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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BM011725 SAS No.: BM011725 SDG No.: BM011725

Instrument ID: BNA_M Calibration Date/Time: 1/17/2025 12 15:38

Lab File ID: BM049357.D Init. Calib. Date(s):

EPA Sample No.: SICV026 Init. Calib. Time(s):

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.524	0.518	0.010	-1.0875	40.0
1,4-Dioxane-d8	0.466	0.477	0.010	2.3925	40.0
Naphthalene	0.982	0.984	0.600	0.1956	30.0
1-Methylnaphthalene	0.619	0.589	0.300	-4.8605	30.0
2-Methylnaphthalene	0.583	0.602	0.300	3.2885	30.0
Acenaphthylene	1.485	1.521	0.900	2.3903	30.0
Acenaphthene	1.175	1.178	0.500	0.2981	30.0
Fluorene	1.220	1.248	0.700	2.3574	30.0
Pentachlorophenol	0.077	0.076	0.010	-1.6645	50.0
Phenanthrene	0.927	0.906	0.300	-2.2123	30.0
Anthracene	0.821	0.816	0.400	-0.5707	30.0
Fluoranthene	1.724	1.755	0.400	1.8096	30.0
Pyrene	1.778	1.799	0.500	1.1814	30.0
Benzo(a)anthracene	1.148	1.063	0.400	-7.4152	30.0
Chrysene	1.574	1.620	0.400	2.9316	30.0
Benzo(b)fluoranthene	1.313	1.289	0.200	-1.7577	30.0
Benzo(k)fluoranthene	1.531	1.525	0.200	-0.4454	30.0
Benzo(a)pyrene	1.186	1.223	0.200	3.139	30.0
Indeno(1,2,3-cd)pyrene	1.612	1.579	0.200	-2.0237	30.0
Dibenzo(a,h)anthracene	1.164	1.187	0.200	1.9832	30.0
Benzo(g,h,i)perylene	1.429	1.338	0.200	-6.3647	30.0
Fluoranthene-d10	1.365	1.398	0.400	2.3775	30.0
2-Methylnaphthalene-d10	0.509	0.515	0.300	1.3059	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.: BM011725

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.: BM011725 SAS No.: BM011725 SDG No.: BM011725

Instrument ID: Calibration Date(s): 1/17/2025

Calibration Time(s): 12:03

LAB FILE ID: RRFAL1 = BM049351.D RRFAL2 = BM049352.D RRFAL3 = BM049353.D
RRFAL4 = BM049354.D RRFAL5 = BM049355.D RRFAL6 = BM049356.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.614	0.556	0.522	0.467	0.462	0.524	12.2
1,4-Dioxane-d8		0.501	0.517	0.458	0.430	0.421	0.466	9.1
Naphthalene	1.017	0.995	0.998	0.960	0.938		0.982	3.2
1-Methylnaphthalene	0.632	0.618	0.635	0.608	0.604		0.619	2.2
2-Methylnaphthalene	0.585	0.564	0.584	0.587	0.592		0.583	1.9
Acenaphthylene	1.469	1.467	1.551	1.472	1.467		1.485	2.5
Acenaphthene	1.208	1.197	1.149	1.171	1.150		1.175	2.3
Fluorene	1.177	1.159	1.232	1.266	1.264		1.220	4.1
Pentachlorophenol		0.050	0.079	0.077	0.083	0.098	0.077	22.9
Phenanthrene	0.895	0.882	0.914	0.992	0.951		0.927	4.8
Anthracene	0.759	0.792	0.812	0.877	0.865		0.821	6.0
Fluoranthene	1.841	1.771	1.716	1.639	1.654		1.724	4.9
Pyrene	1.913	1.839	1.767	1.691	1.679		1.778	5.6
Benzo(a)anthracene	1.113	1.074	1.119	1.194	1.241		1.148	5.9
Chrysene	1.748	1.678	1.569	1.482	1.392		1.574	9.1
Benzo(b)fluoranthene	1.319	1.292	1.258	1.355	1.339		1.313	2.9
Benzo(k)fluoranthene	1.654	1.549	1.494	1.513	1.447		1.531	5.1
Benzo(a)pyrene	1.218	1.231	1.077	1.208	1.194		1.186	5.3
Indeno(1,2,3-cd)pyrene	1.563	1.627	1.566	1.643	1.660		1.612	2.8
Dibenzo(a,h)anthracene	1.085	1.134	1.138	1.220	1.241		1.164	5.6
Benzo(g,h,i)perylene	1.493	1.471	1.391	1.396	1.396		1.429	3.4
Fluoranthene-d10	1.457	1.400	1.405	1.281	1.284		1.365	5.8
2-Methylnaphthalene-d10	0.500	0.485	0.548	0.503	0.508		0.509	4.7

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.: BM011725 SAS No.: BM011725 SDG NO.: BM011725

EPA Sample No.: SSTD0.4022 Date Analyzed: Jan 17 2025 12:00AM

Lab File ID: BM049353.D Time Analyzed: 15:38

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	5918	7.531	16894	10.29	9109	14.17
	UPPER LIMIT	11836	8.031	33788	10.792	18218	14.668
	LOWER LIMIT	2959	7.031	8447	9.792	4554.5	13.668
	EPA SAMPLE NO.						
01	SICV026	6470	7.53	18427	10.29	10312	14.17

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.: BM011725 SAS No.: BM011725 SDG NO.: BM011725

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.: BM011725 SAS No.: BM011725 SDG NO.: BM011725

EPA Sample No.: SSTD0.4022 Date Analyzed: Jan 17 2025 12:00AM

Lab File ID: BM049353.D Time Analyzed: 15:38

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	16503	16.925	10711	21.126	11306	23.277
	UPPER LIMIT	33006	17.425	21422	21.626	22612	23.777
	LOWER LIMIT	8251.5	16.425	5355.5	20.626	5653	22.777
	EPA SAMPLE NO.						
01	SICV026	19201	16.93	12220	21.13	12288	23.28

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.: BM011725 SAS No.: BM011725 SDG NO.: BM011725

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.: BM011725

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.: BM011725 SAS No.: BM011725 SDG NO.: BM011725

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: BM011725

Lab Code: CHEM SAS No.: BM011725 SDG NO.: BM011725

Lab File ID: BM049350.D DFTPP Injection Date: 01/17/2025

Instrument ID: BNA_M DFTPP Injection Time: 11:14

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.1
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	35
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	40.3
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	6.5
275	10.0 - 60.0% of mass 198	23.4
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	10.3
442	Greater than 50% of mass 198	62.6
443	15.0 - 24.0% of mass 442	12.1 (19.3) 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
SSTD0.1020	SSTD0.136	BM049351.D	01/17/2025	12:03
SSTD0.2021	SSTD0.237	BM049352.D	01/17/2025	12:38
SSTD0.4022	SSTD0.438	BM049353.D	01/17/2025	13:14
SSTD0.8023	SSTD0.839	BM049354.D	01/17/2025	13:50
SSTD1.6024	SSTD1.640	BM049355.D	01/17/2025	14:26
SSTD3.2025	SSTD3.241	BM049356.D	01/17/2025	15:02
SICV026	SSTDICV0.4	BM049357.D	01/17/2025	15:38