

LAB CHRONICLE

OrderID:	P4675	OrderDate:	11/1/2024 11:22:00 AM
Client:	Kleinfelder	Project:	Harrington School
Contact:	Mark Warchol	Location:	K41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4675-01	COMP-1	SOIL	VOCMS Group1	8260D	10/31/24		11/04/24	11/01/24
P4675-02	COMP-2	SOIL	VOCMS Group1	8260D	10/31/24		11/04/24	11/01/24
P4675-03	COMP-3	SOIL	VOCMS Group1	8260D	10/31/24		11/04/24	11/01/24
P4675-04	COMP-4	SOIL	VOCMS Group1	8260D	10/31/24		11/04/24	11/01/24
P4675-05	COMP-5	SOIL	VOCMS Group1	8260D	10/31/24		11/04/24	11/01/24
P4675-06	COMP-6	SOIL	VOCMS Group1	8260D	10/31/24		11/04/24	11/01/24



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P4675
Client: Kleinfelder

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:				0				
Total Voc :								
Total Concentration:								



SAMPLE DATA

Report of Analysis

Client:	Kleinfelder	Date Collected:	10/31/24
Project:	Harrington School	Date Received:	11/01/24
Client Sample ID:	COMP-1	SDG No.:	P4675
Lab Sample ID:	P4675-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	77.9
Sample Wt/Vol:	4.12 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020141.D	1		11/04/24 14:36	VY110424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.95	U	0.95	7.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.20	U	1.20	7.80	ug/Kg
71-43-2	Benzene	1.10	U	1.10	7.80	ug/Kg
79-01-6	Trichloroethene	1.20	U	1.20	7.80	ug/Kg
108-88-3	Toluene	1.00	U	1.00	7.80	ug/Kg
100-41-4	Ethyl Benzene	0.97	U	0.97	7.80	ug/Kg
1330-20-7	Total Xylenes	3.20	U	3.20	23.4	ug/Kg
98-82-8	Isopropylbenzene	1.00	U	1.00	7.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	58.8		50 - 163	118%	SPK: 50
1868-53-7	Dibromofluoromethane	53.5		54 - 147	107%	SPK: 50
2037-26-5	Toluene-d8	49.4		58 - 134	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.0		29 - 146	92%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	172000	7.713			
540-36-3	1,4-Difluorobenzene	355000	8.616			
3114-55-4	Chlorobenzene-d5	330000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	119000	13.346			

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

Report of Analysis

Client:	Kleinfelder	Date Collected:	10/31/24
Project:	Harrington School	Date Received:	11/01/24
Client Sample ID:	COMP-2	SDG No.:	P4675
Lab Sample ID:	P4675-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	85.7
Sample Wt/Vol:	4.28 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020142.D	1		11/04/24 15:00	VY110424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.83	U	0.83	6.80	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	6.80	ug/Kg
71-43-2	Benzene	0.98	U	0.98	6.80	ug/Kg
79-01-6	Trichloroethene	1.00	U	1.00	6.80	ug/Kg
108-88-3	Toluene	0.91	U	0.91	6.80	ug/Kg
100-41-4	Ethyl Benzene	0.85	U	0.85	6.80	ug/Kg
1330-20-7	Total Xylenes	2.75	U	2.75	20.4	ug/Kg
98-82-8	Isopropylbenzene	0.91	U	0.91	6.80	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	59.8		50 - 163	120%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		54 - 147	105%	SPK: 50
2037-26-5	Toluene-d8	49.3		58 - 134	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	47.7		29 - 146	95%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	168000	7.713			
540-36-3	1,4-Difluorobenzene	353000	8.616			
3114-55-4	Chlorobenzene-d5	334000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.346			

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Report of Analysis

Client:	Kleinfelder	Date Collected:	10/31/24
Project:	Harrington School	Date Received:	11/01/24
Client Sample ID:	COMP-3	SDG No.:	P4675
Lab Sample ID:	P4675-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.8
Sample Wt/Vol:	4.18 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020143.D	1		11/04/24 15:23	VY110424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.82	U	0.82	6.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	6.70	ug/Kg
71-43-2	Benzene	0.97	U	0.97	6.70	ug/Kg
79-01-6	Trichloroethene	1.00	U	1.00	6.70	ug/Kg
108-88-3	Toluene	0.90	U	0.90	6.70	ug/Kg
100-41-4	Ethyl Benzene	0.84	U	0.84	6.70	ug/Kg
1330-20-7	Total Xylenes	2.74	U	2.74	20.2	ug/Kg
98-82-8	Isopropylbenzene	0.90	U	0.90	6.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	56.7		50 - 163	113%	SPK: 50
1868-53-7	Dibromofluoromethane	52.3		54 - 147	105%	SPK: 50
2037-26-5	Toluene-d8	50.0		58 - 134	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.8		29 - 146	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	161000	7.713			
540-36-3	1,4-Difluorobenzene	337000	8.615			
3114-55-4	Chlorobenzene-d5	316000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	115000	13.346			

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Report of Analysis

Client:	Kleinfelder	Date Collected:	10/31/24
Project:	Harrington School	Date Received:	11/01/24
Client Sample ID:	COMP-4	SDG No.:	P4675
Lab Sample ID:	P4675-04	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.9
Sample Wt/Vol:	6.6 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020146.D	1		11/04/24 16:33	VY110424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.56	U	0.56	4.60	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.71	U	0.71	4.60	ug/Kg
71-43-2	Benzene	0.66	U	0.66	4.60	ug/Kg
79-01-6	Trichloroethene	0.69	U	0.69	4.60	ug/Kg
108-88-3	Toluene	0.61	U	0.61	4.60	ug/Kg
100-41-4	Ethyl Benzene	0.57	U	0.57	4.60	ug/Kg
1330-20-7	Total Xylenes	1.84	U	1.84	13.7	ug/Kg
98-82-8	Isopropylbenzene	0.61	U	0.61	4.60	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	64.3		50 - 163	129%	SPK: 50
1868-53-7	Dibromofluoromethane	54.3		54 - 147	109%	SPK: 50
2037-26-5	Toluene-d8	49.9		58 - 134	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.5		29 - 146	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	157000	7.713			
540-36-3	1,4-Difluorobenzene	338000	8.615			
3114-55-4	Chlorobenzene-d5	324000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	120000	13.346			

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* = Values outside of QC limits

D = Dilution

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Report of Analysis

Client:	Kleinfelder	Date Collected:	10/31/24
Project:	Harrington School	Date Received:	11/01/24
Client Sample ID:	COMP-5	SDG No.:	P4675
Lab Sample ID:	P4675-05	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	82.1
Sample Wt/Vol:	6.27 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020145.D	1		11/04/24 16:10	VY110424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.59	U	0.59	4.90	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.76	U	0.76	4.90	ug/Kg
71-43-2	Benzene	0.70	U	0.70	4.90	ug/Kg
79-01-6	Trichloroethene	0.73	U	0.73	4.90	ug/Kg
108-88-3	Toluene	0.65	U	0.65	4.90	ug/Kg
100-41-4	Ethyl Benzene	0.60	U	0.60	4.90	ug/Kg
1330-20-7	Total Xylenes	1.98	U	1.98	14.6	ug/Kg
98-82-8	Isopropylbenzene	0.65	U	0.65	4.90	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	60.8		50 - 163	122%	SPK: 50
1868-53-7	Dibromofluoromethane	53.9		54 - 147	108%	SPK: 50
2037-26-5	Toluene-d8	48.7		58 - 134	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	43.0		29 - 146	86%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	92200	7.707			
540-36-3	1,4-Difluorobenzene	187000	8.616			
3114-55-4	Chlorobenzene-d5	168000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	56600	13.346			

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Report of Analysis

Client:	Kleinfelder	Date Collected:	10/31/24
Project:	Harrington School	Date Received:	11/01/24
Client Sample ID:	COMP-6	SDG No.:	P4675
Lab Sample ID:	P4675-06	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	81.3
Sample Wt/Vol:	6.15 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020144.D	1		11/04/24 15:46	VY110424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	2.10	U	2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.0		50 - 163	114%	SPK: 50
1868-53-7	Dibromofluoromethane	52.7		54 - 147	105%	SPK: 50
2037-26-5	Toluene-d8	49.9		58 - 134	100%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		29 - 146	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	163000	7.713			
540-36-3	1,4-Difluorobenzene	342000	8.615			
3114-55-4	Chlorobenzene-d5	319000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	114000	13.346			

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A = Aldol-Condensation Reaction Products



QC SUMMARY

Surrogate Summary

SDG No.: **P4675**

Client: **Kleinfelder**

Analytical Method: **SW8260D**

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits	
						Low	High
P4675-01	COMP-1	1,2-Dichloroethane-d4	50	58.8	118	50	163
		Dibromofluoromethane	50	53.5	107	54	147
		Toluene-d8	50	49.4	99	58	134
		4-Bromofluorobenzene	50	46.0	92	29	146
P4675-02	COMP-2	1,2-Dichloroethane-d4	50	59.8	120	50	163
		Dibromofluoromethane	50	52.3	105	54	147
		Toluene-d8	50	49.3	99	58	134
		4-Bromofluorobenzene	50	47.7	95	29	146
P4675-03	COMP-3	1,2-Dichloroethane-d4	50	56.8	113	50	163
		Dibromofluoromethane	50	52.3	105	54	147
		Toluene-d8	50	50.0	100	58	134
		4-Bromofluorobenzene	50	46.8	94	29	146
P4675-04	COMP-4	1,2-Dichloroethane-d4	50	64.3	129	50	163
		Dibromofluoromethane	50	54.3	109	54	147
		Toluene-d8	50	49.9	100	58	134
		4-Bromofluorobenzene	50	48.5	97	29	146
P4675-05	COMP-5	1,2-Dichloroethane-d4	50	60.8	122	50	163
		Dibromofluoromethane	50	53.9	108	54	147
		Toluene-d8	50	48.7	97	58	134
		4-Bromofluorobenzene	50	43.0	86	29	146
P4675-06	COMP-6	1,2-Dichloroethane-d4	50	57.0	114	50	163
		Dibromofluoromethane	50	52.8	105	54	147
		Toluene-d8	50	49.9	100	58	134
		4-Bromofluorobenzene	50	46.3	93	29	146
VY1104SBL01	VY1104SBL01	1,2-Dichloroethane-d4	50	50.9	102	50	163
		Dibromofluoromethane	50	49.7	99	54	147
		Toluene-d8	50	48.6	97	58	134
		4-Bromofluorobenzene	50	40.5	81	29	146
VY1104SBS01	VY1104SBS01	1,2-Dichloroethane-d4	50	54.6	109	50	163
		Dibromofluoromethane	50	54.8	110	54	147
		Toluene-d8	50	54.6	109	58	134
		4-Bromofluorobenzene	50	54.1	108	29	146
VY1104SBSD01	VY1104SBSD01	1,2-Dichloroethane-d4	50	57.4	115	50	163
		Dibromofluoromethane	50	56.8	114	54	147
		Toluene-d8	50	56.6	113	58	134
		4-Bromofluorobenzene	50	54.9	110	29	146

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4675

Client: Kleinfelder

Analytical Method: SW8260D

Datafile : VY020135.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY1104SBS01	cis-1,2-Dichloroethene	20	21.1	ug/Kg	106			82	123	
	1,1,1-Trichloroethane	20	21.2	ug/Kg	106			80	126	
	Benzene	20	20.7	ug/Kg	104			84	121	
	Trichloroethene	20	20.8	ug/Kg	104			83	122	
	Toluene	20	20.9	ug/Kg	104			83	122	
	Ethyl Benzene	20	20.7	ug/Kg	104			82	124	
	m/p-Xylenes	40	41.3	ug/Kg	103			83	124	
	o-Xylene	20	20.8	ug/Kg	104			83	123	
	Isopropylbenzene	20	21.3	ug/Kg	106			82	124	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4675

Client: Kleinfelder

Analytical Method: SW8260D

Datafile : VY020136.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Low	Limits	RPD
									High	
VY1104SBSD01	cis-1,2-Dichloroethene	20	23.8	ug/Kg	119	12		82	123	20
	1,1,1-Trichloroethane	20	24.0	ug/Kg	120	12		80	126	20
	Benzene	20	23.4	ug/Kg	117	12		84	121	20
	Trichloroethene	20	23.4	ug/Kg	117	12		83	122	20
	Toluene	20	23.1	ug/Kg	116	11		83	122	20
	Ethyl Benzene	20	23.4	ug/Kg	117	12		82	124	20
	m/p-Xylenes	40	46.9	ug/Kg	117	13		83	124	20
	o-Xylene	20	23.1	ug/Kg	116	11		83	123	20
	Isopropylbenzene	20	24.0	ug/Kg	120	12		82	124	20

VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1104SBL01

Lab Name: CHEMTECH

Contract: POWE02

Lab Code: CHEM Case No.: P4675

SAS No.: P4675 SDG NO.: P4675

Lab File ID: VY020134.D

Lab Sample ID: VY1104SBL01

Date Analyzed: 11/04/2024

Time Analyzed: 11:01

GC Column: RXI-624 ID: 0.25 (mm)

Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY1104SBS01	VY1104SBS01	VY020135.D	11/04/2024
VY1104SBSD01	VY1104SBSD01	VY020136.D	11/04/2024
COMP-1	P4675-01	VY020141.D	11/04/2024
COMP-2	P4675-02	VY020142.D	11/04/2024
COMP-3	P4675-03	VY020143.D	11/04/2024
COMP-6	P4675-06	VY020144.D	11/04/2024
COMP-5	P4675-05	VY020145.D	11/04/2024
COMP-4	P4675-04	VY020146.D	11/04/2024

COMMENTS: _____

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02
Lab Code: CHEM Case No.: P4675 SAS No.: P4675 SDG NO.: P4675
Lab File ID: VY020074.D BFB Injection Date: 10/30/2024
Instrument ID: MSVOA_Y BFB Injection Time: 12:07
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24
75	30.0 - 60.0% of mass 95	57.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	1.1 (1.4) 1
174	50.0 - 100.0% of mass 95	74.5
175	5.0 - 9.0% of mass 174	5.8 (7.8) 1
176	95.0 - 101.0% of mass 174	70.8 (95.1) 1
177	5.0 - 9.0% of mass 176	4.9 (6.9) 2

1-Value is % mass 174

2-Value is % mass 176

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
VSTDIC005	VSTDIC005	VY020075.D	10/30/2024	12:39
VSTDIC010	VSTDIC010	VY020076.D	10/30/2024	13:02
VSTDIC020	VSTDIC020	VY020077.D	10/30/2024	13:24
VSTDIC050	VSTDIC050	VY020078.D	10/30/2024	14:06
VSTDIC100	VSTDIC100	VY020079.D	10/30/2024	14:29
VSTDIC150	VSTDIC150	VY020080.D	10/30/2024	14:52

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02
Lab Code: CHEM Case No.: P4675 SAS No.: P4675 SDG NO.: P4675
Lab File ID: VY020132.D BFB Injection Date: 11/04/2024
Instrument ID: MSVOA_Y BFB Injection Time: 08:51
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	23.7
75	30.0 - 60.0% of mass 95	59.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.3
173	Less than 2.0% of mass 174	1 (1.4) 1
174	50.0 - 100.0% of mass 95	74.5
175	5.0 - 9.0% of mass 174	5.9 (7.9) 1
176	95.0 - 101.0% of mass 174	72.4 (97.3) 1
177	5.0 - 9.0% of mass 176	4.7 (6.5) 2

1-Value is % mass 174

2-Value is % mass 176

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
VSTDCCC050	VSTDCCC050	VY020133.D	11/04/2024	09:42
VY1104SBL01	VY1104SBL01	VY020134.D	11/04/2024	11:01
VY1104SBS01	VY1104SBS01	VY020135.D	11/04/2024	11:38
VY1104SBSD01	VY1104SBSD01	VY020136.D	11/04/2024	12:13
COMP-1	P4675-01	VY020141.D	11/04/2024	14:36
COMP-2	P4675-02	VY020142.D	11/04/2024	15:00
COMP-3	P4675-03	VY020143.D	11/04/2024	15:23
COMP-6	P4675-06	VY020144.D	11/04/2024	15:46
COMP-5	P4675-05	VY020145.D	11/04/2024	16:10
COMP-4	P4675-04	VY020146.D	11/04/2024	16:33

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02
Lab Code: CHEM Case No.: P4675 SAS No.: P4675 SDG NO.: P4675
Lab File ID: VY020133.D Date Analyzed: 11/04/2024
Instrument ID: MSVOA_Y Time Analyzed: 09:42
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	239824	7.72	426500	8.62	366904	11.42
UPPER LIMIT	479648	8.219	853000	9.122	733808	11.92
LOWER LIMIT	119912	7.219	213250	8.122	183452	10.92
EPA SAMPLE NO.						
COMP-1	171889	7.71	354571	8.62	329986	11.41
COMP-2	168297	7.71	352625	8.62	333602	11.41
COMP-3	160931	7.71	337460	8.62	316034	11.41
COMP-4	157420	7.71	338266	8.62	324300	11.41
COMP-5	92185 *	7.71	187487 *	8.62	168357 *	11.41
COMP-6	163201	7.71	341777	8.62	319250	11.41
VY1104SBL01	190734	7.71	396382	8.62	340703	11.42
VY1104SBS01	236479	7.71	424679	8.62	362446	11.42
VY1104SBSD01	224747	7.71	407852	8.62	348566	11.42

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

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 LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02
Lab Code: CHEM Case No.: P4675 SAS No.: P4675 SDG NO.: P4675
Lab File ID: VY020133.D Date Analyzed: 11/04/2024
Instrument ID: MSVOA_Y Time Analyzed: 09:42
GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	164869	13.352				
UPPER LIMIT	329738	13.852				
LOWER LIMIT	82434.5	12.852				
EPA SAMPLE NO.						
COMP-1	119248	13.35				
COMP-2	121411	13.35				
COMP-3	115374	13.35				
COMP-4	120297	13.35				
COMP-5	56627 *	13.35				
COMP-6	113506	13.35				
VY1104SBL01	108210	13.35				
VY1104SBS01	165041	13.35				
VY1104SBSD01	155977	13.35				

IS4 = 1,4-Dichlorobenzene-d4

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 LOWER 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

Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Harrington School	Date Received:	
Client Sample ID:	VY1104SBL01	SDG No.:	P4675
Lab Sample ID:	VY1104SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020134.D	1		11/04/24 11:01	VY110424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	2.10	U	2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	50.9		50 - 163	102%	SPK: 50
1868-53-7	Dibromofluoromethane	49.7		54 - 147	99%	SPK: 50
2037-26-5	Toluene-d8	48.6		58 - 134	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.4		29 - 146	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	191000	7.713			
540-36-3	1,4-Difluorobenzene	396000	8.622			
3114-55-4	Chlorobenzene-d5	341000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	108000	13.353			

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

Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Harrington School	Date Received:	
Client Sample ID:	VY1104SBS01	SDG No.:	P4675
Lab Sample ID:	VY1104SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020135.D	1		11/04/24 11:38	VY110424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	21.1		0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.2		0.78	5.00	ug/Kg
71-43-2	Benzene	20.7		0.72	5.00	ug/Kg
79-01-6	Trichloroethene	20.8		0.75	5.00	ug/Kg
108-88-3	Toluene	20.9		0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.7		0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	62.1		2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	21.3		0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.6		50 - 163	109%	SPK: 50
1868-53-7	Dibromofluoromethane	54.8		54 - 147	110%	SPK: 50
2037-26-5	Toluene-d8	54.6		58 - 134	109%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.1		29 - 146	108%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	236000	7.713			
540-36-3	1,4-Difluorobenzene	425000	8.622			
3114-55-4	Chlorobenzene-d5	362000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	165000	13.347			

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

Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Harrington School	Date Received:	
Client Sample ID:	VY1104SBSD01	SDG No.:	P4675
Lab Sample ID:	VY1104SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020136.D	1		11/04/24 12:13	VY110424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	23.8		0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	24.0		0.78	5.00	ug/Kg
71-43-2	Benzene	23.4		0.72	5.00	ug/Kg
79-01-6	Trichloroethene	23.4		0.75	5.00	ug/Kg
108-88-3	Toluene	23.1		0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	23.4		0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	70.0		2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	24.0		0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	57.4		50 - 163	115%	SPK: 50
1868-53-7	Dibromofluoromethane	56.8		54 - 147	114%	SPK: 50
2037-26-5	Toluene-d8	56.6		58 - 134	113%	SPK: 50
460-00-4	4-Bromofluorobenzene	54.9		29 - 146	110%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	225000	7.713			
540-36-3	1,4-Difluorobenzene	408000	8.622			
3114-55-4	Chlorobenzene-d5	349000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	156000	13.352			

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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>CHEMTECH</u>	Contract: <u>POWE02</u>
Lab Code: <u>CHEM</u> Case No.: <u>P4675</u>	SAS No.: <u>P4675</u> SDG No.: <u>P4675</u>
Instrument ID: <u>MSVOA_Y</u>	Calibration Date(s): <u>10/30/2024</u> <u>10/30/2024</u>
Heated Purge: (Y/N) <u>Y</u>	Calibration Time(s): <u>12:39</u> <u>14:52</u>
GC Column: <u>RXI-624</u> ID: <u>0.25</u> (mm)	

LAB FILE ID:		RRF005 = VY020075.D		RRF010 = VY020076.D		RRF020 = VY020077.D		
		RRF050 = VY020078.D		RRF100 = VY020079.D		RRF150 = VY020080.D		
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD
cis-1,2-Dichloroethene	0.646	0.714	0.715	0.646	0.740	0.736	0.700	6.1
1,1,1-Trichloroethane	0.986	1.026	1.009	0.950	1.041	1.069	1.013	4.1
Benzene	1.414	1.405	1.455	1.325	1.504	1.498	1.433	4.7
Trichloroethene	0.328	0.331	0.332	0.307	0.348	0.346	0.332	4.4
Toluene	0.803	0.859	0.900	0.833	0.953	0.953	0.884	7.1
Ethyl Benzene	1.886	1.934	2.015	1.876	2.114	2.124	1.992	5.5
m/p-Xylenes	0.685	0.693	0.742	0.692	0.779	0.782	0.729	6.2
o-Xylene	0.652	0.662	0.686	0.649	0.745	0.745	0.690	6.5
Isopropylbenzene	4.065	3.829	3.995	3.685	4.099	4.293	3.994	5.3
1,2-Dichloroethane-d4	0.608	0.657	0.578	0.586	0.668	0.647	0.624	6.1
Dibromofluoromethane	0.305	0.317	0.300	0.305	0.340	0.340	0.318	5.7
Toluene-d8	1.187	1.251	1.187	1.224	1.380	1.364	1.265	6.8
4-Bromofluorobenzene	0.371	0.402	0.376	0.399	0.463	0.454	0.411	9.5

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P4675 SAS No.: P4675 SDG No.: P4675

Instrument ID: MSVOA_Y Calibration Date/Time: 11/04/2024 09:42

Lab File ID: VY020133.D Init. Calib. Date(s): 10/30/2024 10/30/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 12:39 14:52

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
cis-1,2-Dichloroethene	0.700	0.796		13.71	20
1,1,1-Trichloroethane	1.013	1.146		13.13	20
Benzene	1.433	1.616		12.77	20
Trichloroethene	0.332	0.373		12.35	20
Toluene	0.884	1.023		15.72	20
Ethyl Benzene	1.992	2.300		15.46	20
m/p-Xylenes	0.729	0.853		17.01	20
o-Xylene	0.690	0.798		15.65	20
Isopropylbenzene	3.994	4.804		20.28	20
1,2-Dichloroethane-d4	0.624	0.639		2.4	20
Dibromofluoromethane	0.318	0.337		5.97	20
Toluene-d8	1.265	1.328		4.98	20
4-Bromofluorobenzene	0.411	0.423		2.92	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.