

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____
 Lab Code: CHEM Case No.: BM080724 SAS No.: BM080724 SDG No.: BM080724
 Instrument ID: BNA_M Calibration Date/Time: 8/8/2024 12:04:30
 Lab File ID: BM047076.D Init. Calib. Date(s): _____
 EPA Sample No.: SICV007 Init. Calib. Time(s): _____
 GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.451	0.434	0.010	-3.6871	40.0
1,4-Dioxane-d8	0.403	0.409	0.010	1.4812	40.0
Naphthalene	1.045	1.067	0.600	2.1069	30.0
1-Methylnaphthalene	0.713	0.670	0.300	-6.1055	30.0
2-Methylnaphthalene	0.682	0.710	0.300	4.1191	30.0
Acenaphthylene	1.855	1.910	0.900	2.95	30.0
Acenaphthene	1.263	1.259	0.500	-0.3541	30.0
Fluorene	1.470	1.492	0.700	1.5084	30.0
Pentachlorophenol	0.127	0.119	0.010	-6.6738	50.0
Phenanthrene	1.152	1.153	0.300	0.0589	30.0
Anthracene	1.028	1.072	0.400	4.2232	30.0
Fluoranthene	1.622	1.625	0.400	0.1983	30.0
Pyrene	1.697	1.733	0.500	2.1659	30.0
Benzo (a) anthracene	1.469	1.427	0.400	-2.8525	30.0
Chrysene	1.558	1.489	0.400	-4.4661	30.0
Benzo (b) fluoranthene	1.589	1.479	0.200	-6.9315	30.0
Benzo (k) fluoranthene	1.661	1.594	0.200	-4.0261	30.0
Benzo (a) pyrene	1.255	1.352	0.200	7.6862	30.0
Indeno (1,2,3-cd) pyrene	1.908	1.840	0.200	-3.5619	30.0
Dibenzo (a,h) anthracene	1.484	1.423	0.200	-4.1067	30.0
Benzo (g,h,i) perylene	1.580	1.510	0.200	-4.4158	30.0
Fluoranthene-d10	1.156	1.180	0.400	2.1204	30.0
2-Methylnaphthalene-d10	0.597	0.588	0.300	-1.513	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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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: BM080724

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.: BM080724 SAS No.: BM080724 SDG No.: BM080724
Instrument ID: _____ Calibration Date(s): 8/8/2024 1: _____
Calibration Time(s): 00:49 _____

LAB FILE ID:		RRFAL1 = BM047070.D			RRFAL2 = BM047071.D		RRFAL3 = BM047072.D	
		RRFAL4 = BM047073.D			RRFAL5 = BM047074.D		RRFAL6 = BM047075.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.471	0.464	0.465	0.429	0.425	0.451	4.9
1,4-Dioxane-d8		0.403	0.417	0.415	0.393	0.388	0.403	3.2
Naphthalene	1.080	1.042	1.018	1.066	1.019		1.045	2.7
1-Methylnaphthalene	0.732	0.701	0.702	0.729	0.701		0.713	2.2
2-Methylnaphthalene	0.692	0.672	0.674	0.698	0.674		0.682	1.8
Acenaphthylene	1.911	1.824	1.866	1.872	1.804		1.855	2.3
Acenaphthene	1.294	1.245	1.271	1.287	1.218		1.263	2.5
Fluorene	1.487	1.430	1.495	1.509	1.430		1.470	2.6
Pentachlorophenol		0.143	0.120	0.125	0.118	0.131	0.127	7.7
Phenanthrene	1.216	1.151	1.095	1.170	1.127		1.152	4.0
Anthracene	1.037	1.010	0.979	1.074	1.042		1.028	3.5
Fluoranthene	1.774	1.622	1.545	1.612	1.555		1.622	5.7
Pyrene	1.850	1.713	1.616	1.681	1.623		1.697	5.6
Benzo(a)anthracene	1.705	1.494	1.361	1.413	1.371		1.469	9.7
Chrysene	1.957	1.642	1.436	1.434	1.323		1.558	16.1
Benzo(b)fluoranthene	1.874	1.646	1.488	1.502	1.436		1.589	11.1
Benzo(k)fluoranthene	1.999	1.716	1.527	1.588	1.476		1.661	12.6
Benzo(a)pyrene	1.359	1.295	1.195	1.237	1.190		1.255	5.7
Indeno(1,2,3-cd)pyrene	2.265	1.933	1.755	1.845	1.740		1.908	11.2
Dibenzo(a,h)anthracene	1.770	1.506	1.366	1.430	1.345		1.484	11.6
Benzo(g,h,i)perylene	1.894	1.613	1.454	1.521	1.418		1.580	12.0
Fluoranthene-d10	1.168	1.149	1.122	1.185	1.156		1.156	2.0
2-Methylnaphthalene-d10	0.610	0.585	0.587	0.614	0.589		0.597	2.3

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM080724 SAS No.: BM080724 SDG NO.: BM080724

EPA Sample No.: SSTD0.4003 Date Analyzed: Aug 8 2024 12:00AM

Lab File ID: BM047072.D Time Analyzed: 04:30

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	6794	7.397	21516	10.15	12285	14.05
UPPER LIMIT	13588	7.897	43032	10.651	24570	14.55
LOWER LIMIT	3397	6.897	10758	9.651	6142.5	13.55
EPA SAMPLE NO.						
01 SICV007	7465	7.40	23478	10.15	14027	14.05

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.: BM080724 SAS No.: BM080724 SDG NO.: BM080724

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.: BM080724 SAS No.: BM080724 SDG NO.: BM080724

EPA Sample No.: SSTD0.4003 Date Analyzed: Aug 8 2024 12:00AM

Lab File ID: BM047072.D Time Analyzed: 04:30

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	25688	16.809	19720	21.024	18391	23.128
UPPER LIMIT	51376	17.309	39440	21.524	36782	23.628
LOWER LIMIT	12844	16.309	9860	20.524	9195.5	22.628
EPA SAMPLE NO.						
01 SICV007	27857	16.81	21403	21.02	20528	23.13

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.: BM080724 SAS No.: BM080724 SDG NO.: BM080724

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.: BM080724

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		

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SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

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Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM080724

SAS No.: BM080724 SDG NO.: BM080724

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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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BM080724

Client: _____

Analytical Method: _____

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

Client Sample ID:

DataFile:



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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: BM080724

Lab Code: CHEM

SAS No.: BM080724

SDG NO.: BM080724

Lab File ID: BM047069.D

DFTPP Injection Date: 08/08/2024

Instrument ID: BNA_M

DFTPP Injection Time: 00:09

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33
68	Less than 2.0% of mass 69	0.6 (1.4) 1
69	Mass 69 relative abundance	41.9
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	48
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	6.9
275	10.0 - 60.0% of mass 198	27.6
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	10.1
442	Greater than 50% of mass 198	65.6
443	15.0 - 24.0% of mass 442	12.4 (18.9) 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
SSTD0.1001	SSTD0.181	BM047070.D	08/08/2024	00:49
SSTD0.2002	SSTD0.282	BM047071.D	08/08/2024	01:25
SSTD0.4003	SSTD0.483	BM047072.D	08/08/2024	02:02
SSTD0.8004	SSTD0.884	BM047073.D	08/08/2024	02:39
SSTD1.6005	SSTD1.685	BM047074.D	08/08/2024	03:16
SSTD3.2006	SSTD3.286	BM047075.D	08/08/2024	03:53
SICV007	SSTDICV0.4	BM047076.D	08/08/2024	04:30