

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022125\
 Data File : VX045019.D
 Acq On : 21 Feb 2025 15:38
 Operator : JC/MD
 Sample : Q1168-08 5.0PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT1-2025

Quant Time: Feb 22 01:16:21 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 01:06:36 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 02/24/2025
 Supervised By : Mahesh Dadoda 02/24/2025

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

Internal Standards						
1) Bromochloromethane	4.891	128	17181	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	91718	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	83758	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	49029	29.381	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	97.933%	
60) 4-Bromofluorobenzene	11.079	95	45647	29.157	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	97.200%	
63) Toluene-d8	8.641	98	138790	29.953	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.833%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	7391	5.103	ug/l	89
3) Chloromethane	1.295	50	9727	5.607	ug/l	95
4) Vinyl Chloride	1.374	62	8653	5.169	ug/l	96
5) Bromomethane	1.593	94	3566	6.120	ug/l	95
6) Chloroethane	1.673	64	4849	5.349	ug/l	95
7) Trichlorofluoromethane	1.880	101	11904	5.291	ug/l	98
8) Diethyl Ether	2.130	74	4323	5.079	ug/l	89
9) 1,1,2-Trichlorotrifluo...	2.325	101	7339	5.492	ug/l	97
10) 1,1-Dichloroethene	2.313	96	7154	5.481	ug/l	95
11) Methyl Iodide	2.447	142	6054	4.098	ug/l	97
12) Methyl Acetate	2.697	43	8333	5.498	ug/l	97
13) Acrolein	2.227	56	8951	29.465	ug/l	96
14) Acrylonitrile	3.063	53	20831	28.139	ug/l	99
15) Acetone	2.374	58	5370	26.449	ug/l	92
16) Carbon Disulfide	2.508	76	19312	5.217	ug/l	98
17) Allyl chloride	2.660	41	12799	5.243	ug/l	95
18) Methylene Chloride	2.782	84	8038	5.475	ug/l	93
19) trans-1,2-Dichloroethene	3.087	96	7176	5.435	ug/l	90
20) Diisopropyl ether	3.751	45	24795	5.286	ug/l	90
21) 1,1-Dichloroethane	3.605	63	13742	5.267	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	8226	5.199	ug/l	98
23) tert-Butyl Alcohol	2.953	59	8771m	33.938	ug/l	
24) Methyl tert-Butyl Ether	3.105	73	22553	5.294	ug/l	98
25) Chloroform	5.087	83	13765	5.463	ug/l	95
26) Cyclohexane	5.465	56	12502	5.192	ug/l #	95
29) 1,1-Dichloropropene	5.690	75	9236	5.474	ug/l	96
30) 2-Butanone	4.556	43	27372	28.088	ug/l #	95
31) 2,2-Dichloropropane	4.465	77	9602	5.033	ug/l #	79
32) 1,1,1-Trichloroethane	5.373	97	11010	5.386	ug/l #	80
33) Carbon Tetrachloride	5.672	117	9488	5.500	ug/l	95
34) Benzene	6.031	78	28936	5.469	ug/l	97
35) Methacrylonitrile	4.916	41	5587m	5.358	ug/l	
36) 1,2-Dichloroethane	6.086	62	9966	5.502	ug/l #	88
37) Trichloroethene	7.123	130	6546	5.288	ug/l	91
38) Methylcyclohexane	7.373	83	12449	5.495	ug/l	98
39) 1,2-Dichloropropane	7.421	63	7250	5.512	ug/l	96
40) Dibromomethane	7.580	93	5540	5.869	ug/l	94
41) Bromodichloromethane	7.818	83	10106	5.387	ug/l #	97
42) Vinyl Acetate	3.715	43	99671	26.357	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	8861	4.849	ug/l	94
44) Isopropyl Acetate	6.336	43	16178	5.379	ug/l #	88
45) 1,4-Dioxane	7.659	88	3704	118.460	ug/l #	87
46) Methyl methacrylate	7.696	41	8114	5.501	ug/l	89
47) n-amyl Acetate	10.842	43	13082	5.012	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	8292	4.586	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	10094	4.931	ug/l	94
50) 1,1,2-Trichloroethane	9.153	97	6884	5.591	ug/l	91
51) Ethyl methacrylate	9.116	69	9972	5.150	ug/l	97
52) 1,3-Dichloropropane	9.305	76	11905	5.518	ug/l	98
53) Dibromochloromethane	9.519	129	7011	5.149	ug/l	98
54) 1,2-Dibromoethane	9.610	107	6965	5.571	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	24496	24.634	ug/l	99
56) Bromoform	10.799	173	4288	5.025	ug/l	96
58) 4-Methyl-2-Pentanone	8.568	43	53974	28.328	ug/l	100
59) 2-Hexanone	9.427	43	39340	28.566	ug/l	99
61) Tetrachloroethene	9.269	164	5728	5.554	ug/l	83
62) Toluene	8.714	91	30122	5.429	ug/l	99
64) Chlorobenzene	10.073	112	18597	5.409	ug/l	93
65) 1,1,1,2-Tetrachloroethane	10.159	131	5933	5.230	ug/l	97
66) Ethyl Benzene	10.189	91	33235	5.471	ug/l	98
67) m/p-Xylenes	10.299	106	24450	10.803	ug/l	99
68) o-Xylene	10.640	106	12254	5.518	ug/l	98
69) Styrene	10.653	104	18688	5.039	ug/l	97
70) Isopropylbenzene	10.957	105	31655	5.524	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	11277	5.984	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	8581m	5.536	ug/l	
73) Bromobenzene	11.195	156	7537	5.713	ug/l	96
74) n-propylbenzene	11.299	91	35689	5.233	ug/l	99
75) 2-Chlorotoluene	11.360	91	22794	5.529	ug/l	96
76) 1,3,5-Trimethylbenzene	11.451	105	26235	5.549	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	2277	4.367	ug/l	86
78) 4-Chlorotoluene	11.451	91	24557	5.343	ug/l	97
79) tert-butylbenzene	11.713	119	26450	5.553	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	24944	5.267	ug/l	99
81) sec-Butylbenzene	11.890	105	32228	5.391	ug/l	99
82) p-Isopropyltoluene	12.006	119	25283	5.220	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	13170	5.366	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	13098	5.412	ug/l	99
85) n-Butylbenzene	12.329	91	21616	4.887	ug/l	99
86) Hexachloroethane	12.536	117	4373	5.119	ug/l	90
87) 1,2-Dichlorobenzene	12.335	146	13459	5.589	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1740	4.769	ug/l	93
89) 1,2,4-Trichlorobenzene	13.585	180	6708	4.596	ug/l	95
90) Hexachlorobutadiene	13.719	225	3231	5.428	ug/l	97
91) Naphthalene	13.774	128	24574	4.775	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	7278	4.843	ug/l	95

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

