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LAB CHRONICLE

OrderID:	P5382	**OrderDate:**	12/23/2024 11:39:00 AM
Client:	Kleinfelder	**Project:**	Comegys School
Contact:	Mark Warchol	**Location:**	N31,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5382-01	**COMP-1**	**SOIL**			**12/20/24**			**12/23/24**
			SVOCMS Group1	8270E		12/26/24	12/27/24	
P5382-02	**COMP-2**	**SOIL**			**12/20/24**			**12/23/24**
			SVOCMS Group1	8270E		12/26/24	12/27/24	
P5382-03	**COMP-3**	**SOIL**			**12/20/24**			**12/23/24**
			SVOCMS Group1	8270E		12/26/24	12/27/24	

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Hit Summary Sheet
SW-846

SDG No.: P5382

Client: Kleinfelder

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : COMP-1								
P5382-01	COMP-1	SOIL	Phenanthrene	270.000	Q	100	200	ug/Kg
P5382-01	COMP-1	SOIL	Pyrene	270.000		100	200	ug/Kg
P5382-01	COMP-1	SOIL	Benzo(a)anthracene	190.000	J	97.3	200	ug/Kg
P5382-01	COMP-1	SOIL	Chrysene	140.000	J	95.8	200	ug/Kg
P5382-01	COMP-1	SOIL	Benzo(b)fluoranthene	170.000	J	97.8	200	ug/Kg
P5382-01	COMP-1	SOIL	Benzo(a)pyrene	180.000	JQ	110	200	ug/Kg
			Total Svoc :	**1,220.00**				
			Total Concentration:	**1,220.00**				
Client ID : COMP-2								
P5382-02	COMP-2	SOIL	Phenanthrene	140.000	JQ	100	210	ug/Kg
P5382-02	COMP-2	SOIL	Pyrene	170.000	J	100	210	ug/Kg
P5382-02	COMP-2	SOIL	Benzo(a)anthracene	120.000	J	97.5	210	ug/Kg
P5382-02	COMP-2	SOIL	Chrysene	100.000	J	96.1	210	ug/Kg
P5382-02	COMP-2	SOIL	Benzo(b)fluoranthene	130.000	J	98	210	ug/Kg
			Total Svoc :	**660.00**				
			Total Concentration:	**660.00**				

SAMPLE DATA

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Report of Analysis

Client:	Kleinfelder			Date Collected:	12/20/24
Project:	Comegys School			Date Received:	12/23/24
Client Sample ID:	COMP-1			SDG No.:	P5382
Lab Sample ID:	P5382-01			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	82.8
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141004.D	1	12/26/24 09:10	12/27/24 18:39	PB165845

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	99.6	U	99.6	200	ug/Kg
86-73-7	Fluorene	100	U	100	200	ug/Kg
85-01-8	Phenanthrene	270	Q	100	200	ug/Kg
120-12-7	Anthracene	100	UQ	100	200	ug/Kg
129-00-0	Pyrene	270		100	200	ug/Kg
56-55-3	Benzo(a)anthracene	190	J	97.3	200	ug/Kg
218-01-9	Chrysene	140	J	95.8	200	ug/Kg
205-99-2	Benzo(b)fluoranthene	170	J	97.8	200	ug/Kg
50-32-8	Benzo(a)pyrene	180	JQ	110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	94.1	UQ	94.1	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	96.5	U	96.5	200	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	95.9		18 - 107	96%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.2		20 - 109	78%	SPK: 100
1718-51-0	Terphenyl-d14	80.7		10 - 105	81%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	246000	6.822			
1146-65-2	Naphthalene-d8	987000	8.104			
15067-26-2	Acenaphthene-d10	533000	9.857			
1517-22-2	Phenanthrene-d10	883000	11.339			
1719-03-5	Chrysene-d12	539000	13.974			
1520-96-3	Perylene-d12	547000	15.433			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	12/20/24
Project:	Comegys School			Date Received:	12/23/24
Client Sample ID:	COMP-1			SDG No.:	P5382
Lab Sample ID:	P5382-01			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	82.8
Sample Wt/Vol:	30.06	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141004.D	1	12/26/24 09:10	12/27/24 18:39	PB165845

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Kleinfelder			Date Collected:	12/20/24
Project:	Comegys School			Date Received:	12/23/24
Client Sample ID:	COMP-2			SDG No.:	P5382
Lab Sample ID:	P5382-02			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	82.5
Sample Wt/Vol:	30.09	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141007.D	1	12/26/24 09:10	12/27/24 19:58	PB165845

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	99.8	U	99.8	210	ug/Kg
86-73-7	Fluorene	100	U	100	210	ug/Kg
85-01-8	Phenanthrene	140	JQ	100	210	ug/Kg
120-12-7	Anthracene	100	UQ	100	210	ug/Kg
129-00-0	Pyrene	170	J	100	210	ug/Kg
56-55-3	Benzo(a)anthracene	120	J	97.5	210	ug/Kg
218-01-9	Chrysene	100	J	96.1	210	ug/Kg
205-99-2	Benzo(b)fluoranthene	130	J	98.0	210	ug/Kg
50-32-8	Benzo(a)pyrene	110	UQ	110	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	94.4	UQ	94.4	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	96.8	U	96.8	210	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	83.3		18 - 107	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.9		20 - 109	69%	SPK: 100
1718-51-0	Terphenyl-d14	63.3		10 - 105	63%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	252000	6.822			
1146-65-2	Naphthalene-d8	997000	8.104			
15067-26-2	Acenaphthene-d10	527000	9.857			
1517-22-2	Phenanthrene-d10	805000	11.339			
1719-03-5	Chrysene-d12	503000	13.974			
1520-96-3	Perylene-d12	506000	15.433			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	12/20/24
Project:	Comegys School			Date Received:	12/23/24
Client Sample ID:	COMP-2			SDG No.:	P5382
Lab Sample ID:	P5382-02			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	82.5
Sample Wt/Vol:	30.09	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141007.D	1	12/26/24 09:10	12/27/24 19:58	PB165845

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Kleinfelder			Date Collected:	12/20/24
Project:	Comegys School			Date Received:	12/23/24
Client Sample ID:	COMP-3			SDG No.:	P5382
Lab Sample ID:	P5382-03			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	82.8
Sample Wt/Vol:	30.04	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141008.D	1	12/26/24 09:10	12/27/24 20:24	PB165845

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	99.6	U	99.6	210	ug/Kg
86-73-7	Fluorene	100	U	100	210	ug/Kg
85-01-8	Phenanthrene	100	UQ	100	210	ug/Kg
120-12-7	Anthracene	100	UQ	100	210	ug/Kg
129-00-0	Pyrene	100	U	100	210	ug/Kg
56-55-3	Benzo(a)anthracene	97.3	U	97.3	210	ug/Kg
218-01-9	Chrysene	95.9	U	95.9	210	ug/Kg
205-99-2	Benzo(b)fluoranthene	97.8	U	97.8	210	ug/Kg
50-32-8	Benzo(a)pyrene	110	UQ	110	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	94.2	UQ	94.2	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	96.6	U	96.6	210	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	77.2		18 - 107	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	67.7		20 - 109	68%	SPK: 100
1718-51-0	Terphenyl-d14	55.3		10 - 105	55%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	261000	6.822			
1146-65-2	Naphthalene-d8	1030000	8.104			
15067-26-2	Acenaphthene-d10	517000	9.857			
1517-22-2	Phenanthrene-d10	712000	11.339			
1719-03-5	Chrysene-d12	541000	13.974			
1520-96-3	Perylene-d12	441000	15.427			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	12/20/24
Project:	Comegys School			Date Received:	12/23/24
Client Sample ID:	COMP-3			SDG No.:	P5382
Lab Sample ID:	P5382-03			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	82.8
Sample Wt/Vol:	30.04	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141008.D	1	12/26/24 09:10	12/27/24 20:24	PB165845

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P5382

Client: Kleinfelder

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P5382-01	COMP-1	Nitrobenzene-d5	100	95.9	96		18	107
		2-Fluorobiphenyl	100	78.2	78		20	109
		Terphenyl-d14	100	80.7	81		10	105
P5382-01MS	COMP-1MS	Nitrobenzene-d5	100	73.1	73		18	107
		2-Fluorobiphenyl	100	61.9	62		20	109
		Terphenyl-d14	100	62.7	63		10	105
P5382-01MSD	COMP-1MSD	Nitrobenzene-d5	100	84.1	84		18	107
		2-Fluorobiphenyl	100	70.6	71		20	109
		Terphenyl-d14	100	70.2	70		10	105
P5382-02	COMP-2	Nitrobenzene-d5	100	83.3	83		18	107
		2-Fluorobiphenyl	100	68.9	69		20	109
		Terphenyl-d14	100	63.3	63		10	105
P5382-03	COMP-3	Nitrobenzene-d5	100	77.2	77		18	107
		2-Fluorobiphenyl	100	67.7	68		20	109
		Terphenyl-d14	100	55.3	55		10	105
PB165845BL	PB165845BL	Nitrobenzene-d5	100	116	116	*	18	107
		2-Fluorobiphenyl	100	94.9	95		20	109
		Terphenyl-d14	100	90.3	90		10	105
PB165845BS	PB165845BS	Nitrobenzene-d5	100	122	122	*	18	107
		2-Fluorobiphenyl	100	101	101		20	109
		Terphenyl-d14	100	101	101		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5382

Client: Kleinfelder

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P5382-01MS		**Client Sample ID: COMP-1MS**						**DataFile: BF141005.D**			
Naphthalene	2000	0	1700	ug/Kg	85				72	110	
Fluorene	2000	0	1700	ug/Kg	85				68	116	
Phenanthrene	2000	270	2000	ug/Kg	87				52	128	
Anthracene	2000	0	2000	ug/Kg	100				62	124	
Pyrene	2000	270	1800	ug/Kg	77				26	142	
Benzo(a)anthracene	2000	190	1800	ug/Kg	81				71	114	
Chrysene	2000	140	1900	ug/Kg	88				57	121	
Benzo(b)fluoranthene	2000	170	1800	ug/Kg	82				67	121	
Benzo(a)pyrene	2000	180	2000	ug/Kg	91				70	142	
Indeno(1,2,3-cd)pyrene	2000	0	1600	ug/Kg	80				40	129	
Benzo(g,h,i)perylene	2000	0	1400	ug/Kg	70				24	125	

Alliance TECHNICAL GROUP
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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5382

Client: Kleinfelder

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P5382-01MSD		**Client Sample ID: COMP-1MSD**						**DataFile: BF141006.D**			
Naphthalene	2000	0	1900	ug/Kg	95		11		72	110	20
Fluorene	2000	0	1900	ug/Kg	95		11		68	116	20
Phenanthrene	2000	270	2300	ug/Kg	102		16		52	128	20
Anthracene	2000	0	2200	ug/Kg	110		10		62	124	20
Pyrene	2000	270	2100	ug/Kg	92		18		26	142	20
Benzo(a)anthracene	2000	190	2100	ug/Kg	96		17		71	114	20
Chrysene	2000	140	2200	ug/Kg	103		16		57	121	20
Benzo(b)fluoranthene	2000	170	2100	ug/Kg	97		17		67	121	20
Benzo(a)pyrene	2000	180	2300	ug/Kg	106		15		70	142	20
Indeno(1,2,3-cd)pyrene	2000	0	1800	ug/Kg	90		12		40	129	20
Benzo(g,h,i)perylene	2000	0	1600	ug/Kg	80		13		24	125	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5382

Client: Kleinfelder

Analytical Method: 8270E **DataFile:** BF140992.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165845BS	Naphthalene	1700	1600	ug/Kg	94				62	100	
	Fluorene	1700	1600	ug/Kg	94				61	101	
	Phenanthrene	1700	1800	ug/Kg	106		*		59	103	
	Anthracene	1700	1800	ug/Kg	106		*		61	105	
	Pyrene	1700	1600	ug/Kg	94				59	103	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				60	102	
	Chrysene	1700	1700	ug/Kg	100				59	101	
	Benzo(b)fluoranthene	1700	1600	ug/Kg	94				62	109	
	Benzo(a)pyrene	1700	1900	ug/Kg	112		*		63	103	
	Indeno(1,2,3-cd)pyrene	1700	1800	ug/Kg	106		*		63	101	
	Benzo(g,h,i)perylene	1700	1600	ug/Kg	94				70	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165845BL

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5382 SAS No.: P5382 SDG NO.: P5382

Lab File ID: BF140991.D Lab Sample ID: PB165845BL

Instrument ID: BNA_F Date Extracted: 12/26/2024

Matrix: (soil/water) SOIL Date Analyzed: 12/27/2024

Level: (low/med) LOW Time Analyzed: 12:41

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
COMP-1MSD	P5382-01MSD	BF141006.D	12/27/2024
COMP-2	P5382-02	BF141007.D	12/27/2024
COMP-3	P5382-03	BF141008.D	12/27/2024
PB165845BS	PB165845BS	BF140992.D	12/27/2024
COMP-1	P5382-01	BF141004.D	12/27/2024
COMP-1MS	P5382-01MS	BF141005.D	12/27/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM SAS No.: P5382 SDG NO.: P5382

Lab File ID: BF140969.D DFTPP Injection Date: 12/26/2024

Instrument ID: BNA_F DFTPP Injection Time: 15:57

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.4
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	35.5
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	47.8
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	6.6
275	10.0 - 60.0% of mass 198	27.2
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	14.3
442	Greater than 50% of mass 198	90.5
443	15.0 - 24.0% of mass 442	17.8 (19.7) 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
SSTDICC2.5	SSTDICC2.5	BF140970.D	12/26/2024	16:23
SSTDICC005	SSTDICC005	BF140971.D	12/26/2024	16:49
SSTDICC010	SSTDICC010	BF140972.D	12/26/2024	17:15
SSTDICC020	SSTDICC020	BF140973.D	12/26/2024	17:41
SSTDICCC040	SSTDICCC040	BF140974.D	12/26/2024	18:06
SSTDICC050	SSTDICC050	BF140975.D	12/26/2024	18:33
SSTDICC060	SSTDICC060	BF140976.D	12/26/2024	18:59
SSTDICC080	SSTDICC080	BF140977.D	12/26/2024	19:25

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM SAS No.: P5382 SDG NO.: P5382

Lab File ID: BF140980.D DFTPP Injection Date: 12/27/2024

Instrument ID: BNA_F DFTPP Injection Time: 07:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.9
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	35.9
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	47.8
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	6.7
275	10.0 - 60.0% of mass 198	28.1
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	14.8
442	Greater than 50% of mass 198	94.4
443	15.0 - 24.0% of mass 442	18.3 (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
SSTDCCC040	SSTDCCC040	BF140981.D	12/27/2024	08:19
PB165845BL	PB165845BL	BF140991.D	12/27/2024	12:41
PB165845BS	PB165845BS	BF140992.D	12/27/2024	13:07

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM SAS No.: P5382 SDG NO.: P5382

Lab File ID: BF140993.D DFTPP Injection Date: 12/27/2024

Instrument ID: BNA_F DFTPP Injection Time: 13:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.9
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	37.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	49
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	6.7
275	10.0 - 60.0% of mass 198	27.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	13.2
442	Greater than 50% of mass 198	84.7
443	15.0 - 24.0% of mass 442	16.2 (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
SSTDCCC040	SSTDCCC040	BF140994.D	12/27/2024	13:59
COMP-1	P5382-01	BF141004.D	12/27/2024	18:39
COMP-1MS	P5382-01MS	BF141005.D	12/27/2024	19:05
COMP-1MSD	P5382-01MSD	BF141006.D	12/27/2024	19:32
COMP-2	P5382-02	BF141007.D	12/27/2024	19:58
COMP-3	P5382-03	BF141008.D	12/27/2024	20:24

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5382 SAS No.: P5382 SDG NO.: P5382

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/27/2024

Lab File ID: BF140981.D Time Analyzed: 08:19

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	281239	6.828	1080100	8.11	567563	9.86
	UPPER LIMIT	562478	7.328	2160200	8.61	1135130	10.363
	LOWER LIMIT	140620	6.328	540050	7.61	283782	9.363
	EPA SAMPLE NO.						
01	PB165845BL	256406	6.83	1039760	8.10	551936	9.86
02	PB165845BS	237476	6.83	956660	8.11	508461	9.86

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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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5382 SAS No.: P5382 SDG NO.: P5382

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/27/2024

Lab File ID: BF140981.D Time Analyzed: 08:19

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1005110	11.345	657302	13.986	544134	15.439
	UPPER LIMIT	2010220	11.845	1314600	14.486	1088270	15.939
	LOWER LIMIT	502555	10.845	328651	13.486	272067	14.939
	EPA SAMPLE NO.						
01	PB165845BL	932287	11.35	692897	13.98	548204	15.44
02	PB165845BS	852780	11.35	597621	13.99	491502	15.44

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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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5382 SAS No.: P5382 SDG NO.: P5382

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/27/2024

Lab File ID: BF140994.D Time Analyzed: 13:59

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	288140	6.828	1113820	8.11	585823	9.86
	UPPER LIMIT	576280	7.328	2227640	8.61	1171650	10.363
	LOWER LIMIT	144070	6.328	556910	7.61	292912	9.363
	EPA SAMPLE NO.						
01	COMP-3	261409	6.82	1032360	8.10	517375	9.86
02	COMP-1	245562	6.82	986783	8.10	533453	9.86
03	COMP-1MS	274904	6.83	1107160	8.11	588572	9.86
04	COMP-1MSD	242878	6.82	970690	8.11	512580	9.86
05	COMP-2	251588	6.82	996554	8.10	526548	9.86

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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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5382 SAS No.: P5382 SDG NO.: P5382

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/27/2024

Lab File ID: BF140994.D Time Analyzed: 13:59

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1000380	11.345	654182	13.986	576625	15.433
	UPPER LIMIT	2000760	11.845	1308360	14.486	1153250	15.933
	LOWER LIMIT	500190	10.845	327091	13.486	288313	14.933
	EPA SAMPLE NO.						
01	COMP-3	711998	11.34	540701	13.97	441127	15.43
02	COMP-1	882749	11.34	539303	13.97	547496	15.43
03	COMP-1MS	918746	11.35	544083	13.98	580377	15.43
04	COMP-1MSD	801566	11.35	483090	13.98	500993	15.43
05	COMP-2	804705	11.34	502976	13.97	505972	15.43

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.

QC SAMPLE DATA

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Report of Analysis

Client:	Kleinfelder			Date Collected:	
Project:	Comegys School			Date Received:	
Client Sample ID:	PB165845BL			SDG No.:	P5382
Lab Sample ID:	PB165845BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140991.D	1	12/26/24 09:10	12/27/24 12:41	PB165845

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	82.6	U	82.6	170	ug/Kg
86-73-7	Fluorene	85.5	U	85.5	170	ug/Kg
85-01-8	Phenanthrene	84.0	U	84.0	170	ug/Kg
120-12-7	Anthracene	84.4	U	84.4	170	ug/Kg
129-00-0	Pyrene	83.0	U	83.0	170	ug/Kg
56-55-3	Benzo(a)anthracene	80.7	U	80.7	170	ug/Kg
218-01-9	Chrysene	79.5	U	79.5	170	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.1	U	81.1	170	ug/Kg
50-32-8	Benzo(a)pyrene	93.0	U	93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.1	U	78.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	170	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	116	*	18 - 107	116%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.9		20 - 109	95%	SPK: 100
1718-51-0	Terphenyl-d14	90.3		10 - 105	90%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	256000	6.828			
1146-65-2	Naphthalene-d8	1040000	8.104			
15067-26-2	Acenaphthene-d10	552000	9.857			
1517-22-2	Phenanthrene-d10	932000	11.345			
1719-03-5	Chrysene-d12	693000	13.98			
1520-96-3	Perylene-d12	548000	15.439			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	
Project:	Comegys School			Date Received:	
Client Sample ID:	PB165845BL			SDG No.:	P5382
Lab Sample ID:	PB165845BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140991.D	1	12/26/24 09:10	12/27/24 12:41	PB165845

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Kleinfelder			Date Collected:	
Project:	Comegys School			Date Received:	
Client Sample ID:	PB165845BS			SDG No.:	P5382
Lab Sample ID:	PB165845BS			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140992.D	1	12/26/24 09:10	12/27/24 13:07	PB165845

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	1600		82.5	170	ug/Kg
86-73-7	Fluorene	1600		85.4	170	ug/Kg
85-01-8	Phenanthrene	1800		83.9	170	ug/Kg
120-12-7	Anthracene	1800		84.3	170	ug/Kg
129-00-0	Pyrene	1600		82.9	170	ug/Kg
56-55-3	Benzo(a)anthracene	1600		80.6	170	ug/Kg
218-01-9	Chrysene	1700		79.4	170	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		81.0	170	ug/Kg
50-32-8	Benzo(a)pyrene	1900		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		78.0	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		80.0	170	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	122	*	18 - 107	122%	SPK: 100
321-60-8	2-Fluorobiphenyl	101		20 - 109	101%	SPK: 100
1718-51-0	Terphenyl-d14	101		10 - 105	101%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	237000	6.828			
1146-65-2	Naphthalene-d8	957000	8.11			
15067-26-2	Acenaphthene-d10	508000	9.863			
1517-22-2	Phenanthrene-d10	853000	11.345			
1719-03-5	Chrysene-d12	598000	13.986			
1520-96-3	Perylene-d12	492000	15.439			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	
Project:	Comegys School			Date Received:	
Client Sample ID:	PB165845BS			SDG No.:	P5382
Lab Sample ID:	PB165845BS			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140992.D	1	12/26/24 09:10	12/27/24 13:07	PB165845

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/20/24
Project:	Comegys School	Date Received:	12/23/24
Client Sample ID:	COMP-1MS	SDG No.:	P5382
Lab Sample ID:	P5382-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.8
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141005.D	1	12/26/24 09:10	12/27/24 19:05	PB165845

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	1700		99.7	210	ug/Kg
86-73-7	Fluorene	1700		100	210	ug/Kg
85-01-8	Phenanthrene	2000		100	210	ug/Kg
120-12-7	Anthracene	2000		100	210	ug/Kg
129-00-0	Pyrene	1800		100	210	ug/Kg
56-55-3	Benzo(a)anthracene	1800		97.4	210	ug/Kg
218-01-9	Chrysene	1900		96.0	210	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		97.9	210	ug/Kg
50-32-8	Benzo(a)pyrene	2000		110	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1600		94.3	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1400		96.7	210	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	73.1		18 - 107	73%	SPK: 100
321-60-8	2-Fluorobiphenyl	61.9		20 - 109	62%	SPK: 100
1718-51-0	Terphenyl-d14	62.7		10 - 105	63%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	275000	6.828			
1146-65-2	Naphthalene-d8	1110000	8.11			
15067-26-2	Acenaphthene-d10	589000	9.857			
1517-22-2	Phenanthrene-d10	919000	11.345			
1719-03-5	Chrysene-d12	544000	13.98			
1520-96-3	Perylene-d12	580000	15.433			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	12/20/24
Project:	Comegys School			Date Received:	12/23/24
Client Sample ID:	COMP-1MS			SDG No.:	P5382
Lab Sample ID:	P5382-01MS			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	82.8
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141005.D	1	12/26/24 09:10	12/27/24 19:05	PB165845

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/20/24
Project:	Comegys School	Date Received:	12/23/24
Client Sample ID:	COMP-1MSD	SDG No.:	P5382
Lab Sample ID:	P5382-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.8
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141006.D	1	12/26/24 09:10	12/27/24 19:32	PB165845

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	1900		99.6	200	ug/Kg
86-73-7	Fluorene	1900		100	200	ug/Kg
85-01-8	Phenanthrene	2300		100	200	ug/Kg
120-12-7	Anthracene	2200		100	200	ug/Kg
129-00-0	Pyrene	2100		100	200	ug/Kg
56-55-3	Benzo(a)anthracene	2100		97.3	200	ug/Kg
218-01-9	Chrysene	2200		95.9	200	ug/Kg
205-99-2	Benzo(b)fluoranthene	2100		97.8	200	ug/Kg
50-32-8	Benzo(a)pyrene	2300		110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		94.2	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		96.6	200	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	84.1		18 - 107	84%	SPK: 100
321-60-8	2-Fluorobiphenyl	70.6		20 - 109	71%	SPK: 100
1718-51-0	Terphenyl-d14	70.2		10 - 105	70%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	243000	6.822			
1146-65-2	Naphthalene-d8	971000	8.11			
15067-26-2	Acenaphthene-d10	513000	9.857			
1517-22-2	Phenanthrene-d10	802000	11.345			
1719-03-5	Chrysene-d12	483000	13.98			
1520-96-3	Perylene-d12	501000	15.433			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	12/20/24
Project:	Comegys School			Date Received:	12/23/24
Client Sample ID:	COMP-1MSD			SDG No.:	P5382
Lab Sample ID:	P5382-01MSD			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	82.8
Sample Wt/Vol:	30.05	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141006.D	1	12/26/24 09:10	12/27/24 19:32	PB165845

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF122624.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Dec 27 00:31:16 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140970.D 5 =BF140971.D 10 =BF140972.D 20 =BF140973.D 40 =BF140974.D 50 =BF140975.D 60 =BF140976.D 80 =BF140977.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.630	0.621	0.624	0.597	0.587	0.588	0.559	0.601	4.26
3)		Pyridine		1.621	1.563	1.581	1.437	1.394	1.372	1.308	1.468	8.18
4)		n-Nitrosodimet...		0.755	0.738	0.778	0.745	0.742	0.742	0.707	0.744	2.86
5)	S	2-Fluorophenol		1.502	1.422	1.423	1.293	1.258	1.233	1.155	1.327	9.39
6)		Aniline		1.709	1.702	1.732	1.615	1.480	1.306	1.126	1.524	15.28
7)	S	Phenol-d6		1.910	1.839	1.811	1.667	1.625	1.613	1.500	1.709	8.60
8)		2-Chlorophenol		1.556	1.484	1.483	1.386	1.337	1.319	1.227	1.399	8.21
9)		Benzaldehyde			1.193	1.089	0.861	0.792	0.768		0.941	20.16
10)	C	Phenol		1.956	1.880	1.866	1.744	1.683	1.694	1.549	1.767	7.97
11)		bis(2-Chloroet...		1.543	1.479	1.449	1.363	1.416	1.380	1.358	1.427	4.77
12)		1,3-Dichlorobe...		1.736	1.665	1.649	1.516	1.462	1.436	1.342	1.544	9.24
13)	C	1,4-Dichlorobe...		1.749	1.690	1.662	1.517	1.477	1.440	1.359	1.556	9.33
14)		1,2-Dichlorobe...		1.660	1.589	1.562	1.416	1.366	1.328	1.235	1.451	10.72
15)		Benzyl Alcohol		1.333	1.275	1.298	1.226	1.199	1.172	1.095	1.228	6.63
16)		2,2'-oxybis(1-...		2.420	2.317	2.313	2.112	2.048	2.016	1.882	2.158	9.04
17)		2-Methylphenol		1.250	1.208	1.226	1.151	1.125	1.109	1.066	1.162	5.83
18)		Hexachloroethane		0.587	0.573	0.584	0.544	0.538	0.537	0.508	0.553	5.30
19)	P	n-Nitroso-di-n...	1.133	1.140	1.127	1.079	1.008	0.988	0.983	0.918	1.047	8.01
20)		3+4-Methylphenols		1.644	1.624	1.598	1.452	1.387	1.354	1.235	1.471	10.61
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.575	0.535	0.521	0.470	0.459	0.454	0.421	0.491	11.02
23)	S	Nitrobenzene-d5		0.244	0.277	0.321	0.327	0.338	0.349	0.333	0.313	12.18
24)		Nitrobenzene		0.288	0.319	0.364	0.367	0.371	0.379	0.358	0.349	9.54
25)		Isophorone		0.744	0.706	0.714	0.657	0.654	0.659	0.628	0.680	6.09
26)	C	2-Nitrophenol		0.067	0.080	0.107	0.127	0.142	0.151	0.152	0.118	29.26
27)		2,4-Dimethylph...		0.268	0.255	0.260	0.241	0.241	0.244	0.230	0.249	5.21
28)		bis(2-Chloroet...		0.477	0.462	0.462	0.415	0.412	0.405	0.384	0.431	8.27
29)	C	2,4-Dichloroph...		0.286	0.289	0.295	0.278	0.281	0.281	0.264	0.282	3.41
30)		1,2,4-Trichlor...		0.354	0.335	0.337	0.312	0.304	0.306	0.286	0.319	7.39
31)		Naphthalene		1.209	1.154	1.142	1.020	0.989	0.971	0.892	1.054	10.96
32)		Benzoic acid			0.099	0.152	0.178	0.198	0.221	0.222	0.178	26.55
33)		4-Chloroaniline		0.414	0.398	0.404	0.367	0.368	0.367	0.351	0.381	6.20
34)	C	Hexachlorobuta...		0.208	0.199	0.196	0.182	0.181	0.182	0.170	0.188	7.08
35)		Caprolactam		0.098	0.095	0.100	0.094	0.094	0.095	0.094	0.096	2.37
36)	C	4-Chloro-3-met...		0.330	0.320	0.327	0.309	0.304	0.309	0.293	0.313	4.24
37)		2-Methylnaphth...		0.772	0.740	0.732	0.642	0.629	0.623	0.581	0.674	10.77
38)		1-Methylnaphth...		0.767	0.722	0.710	0.635	0.618	0.615	0.571	0.663	10.71

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF122624.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.602	0.586	0.586	0.535	0.527	0.526	0.491	0.550	7.46
41)	P	Hexachlorocycl...	0.165	0.176	0.189	0.187	0.189	0.190	0.180	0.182	5.03
42)	S	2,4,6-Tribromo...	0.177	0.189	0.203	0.196	0.198	0.199	0.199	0.194	4.59
43)	C	2,4,6-Trichlor...	0.354	0.356	0.398	0.364	0.356	0.381	0.354	0.366	4.59
44)		2,4,5-Trichlor...	0.371	0.389	0.377	0.380	0.386	0.365	0.355	0.375	3.15
45)	S	2-Fluorobiphenyl	1.546	1.452	1.378	1.175	1.129	1.102	1.006	1.255	16.12
46)		1,1'-Biphenyl	1.776	1.696	1.651	1.479	1.421	1.406	1.291	1.531	11.60
47)		2-Chloronaphth...	1.362	1.293	1.270	1.140	1.115	1.104	1.031	1.188	10.15
48)		2-Nitroaniline	0.139	0.182	0.248	0.288	0.306	0.329	0.325	0.259	28.48
49)		Acenaphthylene	1.934	1.869	1.824	1.654	1.619	1.590	1.477	1.710	9.80
50)		Dimethylphthalate	1.438	1.414	1.389	1.285	1.246	1.251	1.186	1.316	7.39
51)		2,6-Dinitrotol...	0.128	0.173	0.233	0.256	0.269	0.279	0.276	0.231	25.17
52)	C	Acenaphthene	1.289	1.240	1.229	1.119	1.096	1.091	1.027	1.156	8.36
53)		3-Nitroaniline	0.153	0.197	0.260	0.281	0.289	0.304	0.299	0.255	22.59
54)	P	2,4-Dinitrophenol		0.037	0.053	0.072	0.086	0.098	0.105	0.075	35.03
55)		Dibenzofuran	1.857	1.780	1.743	1.565	1.523	1.513	1.389	1.624	10.47
56)	P	4-Nitrophenol		0.166	0.213	0.229	0.237	0.253	0.251	0.225	14.45
57)		2,4-Dinitrotol...	0.136	0.187	0.265	0.310	0.326	0.347	0.340	0.273	30.14
58)		Fluorene	1.497	1.432	1.351	1.192	1.146	1.135	1.065	1.260	13.19
59)		2,3,4,6-Tetrac...	0.303	0.303	0.327	0.314	0.307	0.316	0.302	0.310	3.01
60)		Diethylphthalate	1.433	1.386	1.369	1.266	1.230	1.232	1.175	1.299	7.47
61)		4-Chlorophenyl...	0.700	0.673	0.653	0.579	0.560	0.557	0.521	0.606	11.29
62)		4-Nitroaniline	0.156	0.203	0.257	0.278	0.290	0.301	0.301	0.255	21.73
63)		Azobenzene	1.502	1.465	1.448	1.319	1.295	1.293	1.220	1.363	7.85
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.033	0.051	0.066	0.078	0.085	0.089	0.067	32.70
66)	c	n-Nitrosodiphe...	0.712	0.675	0.668	0.605	0.594	0.595	0.558	0.630	8.83
67)		4-Bromophenyl-...	0.235	0.229	0.228	0.213	0.212	0.199	0.197	0.216	7.03
68)		Hexachlorobenzene	0.261	0.247	0.249	0.232	0.231	0.229	0.220	0.238	5.96
69)		Atrazine	0.218	0.205	0.189	0.156	0.147	0.140		0.176	18.49
70)	C	Pentachlorophenol	0.122	0.137	0.154	0.155	0.156	0.161	0.154	0.148	9.37
71)		Phenanthrene	1.221	1.168	1.129	1.005	0.982	0.958	0.907	1.053	11.29
72)		Anthracene	1.187	1.136	1.113	0.991	0.963	0.945	0.884	1.031	11.01
73)		Carbazole	1.138	1.093	1.076	0.947	0.923	0.907	0.857	0.992	10.97
74)		Di-n-butylphth...	1.248	1.238	1.237	1.083	1.054	1.044	0.990	1.128	9.70
75)	C	Fluoranthene	1.333	1.274	1.242	1.091	1.050	1.035	0.966	1.142	12.26
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.422	0.333	0.437	0.415	0.438	0.512	0.402	0.423	12.62
78)		Pyrene	1.754	1.670	1.701	1.692	1.783	1.841	1.803	1.749	3.63
79)	S	Terphenyl-d14	1.275	1.181	1.188	1.141	1.194	1.240	1.209	1.204	3.59
80)		Butylbenzylpht...	0.532	0.571	0.640	0.656	0.684	0.710	0.679	0.639	10.11
81)		Benzo(a)anthra...	1.573	1.452	1.437	1.369	1.340	1.335	1.251	1.394	7.44
82)		3,3'-Dichlorob...	0.474	0.455	0.455	0.403	0.382	0.386	0.377	0.419	9.76
83)		Chrysene	1.341	1.330	1.327	1.208	1.194	1.207	1.190	1.257	5.68
84)		Bis(2-ethylhex...	0.822	0.842	0.859	0.820	0.827	0.837	0.793	0.828	2.49
85)	c	Di-n-octyl pht...	1.157	1.231	1.253	1.199	1.170	1.193	1.191	1.199	2.76

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF122624.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.050	1.009	1.224	1.311	1.397	1.438	1.391	1.260	13.71
88)		Benzo(b)fluora...	1.360	1.564	1.479	1.417	1.306	1.362	1.275	1.395	7.20
89)		Benzo(k)fluora...	1.165	1.121	1.301	1.065	1.073	1.016	0.911	1.093	11.17
90)	C	Benzo(a)pyrene	1.146	1.108	1.137	1.069	1.047	1.065	1.007	1.083	4.63
91)		Dibenzo(a,h)an...	0.847	0.829	0.992	1.070	1.127	1.165	1.120	1.021	13.38
92)		Benzo(g,h,i)pe...	0.825	0.811	1.023	1.126	1.194	1.243	1.194	1.059	16.91

(#) = Out of Range

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5382 SAS No.: P5382 SDG No.: P5382

Instrument ID: BNA_F Calibration Date/Time: 12/27/2024 08:19

Lab File ID: BF140981.D Init. Calib. Date(s): 12/26/2024 12/26/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 16:23 19:25

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.327	1.248		-6.0	
Phenol-d6	1.709	1.608		-5.9	
Nitrobenzene-d5	0.313	0.342		9.3	
Naphthalene	1.054	1.008		-4.4	
2-Fluorobiphenyl	1.255	1.200		-4.4	
Fluorene	1.260	1.205		-4.4	
2,4,6-Tribromophenol	0.194	0.203		4.6	
Phenanthrene	1.053	1.012		-3.9	
Anthracene	1.031	0.998		-3.2	
Pyrene	1.749	1.714		-2.0	
Terphenyl-d14	1.204	1.177		-2.2	
Benzo(a)anthracene	1.394	1.358		-2.6	
Chrysene	1.257	1.198		-4.7	
Benzo(b)fluoranthene	1.395	1.305		-6.5	
Benzo(a)pyrene	1.083	1.046		-3.4	20.0
Indeno(1,2,3-cd)pyrene	1.260	1.328		5.4	
Benzo(g,h,i)perylene	1.059	1.145		8.1	

All other compounds must meet a minimum RRF of 0.010.

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5382 SAS No.: P5382 SDG No.: P5382

Instrument ID: BNA_F Calibration Date/Time: 12/27/2024 13:59

Lab File ID: BF140994.D Init. Calib. Date(s): 12/26/2024 12/26/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 16:23 19:25

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.327	1.268		-4.4	
Phenol-d6	1.709	1.624		-5.0	
Nitrobenzene-d5	0.313	0.359		14.7	
Naphthalene	1.054	1.013		-3.9	
2-Fluorobiphenyl	1.255	1.178		-6.1	
Fluorene	1.260	1.191		-5.5	
2,4,6-Tribromophenol	0.194	0.205		5.7	
Phenanthrene	1.053	1.034		-1.8	
Anthracene	1.031	1.003		-2.7	
Pyrene	1.749	1.690		-3.4	
Terphenyl-d14	1.204	1.166		-3.2	
Benzo(a)anthracene	1.394	1.316		-5.6	
Chrysene	1.257	1.236		-1.7	
Benzo(b)fluoranthene	1.395	1.240		-11.1	
Benzo(a)pyrene	1.083	1.067		-1.5	20.0
Indeno(1,2,3-cd)pyrene	1.260	1.291		2.5	
Benzo(g,h,i)perylene	1.059	1.058		-0.1	

All other compounds must meet a minimum RRF of 0.010.