

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101625\
 Data File : VY023481.D
 Acq On : 16 Oct 2025 09:12
 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 17 01:50:07 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	504198	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.621	114	703605	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	622685	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	326705	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	197403	46.820	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	93.640%		
35) Dibromofluoromethane	7.640	113	228352	52.819	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	105.640%		
50) Toluene-d8	10.109	98	858304	53.309	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	106.620%		
62) 4-Bromofluorobenzene	12.407	95	274401	51.622	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	103.240%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.866	85	168822	46.518	ug/l	100
3) Chloromethane	2.074	50	230975	46.720	ug/l	96
4) Vinyl Chloride	2.208	62	312417	48.517	ug/l	100
5) Bromomethane	2.598	94	252674	46.758	ug/l	99
6) Chloroethane	2.738	64	227451	51.818	ug/l	99
7) Trichlorofluoromethane	3.061	101	450846	50.425	ug/l	100
8) Diethyl Ether	3.458	74	109301	46.784	ug/l	100
9) 1,1,2-Trichlorotrifluo...	3.817	101	247859	53.422	ug/l	99
10) Methyl Iodide	4.006	142	304220	58.900	ug/l	99
11) Tert butyl alcohol	4.854	59	65026	207.314	ug/l	98
12) 1,1-Dichloroethene	3.793	96	231632	51.502	ug/l	94
13) Acrolein	3.659	56	46607	105.158	ug/l	99
14) Allyl chloride	4.390	41	277163	50.565	ug/l	98
15) Acrylonitrile	5.061	53	209158	233.934	ug/l	99
16) Acetone	3.866	43	253226	252.283	ug/l	99
17) Carbon Disulfide	4.110	76	662664	51.479	ug/l	99
18) Methyl Acetate	4.384	43	130552	49.583	ug/l	100
19) Methyl tert-butyl Ether	5.122	73	513963	47.547	ug/l	97
20) Methylene Chloride	4.622	84	252722	46.562	ug/l	95
21) trans-1,2-Dichloroethene	5.122	96	262147	52.941	ug/l	98
22) Diisopropyl ether	6.024	45	625388	51.581	ug/l	99
23) Vinyl Acetate	5.963	43	1552651	236.589	ug/l	99
24) 1,1-Dichloroethane	5.921	63	424830	52.897	ug/l	98
25) 2-Butanone	6.896	43	275465	224.795	ug/l	98
26) 2,2-Dichloropropane	6.890	77	397829	53.984	ug/l	98
27) cis-1,2-Dichloroethene	6.896	96	306156	53.526	ug/l	97
28) Bromochloromethane	7.250	49	140992	47.026	ug/l	99
29) Tetrahydrofuran	7.268	42	149257	214.792	ug/l	100
30) Chloroform	7.426	83	473385	53.648	ug/l	99
31) Cyclohexane	7.707	56	342677	48.858	ug/l	99
32) 1,1,1-Trichloroethane	7.621	97	430796	53.723	ug/l	99
36) 1,1-Dichloropropene	7.841	75	327508	57.220	ug/l	100
37) Ethyl Acetate	6.987	43	106159	46.817	ug/l	99
38) Carbon Tetrachloride	7.823	117	402588	58.008	ug/l	100
39) Methylcyclohexane	9.115	83	414933	55.679	ug/l	100
40) Benzene	8.085	78	1016809	56.096	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.225	41	65803	53.656	ug/l #	87
42) 1,2-Dichloroethane	8.164	62	247813	53.011	ug/l	100
43) Isopropyl Acetate	8.201	43	208996	46.223	ug/l	100
44) Trichloroethene	8.871	130	293318	55.287	ug/l	99
45) 1,2-Dichloropropane	9.146	63	222124	55.480	ug/l	99
46) Dibromomethane	9.237	93	138624	54.757	ug/l	97
47) Bromodichloromethane	9.426	83	357924	56.136	ug/l	99
48) Methyl methacrylate	9.225	41	103819	48.875	ug/l	98
49) 1,4-Dioxane	9.225	88	26701	909.671	ug/l	98
51) 4-Methyl-2-Pentanone	9.999	43	564235	241.527	ug/l	100
52) Toluene	10.176	92	674636	57.323	ug/l	99
53) t-1,3-Dichloropropene	10.395	75	297170	53.602	ug/l	97
54) cis-1,3-Dichloropropene	9.859	75	361241	55.208	ug/l	99
55) 1,1,2-Trichloroethane	10.572	97	181108	53.198	ug/l	97
56) Ethyl methacrylate	10.444	69	198657	50.587	ug/l	99
57) 1,3-Dichloropropane	10.719	76	289701	53.701	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.713	63	452744	257.357	ug/l	99
59) 2-Hexanone	10.761	43	404991	242.583	ug/l	100
60) Dibromochloromethane	10.914	129	258288	54.114	ug/l	98
61) 1,2-Dibromoethane	11.017	107	173331	53.386	ug/l	99
64) Tetrachloroethene	10.651	164	365309	56.818	ug/l	97
65) Chlorobenzene	11.444	112	752258	55.546	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.517	131	269641	55.871	ug/l	99
67) Ethyl Benzene	11.523	91	1259682	57.462	ug/l	100
68) m/p-Xylenes	11.627	106	1023796	116.434	ug/l	99
69) o-Xylene	11.956	106	469895	56.974	ug/l	99
70) Styrene	11.968	104	793392	58.498	ug/l	100
71) Bromoform	12.133	173	155093	51.808	ug/l #	99
73) Isopropylbenzene	12.255	105	1241405	57.659	ug/l	100
74) N-amyl acetate	12.072	43	181603	46.960	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.505	83	175704	49.896	ug/l	99
76) 1,2,3-Trichloropropane	12.560	75	138704m	48.121	ug/l	
77) Bromobenzene	12.535	156	306909	53.619	ug/l	99
78) n-propylbenzene	12.596	91	1453652	58.345	ug/l	100
79) 2-Chlorotoluene	12.682	91	818664	56.111	ug/l	99
80) 1,3,5-Trimethylbenzene	12.736	105	1015624	58.376	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	57920	49.275	ug/l	99
82) 4-Chlorotoluene	12.779	91	852372	56.726	ug/l	100
83) tert-Butylbenzene	12.999	119	918191	57.159	ug/l	99
84) 1,2,4-Trimethylbenzene	13.041	105	1006700	57.979	ug/l	100
85) sec-Butylbenzene	13.175	105	1339630	58.135	ug/l	99
86) p-Isopropyltoluene	13.291	119	1150627	58.647	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	613123	55.008	ug/l	100
88) 1,4-Dichlorobenzene	13.370	146	589042	53.509	ug/l	99
89) n-Butylbenzene	13.620	91	1000821	58.544	ug/l	99
90) Hexachloroethane	13.883	117	240918	57.092	ug/l	96
91) 1,2-Dichlorobenzene	13.657	146	527112	53.941	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	14.273	75	26704	46.217	ug/l	98
93) 1,2,4-Trichlorobenzene	14.919	180	313461	51.453	ug/l	100
94) Hexachlorobutadiene	15.023	225	208839	54.993	ug/l	99
95) Naphthalene	15.145	128	463611	47.790	ug/l	100
96) 1,2,3-Trichlorobenzene	15.327	180	265054	50.229	ug/l	100

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

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