

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081925\
 Data File : VY023140.D
 Acq On : 19 Aug 2025 10:42
 Operator : SY/MD
 Sample : VY0819SBS01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 VY0819SBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/20/2025
 Supervised By : Mahesh Dadoda 08/20/2025

Quant Time: Aug 20 01:25:41 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	517578	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	818799	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	712593	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	351390	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	227323	46.083	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	92.160%
35) Dibromofluoromethane	7.634	113	233145	47.586	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	95.180%
50) Toluene-d8	10.103	98	927285	48.447	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	96.900%
62) 4-Bromofluorobenzene	12.401	95	288067	46.799	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	93.600%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.867	85	89236	21.122	ug/l	98
3) Chloromethane	2.068	50	132388	19.347	ug/l	99
4) Vinyl Chloride	2.202	62	171181	20.238	ug/l	99
5) Bromomethane	2.592	94	135998	21.529	ug/l	98
6) Chloroethane	2.732	64	114583	20.376	ug/l	98
7) Trichlorofluoromethane	3.056	101	211631	20.576	ug/l	98
8) Diethyl Ether	3.452	74	52093	19.144	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.818	101	106851	21.058	ug/l	98
10) Methyl Iodide	4.007	142	111681	20.397	ug/l	100
11) Tert butyl alcohol	4.860	59	30321	89.708	ug/l	98
12) 1,1-Dichloroethene	3.787	96	103385	20.728	ug/l	97
13) Acrolein	3.647	56	35966	72.659	ug/l	99
14) Allyl chloride	4.378	41	136871	18.650	ug/l	97
15) Acrylonitrile	5.061	53	102624	92.765	ug/l	99
16) Acetone	3.866	43	111533	104.365	ug/l	94
17) Carbon Disulfide	4.104	76	322174	19.811	ug/l	100
18) Methyl Acetate	4.385	43	55681	17.509	ug/l	99
19) Methyl tert-butyl Ether	5.116	73	252503	19.537	ug/l	96
20) Methylene Chloride	4.610	84	117942	19.585	ug/l	93
21) trans-1,2-Dichloroethene	5.116	96	113075	20.174	ug/l	95
22) Diisopropyl ether	6.018	45	306183	19.199	ug/l	94
23) Vinyl Acetate	5.957	43	822478	93.270	ug/l	98
24) 1,1-Dichloroethane	5.915	63	195367	20.037	ug/l	98
25) 2-Butanone	6.896	43	142067	97.745	ug/l	97
26) 2,2-Dichloropropane	6.884	77	174925	20.792	ug/l	99
27) cis-1,2-Dichloroethene	6.890	96	133374	20.583	ug/l	95
28) Bromochloromethane	7.244	49	75405	19.493	ug/l	96
29) Tetrahydrofuran	7.262	42	83508	92.691	ug/l	99
30) Chloroform	7.421	83	205577	20.444	ug/l	97
31) Cyclohexane	7.701	56	177913	19.364	ug/l	94
32) 1,1,1-Trichloroethane	7.616	97	183801	20.600	ug/l	99
36) 1,1-Dichloropropene	7.835	75	148907	20.451	ug/l	99
37) Ethyl Acetate	6.982	43	57496	18.798	ug/l	98
38) Carbon Tetrachloride	7.817	117	166508	21.055	ug/l	97
39) Methylcyclohexane	9.109	83	193301	20.160	ug/l	98
40) Benzene	8.079	78	458105	20.413	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.219	41	32033m	18.147	ug/l	
42) 1,2-Dichloroethane	8.158	62	117549	20.140	ug/l	100
43) Isopropyl Acetate	8.195	43	110864	17.933	ug/l #	82
44) Trichloroethene	8.865	130	123853	21.356	ug/l	99
45) 1,2-Dichloropropane	9.140	63	104138	20.167	ug/l	98
46) Dibromomethane	9.231	93	60685	20.476	ug/l	100
47) Bromodichloromethane	9.426	83	154294	20.232	ug/l	100
48) Methyl methacrylate	9.219	41	53715	18.158	ug/l	96
49) 1,4-Dioxane	9.231	88	12643	363.816	ug/l	96
51) 4-Methyl-2-Pentanone	9.999	43	293540	92.052	ug/l	100
52) Toluene	10.170	92	297560	20.876	ug/l	100
53) t-1,3-Dichloropropene	10.390	75	137297	19.881	ug/l	100
54) cis-1,3-Dichloropropene	9.853	75	162867	19.944	ug/l	100
55) 1,1,2-Trichloroethane	10.572	97	80753	20.362	ug/l	96
56) Ethyl methacrylate	10.438	69	96390	18.994	ug/l	97
57) 1,3-Dichloropropane	10.719	76	134934	20.062	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.707	63	226996	94.830	ug/l	97
59) 2-Hexanone	10.761	43	207790	95.694	ug/l	99
60) Dibromochloromethane	10.908	129	106952	20.438	ug/l	99
61) 1,2-Dibromoethane	11.018	107	74607	20.016	ug/l	99
64) Tetrachloroethene	10.646	164	150882	23.712	ug/l	99
65) Chlorobenzene	11.438	112	321766	20.934	ug/l	97
66) 1,1,1,2-Tetrachloroethane	11.517	131	107743	20.654	ug/l	98
67) Ethyl Benzene	11.517	91	536453	20.281	ug/l	98
68) m/p-Xylenes	11.627	106	426776	41.310	ug/l	99
69) o-Xylene	11.950	106	198012	20.464	ug/l	99
70) Styrene	11.969	104	328722	20.774	ug/l	99
71) Bromoform	12.127	173	59992	19.677	ug/l #	98
73) Isopropylbenzene	12.255	105	515167	20.772	ug/l	100
74) N-amyl acetate	12.066	43	95001	18.063	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.505	83	76121	17.976	ug/l	97
76) 1,2,3-Trichloropropane	12.554	75	70701m	20.848	ug/l	
77) Bromobenzene	12.529	156	122602	20.721	ug/l	98
78) n-propylbenzene	12.590	91	624469	21.149	ug/l	100
79) 2-Chlorotoluene	12.676	91	347424	20.536	ug/l	99
80) 1,3,5-Trimethylbenzene	12.731	105	419347	20.922	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.304	75	26461	18.888	ug/l	99
82) 4-Chlorotoluene	12.773	91	359924	20.508	ug/l	98
83) tert-Butylbenzene	12.993	119	378882	20.929	ug/l	99
84) 1,2,4-Trimethylbenzene	13.042	105	418193	20.959	ug/l	99
85) sec-Butylbenzene	13.170	105	557566	20.967	ug/l	100
86) p-Isopropyltoluene	13.292	119	464251	21.032	ug/l	100
87) 1,3-Dichlorobenzene	13.285	146	242365	20.772	ug/l	99
88) 1,4-Dichlorobenzene	13.365	146	238568	20.612	ug/l	98
89) n-Butylbenzene	13.615	91	426296	21.027	ug/l	99
90) Hexachloroethane	13.877	117	96348	21.322	ug/l	98
91) 1,2-Dichlorobenzene	13.657	146	210993	20.619	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.267	75	12876	19.529	ug/l	94
93) 1,2,4-Trichlorobenzene	14.919	180	122842	20.300	ug/l	98
94) Hexachlorobutadiene	15.023	225	73904	20.784	ug/l	99
95) Naphthalene	15.139	128	200198	19.402	ug/l	100
96) 1,2,3-Trichlorobenzene	15.322	180	104481	20.037	ug/l	100

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

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