0210.M Tue Feb 14 08:53:19 2023

DFTPP

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00101013.D
 Acq On : 13 Feb 2023 9:50 pm
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Integration File: autoint1.e

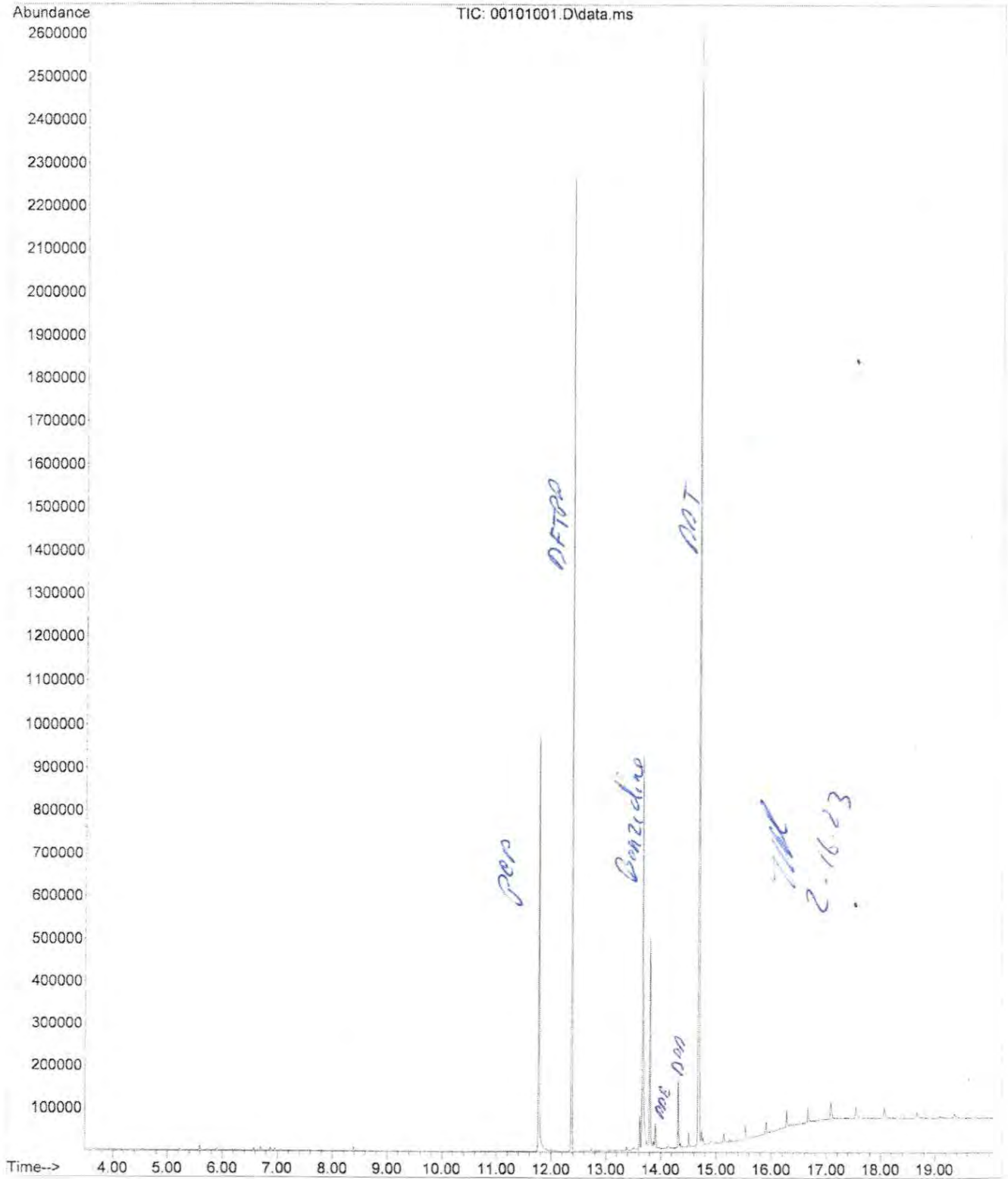
Method : T:\Data1\MSD4\METHODS\2023\BNA-0210.M
 Title : EPA 8270D / EPA 625.1 - MSD4
 Last Update : Fri Feb 10 09:53:03 2023

AutoFind: Scans 1926, 1927, 1928; Background Corrected with Scan 1916

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	36.4	63829	PASS
68	69	0.00	2	1.7	1106	PASS
70	69	0.00	2	0.6	378	PASS
127	198	10	80	49.2	86309	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	175280	PASS
199	198	5	9	6.7	11683	PASS
275	198	10	60	30.3	53053	PASS
365	198	1	100	5.2	9058	PASS
441	443	0.01	150	77.0	38453	PASS
442	198	30	200	147.3	258240	PASS
443	442	15	24	19.3	49925	PASS

BNA-0210.M Tue Feb 14 08:54:11 2023

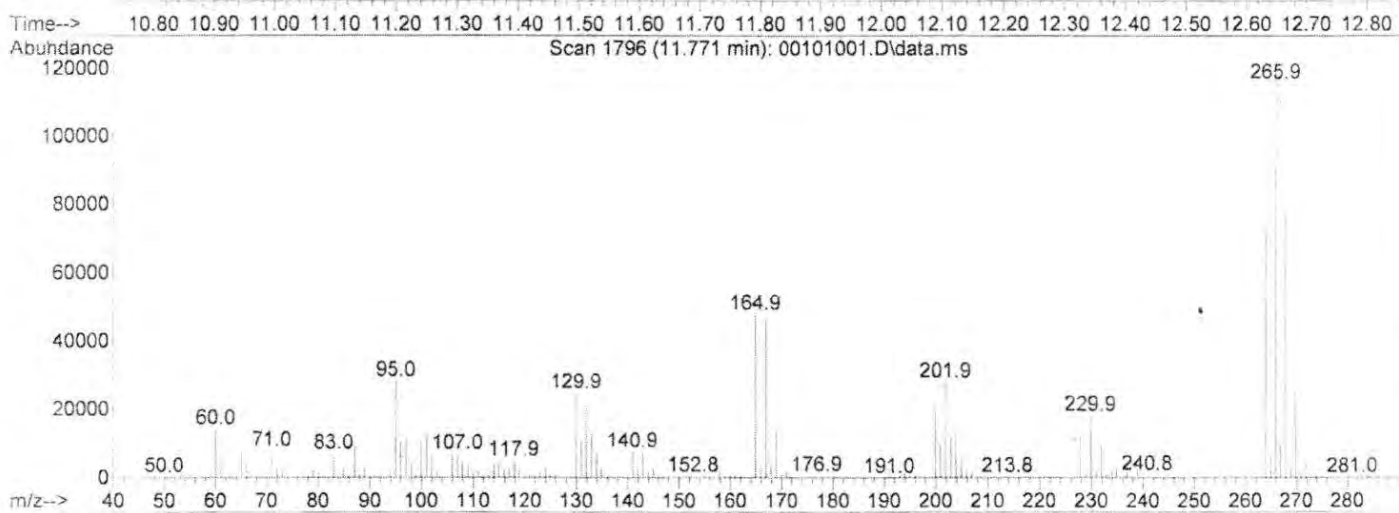
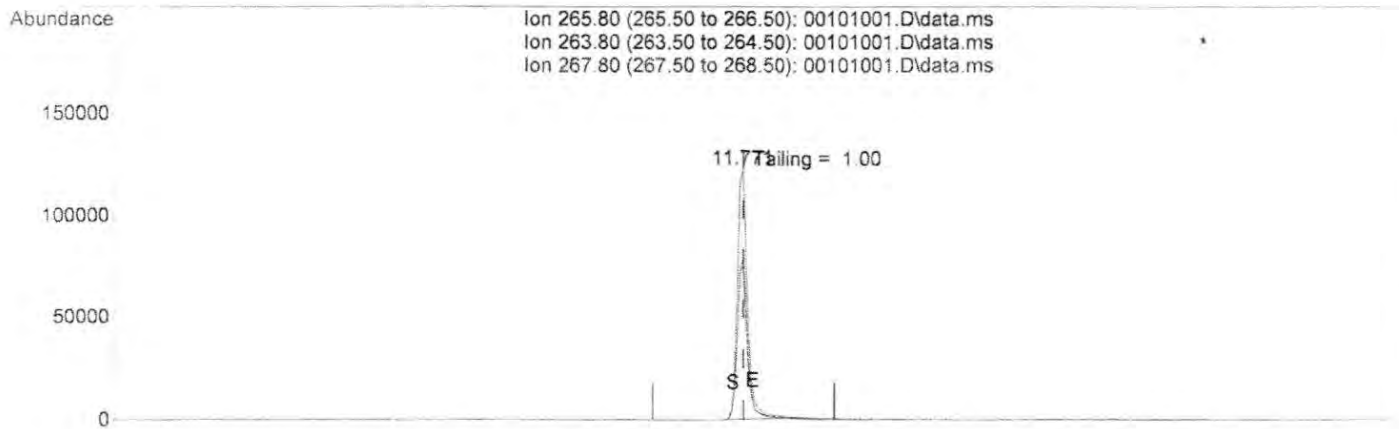
File :T:\Data1\MSD4\2023\FEB\13CARD\00101001.D
Operator : MAH
Acquired : 13 Feb 2023 4:20 pm using AcqMethod SVOCT1.M
Instrument : MSD4
Sample Name: SYS
Misc Info :
Vial Number: 1



Quantitation Report (Qedit)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00101001.D
 Acq On : 13 Feb 2023 4:20 pm
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 13 18:22:56 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\BNA-0210.M
 Quant Title : EPA 8270D / EPA 625.1 - MSD4
 Qlast Update : Fri Feb 10 09:53:03 2023
 Response via : Initial Calibration



TIC: 00101001.D\data.ms

(68) Pentachlorophenol

11.771min (-0.001) 0.00 ug/mL

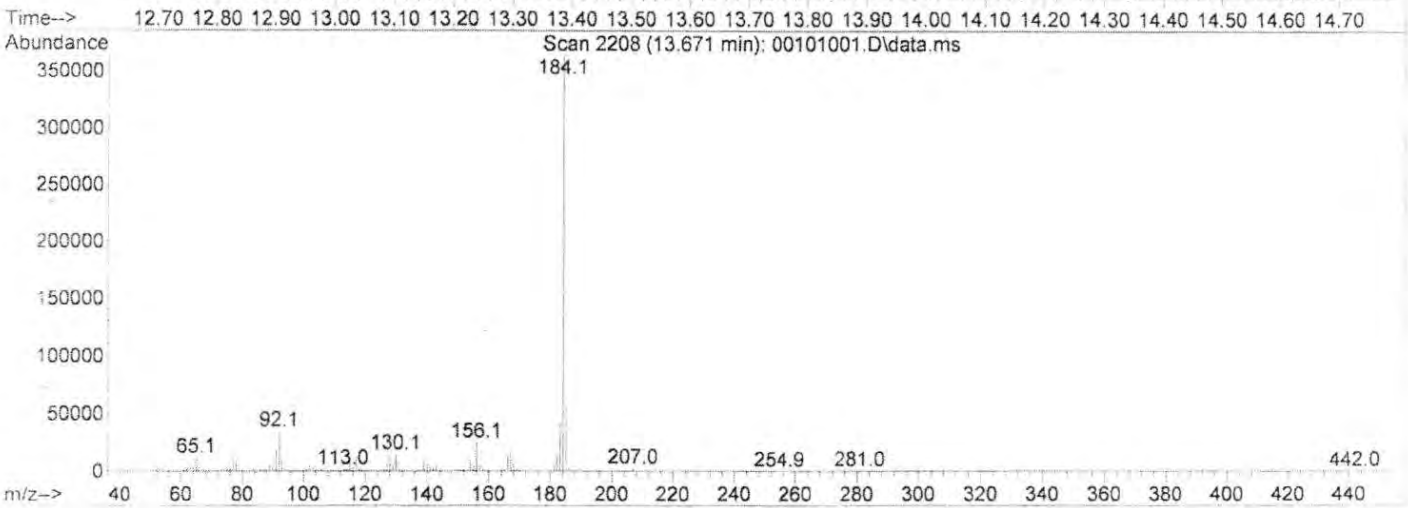
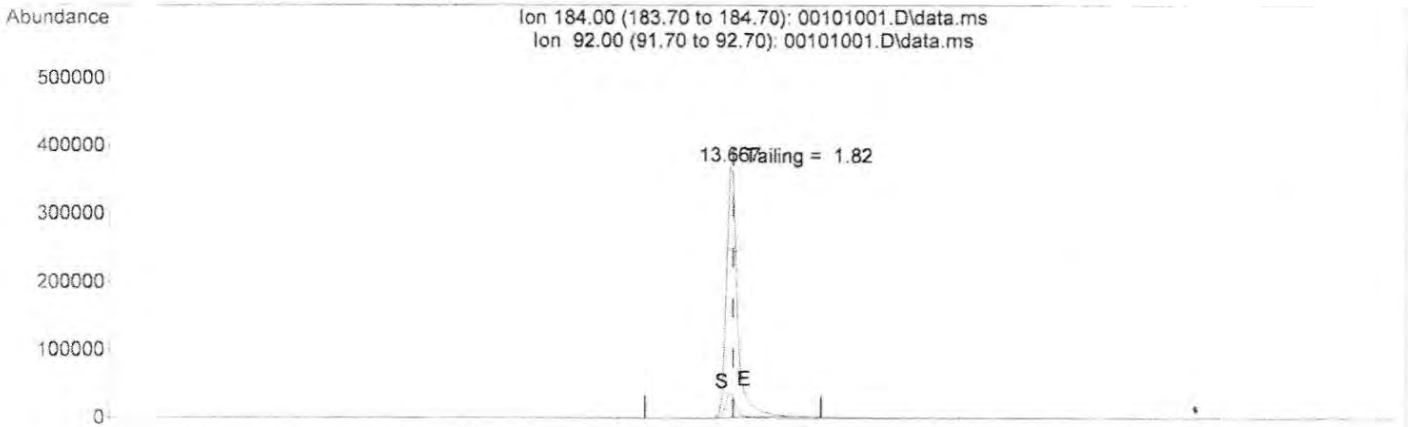
response 1419880

Ion	Exp%	Act%
265.80	100.00	100.00
263.80	60.40	62.27
267.80	62.30	63.99
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00101001.D
 Acq On : 13 Feb 2023 4:20 pm
 Operator : MAH
 Sample : SYS
 Misc :
 ALS Vial : 1 Sample Multiplier: 1

Quant Time: Feb 13 18:22:56 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\BNA-0210.M
 Quant Title : EPA 8270D / EPA 625.1 - MSD4
 Qlast Update : Fri Feb 10 09:53:03 2023
 Response via : Initial Calibration



TIC: 00101001.D\data.ms

(74) Benzidine

13.671min (-0.002) 0.00 ug/mL

response 4974436

Ion	Exp%	Act%
184.00	100.00	100.00
92.00	10.60	9.86
0.00	0.00	0.00
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00201002.D
 Acq On : 13 Feb 2023 4:47 pm
 Operator : MAH
 Sample : CARDNO 10 PPM
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 14 10:10:26 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.569	150	24974773	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.186	164	30544892	20.00	ug/mL #	0.00
7) Chrysene-d12	15.254	240	27380201	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.368	172	56274123	25.70	ug/mL	0.00
8) Terphenyl-d14	13.982	244	31130039	25.87	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	103.48%	
Target Compounds						
						Qvalue
4) Atrazine	11.677	200	4939497	9.81	ug/mL	97
5) Metolachlor	12.873	162	12184951	9.83	ug/mL	95
6) Chlorpyrifos	12.877	197	2598687	9.86	ug/mL	100

{#} = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00301003.D
 Acq On : 13 Feb 2023 5:15 pm
 Operator : MAH
 Sample : CARDNO 5 PPM
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 14 10:10:05 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)

Internal Standards						
1) Dichlorobenzene-d5	6.569	150	27423796	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.186	164	32574678	20.00	ug/mL #	0.00
7) Chrysene-d12	15.252	240	29516143	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.368	172	57829585	24.05	ug/mL	0.00
8) Terphenyl-d14	13.981	244	32041146	24.70	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	98.80%
Target Compounds						
						Qvalue
4) Atrazine	11.673	200	2474258	5.58	ug/mL	97
5) Metolachlor	12.869	162	6072547	5.48	ug/mL	97
6) Chlorpyrifos	12.877	197	1334148	5.38	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00401004.D
 Acq On : 13 Feb 2023 5:42 pm
 Operator : MAH
 Sample : CARDNO 2.5 PPM
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 14 10:09:38 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev (Min)
Internal Standards						
1) Dichlorobenzene-d5	6.568	150	26169753	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.186	164	32040849	20.00	ug/mL #	0.00
7) Chrysene-d12	15.254	240	31983476	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.368	172	57119497	24.89	ug/mL	0.00
8) Terphenyl-d14	13.980	244	33460630	23.80	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	95.20%	
Target Compounds						
						Qvalue
4) Atrazine	11.671	200	892116	2.42	ug/mL	97
5) Metolachlor	12.870	162	2395243	2.53	ug/mL	100
6) Chlorpyrifos	12.875	197	558355	2.51	ug/mL	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00501005.D
 Acq On : 13 Feb 2023 6:10 pm
 Operator : MAH
 Sample : CARDNO 1 PPM
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 14 10:09:09 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Last Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.569	150	25443959	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.186	164	31243188	20.00	ug/mL #	0.00
7) Chrysene-d12	15.253	240	28196868	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.368	172	56839749	25.48	ug/mL	0.00
8) Terphenyl-d14	13.981	244	31598445	25.50	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	102.00%	
Target Compounds						
						Qvalue
4) Atrazine	11.671	200	262359	0.81	ug/mL	98
5) Metolachlor	12.863	162	684362m	0.81	ug/mL	
6) Chlorpyrifos	12.876	197	179223	0.87	ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00601006.D
 Acq On : 13 Feb 2023 6:37 pm
 Operator : MAH
 Sample : CARDNO 0.5 PPM
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Quant Time: Feb 14 10:02:31 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue Feb 14 10:02:27 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.566	150	25715151	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.186	164	31828077	20.00	ug/mL	# 0.00
7) Chrysene-d12	15.253	240	29590116	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.366	172	56673996	25.13	ug/mL	0.00
8) Terphenyl-d14	13.981	244	32051311	24.64	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	98.56%	
Target Compounds						
						Qvalue
4) Atrazine	11.670	200	111354	0.53	ug/mL	97
5) Metolachlor	12.868	162	281249	0.51	ug/mL	98
6) Chlorpyrifos	12.876	197	84773	0.51	ug/mL	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00701007.D
 Acq On : 13 Feb 2023 7:05 pm
 Operator : MAH
 Sample : CARDNO 0.1 PPM
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Quant Time: Feb 14 10:05:42 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue Feb 14 10:05:23 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.568	150	24274032	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.186	164	29918867	20.00	ug/mL #	0.00
7) Chrysene-d12	15.253	240	24454229	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.367	172	53358110	25.07	ug/mL	0.00
8) Terphenyl-d14	13.981	244	28668951	26.67	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	106.68%	
Target Compounds						
						Qvalue
4) Atrazine	11.666	200	14912m	0.07	ug/mL	
5) Metolachlor	12.862	162	41207m	0.08	ug/mL	
6) Chlorpyrifos	12.873	197	10692m	0.07	ug/mL	

{#} = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 00801008.D
 Acq On : 13 Feb 2023 7:32 pm
 Operator : MAH
 Sample : CARDNO 0.05 PPM
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Quant Time: Feb 14 10:04:38 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Qlast Update : Tue Feb 14 10:04:20 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.568	150	23640746	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.185	164	29194264	20.00	ug/mL #	0.00
7) Chrysene-d12	15.251	240	26981339	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.367	172	51163911	24.68	ug/mL	0.00
8) Terphenyl-d14	13.980	244	28248243	23.82	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	95.28%	
Target Compounds						
						Qvalue
4) Atrazine	11.671	200	7749	0.03	ug/mL#	33
5) Metolachlor	12.868	162	21771	0.03	ug/mL#	29
6) Chlorpyrifos	12.872	197	6709m	0.04	ug/mL	

{#} - qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 01101009.D
 Acq On : 13 Feb 2023 8:00 pm
 Operator : MAH
 Sample : BDB0425-BS1
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 14 10:10:58 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Last Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.568	150	19704863	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.186	164	27125372	20.00	ug/mL	# 0.00
7) Chrysene-d12	15.252	240	25133851	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.365	172	33877745	19.61	ug/mL	0.00
8) Terphenyl-d14	13.979	244	22669309	20.52	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	82.08%	
Target Compounds						
4) Atrazine	11.671	200	1721541	4.84	ug/mL	Qvalue 96
5) Metolachlor	12.869	162	4514742	5.00	ug/mL	98
6) Chlorpyrifos	12.876	197	947743	4.69	ug/mL	98

(#) - qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 01201010.D
 Acq On : 13 Feb 2023 8:27 pm
 Operator : MAH
 Sample : BDB0425-BSD1
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 14 10:30:46 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Last Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.568	150	19594220	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.185	164	28247542	20.00	ug/mL	# 0.00
7) Chrysene-d12	15.250	240	24146600	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.365	172	40913257	23.81	ug/mL	0.00
8) Terphenyl-d14	13.978	244	23571827	22.21	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	88.84%	
Target Compounds						
4) Atrazine	11.671	200	2154882	5.59	ug/mL	Qvalue 97
5) Metolachlor	12.869	162	4851789	5.13	ug/mL	97
6) Chlorpyrifos	12.875	197	1002898	4.76	ug/mL	100

(#) - qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 01501017.D
 Acq On : 13 Feb 2023 11:40 pm
 Operator : MAH
 Sample : WDA1107-15
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 16 13:23:25 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Qlast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.568	150	20510354	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.184	164	29840970	20.00	ug/mL #	0.00
7) Chrysene-d12	15.249	240	29578622	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.364	172	40456152	22.50	ug/mL	0.00
8) Terphenyl-d14	13.977	244	26844204	20.65	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	82.60%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 01601018.D
 Acq On : 14 Feb 2023 12:07 am
 Operator : MAH
 Sample : WDA1107-17
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 14 10:37:14 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.565	150	20576211	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.184	164	30127381	20.00	ug/mL	# 0.00
7) Chrysene-d12	15.248	240	26975741	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.364	172	42300261	23.45	ug/mL	0.00
8) Terphenyl-d14	13.976	244	27323827	23.05	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	92.20%	
Target Compounds						
						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 02101011.D
 Acq On : 13 Feb 2023 8:55 pm
 Operator : MAH
 Sample : BDB0426-BS1
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Quant Time: Feb 14 10:11:12 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.569	150	20010859	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.185	164	27483338	20.00	ug/mL	# 0.00
7) Chrysene-d12	15.250	240	26772572	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.365	172	34016557	19.39	ug/mL	0.00
8) Terphenyl-d14	13.977	244	23830482	20.25	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	81.00%	
Target Compounds						
						Qvalue
4) Atrazine	11.671	200	1837835	5.04	ug/mL	96
5) Metolachlor	12.869	162	4830166	5.23	ug/mL	97
6) Chlorpyrifos	12.874	197	1008791	4.90	ug/mL	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 02201012.D
 Acq On : 13 Feb 2023 9:23 pm
 Operator : MAH
 Sample : BDB0426-BSD1
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Quant Time: Feb 14 10:49:14 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Qlast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.569	150	19334070	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.185	164	26754774	20.00	ug/mL	# 0.00
7) Chrysene-d12	15.250	240	24662588	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.365	172	38863188	22.92	ug/mL	0.00
8) Terphenyl-d14	13.977	244	23462023	21.64	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	86.56%	
Target Compounds						
						Qvalue
4) Atrazine	11.670	200	1886461	5.26	ug/mL	97
5) Metolachlor	12.868	162	4609522	5.15	ug/mL	97
6) Chlorpyrifos	12.875	197	916455	4.61	ug/mL	98

{#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 02301015.D
 Acq On : 13 Feb 2023 10:45 pm
 Operator : MAH
 Sample : BDB0426-BLK1
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Quant Time: Feb 14 10:50:03 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Qlast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.570	150	20669399	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.183	164	29107537	20.00	ug/mL #	0.00
7) Chrysene-d12	15.249	240	26036491	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.363	172	49859757	27.51	ug/mL	0.00
8) Terphenyl-d14	13.976	244	28441606	24.85	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	99.40%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 01301014.D
 Acq On : 13 Feb 2023 10:17 pm
 Operator : MAH
 Sample : BDB0425-BLK1
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 14 10:31:21 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.572	150	19214321	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.181	164	28811240	20.00	ug/mL #	0.00
7) Chrysene-d12	15.249	240	28469793	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.363	172	49120454	29.15	ug/mL	0.00
8) Terphenyl-d14	13.976	244	28134761	22.48	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	89.92%	
Target Compounds						
						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 01401016.D
 Acq On : 13 Feb 2023 11:12 pm
 Operator : MAH
 Sample : WDA1107-14
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 14 10:33:06 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.568	150	16348457	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.183	164	20658948	20.00	ug/mL #	0.00
7) Chrysene-d12	15.247	240	18585915	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.364	172	31027126	21.64	ug/mL	0.00
8) Terphenyl-d14	13.975	244	17940627	21.96	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	87.84%
Target Compounds						
						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 02401019.D
 Acq On : 14 Feb 2023 12:35 am
 Operator : MAH
 Sample : WDB0365-012
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Quant Time: Feb 14 10:44:08 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.568	150	19925894	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.184	164	30408534	20.00	ug/mL #	0.00
7) Chrysene-d12	15.250	240	31570085	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.364	172	42353901	24.24	ug/mL	0.00
8) Terphenyl-d14	13.976	244	27324811	19.69	ug/mL	0.00
Spiked Amount	25.000			Recovery	=	78.76%

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 02501020.D
 Acq On : 14 Feb 2023 1:02 am
 Operator : MAH
 Sample : WDB0365-013
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Quant Time: Feb 14 10:46:33 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 Qlast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.567	150	18048840	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.182	164	26557686	20.00	ug/mL #	0.00
7) Chrysene-d12	15.247	240	24754861	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.363	172	36889630	23.31	ug/mL	0.00
8) Terphenyl-d14	13.974	244	23142095	21.27	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	85.08%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 02601021.D
 Acq On : 14 Feb 2023 1:30 am
 Operator : MAH
 Sample : WDB0365-014
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Quant Time: Feb 14 10:46:59 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.566	150	19203035	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.184	164	28448277	20.00	ug/mL #	0.00
7) Chrysene-d12	15.247	240	22342738	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.363	172	37557772	22.31	ug/mL	0.00
8) Terphenyl-d14	13.975	244	22001993	22.40	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	89.60%	

Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2023\FEB\13CARD\
 Data File : 02701022.D
 Acq On : 14 Feb 2023 1:57 am
 Operator : MAH
 Sample : WDB0365-015
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Quant Time: Feb 14 10:47:40 2023
 Quant Method : T:\Data1\MSD4\METHODS\2023\Cardo-0213.M
 Quant Title : EPA 8270D - GC MSD4
 QLast Update : Tue Feb 14 10:08:29 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Dichlorobenzene-d5	6.566	150	21060782	20.00	ug/mL	0.00
3) Acenaphthene-d10	10.184	164	30973321	20.00	ug/mL #	0.00
7) Chrysene-d12	15.249	240	26045396	20.00	ug/mL #	0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.363	172	40974952	22.19	ug/mL	0.00
8) Terphenyl-d14	13.975	244	26237456	22.92	ug/mL	0.00
Spiked Amount	25.000		Recovery	=	91.68%	
Target Compounds						
						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Starting sequence Sun Feb 19 17:50:13 2023

Instrument Name: FID2

Sequence File: T:\Data3\FID2\2020SEQ\221207.S

Comment:

Operator: taz

Data Path: T:\DATA3\FID2\2023DATA\02FEB\19\

Method Path: T:\DATA3\FID2\AQUIMETH\

Line	Type	Vial	DataFile	Method	Sample Name

This computer is now swap bound.					
1)	Blank	1	00101001	2016HCID	rin
This computer is now swap bound.					
2)	Calibration	2	00201002	2016HCID	500ppm Diesel
This computer is now swap bound.					
3)	Calibration	3	00301003	2016HCID	1000ppm Diesel
This computer is now swap bound.					
4)	Calibration	4	00401004	2016HCID	2000ppm Oil and Gas
This computer is now swap bound.					
5)	Blank	5	00501005	2016HCID	BDB0569-BLK1
This computer is now swap bound.					
6)	Spike	6	00601006	2016HCID	BDB0569-BS1
This computer is now swap bound.					
7)	Spike	7	00701007	2016HCID	BDB0569-BSD1
This computer is now swap bound.					
8)	Sample	8	00801008	2016HCID	WDB0365-01
This computer is now swap bound.					
9)	Sample	9	00901009	2016HCID	WDB0365-02
This computer is now swap bound.					
10)	Sample	10	01001010	2016HCID	WDB0365-03
This computer is now swap bound.					
11)	Sample	11	01101011	2016HCID	WDB0365-04
This computer is now swap bound.					
12)	Sample	12	01201012	2016HCID	WDB0365-05
This computer is now swap bound.					
13)	Sample	13	01301013	2016HCID	WDB0365-06
This computer is now swap bound.					
14)	Sample	14	01401014	2016HCID	WDB0365-07
This computer is now swap bound.					
15)	Calibration	3	00301015	2016HCID	1000ppm Diesel
This computer is now swap bound.					
16)	Calibration	4	00401016	2016HCID	2000ppm Oil and Gas
This computer is now swap bound.					
17)	Sample	15	01501017	2016HCID	WDB0365-08
This computer is now swap bound.					
18)	Sample	16	01601018	2016HCID	WDB0365-09
This computer is now swap bound.					
19)	Sample	17	01701019	2016HCID	WDB0365-10
This computer is now swap bound.					

20) Sample 18 01801020 2016HCID WDB0365-11
 This computer is now swap bound.
 21) Sample 19 01901021 2016HCID WDB0365-12
 This computer is now swap bound.
 22) Sample 20 02001022 2016HCID WDB0365-13
 This computer is now swap bound.
 23) Sample 21 02101023 2016HCID WDB0365-14
 This computer is now swap bound.
 24) Spike 22 02201024 2016HCID BDB0569-MS1
 This computer is now swap bound.
 25) Spike 23 02301025 2016HCID BDB0569-MSD1
 This computer is now swap bound.
 26) Sample 24 02401026 2016HCID WDB0365-15
 This computer is now swap bound.
 27) Calibration 3 00301027 2016HCID 1000ppm Diesel
 This computer is now swap bound.
 28) Calibration 4 00401028 2016HCID 2000ppm Oil and Gas
 This computer is now swap bound.
 29) Sample 25 02501029 2016HCID WDB0485-01
 This computer is now swap bound.
 30) Sample 26 02601030 2016HCID WDB0485-02
 This computer is now swap bound.
 31) Sample 27 02701031 2016HCID WDB0485-03
 This computer is now swap bound.
 32) Sample 28 02801032 2016HCID WDB0485-04
 This computer is now swap bound.
 33) Calibration 3 00301033 2016HCID 1000ppm Diesel
 This computer is now swap bound.
 34) Calibration 4 00401034 2016HCID 2000ppm Oil and Gas

Sequence completed Mon Feb 20 13:22:25 2023

T:\DATA3\FID2\2023DATA\02FEB\19\2023 Feb 19 1750 Quality Log.LOG
 T:\DATA3\FID2\2023DATA\02FEB\19\2023 Feb 19 1750 Sequence Log .LOG



QC Checklist for TPH-D & HCID-NWTPH-D & NWTPH-HCID-EPA 8015D

Analysis Date: 2/19/23

<input checked="" type="checkbox"/>	QC Parameter	Acceptance Criteria	Frequency	Notes
<input checked="" type="checkbox"/>	Initial Calibration	±15%	At least 5 points	
<input checked="" type="checkbox"/>	Surrogate Recovery	50-150%	All samples	
<input checked="" type="checkbox"/>	ICV/QCS	±15%	Each instrument run	
<input checked="" type="checkbox"/>	Blanks	<1/2 MRL	1 per batch	
<input checked="" type="checkbox"/>	CCV	85-115%	Initial, every 12 hours of runtime, and end of run	
<input checked="" type="checkbox"/>	LFB	70-130%	1:10 field samples	
<input checked="" type="checkbox"/>	MS	70-130%	1 per batch, when sample is available	
<input checked="" type="checkbox"/>	Duplicate (LFB/MSD/SD)	RPD ≤ 20%	1 per batch	
<input checked="" type="checkbox"/>	Cal Prep Form Present			
<input checked="" type="checkbox"/>	pH	pH < 2	All samples	
	Dilutions Noted?			

Comments:

Analyst: Jazy

Checklist Completed Date: 2/21/23

Reviewed By: [Signature]

Date: 2/21/23



Anatek Labs, Inc

1282 Alturas Drive
Moscow, ID 83843

Calibration Standard Preparation Form

TPHDx/HCID

	Diesel	Oil	Gasoline	Kerosene
Calibration Stock Standard Number:	2203081	2203094	2203095	M429-02
Calibration Stock Standard Concentration:	50 mg/mL	20 mg/mL	20 mg/mL	20 mg/mL
Calibration Stock Standard Expiration Date:	07/31/2028	06/30/2028	05/31/2028	7/2023

Dilution Template

Desired Concentration	Stock Concentration	μ l Standard Added	Final Volume (mL)	Units of Concentration
Diesel Prepared: 9/15/2022 MeCl Lot Used: 2202804				
50	50,000	1	1.0	ppm
250	50,000	5	1.0	ppm
500	50,000	10	1.0	ppm
1000	50,000	20	1.0	ppm
2500	50,000	50	1.0	ppm
Oil Prepared: 9/15/2022 MeCl Lot Used: 2202804				
100	20,000	5	1.0	ppm
500	20,000	25	1.0	ppm
1000	20,000	50	1.0	ppm
2000	20,000	100	1.0	ppm
4000	20,000	200	1.0	ppm
Gasoline Prepared: 9/15/2022 MeCl Lot Used: 2202804				
100	20,000	5	1.0	ppm
500	20,000	25	1.0	ppm
1000	20,000	50	1.0	ppm
2000	20,000	100	1.0	ppm
4000	20,000	200	1.0	ppm
Kerosene Prepared: MeCl Lot Used:				
50	20,000	2.5	1.0	ppm
250	20,000	12.5	1.0	ppm
500	20,000	25	1.0	ppm
1000	20,000	50	1.0	ppm
2500	20,000	125	1.0	ppm

NOTE: Hexacosane SUR (2202969; 5000 ppm) and Pentacosane IS (2202970; 5000 ppm) were added to all calibration standards at 10 μ L/ml or 50 ppm

QC Sample Preparation Template

Matrix	Desired Concentration	Stock Concentration	μ L Standard Added	Final Volume (mL)	Units of Concentration
Water	0.5	50,000	10 μ L /1L	1	ppm
Solids	100	50,000	10 μ L /5g sample	1	ppm

QC Type: LFB

Matrix	Desired Concentration	Stock Concentration	μ L Standard Added	Final Volume (mL)	Units of Concentration
Water	0.5	50,000	10 μ L /1L	1	ppm
Solids	100	50,000	10 μ L /5g sample	1	ppm

Analyst Initials: Janz

Form CD05.02 - Eff 14 Nov 2016

Page 1 of 1

PREPARATION BENCH SHEET

Organics

BDB0569

Matrix: Water

Prepared using: SVOC - W TPH-Dx

Analyses W HClD Low Level		Spiking Solution(s) 2203160				Surrogate Solution(s) 2202969 Hexacosane 5000PPM			
Lab Number	Sample and Source ID	Pre-Wt	Post-Wt	Initial (mL)	Prepared - By	Final (mL)	ul Spike	ul Surrogate	Extraction Comments
BDB0569-BLK1	Blank				2/17/23 10:48 TAZ	1		10	
BDB0569-BS1	LCS				2/17/23 10:48 TAZ	1		10	
BDB0569-MS1	Matrix Spike [WDB0365-11]				2/17/23 10:48 TAZ	1		10	
BDB0569-MS2	Matrix Spike [WDB0365-14]			569	2/17/23 10:48 TAZ	1		10	
WDB0365-01	DW-2			989	2/17/23 10:48 TAZ	1		10	
WDB0365-02	DW-3			1040	2/17/23 10:48 TAZ	1		10	
WDB0365-03	D-2			891	2/17/23 10:48 TAZ	1		10	
WDB0365-04	D-3			1026	2/17/23 10:48 TAZ	1		10	
WDB0365-05	D-4			1035	2/17/23 10:48 TAZ	1		10	
WDB0365-06	D-5			1013	2/17/23 10:48 TAZ	1		10	
WDB0365-07	DW-1/WW-1			964	2/17/23 10:48 TAZ	1		10	
WDB0365-08	WW-2			1074	2/17/23 10:48 TAZ	1		10	
WDB0365-09	U-3/WW-4			1038	2/17/23 10:48 TAZ	1		10	
WDB0365-10	U-2/WW-5 WET			1016	2/17/23 10:48 TAZ	1		10	
WDB0365-11	WW-6			1044	2/17/23 10:48 TAZ	1		10	
WDB0365-12	WW-3			1026	2/17/23 10:48 TAZ	1		10	
WDB0365-13	E-2			827	2/17/23 10:48 TAZ	1		10	
WDB0365-14	E-1			1053	2/17/23 10:48 TAZ	1		10	
WDB0365-15	E-1 DUP			1034	2/17/23 10:48 TAZ	1		10	
WDB0485-01	D-6			991	2/17/23 10:48 TAZ	1		10	
WDB0485-02	D-7			952	2/17/23 10:48 TAZ	1		10	
WDB0485-03	D-8			996	2/17/23 10:48 TAZ	1		10	
WDB0485-04	U-1/WW-7			1000	2/17/23 10:48 TAZ	1		10	

* split 468

Spiking Performed By Jerry Date 2/24/23

PREPARATION BENCH SHEET

Organics

BDB0569

(Continued)

Matrix: Water

Analyses
W HClD Low Level

Spiking Solution(s)

Prepared using: SVOC - W TPH-DX

Surrogate Solution(s)
2202969 Hexacosane 5000PPM

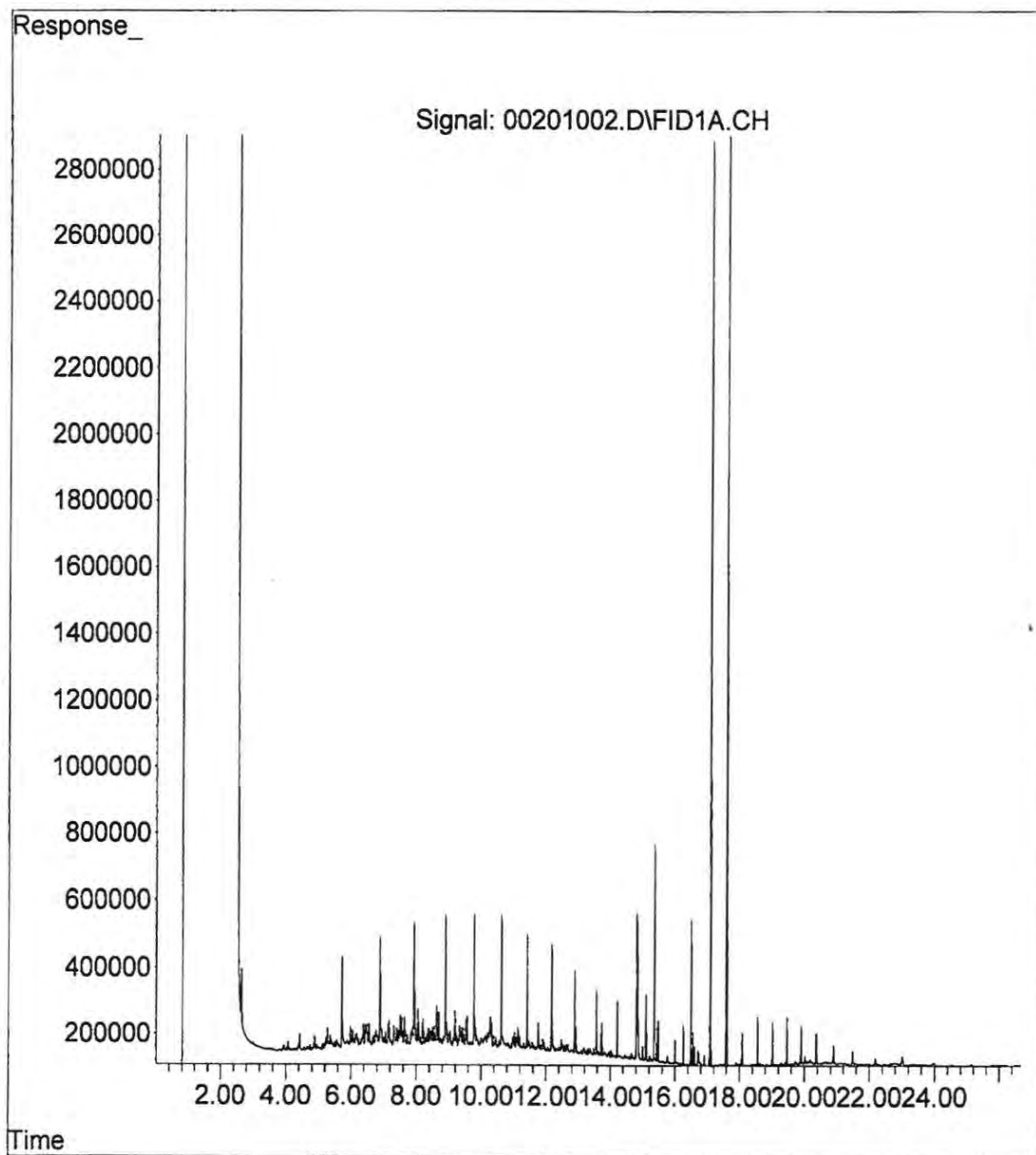
Run Date: _____ Support Equipment: _____

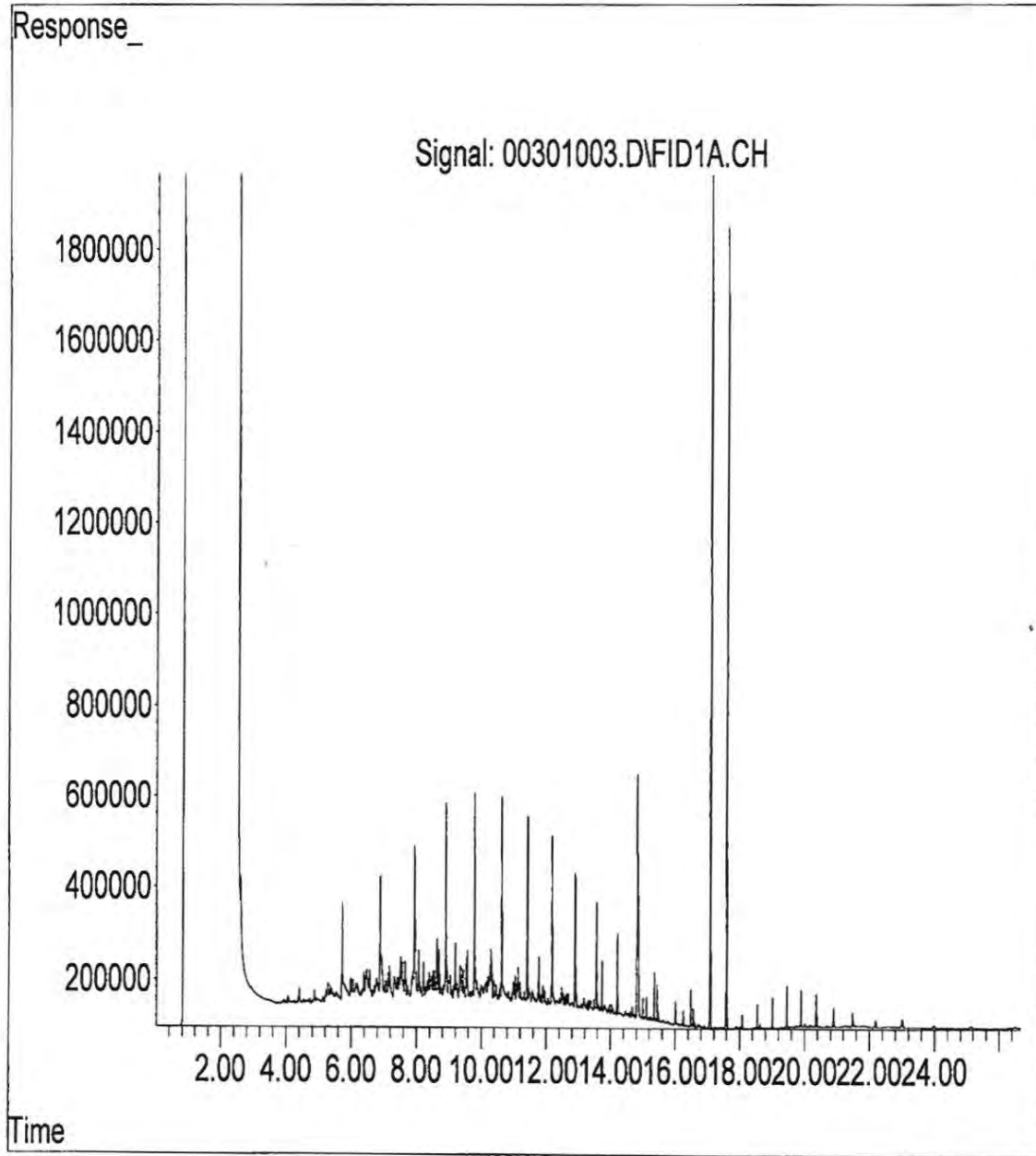
Reagents	Standard	Description	LotNum
----------	----------	-------------	--------

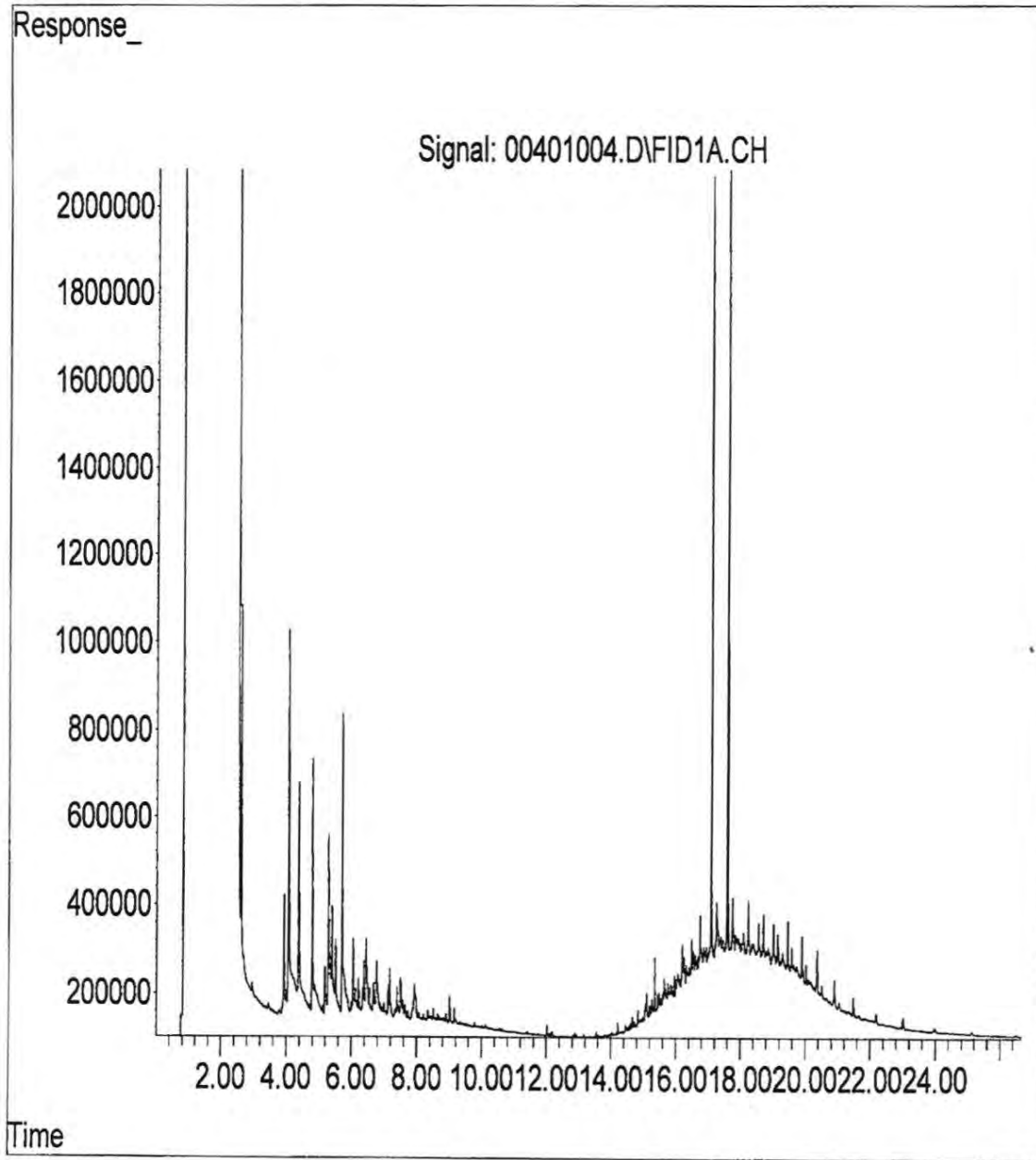
Pentacosane 2202970
MeCl₂ 2300161
H₂SO₄ 2204320

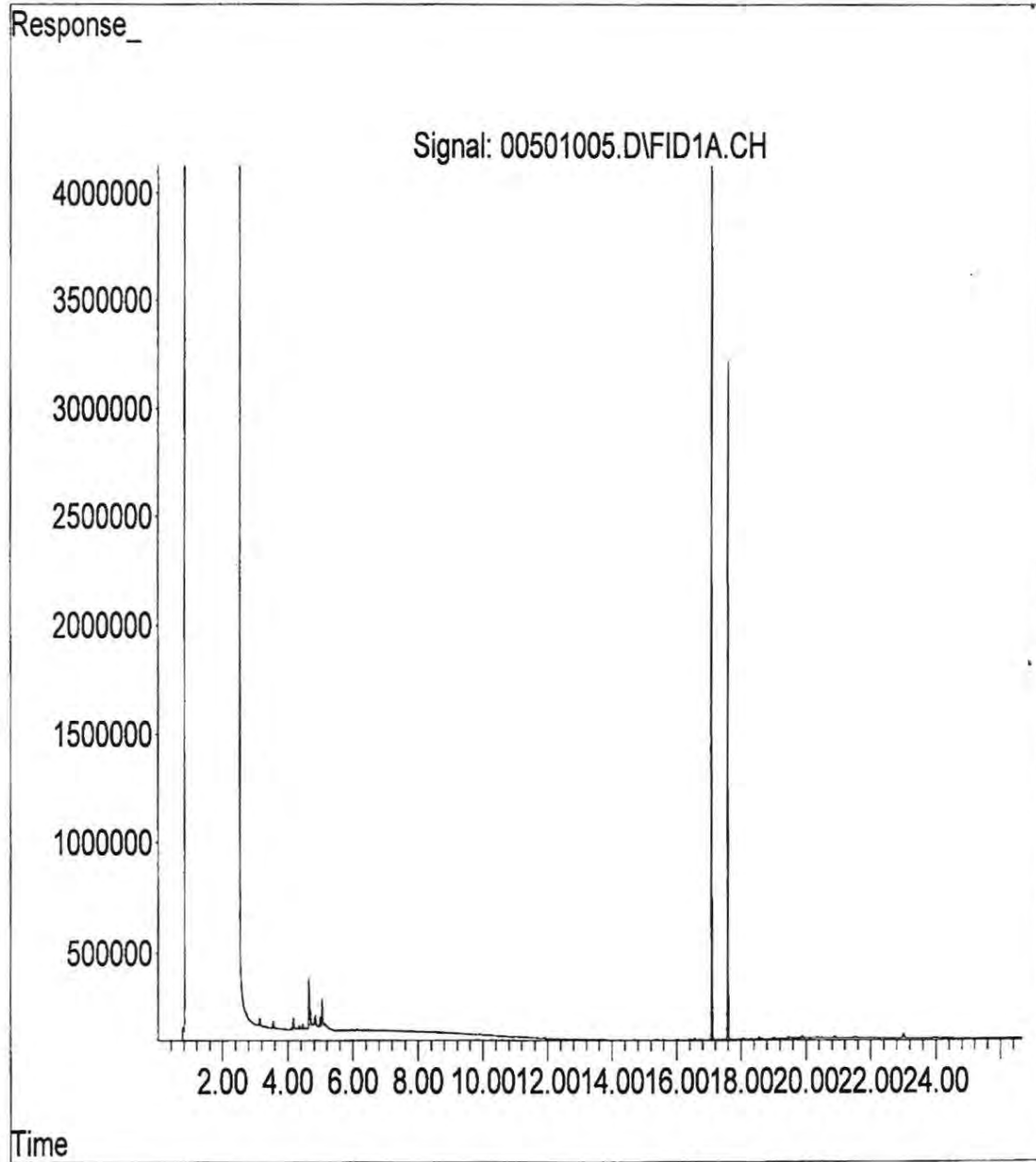
Bal-04

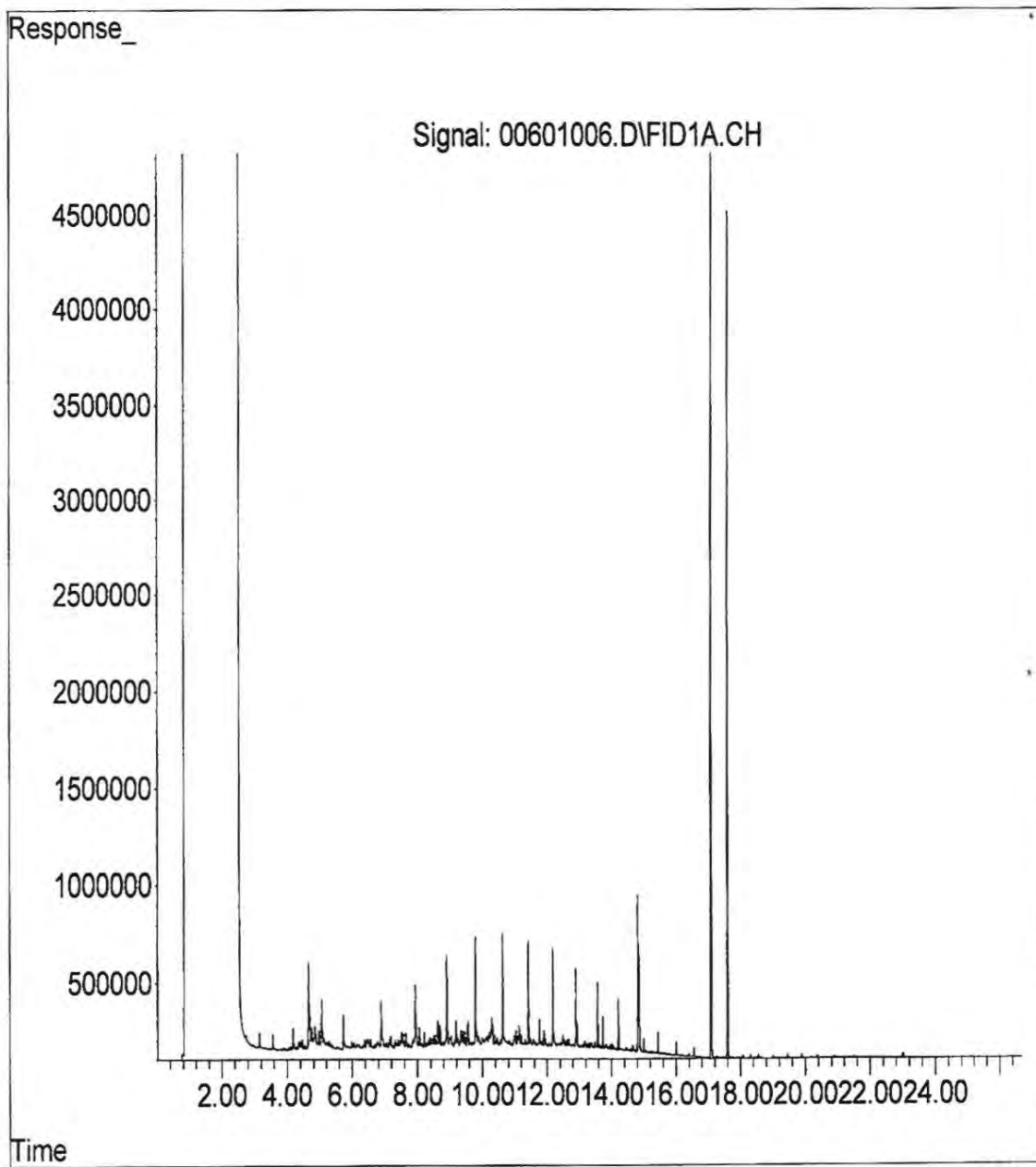
Spiking Performed By _____ Date _____









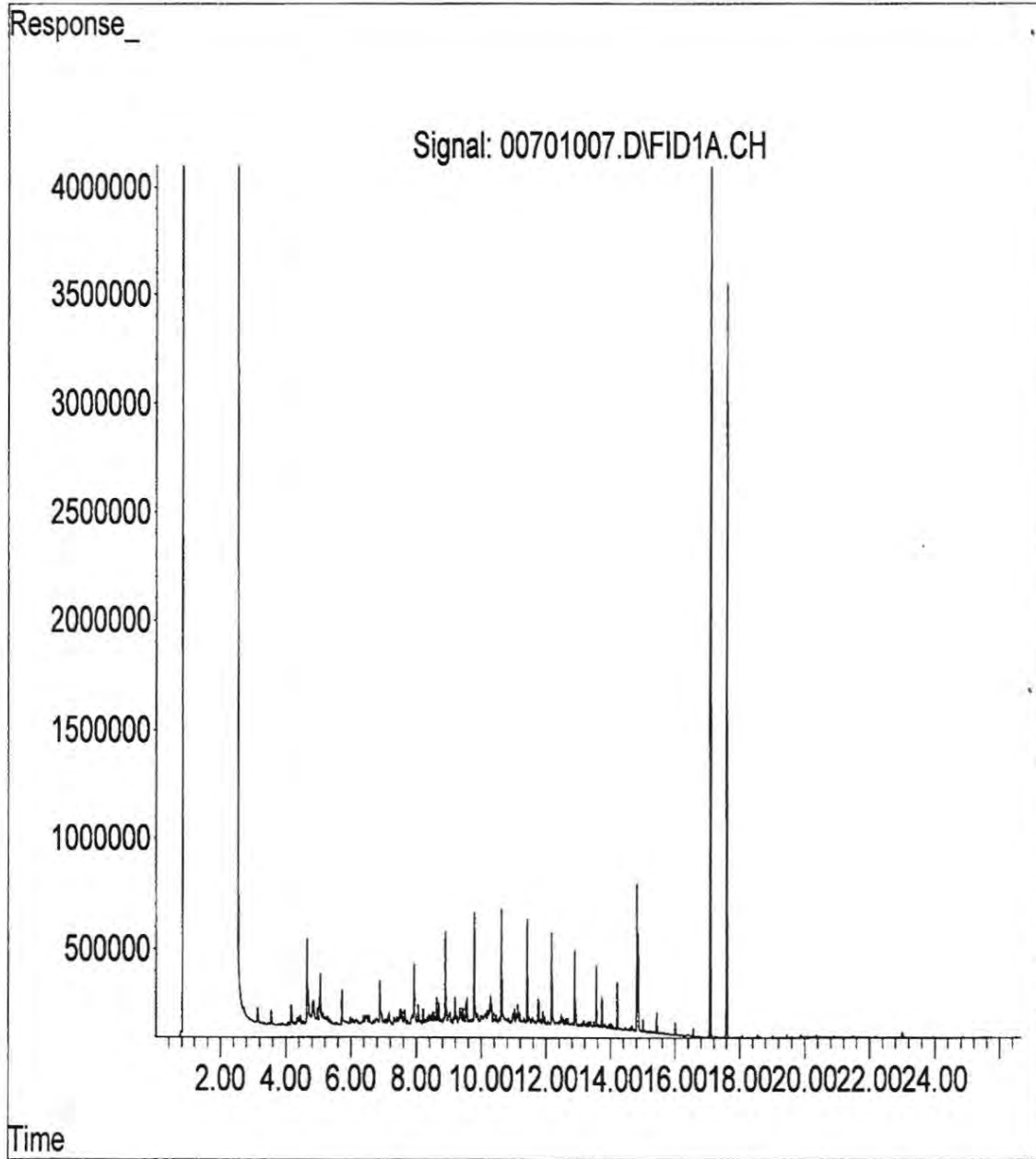


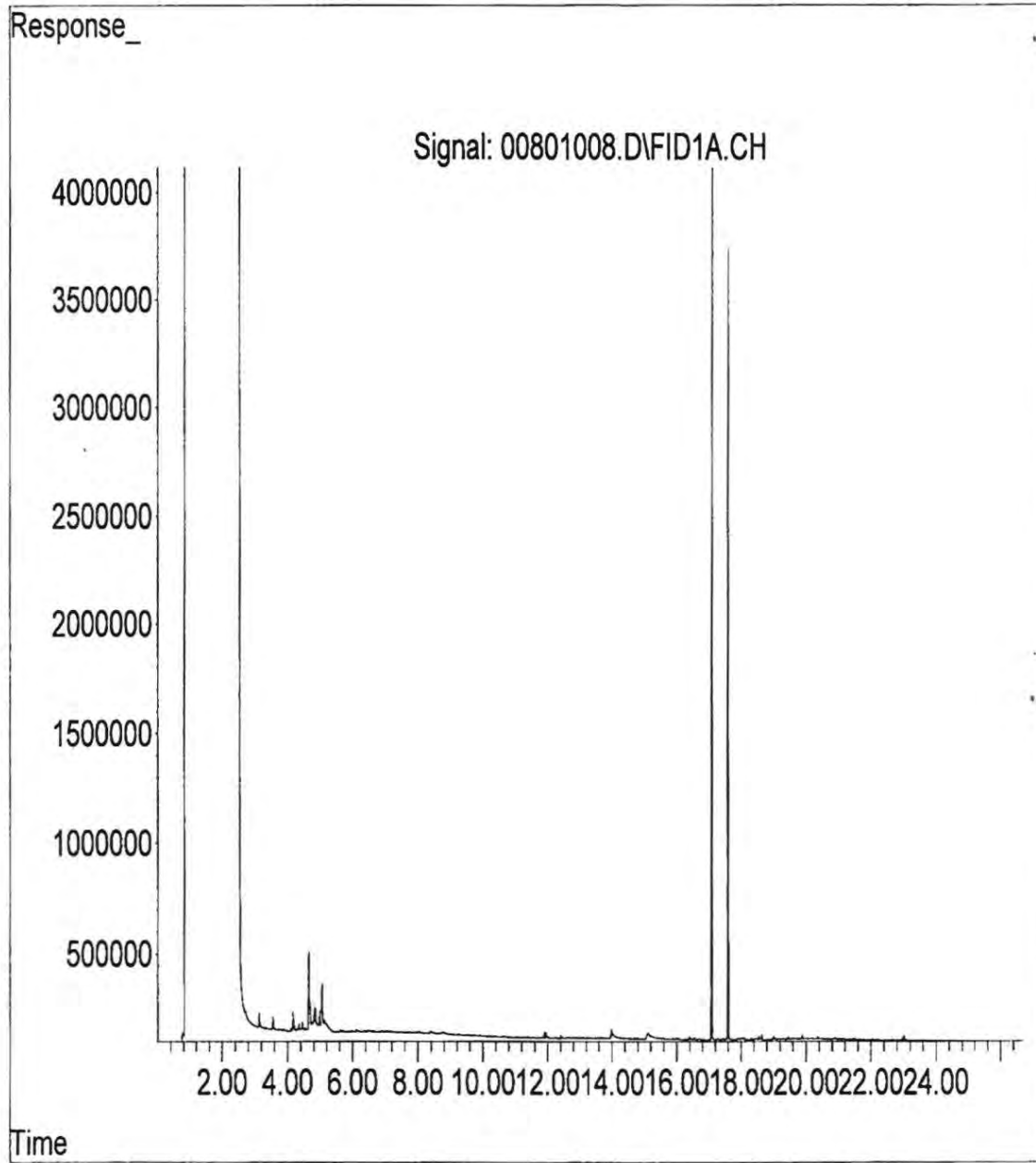
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 Data File: 00701007.D
 Signal(s): \FID1A.CH
 Acq On: 19 Feb 2023 21:19 pm
 Operator: taz
 Sample: BDB0569-BSD1
 Misc: 0

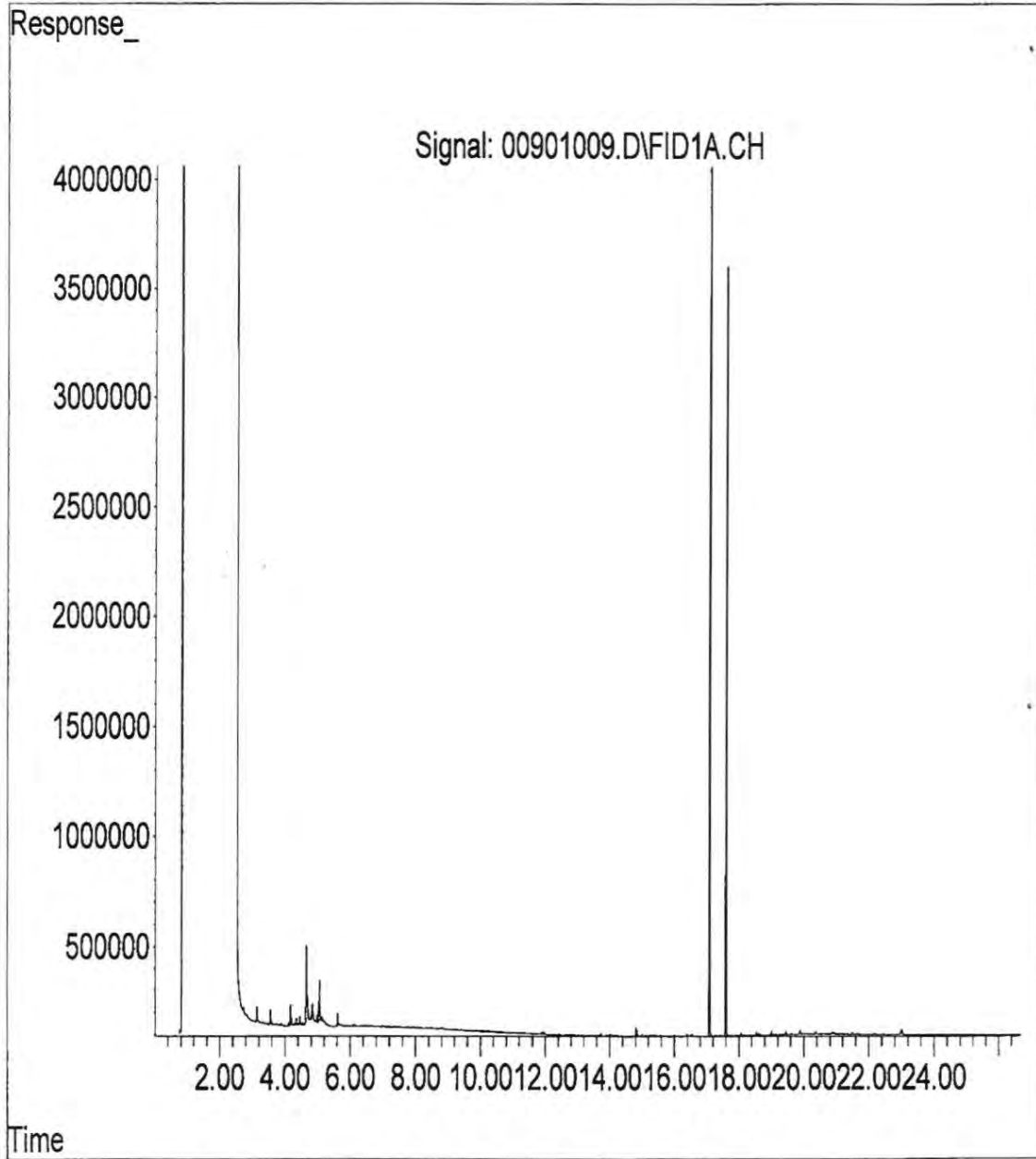
Vial: 7 Sample Multiplier: 1

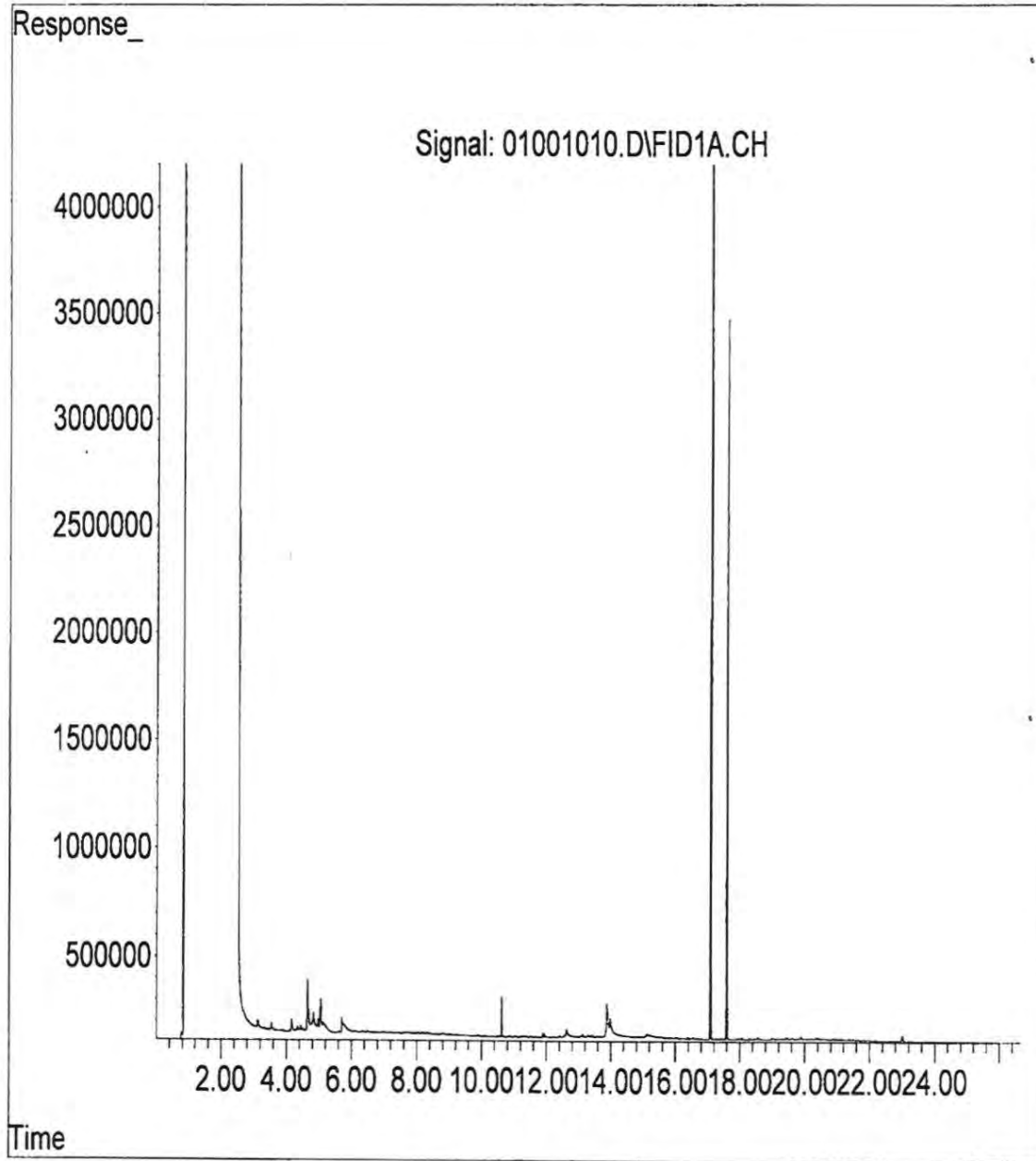
Quant Time: Sun Feb 19 21:46:43 2023
 Quant Method: T:\Data3\FID2\2021METHODS\220916THPDx.M
 Quant Title: NWTPH-HCID-EPA 8015B
 QLast Update: Fri Dec 23 10:08:12 2022
 Integrator: MSD ChemStation E.02.02.1431 Copyright © 1989-2011 Agilent Technologies, Inc.

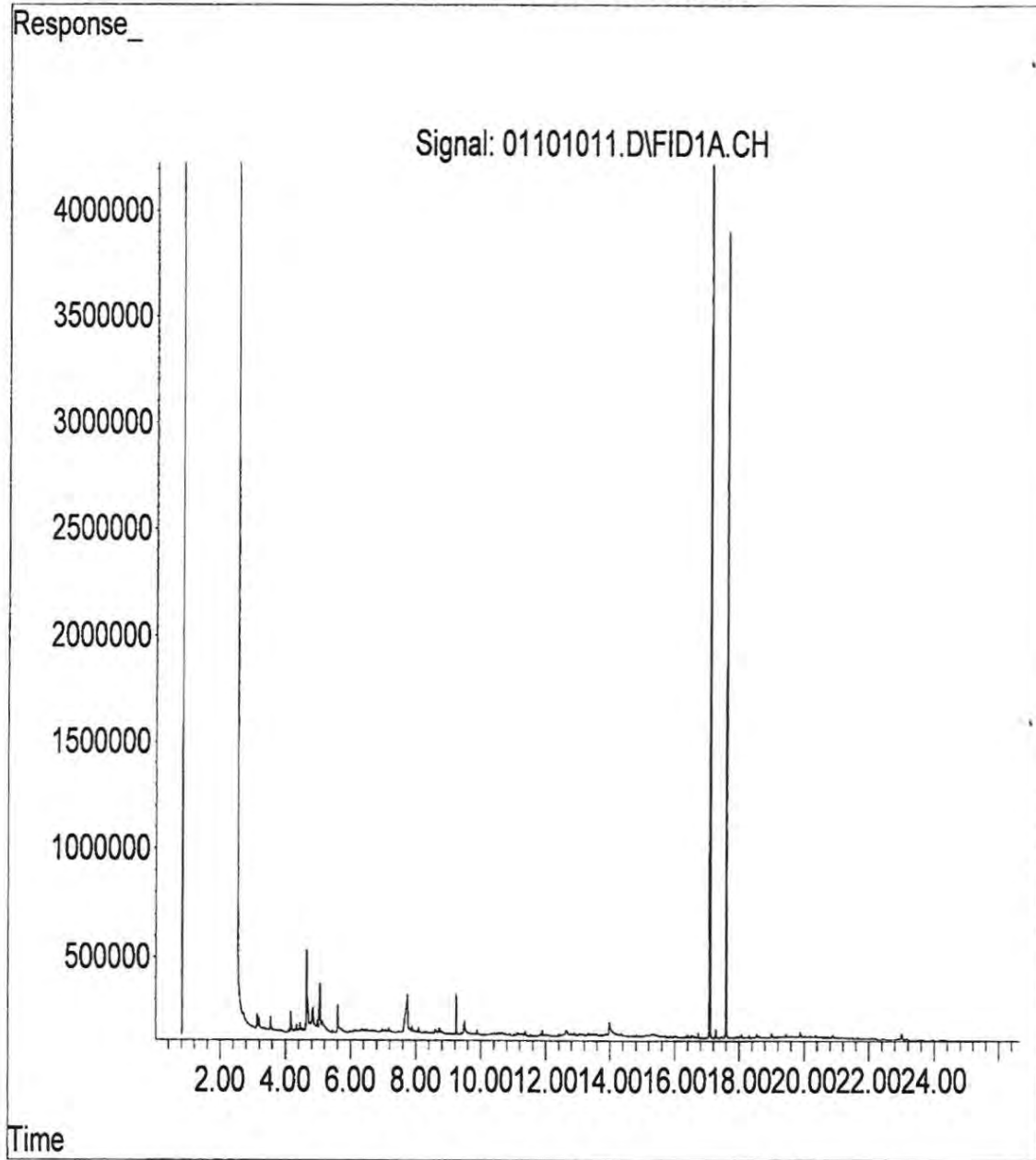
Compund	R.T.	Response	Conc
Internal Standards			
1) Pentacosane	17.10	52870700	50.00 ppm
System Monitoring Compunds			
6) Hexacosane	17.61	47331300	45.61 ppm
Target Compounds			
2) TPH Gasoline	0.00	0	0.000 ppm
4) TPH Diesel	11.13	428031000	500.112 ppm
5) TPH Waste Oil	0.00	0	0.000 ppm
3) TPH Kerosene	0.00	0	0.000 ppm

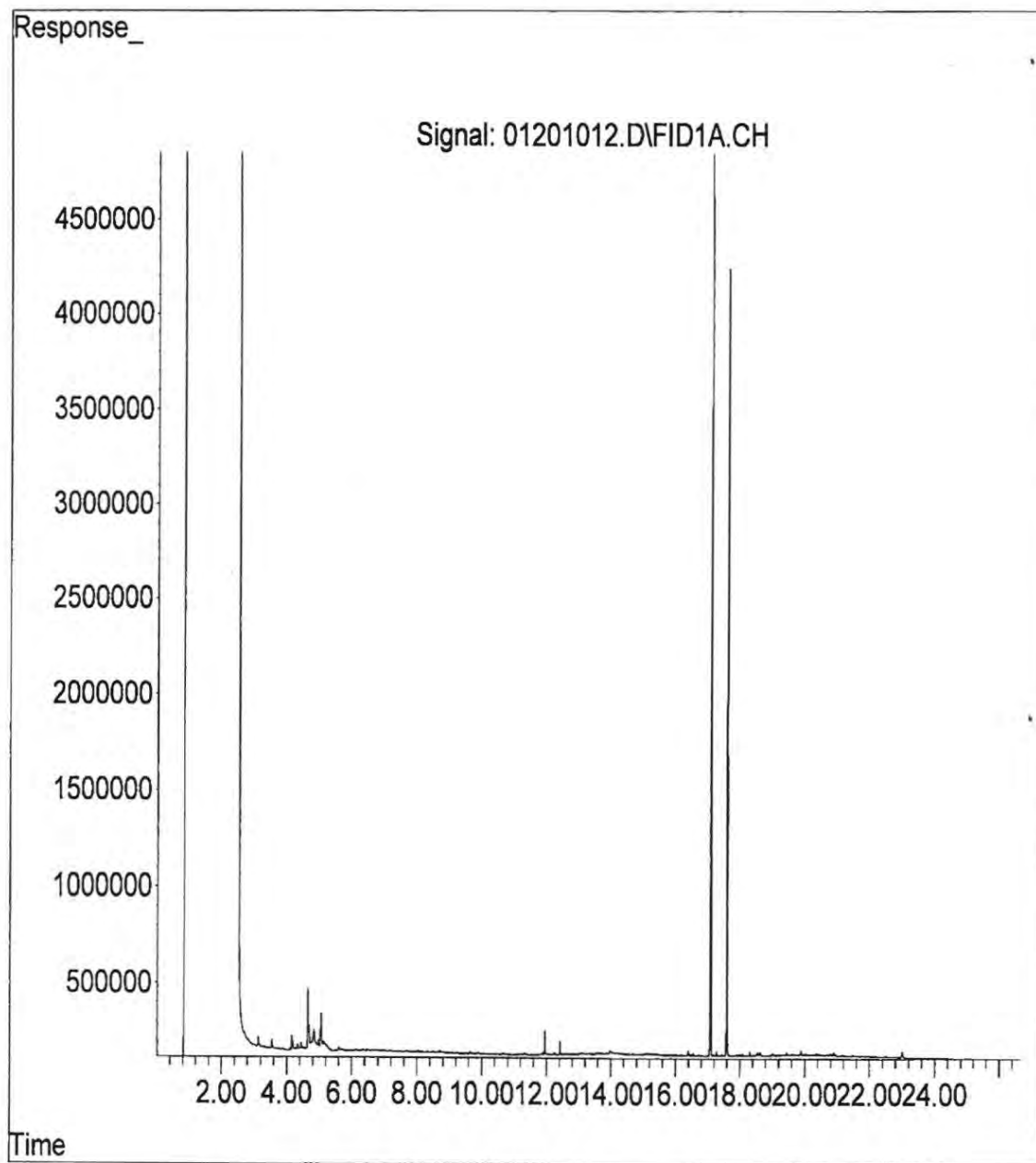


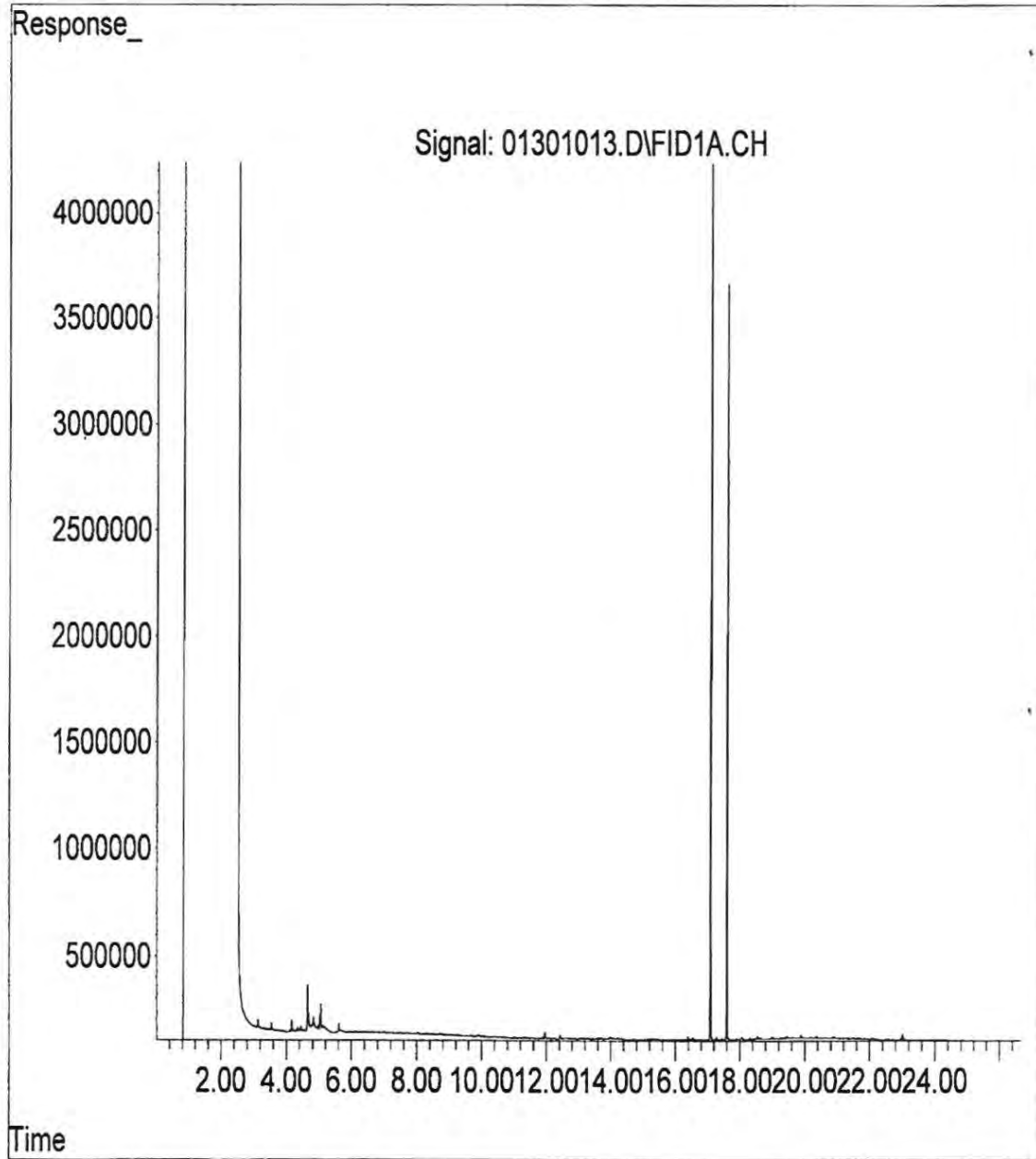


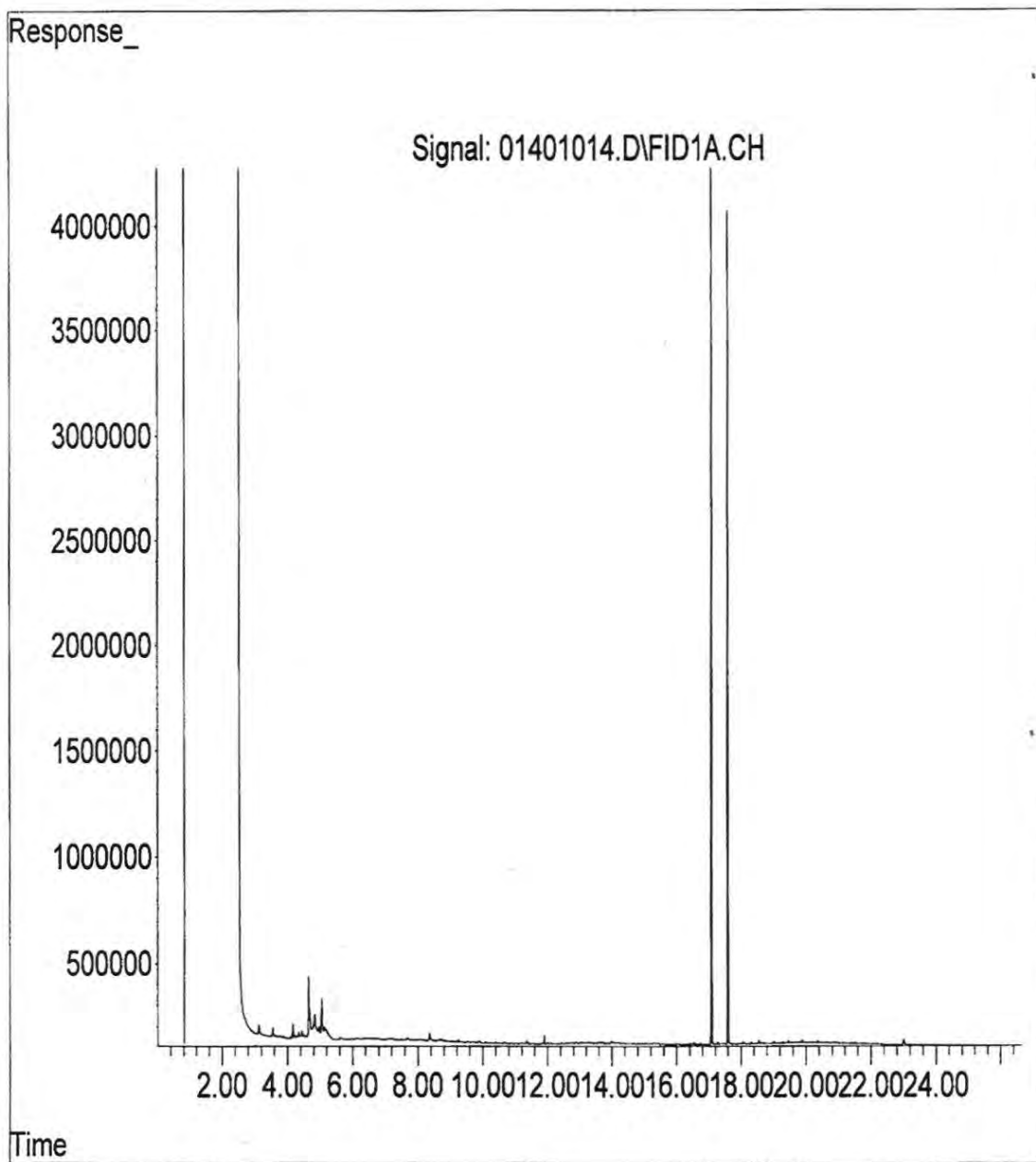


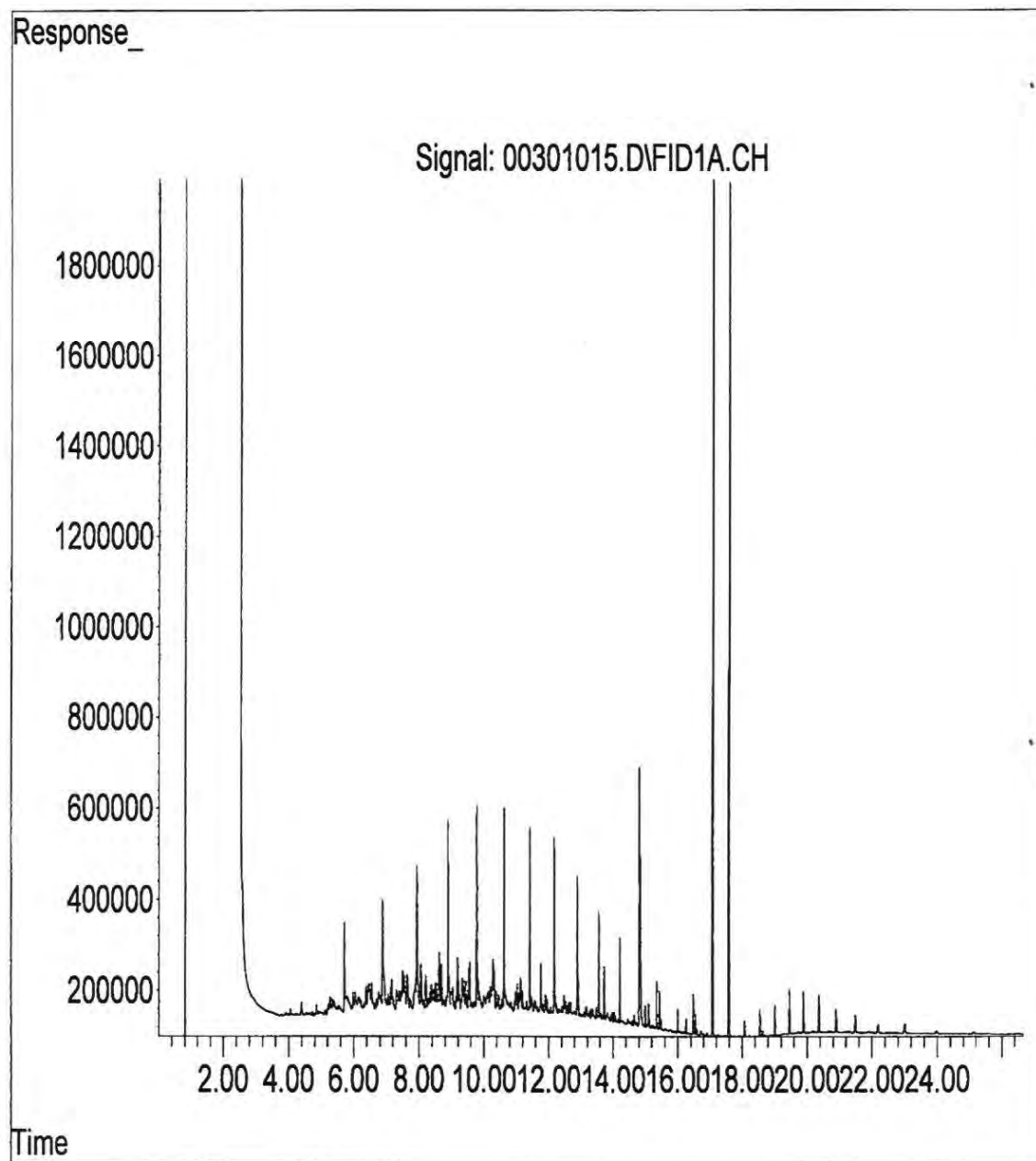


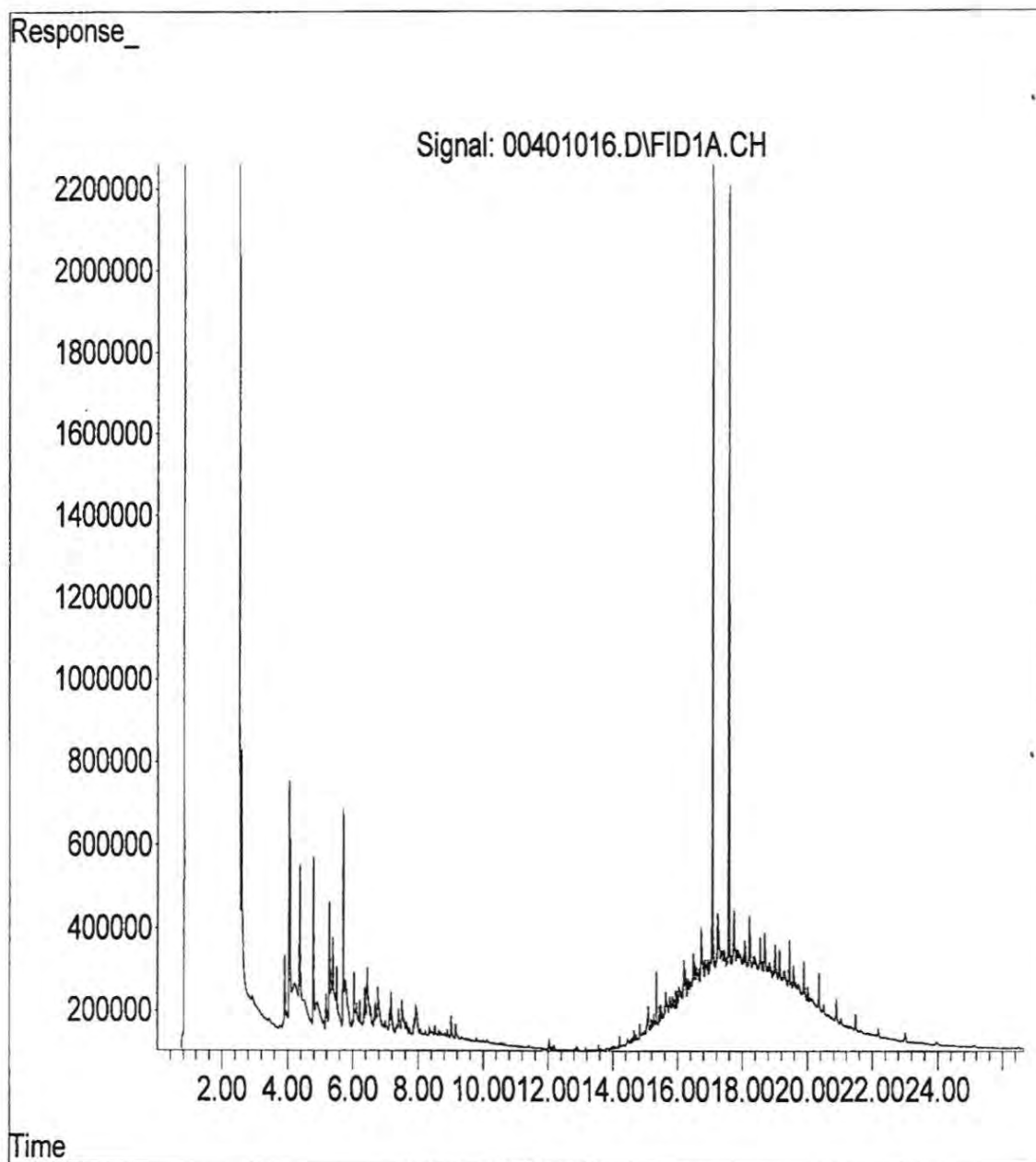


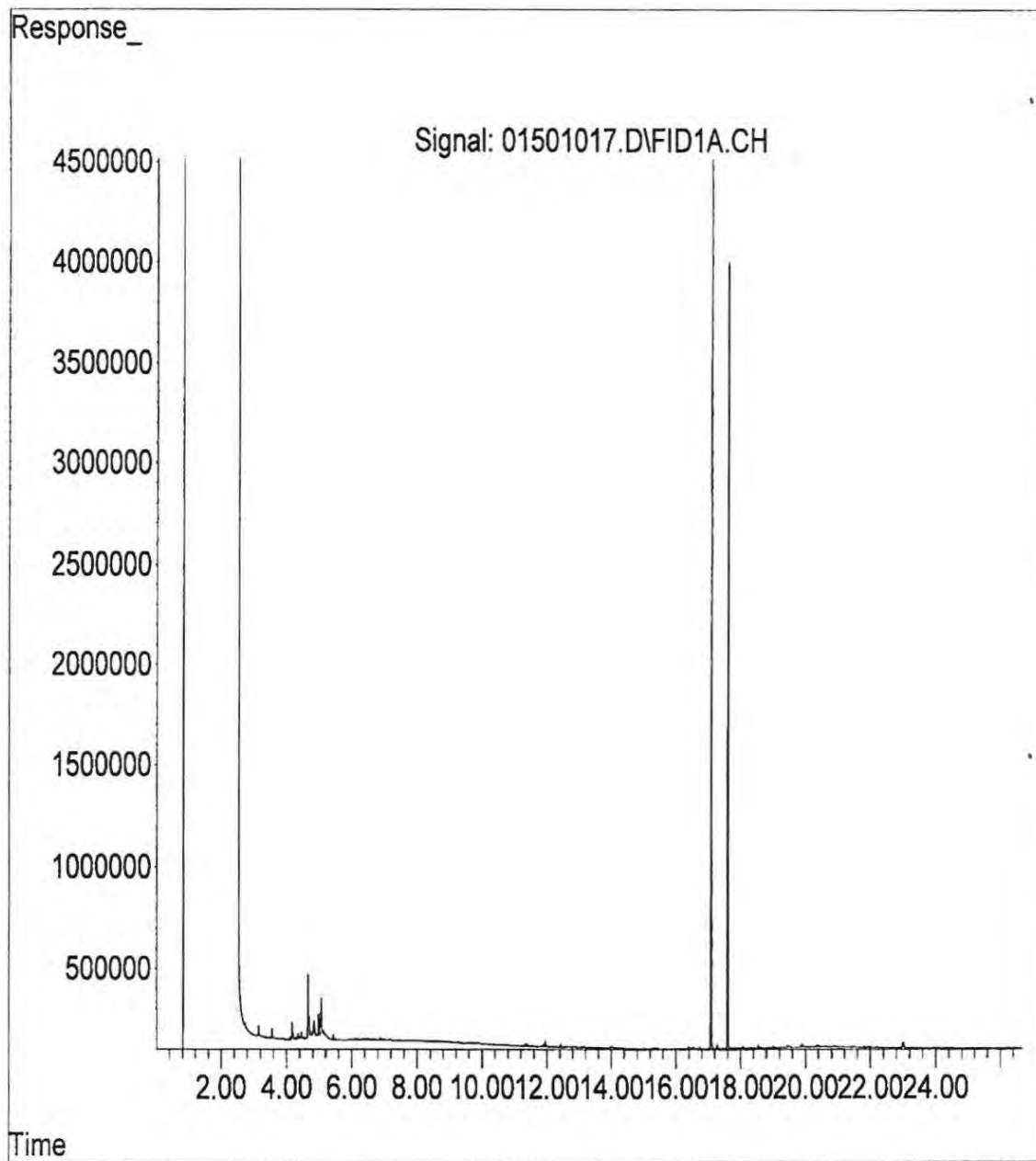


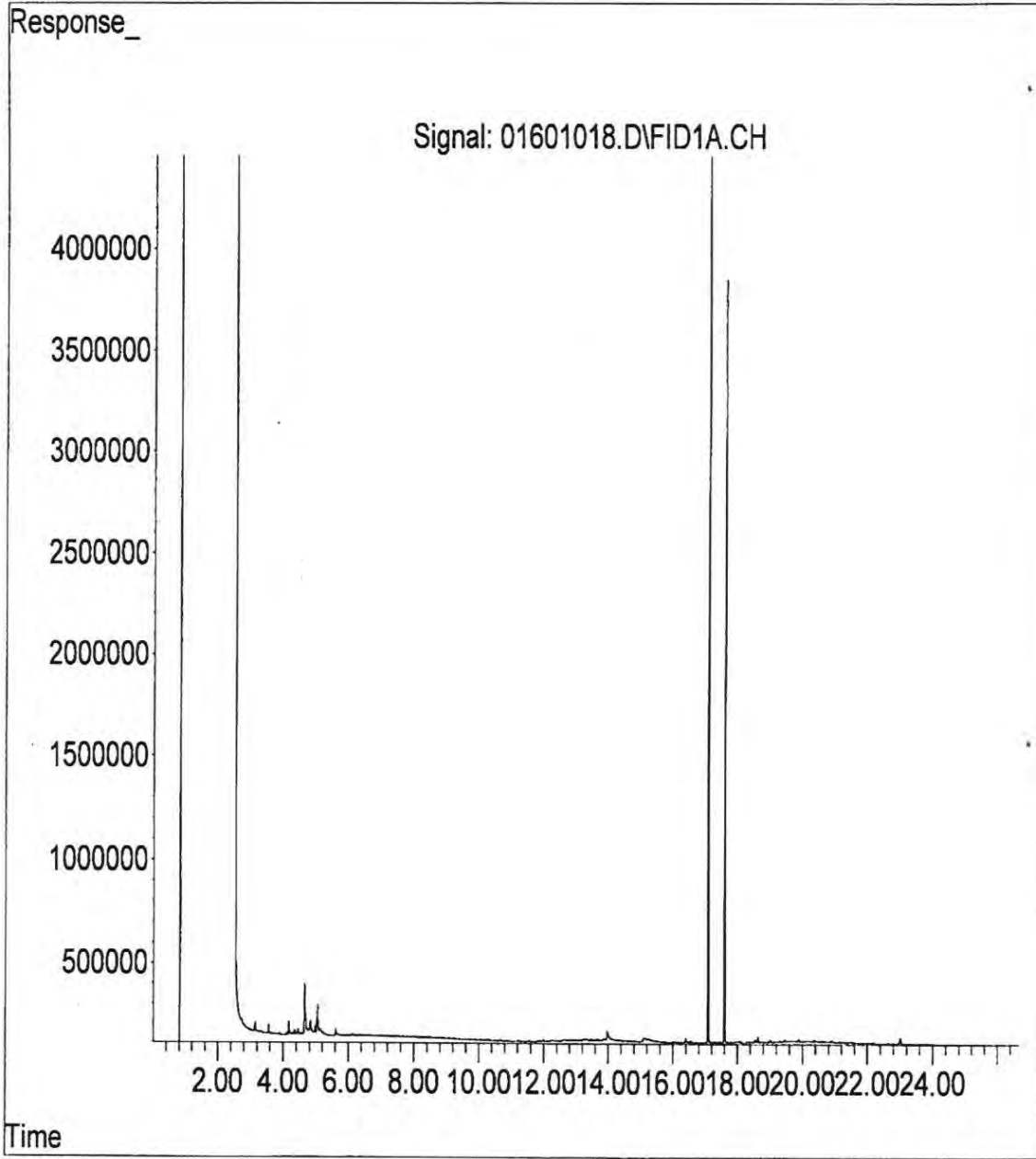


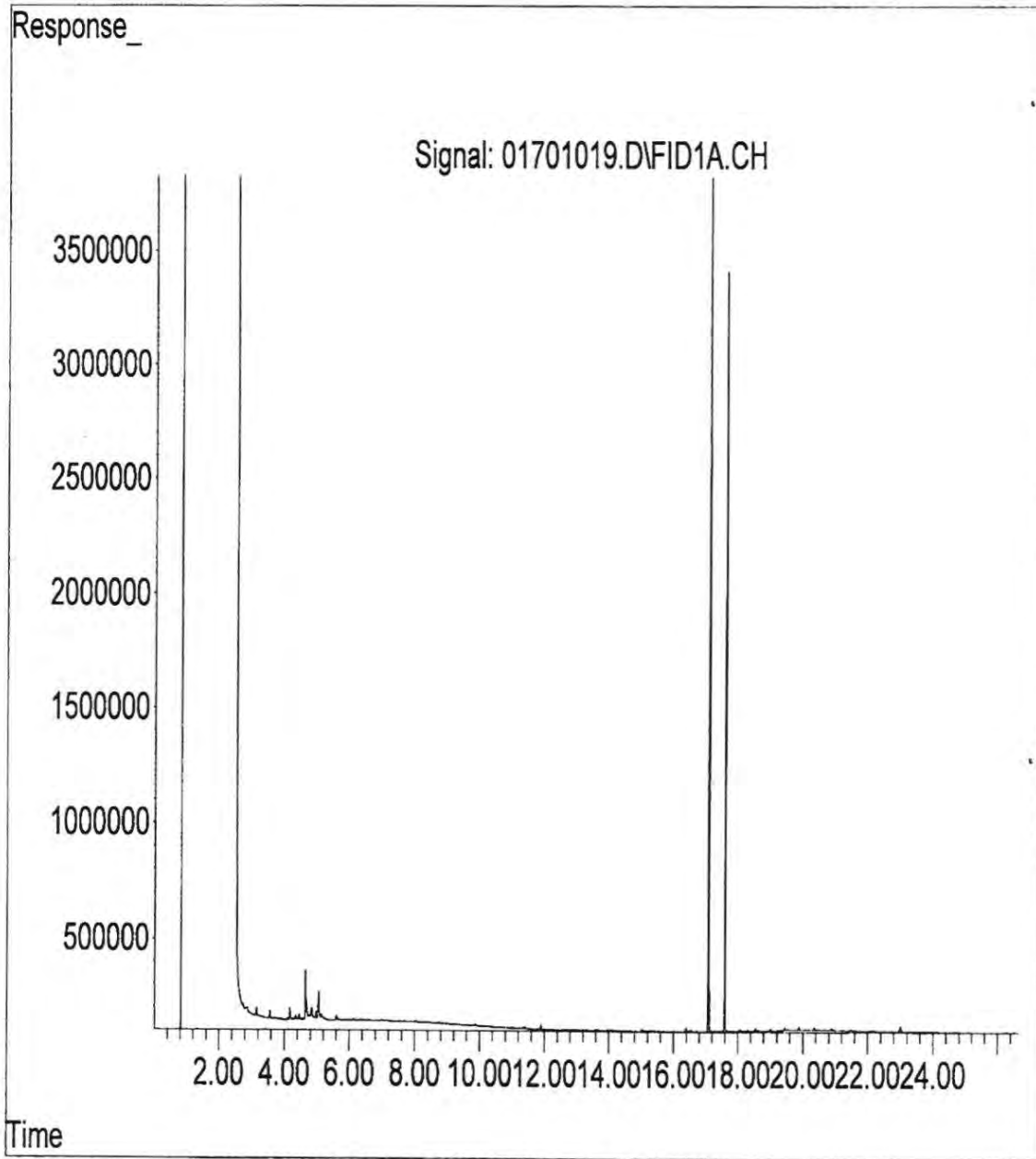


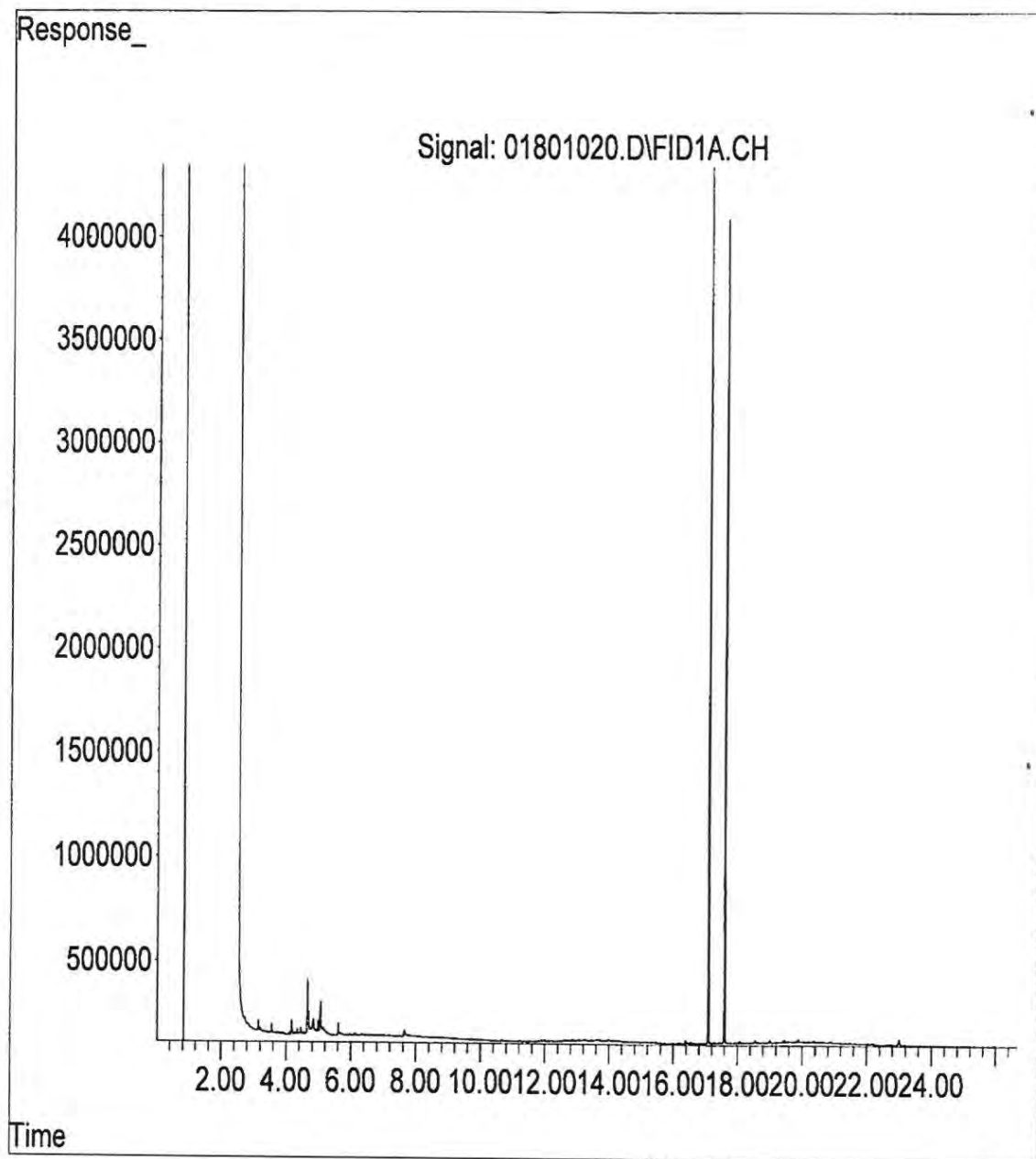


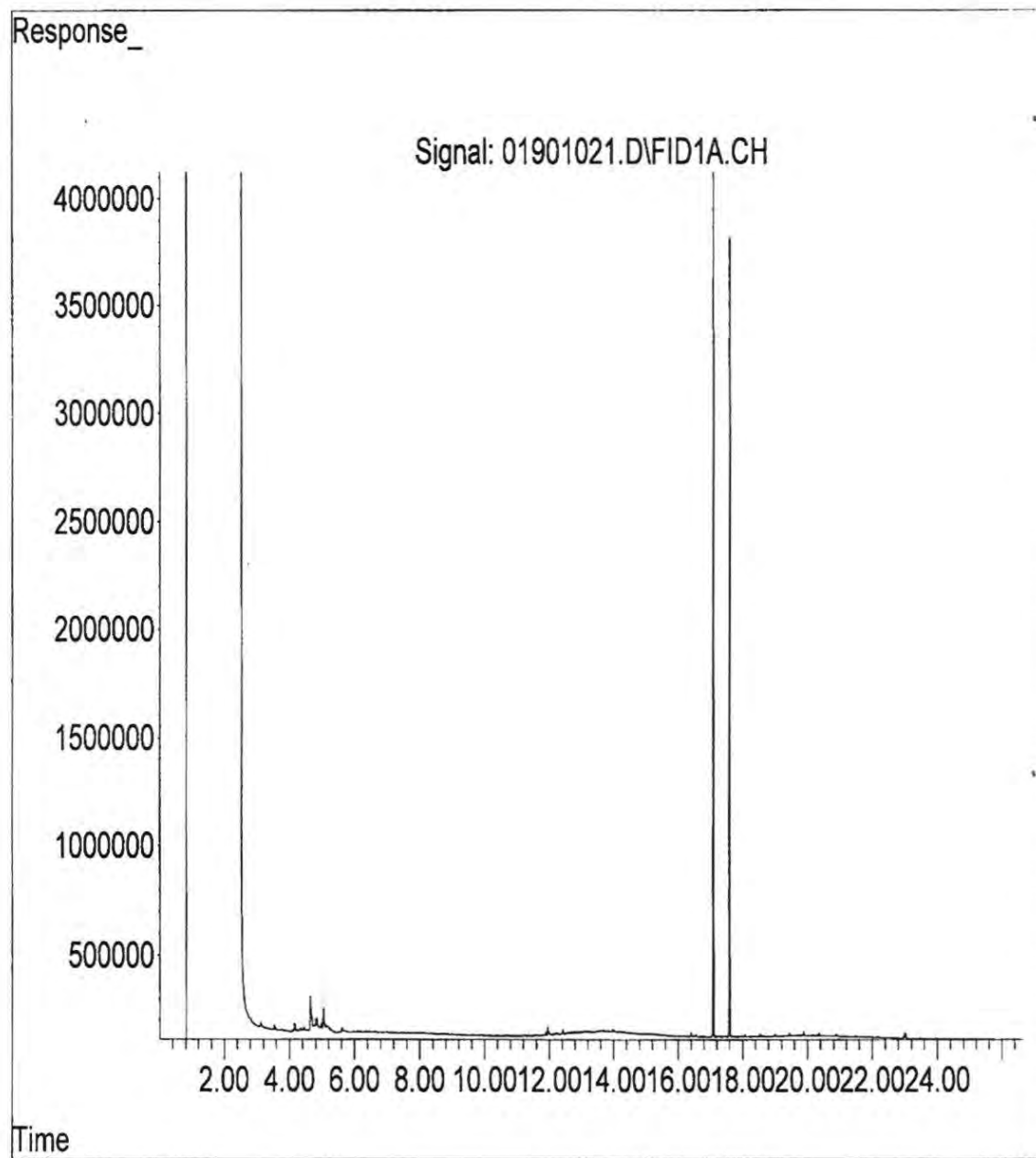


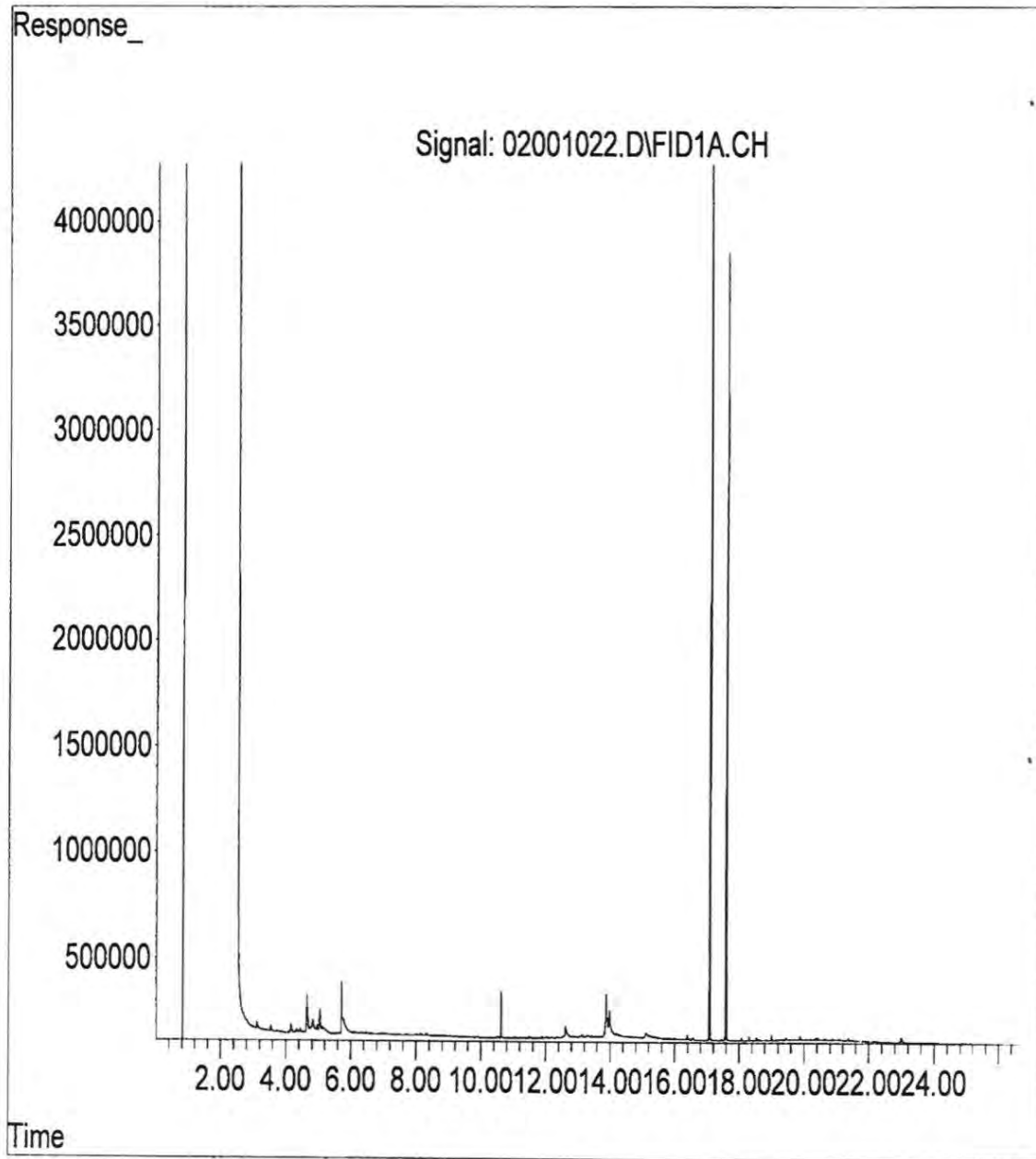


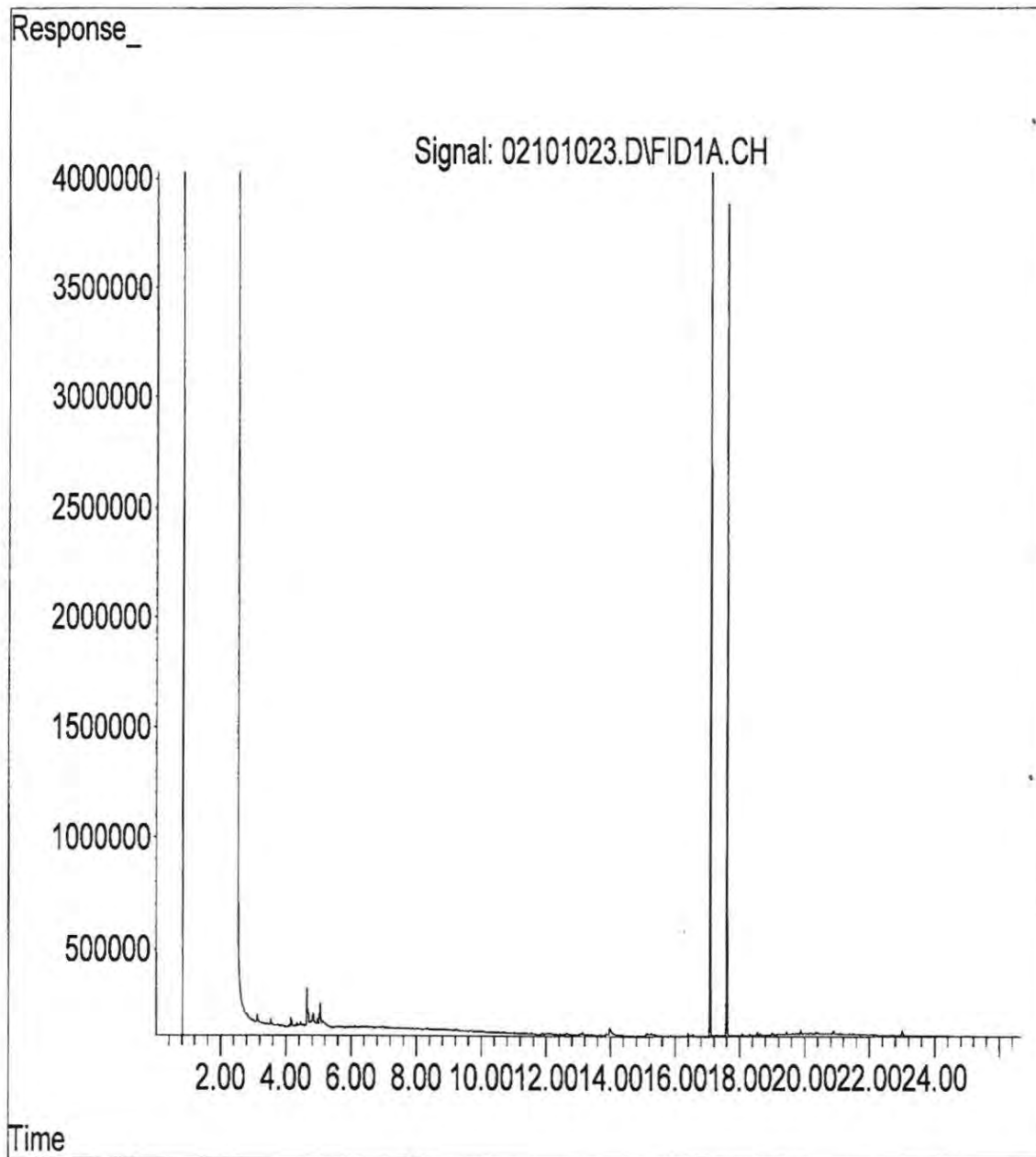


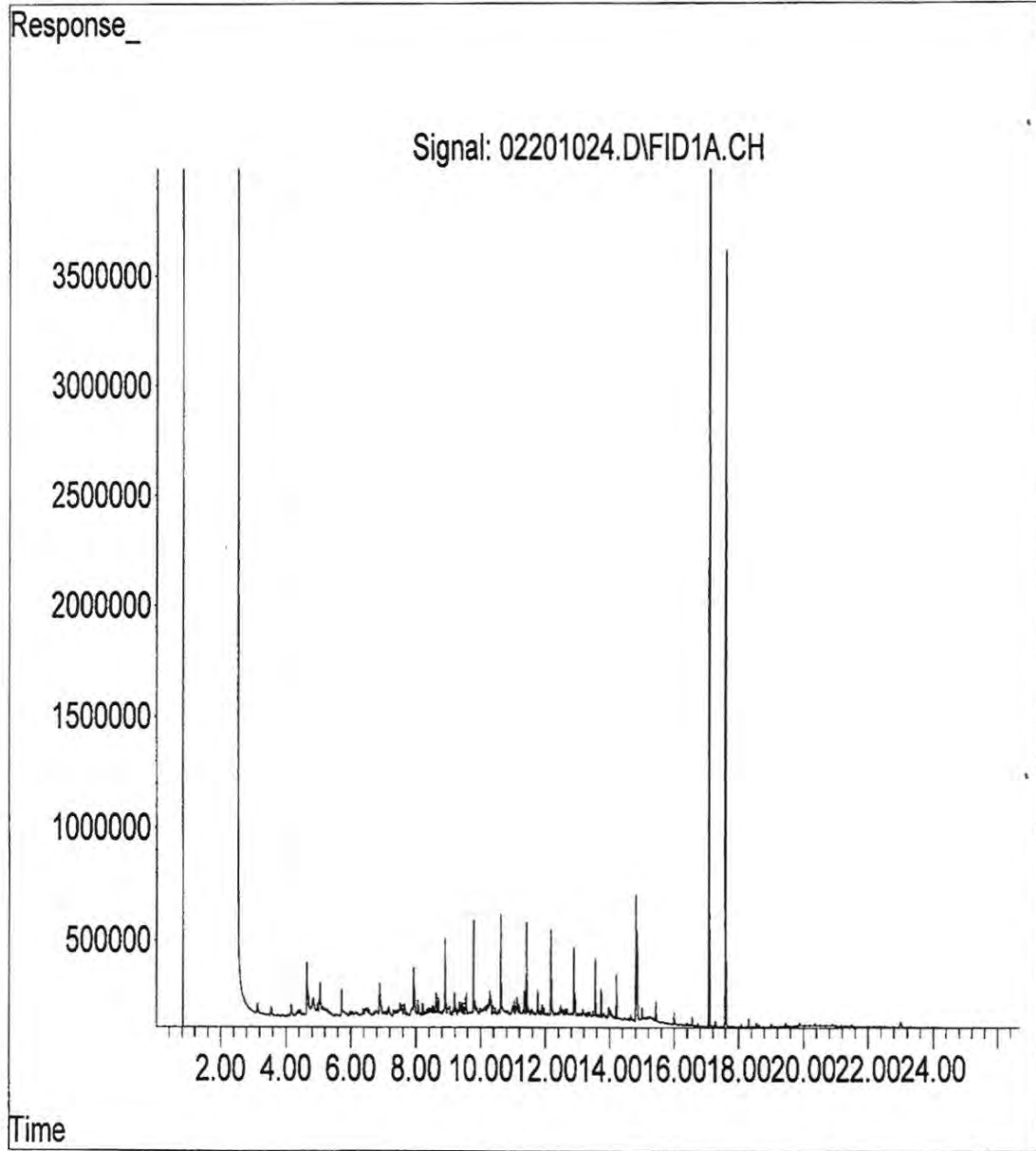


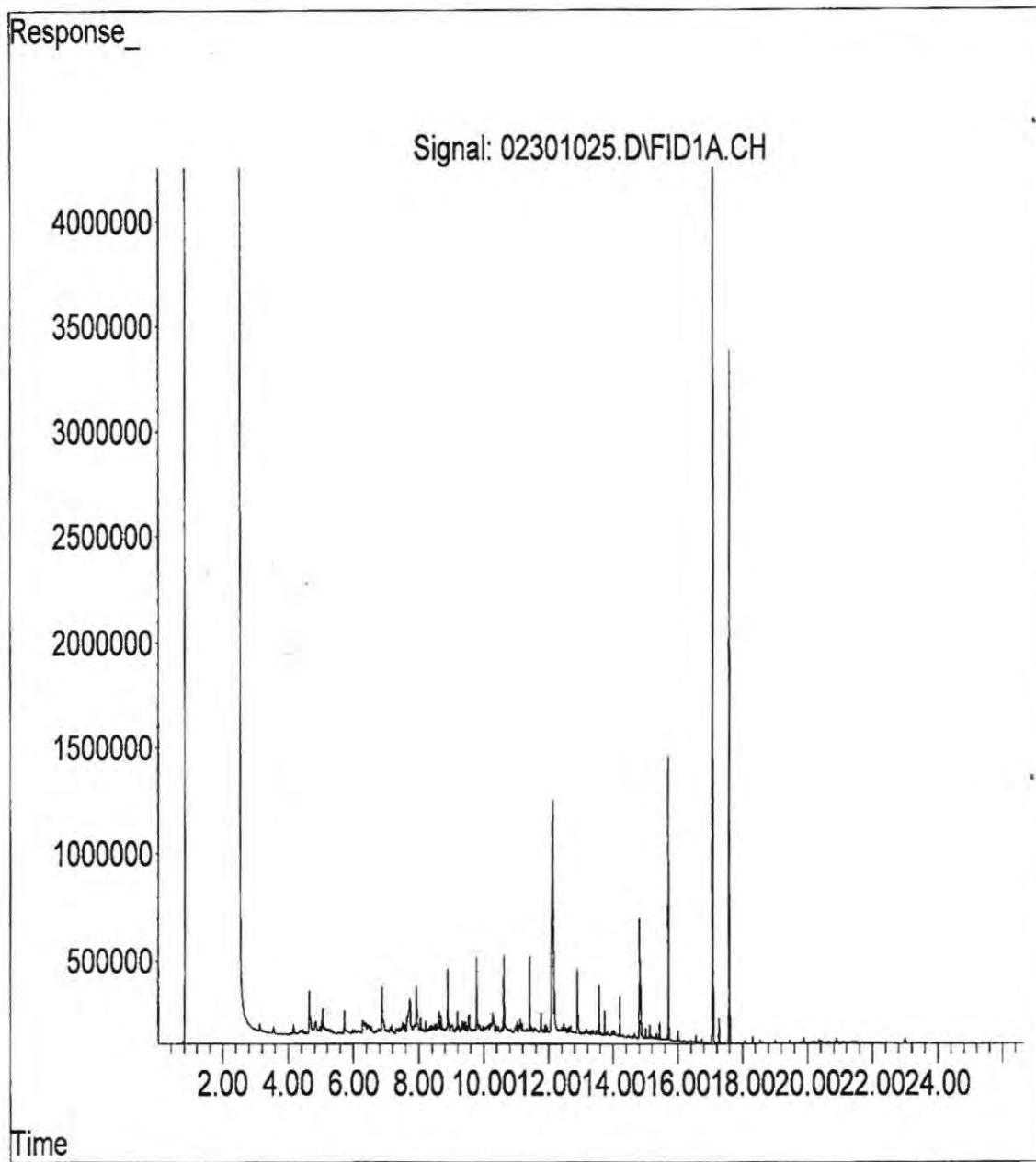


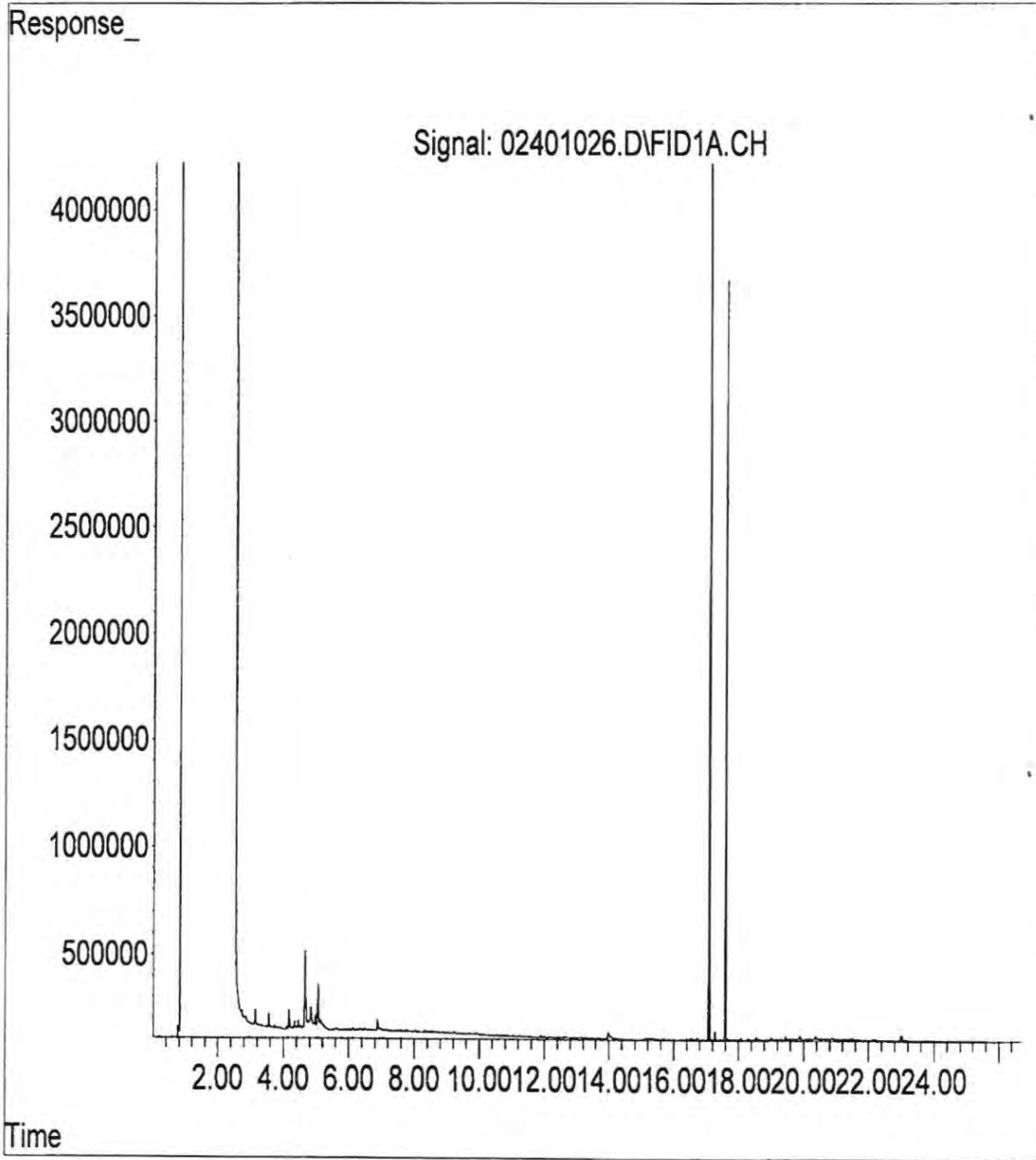










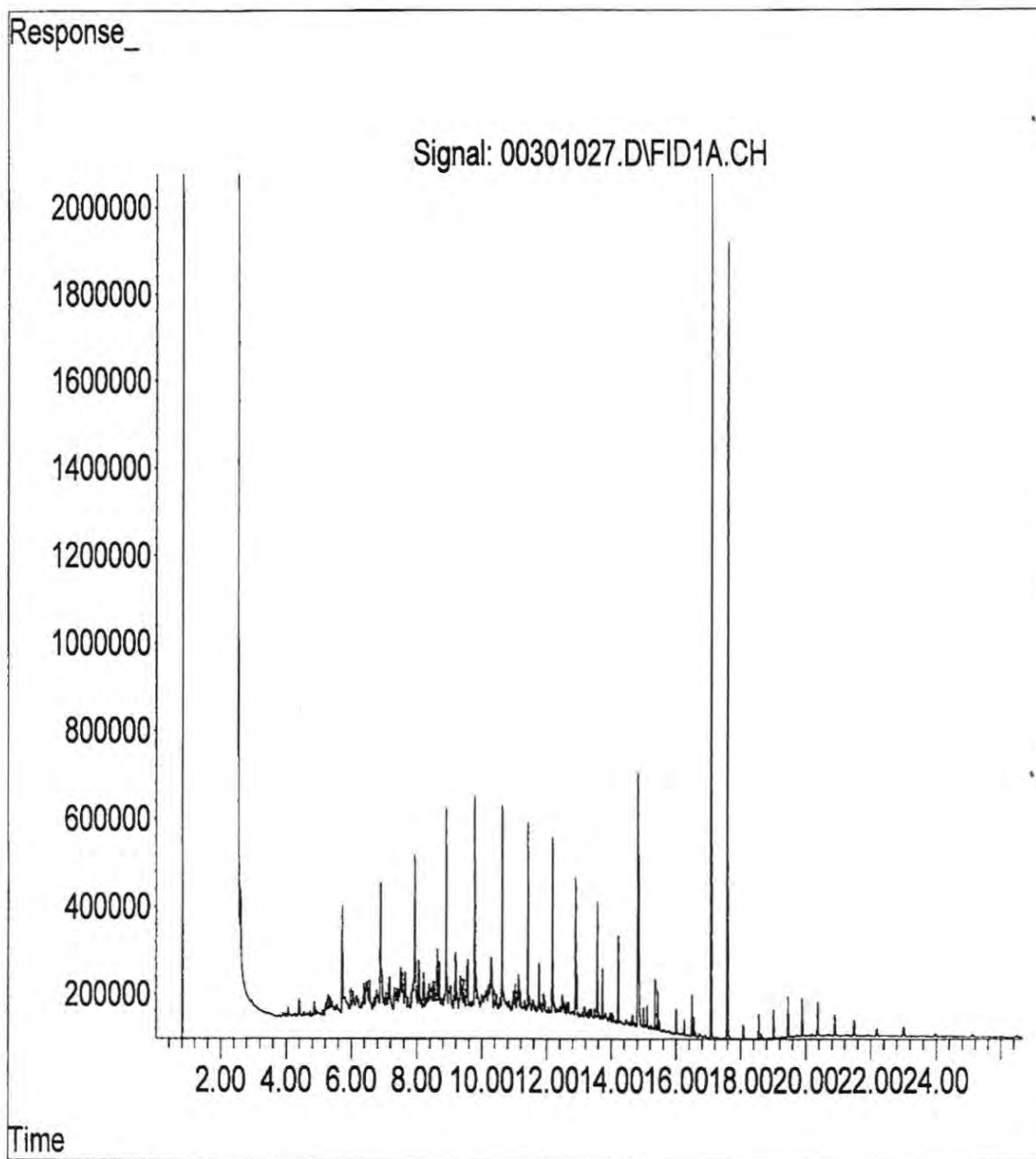


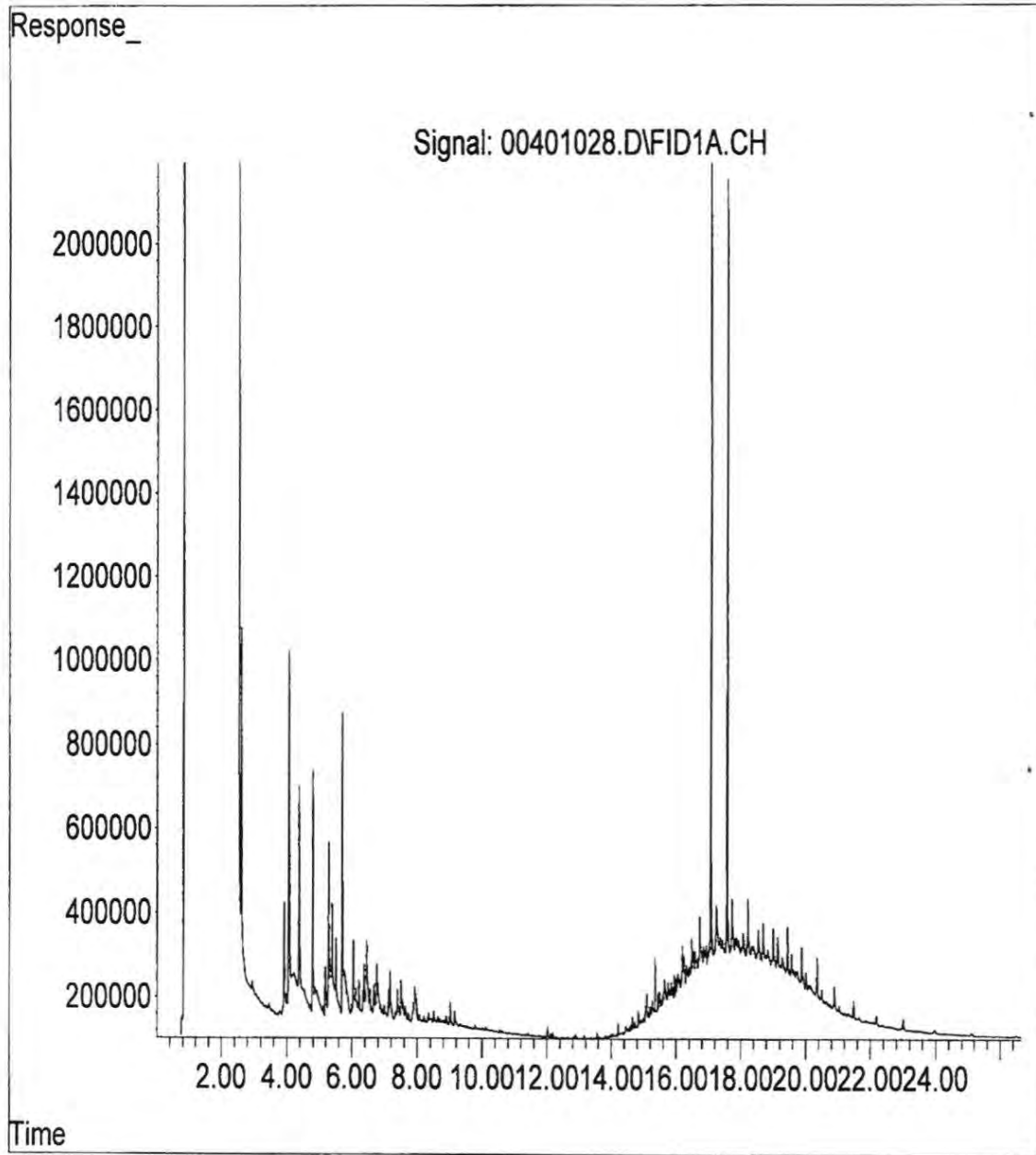
Data Path: T:\Data3\FID2\2023DATA\02FEB\19\
 Data File: 00301027.D
 Signal(s): \FID1A.CH
 Acq On: 20 Feb 2023 8:52 am
 Operator: taz
 Sample: 1000ppm Diesel
 Misc: 0

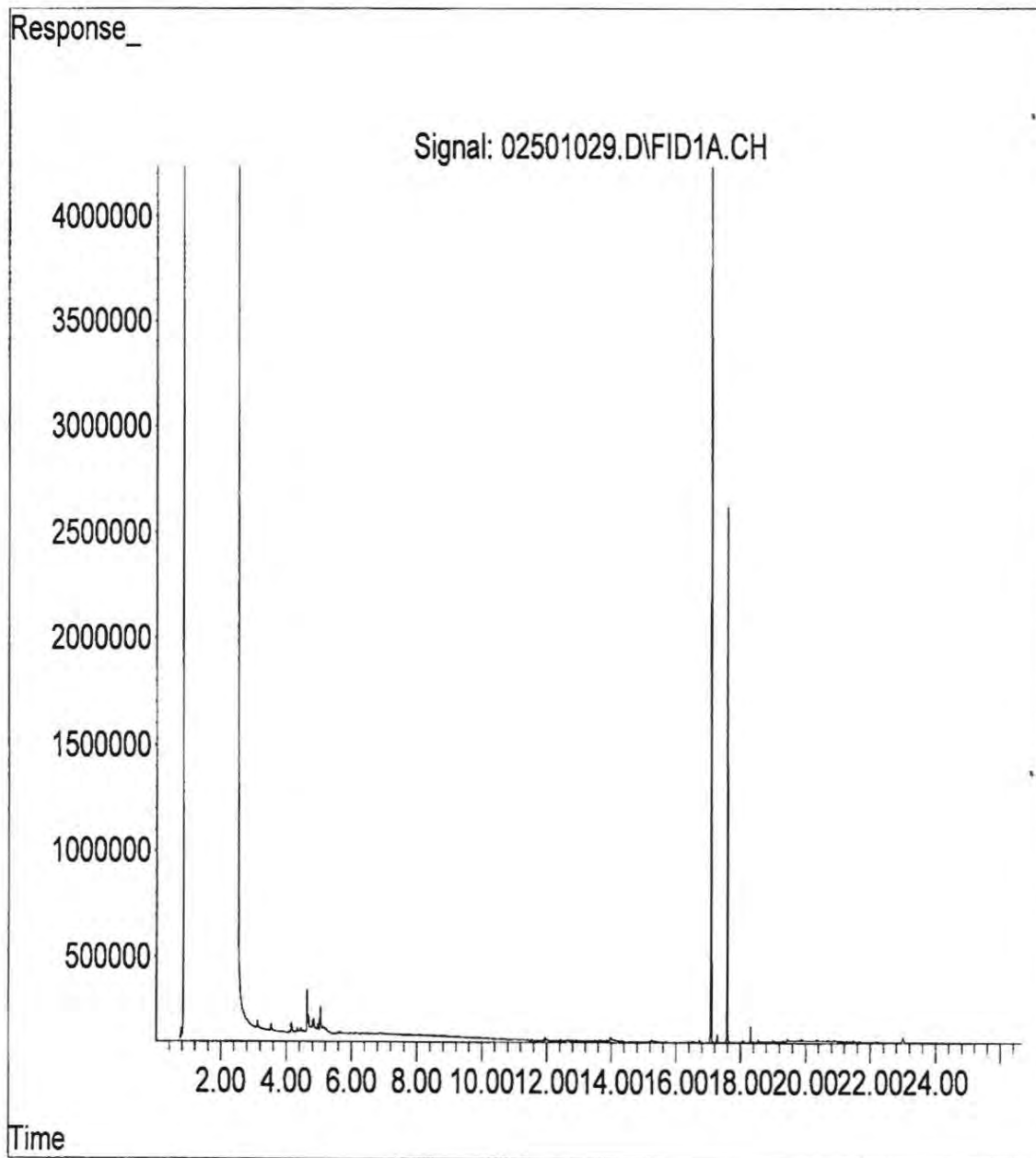
Vial: 3 Sample Multiplier: 1

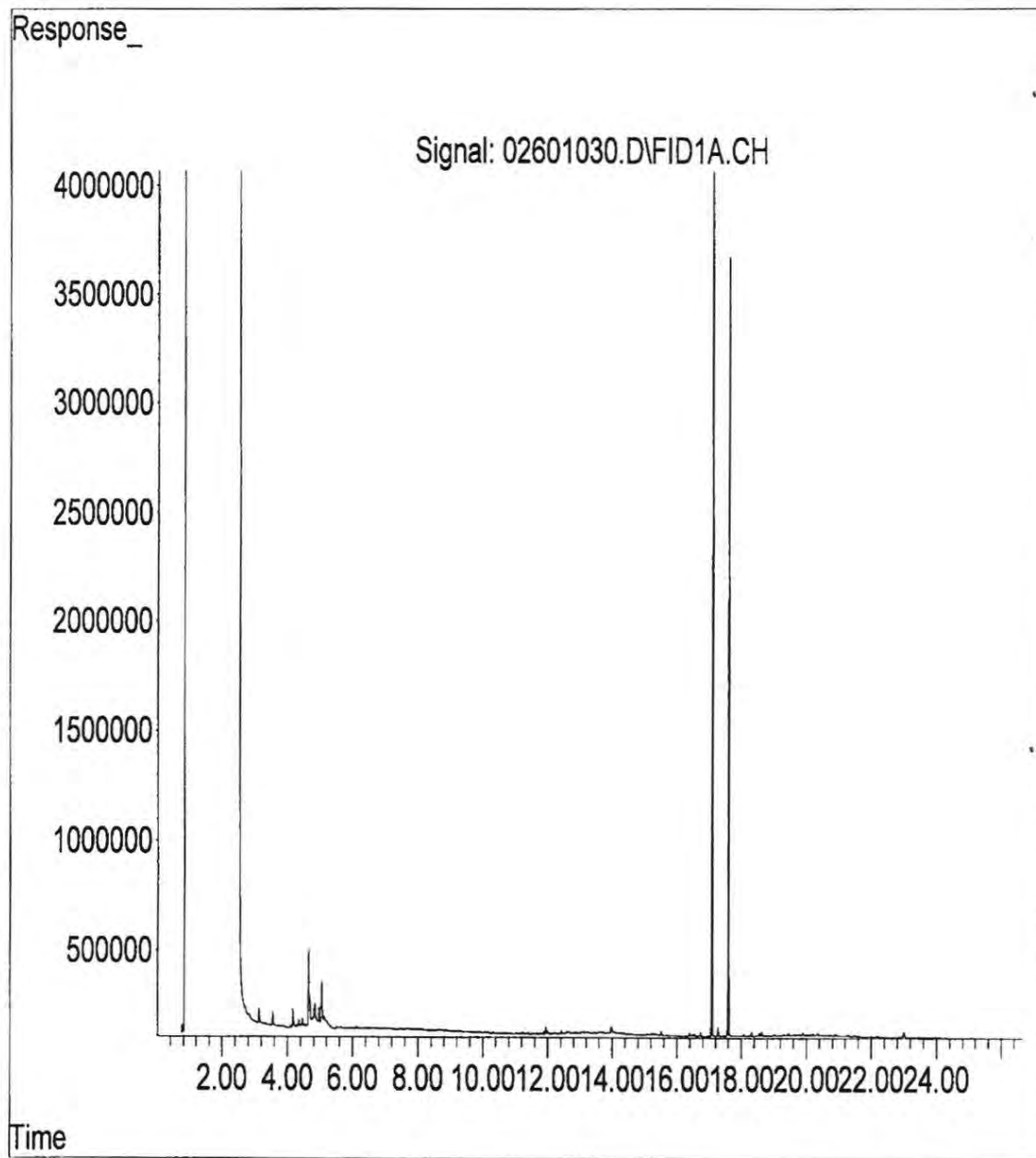
Quant Time: Mon Feb 20 09:18:50 2023
 Quant Method: T:\Data3\FID2\2021METHODS\220916THPDx.M
 Quant Title: NWTPH-HCID-EPA 8015B
 QLast Update: Fri Dec 23 10:08:12 2022
 Integrator: MSD ChemStation E.02.02.1431 Copyright © 1989-2011 Agilent Technologies, Inc.

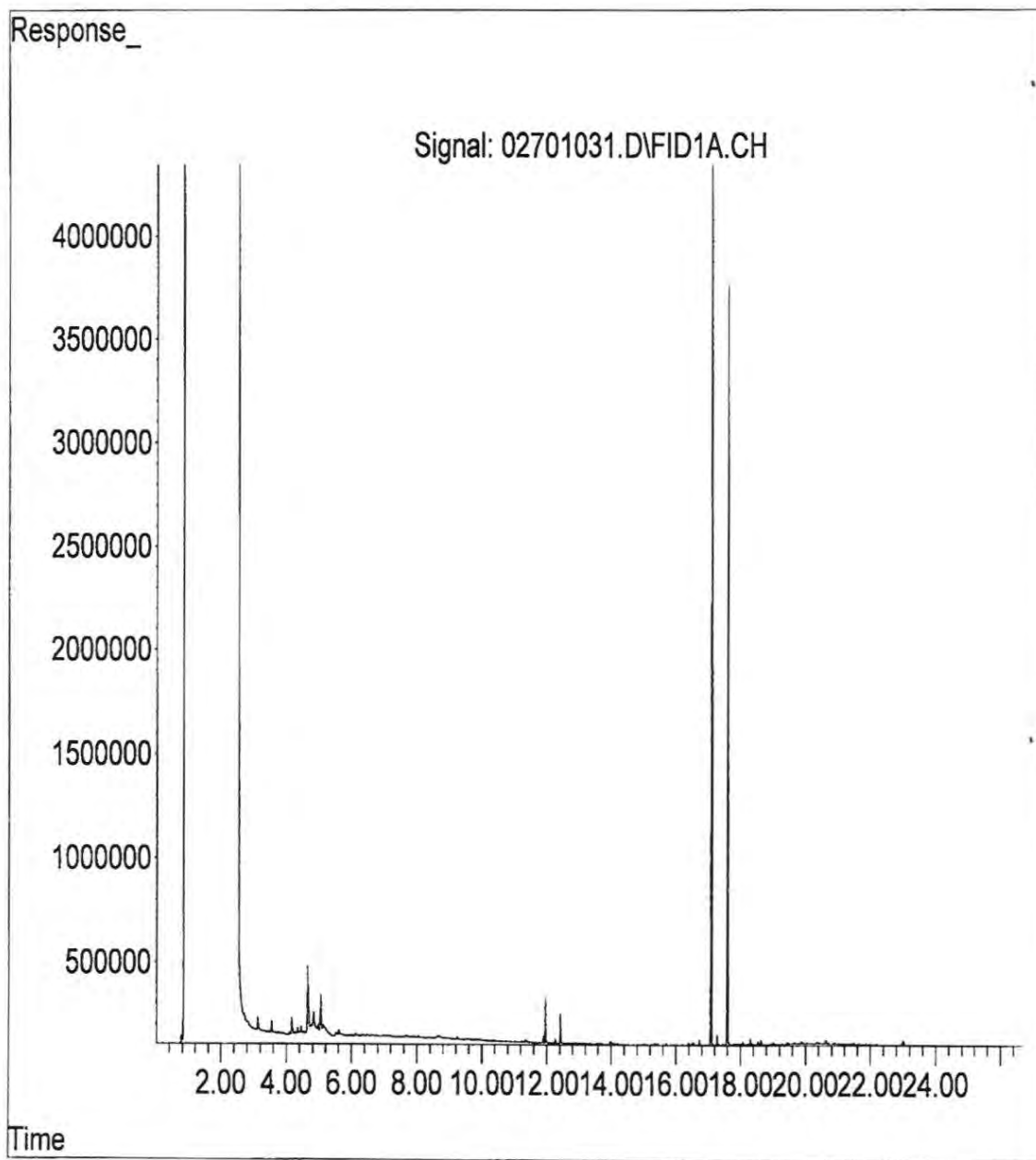
Compund	R.T.	Response	Conc
Internal Standards			
1) Pentacosane	17.09	23976300	50.00 ppm
System Monitoring Compunds			
6) Hexacosane	17.60	22795500	48.44 ppm
Target Compounds			
2) TPH Gasoline	0.00	0	0.000 ppm
4) TPH Diesel	11.13	406212000	1046.600 ppm
5) TPH Waste Oil	0.00	0	0.000 ppm
3) TPH Kerosene	0.00	0	0.000 ppm

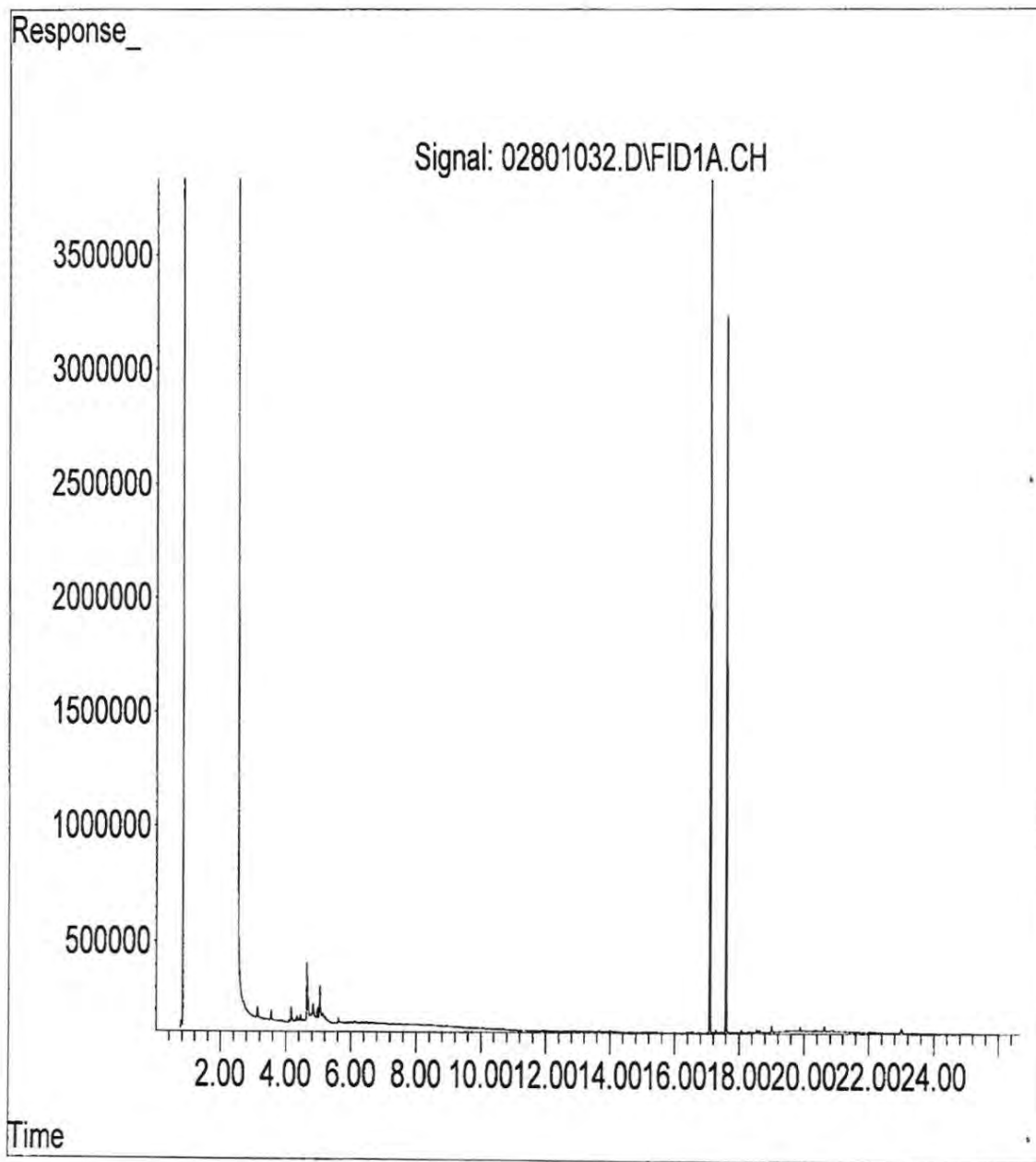


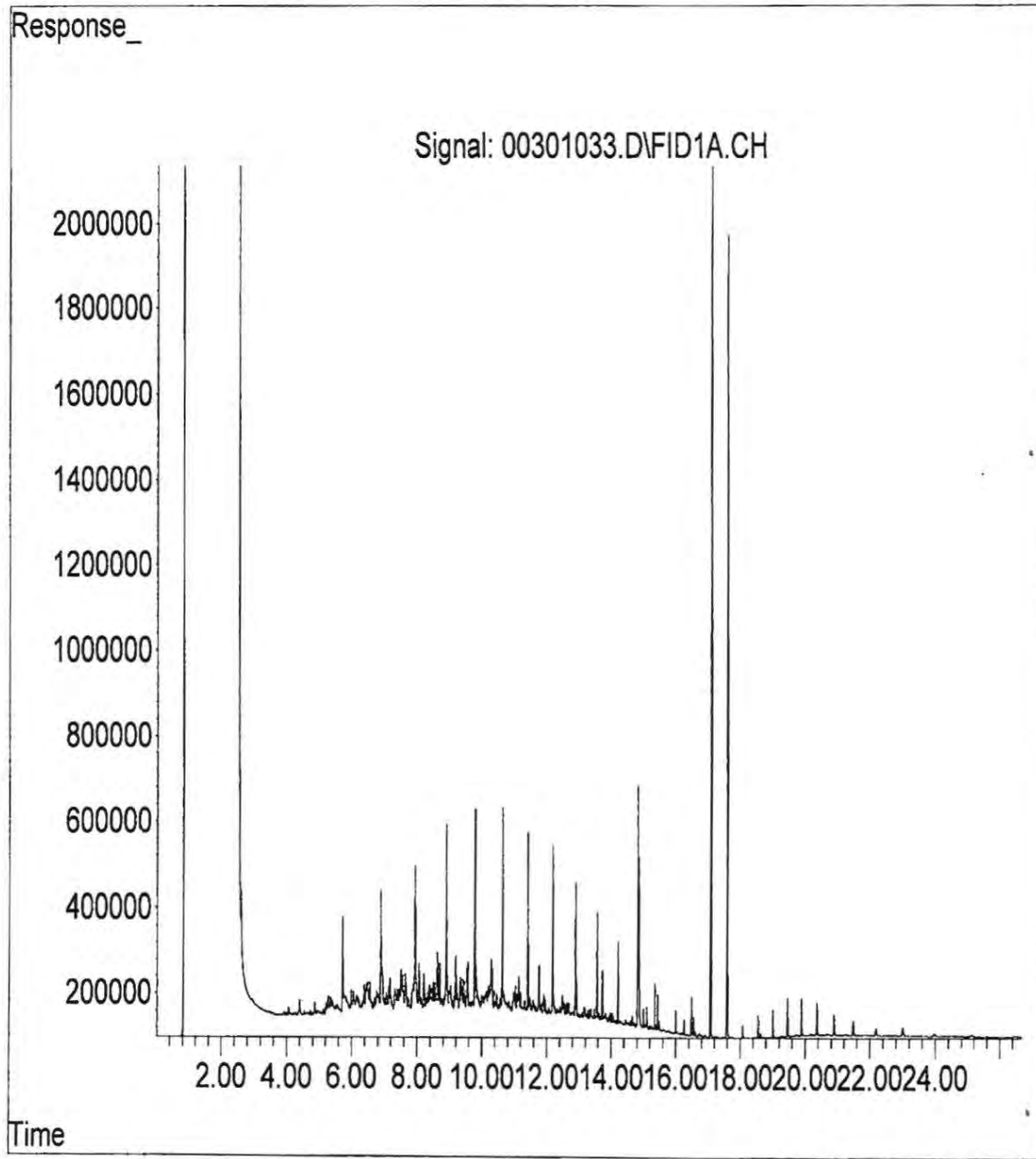


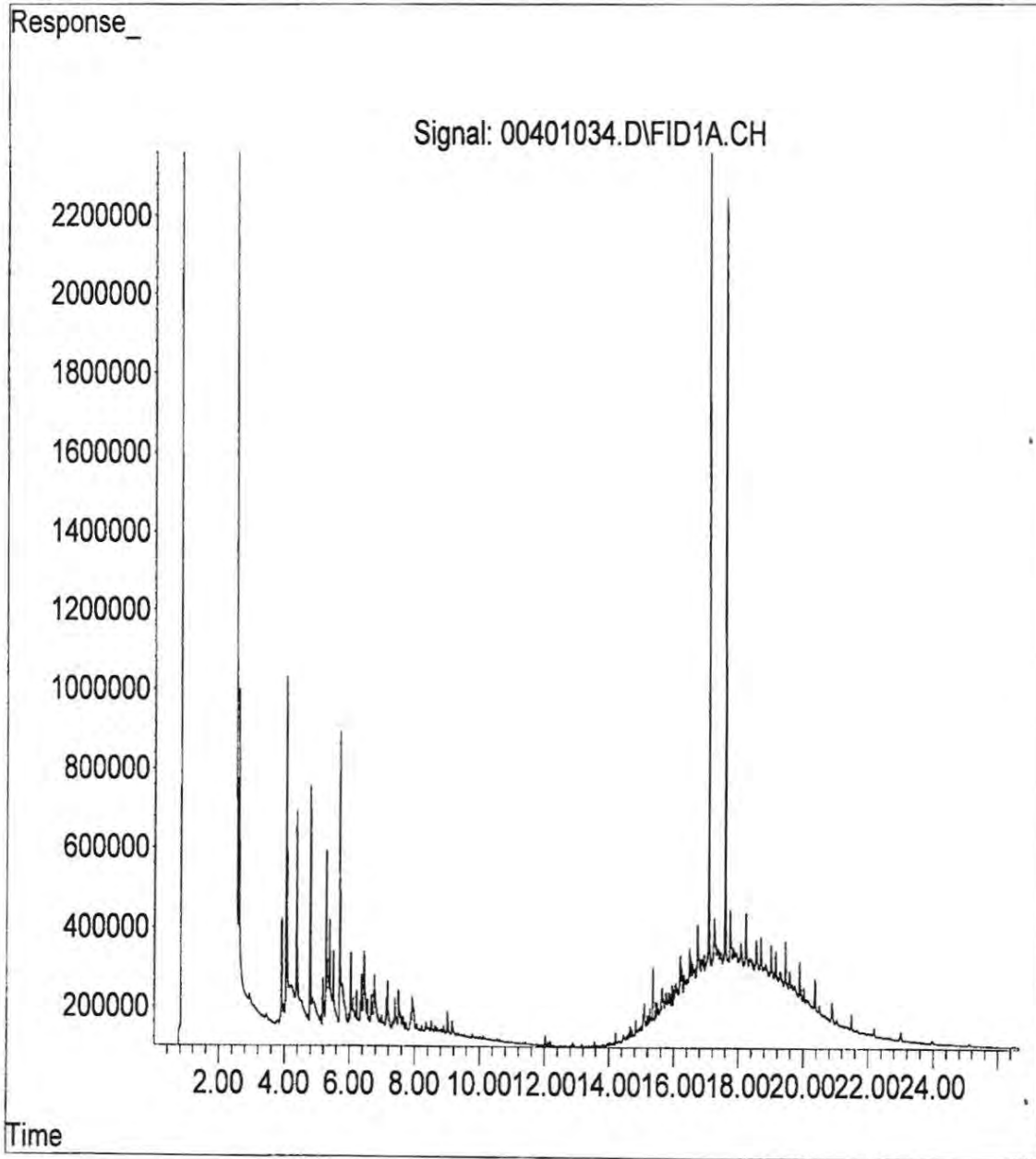












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Client: Cardno - Hawaii
Address: 737 Bishop St., Ste. 3050
Honolulu, HI 96813
Attn: Benjamin Berridge

Work Order: WDB0485
Project: ADC Water Quality Monitoring
Reported: 4/2/2023 21:37

Case Narrative

<u>Laboratory ID</u>	<u>Sample Name</u>
WDB0485-01	D-6
WDB0485-02	D-7
WDB0485-03	D-8
WDB0485-04	U-1/WW-7

QA/QC Checks

<u>Parameters</u>	<u>Yes / No</u>	<u>Exceptions / Deviations</u>
Sample Holding Time Valid?	Y	NA
Surrogate Recoveries Valid?	Y	NA
QC Sample(s) Recoveries Valid?	Y	NA
Method Blank(s) Valid?	Y	NA
Comments	N	See Comments Section

1. Holding Time Requirements

No problems encountered.

2. Calibration Requirements

No problems encountered.

3. Surrogate Recovery Requirements

No problems encountered.

4. QC Sample (LCS/MS/MSD) Recovery Requirements

No problems encountered.

5. Method Blank Requirements

The method blanks were non-detect for all analytes. No problems encountered.

6. Internal Standard(s) Response Requirements

No problems encountered

7. Comments

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**I certify that this data package is in compliance with the terms and conditions of the contract.
Release of the data contained in this data package has been authorized by the Laboratory
Manager or his or her designee.**

Kathleen A. Sattler, Lab Manager

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Analytical Results Report

Sample Location: D-6
Lab/Sample Number: WDB0485-01 Collect Date: 02/07/23 09:30
Date Received: 02/09/23 10:23 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00151	mg/L	0.000540	0.00100	2/16/23 10:53	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 14:11	JLG	EPA 245.1	
Semivolatiles								
Diesel	ND	mg/L	0.0525	0.0807	2/20/23 10:01	taz	NWTPH-HCID	
Gasoline	ND	mg/L	0.161	0.404	2/20/23 10:01	taz	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0464	0.0807	2/20/23 10:01	taz	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.161	0.404	2/20/23 10:01	taz	NWTPH-HCID	
<i>Surrogate: n-Hexacosane</i>	<i>57.7%</i>		<i>50-150</i>		<i>2/20/23 10:01</i>	<i>taz</i>	<i>NWTPH-HCID</i>	

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Analytical Results Report

(Continued)

Sample Location: D-7
Lab/Sample Number: WDB0485-02 Collect Date: 02/07/23 09:55
Date Received: 02/09/23 10:23 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00176	mg/L	0.000540	0.00100	2/16/23 10:51	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 14:14	JLG	EPA 245.1	
Semivolatiles								
Diesel	ND	mg/L	0.0546	0.0840	2/20/23 10:36	taz	NWTPH-HCID	
Gasoline	ND	mg/L	0.168	0.420	2/20/23 10:36	taz	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0483	0.0840	2/20/23 10:36	taz	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.168	0.420	2/20/23 10:36	taz	NWTPH-HCID	
<i>Surrogate: n-Hexacosane</i>	<i>86.5%</i>		<i>50-150</i>		<i>2/20/23 10:36</i>	<i>taz</i>	<i>NWTPH-HCID</i>	

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Analytical Results Report

(Continued)

Sample Location: D-8
Lab/Sample Number: WDB0485-03 Collect Date: 02/07/23 10:30
Date Received: 02/09/23 10:23 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00132	mg/L	0.000540	0.00100	2/16/23 10:49	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 14:16	JLG	EPA 245.1	
Semivolatiles								
Diesel	ND	mg/L	0.0522	0.0803	2/20/23 11:11	taz	NWTPH-HCID	
Gasoline	ND	mg/L	0.161	0.402	2/20/23 11:11	taz	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0462	0.0803	2/20/23 11:11	taz	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.161	0.402	2/20/23 11:11	taz	NWTPH-HCID	
<i>Surrogate: n-Hexacosane</i>	<i>88.9%</i>		<i>50-150</i>		<i>2/20/23 11:11</i>	<i>taz</i>	<i>NWTPH-HCID</i>	

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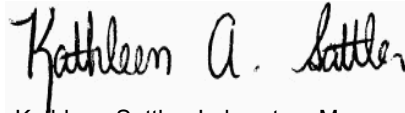
Analytical Results Report

(Continued)

Sample Location: U-1/WW-7
Lab/Sample Number: WDB0485-04 Collect Date: 02/07/23 11:05
Date Received: 02/09/23 10:23 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	<1	mg/L			2/10/23 9:12	EMG	EPA 160.2	
Metals by ICP-MS								
Arsenic	<0.000540	mg/L	0.000540	0.00100	2/16/23 10:46	JLG	EPA 200.8	
Mercury								
Mercury	<0.0640	ug/L	0.0640	0.100	2/14/23 14:19	JLG	EPA 245.1	
Semivolatiles								
Diesel	ND	mg/L	0.0520	0.0800	2/20/23 11:46	taz	NWTPH-HCID	
Gasoline	ND	mg/L	0.160	0.400	2/20/23 11:46	taz	NWTPH-HCID	
Lube Oil	ND	mg/L	0.0460	0.0800	2/20/23 11:46	taz	NWTPH-HCID	
Mineral Oil	ND	mg/L	0.160	0.400	2/20/23 11:46	taz	NWTPH-HCID	
Surrogate: <i>n</i> -Hexacosane	88.1%		50-150		2/20/23 11:46	taz	NWTPH-HCID	

Authorized Signature,



Kathleen Sattler, Laboratory Manager

PQL Practical Quantitation Limit
ND Not Detected
MDL Method Detection Limit
Dry Sample results reported on a dry weight basis
* Not a state-certified analyte

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Certifications

Code	Description	Facility	Number
W WA DOE	Washington Department of Ecology	Anatek-Spokane, WA	C585
W FLDOH	Florida Department of Health (NELAC)	Anatek-Spokane, WA	E871099

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Quality Control Data

Inorganics

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDB0335 - W Filtration										
Blank (BDB0335-BLK1)										Prepared & Analyzed: 2/10/2023
TSS	0.100			mg/L						
Blank (BDB0335-BLK2)										Prepared & Analyzed: 2/10/2023
TSS	-0.100			mg/L						
Blank (BDB0335-BLK3)										Prepared & Analyzed: 2/10/2023
TSS	0.00			mg/L						
Blank (BDB0335-BLK4)										Prepared & Analyzed: 2/10/2023
TSS	0.100			mg/L						
Blank (BDB0335-BLK5)										Prepared & Analyzed: 2/10/2023
TSS	0.00			mg/L						
Blank (BDB0335-BLK6)										Prepared & Analyzed: 2/10/2023
TSS	0.200			mg/L						
Blank (BDB0335-BLK7)										Prepared & Analyzed: 2/10/2023
TSS	0.00			mg/L						
Blank (BDB0335-BLK8)										Prepared & Analyzed: 2/10/2023
TSS	0.00			mg/L						
LCS (BDB0335-BS1)										Prepared & Analyzed: 2/10/2023
TSS	95.0			mg/L	100		95.0	90-110		
LCS (BDB0335-BS2)										Prepared & Analyzed: 2/10/2023
TSS	96.0			mg/L	100		96.0	90-110		

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Quality Control Data (Continued)

Inorganics (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDB0335 - W Filtration (Continued)										
LCS (BDB0335-BS3)										
TSS	97.0			mg/L	100		97.0	90-110		
Prepared & Analyzed: 2/10/2023										
LCS (BDB0335-BS4)										
TSS	95.0			mg/L	100		95.0	90-110		
Prepared & Analyzed: 2/10/2023										
LCS (BDB0335-BS5)										
TSS	97.0			mg/L	100		97.0	90-110		
Prepared & Analyzed: 2/10/2023										
LCS (BDB0335-BS6)										
TSS	98.0			mg/L	100		98.0	90-110		
Prepared & Analyzed: 2/10/2023										
Duplicate (BDB0335-DUP4)										
TSS	0.00			mg/L		0.00				20
Source: WDB0235-02 Prepared & Analyzed: 2/10/2023										
Duplicate (BDB0335-DUP5)										
TSS	0.00			mg/L		0.00				20
Source: WDB0241-01 Prepared & Analyzed: 2/10/2023										
Duplicate (BDB0335-DUP6)										
TSS	0.00			mg/L		0.00				20
Source: WDB0362-02 Prepared & Analyzed: 2/10/2023										

Quality Control Data (Continued)

Metals by ICP-MS

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDB0420 - W 3010 Digest										
Blank (BDB0420-BLK1)										
Arsenic	ND		0.00100	mg/L						
Prepared: 2/13/2023 Analyzed: 2/15/2023										
LCS (BDB0420-BS1)										
Arsenic	0.0526		0.00100	mg/L	0.0500		105	85-115		
Prepared: 2/13/2023 Analyzed: 2/15/2023										
Matrix Spike (BDB0420-MS1)										
Arsenic	0.0487		0.00100	mg/L	0.0500	ND	97.4	70-130		
Source: WDB0365-11 Prepared: 2/13/2023 Analyzed: 2/15/2023										
Matrix Spike (BDB0420-MS2)										
Arsenic	0.0549		0.00100	mg/L	0.0500	0.00111	108	70-130		
Source: WDB0365-14 Prepared: 2/13/2023 Analyzed: 2/15/2023										
Matrix Spike Dup (BDB0420-MSD1)										
Arsenic	0.0525		0.00100	mg/L	0.0500	ND	105	70-130	7.46	20
Source: WDB0365-11 Prepared: 2/13/2023 Analyzed: 2/15/2023										
Matrix Spike Dup (BDB0420-MSD2)										
Arsenic	0.0552		0.00100	mg/L	0.0500	0.00111	108	70-130	0.392	20
Source: WDB0365-14 Prepared: 2/13/2023 Analyzed: 2/15/2023										

Quality Control Data (Continued)

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Mercury

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDB0416 - W 245.1 Digest										
Blank (BDB0416-BLK1)										
Mercury	ND		0.100	ug/L						
					Prepared: 2/13/2023 Analyzed: 2/14/2023					
Blank (BDB0416-BLK2)										
Mercury	ND		0.100	ug/L						
					Prepared: 2/13/2023 Analyzed: 2/14/2023					
LCS (BDB0416-BS1)										
Mercury	2.14		0.100	ug/L	2.00		107	85-115		
					Prepared: 2/13/2023 Analyzed: 2/14/2023					
LCS (BDB0416-BS2)										
Mercury	1.97		0.100	ug/L	2.00		98.4	85-115		
					Prepared: 2/13/2023 Analyzed: 2/14/2023					
Matrix Spike (BDB0416-MS1)										
Mercury	1.95		0.100	ug/L	2.00	ND	97.3	70-130		
					Source: WDB0365-11 Prepared: 2/13/2023 Analyzed: 2/14/2023					
Matrix Spike (BDB0416-MS2)										
Mercury	1.71		0.100	ug/L	2.00	ND	85.4	70-130		
					Source: WDB0365-14 Prepared: 2/13/2023 Analyzed: 2/14/2023					
Matrix Spike (BDB0416-MS3)										
Mercury	2.02		0.100	ug/L	2.00	ND	101	70-130		
					Source: WDB0445-02 Prepared: 2/13/2023 Analyzed: 2/14/2023					
Matrix Spike Dup (BDB0416-MSD1)										
Mercury	1.91		0.100	ug/L	2.00	ND	95.7	70-130	1.66	20
					Source: WDB0365-11 Prepared: 2/13/2023 Analyzed: 2/14/2023					
Matrix Spike Dup (BDB0416-MSD2)										
Mercury	1.79		0.100	ug/L	2.00	ND	89.4	70-130	4.58	20
					Source: WDB0365-14 Prepared: 2/13/2023 Analyzed: 2/14/2023					
Matrix Spike Dup (BDB0416-MSD3)										
Mercury	2.01		0.100	ug/L	2.00	ND	101	70-130	0.496	20
					Source: WDB0445-02 Prepared: 2/13/2023 Analyzed: 2/14/2023					

Quality Control Data (Continued)

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDB0569 - W TPH-Dx										
Blank (BDB0569-BLK1)										
Lube Oil	ND		0.0800	mg/L						
Mineral Oil	ND		0.400	mg/L						
Gasoline	ND		0.400	mg/L						
Diesel	ND		0.0800	mg/L						
<i>Surrogate: n-Hexacosane</i>			0.0366	mg/L	0.0500		73.3	50-150		
LCS (BDB0569-BS1)										
Diesel	0.468		0.0800	mg/L	0.500		93.7	70-130		
<i>Surrogate: n-Hexacosane</i>			0.0462	mg/L	0.0500		92.5	50-150		
LCS Dup (BDB0569-BSD1)										
Diesel	0.500		0.0800	mg/L	0.500		100	70-130	6.53	20
<i>Surrogate: n-Hexacosane</i>			0.0456	mg/L	0.0500		91.2	50-150		

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Quality Control Data (Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BDB0569 - W TPH-Dx (Continued)										
Matrix Spike (BDB0569-MS1)			Source: WDB0365-14			Prepared: 2/17/2023 Analyzed: 2/20/2023				
Diesel	0.822		0.141	mg/L	0.879	ND	93.6	70-130		
<i>Surrogate: n-Hexacosane</i>			<i>0.0822</i>	<i>mg/L</i>	<i>0.0879</i>		<i>93.6</i>	<i>50-150</i>		
Matrix Spike Dup (BDB0569-MSD1)			Source: WDB0365-14			Prepared: 2/17/2023 Analyzed: 2/20/2023				
Diesel	0.960		0.171	mg/L	1.07	ND	89.9	70-130	15.5	20
<i>Surrogate: n-Hexacosane</i>			<i>0.0823</i>	<i>mg/L</i>	<i>0.107</i>		<i>77.0</i>	<i>50-150</i>		



Chain of Custody Record

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 504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Anatek
Log-In #

WDB0485

 Due: 02/23/23

Company Name: Cardno-GS	Project Manager: Benjamin Berridge
Address: 737 Bishop St Suite 3050	Project Name & #: ADC Water Quality Monitoring
City: Honolulu State: HI Zip: 96813	Email Address: benjamin.berridge@cardno-gs.com
Phone: (808) 476-0067	Purchase Order #:
Fax:	Sampler Name & phone:

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*All rush order requests must be prior approved.

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 Fax
 Email

Provide Sample Description				List Analyses Requested								Note Special Instructions/Comments						
Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	TSS EPA 160.2	TPH HClD - SW 846 MOD 8015	**TPH GRO SW846MB015	Arsenic EPA 200.8	Mercury EPA 245.1								
	Storm water samples																	**Please do not conduct TPH GRO analysis until Cardno confirms it should be run.
D-6		2-7-2023 / 09:30 HST	Water	5		X	X	X	X	X								
D-7		2-7-2023 / 09:55 HST	Water	5		X	X	X	X	X								
D-8		2-7-2023 / 10:30 HST	Water	5		X	X	X	X	X								
U-1/WW-7		2-7-2023 / 11:05 HST	Water	5		X	X	X	X	X								

Inspection Checklist

Received Intact?	<input checked="" type="checkbox"/>	N
Labels & Chains Agree?	<input checked="" type="checkbox"/>	N
Containers Sealed?	<input checked="" type="checkbox"/>	N
VOC Head Space?	<input checked="" type="checkbox"/>	N

Temperature (°C): 21.8 18.2

Preservative: _____

Date & Time: _____

Inspected By: _____

	Printed Name	Signature	Company	Date	Time
Relinquished by	Ben Berridge		Cardno	2/7/2023	13:00
Received by	Joseph J. Pappas		Anatek	2/9/23	10:23
Relinquished by					
Received by					
Relinquished by					
Received by					



Sample Receipt and Preservation Form

WDB0485



Due 02/23/23

Client Name: Cardno Project: ADC Water Quality

TAT: Normal RUSH: _____ days

Samples Received From: FedEx UPS USPS Client Courier Other: _____

Custody Seal on Cooler/Box: Yes No Custody Seals Intact: Yes No N/A

Number of Coolers/Boxes: 1 Type of Ice: Ice/Ice Packs Blue Ice Dry Ice None

Packing Material: Bubble Wrap Bags Foam/Peanuts None Other: _____

Cooler Temp As Read (°C): 28°C Cooler Temp Corrected (°C): 12.8°C Thermometer Used: IR #2

Comments:

Samples Received Intact? Yes No N/A
 Chain of Custody Present? Yes No N/A
 Samples Received Within Hold Time? Yes No N/A
 Samples Properly Preserved? Yes No N/A
 VOC Vials Free of Headspace (<6mm)? Yes No N/A
 VOC Trip Blanks Present? Yes No N/A
 Labels and Chains Agree? Yes No N/A
 Total Number of Sample Bottles Received: 20

Chain of Custody Fully Completed? Yes No N/A
 Correct Containers Received? Yes No N/A
 Anatek Bottles Used? Yes No Unknown

Record preservatives (and lot numbers, if known) for containers below:

1100mL unpreserved 6100mL unpreserved RAS
6100mL HCl 2203512
1250mL unpreserved pH 2 2102558
6424mL x 2 HCl 59072

Notes, comments, etc. (also use this space if contacting the client - record names and date/time)

Received/Inspected By: Kathy Sattler Date/Time: 2-9-23 1100

TSS (SM2540D/EPA 160.2)-TS(SM 2540B)

Batch ID: BDB0335 Date: 02.10.23 Time: 9:12 Initials: EMG

QC REQUIREMENTS: Blank <1ppm, LFB %Rec= 90-110%, MS/MSD %Rec= 80-120% Run a blank and lcs before and after every 20 samples, plus dup and ms/msd after 20 samples.

TSS Reagents	Std. #	Amount Spiked	Balance ID	Oven	Temp	Filters	Thermometer
100ppm Cellulose TSS Soln.	2300424	100 ppm	BAL-06	3	111	2201445	T-Oven 3

Comments: first weight 02.14.23 09:37

Sample Number	Sample ID	Dish ID	Filter Wt (g)	mLs used	Dry Weight #1	Dry Weight #2**	Dilution Factor	IResult (mg/L)	FResult (mg/L)	QC Date & Initials
BDB0335-BLK1	Blank	342	0.1073	1000	0.1074	0.1074	0.1	1.00	0.10	
BDB0335-BLK2	Blank	343	0.1067	1000	0.1067	0.1066	0.1	-1.00	-0.10	
BDB0335-BLK3	Blank	344	0.1063	1000	0.1065	0.1063	0.1			
BDB0335-BLK4	Blank	345	0.1061	1000	0.1062	0.1063	0.1	1.00	0.10	
BDB0335-BLK5	Blank	346	0.1107	1000	0.1107	0.1109	0.1			
BDB0335-BLK6	Blank	347	0.1071	1000	0.1073	0.1073	0.1	2.00	0.20	
BDB0335-BLK7	Blank	348	0.1069	1000	0.1069	0.1069	0.1			
BDB0335-BLK8	Blank	349	0.106	1000	0.1058	0.106	0.1	-2.00	-0.20	
BDB0335-BS1	LCS	350	0.107	100	0.1165	0.1167	1	95.00	95.00	
BDB0335-BS2	LCS	351	0.107	100	0.1166	0.1167	1	96.00	96.00	
BDB0335-BS3	LCS	352	0.1064	100	0.1161	0.1162	1	97.00	97.00	
BDB0335-BS4	LCS	353	0.1063	100	0.116	0.1158	1	95.00	95.00	
BDB0335-BS5	LCS	354	0.1064	100	0.1161	0.1161	1	97.00	97.00	
BDB0335-BS6	LCS	355	0.1058	100	0.1156	0.1157	1	98.00	98.00	
MDB0140-02	Influent	379	0.1062	50	0.1321	0.1323	2	259.00	518.00	
MDB0157-02	Influent	380	0.1066	50	0.1208	0.1205	2	139.00	278.00	
MDB0161-02	Influent	381	0.1101	10	0.1452	0.1456	10	351.00	3510.00	
MDB0162-02	WW Influent	382	0.1069	50	0.112	0.112	2	51.00	102.00	
MDB0168-02	Influent	383	0.1071	50	0.1187	0.1187	2	116.00	232.00	
BDB0335-DUP1	Duplicate MDB0169-01	384	0.1059	50	0.1094	0.1094	2	35.00	70.00	
MDB0169-01	Ideal Effluent	385	0.1073	50	0.1104	0.1104	2	31.00	62.00	
BDB0335-DUP2	Duplicate MDB0169-02	311	0.1065	100	0.1098	0.1097	1	32.00	32.00	
MDB0169-02	Settling Effluent	312	0.1065	100	0.1094	0.1095	1	29.00	29.00	
MDB0169-03	Influent	313	0.1066	20	0.1121	0.112	5	54.00	270.00	
MDB0180-01	BOD/TSS INFLUENT	314	0.1057	50	0.1321	0.1319	2	262.00	524.00	

TSS (SM2540D/EPA 160.2)-TS(SM 2540B)

Sample Number	Sample ID	Dish ID	Filter Wt (g)	mLs used	Dry Weight #1	Dry Weight #2**	Dilution Factor	IResult (mg/L)	FResult (mg/L)	QC Date & Initials
MDB0181-02	Influent	315	0.1065	50	0.1165	0.1164	2	99.00	198.00	
MDB0222-01	Influent	316	0.1065	80	0.114	0.1139	1.25	74.00	92.50	
MDB0226-01	Influent	317	0.1069	50	0.1134	0.1132	2	63.00	126.00	
WDB0203-01	INF	318	0.1068	80	0.1116	0.1115	1.25	47.00	58.75	
WDB0203-02	EFF	319	0.1067	1000	0.1137	0.1137	0.1	70.00	7.00	
WDB0204-01	INF Comp	320	0.1071	90	0.1172	0.1173	1.11111111	101.00	112.22	
BDB0335-DUP3	Duplicate WDB0204-02	321	0.1058	500	0.1102	0.1104	0.2	44.00	8.80	
WDB0204-02	EFF Comp	322	0.1072	500	0.1109	0.1111	0.2	37.00	7.40	
WDB0210-01	Quincy Foods (580-123082	323	0.1066	15	0.1658	0.1658	6.6666667	592.00	3946.67	
WDB0217-01	Mt. Spokane A	324	0.1071	700	0.112	0.1117	0.1428571	46.00	6.57	
WDB0217-02	Mt. Spokane B	325	0.1063	400	0.112	0.1122	0.25	57.00	14.25	
WDB0217-03	Mt. Spokane C	326	0.1062	300	0.1119	0.1119	0.3333333	57.00	19.00	
WDB0217-04	Meadowridge	327	0.1064	90	0.1147	0.1146	1.1111111	82.00	91.11	
WDB0227-01	Inf	328	0.1068	200	0.1117	0.1116	0.5	48.00	24.00	
WDB0227-02	Eff	329	0.1077	500	0.1114	0.1113	0.2	36.00	7.20	
WDB0235-01	INF	330	0.1067	70	0.1168	0.1165	1.4285714	98.00	140.00	
BDB0335-DUP4	Duplicate WDB0235-02	331	0.1063	500	0.1082	0.1084	0.2	19.00	3.80	
WDB0235-02	EFF	332	0.1066	500	0.1085	0.1086	0.2	19.00	3.80	
BDB0335-DUP5	Duplicate WDB0241-01	333	0.1067	250	0.1085	0.1085	0.4	18.00	7.20	
WDB0241-01	LOSS Effluent	334	0.1065	250	0.1084	0.1082	0.4	17.00	6.80	
WDB0243-01	Influent	335	0.1074	50	0.118	0.1181	2	106.00	212.00	
WDB0243-02	Effluent	707	0.1059	500	0.107	0.1072	0.2	11.00	2.20	
WDB0339-01	Loss Pressure Dosing Tank	708	0.1069	100	0.1101	0.11	1	31.00	31.00	
WDB0350-01	H5 (580-123171-1)	709	0.107	455	0.1104	0.1105	0.2197802	34.00	7.47	
WDB0352-01	Influent	710	0.1069	150	0.1106	0.1109	0.6666667	37.00	24.67	
WDB0353-01	Influent	711	0.1069	160	0.1224	0.1227	0.625	155.00	96.88	
WDB0358-01	Quincy School Dist. Week	712	0.1068	150	0.1126	0.1125	0.6666667	57.00	38.00	
WDB0359-01	Sabey (580-123164-1)	714	0.107	200	0.107	0.107	0.5			
WDB0360-01	Microsoft Columbia (580-1	713	0.1063	200	0.107	0.1067	0.5	4.00	2.00	
WDB0361-01	Vitalix (580-123157-1)	715	0.1067	200	0.1084	0.1081	0.5	14.00	7.00	
WDB0362-01	Muni Influent (580-123177-	716	0.1071	50	0.1149	0.1146	2	75.00	150.00	
BDB0335-DUP6	Duplicate WDB0362-02	717	0.1063	200	0.1097	0.1095	0.5	32.00	16.00	

TSS (SM2540D/EPA 160.2)-TS(SM 2540B)

Sample Number	Sample ID	Dish ID	Filter Wt (g)	mLs used	Dry Weight #1	Dry Weight #2**	Dilution Factor	IResult (mg/L)	FResult (mg/L)	QC Date & Initials
WDB0485-02	D-7	673	0.1073	1000	0.1113	0.1112	0.1	39.00	3.90	
WDB0485-03	D-8	674	0.1073	200	0.1195	0.1193	0.5	120.00	60.00	
WDB0485-04	U-1/WW-7	675	0.1075	50	0.1509	0.1506	2	431.00	862.00	

Report Generated By Teledyne CETAC QuickTrace

Analyst: Mercury

Worksheet file: C:\Users\Public\Documents\Teledyne CETAC\QuickTrace\Worksheets\02142023 245A.wszf

Creation Date: 2/14/2023 10:06:22 AM

Comment:

Results

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags
Calibration Blank	STD	02/14/23 11:57:39 am	0.0000	690	31.83	-32.19	
Replicates		938.9 785.1 600.3 434.1					
Standard #1 (0.1 ppb)	STD	02/14/23 12:00:06 pm	0.1000	2541	2.85	-34.24	
Replicates		2595.8 2605.3 2510.6 2453.4					
Standard #2 (0.5 ppb)	STD	02/14/23 12:02:32 pm	0.5000	9470	0.99	-67.71	
Replicates		9514.9 9549.4 9479.7 9336.0					
Standard #3 (2.0 ppb)	STD	02/14/23 12:04:59 pm	2.0000	41100	1.48	105.52	
Replicates		41381.6 41637.0 41144.2 40236.4					
Standard #4 (5.0 ppb)	STD	02/14/23 12:07:27 pm	5.0000	97554	1.70	91.98	
Replicates		95426.8 97144.4 98389.0 99257.7					
Standard #5 (10 ppb)	STD	02/14/23 12:09:54 pm	10.0000	189135	1.55	-63.37	
Replicates		190973.4 191520.9 189017.9 185029.5					

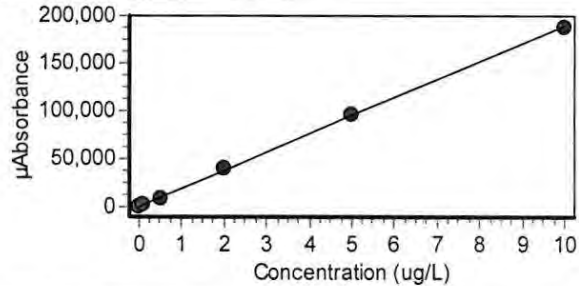
Calibration

Equation: $A = 1298.123 + 18903.516C$

R2: 0.99961

SEE: 1648.0310

Flags:



BLANK	UNK	02/14/23 12:33:29 pm	-0.0604	157	7.93		
Replicates		262.0 196.4 112.1 57.1					
LCS	UNK	02/14/23 12:35:55 pm	1.7300	34008	1.08		
Replicates		33554.2 34220.0 34344.8 33914.1					
WDB0345-01	UNK	02/14/23 12:38:21 pm	-0.0556	248	9.57		
Replicates		367.9 287.9 192.3 142.0					
WDB0350-01	UNK	02/14/23 12:43:52 pm	-0.0762	-143	2.00		
Replicates		-103.1 -148.4 -146.8 -172.2					
ICV	UNK	02/14/23 12:46:18 pm	1.9780	38696	1.27		
Replicates		38748.6 39144.7 38864.3 38026.0					
WDB0359-01	UNK	02/14/23 12:48:44 pm	-0.0519	316	9.84		
Replicates		428.7 346.8 290.3 199.0					
WDB0365-01	UNK	02/14/23 12:51:11 pm	-0.0772	-161	1.34		
Replicates		-135.6 -161.0 -163.6 -183.3					

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags
WDB0365-02	UNK	02/14/23 12:53:38 pm	-0.0796	-206	0.84		
Replicates			-198.3	-192.6	-217.9	-216.0	
WDB0365-03	UNK	02/14/23 12:56:05 pm	-0.0746	-113	0.70		
Replicates			-110.4	-105.6	-107.6	-127.3	
WDB0365-04	UNK	02/14/23 12:58:32 pm	-0.0671	30	2.35		
Replicates			-3.2	13.2	59.8	49.6	
WDB0365-04	UNK	02/14/23 01:00:59 pm	-0.0680	12	3.26		
Replicates			30.9	-12.7	-30.4	62.1	
WDB0365-06	UNK	02/14/23 01:03:27 pm	-0.0742	-106	3.60		
Replicates			-66.7	-64.5	-120.4	-170.6	
WDB0365-07	UNK	02/14/23 01:05:52 pm	-0.0699	-23	1.32		
Replicates			2.6	-29.9	-26.2	-37.3	
BLK	UNK	02/14/23 01:08:19 pm	-0.0526	304	2.48		
Replicates			330.7	315.1	295.7	273.7	
CK	UNK	02/14/23 01:10:45 pm	2.1610	42141	1.45		
Replicates			42409.0	42659.3	42196.0	41299.9	
WDB0365-08	UNK	02/14/23 01:13:11 pm	0.0151	1583	93.51		
Replicates			1894.7	1684.3	1474.3	1277.6	
WDB0365-09	UNK	02/14/23 01:15:38 pm	-0.0787	-190	3.10		
Replicates			-145.3	-157.3	-215.6	-241.7	
WDB0365-10	UNK	02/14/23 01:18:04 pm	-0.0847	-304	0.84		
Replicates			-284.8	-313.5	-303.5	-312.8	
WDB0365-11	UNK	02/14/23 01:20:30 pm	-0.0643	83	1.22		
Replicates			78.8	90.1	98.7	64.4	
MS1	UNK	02/14/23 01:22:57 pm	1.7250	33898	1.79		
Replicates			34185.8	34567.1	33553.0	33285.7	
MSD1	UNK	02/14/23 01:25:24 pm	1.9460	38084	1.38		
Replicates			38255.3	38534.5	38190.9	37354.2	
MS A	UNK	02/14/23 01:27:51 pm	1.8480	36236	0.53		
Replicates			36010.1	36393.4	36383.9	36155.6	
MASD A	UNK	02/14/23 01:30:18 pm	-0.0648	73	7.00		
Replicates			149.6	141.2	25.4	-23.5	
WDB0365-12	UNK	02/14/23 01:32:45 pm	-0.0752	-123	3.99		
Replicates			-79.7	-201.4	-127.9	-83.4	
WDB0365-13	UNK	02/14/23 01:35:12 pm	-0.0681	10	3.14		
Replicates			-1.4	-42.3	39.7	43.9	
WDB0365-14	UNK	02/14/23 01:37:39 pm	-0.0459	430	11.08		
Replicates			557.0	444.3	383.8	333.3	
MS2	UNK	02/14/23 01:40:05 pm	1.7080	33584	0.73		
Replicates			33622.5	33818.0	33638.9	33255.4	

Sample Name	Type	Date/Time	Conc (ug/L)	μAbs	%RSD	Residual	Flags
MSD2	UNK	02/14/23 01:42:32 pm	1.7880	35095	1.07		
Replicates		35132.1 35413.2 35254.6 34579.6					
MS B	UNK	02/14/23 01:44:58 pm	1.9450	38071	1.91		
Replicates		38496.8 38621.7 38087.9 37076.8					
MSD B	UNK	02/14/23 01:47:24 pm	1.9100	37408	2.61		
Replicates		36252.3 37094.0 37871.5 38413.3					
WDB0365-14	UNK	02/14/23 01:49:51 pm	-0.0368	603	19.16		
Replicates		764.8 647.2 542.5 456.6					
WDB0445-01	UNK	02/14/23 01:52:17 pm	-0.0713	-50	3.36		
Replicates		13.1 -47.7 -81.4 -84.5					
WDB0445-02	UNK	02/14/23 01:54:44 pm	-0.0744	-108	1.39		
Replicates		-82.5 -105.7 -115.6 -129.1					
MS3	UNK	02/14/23 01:57:11 pm	1.8590	36433	0.54		
Replicates		36189.2 36588.4 36579.6 36373.9					
MSD3	UNK	02/14/23 01:59:38 pm	-0.0716	-56	2.40		
Replicates		-49.7 -53.7 -20.2 -99.0					
MS C	UNK	02/14/23 02:02:05 pm	-0.0715	-54	2.97		
Replicates		-30.6 -110.1 -53.3 -20.3					
MSD C	UNK	02/14/23 02:04:32 pm	-0.0657	56	8.49		
Replicates		-70.3 10.0 150.0 136.1					
BLK	UNK	02/14/23 02:06:58 pm	-0.0305	721	19.86		
Replicates		854.8 759.7 684.4 584.2					
CK	UNK	02/14/23 02:09:25 pm	0.4882	10528	0.80		
Replicates		10429.0 10567.1 10596.9 10517.7					
WDB0485-01	UNK	02/14/23 02:11:52 pm	-0.0599	165	4.07		
Replicates		221.5 180.4 143.2 115.1					
WDB0485-02	UNK	02/14/23 02:14:18 pm	-0.0649	72	1.11		
Replicates		83.7 79.1 72.5 52.8					
WDB0485-03	UNK	02/14/23 02:16:45 pm	-0.0615	135	3.70		
Replicates		164.1 173.5 122.0 79.7					
WDB0485-04	UNK	02/14/23 02:19:11 pm	-0.0762	-142	1.22		
Replicates		-139.8 -129.7 -131.4 -167.6					
BLK	UNK	02/14/23 02:21:37 pm	-0.0524	307	3.85		
Replicates		346.9 313.5 313.0 255.1					
CK1	UNK	02/14/23 02:24:03 pm	0.4973	10699	0.89		
Replicates		10682.5 10791.3 10728.4 10592.9					
CK2	UNK	02/14/23 02:26:30 pm	2.2850	44497	1.66		
Replicates		44883.8 45087.9 44543.1 43474.2					
CK3	UNK	02/14/23 02:28:58 pm	5.6190	107510	1.47		
Replicates		108104.1 108878.7 107792.1 105265.4					

Sample Name	Type	Date/Time	Conc (ug/L)	µAbs	%RSD	Residual	Flags
WDB0365-03	UNK	02/14/23 02:45:36 pm	-0.0659	52	4.56		
Replicates		120.1 70.7 27.7 -12.1					
WDB0365-04	UNK	02/14/23 02:48:03 pm	-0.0763	-144	1.66		
Replicates		-115.6 -137.6 -149.8 -173.0					
WDB0365-05	UNK	02/14/23 02:50:31 pm	-0.0777	-172	1.24		
Replicates		-146.1 -180.1 -188.3 -172.1					
WDB0365-06	UNK	02/14/23 02:52:58 pm	-0.0738	-98	1.37		
Replicates		-77.6 -85.9 -110.8 -117.1					
MS A	UNK	02/14/23 02:55:25 pm	-0.0679	14	2.26		
Replicates		-6.3 -14.1 29.7 46.9					
MSDA	UNK	02/14/23 02:57:52 pm	1.9140	37483	0.84		
Replicates		37226.5 37780.3 37706.8 37216.9					
WDB0365-12	UNK	02/14/23 03:00:20 pm	-0.0560	240	8.80		
Replicates		345.1 277.0 212.3 126.8					
WDB0365-13	UNK	02/14/23 03:02:47 pm	-0.0695	-15	2.89		
Replicates		33.6 -4.5 -39.4 -50.6					
MSD3	UNK	02/14/23 03:05:14 pm	1.8910	37051	0.87		
Replicates		36595.5 37116.8 37297.1 37193.7					
MS C	UNK	02/14/23 03:07:41 pm	2.0210	39494	1.02		
Replicates		38938.5 39507.1 39768.9 39762.5					
MSD C	UNK	02/14/23 03:10:09 pm	2.0110	39310	1.83		
Replicates		39792.1 39827.8 39282.5 38337.9					
BLANK	UNK	02/14/23 03:12:35 pm	-0.0740	-101	4.04		
Replicates		-26.8 -92.4 -128.0 -158.1					
LCS	UNK	02/14/23 03:15:02 pm	1.9670	38489	1.52		
Replicates		38753.9 38980.1 38534.2 37687.6					
CK	UNK	02/14/23 03:25:09 pm	0.4839	10446	0.76		
Replicates		10350.1 10482.8 10507.8 10442.6					

Notes

Analyst:

Lamp Current:

High Standard mirco Abs:

Starting sequence Sun Feb 19 17:50:13 2023

Instrument Name: FID2

Sequence File: T:\Data3\FID2\2020SEQ\221207.S

Comment:

Operator: taz

Data Path: T:\DATA3\FID2\2023DATA\02FEB\19\

Method Path: T:\DATA3\FID2\AQUIMETH\

Line Type	Vial	DataFile	Method	Sample Name

This computer is now swap bound.				
1) Blank	1	00101001	2016HCID	rin
This computer is now swap bound.				
2) Calibration	2	00201002	2016HCID	500ppm Diesel
This computer is now swap bound.				
3) Calibration	3	00301003	2016HCID	1000ppm Diesel
This computer is now swap bound.				
4) Calibration	4	00401004	2016HCID	2000ppm Oil and Gas
This computer is now swap bound.				
5) Blank	5	00501005	2016HCID	BDB0569-BLK1
This computer is now swap bound.				
6) Spike	6	00601006	2016HCID	BDB0569-BS1
This computer is now swap bound.				
7) Spike	7	00701007	2016HCID	BDB0569-BSD1
This computer is now swap bound.				
8) Sample	8	00801008	2016HCID	WDB0365-01
This computer is now swap bound.				
9) Sample	9	00901009	2016HCID	WDB0365-02
This computer is now swap bound.				
10) Sample	10	01001010	2016HCID	WDB0365-03
This computer is now swap bound.				
11) Sample	11	01101011	2016HCID	WDB0365-04
This computer is now swap bound.				
12) Sample	12	01201012	2016HCID	WDB0365-05
This computer is now swap bound.				
13) Sample	13	01301013	2016HCID	WDB0365-06
This computer is now swap bound.				
14) Sample	14	01401014	2016HCID	WDB0365-07
This computer is now swap bound.				
15) Calibration	3	00301015	2016HCID	1000ppm Diesel
This computer is now swap bound.				
16) Calibration	4	00401016	2016HCID	2000ppm Oil and Gas
This computer is now swap bound.				
17) Sample	15	01501017	2016HCID	WDB0365-08
This computer is now swap bound.				
18) Sample	16	01601018	2016HCID	WDB0365-09
This computer is now swap bound.				
19) Sample	17	01701019	2016HCID	WDB0365-10
This computer is now swap bound.				

20) Sample 18 01801020 2016HCID WDB0365-11
 This computer is now swap bound.
 21) Sample 19 01901021 2016HCID WDB0365-12
 This computer is now swap bound.
 22) Sample 20 02001022 2016HCID WDB0365-13
 This computer is now swap bound.
 23) Sample 21 02101023 2016HCID WDB0365-14
 This computer is now swap bound.
 24) Spike 22 02201024 2016HCID BDB0569-MS1
 This computer is now swap bound.
 25) Spike 23 02301025 2016HCID BDB0569-MSD1
 This computer is now swap bound.
 26) Sample 24 02401026 2016HCID WDB0365-15
 This computer is now swap bound.
 27) Calibration 3 00301027 2016HCID 1000ppm Diesel
 This computer is now swap bound.
 28) Calibration 4 00401028 2016HCID 2000ppm Oil and Gas
 This computer is now swap bound.
 29) Sample 25 02501029 2016HCID WDB0485-01
 This computer is now swap bound.
 30) Sample 26 02601030 2016HCID WDB0485-02
 This computer is now swap bound.
 31) Sample 27 02701031 2016HCID WDB0485-03
 This computer is now swap bound.
 32) Sample 28 02801032 2016HCID WDB0485-04
 This computer is now swap bound.
 33) Calibration 3 00301033 2016HCID 1000ppm Diesel
 This computer is now swap bound.
 34) Calibration 4 00401034 2016HCID 2000ppm Oil and Gas

Sequence completed Mon Feb 20 13:22:25 2023

T:\DATA3\FID2\2023DATA\02FEB\19\2023 Feb 19 1750 Quality Log.LOG
 T:\DATA3\FID2\2023DATA\02FEB\19\2023 Feb 19 1750 Sequence Log .LOG



QC Checklist for TPH-D & HCID-NWTPH-D & NWTPH-HCID-EPA 8015D

Analysis Date: 2/19/23

<input checked="" type="checkbox"/>	QC Parameter	Acceptance Criteria	Frequency	Notes
<input checked="" type="checkbox"/>	Initial Calibration	±15%	At least 5 points	
<input checked="" type="checkbox"/>	Surrogate Recovery	50-150%	All samples	
<input checked="" type="checkbox"/>	ICV/QCS	±15%	Each instrument run	
<input checked="" type="checkbox"/>	Blanks	<1/2 MRL	1 per batch	
<input checked="" type="checkbox"/>	CCV	85-115%	Initial, every 12 hours of runtime, and end of run	
<input checked="" type="checkbox"/>	LFB	70-130%	1:10 field samples	
<input checked="" type="checkbox"/>	MS	70-130%	1 per batch, when sample is available	
<input checked="" type="checkbox"/>	Duplicate (LFB/D/MSD/SD)	RPD ≤ 20%	1 per batch	
<input checked="" type="checkbox"/>	Cal Prep Form Present			
<input checked="" type="checkbox"/>	pH	<u>pH < 2</u>	All samples	
	Dilutions Noted?			

Comments:

Analyst: Jerry

Checklist Completed Date: 2/21/23

Reviewed By: [Signature]

Date: 2/21/23



Anatek Labs, Inc

1282 Alturas Drive

Moscow, ID 83843

Calibration Standard Preparation Form

TPHDx/HCID

	Diesel	Oil	Gasoline	Kerosene
Calibration Stock Standard Number:	2203081	2203094	2203095	M429-02
Calibration Stock Standard Concentration:	50 mg/mL	20 mg/mL	20 mg/mL	20 mg/mL
Calibration Stock Standard Expiration Date:	07/31/2028	06/30/2028	05/31/2028	7/2023

Dilution Template

Desired Concentration	Stock Concentration	μ l Standard Added	Final Volume (mL)	Units of Concentration
Diesel Prepared: 9/15/2022 MeCl Lot Used: 2202804				
50	50,000	1	1.0	ppm
250	50,000	5	1.0	ppm
500	50,000	10	1.0	ppm
1000	50,000	20	1.0	ppm
2500	50,000	50	1.0	ppm
Oil Prepared: 9/15/2022 MeCl Lot Used: 2202804				
100	20,000	5	1.0	ppm
500	20,000	25	1.0	ppm
1000	20,000	50	1.0	ppm
2000	20,000	100	1.0	ppm
4000	20,000	200	1.0	ppm
Gasoline Prepared: 9/15/2022 MeCl Lot Used: 2202804				
100	20,000	5	1.0	ppm
500	20,000	25	1.0	ppm
1000	20,000	50	1.0	ppm
2000	20,000	100	1.0	ppm
4000	20,000	200	1.0	ppm
Kerosene Prepared: MeCl Lot Used:				
50	20,000	2.5	1.0	ppm
250	20,000	12.5	1.0	ppm
500	20,000	25	1.0	ppm
1000	20,000	50	1.0	ppm
2500	20,000	125	1.0	ppm

NOTE: Hexacosane SUR (2202969; 5000 ppm) and Pentacosane IS (2202970; 5000 ppm) were added to all calibration standards at 10 μ L/ml or 50 ppm

QC Sample Preparation Template

Matrix	Desired Concentration	Stock Concentration	μ L Standard Added	Final Volume (mL)	Units of Concentration
Water	0.5	50,000	10 μ L /1L	1	ppm
Solids	100	50,000	10 μ L /5g sample	1	ppm

QC Type: LFB

Matrix	Desired Concentration	Stock Concentration	μ L Standard Added	Final Volume (mL)	Units of Concentration
Water	0.5	50,000	10 μ L /1L	1	ppm
Solids	100	50,000	10 μ L /5g sample	1	ppm

Analyst Initials: Janz

Form CD05.02 – Eff 14 Nov 2016

PREPARATION BENCH SHEET

Organics

BDB0569

Matrix: Water

Prepared using: SVOC - W TPH-~~dx~~

Analyses W HCID Low Level	Spiking Solution(s) 220 3160	Surrogate Solution(s) 2202969 Hexacosane 5000PPM
-------------------------------------	--	--

Lab Number	Sample and Source ID	Pre-Wt	Post-Wt	Initial (mL)	Prepared - By	Final (mL)	ul Spike	ul Surrogate	Extraction Comments
BDB0569-BLK1	Blank				2/17/23 10:48 TAZ	1		10	
BDB0569-BS1	LCS				2/17/23 10:48 TAZ	1		10	
BDB0569-MS1	Matrix Spike [WDB0365-11]				2/17/23 10:48 TAZ	1		10	
BDB0569-MS2	Matrix Spike [WDB0365-14]			569	2/17/23 10:48 TAZ	1		10	
WDB0365-01	DW-2			989	2/17/23 10:48 TAZ	1		10	
WDB0365-02	DW-3			1040	2/17/23 10:48 TAZ	1		10	
WDB0365-03	D-2			891	2/17/23 10:48 TAZ	1		10	
WDB0365-04	D-3			1026	2/17/23 10:48 TAZ	1		10	
WDB0365-05	D-4			1035	2/17/23 10:48 TAZ	1		10	
WDB0365-06	D-5			1013	2/17/23 10:48 TAZ	1		10	
WDB0365-07	DW-1/WW-1			964	2/17/23 10:48 TAZ	1		10	
WDB0365-08	WW-2			1074	2/17/23 10:48 TAZ	1		10	
WDB0365-09	U-3/WW-4			1038	2/17/23 10:48 TAZ	1		10	
WDB0365-10	U-2/WW-5 WET			1016	2/17/23 10:48 TAZ	1		10	
WDB0365-11	WW-6			1044	2/17/23 10:48 TAZ	1		10	
WDB0365-12	WW-3			1032	2/17/23 10:48 TAZ	1		10	
WDB0365-13	E-2			829	2/17/23 10:48 TAZ	1		10	
WDB0365-14	E-1			1053	2/17/23 10:48 TAZ	1		10	
WDB0365-15	E-1 DUP			1034	2/17/23 10:48 TAZ	1		10	
WDB0485-01	D-6			991	2/17/23 10:48 TAZ	1		10	
WDB0485-02	D-7			952	2/17/23 10:48 TAZ	1		10	
WDB0485-03	D-8			996	2/17/23 10:48 TAZ	1		10	
WDB0485-04	U-1/WW-7			1000	2/17/23 10:48 TAZ	1		10	

* split 468

Spiking Performed By Jerry Date 2/21/23

PREPARATION BENCH SHEET

Organics

BDB0569

(Continued)

Matrix: Water

Prepared using: SVOC - W TPH-Dx

Analyses

W HCID Low Level

Spiking Solution(s)

Surrogate Solution(s)

2202969 Hexacosane 5000PPM

Run Date: _____

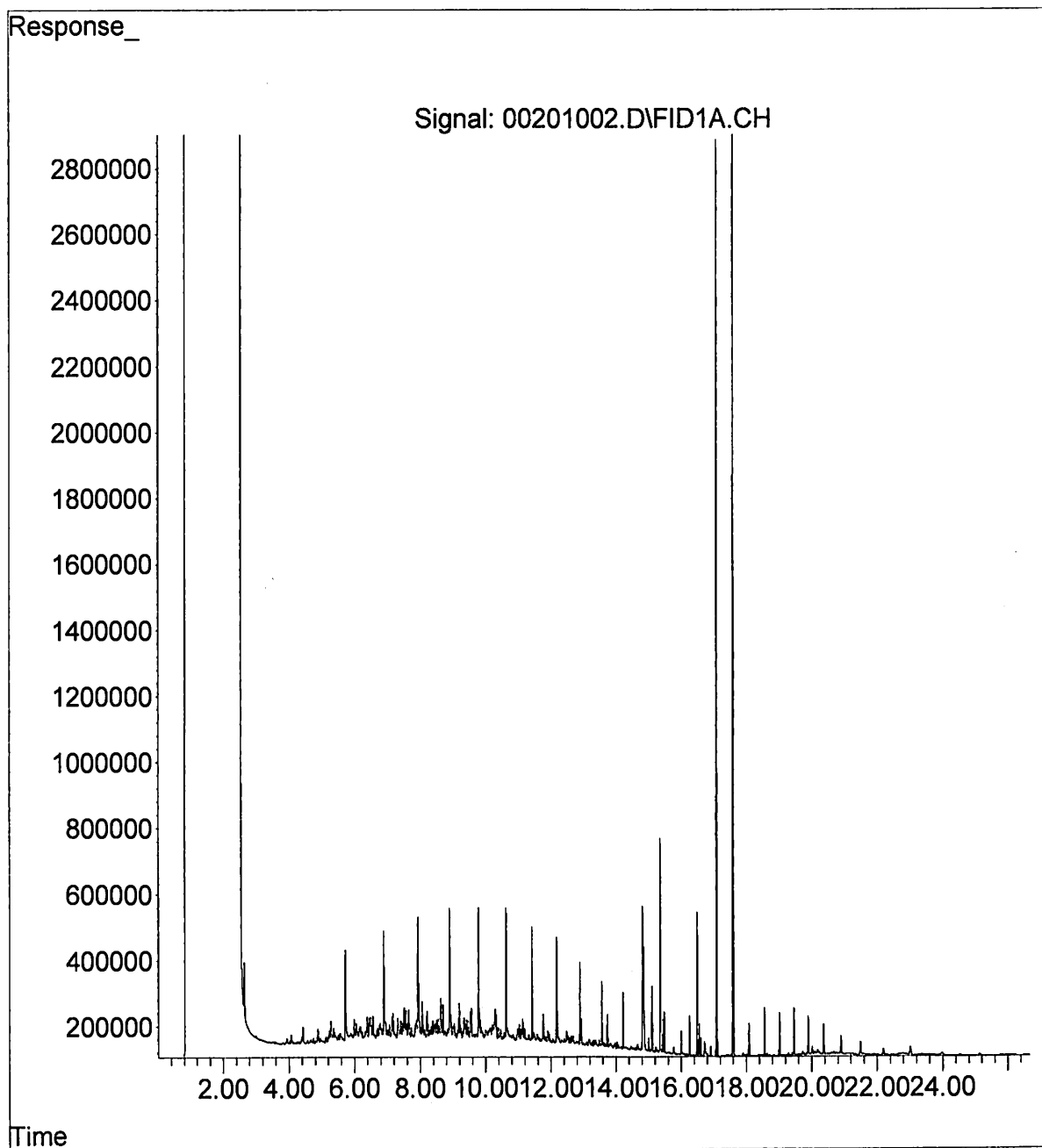
Support Equipment:

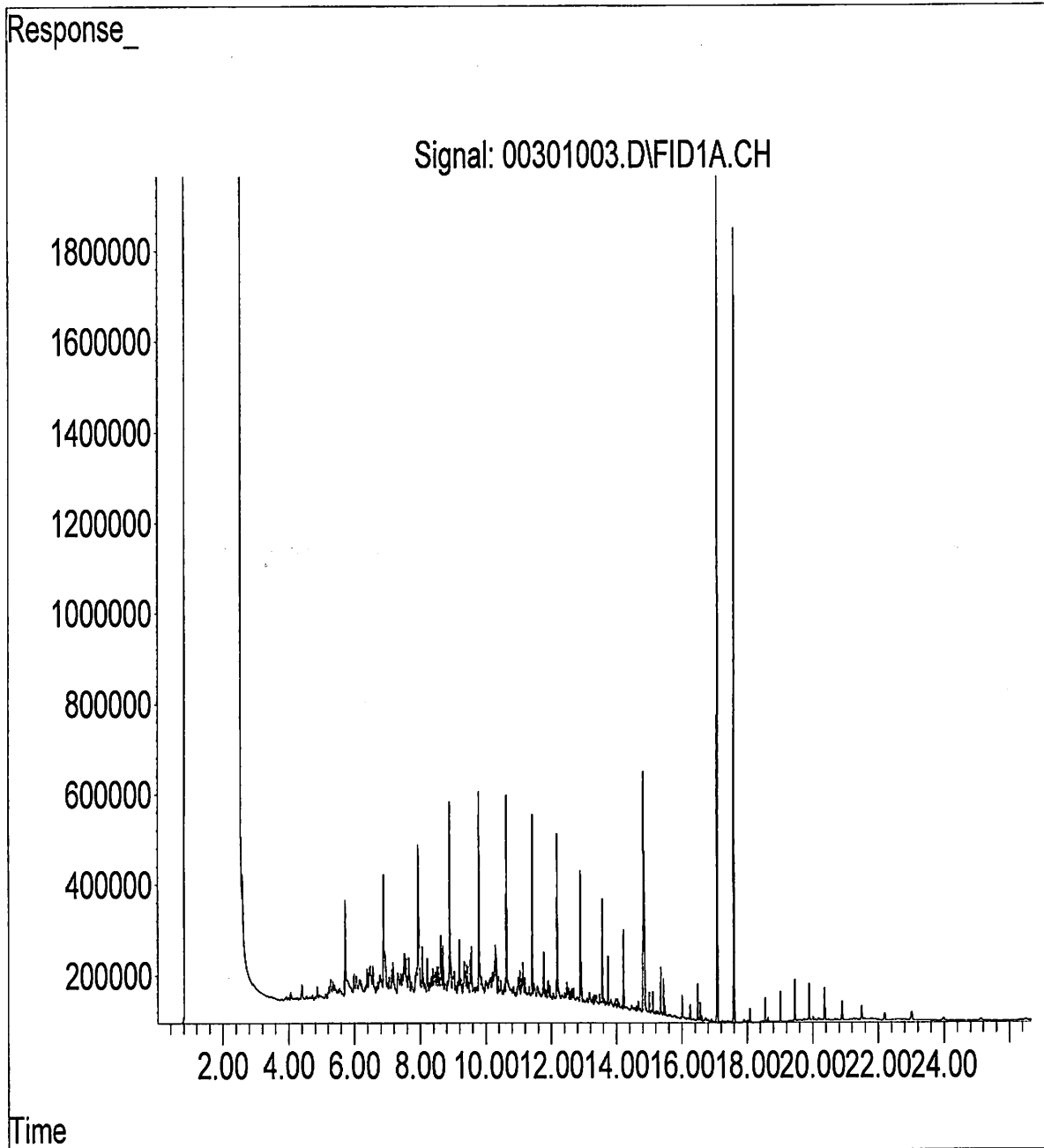
Reagents

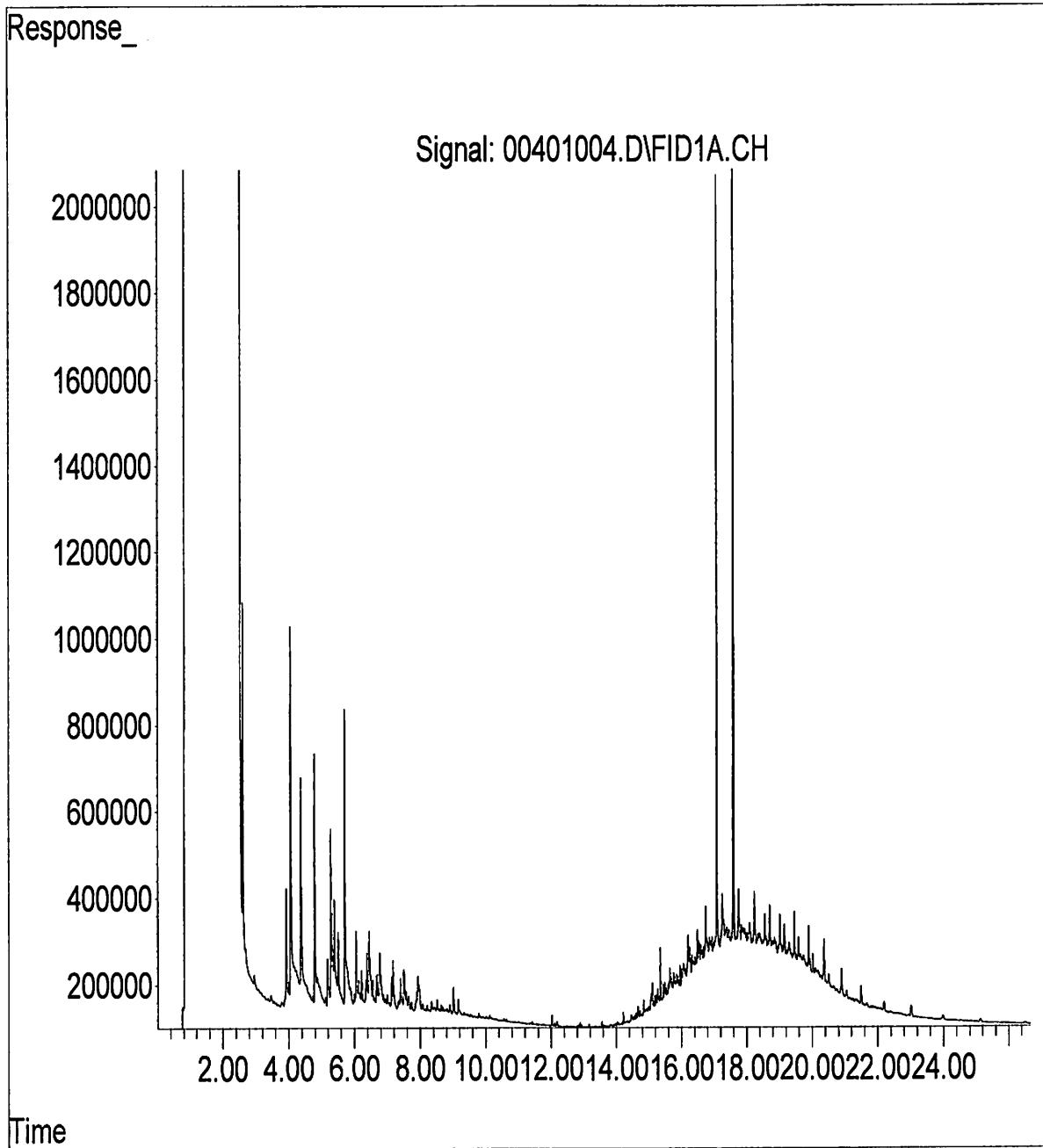
<u>Standard</u>	<u>Description</u>	<u>LotNum</u>
-----------------	--------------------	---------------

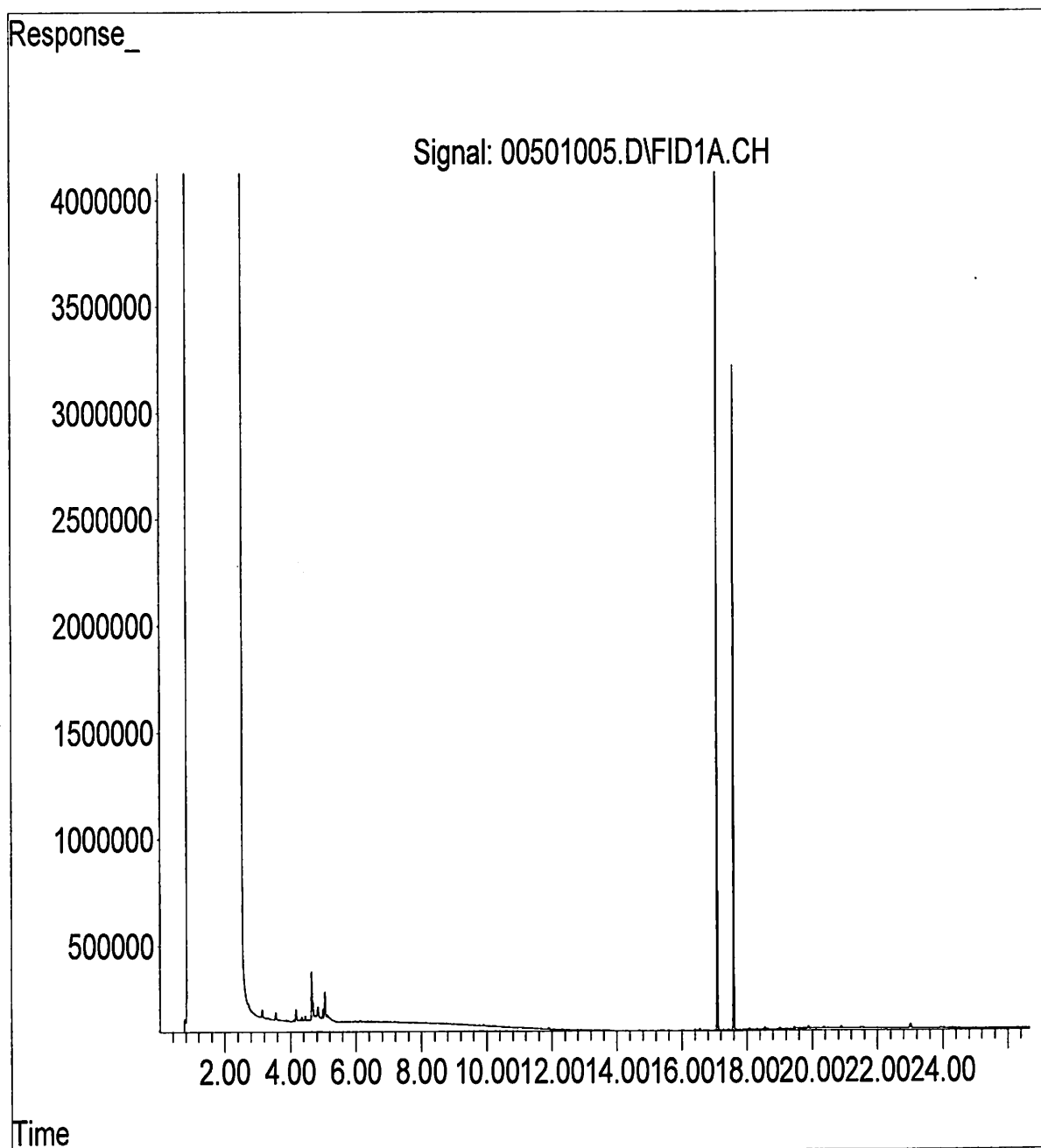
Bal-04

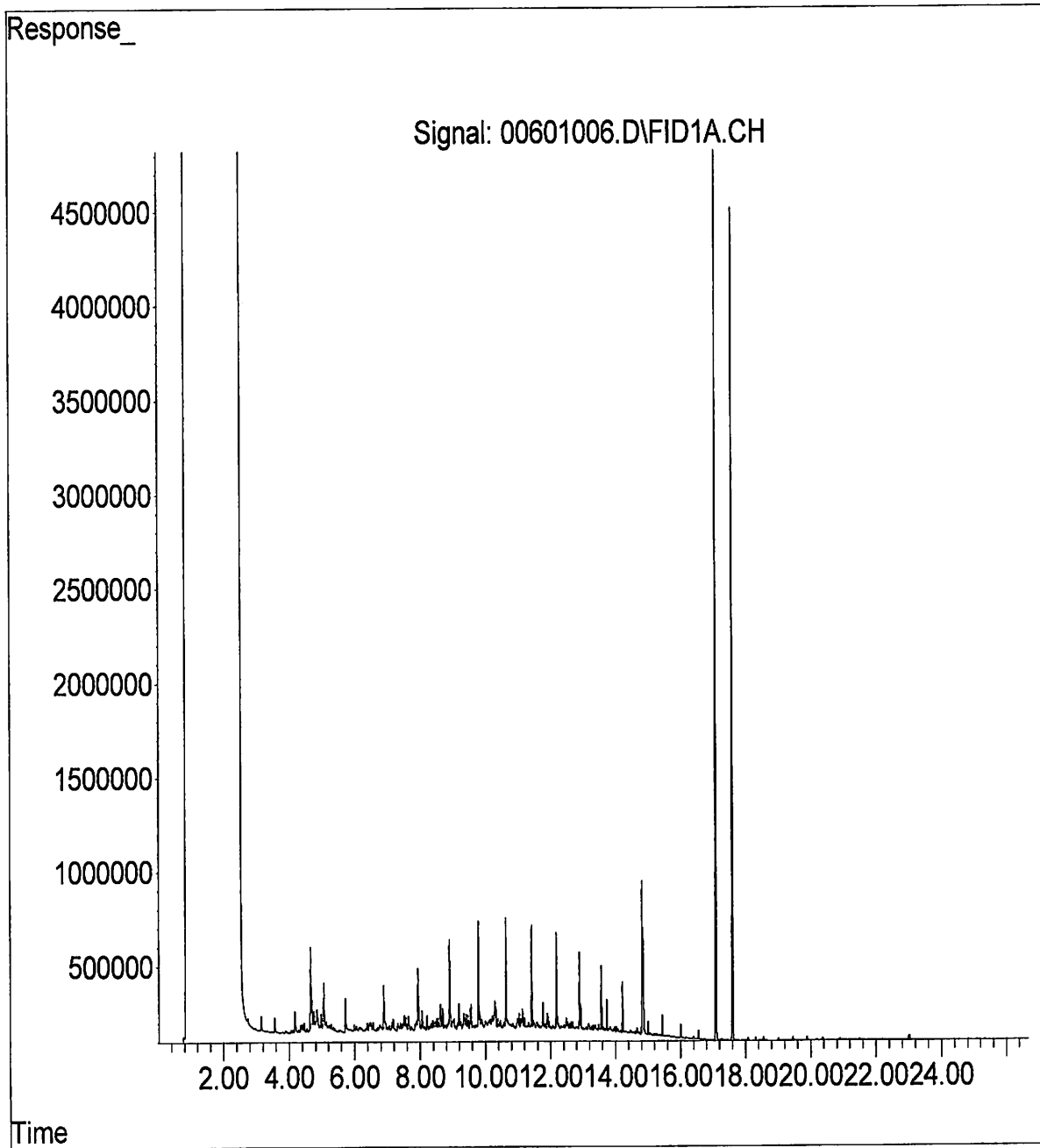
Pentacosane 2202970
MeCl₂ 2300161
H₂SO₄ 2204320

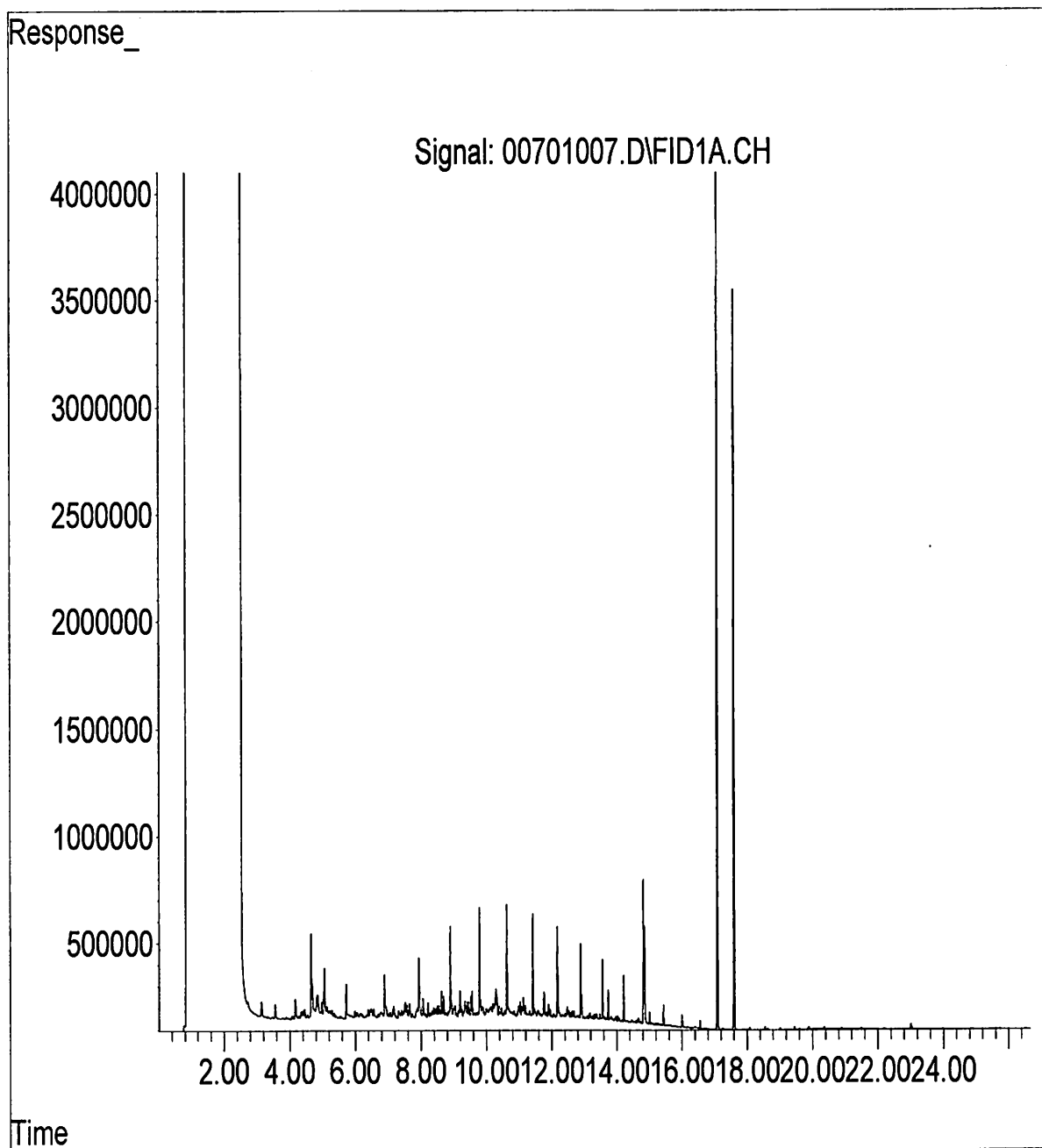


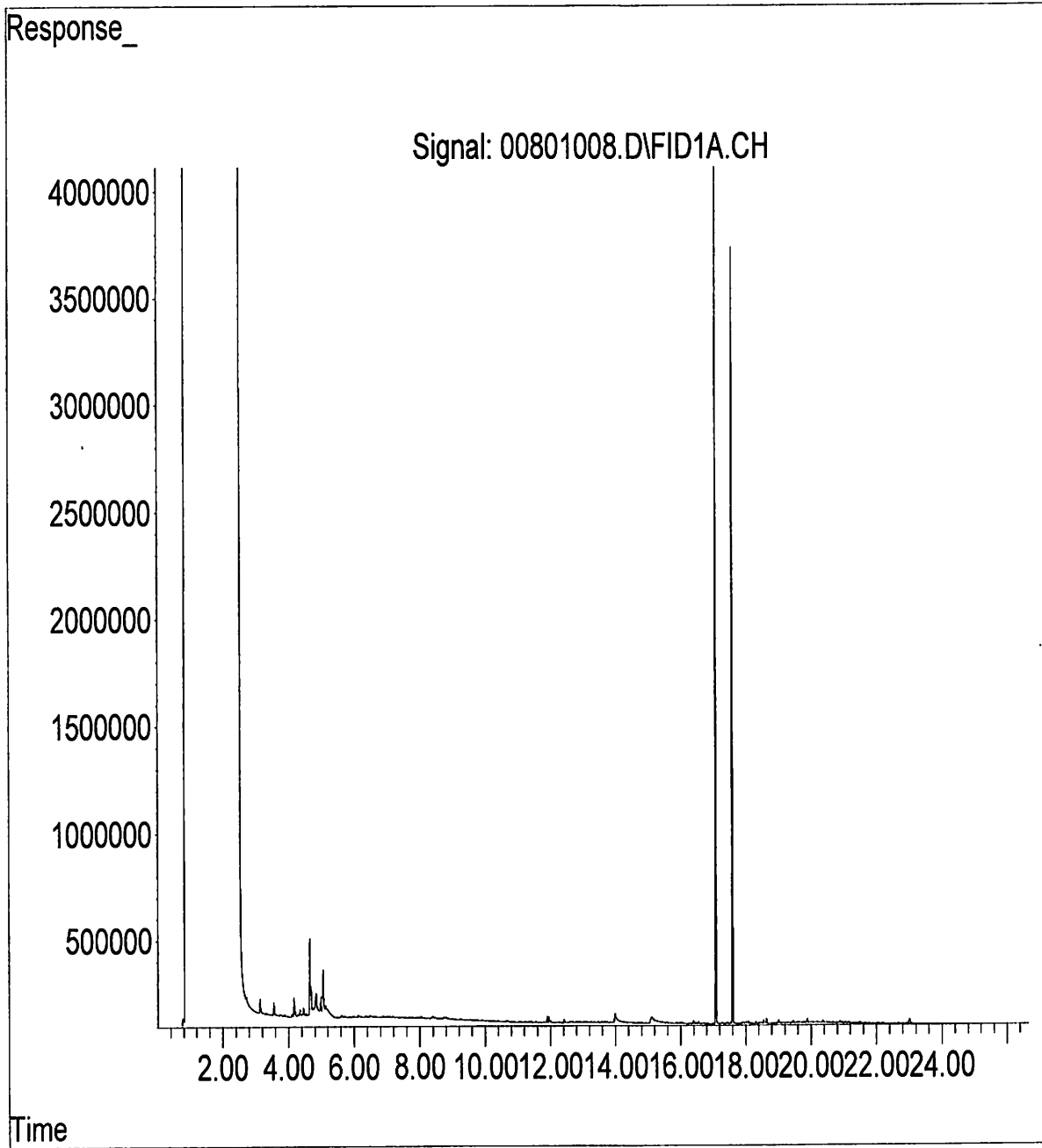


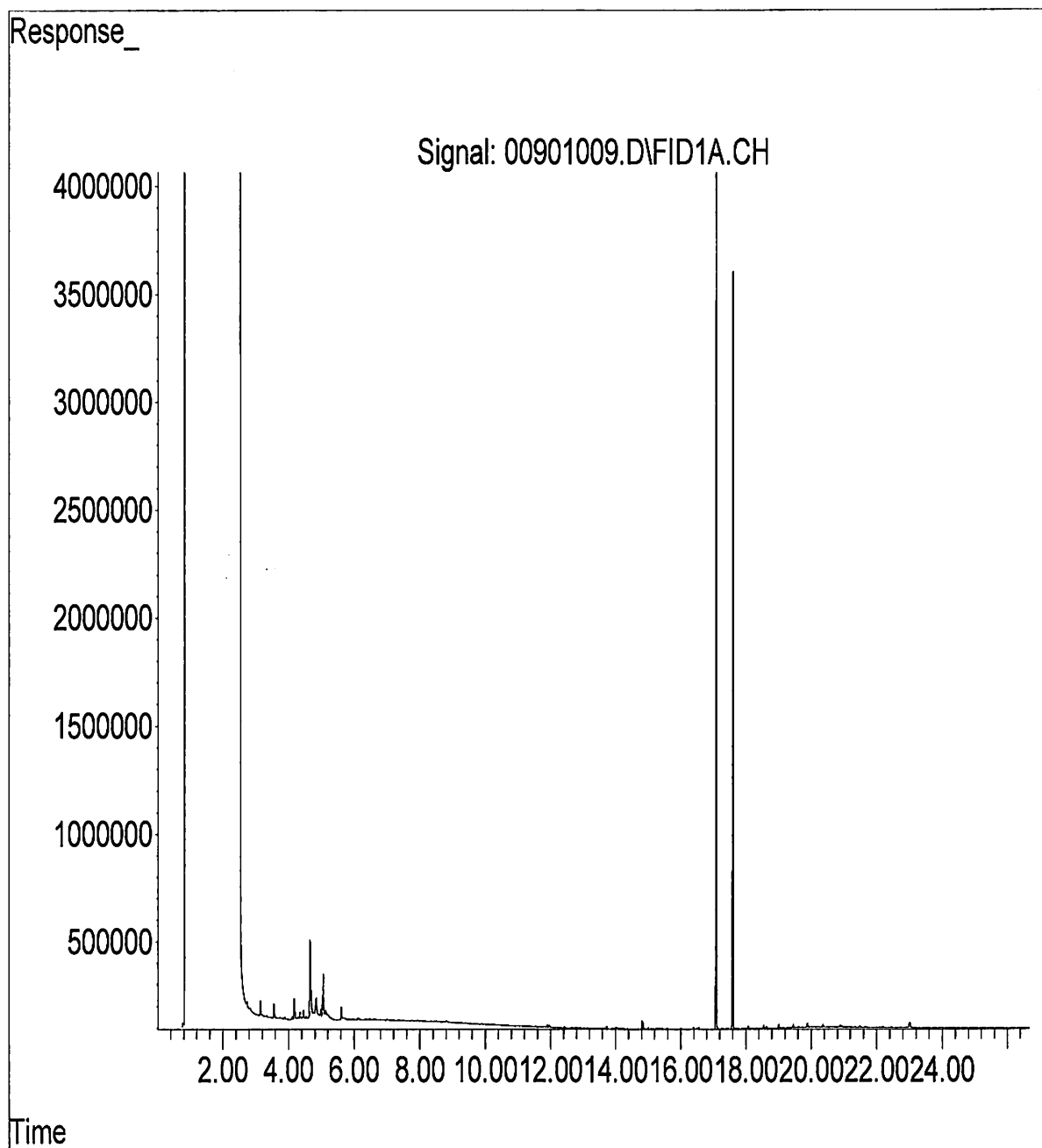


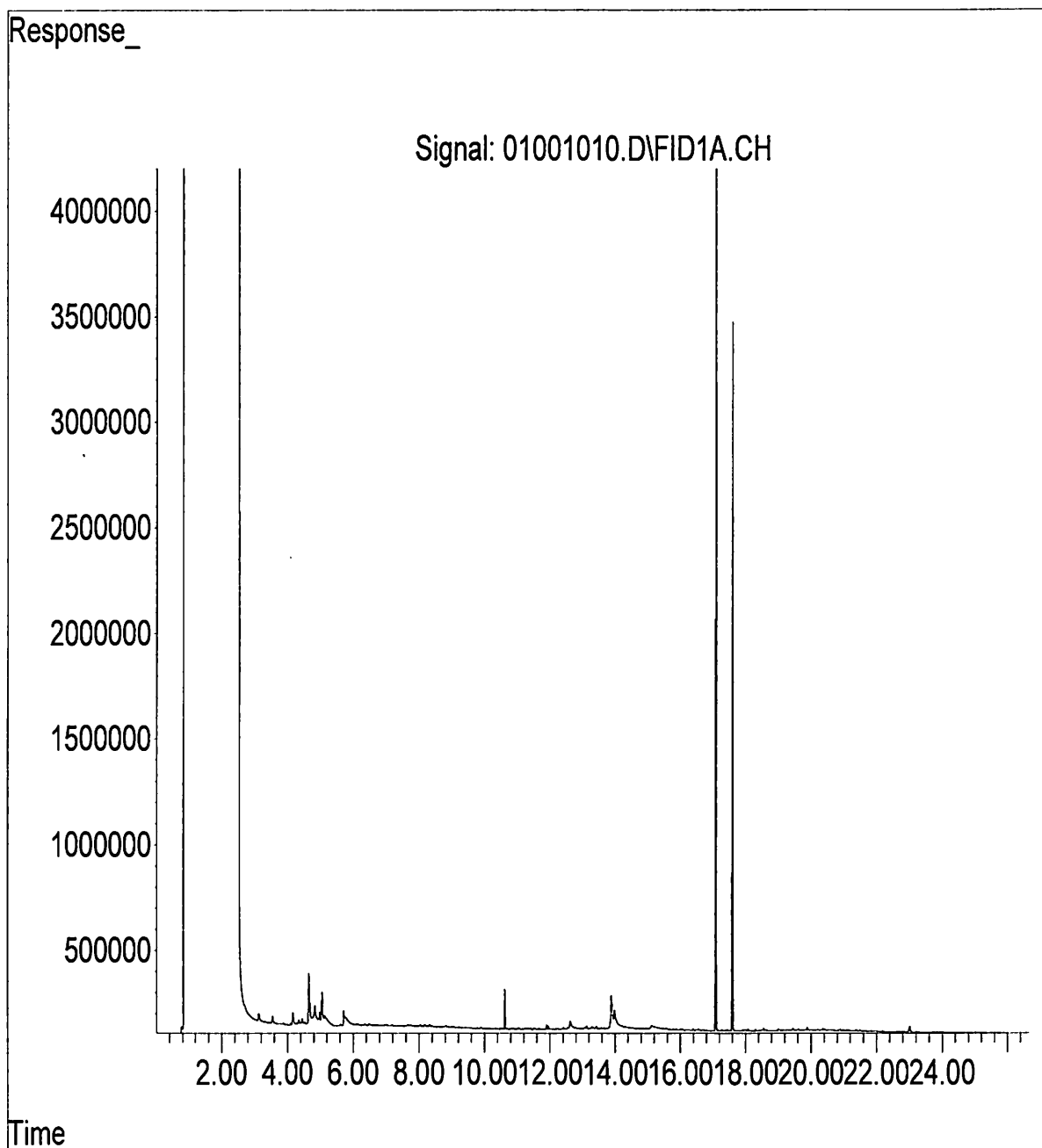


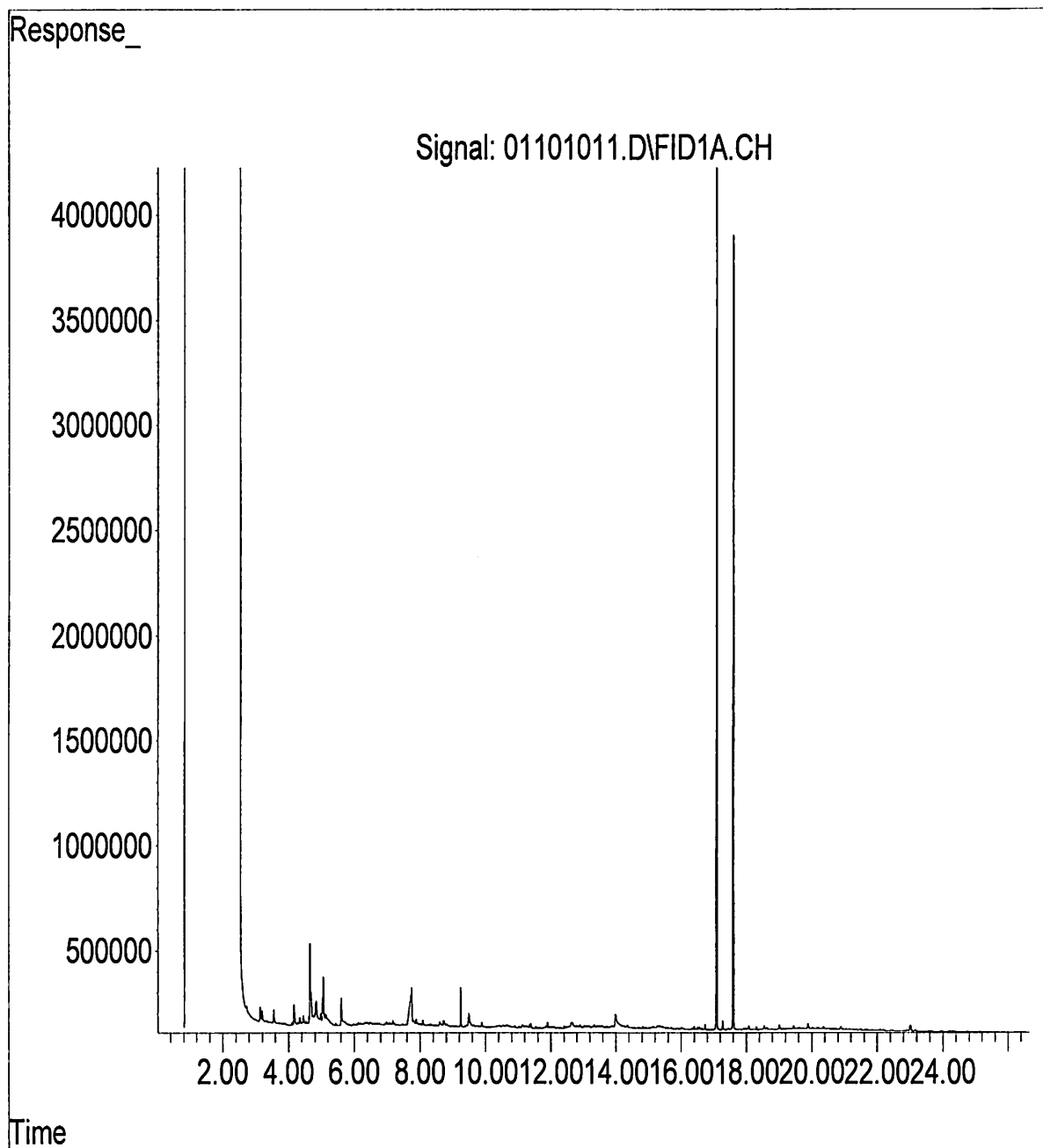


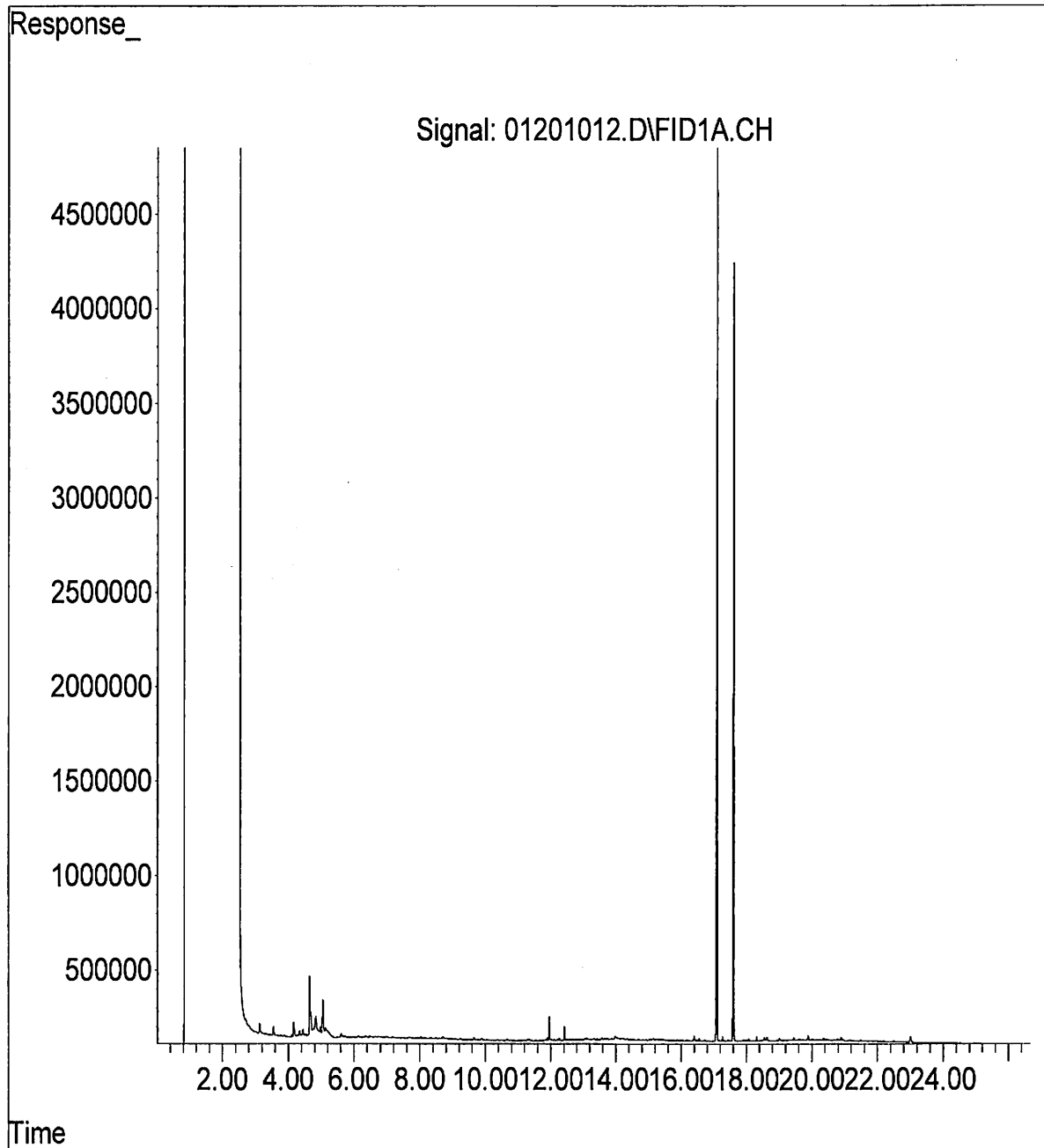


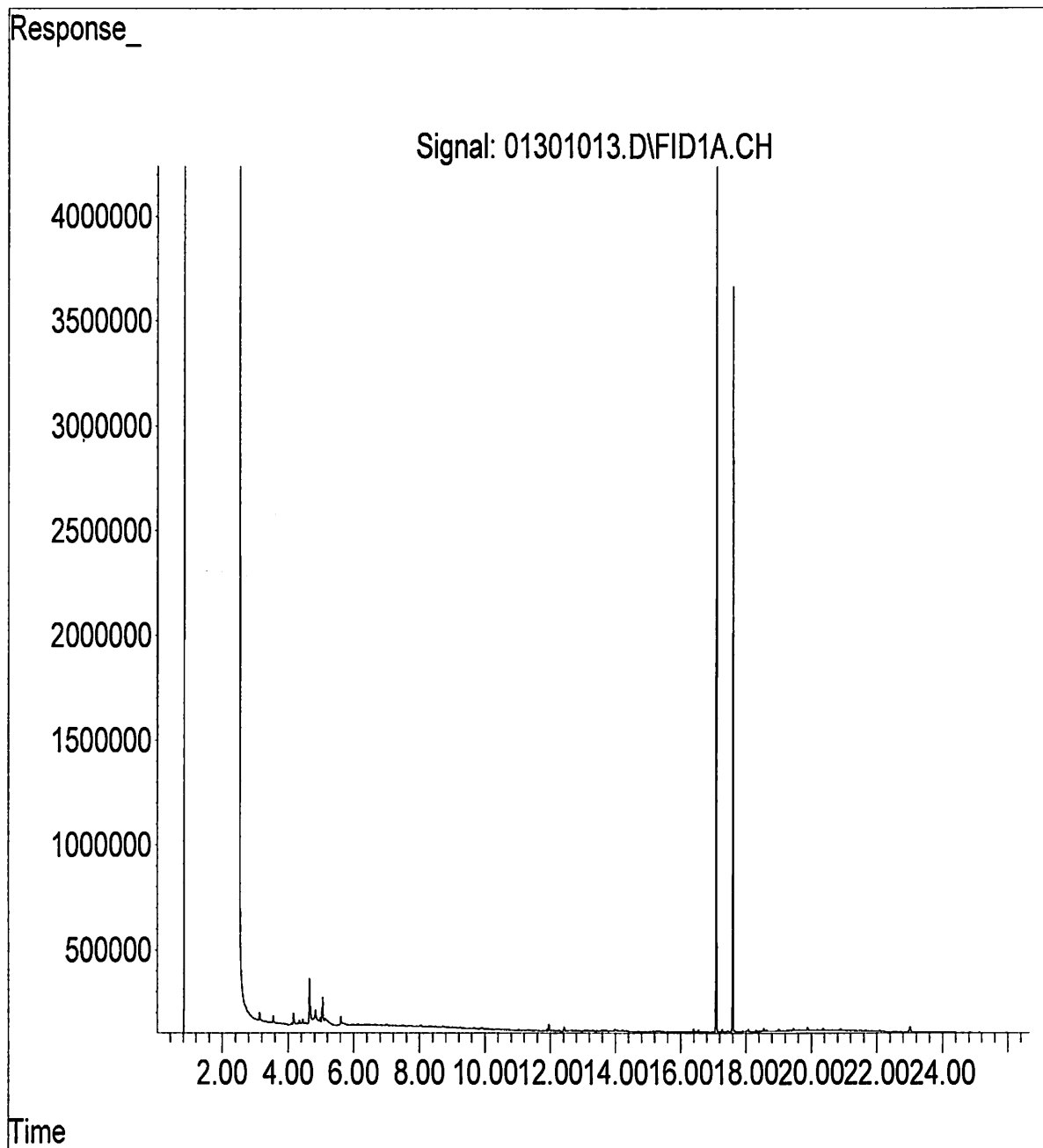


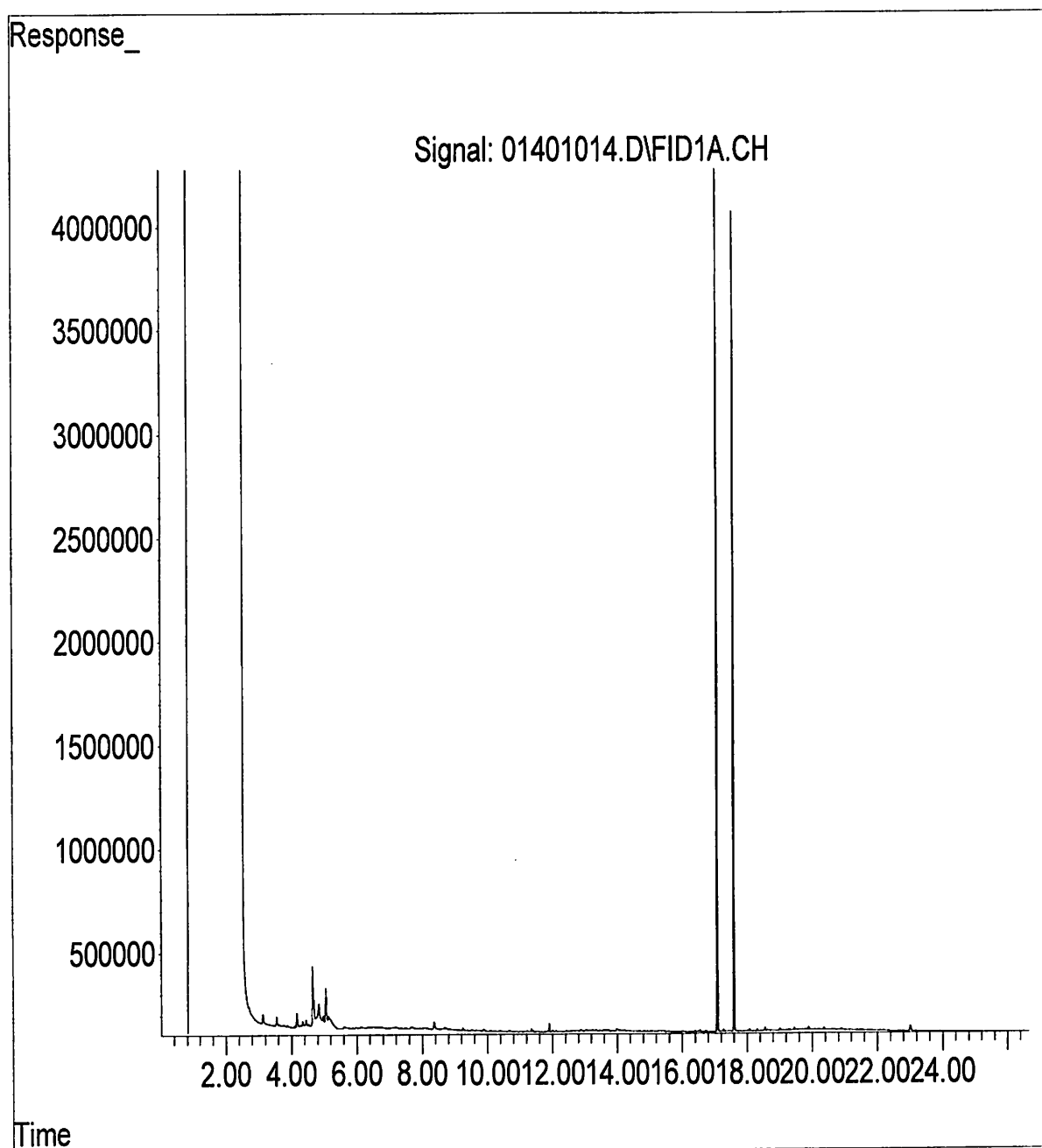










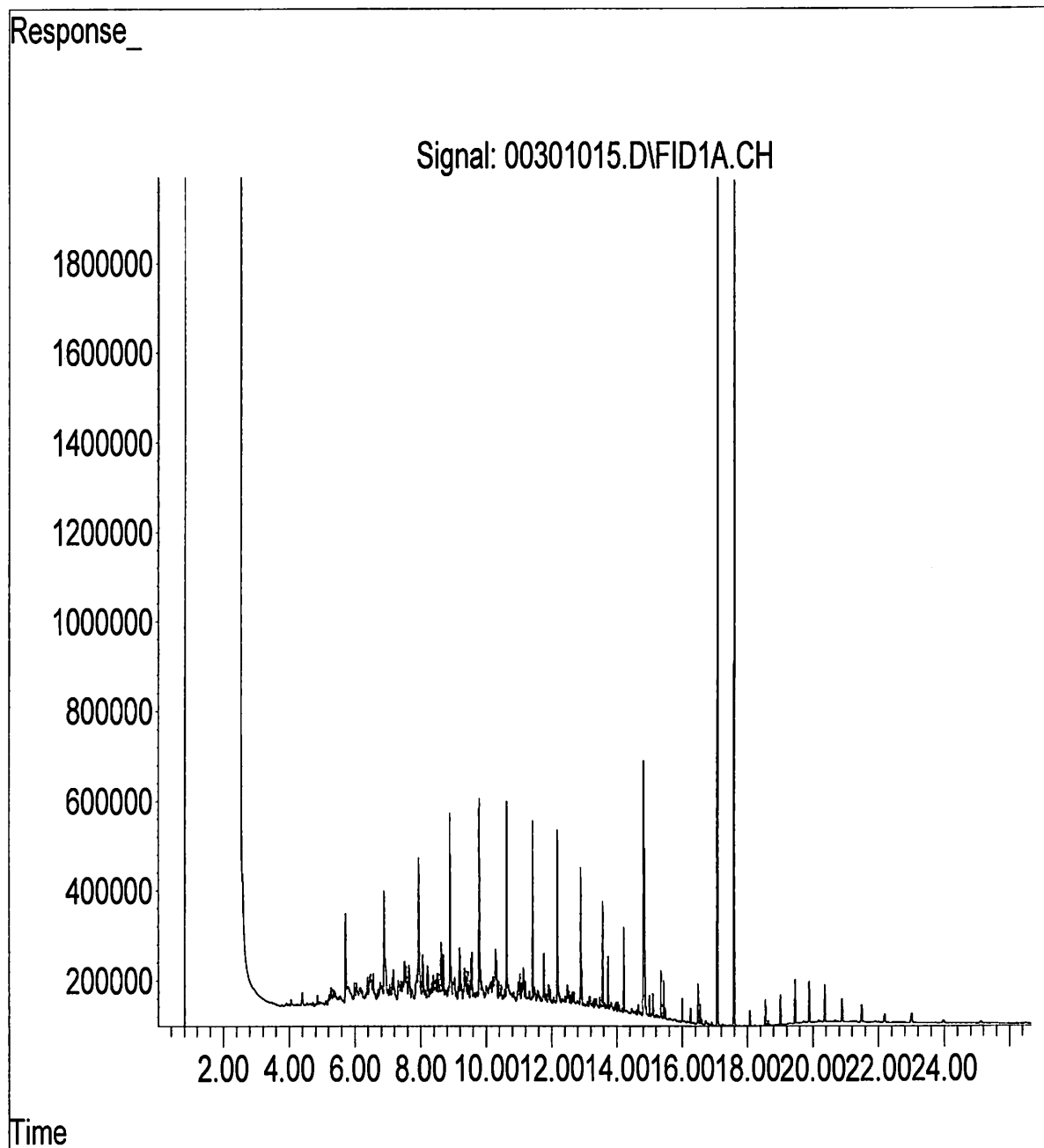


Data Path: T:\Data3\FID2\2023DATA\02FEB\19\
 Data File: 00301015.D
 Signal(s): \FID1A.CH
 Acq On: 20 Feb 2023 1:56 am
 Operator: taz
 Sample: 1000ppm Diesel
 Misc: 0

Vial: 3 Sample Multiplier: 1

Quant Time: Mon Feb 20 02:23:38 2023
 Quant Method: T:\Data3\FID2\2021METHODS\220916THPDx.M
 Quant Title: NWTPH-HCID-EPA 8015B
 QLast Update: Fri Dec 23 10:08:12 2022
 Integrator: MSD ChemStation E.02.02.1431 Copyright © 1989-2011 Agilent Technologies, Inc.

Compund	R.T.	Response	Conc
Internal Standards			
1) Pentacosane	17.09	22897300	50.00 ppm
System Monitoring Compunds			
6) Hexacosane	17.60	22010300	48.98 ppm
Target Compounds			
2) TPH Gasoline	0.00	0	0.000 ppm
4) TPH Diesel	11.13	361282000	974.695 ppm
5) TPH Waste Oil	0.00	0	0.000 ppm
3) TPH Kerosene	0.00	0	0.000 ppm

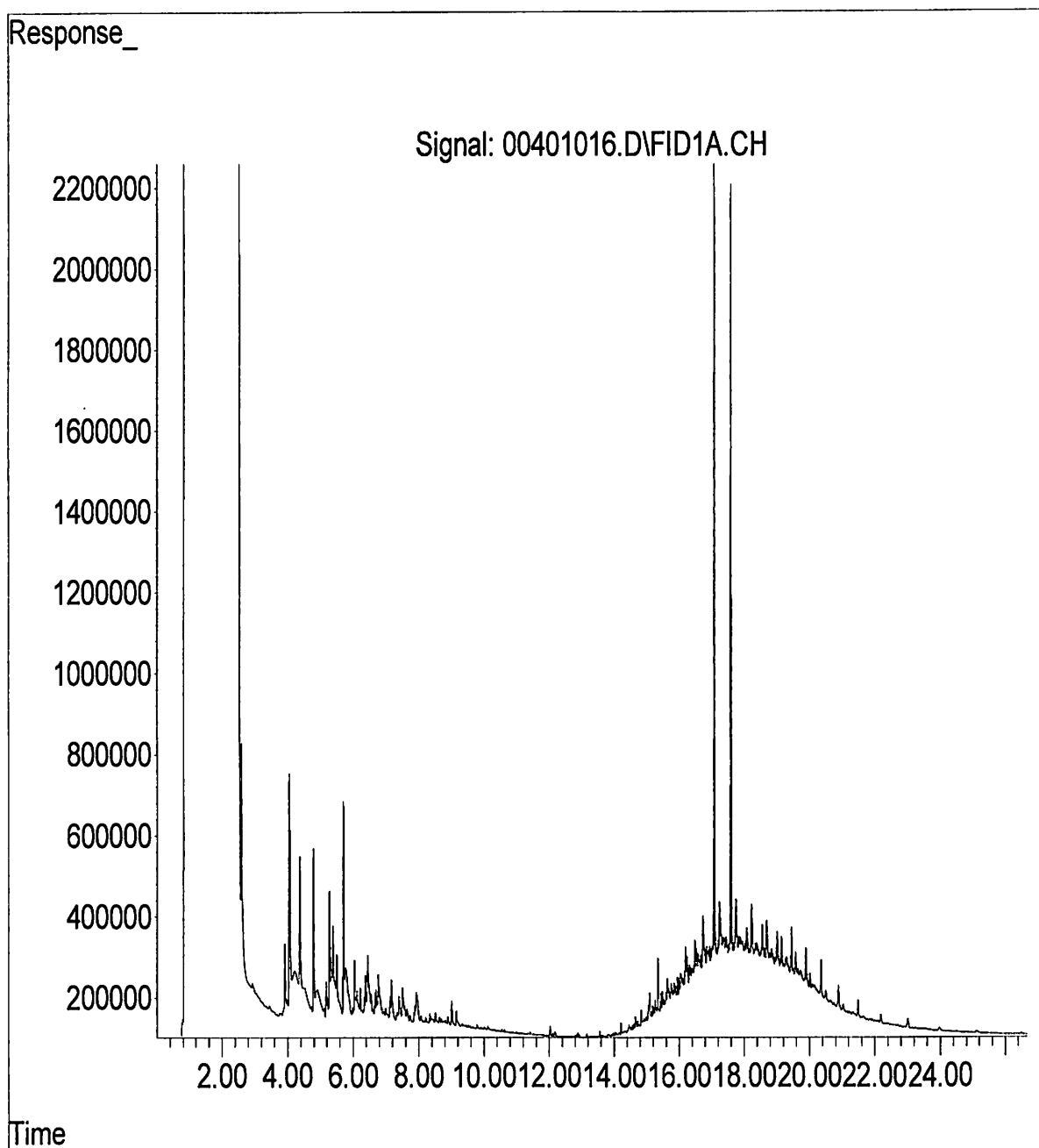


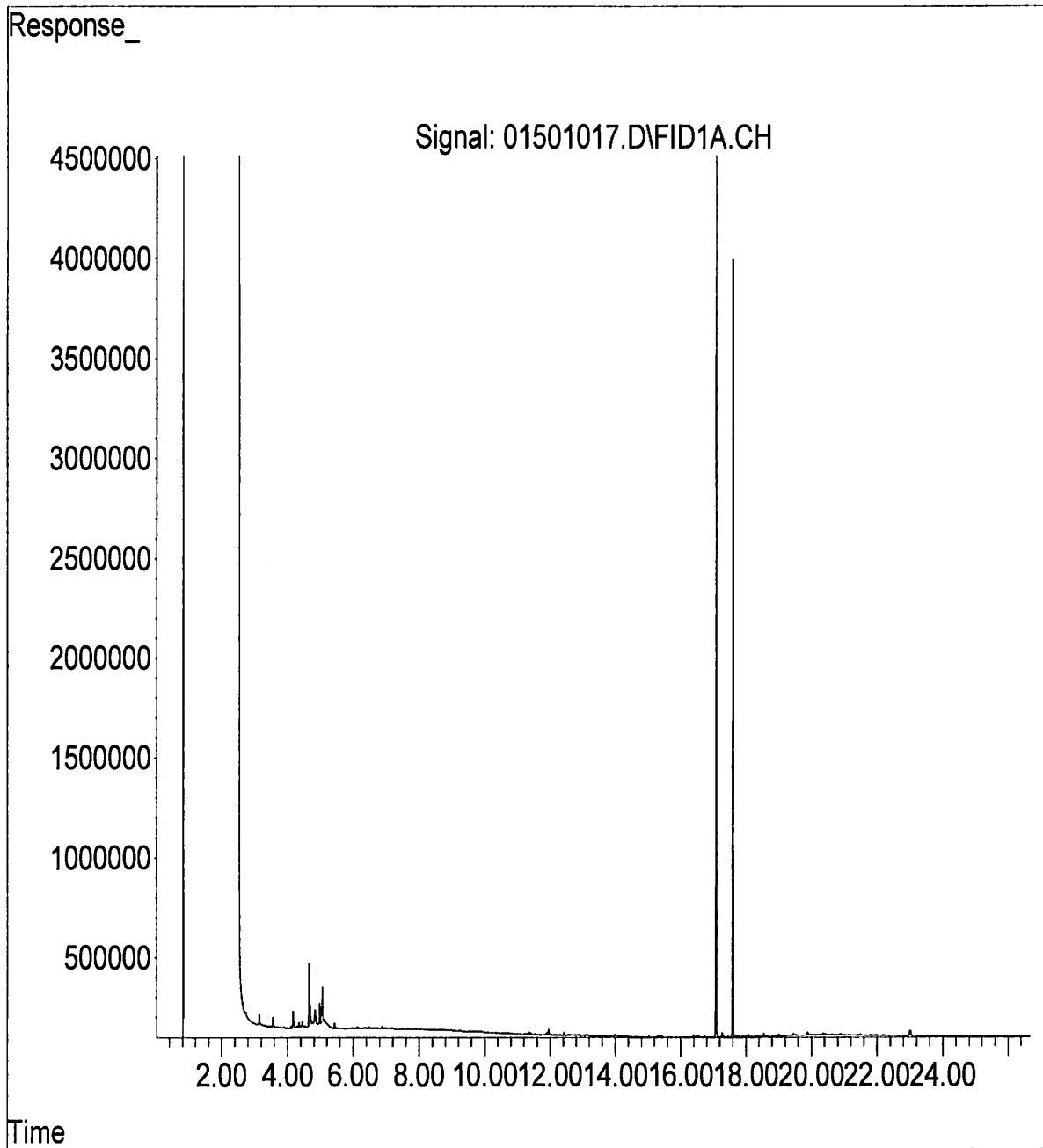
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 Signal(s): \FID1A.CH
 Acq On: 20 Feb 2023 2:31 am
 Operator: taz
 Sample: 2000ppm Oil and Gas
 Misc: 0

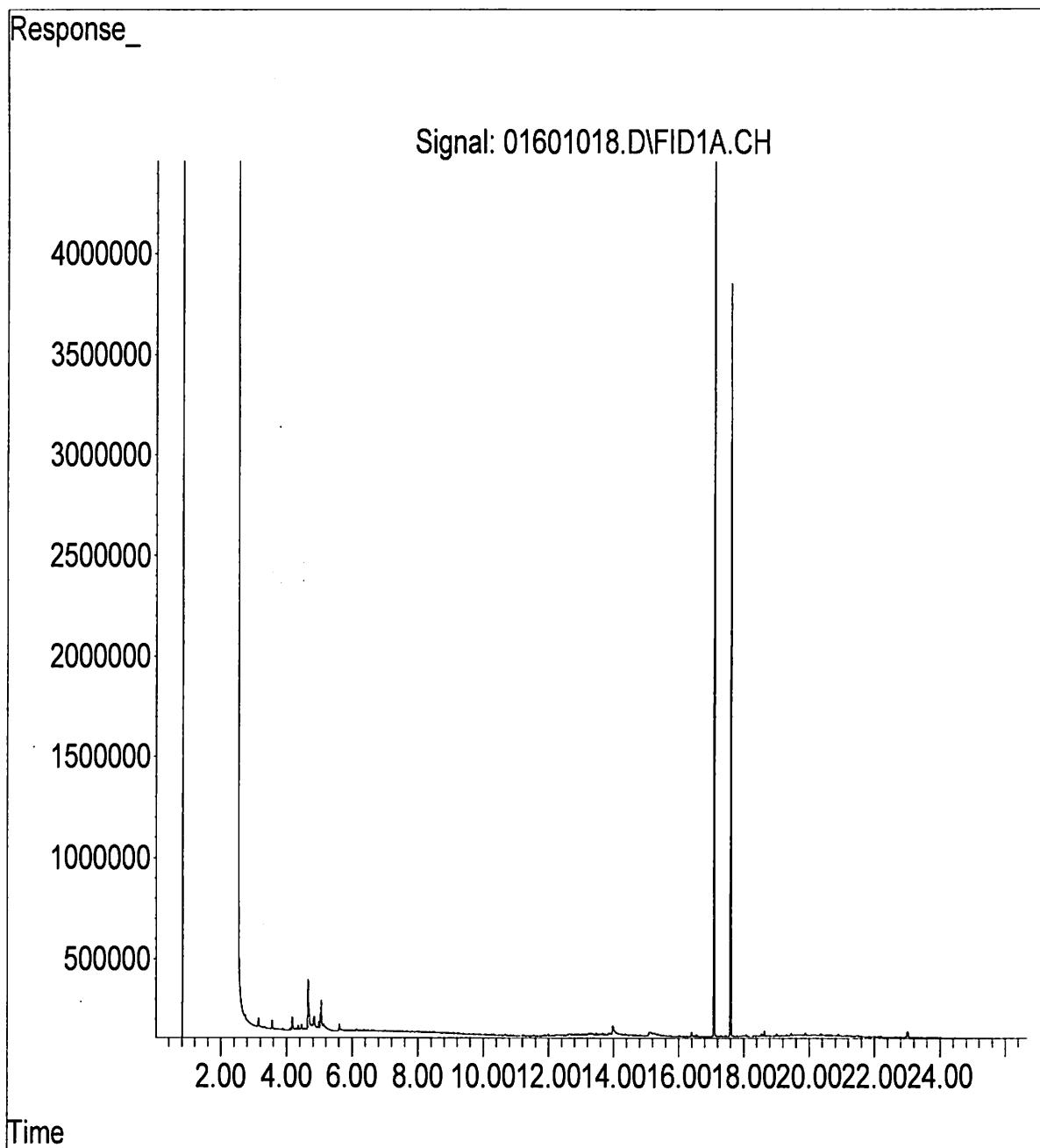
Vial: 4 Sample Multiplier: 1

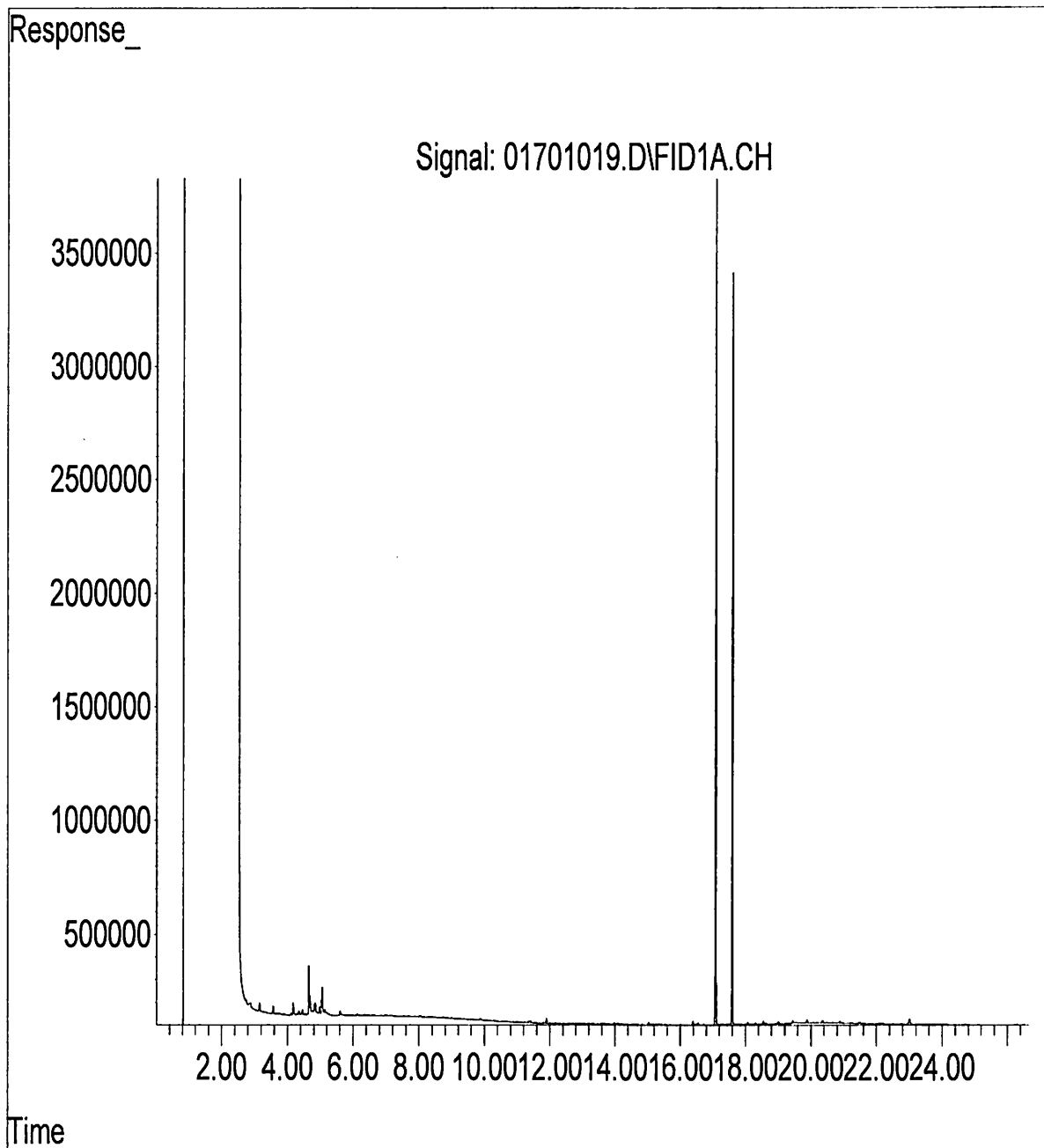
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 Quant Title: NWTPH-HCID-EPA 8015B
 QLast Update: Fri Dec 23 10:08:12 2022
 Integrator: MSD ChemStation E.02.02.1431 Copyright © 1989-2011 Agilent Technologies, Inc.

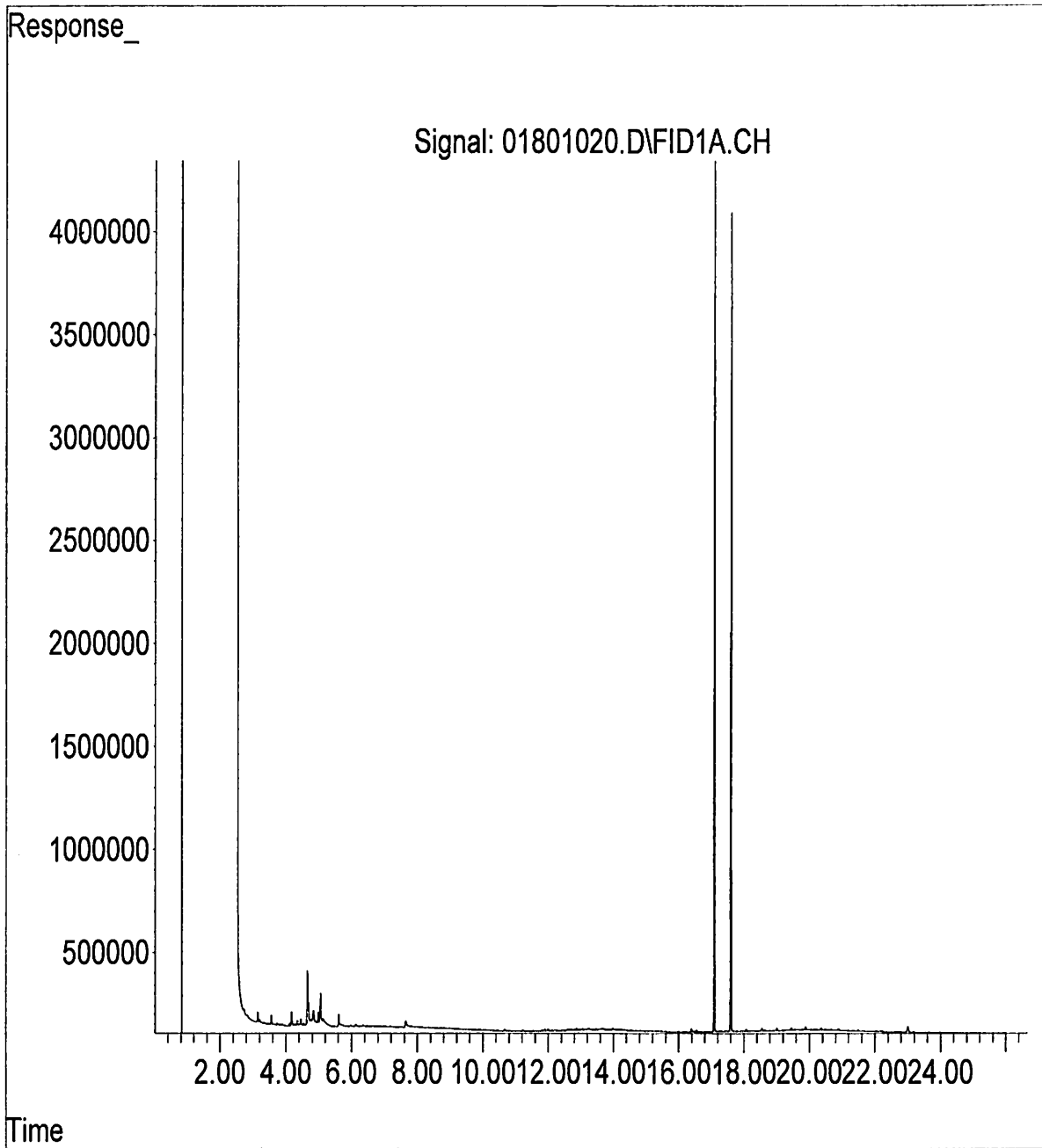
Compund	R.T.	Response	Conc
Internal Standards			
1) Pentacosane	17.09	22648800	50.00 ppm
System Monitoring Compunds			
6) Hexacosane	17.60	23049100	51.85 ppm
Target Compounds			
2) TPH Gasoline	4.84	235335000	1772.390 ppm
4) TPH Diesel	0.00	0	0.000 ppm
5) TPH Waste Oil	22.46	741037000	1897.750 ppm
3) TPH Kerosene	0.00	0	0.000 ppm

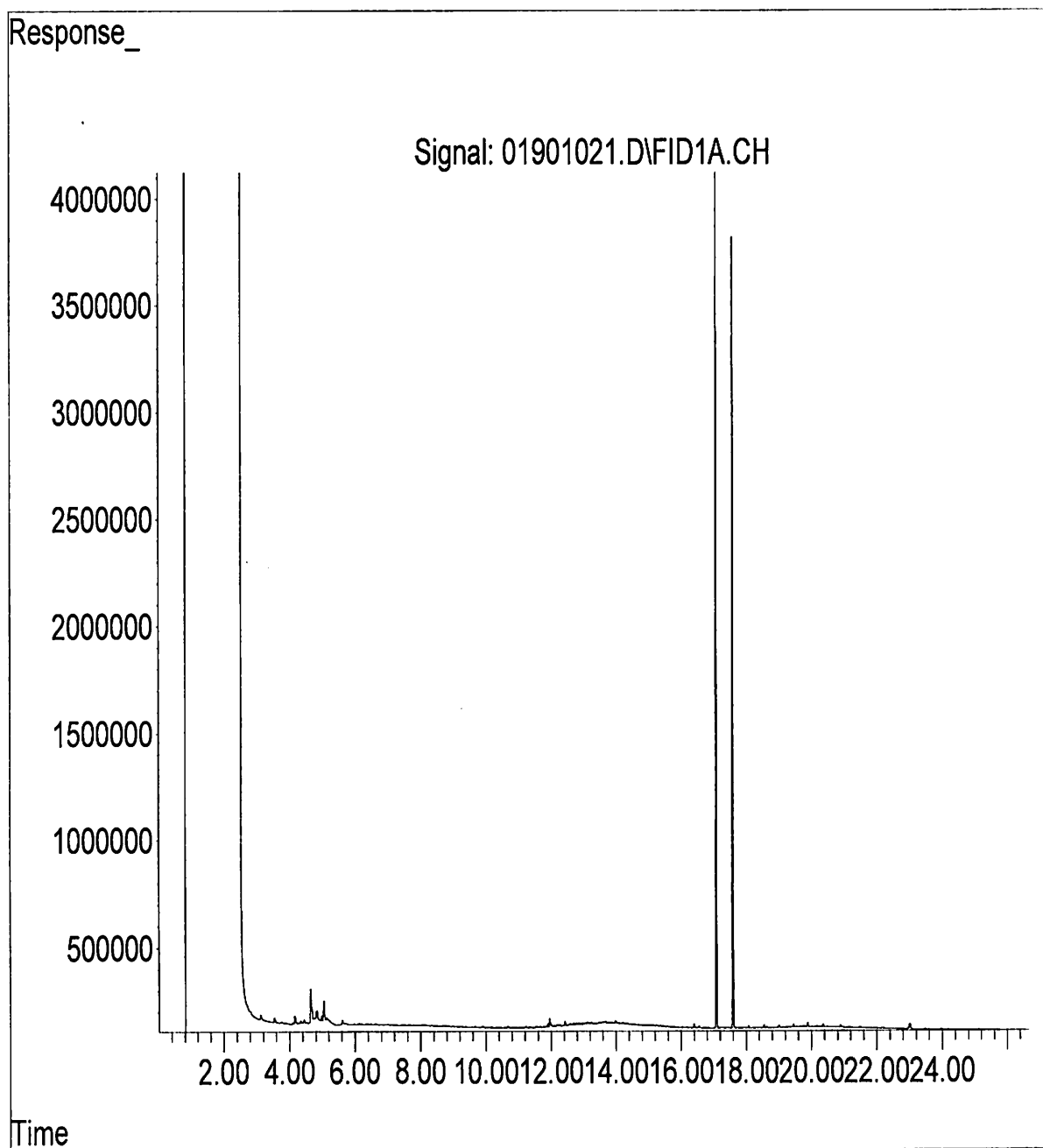


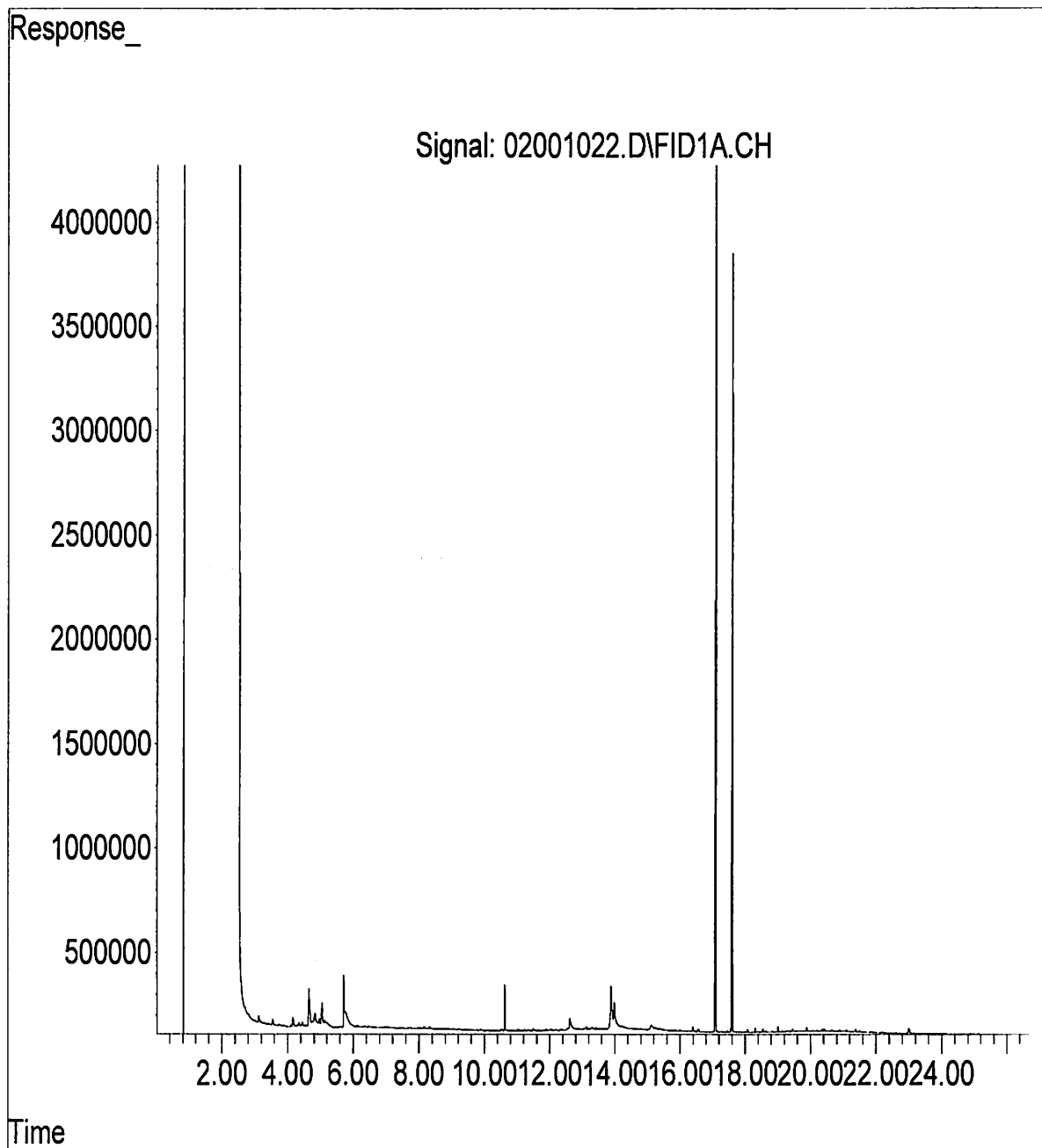


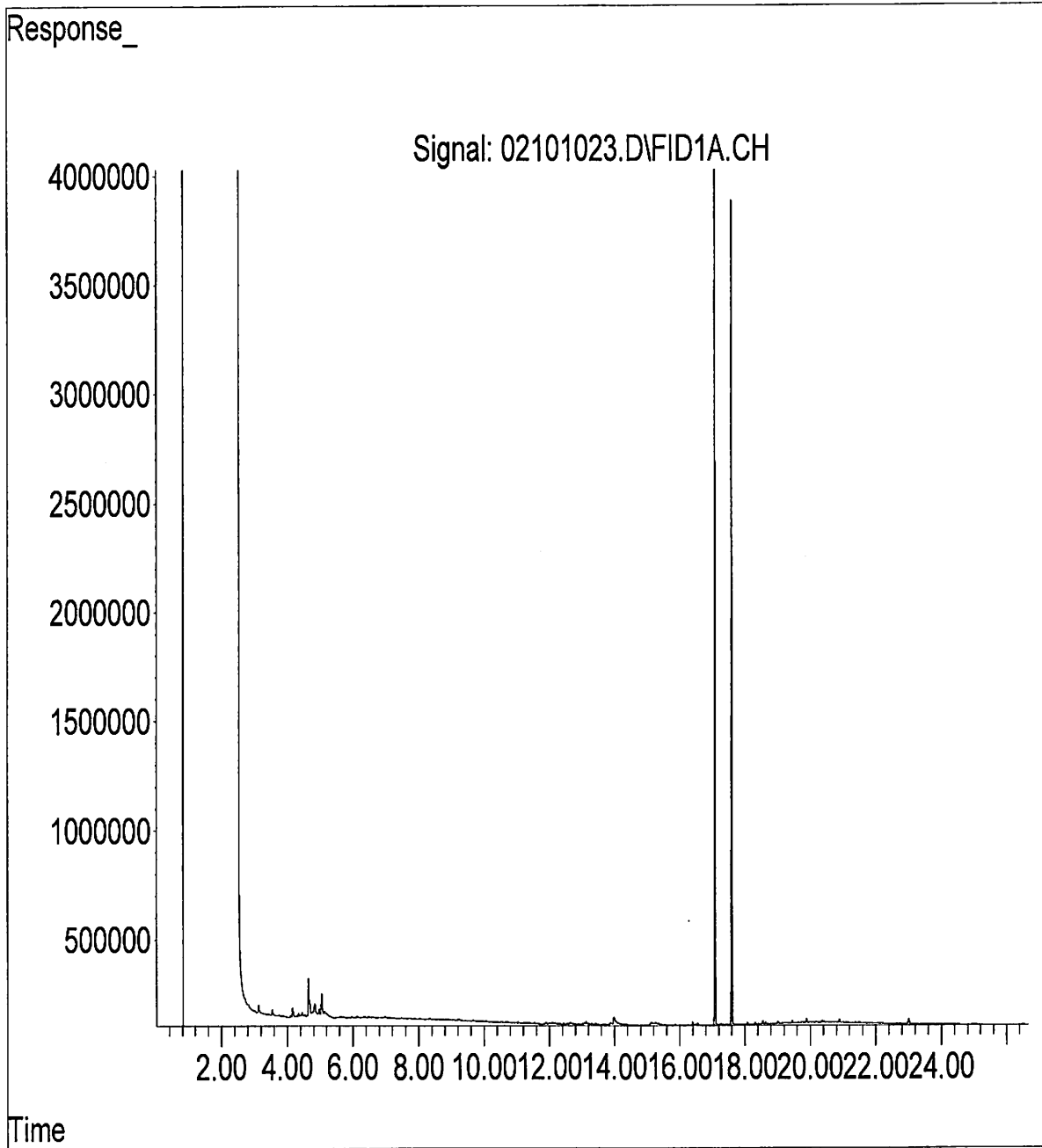


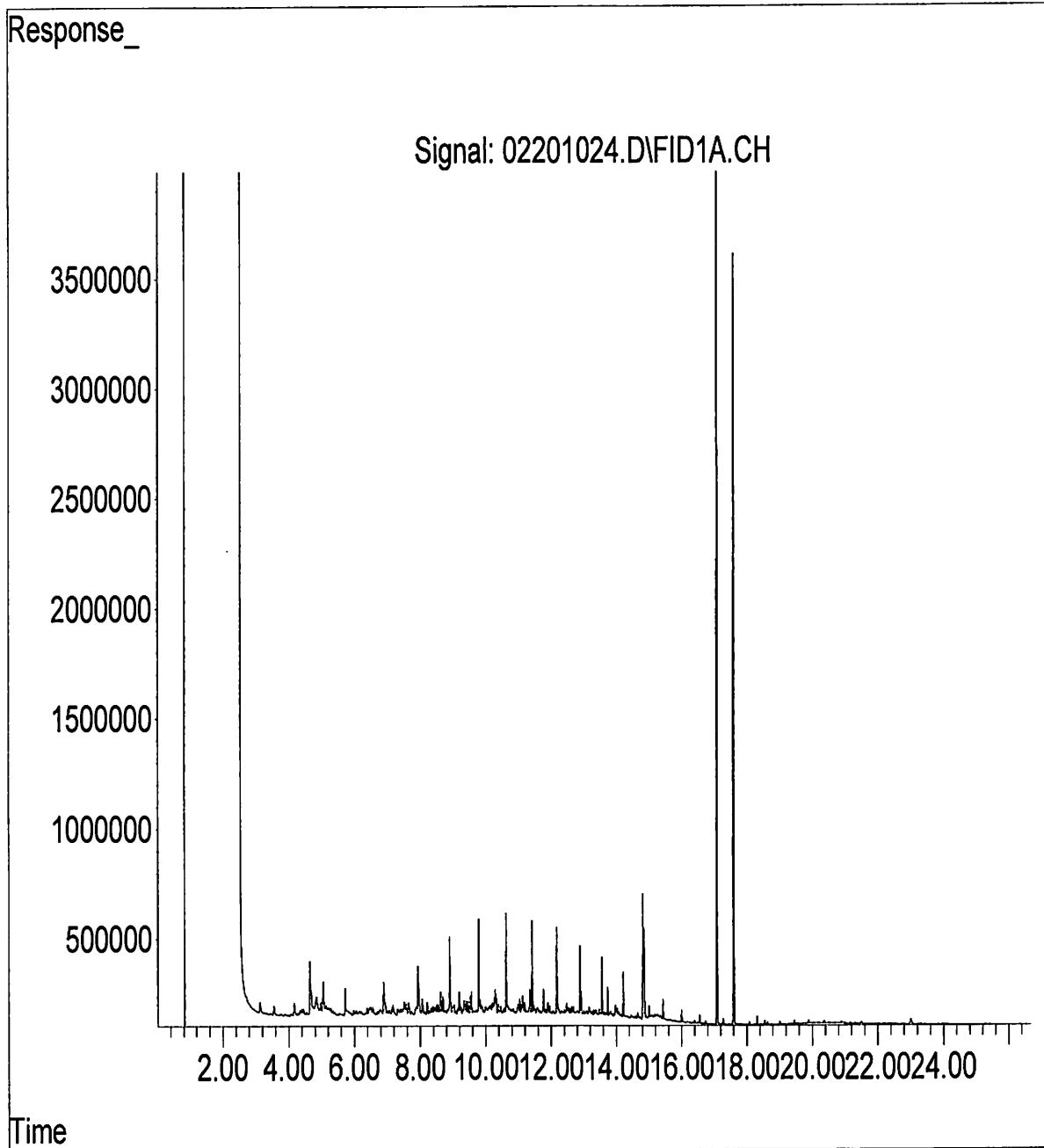


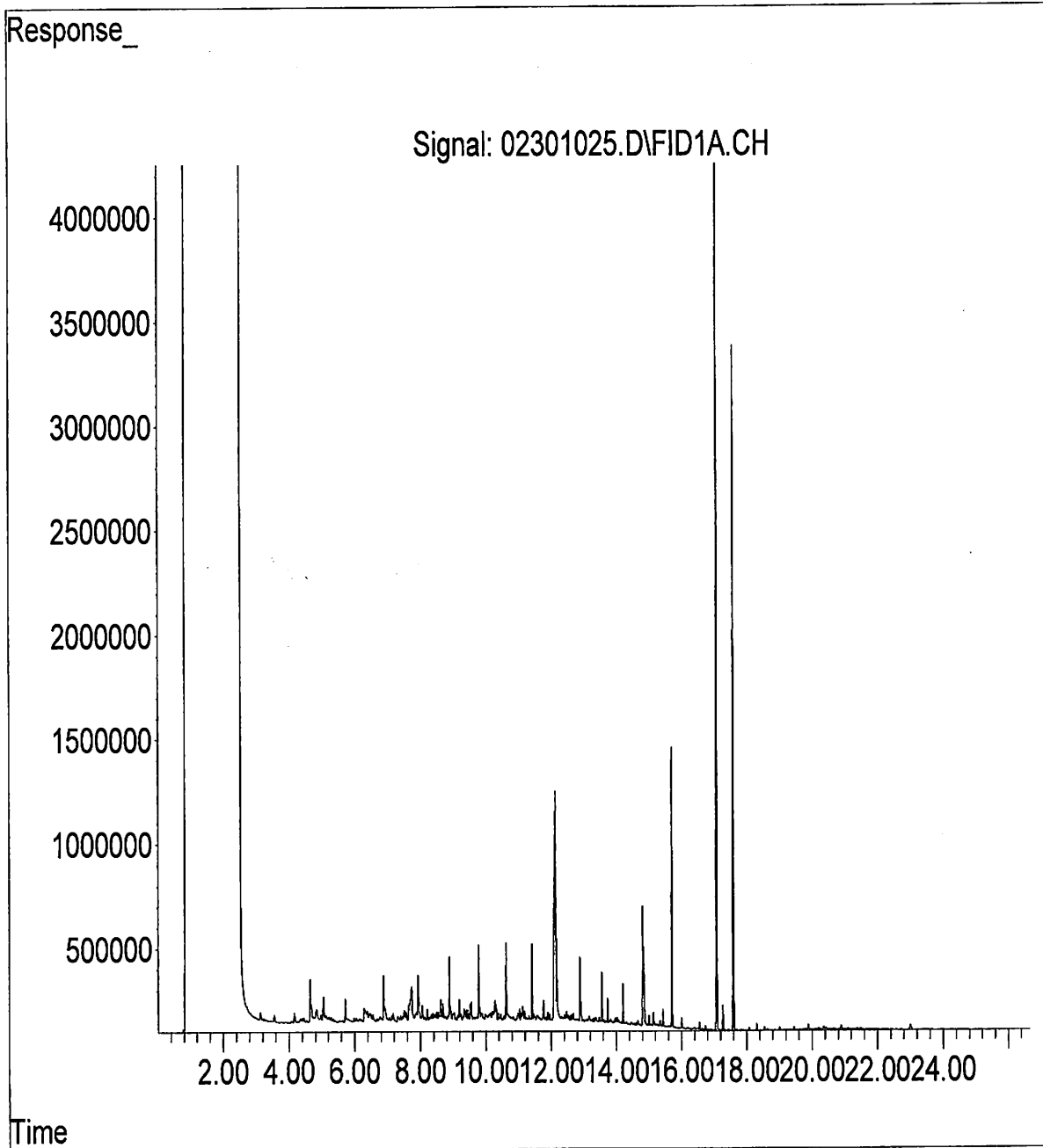


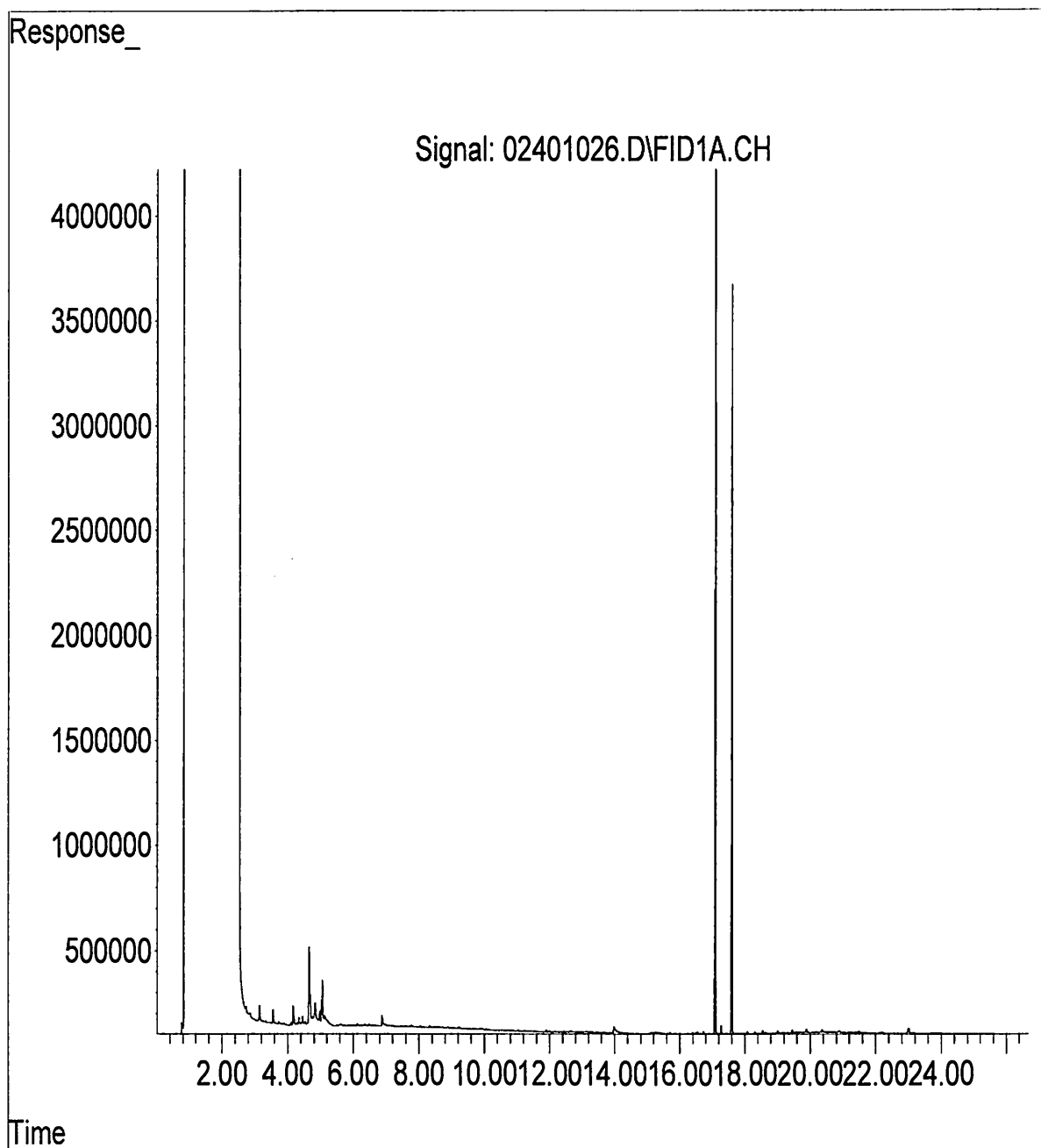










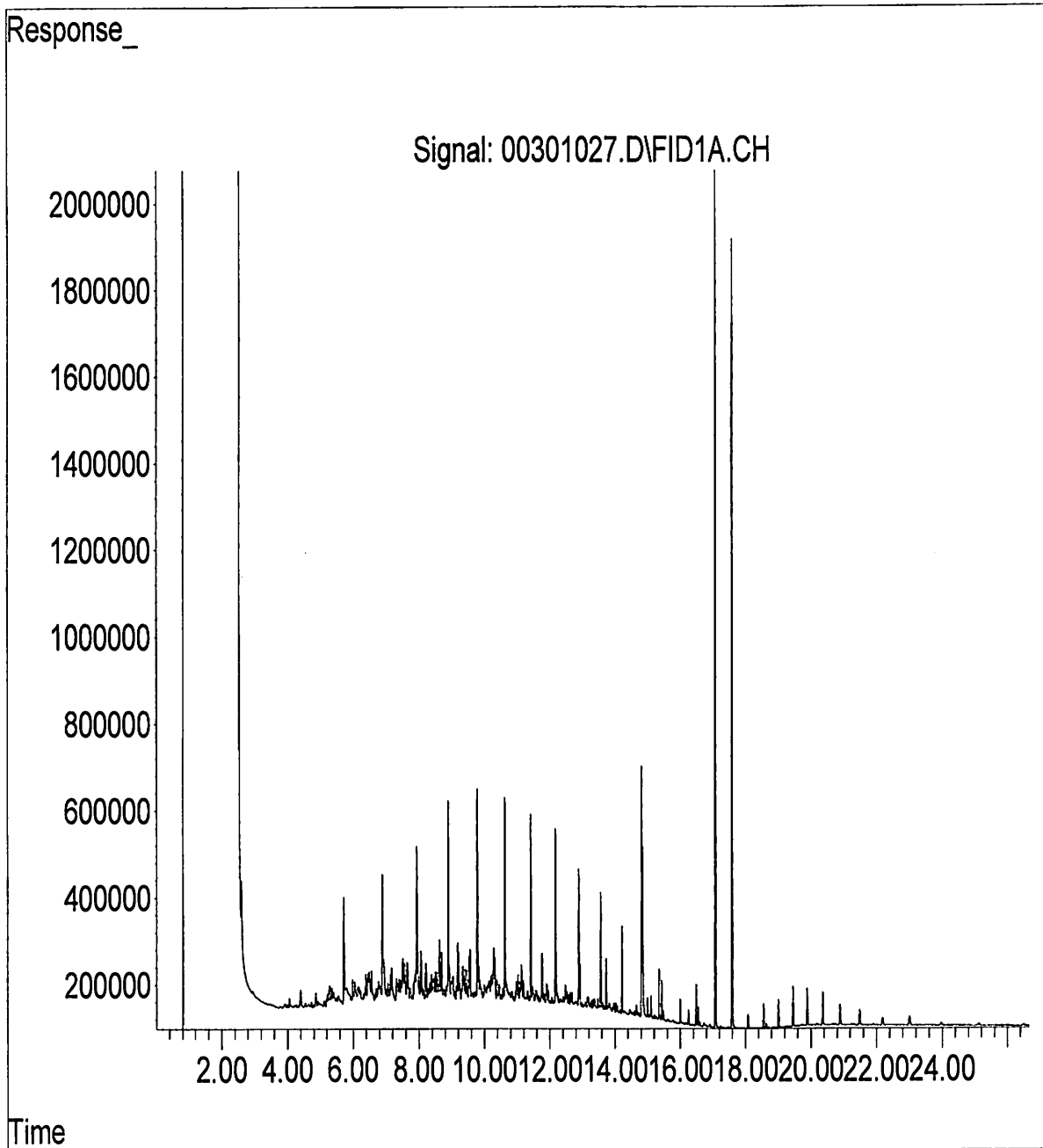


Data Path: T:\Data3\FID2\2023DATA\02FEB\19\
 Data File: 00301027.D
 Signal(s): \FID1A.CH
 Acq On: 20 Feb 2023 8:52 am
 Operator: taz
 Sample: 1000ppm Diesel
 Misc: 0

Vial: 3 Sample Multiplier: 1

Quant Time: Mon Feb 20 09:18:50 2023
 Quant Method: T:\Data3\FID2\2021METHODS\220916THPDx.M
 Quant Title: NWTPH-HCID-EPA 8015B
 QLast Update: Fri Dec 23 10:08:12 2022
 Integrator: MSD ChemStation E.02.02.1431 Copyright © 1989-2011 Agilent Technologies, Inc.

Compund	R.T.	Response	Conc
Internal Standards			
1) Pentacosane	17.09	23976300	50.00 ppm
System Monitoring Compunds			
6) Hexacosane	17.60	22795500	48.44 ppm
Target Compounds			
2) TPH Gasoline	0.00	0	0.000 ppm
4) TPH Diesel	11.13	406212000	1046.600 ppm
5) TPH Waste Oil	0.00	0	0.000 ppm
3) TPH Kerosene	0.00	0	0.000 ppm



Data Path: T:\Data3\FID2\2023DATA\02FEB\19\
 Data File: 00401028.D
 Signal(s): \FID1A.CH
 Acq On: 20 Feb 2023 9:26 am
 Operator: taz
 Sample: 2000ppm Oil and Gas
 Misc: 0

Vial: 4 Sample Multiplier: 1

Quant Time: Mon Feb 20 09:53:40 2023
 Quant Method: T:\Data3\FID2\2021METHODS\220916THPDx.M
 Quant Title: NWTPH-HCID-EPA 8015B
 QLast Update: Fri Dec 23 10:08:12 2022
 Integrator: MSD ChemStation E.02.02.1431 Copyright © 1989-2011 Agilent Technologies, Inc.

Compund	R.T.	Response	Conc
Internal Standards			
1) Pentacosane	17.09	21967400	50.00 ppm
System Monitoring Compunds			
6) Hexacosane	17.60	22805100	52.90 ppm
Target Compounds			
2) TPH Gasoline	4.84	255603000	1984.740 ppm
4) TPH Diesel	0.00	0	0.000 ppm
5) TPH Waste Oil	22.46	691394000	1825.540 ppm
3) TPH Kerosene	0.00	0	0.000 ppm

