

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____
 Lab Code: CHEM Case No.: BN012125 SAS No.: BN012125 SDG No.: BN012125
 Instrument ID: BNA_N Calibration Date/Time: 1/21/2025 16:41
 Lab File ID: BN036008.D Init. Calib. Date(s): _____
 EPA Sample No.: SICV201 Init. Calib. Time(s): _____
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.468	0.468	0.010	0.1383	40.0
1,4-Dioxane-d8	0.438	0.447	0.010	2.0237	40.0
Naphthalene	1.102	1.109	0.600	0.6188	30.0
1-Methylnaphthalene	0.695	0.640	0.300	-7.9016	30.0
2-Methylnaphthalene	0.685	0.687	0.300	0.4121	30.0
Acenaphthylene	1.885	1.877	0.900	-0.4463	30.0
Acenaphthene	1.388	1.382	0.500	-0.3891	30.0
Fluorene	1.533	1.474	0.700	-3.7959	30.0
Pentachlorophenol	0.140	0.140	0.010	-0.1076	50.0
Phenanthrene	1.171	1.164	0.300	-0.6329	30.0
Anthracene	1.089	1.075	0.400	-1.2868	30.0
Fluoranthene	1.520	1.522	0.400	0.1045	30.0
Pyrene	1.587	1.576	0.500	-0.6679	30.0
Benzo (a) anthracene	1.428	1.403	0.400	-1.7571	30.0
Chrysene	1.459	1.452	0.400	-0.454	30.0
Benzo (b) fluoranthene	1.335	1.347	0.200	0.9083	30.0
Benzo (k) fluoranthene	1.404	1.397	0.200	-0.4719	30.0
Benzo (a) pyrene	1.206	1.255	0.200	4.0972	30.0
Indeno (1,2,3-cd) pyrene	1.594	1.595	0.200	0.019	30.0
Dibenzo (a,h) anthracene	1.229	1.259	0.200	2.4311	30.0
Benzo (g,h,i) perylene	1.238	1.214	0.200	-1.9812	30.0
Fluoranthene-d10	1.099	1.109	0.400	0.8625	30.0
2-Methylnaphthalene-d10	0.505	0.502	0.300	-0.6265	30.0

All other compounds must meet a minimum RRF of 0.010.

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
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CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
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Hit Summary Sheet
SW-846

SDG No.: BN012125

Client:

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

Total Concentration:



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BN012125 SAS No.: BN012125 SDG No.: BN012125
Instrument ID: _____ Calibration Date(s): 1/21/2025 : _____
Calibration Time(s): 12:36 _____

LAB FILE ID:		RRFAL1 = BN036002.D			RRFAL2 = BN036003.D		RRFAL3 = BN036004.D	
		RRFAL4 = BN036005.D			RRFAL5 = BN036006.D		RRFAL6 = BN036007.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.471	0.462	0.447	0.446	0.511	0.468	5.7
1,4-Dioxane-d8		0.484	0.420	0.412	0.410	0.463	0.438	7.7
Naphthalene	1.134	1.103	1.114	1.089	1.070		1.102	2.2
1-Methylnaphthalene	0.713	0.690	0.704	0.675	0.691		0.695	2.1
2-Methylnaphthalene	0.701	0.678	0.689	0.677	0.678		0.685	1.5
Acenaphthylene	1.927	1.871	1.883	1.916	1.831		1.885	2.0
Acenaphthene	1.419	1.413	1.361	1.391	1.354		1.388	2.1
Fluorene	1.548	1.500	1.552	1.556	1.507		1.533	1.7
Pentachlorophenol		0.113	0.151	0.131	0.149	0.157	0.140	12.7
Phenanthrene	1.194	1.173	1.185	1.160	1.144		1.171	1.7
Anthracene	1.087	1.079	1.104	1.083	1.091		1.089	0.9
Fluoranthene	1.559	1.545	1.477	1.524	1.496		1.520	2.2
Pyrene	1.658	1.622	1.529	1.585	1.541		1.587	3.4
Benzo(a)anthracene	1.442	1.439	1.427	1.426	1.406		1.428	1.0
Chrysene	1.491	1.473	1.472	1.452	1.405		1.459	2.3
Benzo(b)fluoranthene	1.352	1.322	1.354	1.333	1.314		1.335	1.3
Benzo(k)fluoranthene	1.430	1.418	1.398	1.415	1.357		1.404	2.0
Benzo(a)pyrene	1.221	1.238	1.124	1.229	1.215		1.206	3.8
Indeno(1,2,3-cd)pyrene	1.594	1.577	1.583	1.621	1.598		1.594	1.1
Dibenzo(a,h)anthracene	1.206	1.195	1.239	1.257	1.247		1.229	2.2
Benzo(g,h,i)perylene	1.241	1.219	1.237	1.257	1.239		1.238	1.1
Fluoranthene-d10	1.134	1.129	1.094	1.087	1.051		1.099	3.1
2-Methylnaphthalene-d10	0.515	0.498	0.533	0.491	0.488		0.505	3.7

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN012125 SAS No.: BN012125 SDG NO.: BN012125

EPA Sample No.: SSTD0.4246 Date Analyzed: Jan 21 2025 12:00AM

Lab File ID: BN036004.D Time Analyzed: 16:41

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	2325	7.816	4615	10.61	2367	14.45
UPPER LIMIT	4650	8.316	9230	11.105	4734	14.95
LOWER LIMIT	1162.5	7.316	2307.5	10.105	1183.5	13.95
EPA SAMPLE NO.						
01 SICV201	2858	7.81	5645	10.61	2812	14.45

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN012125 SAS No.: BN012125 SDG NO.: BN012125

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN012125 SAS No.: BN012125 SDG NO.: BN012125

EPA Sample No.: SSTD0.4246 Date Analyzed: Jan 21 2025 12:00AM

Lab File ID: BN036004.D Time Analyzed: 16:41

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

01

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	4926	17.191	4604	21.371	4940	23.666
UPPER LIMIT	9852	17.691	9208	21.871	9880	24.166
LOWER LIMIT	2463	16.691	2302	20.871	2470	23.166
EPA SAMPLE NO.						
SICV201	5615	17.19	4425	21.37	4716	23.67

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN012125 SAS No.: BN012125 SDG NO.: BN012125

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.

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: BN012125

Client: _____

Analytical Method: SFAM_SVOASIM DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
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	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

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Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN012125

SAS No.: BN012125 SDG NO.: BN012125

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	Result	Recovery (%)	Qual	Limits (%)	
				(PPM)	(PPM)			Low	High

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BN012125

Lab Code: CHEM

SAS No.: BN012125 SDG NO.: BN012125

Lab File ID: BN036001.D

DFTPP Injection Date: 01/21/2025

Instrument ID: BNA_N

DFTPP Injection Time: 11:57

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	51.1
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	46
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	45.9
197	Less than 2.0% of mass 198	0.0
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	26
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	9.8
442	Greater than 50% of mass 198	59.9
443	15.0 - 24.0% of mass 442	11.5 (19.1) 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
SSTD0.1244	SSTD0.155	BN036002.D	01/21/2025	12:36
SSTD0.2245	SSTD0.256	BN036003.D	01/21/2025	13:11
SSTD0.4246	SSTD0.457	BN036004.D	01/21/2025	13:47
SSTD0.8247	SSTD0.858	BN036005.D	01/21/2025	14:23
SSTD1.6248	SSTD1.659	BN036006.D	01/21/2025	14:59
SSTD3.2249	SSTD3.260	BN036007.D	01/21/2025	15:35
SICV201	SSTDICV0.4	BN036008.D	01/21/2025	16:41