

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120825\
 Data File : VX048742.D
 Acq On : 08 Dec 2025 09:20
 Operator : JC/MD
 Sample : VSTDCCC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/09/2025
 Supervised By : Mahesh Dadoda 12/09/2025

Quant Time: Dec 09 04:05:01 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.531	168	174813	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.739	114	271670	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	259893	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.000	152	132353	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	116232	49.538	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery = 99.080%			
35) Dibromofluoromethane	5.361	113	93905	50.202	ug/l	-0.01
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.400%			
50) Toluene-d8	8.628	98	330988	50.480	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery = 100.960%			
62) 4-Bromofluorobenzene	11.061	95	122254	54.070	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery = 108.140%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.172	85	109463	61.456	ug/l	98
3) Chloromethane	1.300	50	112158	49.901	ug/l	99
4) Vinyl Chloride	1.380	62	117239	48.978	ug/l	97
5) Bromomethane	1.611	94	79697	53.876	ug/l	97
6) Chloroethane	1.691	64	70486	47.313	ug/l	96
7) Trichlorofluoromethane	1.892	101	168328	49.064	ug/l	95
8) Diethyl Ether	2.130	74	68655	50.137	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	96741	48.641	ug/l	99
10) Methyl Iodide	2.453	142	142606	50.365	ug/l	98
11) Tert butyl alcohol	2.934	59	104607	276.145	ug/l	99
12) 1,1-Dichloroethene	2.319	96	95593	47.091	ug/l	98
13) Acrolein	2.233	56	122007	320.155	ug/l	100
14) Allyl chloride	2.660	41	182879	53.660	ug/l	96
15) Acrylonitrile	3.050	53	323941	274.443	ug/l	99
16) Acetone	2.367	43	266788	297.020	ug/l	97
17) Carbon Disulfide	2.514	76	276616	46.924	ug/l	99
18) Methyl Acetate	2.690	43	147186	58.240	ug/l	98
19) Methyl tert-butyl Ether	3.099	73	346867	52.505	ug/l	98
20) Methylene Chloride	2.782	84	106567	47.466	ug/l	97
21) trans-1,2-Dichloroethene	3.087	96	96842	46.743	ug/l	97
22) Diisopropyl ether	3.745	45	361202	56.708	ug/l	97
23) Vinyl Acetate	3.702	43	1644500	307.270	ug/l	97
24) 1,1-Dichloroethane	3.599	63	189815	53.440	ug/l	99
25) 2-Butanone	4.525	43	409699	309.048	ug/l	95
26) 2,2-Dichloropropane	4.452	77	163755	52.104	ug/l	99
27) cis-1,2-Dichloroethene	4.471	96	122467	52.383	ug/l	94
28) Bromochloromethane	4.879	49	84093	48.303	ug/l	89
29) Tetrahydrofuran	4.971	42	292738	289.193	ug/l	96
30) Chloroform	5.068	83	201485	52.941	ug/l	100
31) Cyclohexane	5.452	56	152479	48.082	ug/l	96
32) 1,1,1-Trichloroethane	5.361	97	170606	50.030	ug/l	97
36) 1,1-Dichloropropene	5.672	75	129381	50.500	ug/l	99
37) Ethyl Acetate	4.684	43	200103	65.365	ug/l	97
38) Carbon Tetrachloride	5.659	117	151224	52.111	ug/l	93
39) Methylcyclohexane	7.360	83	159338	52.596	ug/l	99
40) Benzene	6.013	78	391521	51.550	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.891	41	87479	62.805	ug/l	97
42) 1,2-Dichloroethane	6.062	62	151479	56.351	ug/l	96
43) Isopropyl Acetate	6.312	43	269086	58.049	ug/l	96
44) Trichloroethene	7.104	130	100636	50.782	ug/l	93
45) 1,2-Dichloropropane	7.409	63	103675	54.615	ug/l	97
46) Dibromomethane	7.562	93	81979	56.948	ug/l	100
47) Bromodichloromethane	7.799	83	161338	53.756	ug/l	100
48) Methyl methacrylate	7.671	41	129988	55.745	ug/l	98
49) 1,4-Dioxane	7.641	88	41910	1306.826	ug/l	93
51) 4-Methyl-2-Pentanone	8.549	43	839339	291.714	ug/l	99
52) Toluene	8.702	92	259442	56.649	ug/l	100
53) t-1,3-Dichloropropene	8.958	75	166878	58.445	ug/l	99
54) cis-1,3-Dichloropropene	8.348	75	176260	57.439	ug/l	96
55) 1,1,2-Trichloroethane	9.134	97	105645	57.331	ug/l	100
56) Ethyl methacrylate	9.098	69	176042	61.034	ug/l	97
57) 1,3-Dichloropropane	9.287	76	173763	56.709	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.220	63	502570	322.382	ug/l	99
59) 2-Hexanone	9.409	43	605996	300.030	ug/l	99
60) Dibromochloromethane	9.500	129	132496	58.148	ug/l	99
61) 1,2-Dibromoethane	9.592	107	115535	57.930	ug/l	100
64) Tetrachloroethene	9.256	164	89617	47.307	ug/l	97
65) Chlorobenzene	10.061	112	287596	50.555	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.140	131	103746	50.988	ug/l	99
67) Ethyl Benzene	10.177	91	476354	51.315	ug/l	99
68) m/p-Xylenes	10.281	106	368936	102.029	ug/l	98
69) o-Xylene	10.622	106	180357	53.228	ug/l	98
70) Styrene	10.634	104	312915	53.795	ug/l	99
71) Bromoform	10.780	173	97762	53.817	ug/l	99
73) Isopropylbenzene	10.945	105	456673	51.202	ug/l	99
74) N-amyl acetate	10.823	43	218050	56.266	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.195	83	161398	53.631	ug/l	99
76) 1,2,3-Trichloropropane	11.219	75	132368m	53.696	ug/l	
77) Bromobenzene	11.177	156	122590	51.496	ug/l	96
78) n-propylbenzene	11.286	91	530512	51.357	ug/l	98
79) 2-Chlorotoluene	11.347	91	320717	50.915	ug/l	97
80) 1,3,5-Trimethylbenzene	11.433	105	379802	51.805	ug/l	100
81) trans-1,4-Dichloro-2-b...	11.000	75	58364	56.240	ug/l #	54
82) 4-Chlorotoluene	11.433	91	380068	51.705	ug/l	98
83) tert-Butylbenzene	11.695	119	387442	50.861	ug/l	98
84) 1,2,4-Trimethylbenzene	11.732	105	386338	52.241	ug/l	98
85) sec-Butylbenzene	11.872	105	471593	51.082	ug/l	99
86) p-Isopropyltoluene	11.988	119	409455	51.886	ug/l	99
87) 1,3-Dichlorobenzene	11.951	146	224294	51.109	ug/l	100
88) 1,4-Dichlorobenzene	12.018	146	227243	50.109	ug/l	99
89) n-Butylbenzene	12.311	91	368851	49.922	ug/l	99
90) Hexachloroethane	12.518	117	77355	48.028	ug/l	96
91) 1,2-Dichlorobenzene	12.317	146	216556	50.899	ug/l	100
92) 1,2-Dibromo-3-Chloropr...	12.920	75	37796	51.605	ug/l	99
93) 1,2,4-Trichlorobenzene	13.567	180	144749	51.512	ug/l	99
94) Hexachlorobutadiene	13.707	225	55748	47.962	ug/l	96
95) Naphthalene	13.756	128	458027	56.250	ug/l	99
96) 1,2,3-Trichlorobenzene	13.938	180	140730	54.305	ug/l	97

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

