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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM101824 SAS No.: BM101824 SDG No.: BM101824

Instrument ID: BNA_M Calibration Date/Time: 10/18/2024 1 20:57

Lab File ID: BM048145.D Init. Calib. Date(s):

EPA Sample No.: SICV028 Init. Calib. Time(s):

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.639	0.608	0.010	-4.8626	40.0
1,4-Dioxane-d8	0.544	0.551	0.010	1.3122	40.0
Naphthalene	1.087	1.091	0.600	0.4047	30.0
1-Methylnaphthalene	0.716	0.663	0.300	-7.3169	30.0
2-Methylnaphthalene	0.622	0.640	0.300	2.8536	30.0
Acenaphthylene	1.848	1.876	0.900	1.5351	30.0
Acenaphthene	1.321	1.314	0.500	-0.4743	30.0
Fluorene	1.415	1.441	0.700	1.89	30.0
Pentachlorophenol	0.134	0.130	0.010	-3.3884	50.0
Phenanthrene	1.011	1.121	0.300	10.8683	30.0
Anthracene	0.956	1.076	0.400	12.4962	30.0
Fluoranthene	1.570	1.556	0.400	-0.9067	30.0
Pyrene	1.688	1.683	0.500	-0.2758	30.0
Benzo(a)anthracene	1.232	1.133	0.400	-8.0492	30.0
Chrysene	1.876	1.780	0.400	-5.1046	30.0
Benzo(b)fluoranthene	1.533	1.365	0.200	-10.9211	30.0
Benzo(k)fluoranthene	1.855	1.724	0.200	-7.0768	30.0
Benzo(a)pyrene	1.276	1.358	0.200	6.4244	30.0
Indeno(1,2,3-cd)pyrene	1.913	1.756	0.200	-8.1911	30.0
Dibenzo(a,h)anthracene	1.461	1.327	0.200	-9.1875	30.0
Benzo(g,h,i)perylene	1.598	1.492	0.200	-6.6536	30.0
Fluoranthene-d10	1.164	1.157	0.400	-0.5963	30.0
2-Methylnaphthalene-d10	0.558	0.529	0.300	-5.0911	30.0

All other compounds must meet a minimum RRF of 0.010.

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Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:		SDG No.:	
Lab Sample ID:		Matrix:	
Analytical Method:			
Sample Wt/Vol:	Units:	Final Vol:	
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

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Hit Summary Sheet
SW-846

SDG No.: BM101824

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID :							

Total Concentration:

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM101824 SAS No.: BM101824 SDG No.: BM101824

Instrument ID: Calibration Date(s): 10/18/2024

Calibration Time(s): 17:20

LAB FILE ID: RRFAL1 = BM048139.D RRFAL2 = BM048140.D RRFAL3 = BM048141.D
RRFAL4 = BM048142.D RRFAL5 = BM048143.D RRFAL6 = BM048144.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.786	0.698	0.634	0.549	0.525	0.639	16.9
1,4-Dioxane-d8		0.627	0.575	0.550	0.491	0.476	0.544	11.4
Naphthalene	1.150	1.079	1.045	1.095	1.066		1.087	3.7
1-Methylnaphthalene	0.780	0.720	0.675	0.714	0.689		0.716	5.6
2-Methylnaphthalene	0.616	0.585	0.600	0.653	0.655		0.622	5.0
Acenaphthylene	1.860	1.817	1.770	1.934	1.857		1.848	3.3
Acenaphthene	1.357	1.314	1.287	1.362	1.282		1.321	2.9
Fluorene	1.424	1.380	1.373	1.472	1.425		1.415	2.8
Pentachlorophenol		0.139	0.123	0.131	0.132	0.147	0.134	6.6
Phenanthrene	1.019	0.960	0.944	1.060	1.072		1.011	5.7
Anthracene	0.977	0.909	0.900	0.994	1.003		0.956	5.1
Fluoranthene	1.647	1.552	1.463	1.601	1.587		1.570	4.4
Pyrene	1.791	1.684	1.583	1.715	1.669		1.688	4.5
Benzo(a)anthracene	1.375	1.132	1.083	1.268	1.302		1.232	9.8
Chrysene	2.312	2.014	1.763	1.713	1.578		1.876	15.5
Benzo(b)fluoranthene	1.887	1.538	1.348	1.435	1.455		1.533	13.7
Benzo(k)fluoranthene	2.275	1.954	1.686	1.754	1.607		1.855	14.4
Benzo(a)pyrene	1.339	1.293	1.198	1.291	1.261		1.276	4.1
Indeno(1,2,3-cd)pyrene	2.192	1.945	1.738	1.872	1.816		1.913	9.1
Dibenzo(a,h)anthracene	1.690	1.482	1.324	1.430	1.378		1.461	9.6
Benzo(g,h,i)perylene	1.859	1.629	1.474	1.552	1.475		1.598	10.0
Fluoranthene-d10	1.160	1.135	1.105	1.211	1.208		1.164	3.9
2-Methylnaphthalene-d10	0.574	0.554	0.535	0.566	0.558		0.558	2.7

All other compounds must meet a minimum RRF of 0.010.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM101824 SAS No.: BM101824 SDG NO.: BM101824

EPA Sample No.: SSTD0.4024 Date Analyzed: Oct 18 2024 12:00AM

Lab File ID: BM048141.D Time Analyzed: 20:57

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	5241	7.801	17248	10.59	9839	14.42
	UPPER LIMIT	10482	8.301	34496	11.089	19678	14.918
	LOWER LIMIT	2620.5	7.301	8624	10.089	4919.5	13.918
	EPA SAMPLE NO.						
01	SICV028	5936	7.79	18177	10.59	10613	14.41

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM101824 SAS No.: BM101824 SDG NO.: BM101824

EPA Sample No.: _____ Date Analyzed: _____

Lab File ID: _____ Time Analyzed: _____

Instrument ID: _____ GC Column: _____ ID: _____ (mm)

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD						
UPPER LIMIT						
LOWER LIMIT						
EPA SAMPLE NO.						

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM101824 SAS No.: BM101824 SDG NO.: BM101824

EPA Sample No.: SSTD0.4024 Date Analyzed: Oct 18 2024 12:00AM

Lab File ID: BM048141.D Time Analyzed: 20:57

Instrument ID: BNA_M GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	19041	17.174	17049	21.336	16460	23.598
	UPPER LIMIT	38082	17.674	34098	21.836	32920	24.098
	LOWER LIMIT	9520.5	16.674	8524.5	20.836	8230	23.098
	EPA SAMPLE NO.						
01	SICV028	18765	17.16	17594	21.34	17402	23.60

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM101824 SAS No.: BM101824 SDG NO.: BM101824

EPA Sample No.: _____ Date Analyzed: _____

Lab File ID: _____ Time Analyzed: _____

Instrument ID: _____ GC Column: _____ ID: _____ (mm)

	IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
12 HOUR STD						
UPPER LIMIT						
LOWER LIMIT						
EPA SAMPLE NO.						

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: BM101824

Client:

Analytical Method: SFAM_SVOASIM **DataFile:**

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
SSTDICV0.4	1,4-Dioxane	0.4	0	ug/L	0				0	0	
	Naphthalene	0.4	0	ug/L	0				0	0	
	1-Methylnaphthalene	0.4	0	ug/L	0				0	0	
	2-Methylnaphthalene	0.4	0	ug/L	0				0	0	
	Acenaphthylene	0.4	0	ug/L	0				0	0	
	Acenaphthene	0.4	0	ug/L	0				0	0	
	Fluorene	0.4	0	ug/L	0				0	0	
	Pentachlorophenol	0.4	0	ug/L	0				0	0	
	Phenanthrene	0.4	0	ug/L	0				0	0	
	Anthracene	0.4	0	ug/L	0				0	0	
	Fluoranthene	0.4	0	ug/L	0				0	0	
	Pyrene	0.4	0	ug/L	0				0	0	
	Benzo(a)anthracene	0.4	0	ug/L	0				0	0	
	Chrysene	0.4	0	ug/L	0				0	0	
	Benzo(b)fluoranthene	0.4	0	ug/L	0				0	0	
	Benzo(k)fluoranthene	0.4	0	ug/L	0				0	0	
	Benzo(a)pyrene	0.4	0	ug/L	0				0	0	
	Indeno(1,2,3-cd)pyrene	0.4	0	ug/L	0				0	0	
	Dibenzo(a,h)anthracene	0.4	0	ug/L	0				0	0	
	Benzo(g,h,i)perylene	0.4	0	ug/L	0				0	0	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM101824 SAS No.: BM101824 SDG NO.: BM101824

Lab File ID: Lab Sample ID:

Instrument ID: Date Extracted:

Matrix: (soil/water) Date Analyzed:

Level: (low/med) Time Analyzed:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED

COMMENTS:

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Surrogate Summary

SW-846

SDG No.: _____

Client: _____

Analytical Method:

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BM101824

Lab Code: CHEM SAS No.: BM101824 SDG NO.: BM101824

Lab File ID: BM048138.D DFTPP Injection Date: 10/18/2024

Instrument ID: BNA_M DFTPP Injection Time: 16:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.4
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	32.7
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	43.9
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	25.5
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	13.4
442	Greater than 50% of mass 198	84.3
443	15.0 - 24.0% of mass 442	16.3 (19.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD0.1022	SSTD0.193	BM048139.D	10/18/2024	17:20
SSTD0.2023	SSTD0.294	BM048140.D	10/18/2024	17:56
SSTD0.4024	SSTD0.495	BM048141.D	10/18/2024	18:32
SSTD0.8025	SSTD0.896	BM048142.D	10/18/2024	19:08
SSTD1.6026	SSTD1.697	BM048143.D	10/18/2024	19:44
SSTD3.2027	SSTD3.298	BM048144.D	10/18/2024	20:20
SICV028	SSTDICV0.4	BM048145.D	10/18/2024	20:57