

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU111125\
 Data File : VU063703.D
 Acq On : 11 Nov 2025 14:07
 Operator : MD/SY
 Sample : Q3530-07
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2025

Manual Integrations
 APPROVED

Reviewed By :John Carlone 11/12/2025
 Supervised By :Mahesh Dadoda 11/12/2025

Quant Time: Nov 12 02:26:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\82U111025W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 12 02:25:49 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.344	168	192803	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.222	114	317337	50.000	ug/l	0.00
63) Chlorobenzene-d5	9.393	117	300659	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.791	152	144844	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.676	65	137258	48.192	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	96.380%		
35) Dibromofluoromethane	5.261	113	106878	48.086	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.180%		
50) Toluene-d8	7.872	98	369459	46.270	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	92.540%		
62) 4-Bromofluorobenzene	10.611	95	153559	46.490	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	92.980%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.370	85	109	0.094	ug/l #	41
3) Chloromethane	1.509	50	559m	0.413	ug/l	
4) Vinyl Chloride	1.589	62	446	0.311	ug/l	89
5) Bromomethane	1.840	94	720	0.716	ug/l	97
6) Chloroethane	1.917	64	176	0.163	ug/l #	1
7) Trichlorofluoromethane	2.126	101	381	0.139	ug/l #	76
8) Diethyl Ether	2.367	74	188m	0.161	ug/l	
9) 1,1,2-Trichlorotrifluo...	2.560	101	273	0.157	ug/l #	49
10) Methyl Iodide	2.708	142	585	0.337	ug/l #	71
11) Tert butyl alcohol	3.164	59	1735	2.611	ug/l #	73
12) 1,1-Dichloroethene	2.557	96	408	0.272	ug/l	94
13) Acrolein	2.464	56	529m	9.957	ug/l	
14) Allyl chloride	2.898	41	946	0.338	ug/l #	61
15) Acrylonitrile	3.325	53	1097m	0.806	ug/l	
16) Acetone	2.608	43	3281	1.761	ug/l	97
17) Carbon Disulfide	2.769	76	1247	0.565	ug/l #	76
18) Methyl Acetate	2.930	43	637m	0.144	ug/l	
19) Methyl tert-butyl Ether	3.345	73	746	0.110	ug/l #	54
20) Methylene Chloride	3.020	84	4368	2.057	ug/l	96
21) trans-1,2-Dichloroethene	3.332	96	598	0.389	ug/l #	84
22) Diisopropyl ether	3.981	45	903m	0.147	ug/l	
23) Vinyl Acetate	3.988	43	2361m	0.562	ug/l	
24) 1,1-Dichloroethane	3.846	63	325	0.092	ug/l #	81
25) 2-Butanone	4.775	43	1872m	0.955	ug/l	
26) 2,2-Dichloropropane	4.644	77	340m	0.111	ug/l	
27) cis-1,2-Dichloroethene	4.650	96	420m	0.187	ug/l	
28) Bromochloromethane	4.959	49	179m	0.126	ug/l	
29) Tetrahydrofuran	5.052	42	1322m	1.159	ug/l	
30) Chloroform	5.058	83	721	0.185	ug/l #	68
31) Cyclohexane	5.338	56	4743	1.891	ug/l #	20
32) 1,1,1-Trichloroethane	5.283	97	329m	0.103	ug/l	
36) 1,1-Dichloropropene	5.496	75	891m	0.394	ug/l	
37) Ethyl Acetate	4.775	43	1895m	0.592	ug/l	
38) Carbon Tetrachloride	5.499	117	518m	0.212	ug/l	
39) Methylcyclohexane	6.737	83	350m	0.136	ug/l	
40) Benzene	5.753	78	1397	0.191	ug/l #	85

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	5.052	41	1161m	0.697	ug/l	
42) 1,2-Dichloroethane	5.769	62	629m	0.218	ug/l	
43) Isopropyl Acetate	5.904	43	734	0.156	ug/l #	60
44) Trichloroethene	6.521	130	730	0.356	ug/l	83
45) 1,2-Dichloropropane	6.772	63	196	0.099	ug/l #	44
46) Dibromomethane	6.904	93	169	0.113	ug/l #	52
47) Bromodichloromethane	7.084	83	435	0.144	ug/l #	73
48) Methyl methacrylate	7.007	41	707m	0.307	ug/l	
49) 1,4-Dioxane	6.978	88	89	1.458	ug/l #	44
51) 4-Methyl-2-Pentanone	7.775	43	6956	1.936	ug/l	97
52) Toluene	7.955	92	1013	0.214	ug/l #	67
53) t-1,3-Dichloropropene	8.196	75	720	0.283	ug/l	90
54) cis-1,3-Dichloropropene	7.598	75	783	0.275	ug/l	90
55) 1,1,2-Trichloroethane	8.383	97	285	0.131	ug/l #	57
56) Ethyl methacrylate	8.322	69	724	0.226	ug/l #	77
57) 1,3-Dichloropropane	8.560	76	637	0.180	ug/l	89
59) 2-Hexanone	8.695	43	9300m	3.475	ug/l	
60) Dibromochloromethane	8.782	129	293	0.129	ug/l	83
61) 1,2-Dibromoethane	8.910	107	353	0.169	ug/l #	65
64) Tetrachloroethene	8.524	164	499	0.257	ug/l #	80
65) Chlorobenzene	9.425	112	1914	0.326	ug/l	100
66) 1,1,1,2-Tetrachloroethane	9.505	131	154	0.077	ug/l #	33
67) Ethyl Benzene	9.556	91	3061	0.313	ug/l	100
68) m/p-Xylenes	9.679	106	2204	0.610	ug/l	100
69) o-Xylene	10.090	106	766m	0.206	ug/l	
70) Styrene	10.103	104	2043	0.341	ug/l	93
71) Bromoform	10.267	173	306	0.190	ug/l #	29
73) Isopropylbenzene	10.463	105	2878	0.316	ug/l	85
74) N-amyl acetate	10.328	43	3038m	0.958	ug/l	
75) 1,1,2,2-Tetrachloroethane	10.756	83	765	0.219	ug/l #	89
76) 1,2,3-Trichloropropane	10.807	75	1091m	0.299	ug/l	
77) Bromobenzene	10.769	156	1139	0.497	ug/l	85
78) n-propylbenzene	10.888	91	5508	0.528	ug/l	96
79) 2-Chlorotoluene	10.965	91	2762	0.409	ug/l	92
80) 1,3,5-Trimethylbenzene	11.071	105	2561	0.336	ug/l	98
82) 4-Chlorotoluene	11.081	91	4225	0.551	ug/l	92
83) tert-Butylbenzene	11.396	119	2430	0.306	ug/l	88
84) 1,2,4-Trimethylbenzene	11.447	105	3090	0.413	ug/l	91
85) sec-Butylbenzene	11.624	105	4841	0.482	ug/l	98
86) p-Isopropyltoluene	11.769	119	4937	0.613	ug/l	92
87) 1,3-Dichlorobenzene	11.730	146	2661	0.619	ug/l	93
88) 1,4-Dichlorobenzene	11.814	146	3431m	0.762	ug/l	
89) n-Butylbenzene	12.193	91	9312	1.258	ug/l	97
90) Hexachloroethane	12.444	117	60	0.049	ug/l #	55
91) 1,2-Dichlorobenzene	12.196	146	2286m	0.532	ug/l	
92) 1,2-Dibromo-3-Chloropr...	12.984	75	106	0.148	ug/l #	23
93) 1,2,4-Trichlorobenzene	13.820	180	4636	1.693	ug/l	94
94) Hexachlorobutadiene	13.994	225	923	0.669	ug/l	93
95) Naphthalene	14.068	128	19423	2.619	ug/l	98
96) 1,2,3-Trichlorobenzene	14.309	180	4562	1.792	ug/l	95

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