

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM092424 SAS No.: BM092424 SDG No.: BM092424

Instrument ID: BNA_M Calibration Date/Time: 9/24/2024 1:20:19

Lab File ID: BM047619.D Init. Calib. Date(s): _____

EPA Sample No.: SICV014 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.615	0.558	0.010	-9.318	40.0
1,4-Dioxane-d8	0.515	0.505	0.010	-1.955	40.0
Naphthalene	1.077	1.033	0.600	-4.0934	30.0
1-Methylnaphthalene	0.669	0.586	0.300	-12.4273	30.0
2-Methylnaphthalene	0.643	0.618	0.300	-3.9349	30.0
Acenaphthylene	1.954	1.838	0.900	-5.9109	30.0
Acenaphthene	1.358	1.270	0.500	-6.51	30.0
Fluorene	1.478	1.378	0.700	-6.7581	30.0
Pentachlorophenol	0.114	0.097	0.010	-14.9428	50.0
Phenanthrene	1.188	1.102	0.300	-7.2275	30.0
Anthracene	1.059	1.002	0.400	-5.3632	30.0
Fluoranthene	1.570	1.452	0.400	-7.5233	30.0
Pyrene	1.655	1.564	0.500	-5.5023	30.0
Benzo (a) anthracene	1.554	1.339	0.400	-13.8526	30.0
Chrysene	1.661	1.405	0.400	-15.3647	30.0
Benzo (b) fluoranthene	1.846	1.503	0.200	-18.5907	30.0
Benzo (k) fluoranthene	1.777	1.437	0.200	-19.1156	30.0
Benzo (a) pyrene	1.312	1.247	0.200	-4.9686	30.0
Indeno (1,2,3-cd) pyrene	2.132	1.801	0.200	-15.5129	30.0
Dibenzo (a,h) anthracene	1.626	1.379	0.200	-15.1838	30.0
Benzo (g,h,i) perylene	1.714	1.454	0.200	-15.1642	30.0
Fluoranthene-d10	1.135	1.050	0.400	-7.4945	30.0
2-Methylnaphthalene-d10	0.541	0.494	0.300	-8.6951	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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Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: BM092424

Client:

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

Total Concentration:



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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM092424 SAS No.: BM092424 SDG No.: BM092424
Instrument ID: _____ Calibration Date(s): 9/24/2024 : _____
Calibration Time(s): 16:37 _____

LAB FILE ID:		RRFAL1 = BM047613.D			RRFAL2 = BM047614.D		RRFAL3 = BM047615.D	
		RRFAL4 = BM047616.D			RRFAL5 = BM047617.D		RRFAL6 = BM047618.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.686	0.648	0.614	0.573	0.557	0.615	8.6
1,4-Dioxane-d8		0.520	0.543	0.524	0.494	0.496	0.515	4.0
Naphthalene	1.100	1.059	1.082	1.090	1.056		1.077	1.8
1-Methylnaphthalene	0.672	0.651	0.678	0.688	0.658		0.669	2.2
2-Methylnaphthalene	0.643	0.627	0.649	0.663	0.635		0.643	2.2
Acenaphthylene	1.961	1.915	2.018	1.979	1.897		1.954	2.5
Acenaphthene	1.380	1.335	1.403	1.370	1.305		1.358	2.8
Fluorene	1.459	1.443	1.540	1.508	1.438		1.478	3.0
Pentachlorophenol		0.124	0.110	0.110	0.108	0.117	0.114	5.9
Phenanthrene	1.249	1.177	1.163	1.196	1.156		1.188	3.1
Anthracene	1.088	1.030	1.033	1.088	1.056		1.059	2.7
Fluoranthene	1.613	1.532	1.545	1.614	1.547		1.570	2.5
Pyrene	1.723	1.603	1.646	1.695	1.611		1.655	3.2
Benzo(a)anthracene	1.842	1.546	1.473	1.482	1.429		1.554	10.7
Chrysene	2.123	1.718	1.552	1.505	1.406		1.661	17.0
Benzo(b)fluoranthene	2.591	1.955	1.621	1.579	1.486		1.846	24.5
Benzo(k)fluoranthene	2.342	1.835	1.640	1.597	1.470		1.777	19.2
Benzo(a)pyrene	1.481	1.293	1.270	1.284	1.231		1.312	7.4
Indeno(1,2,3-cd)pyrene	2.571	2.168	2.016	1.968	1.938		2.132	12.2
Dibenzo(a,h)anthracene	1.943	1.640	1.549	1.513	1.487		1.626	11.5
Benzo(g,h,i)perylene	2.077	1.761	1.632	1.560	1.542		1.714	12.9
Fluoranthene-d10	1.094	1.082	1.149	1.202	1.150		1.135	4.3
2-Methylnaphthalene-d10	0.547	0.529	0.542	0.556	0.531		0.541	2.1

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.: BM092424 SAS No.: BM092424 SDG NO.: BM092424

EPA Sample No.: SSTD0.4010 Date Analyzed: Sep 24 2024 12:00AM

Lab File ID: BM047615.D Time Analyzed: 20:19

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	7574	7.83	22985	10.62	10768	14.46
UPPER LIMIT	15148	8.33	45970	11.123	21536	14.96
LOWER LIMIT	3787	7.33	11492.5	10.123	5384	13.96
EPA SAMPLE NO.						
01 SICV014	8280	7.83	25131	10.62	12317	14.46

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.: BM092424 SAS No.: BM092424 SDG NO.: BM092424

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.: BM092424 SAS No.: BM092424 SDG NO.: BM092424

EPA Sample No.: SSTD0.4010 Date Analyzed: Sep 24 2024 12:00AM

Lab File ID: BM047615.D Time Analyzed: 20:19

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	22026	17.196	18126	21.362	19359	23.642
UPPER LIMIT	44052	17.696	36252	21.862	38718	24.142
LOWER LIMIT	11013	16.696	9063	20.862	9679.5	23.142
EPA SAMPLE NO.						
01 SICV014	23973	17.20	19867	21.36	20707	23.65

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.: BM092424 SAS No.: BM092424 SDG NO.: BM092424

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.: BM092424

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.

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM092424

SAS No.: BM092424 SDG NO.: BM092424

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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Fax : 908 789 8922

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: BM092424

Lab Code: CHEM

SAS No.: BM092424 SDG NO.: BM092424

Lab File ID: BM047612.D

DFTPP Injection Date: 09/24/2024

Instrument ID: BNA_M

DFTPP Injection Time: 13:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.6
68	Less than 2.0% of mass 69	0.6 (1.4) 1
69	Mass 69 relative abundance	45.6
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	56.3
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	6.8
275	10.0 - 60.0% of mass 198	22.8
365	Greater than 1% of mass 198	2.7
441	Present, but less than mass 443	8.1
442	Greater than 50% of mass 198	50.1
443	15.0 - 24.0% of mass 442	9.6 (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
SSTD0.1008	SSTD0.187	BM047613.D	09/24/2024	16:37
SSTD0.2009	SSTD0.288	BM047614.D	09/24/2024	17:18
SSTD0.4010	SSTD0.489	BM047615.D	09/24/2024	17:54
SSTD0.8011	SSTD0.890	BM047616.D	09/24/2024	18:31
SSTD1.6012	SSTD1.691	BM047617.D	09/24/2024	19:07
SSTD3.2013	SSTD3.292	BM047618.D	09/24/2024	19:43
SICV014	SSTDICV0.4	BM047619.D	09/24/2024	20:19