AECOS, Inc.

45-939 Kamehameha Hwy, Suite 104 · Kaneohe, HI 96744
Telephone: (808) 234-7770 · Fax: (808) 234-7775 · aecos@aecos.com

CLIENT: Cardno-GS
737 Bishop Street, Suite 3050
Honolulu HI 96813

ATTENTION: Benjamin Berridge
Benjamin.Berridge@cardno-gs.com

FILE No.:	1494
REPORT DATE:	10/05/2022
PAGE:	1 of 1

AECOS REPORT OF RESULTS

SAMPLE TYPE: stormwater
DATE SAMPLED: 10/03/22
TEMP. CONTROL: 5.2 °C (by IR)
DATE/TIME ANALYZED: 10/03/22 @1618-1624

***AECOS* LOG No.:** 46206
DATE/TIME RECEIVED: 10/03/22 @1540
SAMPLER: H. Hubanks
MATRIX: water
ANALYST: R. Knapstein

	ANALYTE (UNITS)	Enterococcus (MPN/100ml)	*Dilution Factor (10 ml / 100 ml)*	*Number of large positive wells*	*Number of small positive wells*
	METHOD →	ASTM D650399	---	---	---
SAMPLE ID ⇩	TIME SAMPLED ⇩				
E-2	0925	120	*8*	*3*	*10*
DW-2	1021	630	*34*	*5*	*10*
DW-3	0950	840	*36*	*12*	*10*
D-7	1042	390	*21*	*9*	*10*
D-3	1007	720	*36*	*6*	*10*
D-2	0945	2200	*48*	*15*	*10*
D-4	0925	1200	*44*	*7*	*10*
D-5	0945	230	*18*	*1*	*10*
WW-2	1010	2200	*44*	*29*	*10*
WW-3	1025	280	*17*	*6*	*10*
D-6	1040	63	*5*	*1*	*10*
U3/WW4	0925	550	*28*	*10*	*10*
U2/WW5	0950	440	*28*	*3*	*10*
D-8	1050	550	*31*	*5*	*10*
DW-1/WW-1	1025	120	*11*	*0*	*10*
E-1	1125	<10	*0*	*0*	*10*

for *AECOS*, Inc.

AECOS, Inc.

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Kaneohe, Oahu, HI 96744
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CHAIN OF CUSTODY FORM

PROJECT
FILE No.
LOG NUMBER [046206]

CLIENT: Cardno
ADDRESS: 737 Bishop Street Suite 2050
Honolulu HI 96813

CONTACT: Ben Berridge
PHONE No.: ☎ 808-476-0067
Purchase Order No.:

☐ RUSH
☐ SEE REVERSE
SPECIAL INSTRUCTIONS

	☑	SAMPLE ID	SAMPLED DATE	TIME	SAMPLE TYPE	CONTAINER(S)		REQUESTED ANALYSES	PRESERVATION
1	✓	E-2	10-3-2022	9:25	Water	1	idexx	enterococci	
2	✓	DW-2		10:21					
3	✓	DW-3		9:50					
4	✓	D-7		10:42					
5	✓	D-3		10:07					
6	✓	D-2		9:45					
7	✓	D-4		9:25					
8	✓	D-5		9:45					
9	✓	NW-2		10:10					
10	✓	NW-3		10:25					

CLIENTS PROVIDING SAMPLES TO THE LABORATORY SHOULD COMPLETE AS MUCH OF THE ABOVE FORM AS POSSIBLE, NOTE: NAME AND DATED SIGNATURE OF PERSON COLLECTING THE SAMPLE MUST BE ENTERED BELOW ↓. INFORMATION REQUESTED IN SHADED BOXES ABOVE TO BE FILLED IN BY THE LABORATORY.

SAMPLED BY: DATE 10-3-2022
PRINT NAME Hannah Hubanks
RELINQUISHED: DATE 10/3 2022
SIGNATURE TIME 3:40

RECEIVED BY: DATE 20___
SIGNATURE TIME
RELINQUISHED: DATE 20___
SIGNATURE OR INITIALS TIME

RECEIVED FOR LABORATORY: DATE 10/3 20 22
SIGNATURE TIME 1540
RELINQUISHED: DATE 20___
SIGNATURE OR INITIALS TIME

COMMENTS: No temp ctrl, temp taken w/ IR gun T = 5.2 °C

PRECAUTIONS:

DISPOSAL:

USE (BLACK) INK

RETURN SAMPLE TO CLIENT ☐

AECOS, Inc.

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Kaneohe, Oahu, HI 96744
Tel: (808) 234-7770 Fax: 234-7775

CHAIN OF CUSTODY FORM

PROJECT FILE No.:

LOG NUMBER [46206]

CLIENT: Cardno
ADDRESS: 737 Bishop Street Suite 3050 Honolulu HI 96813

CONTACT: Ben Bermudez
PHONE No.: ☎ 808-476-0067
Purchase Order No.:

☐ RUSH
☐ SEE REVERSE
SPECIAL INSTRUCTIONS

	☑	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	SAMPLE TYPE	CONTAINER(S)		REQUESTED ANALYSES	PRESERVATION
1	✓	D-6	10-3-2022	10:40	water	1	idexx	enterococci	
2	✓	U3/WW4		9:25					
3	✓	U2/WW5		9:50					
4	✓	D-8		10:50					
5	✓	DW-1/WW-1		10:25					
6	✓	E-1		11:25					
7									
8									
9									
10									

CLIENTS PROVIDING SAMPLES TO THE LABORATORY SHOULD COMPLETE AS MUCH OF THE ABOVE FORM AS POSSIBLE, NOTE: NAME AND DATED SIGNATURE OF PERSON COLLECTING THE SAMPLE MUST BE ENTERED BELOW ↓. INFORMATION REQUESTED IN SHADED BOXES ABOVE TO BE FILLED IN BY THE LABORATORY.

SAMPLED BY: DATE 10-3-2022
PRINT NAME Hannah Hubanks
RELINQUISHED: DATE 2022
SIGNATURE TIME 3:40

RECEIVED BY: DATE 20___
SIGNATURE TIME
RELINQUISHED: DATE 20___
SIGNATURE OR INITIALS TIME

RECEIVED FOR LABORATORY: DATE 10/3 2022
SIGNATURE TIME 1540
RELINQUISHED: DATE 20___
SIGNATURE OR INITIALS TIME

COMMENTS: No temp ctrl, temp taken w/ IR gun
T = 5.2°C

PRECAUTIONS:

DISPOSAL:

RETURN SAMPLE TO CLIENT ☐

USE (BLACK) INK

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Client:	Cardno - Hawaii	Work Order:	WCJ0253
Address:	737 Bishop St., Ste. 3050	Project:	ADC Water Quality Monitoring
	Honolulu, HI 96813	Reported:	12/30/2022 09:13
Attn:	Benjamin Berridge		

Analytical Results Report

Sample Location:	DW-2		
Lab/Sample Number:	WCJ0253-01	Collect Date:	10/03/22 10:21
Date Received:	10/06/22 10:00	Collected By:	
Matrix:	Water		

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	13.5	mg/L	0.250	0.250	10/7/22 14:10	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00101	mg/L	0.000540	0.00100	10/14/22 16:03	JLG	EPA 200.8	
Mercury								
Mercury	<0.0850	ug/L	0.0850	0.100	10/18/22 12:57	JLG	EPA 245.1	M1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	10/12/22 6:00	ARC	NWTPH-HCID	
Gasoline	<0.16	mg/L	0.160	0.400	10/12/22 6:00	ARC	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	10/12/22 6:00	ARC	NWTPH-HCID	
Mineral Oil	<0.16	mg/L	0.160	0.400	10/12/22 6:00	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*96.3%*		*50-150*		*10/12/22 6:00*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: DW-3

Lab/Sample Number: WCJ0253-02 Collect Date: 10/03/22 09:50

Date Received: 10/06/22 10:00 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	9.50	mg/L	0.250	0.250	10/7/22 14:10	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.000740	mg/L	0.000540	0.00100	10/14/22 16:05	JLG	EPA 200.8	J
Mercury								
Mercury	<0.0850	ug/L	0.0850	0.100	10/18/22 12:59	JLG	EPA 245.1	M1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	10/12/22 7:49	ARC	NWTPH-HCID	
Gasoline	<0.16	mg/L	0.160	0.400	10/12/22 7:49	ARC	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	10/12/22 7:49	ARC	NWTPH-HCID	
Mineral Oil	<0.16	mg/L	0.160	0.400	10/12/22 7:49	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*102%*		*50-150*		*10/12/22 7:49*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: D-2

Lab/Sample Number: WCJ0253-03 Collect Date: 10/03/22 09:45

Date Received: 10/06/22 10:00 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	15.5	mg/L	0.500	0.500	10/7/22 14:10	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00933	mg/L	0.000540	0.00100	10/14/22 16:07	JLG	EPA 200.8	
Mercury								
Mercury	<0.0850	ug/L	0.0850	0.100	10/18/22 13:01	JLG	EPA 245.1	M1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	10/12/22 8:44	ARC	NWTPH-HCID	
Gasoline	<0.16	mg/L	0.160	0.400	10/12/22 8:44	ARC	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	10/12/22 8:44	ARC	NWTPH-HCID	
Mineral Oil	<0.16	mg/L	0.160	0.400	10/12/22 8:44	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*98.3%*		*50-150*		*10/12/22 8:44*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: D-3

Lab/Sample Number: WCJ0253-04 Collect Date: 10/03/22 10:07

Date Received: 10/06/22 10:00 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	13.5	mg/L	0.250	0.250	10/7/22 14:10	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00101	mg/L	0.000540	0.00100	10/14/22 16:10	JLG	EPA 200.8	
Mercury								
Mercury	<0.0850	ug/L	0.0850	0.100	10/18/22 13:04	JLG	EPA 245.1	M1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	10/12/22 9:40	ARC	NWTPH-HCID	
Gasoline	<0.16	mg/L	0.160	0.400	10/12/22 9:40	ARC	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	10/12/22 9:40	ARC	NWTPH-HCID	
Mineral Oil	<0.16	mg/L	0.160	0.400	10/12/22 9:40	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*101%*		*50-150*		*10/12/22 9:40*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: D-4

Lab/Sample Number: WCJ0253-05 Collect Date: 10/03/22 09:25

Date Received: 10/06/22 10:00 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	5.50	mg/L	0.250	0.250	10/7/22 14:10	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00153	mg/L	0.000540	0.00100	10/14/22 16:12	JLG	EPA 200.8	
Mercury								
Mercury	<0.0850	ug/L	0.0850	0.100	10/18/22 13:06	JLG	EPA 245.1	M1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	10/12/22 16:11	ARC	NWTPH-HCID	
Gasoline	<0.16	mg/L	0.160	0.400	10/12/22 16:11	ARC	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	10/12/22 16:11	ARC	NWTPH-HCID	
Mineral Oil	<0.16	mg/L	0.160	0.400	10/12/22 16:11	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*111%*		*50-150*		*10/12/22 16:11*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: D-5

Lab/Sample Number: WCJ0253-06 Collect Date: 10/03/22 09:45

Date Received: 10/06/22 10:00 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	8.00	mg/L	0.200	0.200	10/7/22 14:10	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00138	mg/L	0.000540	0.00100	10/14/22 16:14	JLG	EPA 200.8	
Mercury								
Mercury	<0.0850	ug/L	0.0850	0.100	10/18/22 13:08	JLG	EPA 245.1	M1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	10/12/22 17:06	ARC	NWTPH-HCID	
Gasoline	<0.16	mg/L	0.160	0.400	10/12/22 17:06	ARC	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	10/12/22 17:06	ARC	NWTPH-HCID	
Mineral Oil	<0.16	mg/L	0.160	0.400	10/12/22 17:06	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*99.7%*		*50-150*		*10/12/22 17:06*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: D-6

Lab/Sample Number: WCJ0253-07 Collect Date: 10/03/22 10:40

Date Received: 10/06/22 10:00 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	8.00	mg/L	0.200	0.200	10/7/22 14:10	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00164	mg/L	0.000540	0.00100	10/14/22 16:17	JLG	EPA 200.8	
Mercury								
Mercury	<0.0850	ug/L	0.0850	0.100	10/18/22 13:11	JLG	EPA 245.1	M1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	10/12/22 18:02	ARC	NWTPH-HCID	
Gasoline	<0.16	mg/L	0.160	0.400	10/12/22 18:02	ARC	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	10/12/22 18:02	ARC	NWTPH-HCID	
Mineral Oil	<0.16	mg/L	0.160	0.400	10/12/22 18:02	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*83.9%*		*50-150*		*10/12/22 18:02*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: D-7

Lab/Sample Number: WCJ0253-08 Collect Date: 10/03/22 10:42

Date Received: 10/06/22 10:00 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	19.5	mg/L	0.500	0.500	10/7/22 14:10	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	<0.00054	mg/L	0.000540	0.00100	10/14/22 16:19	JLG	EPA 200.8	
Mercury								
Mercury	<0.0850	ug/L	0.0850	0.100	10/18/22 13:13	JLG	EPA 245.1	M1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	10/12/22 18:58	ARC	NWTPH-HCID	
Gasoline	<0.16	mg/L	0.160	0.400	10/12/22 18:58	ARC	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	10/12/22 18:58	ARC	NWTPH-HCID	
Mineral Oil	<0.16	mg/L	0.160	0.400	10/12/22 18:58	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*70.3%*		*50-150*		*10/12/22 18:58*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: D-8

Lab/Sample Number: WCJ0253-09 Collect Date: 10/03/22 10:50

Date Received: 10/06/22 10:00 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	6.20	mg/L	0.200	0.200	10/7/22 14:10	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00396	mg/L	0.000540	0.00100	10/14/22 16:21	JLG	EPA 200.8	
Mercury								
Mercury	<0.0850	ug/L	0.0850	0.100	10/18/22 13:15	JLG	EPA 245.1	M1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	10/12/22 19:54	ARC	NWTPH-HCID	
Gasoline	<0.16	mg/L	0.160	0.400	10/12/22 19:54	ARC	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	10/12/22 19:54	ARC	NWTPH-HCID	
Mineral Oil	<0.16	mg/L	0.160	0.400	10/12/22 19:54	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*74.0%*		*50-150*		*10/12/22 19:54*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: DW-1/WW-1

Lab/Sample Number: WCJ0253-10 Collect Date: 10/03/22 10:25

Date Received: 10/06/22 10:00 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	5.40	mg/L	0.200	0.200	10/7/22 14:10	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00211	mg/L	0.000540	0.00100	10/14/22 16:37	JLG	EPA 200.8	
Mercury								
Mercury	<0.0850	ug/L	0.0850	0.100	10/18/22 13:17	JLG	EPA 245.1	M1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	10/12/22 20:49	ARC	NWTPH-HCID	
Gasoline	<0.16	mg/L	0.160	0.400	10/12/22 20:49	ARC	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	10/12/22 20:49	ARC	NWTPH-HCID	
Mineral Oil	<0.16	mg/L	0.160	0.400	10/12/22 20:49	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*95.7%*		*50-150*		*10/12/22 20:49*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: WW-2

Lab/Sample Number: WCJ0253-11 Collect Date: 10/03/22 10:10

Date Received: 10/06/22 10:00 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	36.0	mg/L	0.500	0.500	10/7/22 14:10	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00310	mg/L	0.000540	0.00100	10/14/22 16:39	JLG	EPA 200.8	
Mercury								
Mercury	<0.0850	ug/L	0.0850	0.100	10/18/22 13:27	JLG	EPA 245.1	M1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	10/12/22 21:45	ARC	NWTPH-HCID	
Gasoline	<0.16	mg/L	0.160	0.400	10/12/22 21:45	ARC	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	10/12/22 21:45	ARC	NWTPH-HCID	
Mineral Oil	<0.16	mg/L	0.160	0.400	10/12/22 21:45	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*86.6%*		*50-150*		*10/12/22 21:45*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: U-3/WW-4

Lab/Sample Number: WCJ0253-12 Collect Date: 10/03/22 09:25

Date Received: 10/06/22 10:00 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	62.0	mg/L	0.400	0.400	10/7/22 14:10	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	<0.00054	mg/L	0.000540	0.00100	10/14/22 16:41	JLG	EPA 200.8	
Mercury								
Mercury	<0.0850	ug/L	0.0850	0.100	10/18/22 13:29	JLG	EPA 245.1	M1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	10/12/22 22:40	ARC	NWTPH-HCID	
Gasoline	<0.16	mg/L	0.160	0.400	10/12/22 22:40	ARC	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	10/12/22 22:40	ARC	NWTPH-HCID	
Mineral Oil	<0.16	mg/L	0.160	0.400	10/12/22 22:40	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*92.7%*		*50-150*		*10/12/22 22:40*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: WW-3

Lab/Sample Number: WCJ0253-13 Collect Date: 10/03/22 10:25

Date Received: 10/06/22 10:00 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	7.60	mg/L	0.200	0.200	10/7/22 14:10	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00179	mg/L	0.000540	0.00100	10/14/22 16:44	JLG	EPA 200.8	
Mercury								
Mercury	<0.0850	ug/L	0.0850	0.100	10/18/22 13:31	JLG	EPA 245.1	M1
Semivolatiles								
AMPA	ND	ug/L	5.00	10.0	10/11/22 19:11	MER	EPA 547	*
Glyphosate	<2.5	ug/L	2.50	5.00	10/11/22 19:11	MER	EPA 547	*
Atrazine	<0.05	ug/L	0.0500	0.100	11/9/22 21:52	MH	EPA 625.1	*
Chlorpyrifos	ND	ug/L	0.0500	0.100	11/9/22 21:52	MH	EPA 625.1	*
Metolachlor	ND	ug/L	0.0500	0.100	11/9/22 21:52	MH	EPA 625.1	*
Surrogate: Terphenyl-d14	*68.7%*		*25-135*		*11/9/22 21:52*	*MH*	*EPA 625.1*	
Diesel	<0.052	mg/L	0.0520	0.0800	10/12/22 23:35	ARC	NWTPH-HCID	
Gasoline	<0.16	mg/L	0.160	0.400	10/12/22 23:35	ARC	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	10/12/22 23:35	ARC	NWTPH-HCID	
Mineral Oil	<0.16	mg/L	0.160	0.400	10/12/22 23:35	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*91.9%*		*50-150*		*10/12/22 23:35*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: E-2

Lab/Sample Number: WCJ0253-14 Collect Date: 10/03/22 09:25

Date Received: 10/06/22 10:00 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	17.0	mg/L	0.500	0.500	10/7/22 14:10	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.00574	mg/L	0.000540	0.00100	10/14/22 16:46	JLG	EPA 200.8	
Mercury								
Mercury	<0.0850	ug/L	0.0850	0.100	10/18/22 13:33	JLG	EPA 245.1	M1
Semivolatiles								
AMPA	ND	ug/L	5.00	10.0	10/11/22 17:56	MER	EPA 547	*
Glyphosate	<2.5	ug/L	2.50	5.00	10/11/22 17:56	MER	EPA 547	*
Atrazine	<0.05	ug/L	0.0500	0.100	11/9/22 22:22	MH	EPA 625.1	*
Chlorpyrifos	ND	ug/L	0.0500	0.100	11/9/22 22:22	MH	EPA 625.1	*
Metolachlor	ND	ug/L	0.0500	0.100	11/9/22 22:22	MH	EPA 625.1	*
Surrogate: Terphenyl-d14	*60.3%*		*25-135*		*11/9/22 22:22*	*MH*	*EPA 625.1*	
Diesel	<0.052	mg/L	0.0520	0.0800	10/13/22 0:30	ARC	NWTPH-HCID	
Gasoline	<0.16	mg/L	0.160	0.400	10/13/22 0:30	ARC	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	10/13/22 0:30	ARC	NWTPH-HCID	
Mineral Oil	<0.16	mg/L	0.160	0.400	10/13/22 0:30	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*98.9%*		*50-150*		*10/13/22 0:30*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: E-1

Lab/Sample Number: WCJ0253-15 Collect Date: 10/03/22 11:25

Date Received: 10/06/22 10:00 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	81.0	mg/L	0.500	0.500	10/7/22 14:10	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.000823	mg/L	0.000540	0.00100	10/14/22 16:53	JLG	EPA 200.8	J
Mercury								
Mercury	<0.0850	ug/L	0.0850	0.100	10/18/22 14:05	JLG	EPA 245.1	M1
Semivolatiles								
AMPA	ND	ug/L	5.00	10.0	10/11/22 19:18	MER	EPA 547	*
Glyphosate	<2.5	ug/L	2.50	5.00	10/11/22 19:18	MER	EPA 547	*
Atrazine	<0.05	ug/L	0.0500	0.100	11/9/22 22:52	MH	EPA 625.1	*
Chlorpyrifos	ND	ug/L	0.0500	0.100	11/9/22 22:52	MH	EPA 625.1	*
Metolachlor	ND	ug/L	0.0500	0.100	11/9/22 22:52	MH	EPA 625.1	*
Surrogate: Terphenyl-d14	*66.9%*		*25-135*		*11/9/22 22:52*	*MH*	*EPA 625.1*	
Diesel	<0.052	mg/L	0.0520	0.0800	10/12/22 3:15	ARC	NWTPH-HCID	
Gasoline	<0.16	mg/L	0.160	0.400	10/12/22 3:15	ARC	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	10/12/22 3:15	ARC	NWTPH-HCID	
Mineral Oil	<0.16	mg/L	0.160	0.400	10/12/22 3:15	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*99.0%*		*50-150*		*10/12/22 3:15*	*ARC*	*NWTPH-HCID*	

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Analytical Results Report

(Continued)

Sample Location: E-1 DUP

Lab/Sample Number: WCJ0253-16 Collect Date: 10/03/22 11:25

Date Received: 10/06/22 10:00 Collected By:

Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	22.2	mg/L	0.200	0.200	10/7/22 14:10	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	0.000933	mg/L	0.000540	0.00100	10/14/22 17:00	JLG	EPA 200.8	J
Mercury								
Mercury	<0.0850	ug/L	0.0850	0.100	10/18/22 14:26	JLG	EPA 245.1	M1
Semivolatiles								
AMPA	ND	ug/L	5.00	10.0	10/11/22 19:24	MER	EPA 547	*
Glyphosate	<2.5	ug/L	2.50	5.00	10/11/22 19:24	MER	EPA 547	*
Atrazine	<0.05	ug/L	0.0500	0.100	11/9/22 23:22	MH	EPA 625.1	*
Chlorpyrifos	ND	ug/L	0.0500	0.100	11/9/22 23:22	MH	EPA 625.1	*
Metolachlor	ND	ug/L	0.0500	0.100	11/9/22 23:22	MH	EPA 625.1	*
Surrogate: Terphenyl-d14	*68.2%*		*25-135*		*11/9/22 23:22*	*MH*	*EPA 625.1*	
Diesel	<0.052	mg/L	0.0520	0.0800	10/13/22 1:25	ARC	NWTPH-HCID	
Gasoline	<0.16	mg/L	0.160	0.400	10/13/22 1:25	ARC	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	10/13/22 1:25	ARC	NWTPH-HCID	
Mineral Oil	<0.16	mg/L	0.160	0.400	10/13/22 1:25	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*99.6%*		*50-150*		*10/13/22 1:25*	*ARC*	*NWTPH-HCID*	

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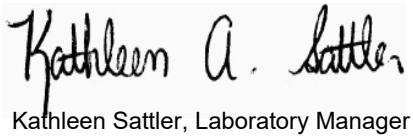
Analytical Results Report

(Continued)

Sample Location: U-2/WW-5
Lab/Sample Number: WCJ0253-17 Collect Date: 10/03/22 09:50
Date Received: 10/06/22 10:00 Collected By:
Matrix: Water

Analyte	Result	Units	MDL	PQL	Analyzed	Analyst	Method	Qualifier
Inorganics								
TSS	7.80	mg/L	0.200	0.200	10/7/22 14:10	KAS	EPA 160.2	
Metals by ICP-MS								
Arsenic	<0.00054	mg/L	0.000540	0.00100	10/14/22 17:02	JLG	EPA 200.8	
Mercury								
Mercury	<0.0850	ug/L	0.0850	0.100	10/18/22 14:14	JLG	EPA 245.1	M1
Semivolatiles								
Diesel	<0.052	mg/L	0.0520	0.0800	10/13/22 2:20	ARC	NWTPH-HCID	
Gasoline	<0.16	mg/L	0.160	0.400	10/13/22 2:20	ARC	NWTPH-HCID	
Lube Oil	<0.0460	mg/L	0.0460	0.0800	10/13/22 2:20	ARC	NWTPH-HCID	
Mineral Oil	<0.16	mg/L	0.160	0.400	10/13/22 2:20	ARC	NWTPH-HCID	
Surrogate: n-Hexacosane	*98.8%*		*50-150*		*10/13/22 2:20*	*ARC*	*NWTPH-HCID*	

Authorized Signature,



Kathleen Sattler, Laboratory Manager

J	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.
M1	Matrix spike recovery was high; the associated blank spike recovery was acceptable. Potential matrix effect
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.

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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: BCJ0253 - W Filtration										
Blank (BCJ0253-BLK1)					Prepared & Analyzed: 10/7/2022					
TSS	ND		0.200	mg/L						
Blank (BCJ0253-BLK2)					Prepared & Analyzed: 10/7/2022					
TSS	ND		0.200	mg/L						
Blank (BCJ0253-BLK3)					Prepared & Analyzed: 10/7/2022					
TSS	ND		0.200	mg/L						
Blank (BCJ0253-BLK4)					Prepared & Analyzed: 10/7/2022					
TSS	ND		0.200	mg/L						
Blank (BCJ0253-BLK5)					Prepared & Analyzed: 10/7/2022					
TSS	ND		0.200	mg/L						
Blank (BCJ0253-BLK6)					Prepared & Analyzed: 10/7/2022					
TSS	ND		0.200	mg/L						
LCS (BCJ0253-BS1)					Prepared & Analyzed: 10/7/2022					
TSS	94.0			mg/L	100		94.0	90-110		
LCS (BCJ0253-BS2)					Prepared & Analyzed: 10/7/2022					
TSS	96.0			mg/L	100		96.0	90-110		
LCS (BCJ0253-BS3)					Prepared & Analyzed: 10/7/2022					
TSS	93.0			mg/L	100		93.0	90-110		
LCS Dup (BCJ0253-BSD1)					Prepared & Analyzed: 10/7/2022					
TSS	90.0			mg/L	100		90.0	90-110	4.35	10

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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: BCJ0253 - W Filtration (Continued)										
LCS Dup (BCJ0253-BSD2)					Prepared & Analyzed: 10/7/2022					
TSS	95.0			mg/L	100		95.0	90-110	1.05	10
LCS Dup (BCJ0253-BSD3)					Prepared & Analyzed: 10/7/2022					
TSS	90.0			mg/L	100		90.0	90-110	3.28	10
Duplicate (BCJ0253-DUP1)		**Source: WCJ0213-05**			Prepared & Analyzed: 10/7/2022					
TSS	18.0		0.333	mg/L		17.7			1.87	20
Duplicate (BCJ0253-DUP2)		**Source: WCJ0218-02**			Prepared & Analyzed: 10/7/2022					
TSS	1.50		0.250	mg/L		1.50			0.00	20
Duplicate (BCJ0253-DUP3)		**Source: WCJ0220-01**			Prepared & Analyzed: 10/7/2022					
TSS	6.75		0.250	mg/L		7.25			7.14	20
Matrix Spike (BCJ0253-MS1)		**Source: WCJ0253-14**			Prepared & Analyzed: 10/7/2022					
TSS	122		2.00	mg/L	100	17.0	105	80-120		
Matrix Spike (BCJ0253-MS2)		**Source: WCJ0253-15**			Prepared & Analyzed: 10/7/2022					
TSS	180		2.00	mg/L	100	81.0	99.0	80-120		
Matrix Spike (BCJ0253-MS3)		**Source: WCJ0214-02**			Prepared & Analyzed: 10/7/2022					
TSS	104		2.00	mg/L	100	ND	104	80-120		
Matrix Spike Dup (BCJ0253-MSD1)		**Source: WCJ0253-14**			Prepared & Analyzed: 10/7/2022					
TSS	122		2.00	mg/L	100	17.0	105	80-120	0.00	20
Matrix Spike Dup (BCJ0253-MSD2)		**Source: WCJ0253-15**			Prepared & Analyzed: 10/7/2022					
TSS	182		2.00	mg/L	100	81.0	101	80-120	1.10	20

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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: BCJ0253 - W Filtration (Continued)										
Matrix Spike Dup (BCJ0253-MSD3)		**Source: WCJ0214-02**			Prepared & Analyzed: 10/7/2022					
TSS	100		2.00	mg/L	100	ND	100	80-120	3.92	20

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: BCJ0331 - W 3010 Digest										
Blank (BCJ0331-BLK1)					Prepared: 10/11/2022 Analyzed: 10/14/2022					
Arsenic	ND		0.00100	mg/L						
LCS (BCJ0331-BS1)					Prepared: 10/11/2022 Analyzed: 10/14/2022					
Arsenic	0.0532		0.00100	mg/L	0.0500		106	85-115		
Matrix Spike (BCJ0331-MS1)		**Source: WCJ0253-14**			Prepared: 10/11/2022 Analyzed: 10/14/2022					
Arsenic	0.0585		0.00100	mg/L	0.0500	0.00574	106	70-130		
Matrix Spike (BCJ0331-MS2)		**Source: WCJ0253-15**			Prepared: 10/11/2022 Analyzed: 10/14/2022					
Arsenic	0.0534		0.00100	mg/L	0.0500	0.000823	105	70-130		
Matrix Spike Dup (BCJ0331-MSD1)		**Source: WCJ0253-14**			Prepared: 10/11/2022 Analyzed: 10/14/2022					
Arsenic	0.0581		0.00100	mg/L	0.0500	0.00574	105	70-130	0.803	20
Matrix Spike Dup (BCJ0331-MSD2)		**Source: WCJ0253-15**			Prepared: 10/11/2022 Analyzed: 10/14/2022					
Arsenic	0.0526		0.00100	mg/L	0.0500	0.000823	104	70-130	1.53	20

Quality Control Data
(Continued)

Mercury

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCJ0334 - W 245.1 Digest										
Blank (BCJ0334-BLK1)					Prepared: 10/11/2022 Analyzed: 10/18/2022					
Mercury	ND		0.100	ug/L						
LCS (BCJ0334-BS1)					Prepared: 10/11/2022 Analyzed: 10/18/2022					
Mercury	1.88		0.100	ug/L	2.00		94.2	85-115		
Matrix Spike (BCJ0334-MS2)		**Source: WCJ0253-15**			Prepared: 10/11/2022 Analyzed: 10/18/2022					
Mercury	2.62	M1	0.100	ug/L	2.00	<0.0850	131	70-130		
Matrix Spike Dup (BCJ0334-MSD2)		**Source: WCJ0253-15**			Prepared: 10/11/2022 Analyzed: 10/18/2022					
Mercury	3.31	M1	0.100	ug/L	2.00	<0.0850	166	70-130	23.2	20

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Quality Control Data

(Continued)

Semivolatiles

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCJ0271 - W TPH-Dx										
Blank (BCJ0271-BLK1)				Prepared & Analyzed: 10/11/2022						
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						
Surrogate: n-Hexacosane			*48.5*	*mg/L*	*50.0*		*96.9*	*50-150*		
LCS (BCJ0271-BS1)				Prepared: 10/11/2022 Analyzed: 10/12/2022						
Diesel	0.755		0.0800	mg/L	1.00		75.5	70-130		
Surrogate: n-Hexacosane			*44.8*	*mg/L*	*50.0*		*89.7*	*50-150*		
Duplicate (BCJ0271-DUP1)		**Source: WCJ0253-01**		Prepared: 10/11/2022 Analyzed: 10/12/2022						
Lube Oil	ND		0.0800	mg/L		<0.0460				200
Mineral Oil	ND		0.400	mg/L		<0.16				200
Gasoline	ND		0.400	mg/L		<0.16				200
Diesel	ND		0.0800	mg/L		<0.052				200
Surrogate: n-Hexacosane			*48.8*	*mg/L*	*50.0*		*97.7*	*50-150*		
Matrix Spike (BCJ0271-MS1)		**Source: WCJ0253-15**		Prepared: 10/11/2022 Analyzed: 10/12/2022						
Diesel	0.841		0.0800	mg/L	1.00	<0.052	84.1	70-130		
Surrogate: n-Hexacosane			*50.0*	*mg/L*	*50.0*		*100*	*50-150*		
Matrix Spike Dup (BCJ0271-MSD1)		**Source: WCJ0253-15**		Prepared: 10/11/2022 Analyzed: 10/12/2022						
Diesel	0.789		0.0800	mg/L	1.00	<0.052	78.9	70-130	6.35	20
Surrogate: n-Hexacosane			*43.6*	*mg/L*	*50.0*		*87.3*	*50-150*		
Batch: BCJ0307 - Glyphosate										
Blank (BCJ0307-BLK1)				Prepared: 10/10/2022 Analyzed: 10/11/2022						
Glyphosate	ND		5.00	ug/L						
AMPA	ND		10.0	ug/L						

Anatek Labs, Inc.

1282 Alturas Drive - Moscow, ID 83843 - (208) 883-2839 - Fax (208) 8829246 - email moscow@anateklabs.com
504 E Sprague Ste. D - Spokane, WA 99202 - (509) 838-3999 - fax (509) 838-4433 - email spokane@anateklabs.com

Quality Control Data
(Continued)

Semivolatiles (Continued)

Analyte	Result	Qual	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch: BCJ0307 - Glyphosate (Continued)										
LCS (BCJ0307-BS1)					Prepared: 10/10/2022 Analyzed: 10/11/2022					
Glyphosate	45.8		5.00	ug/L	50.0		91.6	70-130		
AMPA	91.6		10.0	ug/L	100		91.6	70-130		
Matrix Spike (BCJ0307-MS1)		**Source: WCJ0253-14**			Prepared: 10/10/2022 Analyzed: 10/11/2022					
Glyphosate	53.4		5.00	ug/L	50.0	<2.5	107	70-130		
AMPA	126		10.0	ug/L	100	ND	126	70-130		
Matrix Spike Dup (BCJ0307-MSD1)		**Source: WCJ0253-14**			Prepared: 10/10/2022 Analyzed: 10/11/2022					
Glyphosate	43.7		5.00	ug/L	50.0	<2.5	87.4	70-130	20.0	25
AMPA	101		10.0	ug/L	100	ND	101	70-130	22.0	25
Batch: BCJ0361 - SVOC Water										
Blank (BCJ0361-BLK1)					Prepared: 10/9/2022 Analyzed: 11/9/2022					
Metolachlor	ND		0.100	ug/L						
Atrazine	ND		0.100	ug/L						
Chlorpyrifos	ND		0.100	ug/L						
Surrogate: Terphenyl-d14			*19.3*	*ug/L*	*25.0*		*77.1*	*25-135*		
LCS (BCJ0361-BS1)					Prepared: 10/9/2022 Analyzed: 11/9/2022					
Atrazine	5.45		0.100	ug/L	5.00		109	60-125		
Chlorpyrifos	5.24		0.100	ug/L	5.00		105	50-125		
Metolachlor	5.31		0.100	ug/L	5.00		106	60-125		
Surrogate: Terphenyl-d14			*18.9*	*ug/L*	*25.0*		*75.6*	*25-135*		
LCS Dup (BCJ0361-BSD1)					Prepared: 10/9/2022 Analyzed: 11/9/2022					
Atrazine	5.58		0.100	ug/L	5.00		112	60-125	2.36	20
Chlorpyrifos	5.25		0.100	ug/L	5.00		105	50-125	0.191	20
Metolachlor	5.21		0.100	ug/L	5.00		104	60-125	1.90	20
Surrogate: Terphenyl-d14			*19.0*	*ug/L*	*25.0*		*76.1*	*25-135*		

WCJ0253

Due: 10/20/22

Anatek Labs, Inc.

Chain of Custody Record

1282 Alturas Drive, Moscow ID 83843 (208) 883-2839 FAX 882-9246
504 E Sprague Ste D, Spokane WA 99202 (509) 838-3999 FAX 838-4433

Anatek Log-In #

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 Around

Please refer to our normal turn around times at: http://www.anateklabs.com/services/guidelines/reporting.asp

✓ Normal
__Next Day*
__2nd Day*
__Other*_____

*All rush order requests must be prior approved.

__Phone
__Mail
__Fax
x Email

Provide Sample Description / **List Analyses Requested**

	Lab ID	Sample Identification	Sampling Date/Time	Matrix	Preservative:	# of Containers	Sample Volume	TSS EPA 160.2	TPH HCID - SW 846 MOD 8015	**TPH GRO SW846M8015	Arsenic EPA 200.8	Mercury EPA 245.1					
1	5	DW-2	10-03-2022/10:21 HST	Water		5		X	X	X	X	X					
2	4	DW-3	10-03-2022/09:50 HST	Water		5		X	X	X	X	X					
3	1	D-2	10-03-2022/09:45 HST	Water		5		X	X	X	X	X					
4	5	D-3	10-03-2022/10:07 HST	Water		5		X	X	X	X	X					
5	3	D-4	10-03-2022/09:25 HST	Water		5		X	X	X	X	X					
6	3	D-5	10-03-2022/09:45 HST	Water		5		X	X	X	X	X					
7	3	D-6	10-03-2022/10:40 HST	Water		5		X	X	X	X	X					
8	2	D-7	10-03-2022/10:42 HST	Water		5		X	X	X	X	X					
9	1	D-8	10-03-2022/10:50 HST	Water		5		X	X	X	X	X					
10	2	DW-1/WW-1	10-03-2022/10:25 HST	Water		5		X	X	X	X	X					
11	3	WW-2	10-03-2022/10:10 HST	Water		5		X	X	X	X	X					
12	1	U-3/WW-4	10-03-2022/09:25 HST	Water		5		X	X	X	X	X					
13	1	U-2/WW-5	10-03-2022/09:50 HST	Water		5		X	X	X	X	X					

Note Special Instructions/Comments

**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	10/28/22	14:00
Received by	Kathy Sattler		Anatek labs	10-6-22	10:00
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)

5 Coolers | Ice | Fed Ex

Temperature (°C): See below

Preservative: HCl 2102437 pH<2

2103533 HCl pH<2 pH 2102879

Date & Time: 10-6-22 | 1400

Inspected By: KAS | BAG

Form COC01.00 - Eff 1 Mar 2015

Samples submitted to Anatek Labs may be subcontracted to other accredited labs if necessary. This message serves as notice of this possibility. Sub-contracted analyses will be clearly noted on the analytical report.

Coolers: 1: 2.2°C 2: 2.0°C 3: 0.2°C 4: 3.6°C 5: 2.4°C

WCJ0253

Due: 10/20/22

Anatek Labs, Inc.

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 #

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 Aro

Please refer to our normal turn around times at: http://www.anateklabs.com/services/guidelines/reporting.asp

✓ Normal
__Next Day*
__2nd Day*
__Other*_____

*All rush order requests must be prior approved.

__Phone
__Mail
__Fax
x Email

Provide Sample Description / **List Analyses Requested**

Lab ID	Sample Identification	Sampling Date/Time	Matrix	# of Containers	Sample Volume	Preservative:	TSS EPA 160.2	TPH HCID - 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
4	WW-3	10-03-2022/10:25 HST	Water	7			X	X	X	X	X	X	X		
2	E-2	10-03-2022/09:25 HST	Water	7			X	X	X	X	X	X	X		
4	E-1	10-03-2022/11:25 HST	Water	7			X	X	X	X	X	X	X		
5	E-1 DUP	10-03-2022/11:25 HST	Water	7			X	X	X	X	X	X	X		
5	E-1 MS/MSD	10-03-2022/11:25 HST	Water	6			X	X	X	X	X	X			

14 13
14 15
15 16
16

Note Special Instructions/Comments

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

Inspection Checklist

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

See Page 1

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

	Printed Name	Signature	Company	Date	Time
Relinquished by	Ben Berridge		Cardno	10/04/22	14:00
Received by	Kathy Sattler		Anatek Labs	10-6-22	10:00
Relinquished by					
Received by					
Relinquished by					
Received by					

Form COC01.00 - Eff 1 Mar 2015

Page 1 of 2

Samples submitted to Anatek Labs may be subcontracted to other accredited labs if necessary. This message serves as notice of this possibility. Sub-contracted analyses will be clearly noted on the analytical report.

Anatek Labs, Inc.

Sample Receipt and Preservation Form

WCJ0253

Due: 10/20/22

Client Name: Cardno Project:

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: 5 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): 2.2°C Cooler Temp Corrected (°C): 2.2°C Thermometer Used: IR#2

2.0°C 3.6°C
0.2°C 2.4°C

				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: 34				

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:

HCl 2103533
HCl 2102437
pH <2 2102879

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

Received/Inspected By: Kathleen A Lottle Date/Time: 10-6-22 10:00

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10035.D Vial: 23
Acq On : 11 Oct 2022 23:34 Operator: ARC
Sample : BCJ0271-BLK1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 08:12:08 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.82	95184211	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.54	92808805	48.456	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	96.91%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

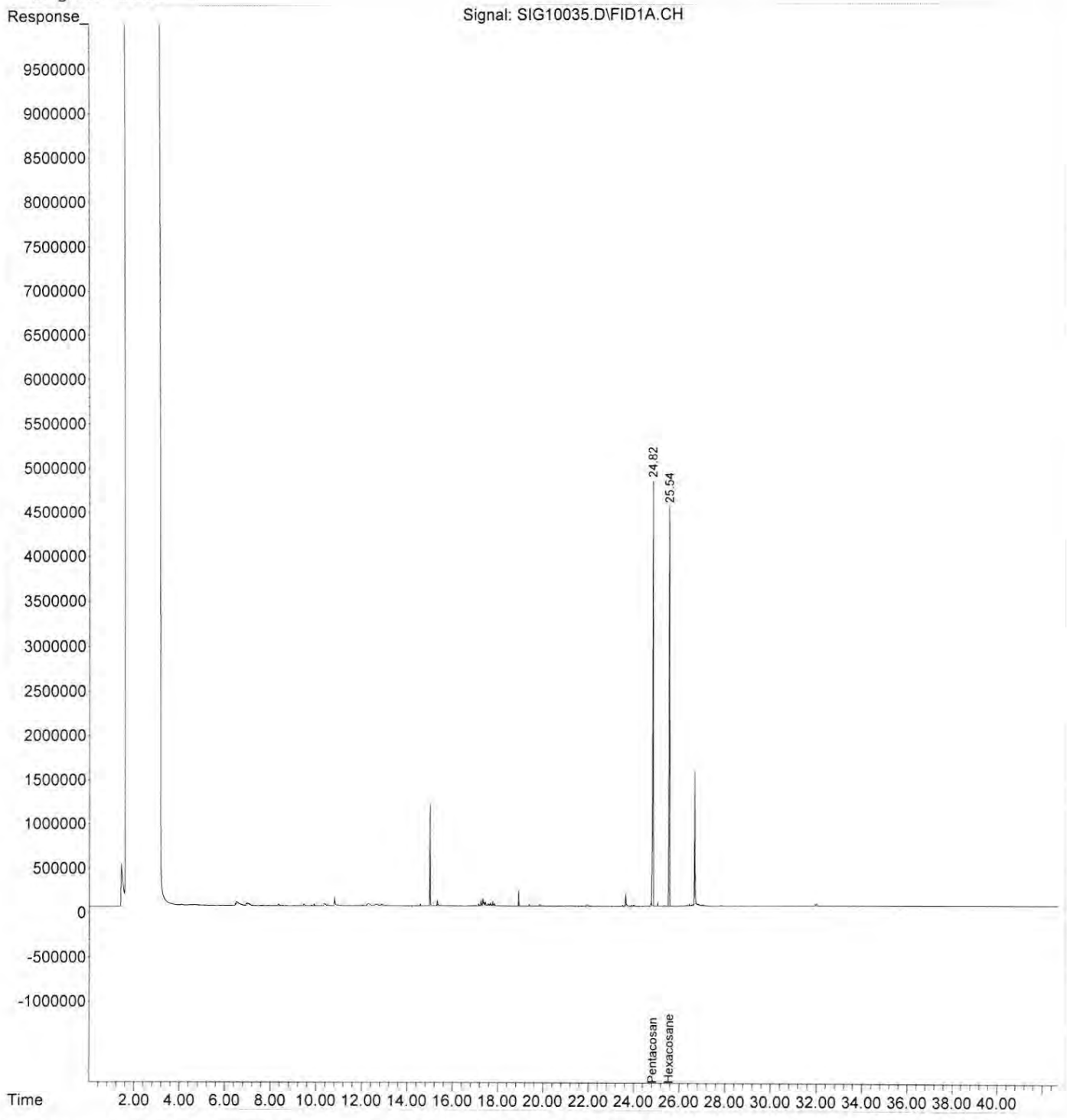
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10035.D Vial: 23
Acq On : 11 Oct 2022 23:34 Operator: ARC
Sample : BCJ0271-BLK1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 8:27 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10036.D Vial: 24
Acq On : 12 Oct 2022 00:29 Operator: ARC
Sample : BCJ0271-BS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 08:12:09 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.82	99670302	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.54	89915550	44.833	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	89.67%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	21.97	262682358	188.843	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

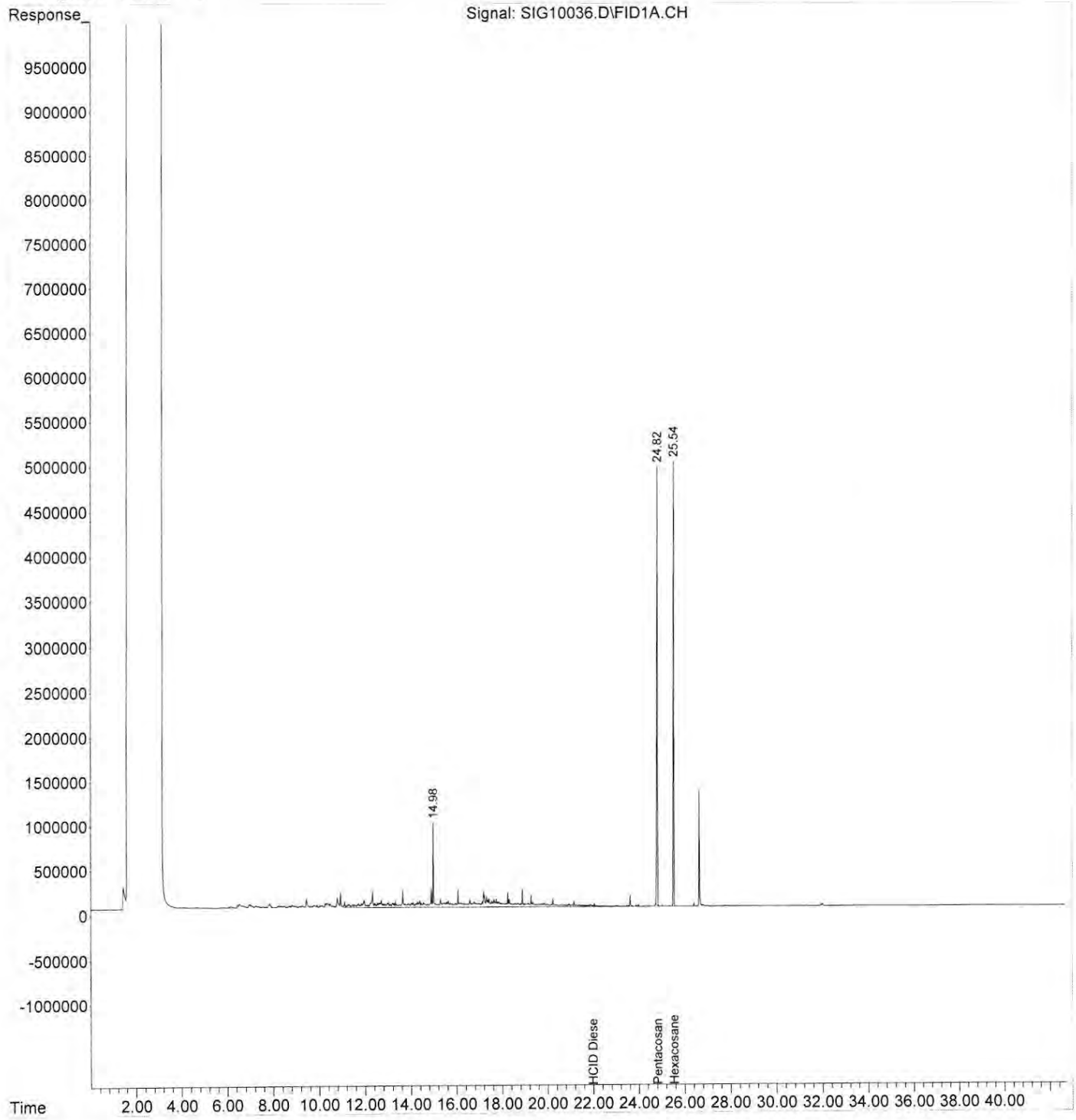
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10036.D Vial: 24
Acq On : 12 Oct 2022 00:29 Operator: ARC
Sample : BCJ0271-BS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 8:13 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10039.D Vial: 25
Acq On : 12 Oct 2022 3:15 Operator: ARC
Sample : WCJ0253-15 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 08:12:13 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

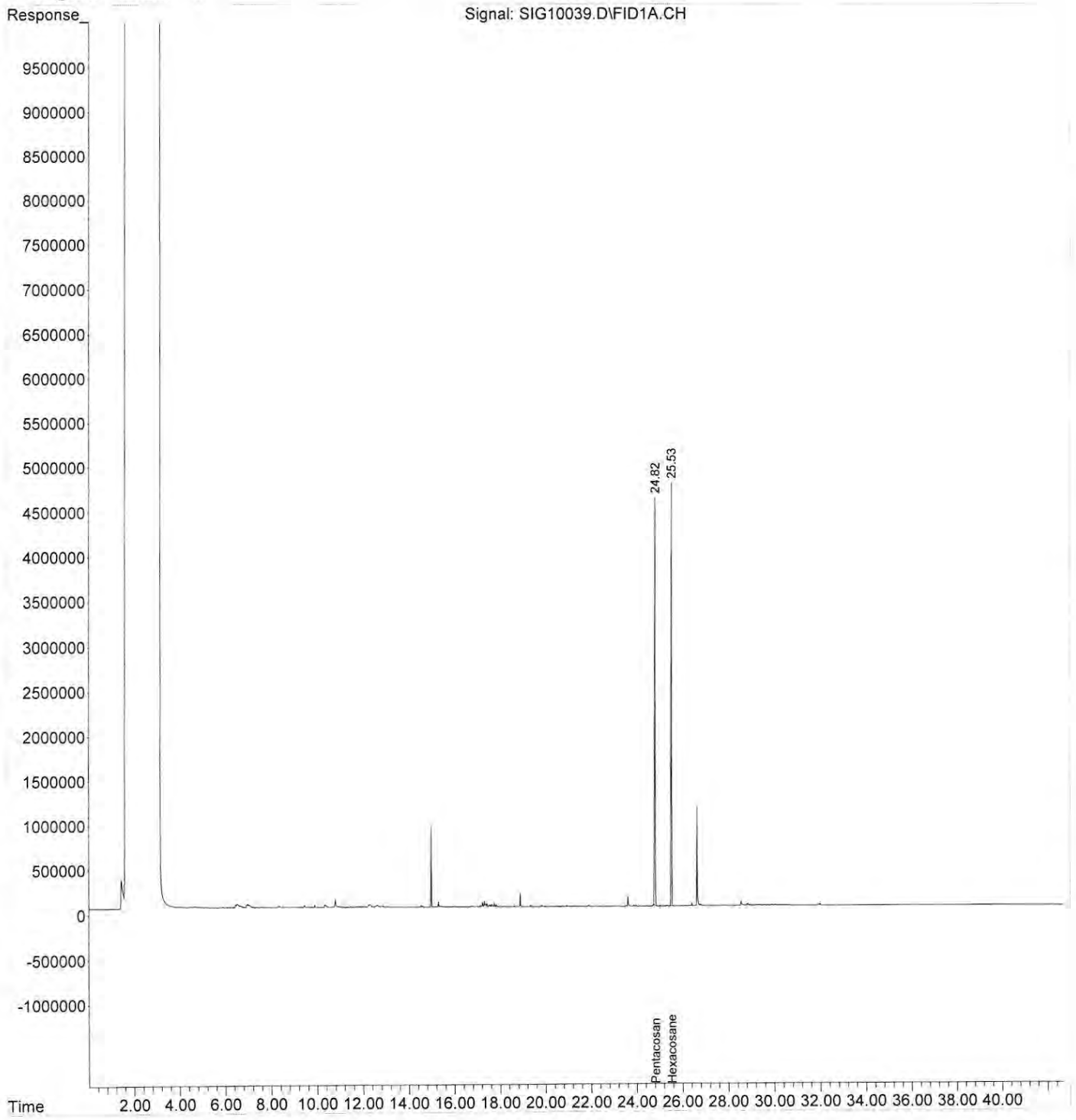
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.82	89412954	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.53	89082796	49.513	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	99.03%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4)	H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5)	H Mineral Oil	0.00	0	N.D.	ppm	
6)	h HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7)	h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8)	h HCID Oil (>C14)	0.00	0	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10039.D Vial: 25
Acq On : 12 Oct 2022 3:15 Operator: ARC
Sample : WCJ0253-15 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 8:28 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10040.D Vial: 26
Acq On : 12 Oct 2022 4:10 Operator: ARC
Sample : BCH0271-MS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 08:12:14 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.82	89007799	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.53	89513067	49.979	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	99.96%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	21.97	261075403	210.171	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

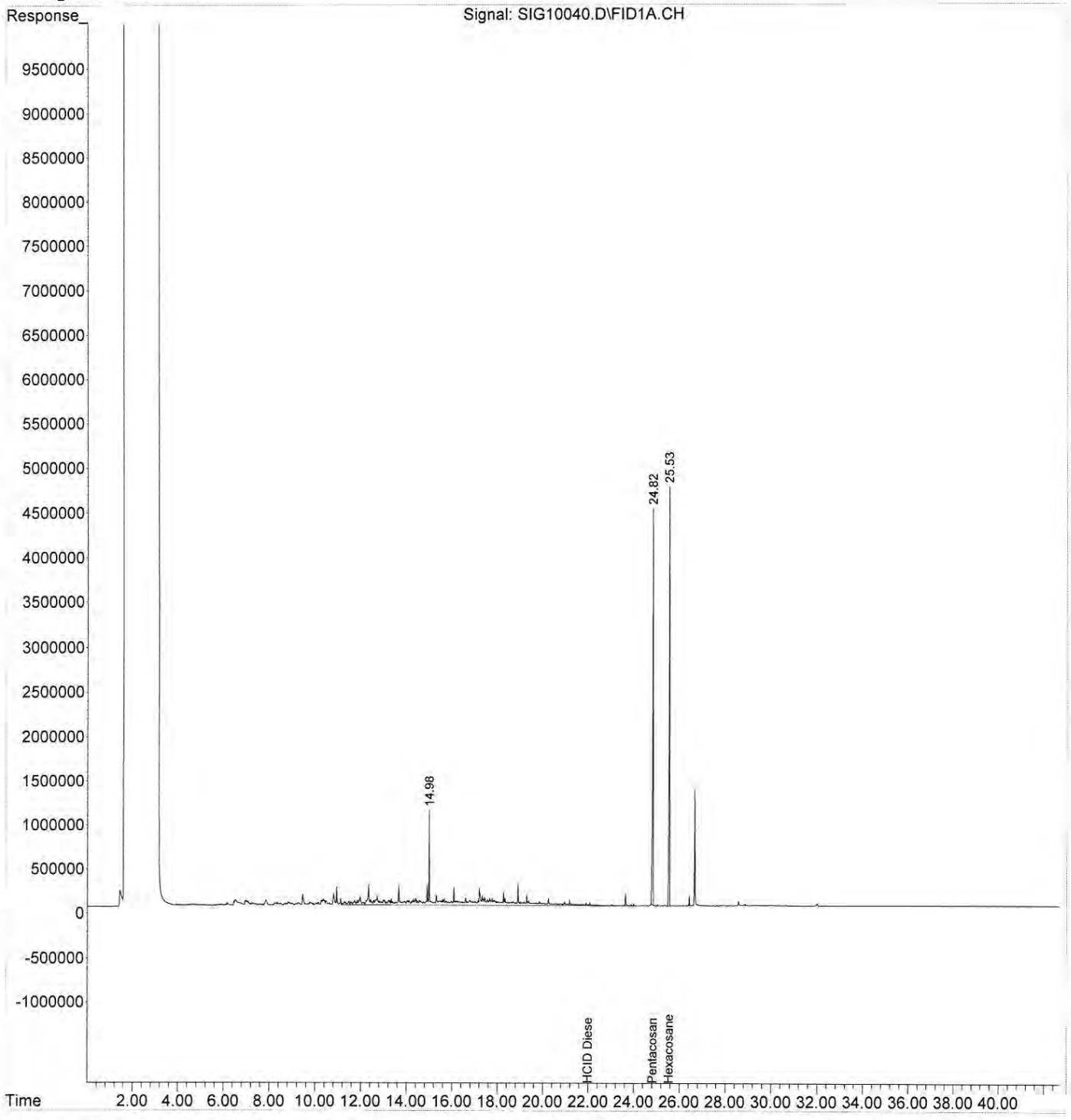
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10040.D Vial: 26
Acq On : 12 Oct 2022 4:10 Operator: ARC
Sample : BCH0271-MS1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 8:14 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10041.D Vial: 27
Acq On : 12 Oct 2022 5:05 Operator: ARC
Sample : BCJ0271-MSD1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 08:12:16 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

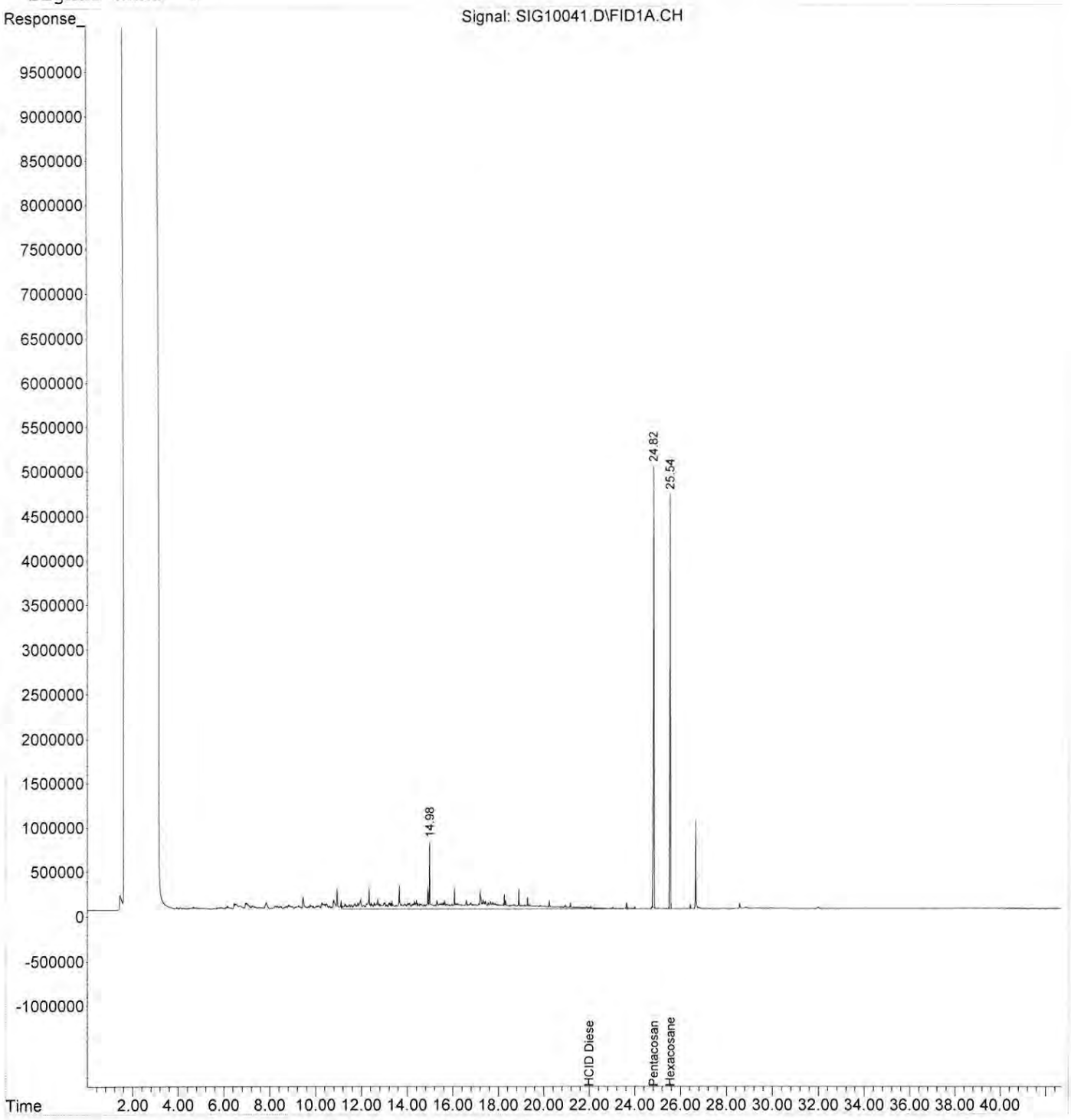
	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.82	110796313	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.54	97278804	43.633	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	87.27%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	21.97	304986304	197.238	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10041.D Vial: 27
Acq On : 12 Oct 2022 5:05 Operator: ARC
Sample : BCJ0271-MSD1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 8:14 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10042.D Vial: 28
Acq On : 12 Oct 2022 6:00 Operator: ARC
Sample : WCJ0253-01 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 08:12:17 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.82	104784439	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.54	101489291	48.134	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	96.27%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

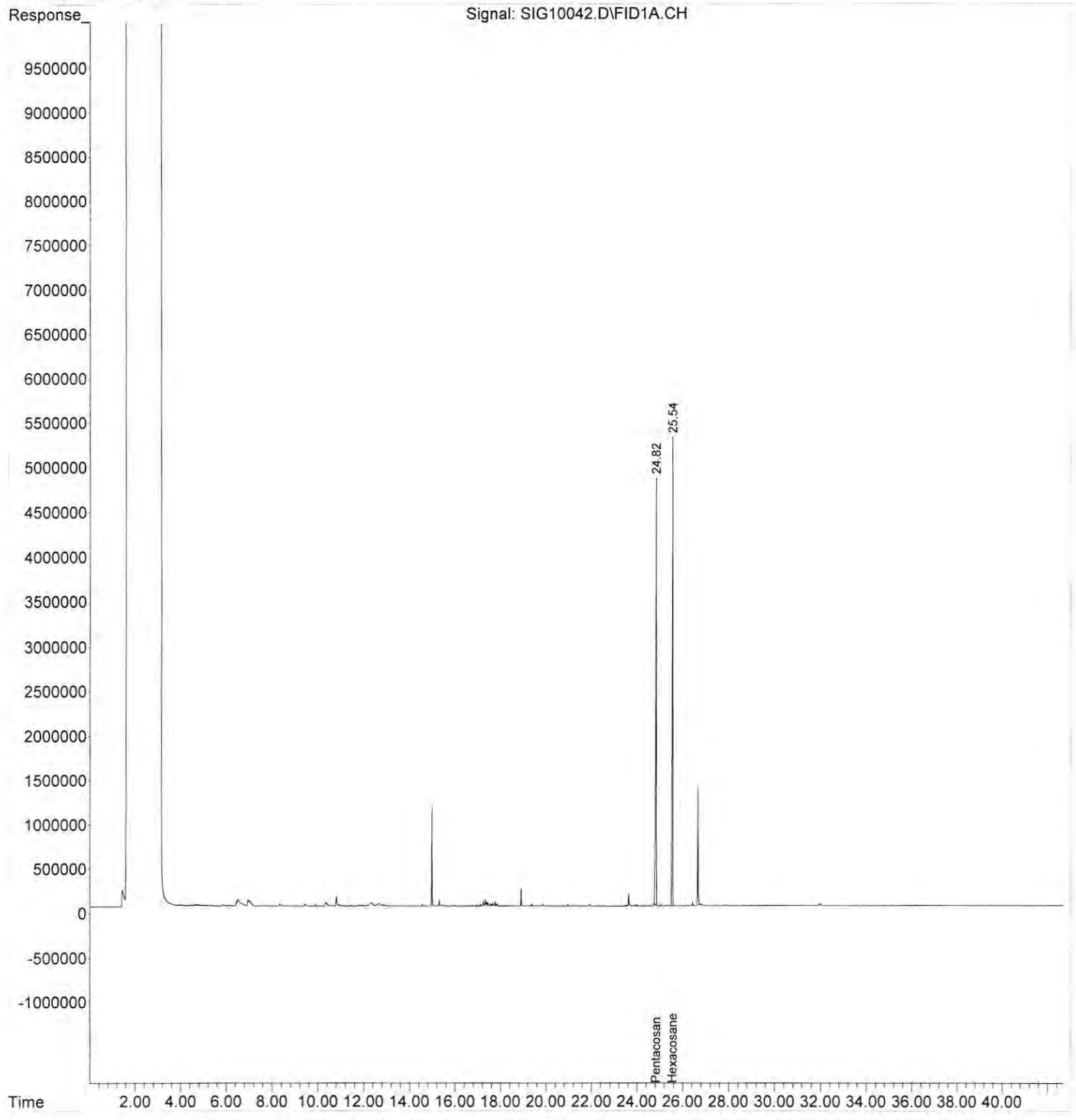
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10042.D Vial: 28
Acq On : 12 Oct 2022 6:00 Operator: ARC
Sample : WCJ0253-01 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 8:29 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10043.D Vial: 29
Acq On : 12 Oct 2022 6:54 Operator: ARC
Sample : BCJ0271-DUP1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 08:12:18 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.81	89801453	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.53	88235425	48.830	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	97.66%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

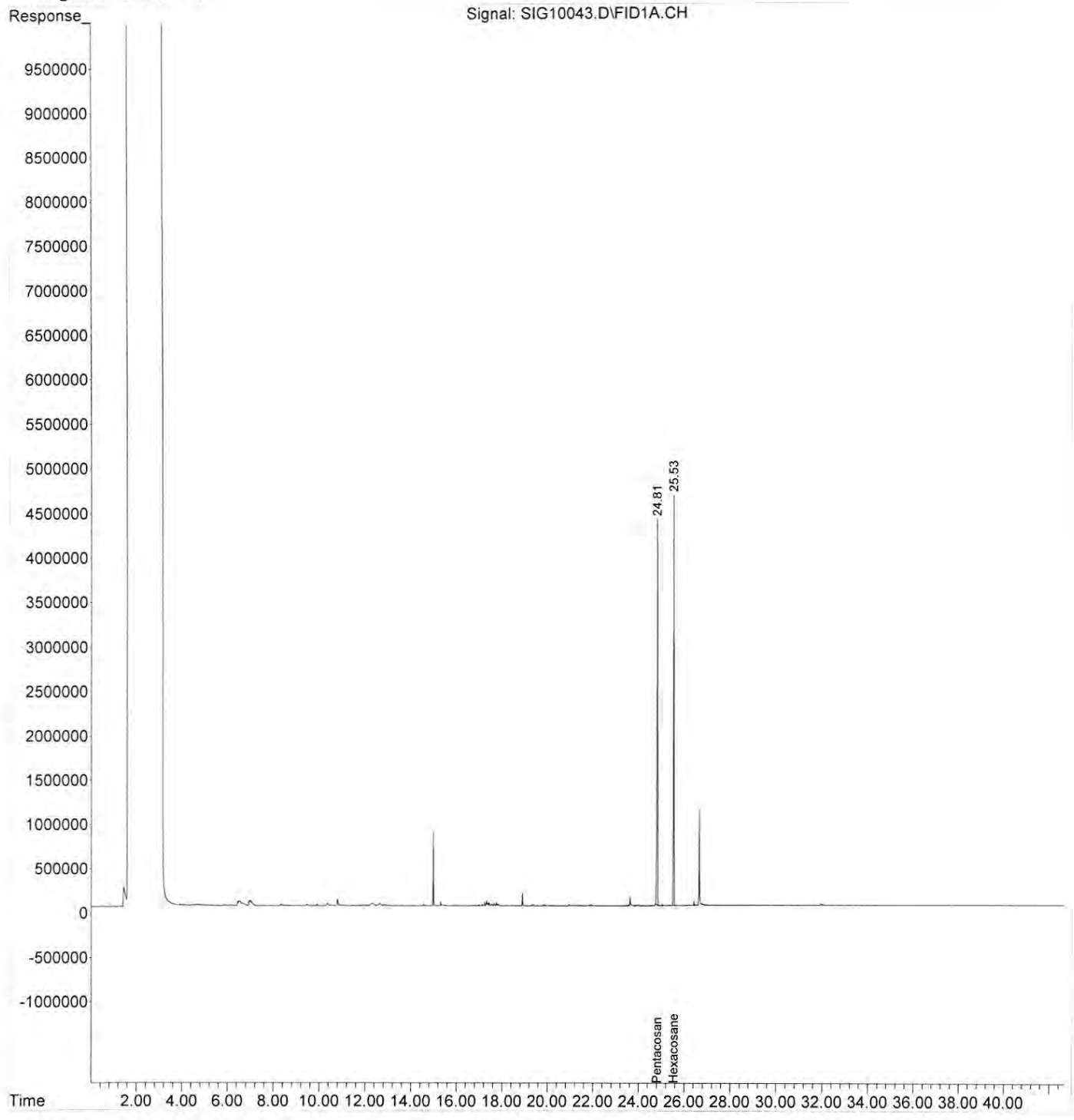
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10043.D Vial: 29
Acq On : 12 Oct 2022 6:54 Operator: ARC
Sample : BCJ0271-DUP1 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 8:29 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10044.D Vial: 30
Acq On : 12 Oct 2022 7:49 Operator: ARC
Sample : WCJ0253-02 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 08:32:42 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.82	92610884	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.53	94618946	50.774	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	101.55%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

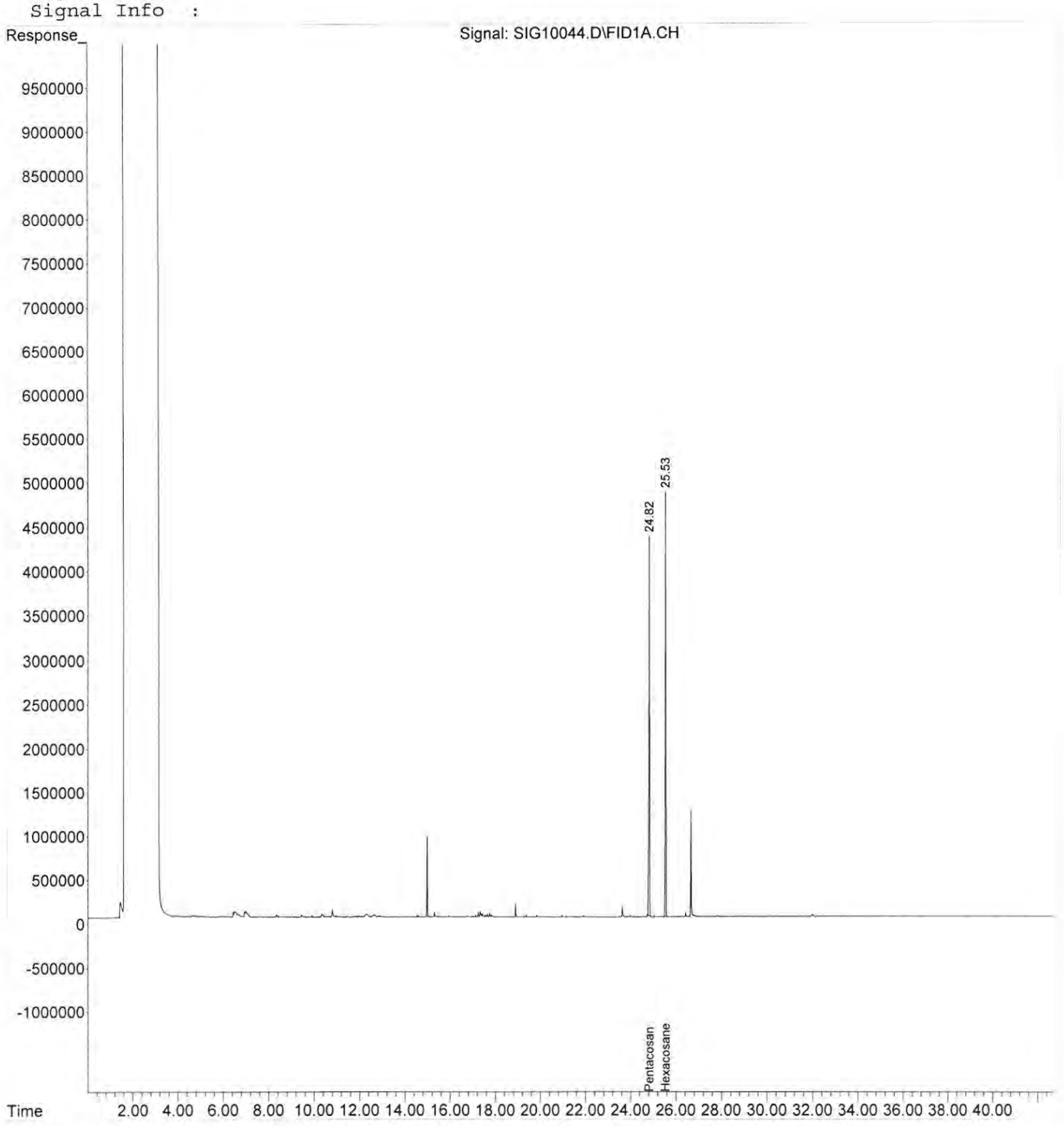
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10044.D Vial: 30
Acq On : 12 Oct 2022 7:49 Operator: ARC
Sample : WCJ0253-02 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 8:33 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10045.D Vial: 31
Acq On : 12 Oct 2022 8:44 Operator: ARC
Sample : WCJ0253-03 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 09:26:47 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.82	95177406	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.53	94121097	49.145	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	98.29%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

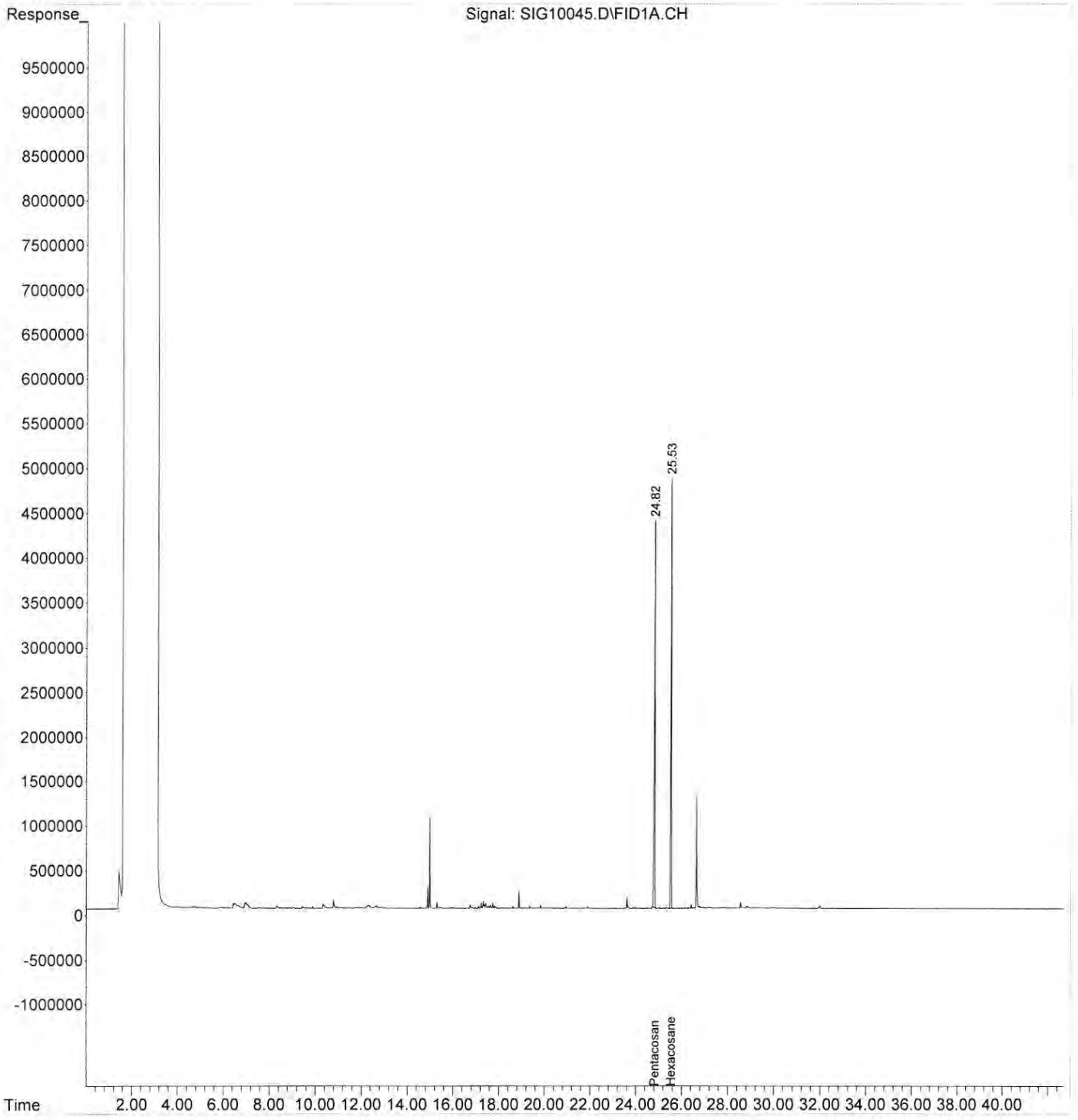
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10045.D Vial: 31
Acq On : 12 Oct 2022 8:44 Operator: ARC
Sample : WCJ0253-03 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 9:27 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10046.D Vial: 32
Acq On : 12 Oct 2022 9:40 Operator: ARC
Sample : WCJ0253-04 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 10:38:24 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.81	77583119	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.53	78732116	50.433	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	100.87%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

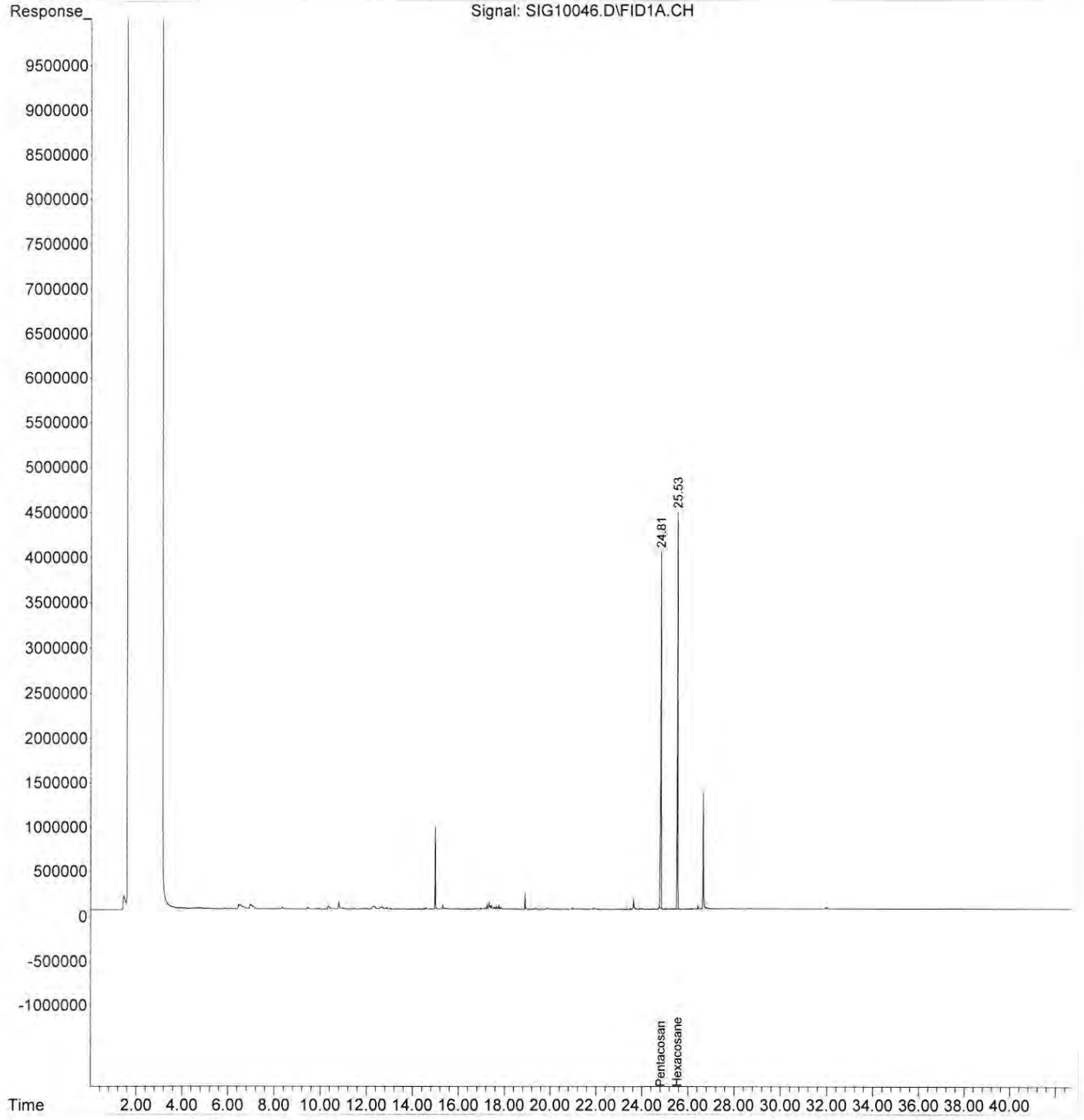
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10046.D Vial: 32
Acq On : 12 Oct 2022 9:40 Operator: ARC
Sample : WCJ0253-04 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 12 10:39 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10053.D Vial: 33
Acq On : 12 Oct 2022 16:11 Operator: ARC
Sample : WCJ0253-05 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 08:02:43 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.82	94824231	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.54	106126636	55.620	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	111.24%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

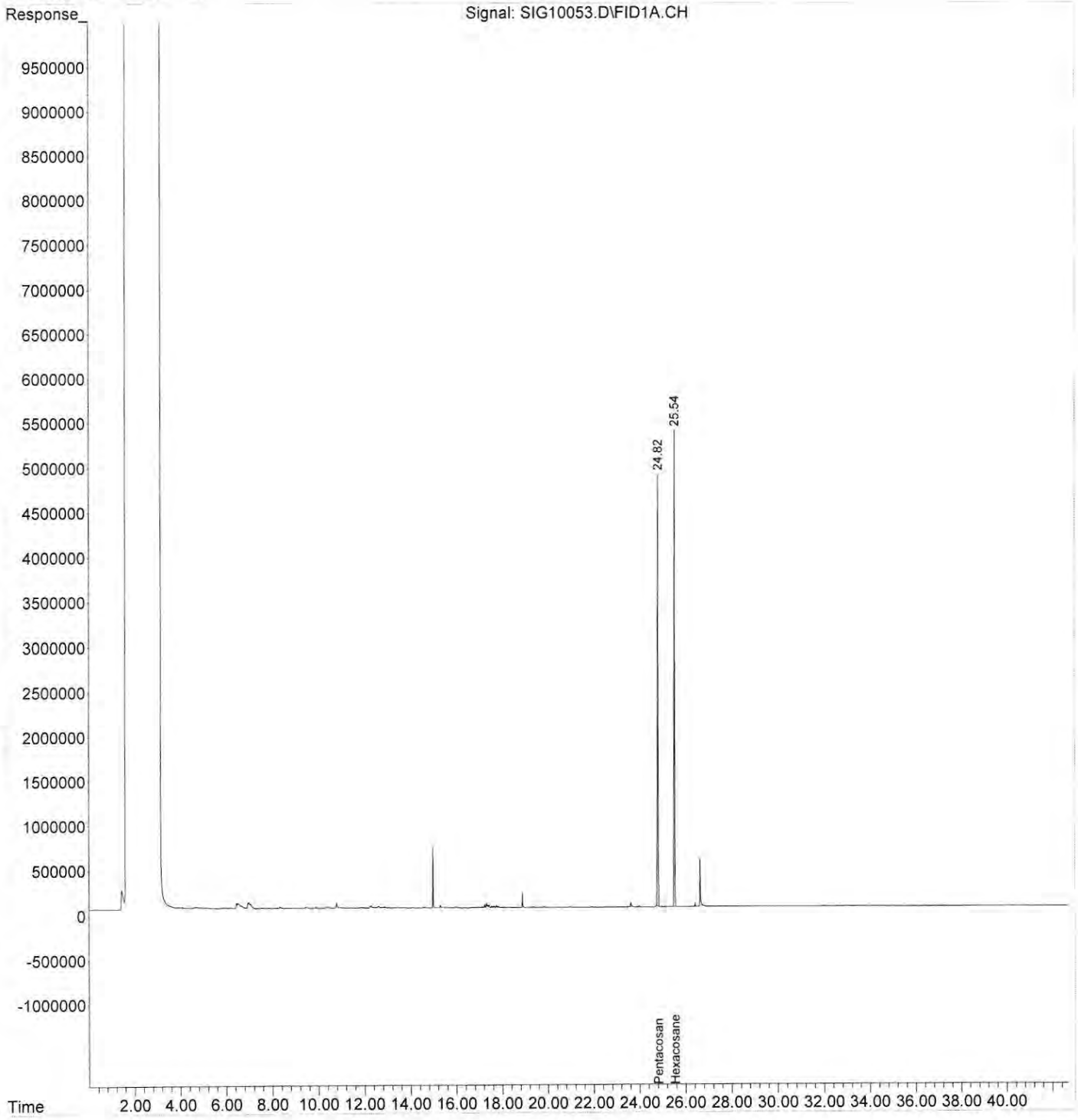
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10053.D Vial: 33
Acq On : 12 Oct 2022 16:11 Operator: ARC
Sample : WCJ0253-05 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 8:05 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10054.D Vial: 34
Acq On : 12 Oct 2022 17:06 Operator: ARC
Sample : WCJ0253-06 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 08:02:44 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.82	104209654	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.54	104521091	49.845	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	99.69%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

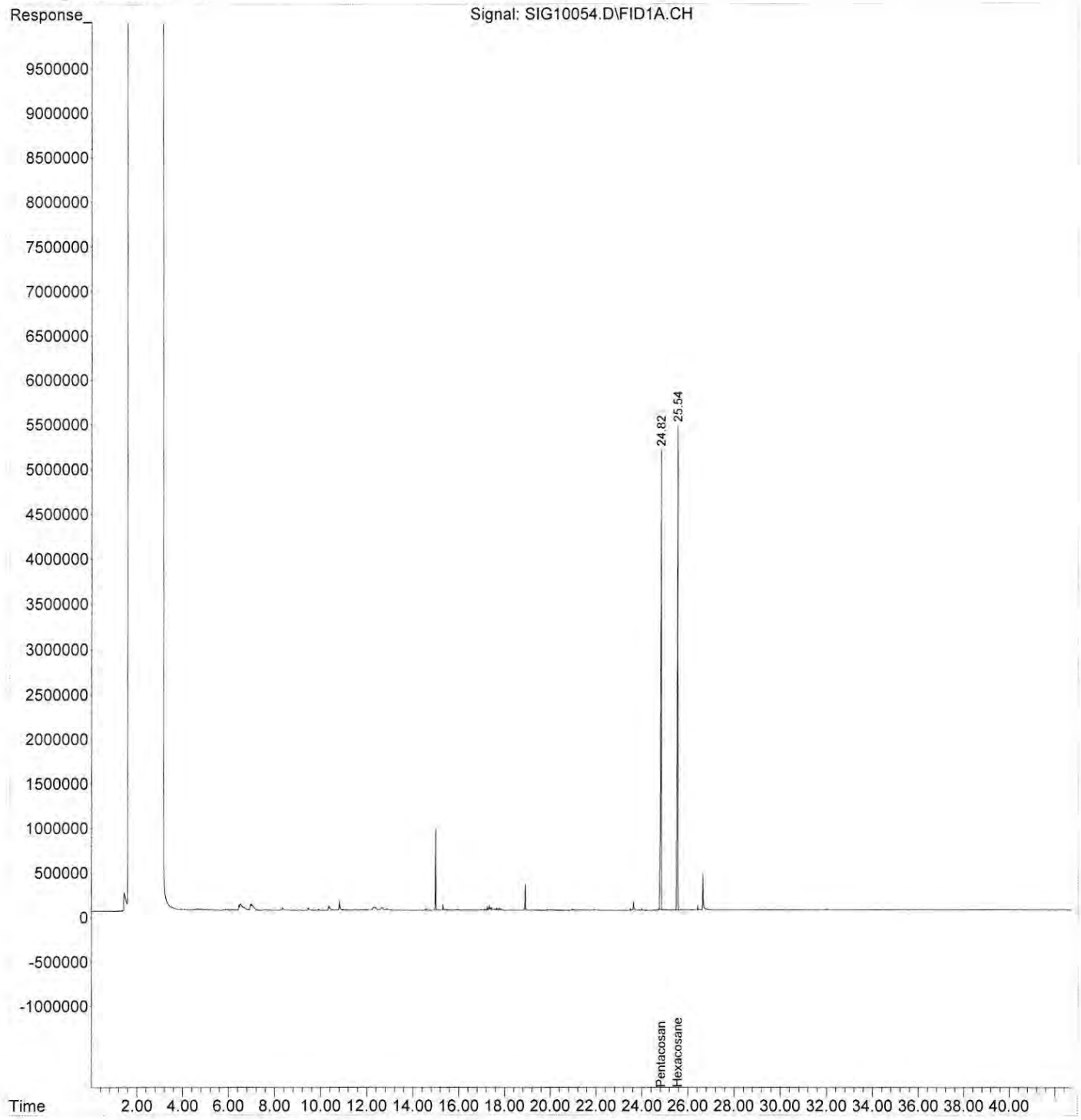
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10054.D Vial: 34
Acq On : 12 Oct 2022 17:06 Operator: ARC
Sample : WCJ0253-06 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 8:06 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10055.D Vial: 35
Acq On : 12 Oct 2022 18:02 Operator: ARC
Sample : WCJ0253-07 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 08:02:45 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.82	92856775	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.53	78395284	41.957	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	83.91%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

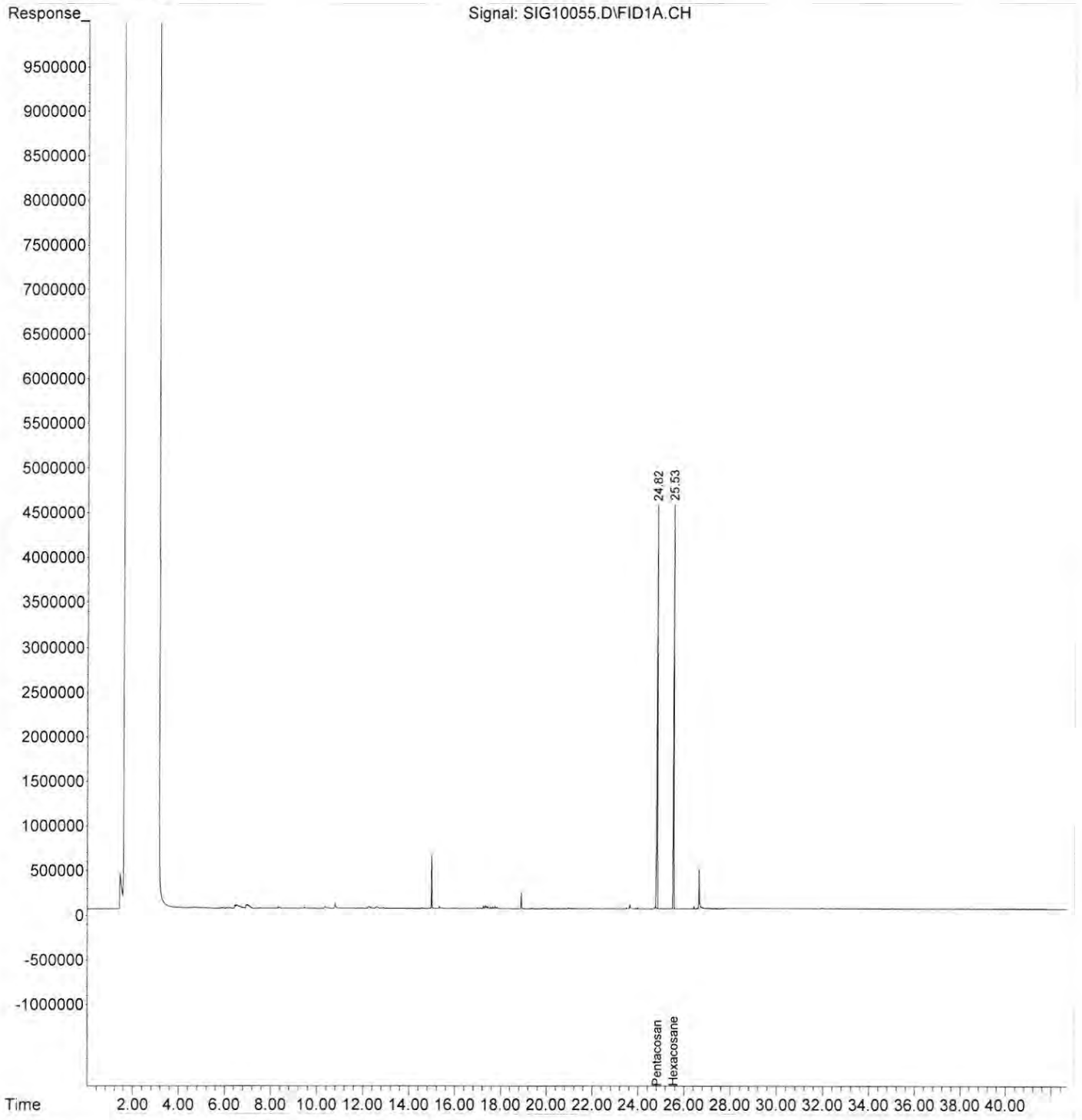
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10055.D Vial: 35
Acq On : 12 Oct 2022 18:02 Operator: ARC
Sample : WCJ0253-07 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 8:07 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10056.D Vial: 36
Acq On : 12 Oct 2022 18:58 Operator: ARC
Sample : WCJ0253-08 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 08:02:47 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.82	109344131	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.53	77383982	35.171	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	70.34%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4)	H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5)	H Mineral Oil	0.00	0	N.D.	ppm	
6)	h HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7)	h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8)	h HCID Oil (>C14)	0.00	0	N.D.	ppm	

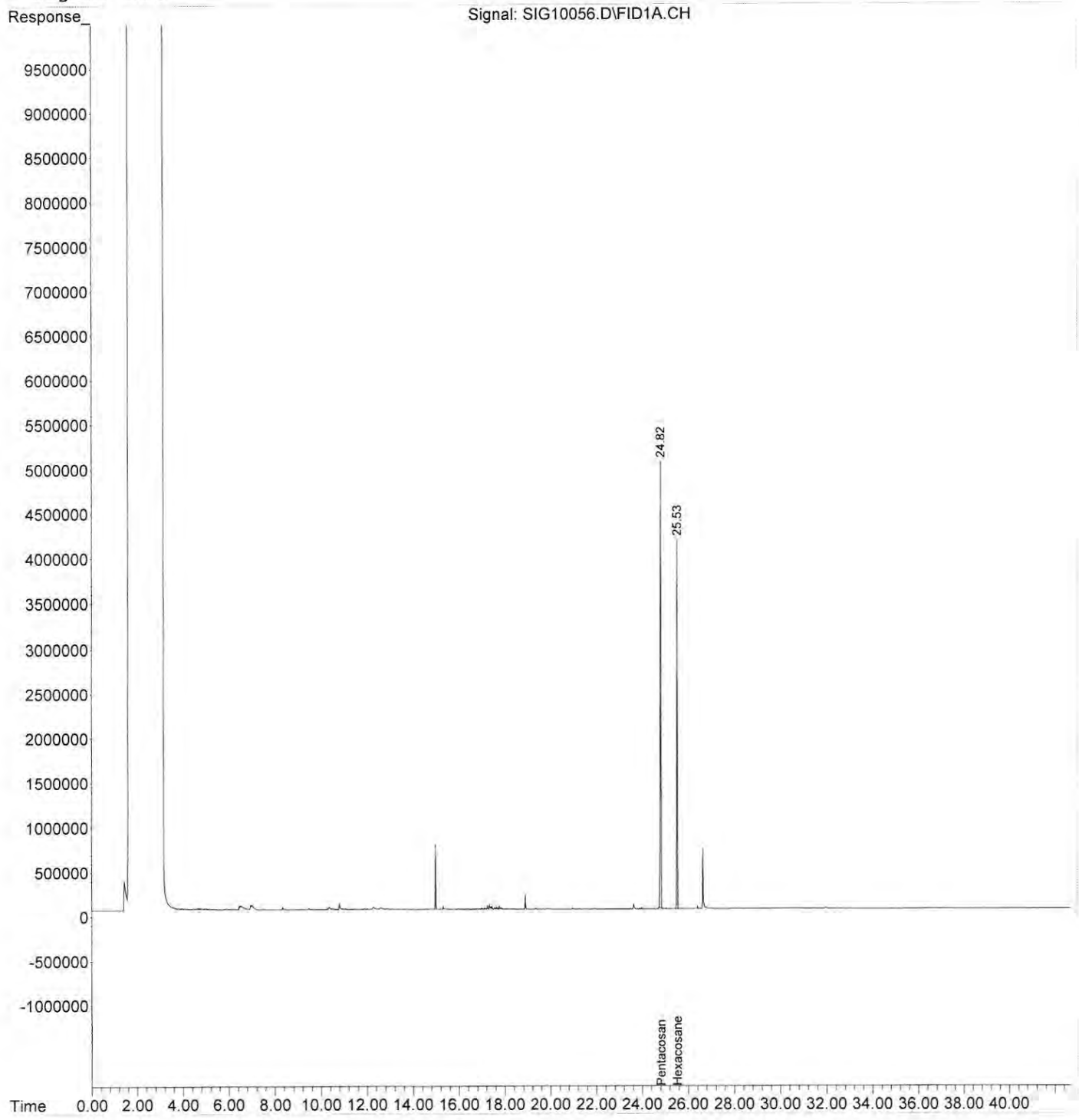
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10056.D Vial: 36
Acq On : 12 Oct 2022 18:58 Operator: ARC
Sample : WCJ0253-08 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 8:08 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10057.D Vial: 37
Acq On : 12 Oct 2022 19:54 Operator: ARC
Sample : WCJ0253-09 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 08:02:48 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.82	113443613	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.53	84499196	37.017	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	74.03%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

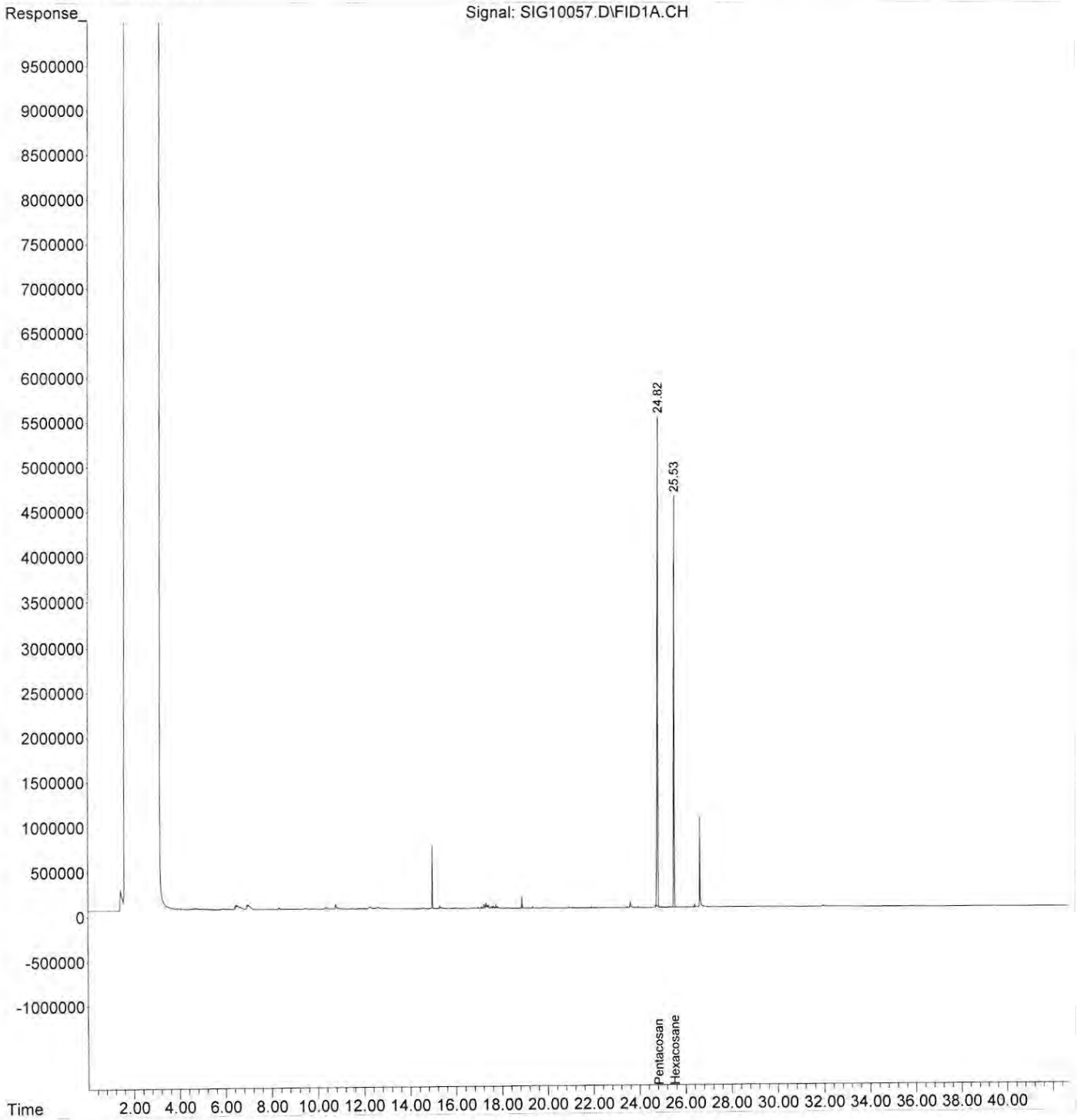
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10057.D Vial: 37
Acq On : 12 Oct 2022 19:54 Operator: ARC
Sample : WCJ0253-09 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 8:09 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10058.D Vial: 38
Acq On : 12 Oct 2022 20:49 Operator: ARC
Sample : WCJ0253-10 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 08:02:49 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.82	103051589	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.54	99232305	47.855	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	95.71%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4)	H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5)	H Mineral Oil	0.00	0	N.D.	ppm	
6)	h HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7)	h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8)	h HCID Oil (>C14)	0.00	0	N.D.	ppm	

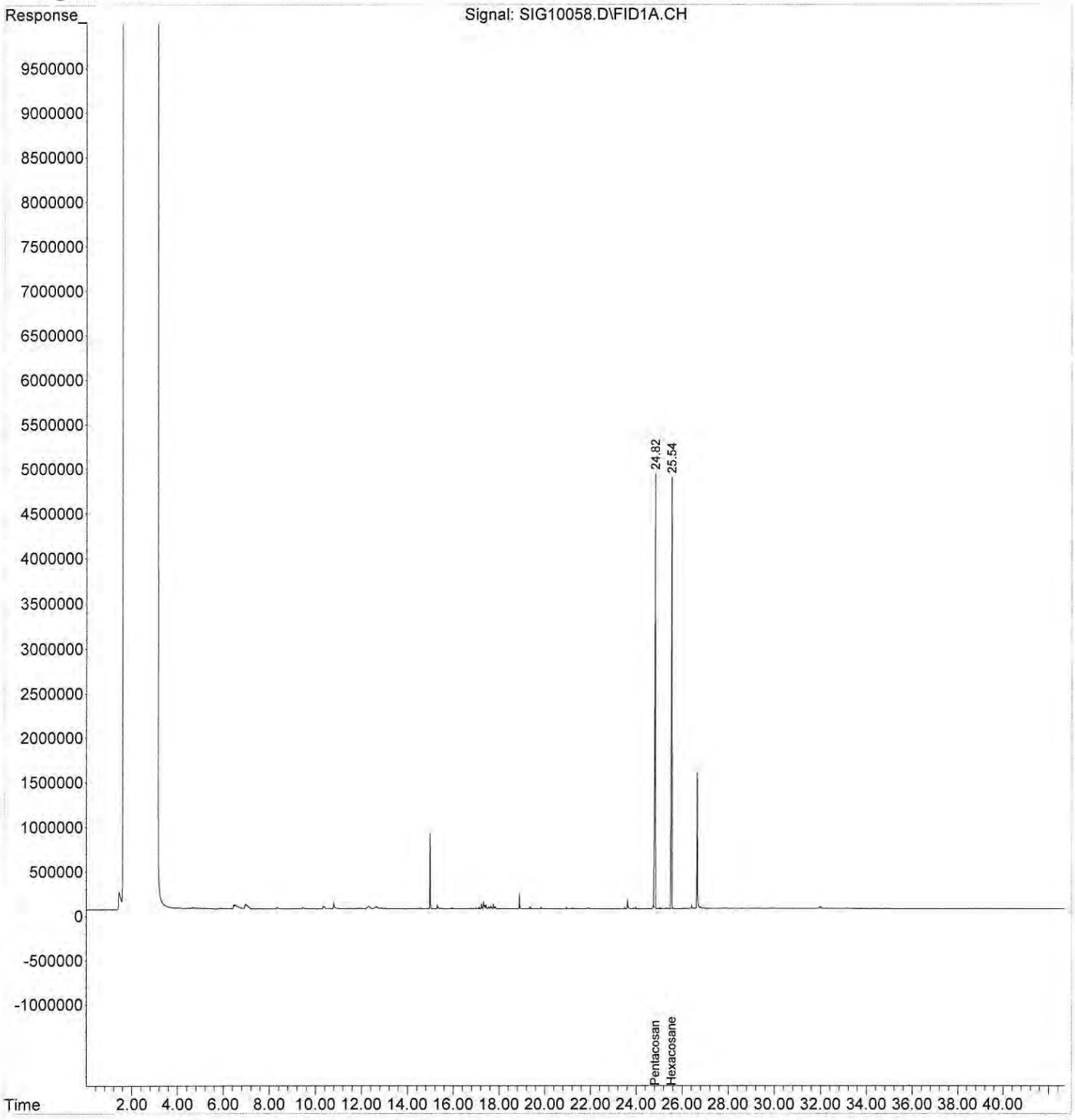
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10058.D Vial: 38
Acq On : 12 Oct 2022 20:49 Operator: ARC
Sample : WCJ0253-10 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 8:09 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10059.D Vial: 39
Acq On : 12 Oct 2022 21:45 Operator: ARC
Sample : WCJ0253-11 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 08:02:50 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.82	103819181	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.53	90404160	43.275	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	86.55%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

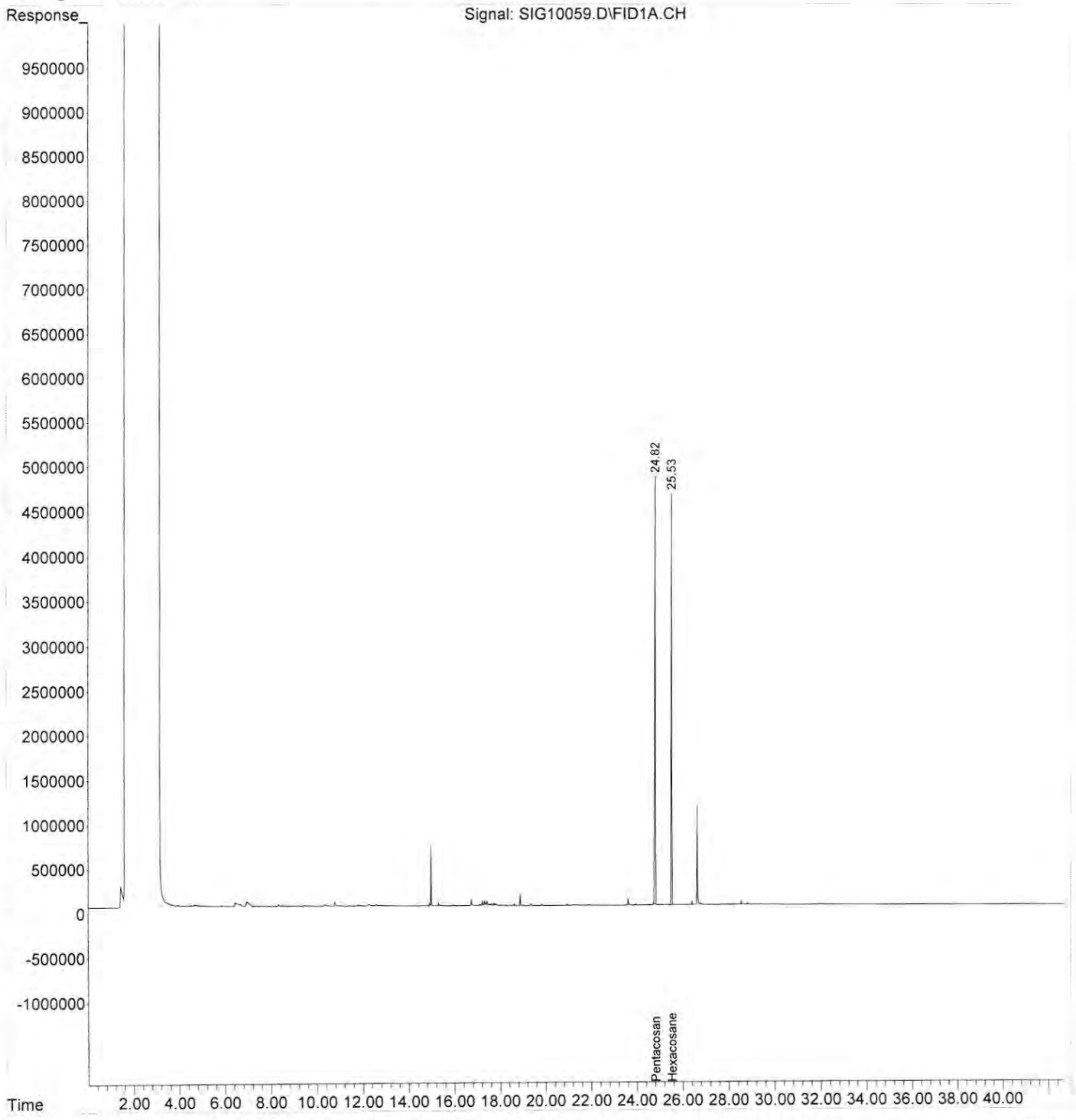
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10059.D Vial: 39
Acq On : 12 Oct 2022 21:45 Operator: ARC
Sample : WCJ0253-11 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 8:13 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10060.D Vial: 40
Acq On : 12 Oct 2022 22:40 Operator: ARC
Sample : WCJ0253-12 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 08:02:52 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.82	108117939	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.54	100785360	46.326	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	92.65%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

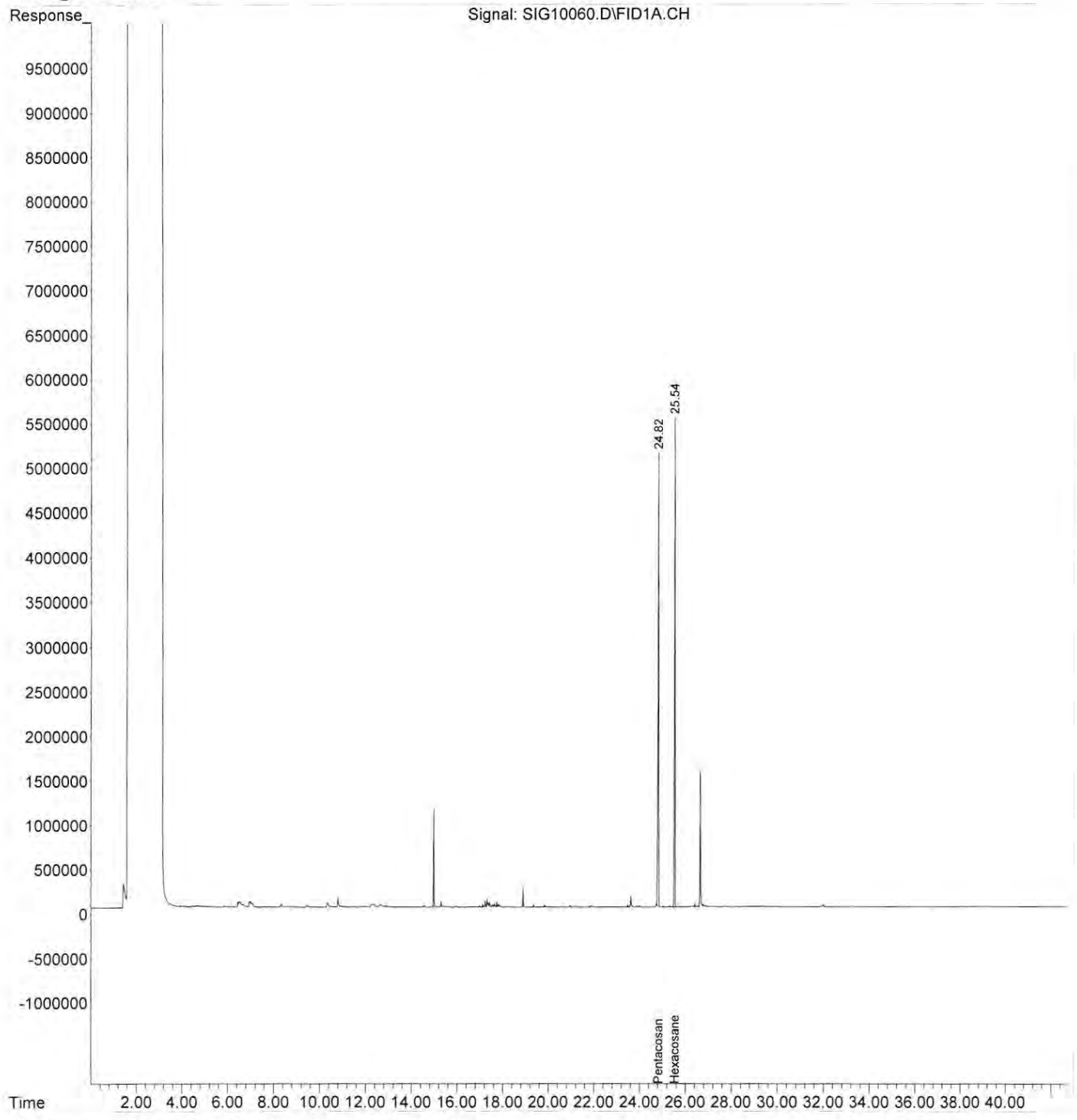
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10060.D Vial: 40
Acq On : 12 Oct 2022 22:40 Operator: ARC
Sample : WCJ0253-12 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 8:14 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10061.D Vial: 41
Acq On : 12 Oct 2022 23:35 Operator: ARC
Sample : WCJ0253-13 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 08:02:53 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.82	100011539	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.53	92501669	45.965	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	91.93%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

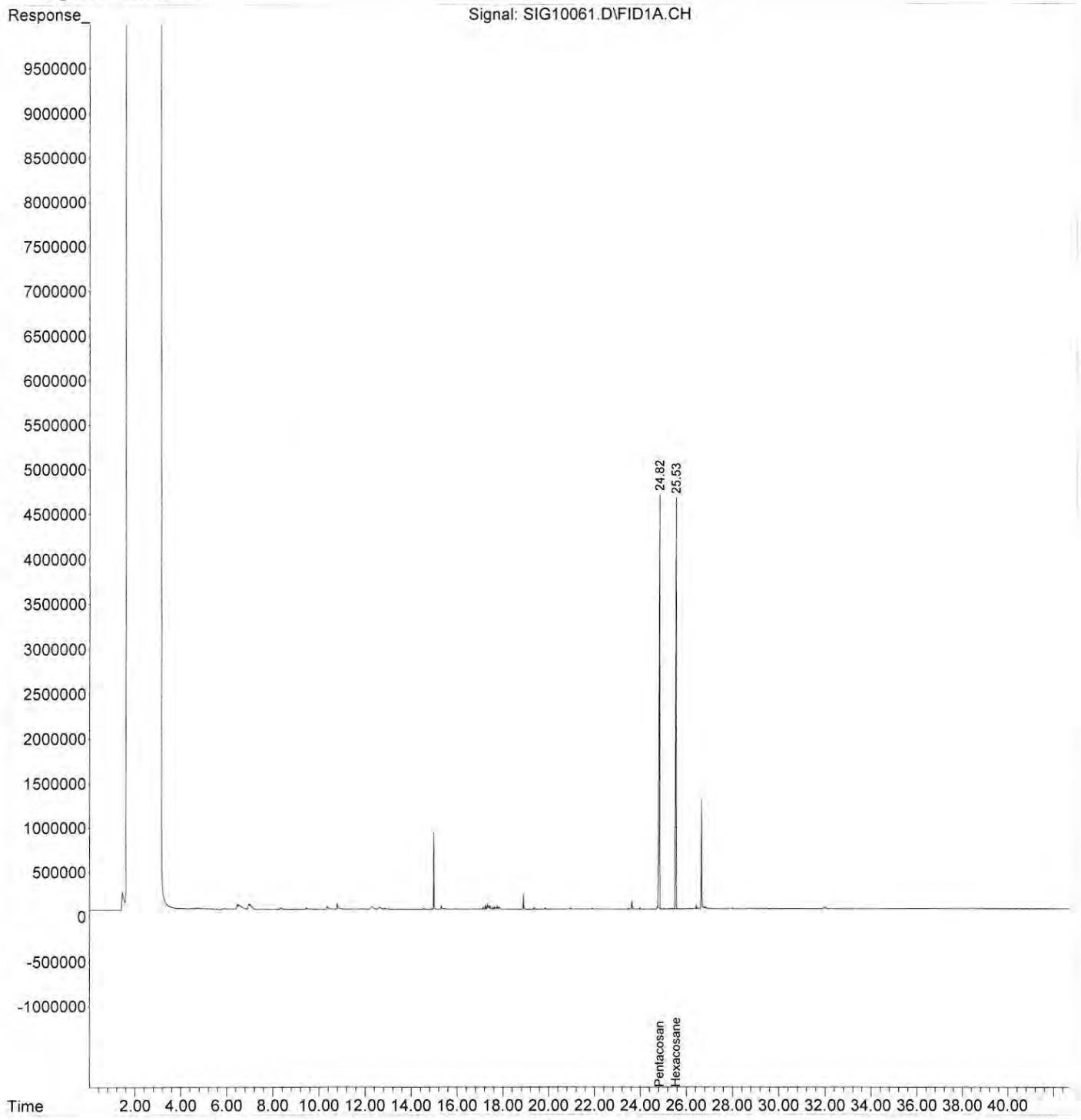
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10061.D Vial: 41
Acq On : 12 Oct 2022 23:35 Operator: ARC
Sample : WCJ0253-13 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 8:14 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10062.D Vial: 42
Acq On : 13 Oct 2022 00:30 Operator: ARC
Sample : WCJ0253-14 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 08:02:54 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.81	70883096	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.52	70532718	49.451	ppm	m
Spiked Amount	50.000 Range 50 - 150		Recovery =	98.90%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4)	H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5)	H Mineral Oil	0.00	0	N.D.	ppm	
6)	h HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7)	h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8)	h HCID Oil (>C14)	0.00	0	N.D.	ppm	

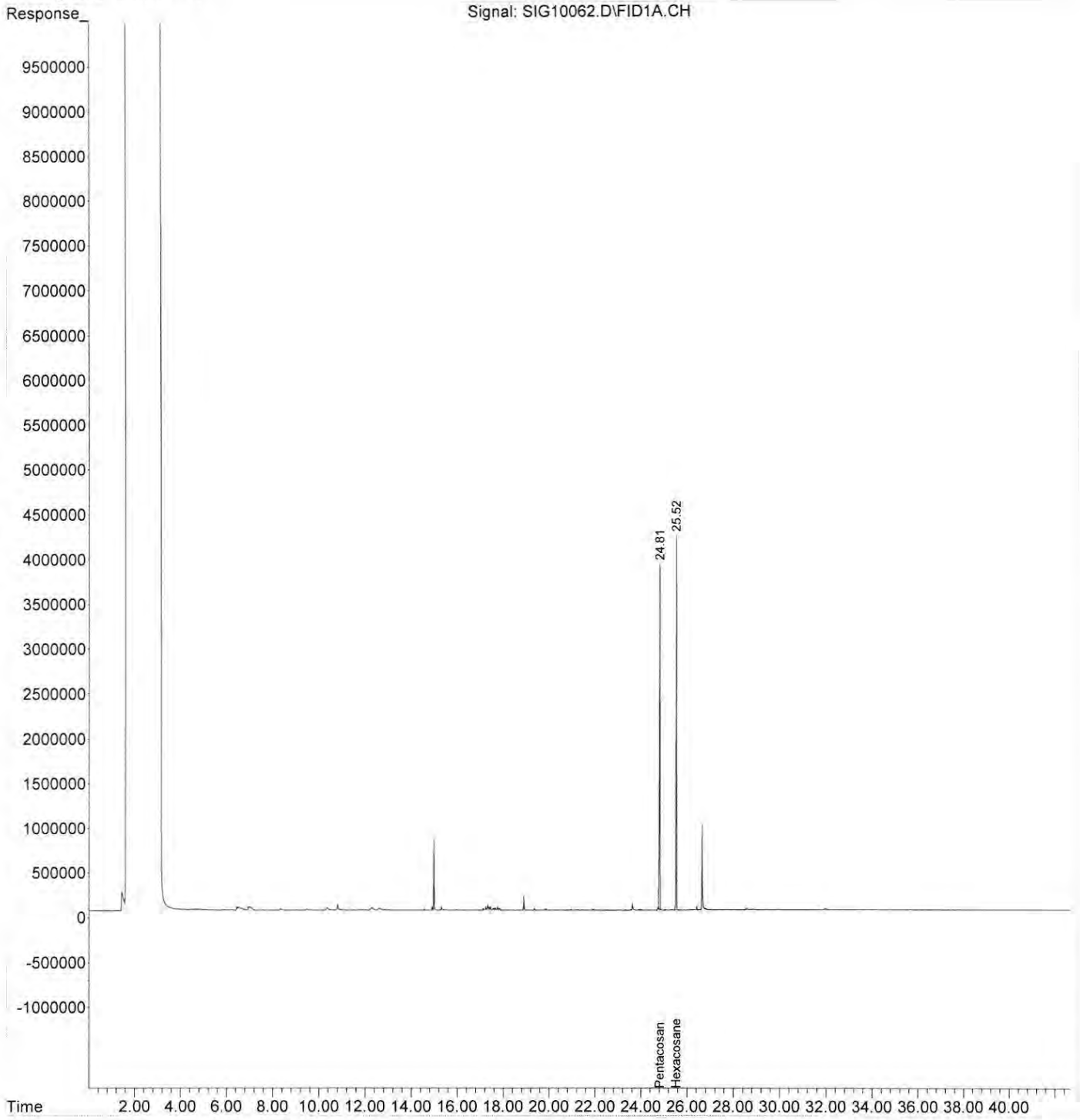
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10062.D Vial: 42
Acq On : 13 Oct 2022 00:30 Operator: ARC
Sample : WCJ0253-14 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 8:17 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10063.D Vial: 43
Acq On : 13 Oct 2022 1:25 Operator: ARC
Sample : WCJ0253-16 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 08:02:55 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1)	I Pentacosane	24.81	65273753	50.000	ppm	m
	System Monitoring Compounds					
2)	S Hexacosane	25.52	65432301	49.817	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	99.63%		
	Target Compounds					
3)	H TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4)	H TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5)	H Mineral Oil	0.00	0	N.D.	ppm	
6)	h HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7)	h HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8)	h HCID Oil (>C14)	0.00	0	N.D.	ppm	

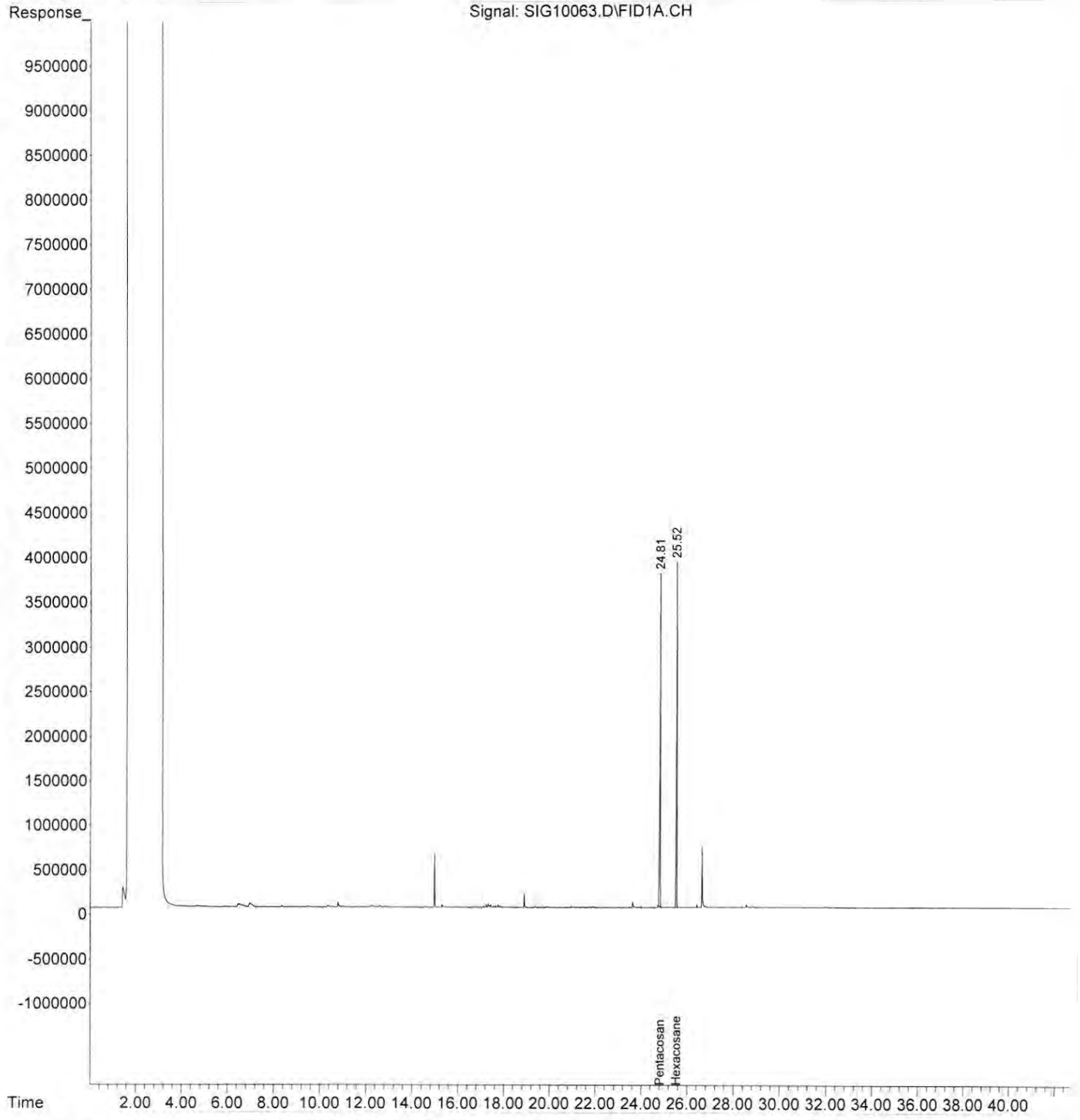
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10063.D Vial: 43
Acq On : 13 Oct 2022 1:25 Operator: ARC
Sample : WCJ0253-16 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 8:18 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10064.D Vial: 44
Acq On : 13 Oct 2022 2:20 Operator: ARC
Sample : WCJ0253-17 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 08:02:57 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Initial Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :

	Compound	R.T.	Response	Conc	Units	
	Internal Standards					
1) I	Pentacosane	24.81	85641741	50.000	ppm	m
	System Monitoring Compounds					
2) S	Hexacosane	25.53	85159011	49.417	ppm	m
Spiked Amount	50.000	Range 50 - 150	Recovery =	98.83%		
	Target Compounds					
3) H	TPH Diesel (C12-C14)	0.00	0	N.D.	ppm	
4) H	TPHDX-Lube Oil (>C14)	0.00	0	N.D.	ppm	
5) H	Mineral Oil	0.00	0	N.D.	ppm	
6) h	HCID Gas (C7-C12)	0.00	0	N.D.	ppm	
7) h	HCID Diesel (C12-C14)	0.00	0	N.D.	ppm	
8) h	HCID Oil (>C14)	0.00	0	N.D.	ppm	

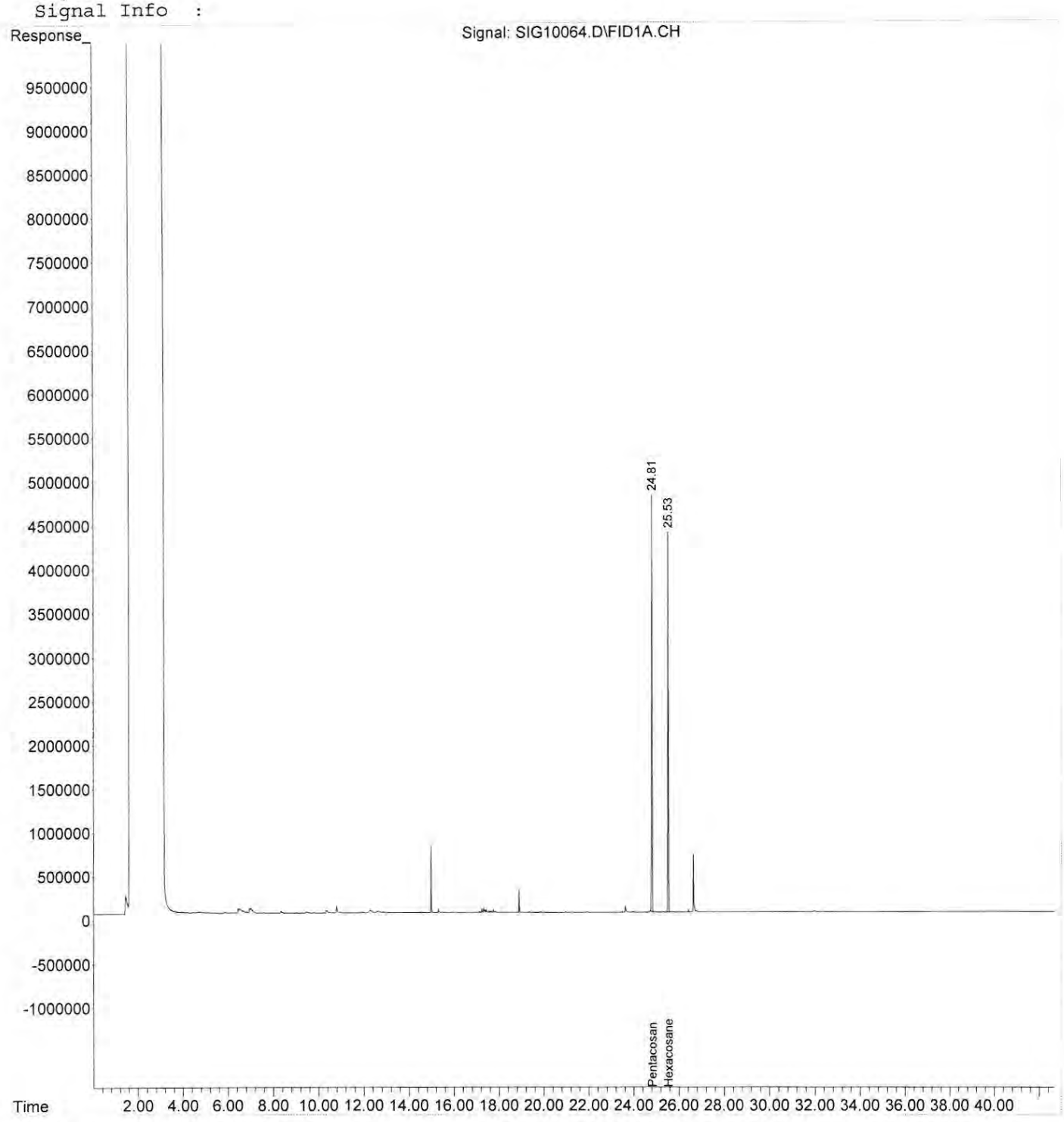
(f)=RT Delta > 1/2 Window (m)=manual int.

Quantitation Report (QT Reviewed)

Data File : W:\HPCHEM\1\2022DATA\101022\SIG10064.D Vial: 44
Acq On : 13 Oct 2022 2:20 Operator: ARC
Sample : WCJ0253-17 Inst : HP G1530A
Misc : Multiplr: 1.00
IntFile : EVENTS1.E
Quant Time: Oct 13 8:19 2022 Quant Results File: 220907LOWDHT.RES

Quant Method : W:\HPCHEM\1...\220907LOWDHT.M (Chemstation Integrator)
Title :
Last Update : Thu Sep 08 08:10:22 2022
Response via : Multiple Level Calibration
DataAcq Meth : DXHCID5.M

Volume Inj. :
Signal Phase :
Signal Info :



PREPARATION BENCH SHEET
Metals

BCJ0331

Matrix: Water **Prepared using: Metals - W 3010 Digest**

Lab Number	Prepared - By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
BCJ0331-BLK1	10/11/22 09:40 - JLG	50	50				
BCJ0331-BS1	10/11/22 09:40 - JLG	50	50	2203383		250	
BCJ0331-MS1	10/11/22 09:40 - JLG	50	50	2203383	WCJ0253-14	250	
BCJ0331-MS2	10/11/22 09:40 - JLG	50	50	2203383	WCJ0253-15	250	
BCJ0331-MSD1	10/11/22 09:40 - JLG	50	50	2203383	WCJ0253-14	250	
BCJ0331-MSD2	10/11/22 09:40 - JLG	50	50	2203383	WCJ0253-15	250	
WCJ0253-01 Analytes: Arsenic	10/11/22 09:40 - JLG	50	50	Client: Cardno - Hawaii			
WCJ0253-02 Analytes: Arsenic	10/11/22 09:40 - JLG	50	50	Client: Cardno - Hawaii			
WCJ0253-03 Analytes: Arsenic	10/11/22 09:40 - JLG	50	50	Client: Cardno - Hawaii			
WCJ0253-04 Analytes: Arsenic	10/11/22 09:40 - JLG	50	50	Client: Cardno - Hawaii			
WCJ0253-05 Analytes: Arsenic	10/11/22 09:40 - JLG	50	50	Client: Cardno - Hawaii			
WCJ0253-06 Analytes: Arsenic	10/11/22 09:40 - JLG	50	50	Client: Cardno - Hawaii			
WCJ0253-07 Analytes: Arsenic	10/11/22 09:40 - JLG	50	50	Client: Cardno - Hawaii			
WCJ0253-08 Analytes: Arsenic	10/11/22 09:40 - JLG	50	50	Client: Cardno - Hawaii			
WCJ0253-09 Analytes: Arsenic	10/11/22 09:40 - JLG	50	50	Client: Cardno - Hawaii			
WCJ0253-10 Analytes: Arsenic	10/11/22 09:40 - JLG	50	50	Client: Cardno - Hawaii			

Batch Prepared By _____ Date _____ Analytical Run Date _____

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PREPARATION BENCH SHEET
Metals

BCJ0331

(Continued)

Matrix: Water **Prepared using: Metals - W 3010 Digest**

Lab Number	Prepared - By	Initial (mL)	Final (mL)	Spike ID	Source ID	ul Spike	Comments
WCJ0253-11 Analytes: Arsenic	10/11/22 09:40 - JLG	50	50	Client: Cardno - Hawaii			
WCJ0253-12 Analytes: Arsenic	10/11/22 09:40 - JLG	50	50	Client: Cardno - Hawaii			
WCJ0253-13 Analytes: Arsenic	10/11/22 09:40 - JLG	50	50	Client: Cardno - Hawaii			
WCJ0253-14 Analytes: Arsenic	10/11/22 09:40 - JLG	50	50	Client: Cardno - Hawaii			
WCJ0253-15 Analytes: Arsenic	10/11/22 09:40 - JLG	50	50	Client: Cardno - Hawaii			
WCJ0253-16 Analytes: Arsenic	10/11/22 09:40 - JLG	50	50	Client: Cardno - Hawaii			
WCJ0253-17 Analytes: Arsenic	10/11/22 09:40 - JLG	50	50	Client: Cardno - Hawaii			

Support Equipment: W PT-04 W PT-33 W PT-20, W PT-27, BLK2A

Reagent ID	Description	LotNum
2003793	Metals UHP Helium	314SPO0620A
2202257	P. Metals Digestion Vials N	052722
2202375	Nitric Acid	62082
2203062	P. 1:1 HCl-metals	59072
2203256	C. Internal Standard Mix	-
2203341	C. 10 ppb Tune Solution	-

Batch Prepared By _____ Date _____ Analytical Run Date _____

C:\Promium\Element\Print\bch_Metals_ls.rpt

US EPA Tune Check Report

Operator Name	Metals
Acq/Data Batch	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq. Date-Time	2022-10-14 09:56:46
Report Comment	---
Instrument Name	7800 JP17450949

[No Gas]

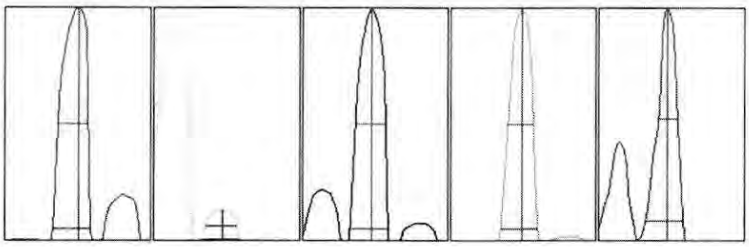
Sensitivity

Mass	Count	CPS	RSD%	RSD% (Required)	RSD% (Flag)
9	895	8945.80	0.847	5.000	
24	5092	50920.72	0.990	5.000	
59	2801	28006.84	0.633	5.000	
115	3597	35966.62	1.491	5.000	
208	1465	14652.12	0.927	5.000	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	903	889	897	885	899
24	5052	5132	5102	5145	5029
59	2776	2823	2796	2812	2796
115	3519	3661	3573	3610	3620
208	1449	1462	1459	1485	1471

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)	W-5%	W-5% (Required)	W-5% (Flag)
9	1474.93	9.05	8.90 - 9.10		0.779	0.900	
24	8231.43	23.95	23.90 - 24.10		0.783	0.900	
59	4753.81	58.95	58.90 - 59.10		0.782	0.900	
115	6948.41	115.00	114.90 - 115.10		0.771	0.900	
208	3256.48	207.95	207.90 - 208.10		0.775	0.900	

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

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.33 L/min	Dilution Gas	0.56 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	8.0 mm	S/C Temp	2 °C		

US EPA Tune Check Report

Lens Parameters

Extract 1	0.0 V	Omega Lens	12.4 V	Deflect	15.0 V
Extract 2	-195.0 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	167	Axis Gain	1.0041	QP Bias	-3.0 V
Mass Offset	124	Axis Offset	0.02		

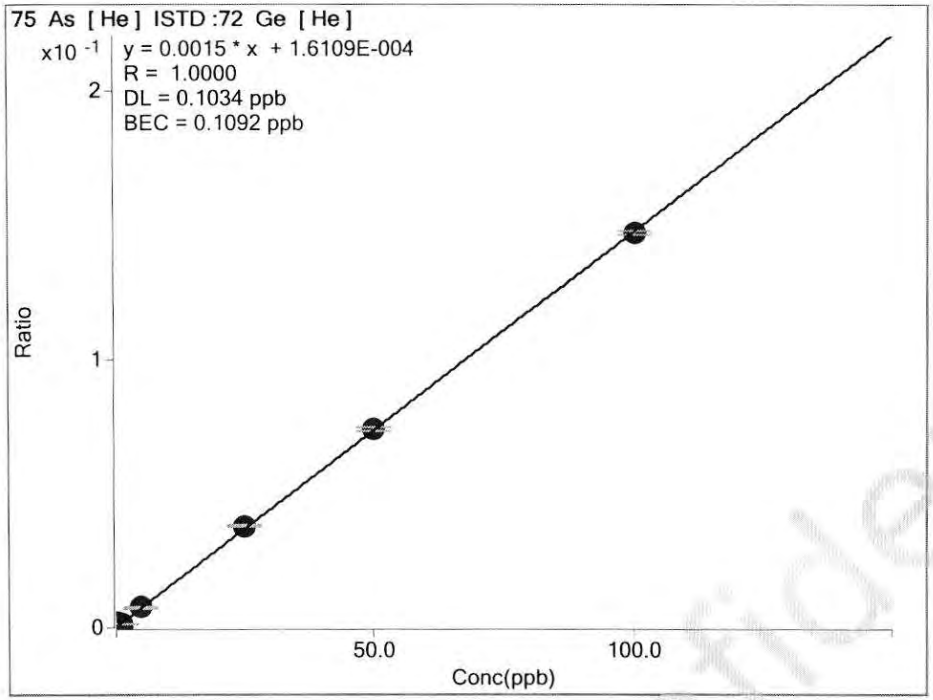
Hardware Settings

Torch

Torch H	0.4 mm	Torch V	-0.5 mm		

EM

Discriminator	3.8 mV	Analog HV	2141 V	Pulse HV	1280 V



Sample Report

Sample Name	BCJ0331-BLK1
File Name	038_Blk.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 15:56:14
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
7	Li	0.162	No Gas	0.162	6	2.4	0.5	
75	As	0.006	He	0.006	72	24.2	0.06	
208	Pb	0.011	No Gas	0.011	165	8.2	0.04	
208	Pb	0.008	He	0.008	165	25.4	0.04	
238	U	0.002	No Gas	0.002	165	15.3	0.05	
238	U	0.027	He	0.027	165	10.6	0.05	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	797929.91	3.6	94.4	844941.11
Sc	45	No Gas	1009654.56	1.3	93.4	1080750.45666667
Sc	45	He	92929.77	0.7	89.8	103428.47
Ge	72	No Gas	449157.44	0.5	94.4	475770.303333333
Ge	72	He	106117.81	3.5	89.9	117990.143333333
Ge	72	HEHe	45405.72	1.7	96.7	46970.7866666667
Rh	103	No Gas	1318518.50	1.4	95.7	1378157.04
Rh	103	He	599842.93	2.5	90.2	665380.806666667
Ho	165	No Gas	425716.21	1.1	95.2	447257.863333333
Ho	165	He	198717.67	2.4	89.8	221230.69

Sample Report

Sample Name	BCJ0331-MRL1
File Name	039LICV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 15:58:32
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
7	Li	1.411	No Gas	1.411	6	1.8	1	
75	As	1.082	He	1.082	72	3.3	1	
208	Pb	0.955	No Gas	0.955	165	4.6	1	
208	Pb	1.059	He	1.059	165	6.1	1	
238	U	1.013	No Gas	1.013	165	4.7	1	
238	U	1.054	He	1.054	165	0.7	1	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	791558.39	1.9	93.7	844941.11
Sc	45	No Gas	1042627.25	2.1	96.5	1080750.45666667
Sc	45	He	95457.83	0.9	92.3	103428.47
Ge	72	No Gas	462822.34	0.9	97.3	475770.303333333
Ge	72	He	108477.59	2.0	91.9	117990.143333333
Ge	72	HEHe	45616.21	1.7	97.1	46970.7866666667
Rh	103	No Gas	1337143.00	1.3	97.0	1378157.04
Rh	103	He	611684.18	1.9	91.9	665380.806666667
Ho	165	No Gas	439848.12	2.3	98.3	447257.863333333
Ho	165	He	202410.01	1.7	91.5	221230.69

	Sample									
		Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
1			001CALB.	2022-10-14 13:45:26	CalBlk	1	Blank		1.0000	1101
2			002CALB.	2022-10-14 13:49:06	CalBlk	1	Blank		1.0000	1101
3			003CALB.	2022-10-14 13:52:47	CalBlk	1	Blank		1.0000	1101
4			004CALS.	2022-10-14 13:56:26	CalStd	2	1 ppb cal		1.0000	1103
5			005CALS.	2022-10-14 14:00:08	CalStd	3	5 ppb cal		1.0000	1104
6			006CALS.	2022-10-14 14:03:47	CalStd	4	25 ppb cal		1.0000	1105
7			007CALS.	2022-10-14 14:07:29	CalStd	5	50 ppb cal		1.0000	1106
8			008CALS.	2022-10-14 14:11:08	CalStd	6	100 ppb cal		1.0000	1107
9			009_RIN.d	2022-10-14 14:20:40	RINSE		Rinse		1.0000	4
10			010_ICV.d	2022-10-14 14:23:57	ICV		ICV- 40ppb		1.0000	2101
11	✓		011_LDR.d	2022-10-14 14:27:29	LDR		Daily LDR- 500pp		1.0000	2102
12			012_RIN.d	2022-10-14 14:30:31	RINSE		Rinse		1.0000	4
13			013_RIN.d	2022-10-14 14:33:50	RINSE		Rinse		1.0000	4
14			014_RIN.d	2022-10-14 14:37:07	RINSE		Rinse		1.0000	4
15			015_RIN.d	2022-10-14 14:40:29	RINSE		Rinse		1.0000	5
16	✓		016_Blk.d	2022-10-14 14:43:46	Blank		BCJ0524-BLK1		1.0000	3101
17	✓		017LICV.d	2022-10-14 14:47:05	LLICV		BCJ0524-MRL1		1.0000	3102
18	✓		018_LCS.d	2022-10-14 14:50:22	LCS		BCJ08524-BS1		1.0000	3103
19			019SMPL.	2022-10-14 14:53:41	Sample		WCJ0423-01		1.0000	3104
20	✓		020SMPL.	2022-10-14 14:56:57	Sample		WCJ0475-01		1.0000	3105
21			021SMPL.	2022-10-14 15:00:13	Sample		WCJ0532-01		1.0000	3106
22			022_ARF.d	2022-10-14 15:03:29	AllRef		WCJ0533-01		1.0000	3107
23	✓		023_LFM.d	2022-10-14 15:06:48	LFM		BCJ0524-MS1		1.0000	3108
24			024LFMD.	2022-10-14 15:10:05	LFMDup		BCJ0524-MSD1		1.0000	3109
25			025SMPL.	2022-10-14 15:13:24	Sample		WCJ0552-01		1.0000	3110

	Sample									
		Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
26			026SMPL.	2022-10-14 15:16:39	Sample		WCJ0560-01		1.0000	3111
27	✓		027_Blk.d	2022-10-14 15:19:58	Blank		BCJ0524-BLK1		1.0000	3112
28	✓		028_LCS.d	2022-10-14 15:23:15	LCS		BCJ08524-BS1		1.0000	3201
29			029_RIN.d	2022-10-14 15:27:32	RINSE		Rinse		1.0000	4
30	✓		030_Blk.d	2022-10-14 15:30:49	Blank		BCJ0524-BLK2		1.0000	3202
31	✓		031_LCS.d	2022-10-14 15:34:08	LCS		BCJ08524-BS2		1.0000	3203
32			032SMPL.	2022-10-14 15:37:25	Sample		WCJ0475-01@10		1.0000	3204
33	✓		033LICV.d	2022-10-14 15:40:45	LLICV		BCJ0524-MRL1		1.0000	3205
34			034_RIN.d	2022-10-14 15:44:01	RINSE		Rinse		1.0000	4
35			035_CCV.	2022-10-14 15:47:19	CCV		CCV		1.0000	1106
36	✓		036_CCB.	2022-10-14 15:50:36	CCB		CCB		1.0000	1101
37			037_RIN.d	2022-10-14 15:53:55	RINSE		Rinse		1.0000	5
38			038_Blk.d	2022-10-14 15:56:14	Blank		BCJ0331-BLK1		1.0000	3301
39			039LICV.d	2022-10-14 15:58:32	LLICV		BCJ0331-MRL1		1.0000	3302
40			040_LCS.d	2022-10-14 16:00:53	LCS		BCJ0331-BS1		1.0000	3303
41			041SMPL.	2022-10-14 16:03:11	Sample		WCJ0253-01		1.0000	3304
42			042SMPL.	2022-10-14 16:05:30	Sample		WCJ0253-02		1.0000	3305
43	✓		043SMPL.	2022-10-14 16:07:51	Sample		WCJ0253-03		1.0000	3306
44			044SMPL.	2022-10-14 16:10:10	Sample		WCJ0253-04		1.0000	3307
45			045SMPL.	2022-10-14 16:12:28	Sample		WCJ0253-05		1.0000	3308
46			046SMPL.	2022-10-14 16:14:48	Sample		WCJ0253-06		1.0000	3309
47			047SMPL.	2022-10-14 16:17:06	Sample		WCJ0253-07		1.0000	3310
48			048SMPL.	2022-10-14 16:19:25	Sample		WCJ0253-08		1.0000	3311
49			049SMPL.	2022-10-14 16:21:45	Sample		WCJ0253-09		1.0000	3312
50			050_RIN.d	2022-10-14 16:24:03	RINSE		Rinse		1.0000	4

Sample

		Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
51			051_CCV.	2022-10-14 16:27:22	CCV		CCV		1.0000	1106
52			052_CCB.	2022-10-14 16:30:38	CCB		CCB		1.0000	1101
53			053_RIN.d	2022-10-14 16:33:57	RINSE		Rinse		1.0000	5
54			054SMPL.	2022-10-14 16:37:15	Sample		WCJ0253-10		1.0000	3401
55			055SMPL.	2022-10-14 16:39:36	Sample		WCJ0253-11		1.0000	3402
56			056SMPL.	2022-10-14 16:41:55	Sample		WCJ0253-12		1.0000	3403
57			057SMPL.	2022-10-14 16:44:14	Sample		WCJ0253-13		1.0000	3404
58			058_ARF.d	2022-10-14 16:46:34	AllRef		WCJ0253-14		1.0000	3405
59			059_LFM.d	2022-10-14 16:48:53	LFM		BCJ0331-MS1		1.0000	3406
60			060LFMD.	2022-10-14 16:51:12	LFMDup		BCJ0331-MSD1		1.0000	3407
61			061SMPL.	2022-10-14 16:53:32	Sample		WCJ0253-15		1.0000	3408
62			062_LFM.d	2022-10-14 16:55:51	LFM		BCJ0331-MS1		1.0000	3409
63			063LFMD.	2022-10-14 16:58:09	LFMDup		BCJ0331-MSD1		1.0000	3410
64			064SMPL.	2022-10-14 17:00:30	Sample		WCJ0253-16		1.0000	3411
65			065SMPL.	2022-10-14 17:02:48	Sample		WCJ0253-17		1.0000	3412

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	57322.40	0.7	0.352	ppb	40.4	0.3000	3	0.4
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	He				ppb			0	
20	Zn	66	72	He				ppb			0	
21	As	75	72	He	73.67	12.2	0.302	ppb	15.6	1.0000	3	0.3
22	Se	78	72	He				ppb			0	
23	Se	82	72	He				ppb			0	
24	Sr	88	72	No Gas				ppb			0	
25	Sr	88	72	He				ppb			0	
26	Mo	95	103	No Gas				ppb			0	
27	Mo	95	103	He				ppb			0	
28	Mo	98	103	No Gas				ppb			0	
29	Mo	98	103	He				ppb			0	
30	Ag	107	103	No Gas				ppb			0	
31	Ag	107	103	He				ppb			0	
32	Ag	109	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	109	103	He				ppb			0	
34	Cd	111	103	No Gas				ppb			0	
35	Cd	111	103	He				ppb			0	
36	Cd	114	103	No Gas				ppb			0	
37	Cd	114	103	He				ppb			0	
38	Sn	118	103	No Gas				ppb			0	
39	Sn	118	103	He				ppb			0	
40	Sb	123	165	No Gas				ppb			0	
41	Sb	123	165	He				ppb			0	
42	Ba	137	165	No Gas				ppb			0	
43	Ba	137	165	He				ppb			0	
44	Hg	201	165	No Gas				ppb			0	
45	Hg	201	165	He				ppb			0	
46	Hg	202	165	No Gas				ppb			0	
47	Hg	202	165	He				ppb			0	
48	Tl	205	165	No Gas				ppb			0	
49	Tl	205	165	He				ppb			0	
50	Pb	208	165	No Gas	266.67	3.3	0.012	ppb	9.8	0.3000	3	0.0
51	Pb	208	165	He	254.44	3.3	0.028	ppb	18.4	0.3000	3	0.0
52	U	238	165	No Gas	590.01	11.1	0.018	ppb	53.8	0.3000	3	0.0
53	U	238	165	He	686.68	8.6	<0.000	ppb	N/A	0.3000	3	0.0
54	Li	6		No Gas	1031176.	1.5		cps		0.5000	3	122.0
55	Sc	45		No Gas	1371738.	4.0		cps		0.5000	3	126.9
56	Sc	45		He	110090.6	1.2		cps		0.3000	3	106.4
57	Ge	72		No Gas	570883.2	1.0		cps		0.5000	3	120.0

Analyte												
Name		Mass	ISTD	Tune Mode	CPS	CPS RSD	Conc.	Units	Conc. RSD	Integ Time	Replicate	QC Measured Val...
58	Ge	72		He	121306.9	1.1		cps		0.3000	3	102.8
59	Ge	72		HEHe	52733.87	0.2		cps		0.3000	3	112.3
60	Rh	103		No Gas	1564386.	3.1		cps		0.5000	3	113.5
61	Rh	103		He	664324.8	1.3		cps		0.3000	3	99.8
62	Ho	165		No Gas	488213.8	0.6		cps		0.5000	3	109.2
63	Ho	165		He	214569.5	2.4		cps		0.3000	3	97.0

	Sample									
		Rjct	Data File	Acq. Date-Time	Type	Level	Sample Name	Comment	Total Dil.	Vial Number
66			066_Blk.d	2022-10-14 17:05:07	Blank		BCJ0331-BLK1		1.0000	3501
67			067_LCS.d	2022-10-14 17:07:28	LCS		BCJ0331-BS1		1.0000	3502
68			068_RIN.d	2022-10-14 17:09:47	RINSE		Rinse		1.0000	4
69	✓		069_CCV.	2022-10-14 17:13:30	CCV		CCV		1.0000	1106
70	✓		070_CCB.	2022-10-14 17:16:46	CCB		CCB		1.0000	1101

Sample Report

Sample Name	BCJ0331-BS1
File Name	040_LCS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:00:53
Sample Type	LCS
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
7	Li	51.837	No Gas	51.837	6	3.5	50	
75	As	53.160	He	53.16	72	3.4	50	
208	Pb	49.761	No Gas	49.761	165	5.4	50	
208	Pb	52.126	He	52.126	165	2.2	50	
238	U	51.594	No Gas	51.594	165	5.2	50	
238	U	54.922	He	54.922	165	2.2	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	792603.97	0.5	93.8	844941.11
Sc	45	No Gas	1023607.62	2.1	94.7	1080750.45666667
Sc	45	He	93835.66	2.4	90.7	103428.47
Ge	72	No Gas	461687.05	0.4	97.0	475770.303333333
Ge	72	He	107016.58	3.3	90.7	117990.143333333
Ge	72	HEHe	45036.59	0.2	95.9	46970.7866666667
Rh	103	No Gas	1306902.50	3.3	94.8	1378157.04
Rh	103	He	603171.85	2.6	90.7	665380.806666667
Ho	165	No Gas	436503.44	2.2	97.6	447257.863333333
Ho	165	He	200637.58	4.0	90.7	221230.69

Sample Report

Sample Name	WCJ0253-01
File Name	041SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:03:11
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
7	Li	0.972	No Gas	0.972	6	2.3	100	
75	As	1.006	He	1.006	72	4.5	1000	
208	Pb	0.022	No Gas	0.022	165	6.5	1000	
208	Pb	0.032	He	0.032	165	12.8	1000	
238	U	0.053	No Gas	0.053	165	8.7	1000	
238	U	0.050	He	0.05	165	5.7	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	762765.67	3.1	90.3	844941.11
Sc	45	No Gas	994951.10	1.0	92.1	1080750.45666667
Sc	45	He	89389.45	3.2	86.4	103428.47
Ge	72	No Gas	430237.88	1.6	90.4	475770.303333333
Ge	72	He	102195.86	2.5	86.6	117990.143333333
Ge	72	HEHe	44300.86	0.6	94.3	46970.7866666667
Rh	103	No Gas	1205543.88	1.7	87.5	1378157.04
Rh	103	He	557612.34	2.8	83.8	665380.806666667
Ho	165	No Gas	422862.15	1.7	94.5	447257.863333333
Ho	165	He	193476.46	2.7	87.5	221230.69

Sample Report

Sample Name	WCJ0253-02
File Name	042SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:05:30
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
7	Li	1.045	No Gas	1.045	6	0.8	100	
75	As	0.740	He	0.74	72	4.8	1000	
208	Pb	0.020	No Gas	0.02	165	7.3	1000	
208	Pb	0.014	He	0.014	165	16.9	1000	
238	U	0.035	No Gas	0.035	165	10.5	1000	
238	U	0.060	He	0.06	165	1.1	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	793754.72	0.5	93.9	844941.11
Sc	45	No Gas	1009369.56	2.2	93.4	1080750.45666667
Sc	45	He	94464.19	17.1	91.3	103428.47
Ge	72	No Gas	439104.85	0.9	92.3	475770.303333333
Ge	72	He	103843.03	13.5	88.0	117990.143333333
Ge	72	HEHe	42996.79	1.0	91.5	46970.7866666667
Rh	103	No Gas	1220520.25	1.1	88.6	1378157.04
Rh	103	He	567959.51	16.7	85.4	665380.806666667
Ho	165	No Gas	421423.39	2.0	94.2	447257.863333333
Ho	165	He	197186.66	16.4	89.1	221230.69

Sample Report

Sample Name	WCJ0253-03
File Name	043SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:07:51
Sample Type	Sample
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
7	Li	103.250	No Gas	103.25	6	2.2	100	>LDR
75	As	9.330	He	9.33	72	4.6	1000	
208	Pb	0.515	No Gas	0.515	165	27.2	1000	
208	Pb	0.589	He	0.589	165	19.3	1000	
238	U	1.365	No Gas	1.365	165	2.7	1000	
238	U	1.545	He	1.545	165	1.6	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	610831.33	1.0	72.3	844941.11
Sc	45	No Gas	918347.50	0.5	85.0	1080750.45666667
Sc	45	He	86618.74	1.6	83.7	103428.47
Ge	72	No Gas	381841.15	1.6	80.3	475770.303333333
Ge	72	He	86613.45	1.6	73.4	117990.143333333
Ge	72	HEHe	38588.22	1.4	82.2	46970.7866666667
Rh	103	No Gas	995685.40	1.9	72.2	1378157.04
Rh	103	He	437742.90	0.7	65.8	665380.806666667
Ho	165	No Gas	365369.88	0.5	81.7	447257.863333333
Ho	165	He	160828.34	1.0	72.7	221230.69

Sample Report

Sample Name	WCJ0253-04
File Name	044SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:10:10
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
7	Li	1.323	No Gas	1.323	6	0.3	100	
75	As	1.013	He	1.013	72	1.6	1000	
208	Pb	0.052	No Gas	0.052	165	18.8	1000	
208	Pb	0.041	He	0.041	165	9.4	1000	
238	U	0.044	No Gas	0.044	165	12.9	1000	
238	U	0.051	He	0.051	165	4.6	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	876757.33	1.7	103.8	844941.11
Sc	45	No Gas	1096243.46	2.5	101.4	1080750.45666667
Sc	45	He	101390.20	2.2	98.0	103428.47
Ge	72	No Gas	471762.63	0.5	99.2	475770.303333333
Ge	72	He	111381.71	2.1	94.4	117990.143333333
Ge	72	HEHe	46428.96	2.4	98.8	46970.7866666667
Rh	103	No Gas	1283748.58	1.3	93.1	1378157.04
Rh	103	He	581125.74	1.8	87.3	665380.806666667
Ho	165	No Gas	418724.14	1.8	93.6	447257.863333333
Ho	165	He	195589.88	2.2	88.4	221230.69

Sample Report

Sample Name	WCJ0253-05
File Name	045SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:12:28
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
7	Li	1.164	No Gas	1.164	6	2.0	100	
75	As	1.529	He	1.529	72	4.9	1000	
208	Pb	0.013	No Gas	0.013	165	11.8	1000	
208	Pb	0.021	He	0.021	165	4.9	1000	
238	U	0.040	No Gas	0.04	165	3.3	1000	
238	U	0.048	He	0.048	165	8.5	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	838595.81	1.1	99.2	844941.11
Sc	45	No Gas	1057861.29	2.3	97.9	1080750.45666667
Sc	45	He	99656.12	2.8	96.4	103428.47
Ge	72	No Gas	448209.60	1.3	94.2	475770.303333333
Ge	72	He	108573.13	3.1	92.0	117990.143333333
Ge	72	HEHe	45308.50	2.0	96.5	46970.7866666667
Rh	103	No Gas	1226278.21	1.3	89.0	1378157.04
Rh	103	He	566633.12	2.7	85.2	665380.806666667
Ho	165	No Gas	405680.25	1.9	90.7	447257.863333333
Ho	165	He	191622.05	3.0	86.6	221230.69

Sample Report

Sample Name	WCJ0253-06
File Name	046SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:14:48
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
7	Li	1.069	No Gas	1.069	6	1.3	100	
75	As	1.382	He	1.382	72	7.3	1000	
208	Pb	0.015	No Gas	0.015	165	15.4	1000	
208	Pb	0.025	He	0.025	165	24.2	1000	
238	U	0.047	No Gas	0.047	165	3.8	1000	
238	U	0.062	He	0.062	165	7.4	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	849657.88	1.2	100.6	844941.11
Sc	45	No Gas	1025977.38	2.4	94.9	1080750.45666667
Sc	45	He	99131.05	2.6	95.8	103428.47
Ge	72	No Gas	447235.11	0.1	94.0	475770.303333333
Ge	72	He	109017.88	3.0	92.4	117990.143333333
Ge	72	HEHe	45708.72	1.5	97.3	46970.7866666667
Rh	103	No Gas	1234133.84	0.6	89.5	1378157.04
Rh	103	He	566147.46	2.4	85.1	665380.806666667
Ho	165	No Gas	408741.69	2.0	91.4	447257.863333333
Ho	165	He	191614.98	2.5	86.6	221230.69

Sample Report

Sample Name	WCJ0253-07
File Name	047SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:17:06
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
7	Li	3.024	No Gas	3.024	6	1.8	100	
75	As	1.641	He	1.641	72	5.0	1000	
208	Pb	0.015	No Gas	0.015	165	21.0	1000	
208	Pb	0.031	He	0.031	165	8.5	1000	
238	U	0.166	No Gas	0.166	165	2.8	1000	
238	U	0.190	He	0.19	165	13.5	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	781314.55	1.2	92.5	844941.11
Sc	45	No Gas	1006199.69	1.8	93.1	1080750.45666667
Sc	45	He	100886.10	18.6	97.5	103428.47
Ge	72	No Gas	430215.49	1.0	90.4	475770.303333333
Ge	72	He	105776.44	16.1	89.6	117990.143333333
Ge	72	HEHe	42804.07	2.7	91.1	46970.7866666667
Rh	103	No Gas	1145394.96	4.1	83.1	1378157.04
Rh	103	He	556669.60	19.9	83.7	665380.806666667
Ho	165	No Gas	393245.59	2.2	87.9	447257.863333333
Ho	165	He	192904.03	19.7	87.2	221230.69

Sample Report

Sample Name	WCJ0253-08
File Name	048SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:19:25
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
7	Li	1.483	No Gas	1.483	6	1.7	100	
75	As	0.451	He	0.451	72	11.3	1000	
208	Pb	0.032	No Gas	0.032	165	26.0	1000	
208	Pb	0.040	He	0.04	165	8.1	1000	
238	U	0.037	No Gas	0.037	165	7.4	1000	
238	U	0.056	He	0.056	165	19.6	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	802111.52	0.6	94.9	844941.11
Sc	45	No Gas	1001649.37	1.5	92.7	1080750.45666667
Sc	45	He	96651.45	1.6	93.4	103428.47
Ge	72	No Gas	443516.45	1.0	93.2	475770.303333333
Ge	72	He	106826.09	0.8	90.5	117990.143333333
Ge	72	HEHe	44281.94	2.7	94.3	46970.7866666667
Rh	103	No Gas	1223509.12	4.3	88.8	1378157.04
Rh	103	He	553727.34	2.1	83.2	665380.806666667
Ho	165	No Gas	398735.33	1.7	89.2	447257.863333333
Ho	165	He	187002.51	2.1	84.5	221230.69

Sample Report

Sample Name	WCJ0253-09
File Name	049SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:21:45
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
7	Li	1.459	No Gas	1.459	6	0.5	100	
75	As	3.956	He	3.956	72	4.3	1000	
208	Pb	0.011	No Gas	0.011	165	13.5	1000	
208	Pb	0.016	He	0.016	165	8.0	1000	
238	U	0.292	No Gas	0.292	165	5.9	1000	
238	U	0.324	He	0.324	165	3.0	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	789798.52	2.5	93.5	844941.11
Sc	45	No Gas	984961.56	2.1	91.1	1080750.45666667
Sc	45	He	92880.94	2.2	89.8	103428.47
Ge	72	No Gas	426330.15	0.1	89.6	475770.303333333
Ge	72	He	101675.57	1.5	86.2	117990.143333333
Ge	72	HEHe	43155.19	2.3	91.9	46970.7866666667
Rh	103	No Gas	1162715.88	0.4	84.4	1378157.04
Rh	103	He	541801.64	2.2	81.4	665380.806666667
Ho	165	No Gas	385766.39	1.3	86.3	447257.863333333
Ho	165	He	184873.90	1.7	83.6	221230.69

Sample Report

Sample Name	Rinse
File Name	050_RIN.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:24:03
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

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	835448.80	2.6	98.9	844941.11
Sc	45	No Gas	975885.40	1.6	90.3	1080750.45666667
Sc	45	He	101234.74	2.5	97.9	103428.47
Ge	72	No Gas	441835.55	0.2	92.9	475770.303333333
Ge	72	He	112892.90	2.6	95.7	117990.143333333
Ge	72	HEHe	43869.52	0.6	93.4	46970.7866666667
Rh	103	No Gas	1246078.29	1.9	90.4	1378157.04
Rh	103	He	603900.06	3.4	90.8	665380.806666667
Ho	165	No Gas	401638.83	2.2	89.8	447257.863333333
Ho	165	He	196410.17	2.0	88.8	221230.69

Sample Report

Sample Name	CCV
File Name	051_CCV.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:27:22
Sample Type	CCV
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
7	Li	51.485	No Gas	51.485	6	1.7	50	
9	Be	50.405	No Gas	50.405	6	2.6	50	
11	B	54.703	No Gas	54.703	45	5.5	50	
27	Al	101.071	No Gas	101.071	45	2.2	100	
27	Al	104.988	He	104.988	45	3.3	100	
47	Ti	49.390	He	49.39	45	2.7	50	
51	V	49.395	He	49.395	45	2.0	50	
52	Cr	48.455	He	48.455	45	2.1	50	
53	Cr	49.437	He	49.437	45	6.2	50	
55	Mn	48.095	No Gas	48.095	72	2.7	50	
55	Mn	49.517	He	49.517	72	2.7	50	
56	Fe	100.065	He	100.065	72	2.3	100	
56	Fe	99.170	HEHe	99.17	72	1.0	100	
57	Fe	101.541	No Gas	101.541	72	2.6	100	
57	Fe	100.851	He	100.851	72	3.2	100	
59	Co	48.655	He	48.655	72	3.0	50	
60	Ni	48.740	He	48.74	72	1.8	50	
62	Ni	48.489	He	48.489	72	3.2	50	
65	Cu	48.558	He	48.558	72	1.9	50	
66	Zn	47.674	He	47.674	72	2.4	50	
75	As	49.509	He	49.509	72	0.8	50	
78	Se	52.064	He	52.064	72	5.1	50	
88	Sr	49.062	No Gas	49.062	72	3.0	50	
88	Sr	50.225	He	50.225	72	2.2	50	
95	Mo	49.435	No Gas	49.435	103	3.7	50	
95	Mo	50.614	He	50.614	103	1.8	50	
98	Mo	48.970	No Gas	48.97	103	2.2	50	
98	Mo	50.093	He	50.093	103	1.6	50	
107	Ag	48.978	No Gas	48.978	103	2.7	50	
107	Ag	48.626	He	48.626	103	1.6	50	
109	Ag	49.011	No Gas	49.011	103	2.8	50	
109	Ag	49.516	He	49.516	103	2.6	50	
111	Cd	48.246	No Gas	48.246	103	2.8	50	

Sample Report

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
111	Cd	49.309	He	49.309	103	1.9	50	
114	Cd	47.943	No Gas	47.943	103	3.4	50	
114	Cd	50.331	He	50.331	103	2.4	50	
118	Sn	49.110	No Gas	49.11	103	4.1	50	
118	Sn	51.719	He	51.719	103	0.9	50	
123	Sb	47.880	No Gas	47.88	165	3.8	50	
123	Sb	50.944	He	50.944	165	1.3	50	
137	Ba	49.957	No Gas	49.957	165	2.6	50	
137	Ba	53.474	He	53.474	165	3.2	50	
201	Hg	2.475	No Gas	2.475	165	2.3	2.5	
202	Hg	2.471	No Gas	2.471	165	2.7	2.5	
202	Hg	2.468	He	2.468	165	4.5	2.5	
205	Tl	48.920	No Gas	48.92	165	3.6	50	
205	Tl	49.817	He	49.817	165	1.5	50	
208	Pb	49.169	No Gas	49.169	165	3.8	50	
208	Pb	50.324	He	50.324	165	0.8	50	
238	U	49.724	No Gas	49.724	165	4.7	50	
238	U	50.444	He	50.444	165	1.6	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	812532.57	2.3	96.2	844941.11
Sc	45	No Gas	971630.62	1.5	89.9	1080750.45666667
Sc	45	He	100099.08	2.3	96.8	103428.47
Ge	72	No Gas	431998.07	0.8	90.8	475770.303333333
Ge	72	He	111737.70	1.1	94.7	117990.143333333
Ge	72	HEHe	42469.64	0.3	90.4	46970.7866666667
Rh	103	No Gas	1236968.96	1.0	89.8	1378157.04
Rh	103	He	601433.88	1.5	90.4	665380.806666667
Ho	165	No Gas	394328.66	2.0	88.2	447257.863333333
Ho	165	He	194451.20	3.4	87.9	221230.69

Sample Report

Sample Name	CCB
File Name	052_CCB.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:30:38
Sample Type	CCB
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	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	0.468	No Gas	0.468	6	0.6	0.5	
9	Be	0.025	No Gas	0.025	6	45.5	0.05	
11	B	10.873	No Gas	10.873	45	4.0	1.69	>DL*2.2
27	Al	0.080	No Gas	0.08	45	15.9	1.57	
27	Al	<0.000	He	-0.248	45	18.9	1.57	
47	Ti	0.028	He	0.028	45	173.2	0.23	
51	V	0.084	He	0.084	45	11.5	0.28	
52	Cr	<0.000	He	-0.005	45	33.7	0.04	
53	Cr	0.441	He	0.441	45	12.6	0.04	>DL*2.2
55	Mn	0.018	No Gas	0.018	72	6.0	0.05	
55	Mn	<0.000	He	-0.024	72	15.2	0.05	
56	Fe	<0.000	He	-0.101	72	4.0	1.59	
56	Fe	0.249	HEHe	0.249	72	10.7	1.59	
57	Fe	2.837	No Gas	2.837	72	1.3	1.59	
57	Fe	<0.000	He	-0.639	72	28.6	1.59	
59	Co	0.006	He	0.006	72	72.1	0.02	
60	Ni	0.044	He	0.044	72	48.2	0.08	
62	Ni	0.126	He	0.126	72	68.7	0.08	
65	Cu	0.004	He	0.004	72	42.3	0.03	
66	Zn	<0.000	He	-0.216	72	7.2	0.3	
75	As	0.010	He	0.01	72	49.4	0.06	
78	Se	0.454	He	0.454	72	2.7	0.17	>DL*2.2
88	Sr	0.073	No Gas	0.073	72	8.6	0.02	>DL*2.2
88	Sr	0.065	He	0.065	72	6.8	0.02	>DL*2.2
95	Mo	0.123	No Gas	0.123	103	15.9	0.05	>DL*2.2
95	Mo	0.303	He	0.303	103	21.7	0.05	>DL*2.2
98	Mo	0.149	No Gas	0.149	103	19.0	0.05	>DL*2.2
98	Mo	0.288	He	0.288	103	9.3	0.05	>DL*2.2
107	Ag	0.021	No Gas	0.021	103	6.2	0.03	
107	Ag	0.058	He	0.058	103	37.2	0.03	
109	Ag	0.051	No Gas	0.051	103	37.7	0.03	
109	Ag	0.101	He	0.101	103	60.5	0.03	>DL*2.2
111	Cd	0.034	No Gas	0.034	103	226.9	0.01	>DL*2.2

Sample Report

Mass	Name	Conc.	Tune	Raw Conc.	ISTD	CPS RSD	LDR	QC Flag
111	Cd	0.002	He	0.002	103	50.0	0.01	
114	Cd	0.022	No Gas	0.022	103	103.1	0.01	>DL*2.2
114	Cd	0.015	He	0.015	103	24.1	0.01	
118	Sn	0.145	No Gas	0.145	103	10.1	0.04	>DL*2.2
118	Sn	0.221	He	0.221	103	16.1	0.04	>DL*2.2
123	Sb	0.551	No Gas	0.551	165	8.1	0.05	>DL*2.2
123	Sb	1.090	He	1.09	165	13.2	0.05	>DL*2.2
137	Ba	<0.000	No Gas	-0.019	165	16.5	0.05	
137	Ba	0.029	He	0.029	165	20.7	0.05	
201	Hg	0.004	No Gas	0.004	165	11.5	0.01	
202	Hg	0.010	No Gas	0.01	165	13.1	0.01	
202	Hg	0.017	He	0.017	165	3.2	0.01	
205	Tl	0.008	No Gas	0.008	165	26.5	0.05	
205	Tl	0.015	He	0.015	165	13.7	0.05	
208	Pb	0.013	No Gas	0.013	165	5.5	0.04	
208	Pb	0.015	He	0.015	165	10.4	0.04	
238	U	0.013	No Gas	0.013	165	6.5	0.05	
238	U	0.028	He	0.028	165	14.6	0.05	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	824037.12	4.3	97.5	844941.11
Sc	45	No Gas	967009.31	2.8	89.5	1080750.45666667
Sc	45	He	102397.34	2.4	99.0	103428.47
Ge	72	No Gas	434347.16	1.3	91.3	475770.303333333
Ge	72	He	112540.50	2.9	95.4	117990.143333333
Ge	72	HEHe	43569.70	2.1	92.8	46970.7866666667
Rh	103	No Gas	1234727.00	1.2	89.6	1378157.04
Rh	103	He	607580.57	2.4	91.3	665380.806666667
Ho	165	No Gas	397058.06	2.5	88.8	447257.863333333
Ho	165	He	197463.82	0.9	89.3	221230.69

Sample Report

Sample Name	Rinse
File Name	053_RIN.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:33:57
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

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	815667.17	3.9	96.5	844941.11
Sc	45	No Gas	958070.06	1.1	88.6	1080750.45666667
Sc	45	He	100380.99	2.4	97.1	103428.47
Ge	72	No Gas	430077.28	1.7	90.4	475770.303333333
Ge	72	He	112608.10	3.1	95.4	117990.143333333
Ge	72	HEHe	44241.78	1.8	94.2	46970.7866666667
Rh	103	No Gas	1246522.29	0.4	90.4	1378157.04
Rh	103	He	605164.99	3.5	91.0	665380.806666667
Ho	165	No Gas	391589.17	2.2	87.6	447257.863333333
Ho	165	He	196059.64	3.1	88.6	221230.69

Sample Report

Sample Name	WCJ0253-10
File Name	054SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:37:15
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
7	Li	5.555	No Gas	5.555	6	2.2	100	
75	As	2.112	He	2.112	72	4.1	1000	
208	Pb	0.065	No Gas	0.065	165	4.8	1000	
208	Pb	0.067	He	0.067	165	13.8	1000	
238	U	0.212	No Gas	0.212	165	6.7	1000	
238	U	0.274	He	0.274	165	4.7	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	746396.75	0.2	88.3	844941.11
Sc	45	No Gas	944970.44	1.7	87.4	1080750.45666667
Sc	45	He	91857.26	1.4	88.8	103428.47
Ge	72	No Gas	396482.98	1.0	83.3	475770.303333333
Ge	72	He	99743.82	1.4	84.5	117990.143333333
Ge	72	HEHe	42004.87	0.8	89.4	46970.7866666667
Rh	103	No Gas	1071249.00	2.0	77.7	1378157.04
Rh	103	He	513991.09	2.7	77.2	665380.806666667
Ho	165	No Gas	362995.26	2.8	81.2	447257.863333333
Ho	165	He	179458.81	2.9	81.1	221230.69

Sample Report

Sample Name	WCJ0253-11
File Name	055SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:39:36
Sample Type	Sample
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
7	Li	134.835	No Gas	134.835	6	2.1	100	>LDR
75	As	3.096	He	3.096	72	6.7	1000	
208	Pb	0.270	No Gas	0.27	165	21.2	1000	
208	Pb	0.223	He	0.223	165	15.4	1000	
238	U	3.276	No Gas	3.276	165	3.5	1000	
238	U	3.643	He	3.643	165	2.3	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	601392.86	1.9	71.2	844941.11
Sc	45	No Gas	909864.04	1.1	84.2	1080750.45666667
Sc	45	He	87155.46	1.7	84.3	103428.47
Ge	72	No Gas	363615.42	1.1	76.4	475770.303333333
Ge	72	He	85098.40	2.3	72.1	117990.143333333
Ge	72	HEHe	39030.58	1.1	83.1	46970.7866666667
Rh	103	No Gas	964683.02	3.5	70.0	1378157.04
Rh	103	He	426880.02	1.0	64.2	665380.806666667
Ho	165	No Gas	337146.55	1.9	75.4	447257.863333333
Ho	165	He	155356.04	1.3	70.2	221230.69

Sample Report

Sample Name	WCJ0253-12
File Name	056SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:41:55
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
7	Li	0.465	No Gas	0.465	6	1.2	100	
75	As	0.295	He	0.295	72	8.1	1000	
208	Pb	0.020	No Gas	0.02	165	23.2	1000	
208	Pb	0.013	He	0.013	165	14.3	1000	
238	U	0.005	No Gas	0.005	165	3.4	1000	
238	U	<0.000	He	-0.008	165	9.1	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	914978.94	1.2	108.3	844941.11
Sc	45	No Gas	1128415.08	2.4	104.4	1080750.45666667
Sc	45	He	108923.08	1.8	105.3	103428.47
Ge	72	No Gas	497618.27	1.7	104.6	475770.303333333
Ge	72	He	117879.47	0.7	99.9	117990.143333333
Ge	72	HEHe	48635.42	0.6	103.5	46970.7866666667
Rh	103	No Gas	1378887.71	2.8	100.1	1378157.04
Rh	103	He	625328.88	2.2	94.0	665380.806666667
Ho	165	No Gas	427836.47	2.8	95.7	447257.863333333
Ho	165	He	203194.47	1.8	91.8	221230.69

Sample Report

Sample Name	WCJ0253-13
File Name	057SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:44:14
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
7	Li	4.846	No Gas	4.846	6	1.6	100	
75	As	1.786	He	1.786	72	2.8	1000	
208	Pb	0.001	No Gas	0.001	165	20.9	1000	
208	Pb	0.005	He	0.005	165	25.6	1000	
238	U	0.185	No Gas	0.185	165	1.4	1000	
238	U	0.222	He	0.222	165	1.1	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	836331.98	0.4	99.0	844941.11
Sc	45	No Gas	1113355.88	1.8	103.0	1080750.45666667
Sc	45	He	101698.22	1.2	98.3	103428.47
Ge	72	No Gas	456012.62	0.5	95.8	475770.303333333
Ge	72	He	109142.84	3.0	92.5	117990.143333333
Ge	72	HEHe	44808.04	1.1	95.4	46970.7866666667
Rh	103	No Gas	1246371.08	1.9	90.4	1378157.04
Rh	103	He	563115.67	2.2	84.6	665380.806666667
Ho	165	No Gas	417506.78	0.9	93.3	447257.863333333
Ho	165	He	193477.03	2.7	87.5	221230.69

Sample Report

Sample Name	WCJ0253-14
File Name	058_ARF.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:46:34
Sample Type	AllRef
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
7	Li	105.422	No Gas	105.422	6	2.8	100	>LDR
75	As	5.738	He	5.738	72	6.0	1000	
208	Pb	0.041	No Gas	0.041	165	10.2	1000	
208	Pb	0.056	He	0.056	165	8.0	1000	
238	U	1.247	No Gas	1.247	165	6.6	1000	
238	U	1.551	He	1.551	165	1.4	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	711814.43	8.8	84.2	844941.11
Sc	45	No Gas	1010488.50	8.5	93.5	1080750.45666667
Sc	45	He	87197.34	4.4	84.3	103428.47
Ge	72	No Gas	392398.06	8.7	82.5	475770.303333333
Ge	72	He	85421.67	2.5	72.4	117990.143333333
Ge	72	HEHe	38905.80	1.0	82.8	46970.7866666667
Rh	103	No Gas	1056804.71	12.2	76.7	1378157.04
Rh	103	He	433597.08	4.2	65.2	665380.806666667
Ho	165	No Gas	371669.43	11.0	83.1	447257.863333333
Ho	165	He	158108.42	4.6	71.5	221230.69

Sample Report

Sample Name	BCJ0331-MS1
File Name	059_LFM.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:48:53
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
7	Li	159.451	No Gas	159.451	6	3.4	100	
75	As	58.529	He	58.529	72	2.2	100	
208	Pb	41.755	No Gas	41.755	165	2.8	100	
208	Pb	43.091	He	43.091	165	1.6	100	
238	U	47.333	No Gas	47.333	165	2.9	100	
238	U	51.141	He	51.141	165	1.7	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	696123.95	3.1	82.4	844941.11
Sc	45	No Gas	944952.54	1.9	87.4	1080750.45666667
Sc	45	He	96333.12	1.7	93.1	103428.47
Ge	72	No Gas	379632.67	2.6	79.8	475770.303333333
Ge	72	He	91908.63	2.3	77.9	117990.143333333
Ge	72	HEHe	41157.85	2.8	87.6	46970.7866666667
Rh	103	No Gas	1007246.89	2.2	73.1	1378157.04
Rh	103	He	468320.88	3.0	70.4	665380.806666667
Ho	165	No Gas	348784.98	2.3	78.0	447257.863333333
Ho	165	He	169752.57	2.4	76.7	221230.69

Sample Report

Sample Name	BCJ0331-MSD1
File Name	060LFMD.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:51:12
Sample Type	LFMDup
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
7	Li	150.610	No Gas	150.61	6	2.2	20	
75	As	58.061	He	58.061	72	1.1	20	
208	Pb	39.872	No Gas	39.872	165	2.5	20	
208	Pb	43.780	He	43.78	165	2.6	20	
238	U	45.068	No Gas	45.068	165	4.0	20	
238	U	50.982	He	50.982	165	2.3	20	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	801433.67	3.6	94.9	844941.11
Sc	45	No Gas	1091364.96	4.7	101.0	1080750.45666667
Sc	45	He	98185.59	1.4	94.9	103428.47
Ge	72	No Gas	414277.38	0.2	87.1	475770.303333333
Ge	72	He	93488.84	1.1	79.2	117990.143333333
Ge	72	HEHe	42630.08	0.7	90.8	46970.7866666667
Rh	103	No Gas	1080660.16	1.5	78.4	1378157.04
Rh	103	He	474775.86	1.9	71.4	665380.806666667
Ho	165	No Gas	379936.67	1.0	84.9	447257.863333333
Ho	165	He	171540.93	3.1	77.5	221230.69

Sample Report

Sample Name	WCJ0253-15
File Name	061SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:53:32
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
7	Li	86.293	No Gas	86.293	6	1.8	100	
75	As	0.823	He	0.823	72	1.9	1000	
208	Pb	0.019	No Gas	0.019	165	9.7	1000	
208	Pb	0.019	He	0.019	165	11.3	1000	
238	U	0.229	No Gas	0.229	165	6.2	1000	
238	U	0.279	He	0.279	165	9.3	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	760703.79	2.1	90.0	844941.11
Sc	45	No Gas	963935.67	3.0	89.2	1080750.45666667
Sc	45	He	96562.22	2.7	93.4	103428.47
Ge	72	No Gas	424116.44	1.9	89.1	475770.303333333
Ge	72	He	95548.76	2.4	81.0	117990.143333333
Ge	72	HEHe	45921.77	1.0	97.8	46970.7866666667
Rh	103	No Gas	1099882.33	3.3	79.8	1378157.04
Rh	103	He	464411.80	2.7	69.8	665380.806666667
Ho	165	No Gas	378126.48	1.6	84.5	447257.863333333
Ho	165	He	168297.93	2.0	76.1	221230.69

Sample Report

Sample Name	BCJ0331-MS1
File Name	062_LFM.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:55:51
Sample Type	LFM
Total Dilution	1.0000
Comment	---
ISTD Ref FileName	003CALB.d
Sample QC Pass/Fial	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	136.194	No Gas	136.194	6	4.0	100	> +/- 25%
75	As	53.424	He	53.424	72	1.9	100	
208	Pb	40.661	No Gas	40.661	165	3.9	100	
208	Pb	44.805	He	44.805	165	2.9	100	
238	U	44.708	No Gas	44.708	165	3.9	100	
238	U	50.079	He	50.079	165	1.0	100	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	764872.01	1.9	90.5	844941.11
Sc	45	No Gas	1003578.56	3.3	92.9	1080750.45666667
Sc	45	He	102311.35	2.3	98.9	103428.47
Ge	72	No Gas	428233.07	0.9	90.0	475770.303333333
Ge	72	He	99823.96	1.6	84.6	117990.143333333
Ge	72	HEHe	45496.94	1.0	96.9	46970.7866666667
Rh	103	No Gas	1101090.08	1.1	79.9	1378157.04
Rh	103	He	486000.40	1.4	73.0	665380.806666667
Ho	165	No Gas	387725.33	0.8	86.7	447257.863333333
Ho	165	He	178467.02	2.3	80.7	221230.69

Sample Report

Sample Name	BCJ0331-MSD1
File Name	063LFMD.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 16:58:09
Sample Type	LFMDup
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
7	Li	130.376	No Gas	130.376	6	1.5	20	
75	As	52.612	He	52.612	72	2.0	20	
208	Pb	40.752	No Gas	40.752	165	2.3	20	
208	Pb	45.181	He	45.181	165	0.9	20	
238	U	44.958	No Gas	44.958	165	4.3	20	
238	U	50.901	He	50.901	165	1.6	20	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	764270.77	0.9	90.5	844941.11
Sc	45	No Gas	962251.42	1.8	89.0	1080750.45666667
Sc	45	He	99497.73	7.1	96.2	103428.47
Ge	72	No Gas	418527.75	0.3	88.0	475770.303333333
Ge	72	He	96857.18	7.1	82.1	117990.143333333
Ge	72	HEHe	49447.50	7.7	105.3	46970.7866666667
Rh	103	No Gas	1078067.08	1.3	78.2	1378157.04
Rh	103	He	478672.29	7.6	71.9	665380.806666667
Ho	165	No Gas	394696.65	0.5	88.2	447257.863333333
Ho	165	He	174916.42	7.9	79.1	221230.69

Sample Report

Sample Name	WCJ0253-16
File Name	064SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 17:00:30
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
7	Li	77.798	No Gas	77.798	6	1.8	100	
75	As	0.933	He	0.933	72	14.7	1000	
208	Pb	0.039	No Gas	0.039	165	21.5	1000	
208	Pb	0.058	He	0.058	165	5.4	1000	
238	U	0.247	No Gas	0.247	165	2.7	1000	
238	U	0.277	He	0.277	165	10.0	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	757345.17	0.6	89.6	844941.11
Sc	45	No Gas	1083308.42	2.3	100.2	1080750.45666667
Sc	45	He	102275.70	3.3	98.9	103428.47
Ge	72	No Gas	431567.66	0.5	90.7	475770.303333333
Ge	72	He	98891.93	3.1	83.8	117990.143333333
Ge	72	HEHe	47503.64	0.4	101.1	46970.7866666667
Rh	103	No Gas	1165968.17	1.6	84.6	1378157.04
Rh	103	He	499901.77	2.4	75.1	665380.806666667
Ho	165	No Gas	417331.69	1.3	93.3	447257.863333333
Ho	165	He	179481.29	2.3	81.1	221230.69

Sample Report

Sample Name	WCJ0253-17
File Name	065SMPL.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 17:02:48
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
7	Li	0.352	No Gas	0.352	6	0.7	100	
75	As	0.302	He	0.302	72	12.2	1000	
208	Pb	0.012	No Gas	0.012	165	3.3	1000	
208	Pb	0.028	He	0.028	165	3.3	1000	
238	U	0.018	No Gas	0.018	165	11.1	1000	
238	U	<0.000	He	-0.004	165	8.6	1000	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	1031176.94	1.5	122.0	844941.11
Sc	45	No Gas	1371738.63	4.0	126.9	1080750.45666667
Sc	45	He	110090.66	1.2	106.4	103428.47
Ge	72	No Gas	570883.27	1.0	120.0	475770.303333333
Ge	72	He	121306.97	1.1	102.8	117990.143333333
Ge	72	HEHe	52733.87	0.2	112.3	46970.7866666667
Rh	103	No Gas	1564386.58	3.1	113.5	1378157.04
Rh	103	He	664324.80	1.3	99.8	665380.806666667
Ho	165	No Gas	488213.88	0.6	109.2	447257.863333333
Ho	165	He	214569.58	2.4	97.0	221230.69

Sample Report

Sample Name	BCJ0331-BLK1
File Name	066_Blk.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 17:05:07
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
7	Li	0.016	No Gas	0.016	6	1.2	0.5	
75	As	<0.000	He	-0.032	72	41.6	0.06	
208	Pb	<0.000	No Gas	0	165	11.3	0.04	
208	Pb	<0.000	He	-0.008	165	37.1	0.04	
238	U	0.000	No Gas	0	165	14.7	0.05	
238	U	0.009	He	0.009	165	14.9	0.05	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
LI	6	No Gas	1005696.08	1.7	119.0	844941.11
Sc	45	No Gas	1247039.00	2.0	115.4	1080750.45666667
Sc	45	He	106698.19	3.4	103.2	103428.47
Ge	72	No Gas	557608.23	0.6	117.2	475770.303333333
Ge	72	He	119650.36	2.9	101.4	117990.143333333
Ge	72	HEHe	55343.80	2.3	117.8	46970.7866666667
Rh	103	No Gas	1527294.29	2.6	110.8	1378157.04
Rh	103	He	664696.69	3.2	99.9	665380.806666667
Ho	165	No Gas	494477.87	1.3	110.6	447257.863333333
Ho	165	He	212510.06	4.0	96.1	221230.69

Sample Report

Sample Name	BCJ0331-BS1
File Name	067_LCS.d
Data Path Name	D:\Agilent\ICPMH\1\DATA\Method Batches\RXN\Sequences\10142022 HIGH MATRIX.b
Acq Time	2022-10-14 17:07:28
Sample Type	LCS
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
7	Li	47.763	No Gas	47.763	6	3.4	50	
75	As	47.518	He	47.518	72	3.3	50	
208	Pb	46.678	No Gas	46.678	165	3.7	50	
208	Pb	48.939	He	48.939	165	3.1	50	
238	U	46.853	No Gas	46.853	165	4.1	50	
238	U	50.110	He	50.11	165	3.2	50	

QC ISTD Table

Name	Mass	Tune Mode	CPS	CPS RSD	ISTD Recovery %	ISTD Ref CPS
Li	6	No Gas	975318.42	1.0	115.4	844941.11
Sc	45	No Gas	1230768.25	2.8	113.9	1080750.45666667
Sc	45	He	107176.07	1.6	103.6	103428.47
Ge	72	No Gas	556055.77	0.8	116.9	475770.303333333
Ge	72	He	119861.91	2.5	101.6	117990.143333333
Ge	72	HEHe	55005.84	0.6	117.1	46970.7866666667
Rh	103	No Gas	1530999.79	1.8	111.1	1378157.04
Rh	103	He	670562.77	2.6	100.8	665380.806666667
Ho	165	No Gas	494352.02	0.3	110.5	447257.863333333
Ho	165	He	217262.03	2.8	98.2	221230.69

NON DW SV EXTRACTION LOG DATE 10/10/22 ANALYST MCK

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	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	2X
	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	
	BCJ0307-BLK1	2 ml	1.0	0.5	0.5	10	0	
	BCJ0307-BS1	2 ml	1.0	0.5	0.5	10	4	
	BCJ0307-MS1	2 ml	1.0	0.5	0.5	10	4	
	BCJ0307-MSD1	2 ml	1.0	0.5	0.5	10	4	
	WCJ0253-14	2 ml	1.0	0.5	0.5	10	0	
	MCI0947-01	2 ml	1.0	0.5	0.5	10	0	
	MCI0947-02	2 ml	1.0	0.5	0.5	10	0	
	MCI0947-05	2 ml	1.0	0.5	0.5	10	0	
	MCI0947-06	2 ml	1.0	0.5	0.5	10	0	
	MCI0947-09	2 ml	1.0	0.5	0.5	10	0	
	MCI0947-10	2 ml	1.0	0.5	0.5	10	0	
	MCI0947-11	2 ml	1.0	0.5	0.5	10	0	
	MCI0947-12	2 ml	1.0	0.5	0.5	10	0	
	MCJ0052-01	2 ml	1.0	0.5	0.5	10	0	
	WCJ0253-13	2 ml	1.0	0.5	0.5	10	0	
	WCJ0253-15	2 ml	1.0	0.5	0.5	10	0	
	WCJ0253-16	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

Mark Kater 10/12/22
BCJ0307
BCJ0309

NON DW SV EXTRACTION LOG DATE 10/10/22 ANALYST MBC

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	25/50

	Standard or Sample # (Glyphosate / AMPA)	Reaction volume	Water	FMOC (mL)	Extract/Buffer (mL)	IS (µL)	Cal Std or Spike (µl)	Final Mult
	250 ppb / 500 ppb	2 ml	0.75	0.5	0.75	10	20	2x
	125 ppb / 250 ppb	2 ml	0.75	0.5	0.75	10	10	
	50 ppb / 100 ppb	2 ml	0.75	0.5	0.75	10	4	
	25 ppb / 50 ppb	2 ml	0.75	0.5	0.75	10	2	
	12.5 ppb / 25 ppb	2 ml	0.75	0.5	0.75	10	1	
	6.25 ppb/12.5 ppb	2 ml	0.75	0.5	0.75	10	0.5	
	BCJ0309-BLK1	2 ml	0.75	0.5	0.75	10	0	
	BCJ0309-BS1	2 ml	0.75	0.5	0.75	10	4	
	BCJ0309-MS1	2 ml	0.75	0.5	0.25/0.50	10	4	45.2
	BCJ0309-MSD1	2 ml	0.75	0.5	0.25/0.50	10	4	
	MCJ0164-01	2 ml	0.75	0.5	0.25/0.50	10	0	

*Sample
Sample extracts were transferred to 5 ml test tubes (stds and samples plus reagents)
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 ACN; 2% Phosphoric Acid; Buffer – 5 % Sodium Tetraborate

Sample Extraction/Homogenizer information

	Sample #	Weight (g)	Buffer amount	MULT
	MCJ0164-01	5.21	25	5.65

x5
85.0

	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 a	Standard	10/11/2022 4:42	101122_gly	1.00	Glyphosate	6.76e+005	250.	1.37e+005	250.	100.
2	250/500 ppb gly a	Standard	10/11/2022 4:42	101122_gly	1.00	Glyphosate1	2.50e+005	250.	1.37e+005	251.	100.
3	250/500 ppb gly a	Standard	10/11/2022 4:42	101122_gly	1.00	AMPA	4.32e+005	500.	1.37e+005	503.	101.
4	250/500 ppb gly a	Standard	10/11/2022 4:42	101122_gly	1.00	AMPA1	1.64e+005	500.	1.37e+005	503.	101.
5	125/250 ppb gly a	Standard	10/11/2022 4:49	101122_gly	1.00	Glyphosate	4.28e+005	125.	1.58e+005	125.	100.
6	125/250 ppb gly a	Standard	10/11/2022 4:49	101122_gly	1.00	Glyphosate1	1.54e+005	125.	1.58e+005	124.	99.5
7	125/250 ppb gly a	Standard	10/11/2022 4:49	101122_gly	1.00	AMPA	3.08e+005	250.	1.58e+005	247.	98.7
8	125/250 ppb gly a	Standard	10/11/2022 4:49	101122_gly	1.00	AMPA1	1.10e+005	250.	1.58e+005	247.	98.8
9	50/100 ppb gly a	Standard	10/11/2022 4:56	101122_gly	1.00	Glyphosate	2.09e+005	50.0	1.91e+005	47.8	95.7
10	50/100 ppb gly a	Standard	10/11/2022 4:56	101122_gly	1.00	Glyphosate1	7.58e+004	50.0	1.91e+005	48.3	96.5
11	50/100 ppb gly a	Standard	10/11/2022 4:56	101122_gly	1.00	AMPA	1.68e+005	100.	1.91e+005	98.1	98.1
12	50/100 ppb gly a	Standard	10/11/2022 4:56	101122_gly	1.00	AMPA1	5.78e+004	100.	1.91e+005	95.7	95.7
13	25/50 ppb gly am	Standard	10/11/2022 5:02	101122_gly	1.00	Glyphosate	1.30e+005	25.0	2.05e+005	27.0	108.
14	25/50 ppb gly am	Standard	10/11/2022 5:02	101122_gly	1.00	Glyphosate1	4.69e+004	25.0	2.05e+005	27.2	109.
15	25/50 ppb gly am	Standard	10/11/2022 5:02	101122_gly	1.00	AMPA	1.03e+005	50.0	2.05e+005	53.6	107.
16	25/50 ppb gly am	Standard	10/11/2022 5:02	101122_gly	1.00	AMPA1	3.73e+004	50.0	2.05e+005	54.7	109.
17	12.5/25 ppb gly a	Standard	10/11/2022 5:09	101122_gly	1.00	Glyphosate	6.81e+004	12.5	2.25e+005	12.3	98.5
18	12.5/25 ppb gly a	Standard	10/11/2022 5:09	101122_gly	1.00	Glyphosate1	2.44e+004	12.5	2.25e+005	12.4	99.6
19	12.5/25 ppb gly a	Standard	10/11/2022 5:09	101122_gly	1.00	AMPA	5.62e+004	25.0	2.25e+005	24.8	99.0
20	12.5/25 ppb gly a	Standard	10/11/2022 5:09	101122_gly	1.00	AMPA1	2.18e+004	25.0	2.25e+005	26.7	107.
21	6.25/12.5 ppb gly/	Standard	10/11/2022 5:16	101122_gly	1.00	Glyphosate	3.68e+004	6.25	2.30e+005	6.08	97.3
22	6.25/12.5 ppb gly/	Standard	10/11/2022 5:16	101122_gly	1.00	Glyphosate1	1.26e+004	6.25	2.30e+005	5.96	95.3
23	6.25/12.5 ppb gly/	Standard	10/11/2022 5:16	101122_gly	1.00	AMPA	3.09e+004	12.5	2.30e+005	12.0	96.4
24	6.25/12.5 ppb gly/	Standard	10/11/2022 5:16	101122_gly	1.00	AMPA1	1.10e+004	12.5	2.30e+005	11.1	88.8
25	RINSE	Quality Cont	10/11/2022 5:23	101122_gly	1.00	Glyphosate	0.00e+000	0.00	2.34e+005	No Peak	N/A
26	RINSE	Quality Cont	10/11/2022 5:23	101122_gly	1.00	Glyphosate1	0.00e+000	0.00	2.34e+005	No Peak	N/A
27	RINSE	Quality Cont	10/11/2022 5:23	101122_gly	1.00	AMPA	0.00e+000	0.00	2.34e+005	No Peak	N/A
28	RINSE	Quality Cont	10/11/2022 5:23	101122_gly	1.00	AMPA1	0.00e+000	0.00	2.34e+005	No Peak	N/A
29	BCJ0307-BLK1	Quality Cont	10/11/2022 5:29	101122_gly	1.00	Glyphosate	0.00e+000	0.00	2.53e+005	No Peak	N/A
30	BCJ0307-BLK1	Quality Cont	10/11/2022 5:29	101122_gly	1.00	Glyphosate1	0.00e+000	0.00	2.53e+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 (%)
31	BCJ0307-BLK1	Quality Cont	10/11/2022 5:29	101122_gly	1.00	AMPA	0.00e+000	0.00	2.53e+005	No Peak	N/A
32	BCJ0307-BLK1	Quality Cont	10/11/2022 5:29	101122_gly	1.00	AMPA1	0.00e+000	0.00	2.53e+005	No Peak	N/A
33	BCJ0307-BS1	Quality Cont	10/11/2022 5:36	101122_gly	1.00	Glyphosate	2.58e+005	50.0	2.45e+005	45.8	91.7
34	BCJ0307-BS1	Quality Cont	10/11/2022 5:36	101122_gly	1.00	Glyphosate1	9.44e+004	50.0	2.45e+005	46.8	93.7
35	BCJ0307-BS1	Quality Cont	10/11/2022 5:36	101122_gly	1.00	AMPA	2.02e+005	100.	2.45e+005	91.6	91.6
36	BCJ0307-BS1	Quality Cont	10/11/2022 5:36	101122_gly	1.00	AMPA1	7.38e+004	100.	2.45e+005	95.3	95.3
37	BCJ0307-MS1	Quality Cont	10/11/2022 5:43	101122_gly	1.00	Glyphosate	5.37e+004	50.0	4.40e+004	53.4	107.
38	BCJ0307-MS1	Quality Cont	10/11/2022 5:43	101122_gly	1.00	Glyphosate1	1.83e+004	50.0	4.40e+004	50.6	101.
39	BCJ0307-MS1	Quality Cont	10/11/2022 5:43	101122_gly	1.00	AMPA	4.85e+004	100.	4.40e+004	126.	126.
40	BCJ0307-MS1	Quality Cont	10/11/2022 5:43	101122_gly	1.00	AMPA1	1.48e+004	100.	4.40e+004	107.	107.
41	BCJ0307-MSD1	Quality Cont	10/11/2022 5:50	101122_gly	1.00	Glyphosate	4.78e+004	50.0	4.75e+004	43.7	87.4
42	BCJ0307-MSD1	Quality Cont	10/11/2022 5:50	101122_gly	1.00	Glyphosate1	1.73e+004	50.0	4.75e+004	44.2	88.4
43	BCJ0307-MSD1	Quality Cont	10/11/2022 5:50	101122_gly	1.00	AMPA	4.30e+004	100.	4.75e+004	101.	101.
44	BCJ0307-MSD1	Quality Cont	10/11/2022 5:50	101122_gly	1.00	AMPA1	1.61e+004	100.	4.75e+004	109.	109.
45	WCJ0253-14	Unknown	10/11/2022 5:56	101122_gly	1.00	Glyphosate	2.23e+003	N/A	4.53e+004	1.31	N/A
46	WCJ0253-14	Unknown	10/11/2022 5:56	101122_gly	1.00	Glyphosate1	0.00e+000	N/A	4.53e+004	No Peak	N/A
47	WCJ0253-14	Unknown	10/11/2022 5:56	101122_gly	1.00	AMPA	0.00e+000	N/A	4.53e+004	No Peak	N/A
48	WCJ0253-14	Unknown	10/11/2022 5:56	101122_gly	1.00	AMPA1	0.00e+000	N/A	4.53e+004	No Peak	N/A
49	MCI0947-01	Unknown	10/11/2022 6:03	101122_gly	1.00	Glyphosate	0.00e+000	N/A	1.84e+005	No Peak	N/A
50	MCI0947-01	Unknown	10/11/2022 6:03	101122_gly	1.00	Glyphosate1	0.00e+000	N/A	1.84e+005	No Peak	N/A
51	MCI0947-01	Unknown	10/11/2022 6:03	101122_gly	1.00	AMPA	0.00e+000	N/A	1.84e+005	No Peak	N/A
52	MCI0947-01	Unknown	10/11/2022 6:03	101122_gly	1.00	AMPA1	0.00e+000	N/A	1.84e+005	No Peak	N/A
53	MCI0947-02	Unknown	10/11/2022 6:10	101122_gly	1.00	Glyphosate	0.00e+000	N/A	2.21e+005	No Peak	N/A
54	MCI0947-02	Unknown	10/11/2022 6:10	101122_gly	1.00	Glyphosate1	0.00e+000	N/A	2.21e+005	No Peak	N/A
55	MCI0947-02	Unknown	10/11/2022 6:10	101122_gly	1.00	AMPA	0.00e+000	N/A	2.21e+005	No Peak	N/A
56	MCI0947-02	Unknown	10/11/2022 6:10	101122_gly	1.00	AMPA1	0.00e+000	N/A	2.21e+005	No Peak	N/A
57	MCI0947-05	Unknown	10/11/2022 6:17	101122_gly	1.00	Glyphosate	0.00e+000	N/A	2.46e+005	No Peak	N/A
58	MCI0947-05	Unknown	10/11/2022 6:17	101122_gly	1.00	Glyphosate1	0.00e+000	N/A	2.46e+005	No Peak	N/A
[illegible]	MCI0947-05	Unknown	10/11/2022 6:17	101122_gly	1.00	AMPA	0.00e+000	N/A	2.46e+005	No Peak	N/A
[illegible]	MCI0947-05	Unknown	10/11/2022 6:17	101122_gly	1.00	AMPA1	0.00e+000	N/A	2.46e+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 (%)
61	MCI0947-06	Unknown	10/11/2022 6:23	101122_gly	1.00	Glyphosate	0.00e+000	N/A	2.64e+005	No Peak	N/A
62	MCI0947-06	Unknown	10/11/2022 6:23	101122_gly	1.00	Glyphosate1	0.00e+000	N/A	2.64e+005	No Peak	N/A
63	MCI0947-06	Unknown	10/11/2022 6:23	101122_gly	1.00	AMPA	0.00e+000	N/A	2.64e+005	No Peak	N/A
64	MCI0947-06	Unknown	10/11/2022 6:23	101122_gly	1.00	AMPA1	0.00e+000	N/A	2.64e+005	No Peak	N/A
65	MCI0947-09	Unknown	10/11/2022 6:30	101122_gly	1.00	Glyphosate	0.00e+000	N/A	2.81e+005	No Peak	N/A
66	MCI0947-09	Unknown	10/11/2022 6:30	101122_gly	1.00	Glyphosate1	0.00e+000	N/A	2.81e+005	No Peak	N/A
67	MCI0947-09	Unknown	10/11/2022 6:30	101122_gly	1.00	AMPA	0.00e+000	N/A	2.81e+005	No Peak	N/A
68	MCI0947-09	Unknown	10/11/2022 6:30	101122_gly	1.00	AMPA1	0.00e+000	N/A	2.81e+005	No Peak	N/A
69	MCI0947-10	Unknown	10/11/2022 6:37	101122_gly	1.00	Glyphosate	0.00e+000	N/A	2.71e+005	No Peak	N/A
70	MCI0947-10	Unknown	10/11/2022 6:37	101122_gly	1.00	Glyphosate1	0.00e+000	N/A	2.71e+005	No Peak	N/A
71	MCI0947-10	Unknown	10/11/2022 6:37	101122_gly	1.00	AMPA	0.00e+000	N/A	2.71e+005	No Peak	N/A
72	MCI0947-10	Unknown	10/11/2022 6:37	101122_gly	1.00	AMPA1	0.00e+000	N/A	2.71e+005	No Peak	N/A
73	MCI0947-11	Unknown	10/11/2022 6:44	101122_gly	1.00	Glyphosate	0.00e+000	N/A	2.93e+005	No Peak	N/A
74	MCI0947-11	Unknown	10/11/2022 6:44	101122_gly	1.00	Glyphosate1	0.00e+000	N/A	2.93e+005	No Peak	N/A
75	MCI0947-11	Unknown	10/11/2022 6:44	101122_gly	1.00	AMPA	0.00e+000	N/A	2.93e+005	No Peak	N/A
76	MCI0947-11	Unknown	10/11/2022 6:44	101122_gly	1.00	AMPA1	0.00e+000	N/A	2.93e+005	No Peak	N/A
77	MCI0947-12	Unknown	10/11/2022 6:51	101122_gly	1.00	Glyphosate	2.89e+003	N/A	2.79e+005	< 0	N/A
78	MCI0947-12	Unknown	10/11/2022 6:51	101122_gly	1.00	Glyphosate1	0.00e+000	N/A	2.79e+005	No Peak	N/A
79	MCI0947-12	Unknown	10/11/2022 6:51	101122_gly	1.00	AMPA	0.00e+000	N/A	2.79e+005	No Peak	N/A
80	MCI0947-12	Unknown	10/11/2022 6:51	101122_gly	1.00	AMPA1	0.00e+000	N/A	2.79e+005	No Peak	N/A
81	CCV 25/50 ppb	Quality Cont	10/11/2022 6:57	101122_gly	1.00	Glyphosate	1.83e+005	25.0	2.92e+005	26.6	106.
82	CCV 25/50 ppb	Quality Cont	10/11/2022 6:57	101122_gly	1.00	Glyphosate1	6.75e+004	25.0	2.92e+005	27.5	110.
83	CCV 25/50 ppb	Quality Cont	10/11/2022 6:57	101122_gly	1.00	AMPA	1.44e+005	50.0	2.92e+005	52.2	104.
84	CCV 25/50 ppb	Quality Cont	10/11/2022 6:57	101122_gly	1.00	AMPA1	4.93e+004	50.0	2.92e+005	50.3	101.
85	MCH0052-01	Unknown	10/11/2022 7:04	101122_gly	1.00	Glyphosate	0.00e+000	N/A	2.66e+005	No Peak	N/A
86	MCH0052-01	Unknown	10/11/2022 7:04	101122_gly	1.00	Glyphosate1	0.00e+000	N/A	2.66e+005	No Peak	N/A
87	MCH0052-01	Unknown	10/11/2022 7:04	101122_gly	1.00	AMPA	4.09e+003	N/A	2.66e+005	< 0	N/A
88	MCH0052-01	Unknown	10/11/2022 7:04	101122_gly	1.00	AMPA1	0.00e+000	N/A	2.66e+005	No Peak	N/A
	WCJ0253-13	Unknown	10/11/2022 7:11	101122_gly	1.00	Glyphosate	0.00e+000	N/A	1.10e+005	No Peak	N/A
	WCJ0253-13	Unknown	10/11/2022 7:11	101122_gly	1.00	Glyphosate1	0.00e+000	N/A	1.10e+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 (%)
91	WCJ0253-13	Unknown	10/11/2022 7:11	101122_gly	1.00	AMPA	0.00e+000	N/A	1.10e+005	No Peak	N/A
92	WCJ0253-13	Unknown	10/11/2022 7:11	101122_gly	1.00	AMPA1	0.00e+000	N/A	1.10e+005	No Peak	N/A
93	WCJ0253-15	Unknown	10/11/2022 7:18	101122_gly	1.00	Glyphosate	0.00e+000	N/A	4.43e+004	No Peak	N/A
94	WCJ0253-15	Unknown	10/11/2022 7:18	101122_gly	1.00	Glyphosate1	0.00e+000	N/A	4.43e+004	No Peak	N/A
95	WCJ0253-15	Unknown	10/11/2022 7:18	101122_gly	1.00	AMPA	0.00e+000	N/A	4.43e+004	No Peak	N/A
96	WCJ0253-15	Unknown	10/11/2022 7:18	101122_gly	1.00	AMPA1	0.00e+000	N/A	4.43e+004	No Peak	N/A
97	WCJ0253-16	Unknown	10/11/2022 7:24	101122_gly	1.00	Glyphosate	0.00e+000	N/A	4.76e+004	No Peak	N/A
98	WCJ0253-16	Unknown	10/11/2022 7:24	101122_gly	1.00	Glyphosate1	0.00e+000	N/A	4.76e+004	No Peak	N/A
99	WCJ0253-16	Unknown	10/11/2022 7:24	101122_gly	1.00	AMPA	0.00e+000	N/A	4.76e+004	No Peak	N/A
100	WCJ0253-16	Unknown	10/11/2022 7:24	101122_gly	1.00	AMPA1	0.00e+000	N/A	4.76e+004	No Peak	N/A
101	CCV 25/50 ppb	Quality Cont	10/11/2022 7:31	101122_gly	1.00	Glyphosate	1.38e+005	25.0	2.11e+005	27.8	111.
102	CCV 25/50 ppb	Quality Cont	10/11/2022 7:31	101122_gly	1.00	Glyphosate1	4.80e+004	25.0	2.11e+005	27.1	108.
103	CCV 25/50 ppb	Quality Cont	10/11/2022 7:31	101122_gly	1.00	AMPA	1.14e+005	50.0	2.11e+005	58.0	116.
104	CCV 25/50 ppb	Quality Cont	10/11/2022 7:31	101122_gly	1.00	AMPA1	4.24e+004	50.0	2.11e+005	61.1	122.
105	BCJ0309-BLK1	Unknown	10/11/2022 7:38	101122_gly	1.00	Glyphosate	0.00e+000	N/A	2.69e+005	No Peak	N/A
106	BCJ0309-BLK1	Unknown	10/11/2022 7:38	101122_gly	1.00	Glyphosate1	0.00e+000	N/A	2.69e+005	No Peak	N/A
107	BCJ0309-BLK1	Unknown	10/11/2022 7:38	101122_gly	1.00	AMPA	2.94e+003	N/A	2.69e+005	< 0	N/A
108	BCJ0309-BLK1	Unknown	10/11/2022 7:38	101122_gly	1.00	AMPA1	0.00e+000	N/A	2.69e+005	No Peak	N/A
109	BCJ0309-BS1	Quality Cont	10/11/2022 7:45	101122_gly	1.00	Glyphosate	2.92e+005	50.0	2.80e+005	45.4	90.7
110	BCJ0309-BS1	Quality Cont	10/11/2022 7:45	101122_gly	1.00	Glyphosate1	1.07e+005	50.0	2.80e+005	46.3	92.7
111	BCJ0309-BS1	Quality Cont	10/11/2022 7:45	101122_gly	1.00	AMPA	2.37e+005	100.	2.80e+005	94.0	94.0
112	BCJ0309-BS1	Quality Cont	10/11/2022 7:45	101122_gly	1.00	AMPA1	8.23e+004	100.	2.80e+005	92.4	92.4
113	BCJ0309-MS1	Quality Cont	10/11/2022 7:51	101122_gly	1.00	Glyphosate	2.04e+005	50.0	1.93e+005	46.0	92.0
114	BCJ0309-MS1	Quality Cont	10/11/2022 7:51	101122_gly	1.00	Glyphosate1	7.49e+004	50.0	1.93e+005	47.0	94.1
115	BCJ0309-MS1	Quality Cont	10/11/2022 7:51	101122_gly	1.00	AMPA	1.85e+005	100.	1.93e+005	108.	108.
116	BCJ0309-MS1	Quality Cont	10/11/2022 7:51	101122_gly	1.00	AMPA1	6.56e+004	100.	1.93e+005	109.	109.
117	BCJ0309-MSD1	Quality Cont	10/11/2022 7:58	101122_gly	1.00	Glyphosate	1.83e+005	50.0	1.72e+005	46.2	92.4
118	BCJ0309-MSD1	Quality Cont	10/11/2022 7:58	101122_gly	1.00	Glyphosate1	7.00e+004	50.0	1.72e+005	49.4	98.9
	BCJ0309-MSD1	Quality Cont	10/11/2022 7:58	101122_gly	1.00	AMPA	1.79e+005	100.	1.72e+005	118.	118.
	BCJ0309-MSD1	Quality Cont	10/11/2022 7:58	101122_gly	1.00	AMPA1	6.37e+004	100.	1.72e+005	120.	120.

	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 (%)
121	MCJ0164-01	Unknown	10/11/2022 8:05	101122_gly	1.00	Glyphosate	0.00e+000	N/A	1.68e+005	No Peak	N/A
122	MCJ0164-01	Unknown	10/11/2022 8:05	101122_gly	1.00	Glyphosate1	0.00e+000	N/A	1.68e+005	No Peak	N/A
123	MCJ0164-01	Unknown	10/11/2022 8:05	101122_gly	1.00	AMPA	7.00e+003	N/A	1.68e+005	2.04	N/A
124	MCJ0164-01	Unknown	10/11/2022 8:05	101122_gly	1.00	AMPA1	0.00e+000	N/A	1.68e+005	No Peak	N/A
125	CCV 25/50 ppb	Quality Cont	10/11/2022 8:12	101122_gly	1.00	Glyphosate	1.71e+005	25.0	2.64e+005	27.4	110.
126	CCV 25/50 ppb	Quality Cont	10/11/2022 8:12	101122_gly	1.00	Glyphosate1	6.14e+004	25.0	2.64e+005	27.6	111.
127	CCV 25/50 ppb	Quality Cont	10/11/2022 8:12	101122_gly	1.00	AMPA	1.42e+005	50.0	2.64e+005	57.1	114.
128	CCV 25/50 ppb	Quality Cont	10/11/2022 8:12	101122_gly	1.00	AMPA1	5.26e+004	50.0	2.64e+005	60.3	121.

Sequence Name: T:\Data1\MSD4\SEQUENCES\2022\110822.s
Comment:
Operator: MH
Data Path: T:\DATA1\MSD4\2022\NOV\09CD\
Instrument Control Pre-Seq Cmd:
Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd:
Data Analysis Post-Seq Cmd:

Method Sections To Run
(X) Full Method
( ) Reprocessing Only

Sequence Barcode Options
(X) On Mismatch, Inject Anyway
( ) On Mismatch, Don't Inject
( ) Barcode Disabled

Line			Sample Name/Misc Info	
1)	Sample	101	--------	SVOCT1 SYS
2)	Sample	102	--------	CARDSIM CD 10 PPM
3)	Sample	103	--------	CARDSIM CD 5 PPM
4)	Sample	104	--------	CARDSIM CD 2.5 PPM
5)	Sample	105	--------	CARDSIM CD 1 PPM
6)	Sample	106	--------	CARDSIM CD 0.5 PPM
7)	Sample	107	--------	CARDSIM CD 0.1 PPM
8)	Sample	108	--------	CARDSIM CD 0.05 PPM
9)	Sample	111	--------	CARDSIM ~~BCK0352~~-BS1 BCJ0361-BS1
10)	Sample	112	--------	CARDSIM ~~BCK0352~~-BSD1 BCJ0361-BSD1
11)	Sample	113	--------	CARDSIM ~~BCK0352~~-BLK1 BCJ036-BLK1
12)	Sample	114	--------	CARDSIM WCJ0253-13
13)	Sample	115	--------	CARDSIM WCJ0253-14
14)	Sample	116	--------	CARDSIM WCJ0253-15
15)	Sample	117	--------	CARDSIM WCJ0253-16

inject error (Vial empty)
11/11-22

Last Modified: Wed Nov 09 16:36:52 2022 Page: 1

Anatek Labs, Inc.

QC Checklist for EPA 8270/625.1 - SOCs

Analysis Date: 11.8.22

☒	QC Parameter	Acceptance Criteria	Frequency	Notes
✓	DFTPP Tune	See SOP/Method	Every 12 hours	
✓	Sys Check	DDT breakdown <20%	Every 12 hours	
NA	System Performance	Anthracene & phenanthrene baseline separated	Each analysis batch	
NA	System Performance	Benzo[a]anthracene & chrysene valley >75%	Each analysis batch	
NA	System Performance	Benzo(b/k)fluoranthenes - valley >50% of average of both peaks	Each analysis batch	
✓	System Performance	Peak tailing factors for benzidine & PCP <2	Each analysis batch	
✓	Initial Calibration	90% of compounds RRF RSD<20% 8270: True value within 30%		Quad fit > 0.99
✓	RF	See table on back of this checklist		Include CCRF report in packet
✓	Internal Standard	±30% of CCV and ±50% of ICAL average	All samples	
✓	Surrogate Recovery	Per control chart	All samples	
✓	ICV/QCS	±30%, 50% at MRL	Each ICAL	
✓	Blanks	No interferences	Each extraction batch	
✓	CCV - 8270	80-120% - 80% of analytes pass	Each analysis batch w/o an ICAL	Cardio Quad => 2013
✓	CCV - 625	80-120% - all reported analytes must pass	Each analysis batch w/o an ICAL	> 0.99
	MS/MSD or LFB/LFB Dup	Per control chart	Every 20 samples	

✓	Bench Sheet Present	Standards/reagents noted	
✓	Cal Prep Form Present	Standards/reagents noted	
NA	Dilutions Noted?		

Comments:

Analyst: _____ Checklist Completed Date: 11-9-22

Reviewed By: _____ *Date:* _____

Guidance Response Factors – EPA Method 8270E – Table 4			
2,3,4,6-Tetrachlorophenol	0.01	bis(2-Ethylhexyl)phthalate	0.01
2,4,5-Trichlorophenol	0.2	Butyl benzyl phthalate	0.01
2,4,6-Trichlorophenol	0.2	Carbazole	0.01
2,4-Dichlorophenol	0.2	Chrysene	0.7
2,4-Dimethylphenol	0.2	Dibenz[a,h]anthracene	0.4
2,4-Dinitrophenol	0.01	Dibenzofuran	0.8
2,4-Dinitrotoluene	0.2	Diethyl phthalate	0.01
2,6-Dinitrotoluene	0.2	Dimethyl phthalate	0.01
2-Chloronaphthalene	0.8	Di-n-butyl phthalate	0.01
2-Chlorophenol	0.8	Di-n-octyl phthalate	0.01
3,3'-Dichlorobenzidine	0.01	Fluoranthene	0.6
4,6-Dinitro-2-methylphenol	0.01	Fluorene	0.9
4-Bromophenyl-phenylether	0.1	Hexachlorobenzene	0.1
4-Chloro-3-methylphenol	0.2	Hexachlorobutadiene	0.01
4-Chloroaniline	0.01	Hexachlorocyclopentadiene	0.05
4-Chlorophenyl phenyl ether	0.4	Hexachloroethane	0.3
Acenaphthene	0.9	Indeno[1,2,3-cd]pyrene	0.5
Acenaphthylene	0.9	Isophorone	0.4
Aniline	0.7	Naphthalene	0.7
Benzo[a]anthracene	0.8	Nitrobenzene	0.2
Benzo[a]pyrene	0.7	n-Nitroso-di-n-propylamine	0.5
Benzo[b]fluoranthene	0.7	n-Nitrosodiphenylamine	0.01
Benzo[ghi]perylene	0.5	Pentachlorophenol	0.05
Benzo[k]fluoranthene	0.7	Phenanthrene	0.7
bis(2-Chloroethoxy)methane	0.3	Phenol	0.8
bis(2-Chloroethyl)ether	0.7	Pyrene	0.6
bis(2-chloroisopropyl)ether	0.01		

From Method 8270E, 11.3.4.2. *Table 4 contains minimum RFs that may be used as guidance in determining if the system is behaving properly and as a check to see if calibration standards are prepared correctly. Because the minimum RFs in Table 4 were determined using specific ions and instrument conditions that may vary, it is neither expected nor required that all analytes meet these minimum RFs. The information is provided as guidance only.*

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	6/25/23	1000
Metolachlor	2003216	3/5/23	1000
Atrazine	2003218	11/21/24	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 $MeCl_2$ (2200721).

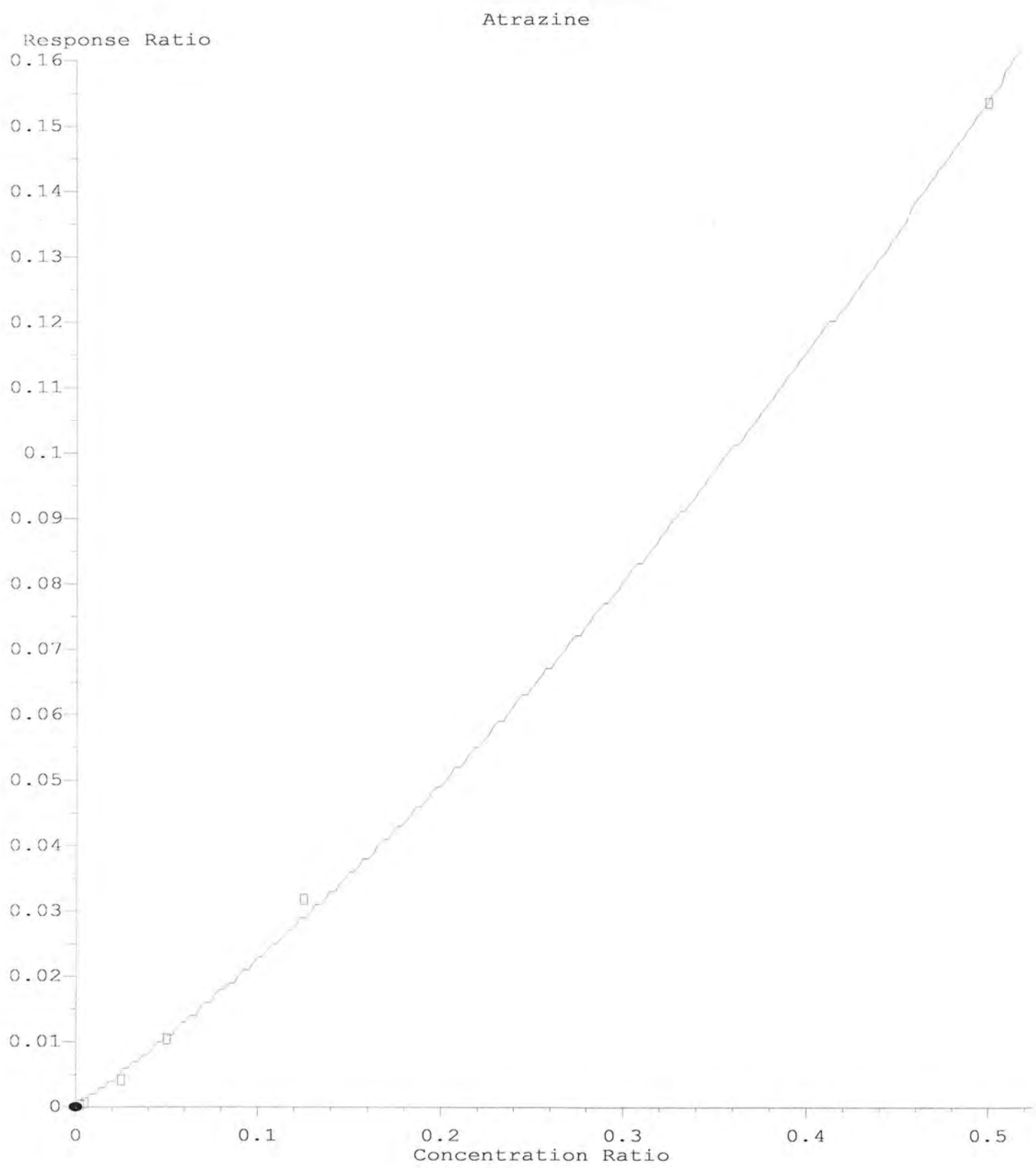
Analyst Initials: _____ Date of Preparation: 3/05/22 by MAH

Method Path : T:\Data1\MSD4\METHODS\2022\
Method File : Cardno-1109B.M
Title : EPA 8270D - GC MSD4
Last Update : Mon Nov 14 09:10:49 2022
Response Via : Initial Calibration

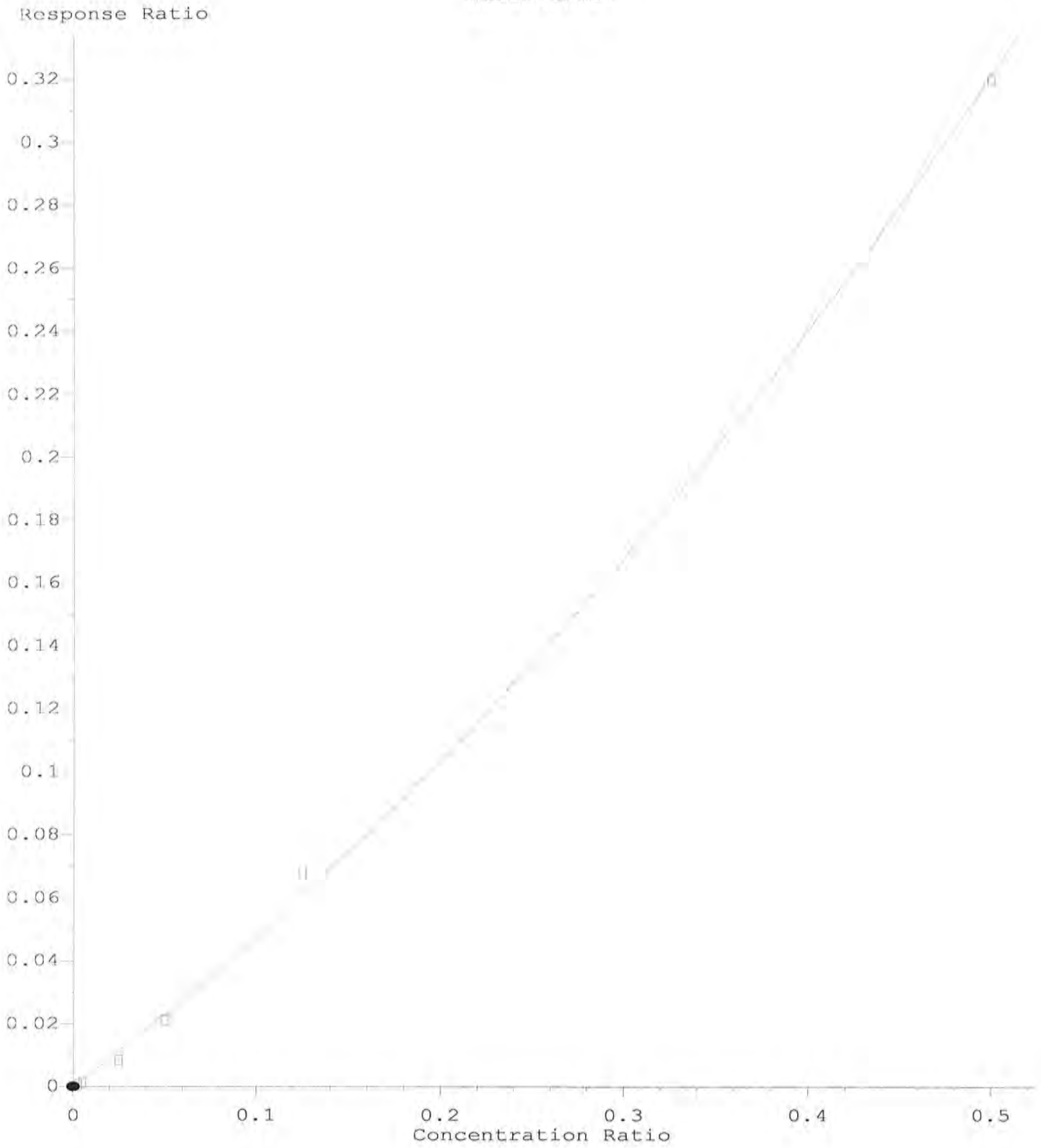
Calibration Files
0.05=10801008.D 10 =10201002.D 2.5 =10301003.D 1 =10501005.D 0.5 =10601006.D 0.1 =10701007.D

		Compound	0.05	10	2.5	1	0.5	0.1	Avg	%RSD
1)	I	Dichlorobenzene-d5	ISTD							
2)	S	2-Fluorobiphenyl	1.464	1.411	1.409	1.381	1.512	1.478	1.442	3.47
3)	I	Acenaphthene-d10	ISTD							
4)		Atrazine	0.127	0.306	0.255	0.209	0.168	0.129	0.199	36.03
5)	I	Phenanthrene-d10	ISTD							
6)		Metolachlor	0.246	0.637	0.546	0.422	0.341	0.267	0.410	38.10
7)		Chlorpyrifos	0.059	0.127	0.114	0.100	0.088	0.067	0.092	28.63
8)	I	Chrysene-d12	ISTD							
9)	S	Terphenyl-d14	1.122	1.148	1.073	0.993	1.238	1.202	1.129	7.84

(#) = Out of Range



R = 2.00e-001 A*A + 2.08e-001 A + 0.00e+000
Coef of Det (r^2) = 0.998 Curve Fit: Quad w(1/a)/(0,0)
Method Name: T:\Data1\MSD4\METHODS\2022\Cardno-1109B.M
Calibration Table Last Updated: Mon Nov 14 09:10:49 2022



R = 4.05e-001 A*A + 4.37e-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\2022\Cardno-1109B.M
Calibration Table Last Updated: Mon Nov 14 09:10:49 2022

R = 5.44e-002 A*A + 1.00e-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\2022\Cardno-1109B.M
Calibration Table Last Updated: Mon Nov 14 09:10:49 2022

PREPARATION BENCH SHEET
Organics

BCJ0361

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

Lab Number	Sample and Source ID	Date Due	Extract by	Prepared - By	Initial (mL)	Final (mL)	ul Spike	ul Surrogate	Extraction Comments
BCJ0361-BLK1	Blank			10/9/22 14:13 MAH	1000	1		25	
BCJ0361-BS1	LCS			10/9/22 14:13 MAH	1000	1	50	25	
BCJ0361-BSD1	LCS Dup			10/9/22 14:13 MAH	1000	1	50	25	
WCJ0253-13	WW-3	10/18/2022	10/10/2022	10/9/22 14:13 MAH	1000	1		25	
WCJ0253-14	E-2	10/18/2022	10/10/2022	10/9/22 14:13 MAH	1000	1		25	
WCJ0253-15	E-1	10/18/2022	10/10/2022	10/9/22 14:13 MAH	1000	1		25	
WCJ0253-16	E-1 DUP	10/18/2022	10/10/2022	10/9/22 14:13 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 tiime: 8AM-3PM
Instrument: 7890/5975 GCMS
Ext. Method: 3520C liq-liq/Waste Dilution/Microextr
TurboVap: 01
Balance: 04

Analyst: _____ Date _____ Run Date: 11-9-22 Date _____

DFTPP

Data Path : T:\Data1\MSD4\2022\NOV\09CD\
Data File : 10101001.D
Acq On : 9 Nov 2022 4:38 pm
Operator : MH
Sample : SYS
Misc :
ALS Vial : 101 Sample Multiplier: 1

Integration File: autoint1.e

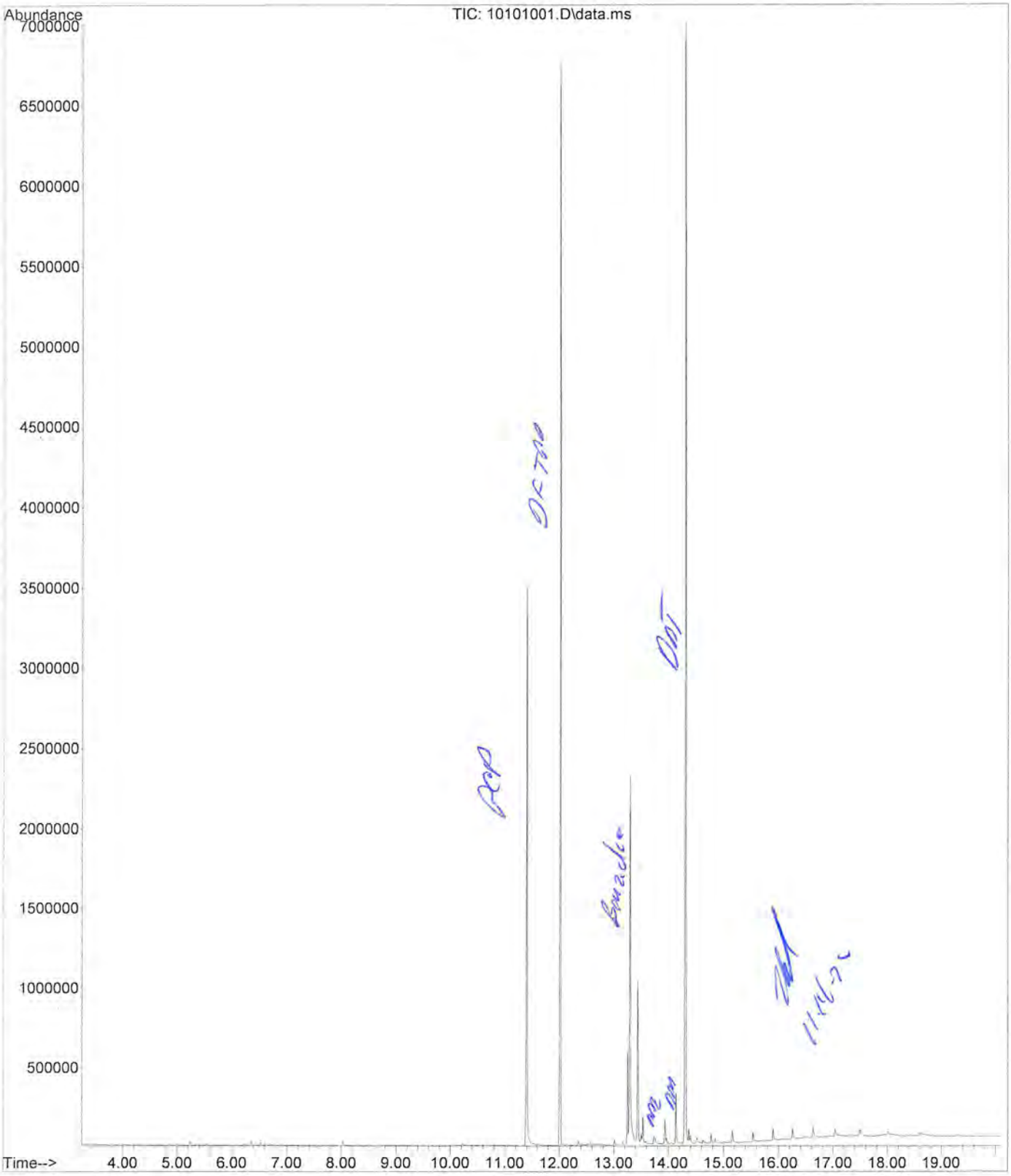
Method : T:\Data1\MSD4\METHODS\2022\BNA-1105.M
Title : EPA 8270D / EPA 625.1 - MSD4
Last Update : Mon Nov 07 13:38:27 2022

AutoFind: Scans 1903, 1904, 1905; Background Corrected with Scan 1894

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	30	60	33.7	182059	PASS
68	69	0.00	2	1.7	3137	PASS
70	69	0.00	2	0.5	961	PASS
127	198	10	80	48.7	262869	PASS
197	198	0.00	2	0.5	2841	PASS
198	198	100	100	100.0	539861	PASS
199	198	5	9	6.7	36237	PASS
275	198	10	60	31.6	170392	PASS
365	198	1	100	5.3	28651	PASS
441	443	0.01	150	74.7	134528	PASS
442	198	30	200	169.2	913387	PASS
443	442	15	24	19.7	180117	PASS

BNA-1105.M Thu Nov 10 09:14:12 2022

File :T:\Data1\MSD4\2022\NOV\09CD\10101001.D
Operator : MH
Acquired : 9 Nov 2022 4:38 pm using AcqMethod SVOCT1.M
Instrument : MSD4
Sample Name: SYS
Misc Info :
Vial Number: 101



Area Percent Report

Data Path : T:\Data1\MSD4\2022\NOV\09CD\
Data File : 10101001.D
Acq On : 9 Nov 2022 4:38 pm
Operator : MH
Sample : SYS
Misc :
ALS Vial : 101 Sample Multiplier: 1

Integration Parameters: autoint1.e
Integrator: ChemStation

Method : T:\Data1\MSD4\METHODS\2022\BNA-1105.M
Title : EPA 8270D / EPA 625.1 - MSD4

Signal : TIC: 10101001.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total	
1	13.588	2239	2244	2250	M2	9577	123571	0.16%	0.159%	DDE
2	13.936	2315	2319	2324	M2	153310	1639546	2.16%	2.107%	DDD
3	14.301	2387	2399	2409	M2	7230185	76058320	100.00%	97.734%	DDT %BREAKDOWN

Sum of corrected areas: 77821436

BNA-1105.M Thu Nov 10 09:19:45 2022

Internal Standard ICal Average Responses	110922_cardno (method)

	1,4 Dichlorobenzene-d4	Naphthalene-d8	Acenaphthene-d10	Phenanthrene-d10	Chrysene-d12	Perylene-d12
0.05	37926671.5		49511382.26	67418645.74	35702144.77	
10	38290872.62		48916403	66757007.06	35873187.53	
2.5	39682567.97		49562186.05	67396598.68	39468684.87	
1	41013773.45		52418349.75	74657136.03	47054048.09	
0.5	34950413.88		45869129.24	61468970.35	29385035.02	
0.1	37441300.88		47745630.92	62403311.97	31107689.08	
Average	38217600	#DIV/0!	49003847	66683612	36431798	#DIV/0!

50%	19108800	#DIV/0!	24501923	33341806	18215899	#DIV/0!
150%	57326400	#DIV/0!	73505770	100025417	54647697	#DIV/0!

Analyst: MAH

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2022\NOV\09CD\
Data File : 10201002.D
Acq On : 9 Nov 2022 5:05 pm
Operator : MH
Sample : CD 10 PPM
Misc :
ALS Vial : 102 Sample Multiplier: 1

Quant Time: Nov 10 09:51:52 2022
Quant Method : T:\Data1\MSD4\METHODS\2022\Cardno-1109B.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Nov 10 09:46:00 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	6.212	150	38293574	20.00	ug/mL		0.00
3) Acenaphthene-d10	9.814	164	48918502	20.00	ug/mL	#	0.00
5) Phenanthrene-d10	11.625	188	66794837	20.00	ug/mL	#	0.00
8) Chrysene-d12	14.852	240	35928117	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	9.007	172	67533216	24.45	ug/mL		0.00
9) Terphenyl-d14	13.597	244	51464673	25.37	ug/mL		0.00
Spiked Amount 25.000			Recovery =	101.48%			
Target Compounds							Qvalue
4) Atrazine	11.311	200	7527312	10.00	ug/mL		97
6) Metolachlor	12.494	162	21247542	9.96	ug/mL		99
7) Chlorpyrifos	12.503	197	4232087	9.97	ug/mL		99

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2022\NOV\09CD\
Data File : 10301003.D
Acq On : 9 Nov 2022 5:32 pm
Operator : MH
Sample : CD 2.5 PPM
Misc :
ALS Vial : 103 Sample Multiplier: 1

Quant Time: Nov 10 09:52:45 2022
Quant Method : T:\Data1\MSD4\METHODS\2022\Cardno-1109B.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Nov 10 09:46:00 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	6.212	150	39682568	20.00	ug/mL		0.00
3) Acenaphthene-d10	9.814	164	49562186	20.00	ug/mL	#	0.00
5) Phenanthrene-d10	11.625	188	67396599	20.00	ug/mL	#	0.00
8) Chrysene-d12	14.852	240	39468685	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	9.008	172	69873781	24.41	ug/mL		0.00
9) Terphenyl-d14	13.597	244	52923677	23.75	ug/mL		0.00
Spiked Amount 25.000			Recovery =	95.00%			
Target Compounds							Qvalue
4) Atrazine	11.309	200	1576802	2.71	ug/mL		97
6) Metolachlor	12.493	162	4597496	2.77	ug/mL		97
7) Chlorpyrifos	12.503	197	964579	2.67	ug/mL		94

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2022\NOV\09CD\
Data File : 10501005.D
Acq On : 9 Nov 2022 6:28 pm
Operator : MH
Sample : CD 1 PPM
Misc :
ALS Vial : 105 Sample Multiplier: 1

Quant Time: Nov 10 09:53:32 2022
Quant Method : T:\Data1\MSD4\METHODS\2022\Cardno-1109B.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Nov 10 09:46:00 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	6.214	150	41013773	20.00	ug/mL		0.00
3) Acenaphthene-d10	9.814	164	52418350	20.00	ug/mL	#	0.00
5) Phenanthrene-d10	11.626	188	74657136	20.00	ug/mL	#	0.00
8) Chrysene-d12	14.853	240	47054048	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	9.008	172	70787013	23.93	ug/mL		0.00
9) Terphenyl-d14	13.597	244	58419598	21.99	ug/mL		0.00
Spiked Amount 25.000			Recovery =	87.96%			
Target Compounds							Qvalue
4) Atrazine	11.311	200	546566	0.96	ug/mL		97
6) Metolachlor	12.494	162	1576529	0.93	ug/mL		98
7) Chlorpyrifos	12.503	197	372333	0.97	ug/mL		95

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2022\NOV\09CD\
Data File : 10601006.D
Acq On : 9 Nov 2022 6:56 pm
Operator : MH
Sample : CD 0.5 PPM
Misc :
ALS Vial : 106 Sample Multiplier: 1

Quant Time: Nov 10 09:54:59 2022
Quant Method : T:\Data1\MSD4\METHODS\2022\Cardno-1109B.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Nov 10 09:46:00 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	6.213	150	34950414	20.00	ug/mL		0.00
3) Acenaphthene-d10	9.814	164	45869129	20.00	ug/mL	#	0.00
5) Phenanthrene-d10	11.625	188	61468970	20.00	ug/mL	#	0.00
8) Chrysene-d12	14.852	240	29385035	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	9.008	172	66060710	26.21	ug/mL		0.00
9) Terphenyl-d14	13.597	244	45490034	27.42	ug/mL		0.00
Spiked Amount 25.000			Recovery =	109.68%			
Target Compounds							Qvalue
4) Atrazine	11.307	200	201718m	0.42	ug/mL		
6) Metolachlor	12.488	162	552000m	0.40	ug/mL		
7) Chlorpyrifos	12.503	197	135027	0.43	ug/mL		98

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2022\NOV\09CD\
Data File : 10701007.D
Acq On : 9 Nov 2022 7:25 pm
Operator : MH
Sample : CD 0.1 PPM
Misc :
ALS Vial : 107 Sample Multiplier: 1

Quant Time: Nov 10 09:56:01 2022
Quant Method : T:\Data1\MSD4\METHODS\2022\Cardno-1109B.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Nov 10 09:46:00 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	6.213	150	37441301	20.00	ug/mL		0.00
3) Acenaphthene-d10	9.814	164	47745631	20.00	ug/mL	#	0.00
5) Phenanthrene-d10	11.626	188	62403312	20.00	ug/mL	#	0.00
8) Chrysene-d12	14.852	240	31107689	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	9.008	172	69166346	25.61	ug/mL		0.00
9) Terphenyl-d14	13.597	244	46719908	26.60	ug/mL		0.00
Spiked Amount 25.000			Recovery =	106.40%			
Target Compounds							Qvalue
4) Atrazine	11.316	200	34104m	0.07	ug/mL		
6) Metolachlor	12.488	162	89788m	0.07	ug/mL		
7) Chlorpyrifos	12.498	197	21567m	0.07	ug/mL		

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2022\NOV\09CD\
Data File : 10801008.D
Acq On : 9 Nov 2022 7:54 pm
Operator : MH
Sample : CD 0.05 PPM
Misc :
ALS Vial : 108 Sample Multiplier: 1

Quant Time: Nov 10 09:57:15 2022
Quant Method : T:\Data1\MSD4\METHODS\2022\Cardno-1109B.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Nov 10 09:46:00 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	6.213	150	37926671	20.00	ug/mL		0.00
3) Acenaphthene-d10	9.815	164	49511382	20.00	ug/mL	#	0.00
5) Phenanthrene-d10	11.626	188	68105358	20.00	ug/mL	#	0.00
8) Chrysene-d12	14.852	240	35702145	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	9.008	172	69428624	25.38	ug/mL		0.00
9) Terphenyl-d14	13.597	244	50082591	24.84	ug/mL		0.00
Spiked Amount 25.000			Recovery =	99.36%			
Target Compounds							Qvalue
4) Atrazine	11.316	200	16287m	0.03	ug/mL		
6) Metolachlor	12.497	162	42917m	0.03	ug/mL		
7) Chlorpyrifos	12.497	197	10202m	0.03	ug/mL		

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2022\NOV\09CD\
Data File : 11101009.D
Acq On : 9 Nov 2022 8:24 pm
Operator : MH J036 - (3)
Sample : BCK0352-BS1
Misc :
ALS Vial : 111 Sample Multiplier: 1

Quant Time: Nov 10 09:57:56 2022
Quant Method : T:\Data1\MSD4\METHODS\2022\Cardno-1109B.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Nov 10 09:46:00 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Dichlorobenzene-d5	6.215	150	33211307	20.00	ug/mL	0.00
3) Acenaphthene-d10	9.815	164	42712767	20.00	ug/mL	# 0.00
5) Phenanthrene-d10	11.625	188	60857712	20.00	ug/mL	# 0.00
8) Chrysene-d12	14.852	240	30945875	20.00	ug/mL	# 0.00
System Monitoring Compounds						
2) 2-Fluorobiphenyl	9.008	172	58226203	24.31	ug/mL	0.00
9) Terphenyl-d14	13.596	244	32999654	18.89	ug/mL	0.00
Spiked Amount 25.000			Recovery =	75.56%		
Target Compounds						Qvalue
4) Atrazine	11.310	200	3047075	5.45	ug/mL	97
6) Metolachlor	12.494	162	8800743	5.31	ug/mL	100
7) Chlorpyrifos	12.503	197	1821974	5.24	ug/mL	98

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2022\NOV\09CD\
Data File : 11201010.D
Acq On : 9 Nov 2022 8:53 pm
Operator : MH J0361
Sample : BCK~~0352~~-BSD1 (4)
Misc :
ALS Vial : 112 Sample Multiplier: 1

Quant Time: Nov 10 09:58:50 2022
Quant Method : T:\Data1\MSD4\METHODS\2022\Cardno-1109B.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Nov 10 09:46:00 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	6.214	150	27172984	20.00	ug/mL		0.00
3) Acenaphthene-d10	9.815	164	33942857	20.00	ug/mL	#	0.00
5) Phenanthrene-d10	11.625	188	50894541	20.00	ug/mL	#	0.00
8) Chrysene-d12	14.852	240	27945954	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	9.008	172	51740370	26.40	ug/mL		0.00
9) Terphenyl-d14	13.597	244	30026990	19.03	ug/mL		0.00
Spiked Amount 25.000			Recovery =	76.12%			
Target Compounds							Qvalue
4) Atrazine	11.310	200	2491765	5.58	ug/mL		96
6) Metolachlor	12.494	162	7190572	5.21	ug/mL		99
7) Chlorpyrifos	12.502	197	1526761	5.25	ug/mL		99

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2022\NOV\09CD\
Data File : 11301011.D
Acq On : 9 Nov 2022 9:22 pm
Operator : MH J0361
Sample : BC~~K0352~~-BLK1
Misc :
ALS Vial : 113 Sample Multiplier: 1

Quant Time: Nov 10 09:59:37 2022
Quant Method : T:\Data1\MSD4\METHODS\2022\Cardno-1109B.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Nov 10 09:46:00 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	6.214	150	30974473	20.00	ug/mL		0.00
3) Acenaphthene-d10	9.814	164	38280279	20.00	ug/mL	#	0.00
5) Phenanthrene-d10	11.626	188	54511462	20.00	ug/mL	#	0.00
8) Chrysene-d12	14.852	240	28661629	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	9.008	172	53518152	23.96	ug/mL		0.00
9) Terphenyl-d14	13.596	244	31208457	19.28	ug/mL		0.00
Spiked Amount 25.000			Recovery =	77.12%			
Target Compounds							Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2022\NOV\09CD\
Data File : 11401012.D
Acq On : 9 Nov 2022 9:52 pm
Operator : MH
Sample : WCJ0253-13
Misc :
ALS Vial : 114 Sample Multiplier: 1

Quant Time: Nov 10 10:00:28 2022
Quant Method : T:\Data1\MSD4\METHODS\2022\Cardno-1109B.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Nov 10 09:46:00 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	6.215	150	37367913	20.00	ug/mL		0.00
3) Acenaphthene-d10	9.816	164	51559408	20.00	ug/mL	#	0.00
5) Phenanthrene-d10	11.628	188	76797944	20.00	ug/mL	#	0.00
8) Chrysene-d12	14.853	240	47987987	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	9.009	172	67477611	25.04	ug/mL		0.00
9) Terphenyl-d14	13.597	244	46565459	17.18	ug/mL		0.00
Spiked Amount 25.000			Recovery =	68.72%			
Target Compounds							Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2022\NOV\09CD\
Data File : 11501013.D
Acq On : 9 Nov 2022 10:22 pm
Operator : MH
Sample : WCJ0253-14
Misc :
ALS Vial : 115 Sample Multiplier: 1

Quant Time: Nov 10 10:02:49 2022
Quant Method : T:\Data1\MSD4\METHODS\2022\Cardno-1109B.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Nov 10 09:46:00 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	6.215	150	43831739	20.00	ug/mL		0.00
3) Acenaphthene-d10	9.815	164	63276813	20.00	ug/mL	#	0.00
5) Phenanthrene-d10	11.628	188	97727445	20.00	ug/mL	#	0.00
8) Chrysene-d12	14.856	240	60494118	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	9.008	172	70036940	22.15	ug/mL		0.00
9) Terphenyl-d14	13.597	244	51486076	15.07	ug/mL		0.00
Spiked Amount 25.000			Recovery =	60.28%			
Target Compounds							Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2022\NOV\09CD\
Data File : 11601014.D
Acq On : 9 Nov 2022 10:52 pm
Operator : MH
Sample : WCJ0253-15
Misc :
ALS Vial : 116 Sample Multiplier: 1

Quant Time: Nov 10 10:04:32 2022
Quant Method : T:\Data1\MSD4\METHODS\2022\Cardno-1109B.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Nov 10 09:46:00 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	6.215	150	36573517	20.00	ug/mL		0.00
3) Acenaphthene-d10	9.815	164	50253169	20.00	ug/mL	#	0.00
5) Phenanthrene-d10	11.627	188	74218361	20.00	ug/mL	#	0.00
8) Chrysene-d12	14.853	240	46313799	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	9.008	172	64517273	24.46	ug/mL		0.00
9) Terphenyl-d14	13.597	244	43721633	16.72	ug/mL		0.00
Spiked Amount 25.000			Recovery =	66.88%			
Target Compounds							Qvalue

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

Quantitation Report (QT Reviewed)

Data Path : T:\Data1\MSD4\2022\NOV\09CD\
Data File : 11701015.D
Acq On : 9 Nov 2022 11:22 pm
Operator : MH
Sample : WCJ0253-16
Misc :
ALS Vial : 117 Sample Multiplier: 1

Quant Time: Nov 10 10:05:52 2022
Quant Method : T:\Data1\MSD4\METHODS\2022\Cardno-1109B.M
Quant Title : EPA 8270D - GC MSD4
QLast Update : Thu Nov 10 09:46:00 2022
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Dichlorobenzene-d5	6.215	150	37542389	20.00	ug/mL		0.00
3) Acenaphthene-d10	9.816	164	52476677	20.00	ug/mL	#	0.00
5) Phenanthrene-d10	11.627	188	77115061	20.00	ug/mL	#	0.00
8) Chrysene-d12	14.853	240	46641486	20.00	ug/mL	#	0.00
System Monitoring Compounds							
2) 2-Fluorobiphenyl	9.008	172	62339373	23.02	ug/mL		0.00
9) Terphenyl-d14	13.596	244	44867454	17.04	ug/mL		0.00
Spiked Amount 25.000			Recovery =	68.16%			
Target Compounds							Qvalue

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