

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101525\
 Data File : VY023470.D
 Acq On : 15 Oct 2025 10:38
 Operator : SY/MD
 Sample : VSTDCCC050
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/17/2025
 Supervised By : Mahesh Dadoda 10/17/2025

Quant Time: Oct 16 02:41:22 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	7.713	168	492260	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	691248	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	627836	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	337288	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	196812	47.812	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	95.620%		
35) Dibromofluoromethane	7.640	113	221539	52.159	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	104.320%		
50) Toluene-d8	10.109	98	808868	51.137	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	102.280%		
62) 4-Bromofluorobenzene	12.407	95	263052	50.372	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	100.740%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	151297	42.700	ug/l	98
3) Chloromethane	2.074	50	214036	44.343	ug/l	99
4) Vinyl Chloride	2.208	62	285700	45.444	ug/l	100
5) Bromomethane	2.598	94	242484	45.961	ug/l	99
6) Chloroethane	2.738	64	209282	48.835	ug/l	99
7) Trichlorofluoromethane	3.061	101	414282	47.459	ug/l	99
8) Diethyl Ether	3.458	74	107812	47.266	ug/l	98
9) 1,1,2-Trichlorotrifluo...	3.817	101	225043	49.681	ug/l	100
10) Methyl Iodide	4.006	142	267991	53.144	ug/l	98
11) Tert butyl alcohol	4.866	59	70755	231.050	ug/l	99
12) 1,1-Dichloroethene	3.793	96	212709	48.441	ug/l	92
13) Acrolein	3.653	56	55957	129.316	ug/l	98
14) Allyl chloride	4.390	41	253495	47.369	ug/l	99
15) Acrylonitrile	5.061	53	215805	247.222	ug/l	100
16) Acetone	3.872	43	230837	235.554	ug/l	100
17) Carbon Disulfide	4.110	76	602271	47.922	ug/l	100
18) Methyl Acetate	4.390	43	138134	53.735	ug/l	99
19) Methyl tert-butyl Ether	5.122	73	513855	48.690	ug/l	99
20) Methylene Chloride	4.616	84	239665	45.227	ug/l	98
21) trans-1,2-Dichloroethene	5.122	96	245169	50.713	ug/l	97
22) Diisopropyl ether	6.024	45	588254	49.695	ug/l	99
23) Vinyl Acetate	5.963	43	1532277	239.146	ug/l	98
24) 1,1-Dichloroethane	5.921	63	391143	49.883	ug/l	98
25) 2-Butanone	6.896	43	279309	233.459	ug/l	100
26) 2,2-Dichloropropane	6.890	77	356649	49.569	ug/l	99
27) cis-1,2-Dichloroethene	6.896	96	283209	50.715	ug/l	97
28) Bromochloromethane	7.250	49	140502	47.999	ug/l	100
29) Tetrahydrofuran	7.268	42	159942	235.750	ug/l	97
30) Chloroform	7.427	83	447247	51.915	ug/l	100
31) Cyclohexane	7.707	56	307515	44.908	ug/l	98
32) 1,1,1-Trichloroethane	7.622	97	398415	50.889	ug/l	100
36) 1,1-Dichloropropene	7.841	75	299005	53.174	ug/l	100
37) Ethyl Acetate	6.988	43	111930	50.244	ug/l	98
38) Carbon Tetrachloride	7.823	117	368233	54.006	ug/l	98
39) Methylcyclohexane	9.115	83	374784	51.190	ug/l	99
40) Benzene	8.085	78	950710	53.387	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.225	41	58917	48.900	ug/l	94
42) 1,2-Dichloroethane	8.158	62	240599	52.388	ug/l	99
43) Isopropyl Acetate	8.201	43	220965	49.743	ug/l	98
44) Trichloroethene	8.865	130	274046	52.578	ug/l	96
45) 1,2-Dichloropropane	9.146	63	213281	54.224	ug/l	100
46) Dibromomethane	9.237	93	136407	54.844	ug/l	98
47) Bromodichloromethane	9.426	83	341065	54.448	ug/l	99
48) Methyl methacrylate	9.225	41	109929	52.677	ug/l	98
49) 1,4-Dioxane	9.231	88	28930	1003.229	ug/l	96
51) 4-Methyl-2-Pentanone	9.999	43	608100	264.957	ug/l	99
52) Toluene	10.170	92	632492	54.703	ug/l	99
53) t-1,3-Dichloropropene	10.395	75	288566	52.980	ug/l	100
54) cis-1,3-Dichloropropene	9.859	75	340643	52.991	ug/l	99
55) 1,1,2-Trichloroethane	10.572	97	183474	54.857	ug/l	96
56) Ethyl methacrylate	10.438	69	208200	53.965	ug/l	98
57) 1,3-Dichloropropane	10.719	76	288760	54.484	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	496293	287.155	ug/l	100
59) 2-Hexanone	10.761	43	420646	256.464	ug/l	99
60) Dibromochloromethane	10.914	129	259424	55.324	ug/l	99
61) 1,2-Dibromoethane	11.017	107	173908	54.521	ug/l	99
64) Tetrachloroethene	10.652	164	352200	54.330	ug/l	98
65) Chlorobenzene	11.444	112	710854	52.058	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.517	131	259562	53.341	ug/l	99
67) Ethyl Benzene	11.517	91	1173898	53.109	ug/l	100
68) m/p-Xylenes	11.627	106	959836	108.265	ug/l	99
69) o-Xylene	11.956	106	445604	53.586	ug/l	98
70) Styrene	11.968	104	757633	55.403	ug/l	99
71) Bromoform	12.133	173	162157	53.723	ug/l #	98
73) Isopropylbenzene	12.255	105	1150627	51.765	ug/l	100
74) N-amyl acetate	12.072	43	184939	46.322	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.505	83	184230	50.675	ug/l	100
76) 1,2,3-Trichloropropane	12.560	75	142938m	48.034	ug/l	
77) Bromobenzene	12.529	156	294772	49.883	ug/l	99
78) n-propylbenzene	12.596	91	1363164	52.996	ug/l	100
79) 2-Chlorotoluene	12.682	91	773039	51.321	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	950419	52.914	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	60312	49.700	ug/l	99
82) 4-Chlorotoluene	12.779	91	813443	52.437	ug/l	100
83) tert-Butylbenzene	12.999	119	857708	51.719	ug/l	100
84) 1,2,4-Trimethylbenzene	13.041	105	950061	53.000	ug/l	100
85) sec-Butylbenzene	13.175	105	1248337	52.474	ug/l	99
86) p-Isopropyltoluene	13.291	119	1071507	52.901	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	587415	51.048	ug/l	100
88) 1,4-Dichlorobenzene	13.364	146	568116	49.988	ug/l	99
89) n-Butylbenzene	13.614	91	920759	52.171	ug/l	100
90) Hexachloroethane	13.877	117	226061	51.891	ug/l	97
91) 1,2-Dichlorobenzene	13.657	146	513572	50.906	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.273	75	29374	49.243	ug/l	99
93) 1,2,4-Trichlorobenzene	14.919	180	298665	47.487	ug/l	98
94) Hexachlorobutadiene	15.023	225	193819	49.436	ug/l	100
95) Naphthalene	15.145	128	467984	46.727	ug/l	100
96) 1,2,3-Trichlorobenzene	15.328	180	258709	47.489	ug/l	99

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

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