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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN082724 SAS No.: BN082724 SDG No.: BN082724

Instrument ID: BNA_N Calibration Date/Time: 8/27/2024 12 14:48

Lab File ID: BN033636.D Init. Calib. Date(s):

EPA Sample No.: SICV208 Init. Calib. Time(s):

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.456	0.461	0.010	0.9264	40.0
1,4-Dioxane-d8	0.411	0.449	0.010	9.1998	40.0
Naphthalene	1.070	1.081	0.600	1.0488	30.0
1-Methylnaphthalene	0.697	0.642	0.300	-7.8579	30.0
2-Methylnaphthalene	0.678	0.693	0.300	2.197	30.0
Acenaphthylene	1.817	1.883	0.900	3.6499	30.0
Acenaphthene	1.311	1.342	0.500	2.3689	30.0
Fluorene	1.465	1.509	0.700	2.9978	30.0
Pentachlorophenol	0.126	0.103	0.010	-18.2039	50.0
Phenanthrene	1.180	1.140	0.300	-3.3794	30.0
Anthracene	1.061	1.053	0.400	-0.678	30.0
Fluoranthene	1.578	1.543	0.400	-2.2649	30.0
Pyrene	1.675	1.627	0.500	-2.8758	30.0
Benzo(a)anthracene	1.575	1.508	0.400	-4.2219	30.0
Chrysene	1.591	1.518	0.400	-4.5619	30.0
Benzo(b)fluoranthene	1.553	1.470	0.200	-5.3423	30.0
Benzo(k)fluoranthene	1.553	1.450	0.200	-6.6242	30.0
Benzo(a)pyrene	1.247	1.328	0.200	6.4862	30.0
Indeno(1,2,3-cd)pyrene	1.873	1.761	0.200	-6.0024	30.0
Dibenzo(a,h)anthracene	1.454	1.381	0.200	-5.0537	30.0
Benzo(g,h,i)perylene	1.463	1.390	0.200	-5.0425	30.0
Fluoranthene-d10	1.192	1.174	0.400	-1.554	30.0
2-Methylnaphthalene-d10	0.574	0.557	0.300	-2.9797	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.: BN082724

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.: BN082724 SAS No.: BN082724 SDG No.: BN082724

Instrument ID: Calibration Date(s): 8/27/2024

Calibration Time(s): 11:11

LAB FILE ID: RRFAL1 = BN033630.D RRFAL2 = BN033631.D RRFAL3 = BN033632.D
RRFAL4 = BN033633.D RRFAL5 = BN033634.D RRFAL6 = BN033635.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.431	0.466	0.456	0.462	0.466	0.456	3.2
1,4-Dioxane-d8		0.401	0.416	0.418	0.407	0.414	0.411	1.8
Naphthalene	1.091	1.065	1.051	1.093	1.048		1.070	2.0
1-Methylnaphthalene	0.714	0.694	0.690	0.701	0.686		0.697	1.6
2-Methylnaphthalene	0.692	0.670	0.668	0.689	0.670		0.678	1.7
Acenaphthylene	1.867	1.787	1.811	1.821	1.797		1.817	1.7
Acenaphthene	1.337	1.286	1.321	1.328	1.284		1.311	1.9
Fluorene	1.484	1.440	1.485	1.469	1.449		1.465	1.4
Pentachlorophenol		0.126	0.117	0.122	0.127	0.137	0.126	5.8
Phenanthrene	1.278	1.166	1.111	1.194	1.150		1.180	5.3
Anthracene	1.084	1.054	1.009	1.082	1.073		1.061	3.0
Fluoranthene	1.746	1.573	1.488	1.548	1.536		1.578	6.3
Pyrene	1.871	1.684	1.579	1.636	1.606		1.675	6.9
Benzo(a)anthracene	1.790	1.605	1.476	1.490	1.514		1.575	8.3
Chrysene	1.874	1.628	1.481	1.500	1.471		1.591	10.7
Benzo(b)fluoranthene	1.812	1.530	1.451	1.544	1.426		1.553	9.9
Benzo(k)fluoranthene	1.811	1.560	1.433	1.492	1.471		1.553	9.7
Benzo(a)pyrene	1.392	1.240	1.158	1.237	1.206		1.247	7.0
Indeno(1,2,3-cd)pyrene	2.186	1.873	1.728	1.842	1.735		1.873	9.9
Dibenzo(a,h)anthracene	1.682	1.466	1.340	1.430	1.354		1.454	9.5
Benzo(g,h,i)perylene	1.693	1.462	1.354	1.457	1.352		1.463	9.5
Fluoranthene-d10	1.218	1.193	1.154	1.197	1.200		1.192	2.0
2-Methylnaphthalene-d10	0.590	0.571	0.566	0.576	0.566		0.574	1.7

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.: BN082724 SAS No.: BN082724 SDG NO.: BN082724

EPA Sample No.: SSTD0.4204 Date Analyzed: Aug 27 2024 12:00AM

Lab File ID: BN033632.D Time Analyzed: 14:48

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	5619	7.54	15327	10.30	7957	14.18
	UPPER LIMIT	11238	8.04	30654	10.798	15914	14.678
	LOWER LIMIT	2809.5	7.04	7663.5	9.798	3978.5	13.678
	EPA SAMPLE NO.						
01	SICV208	5585	7.54	15133	10.30	7741	14.18

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.: BN082724 SAS No.: BN082724 SDG NO.: BN082724

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.: BN082724 SAS No.: BN082724 SDG NO.: BN082724

EPA Sample No.: SSTD0.4204 Date Analyzed: Aug 27 2024 12:00AM

Lab File ID: BN033632.D Time Analyzed: 14:48

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	16648	16.93	14141	21.137	15253	23.3
	UPPER LIMIT	33296	17.43	28282	21.637	30506	23.8
	LOWER LIMIT	8324	16.43	7070.5	20.637	7626.5	22.8
	EPA SAMPLE NO.						
01	SICV208	15980	16.93	13187	21.14	14416	23.30

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.: BN082724 SAS No.: BN082724 SDG NO.: BN082724

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.: BN082724

Client:

Analytical Method: SFAM_SVOASIM **DataFile:**

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	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.: BN082724 SAS No.: BN082724 SDG NO.: BN082724

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: BN082724

Lab Code: CHEM SAS No.: BN082724 SDG NO.: BN082724

Lab File ID: BN033629.D DFTPP Injection Date: 08/27/2024

Instrument ID: BNA_N DFTPP Injection Time: 10:32

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.1
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	37.3
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.8
197	Less than 2.0% of mass 198	0.2
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	27.4
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	12.2
442	Greater than 50% of mass 198	77.5
443	15.0 - 24.0% of mass 442	15 (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
SSTD0.1202	SSTD0.119	BN033630.D	08/27/2024	11:11
SSTD0.2203	SSTD0.220	BN033631.D	08/27/2024	11:48
SSTD0.4204	SSTD0.421	BN033632.D	08/27/2024	12:24
SSTD0.8205	SSTD0.822	BN033633.D	08/27/2024	13:00
SSTD1.6206	SSTD1.623	BN033634.D	08/27/2024	13:36
SSTD3.2207	SSTD3.224	BN033635.D	08/27/2024	14:12
SICV208	SSTDICV0.4	BN033636.D	08/27/2024	14:48