

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU061225\
 Data File : VU063394.D
 Acq On : 12 Jun 2025 12:13
 Operator : MD/SY
 Sample : Q2117-06
 Misc : 5.00g/5.0mL/100uL/5mL/MSVOA_U/MEOH/B
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MED-SOIL-QT2-2025-04

Quant Time: Jun 16 08:41:10 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM061125WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Jun 16 08:39:07 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/17/2025
 Supervised By : Mahesh Dadoda 06/17/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	132637	50.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	141717	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.807	152	64721	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.592	65	46426	46.366	ug/L	0.00
Spiked Amount 50.000	Range 60 - 135		Recovery =	92.740%		
7) Chloroethane-d5	1.901	69	46552	47.776	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	95.560%		
11) 1,1-Dichloroethene-d2	2.554	63	65029	34.180	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	68.360%		
21) 2-Butanone-d5	4.615	46	93766	107.918	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	107.920%		
24) Chloroform-d	5.052	84	103112	48.445	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	96.880%		
26) 1,2-Dichloroethane-d4	5.692	65	66555	51.058	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	102.120%		
32) Benzene-d6	5.718	84	199541	46.554	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	93.100%		
36) 1,2-Dichloropropane-d6	6.682	67	71035	48.863	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	97.720%		
41) Toluene-d8	7.891	98	168612	44.832	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	89.660%		
43) trans-1,3-Dichloroprop...	8.174	79	27299	46.664	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	93.320%		
47) 2-Hexanone-d5	8.627	63	51320	95.083	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	95.080%		
56) 1,1,2,2-Tetrachloroeth...	10.746	84	106627	48.023	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	96.040%		
66) 1,2-Dichlorobenzene-d4	12.187	152	63168	53.343	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	106.680%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.380	85	3231	2.535	ug/L	97
3) Chloromethane	1.522	50	3791	2.633	ug/L	92
5) Vinyl chloride	1.599	62	4623	2.920	ug/L	86
6) Bromomethane	1.846	94	2373	2.663	ug/L	91
8) Chloroethane	1.923	64	2894	2.922	ug/L	99
9) Trichlorofluoromethane	2.129	101	5136	2.755	ug/L	94
10) 1,1,2-Trichloro-1,2,2-...	2.563	101	3303	2.973	ug/L #	83
12) 1,1-Dichloroethene	2.567	96	2989	3.023	ug/L #	1
13) Acetone	2.624	43	3709	5.633	ug/L	99
14) Carbon disulfide	2.782	76	8554	2.620	ug/L	100
15) Methyl Acetate	2.952	43	3046	2.230	ug/L #	100
17) trans-1,2-Dichloroethene	3.348	96	2722	2.562	ug/L	91
18) Methyl tert-butyl Ether	3.354	73	7256	2.276	ug/L #	85
19) 1,1-Dichloroethane	3.866	63	5536	2.489	ug/L	98
20) cis-1,2-Dichloroethene	4.660	96	3213	2.660	ug/L	86
22) 2-Butanone	4.724	43	5619m	5.770	ug/L	
23) Bromochloromethane	4.972	128	1642	2.544	ug/L	86
25) Chloroform	5.078	83	6320	2.848	ug/L	95
27) 1,2-Dichloroethane	5.791	62	4637	2.664	ug/L #	92

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
29) Cyclohexane	5.380	56	3758	1.998	ug/L	89
30) 1,1,1-Trichloroethane	5.303	97	4228	2.363	ug/L	94
31) Carbon tetrachloride	5.518	117	3628	2.411	ug/L	100
33) Benzene	5.769	78	12307	2.499	ug/L	100
34) Trichloroethene	6.541	95	3495	2.761	ug/L	82
35) Methylcyclohexane	6.753	83	4232	2.260	ug/L	93
37) 1,2-Dichloropropane	6.788	63	3450	2.362	ug/L #	89
38) Bromodichloromethane	7.097	83	4318	2.506	ug/L #	98
39) cis-1,3-Dichloropropene	7.605	75	4608	2.327	ug/L	97
40) 4-Methyl-2-pentanone	7.788	43	8513	4.698	ug/L	96
42) Toluene	7.965	91	12442	2.418	ug/L	94
44) trans-1,3-Dichloropropene	8.206	75	4711	2.542	ug/L	98
45) 1,1,2-Trichloroethane	8.393	97	3459	2.587	ug/L	93
46) Tetrachloroethene	8.547	164	2444	2.612	ug/L	89
48) 2-Hexanone	8.685	43	12057	8.532	ug/L #	94
49) Dibromochloromethane	8.801	129	2910	2.294	ug/L	89
50) 1,2-Dibromoethane	8.917	107	3554	2.601	ug/L #	98
51) Chlorobenzene	9.444	112	8416	2.523	ug/L	96
52) Ethylbenzene	9.566	91	11431	2.122	ug/L	97
53) m,p-Xylene	9.695	106	3868	1.940	ug/L	85
54) o-Xylene	10.097	106	4083	2.149	ug/L	69
55) Styrene	10.116	104	5982	1.833	ug/L	93
57) 1,1,2,2-Tetrachloroethane	10.775	83	6260	2.620	ug/L	93
59) Bromoform	10.286	173	2289	2.666	ug/L #	94
60) 1,2,3-Trichloropropane	10.814	75	4790	3.078	ug/L	95
61) Isopropylbenzene	10.479	105	9578	2.241	ug/L	99
62) 1,3,5-Trimethylbenzene	11.084	105	6796	2.057	ug/L	98
63) 1,2,4-Trimethylbenzene	11.463	105	6111	1.947	ug/L	100
64) 1,3-Dichlorobenzene	11.743	146	5357	2.525	ug/L	96
65) 1,4-Dichlorobenzene	11.833	146	5978	2.741	ug/L	98
67) 1,2-Dichlorobenzene	12.203	146	6043	2.821	ug/L	98
68) 1,2-Dibromo-3-chloropr...	13.000	75	1004	2.399	ug/L	94
69) 1,3,5-Trichlorobenzene	13.222	180	3623	2.522	ug/L #	67
70) 1,2,4-trichlorobenzene	13.846	180	3039	2.725	ug/L #	83
71) Naphthalene	14.097	128	7243m	2.408	ug/L	
72) 1,2,3-Trichlorobenzene	14.328	180	2661	2.410	ug/L #	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

