

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022625\
 Data File : VX045055.D
 Acq On : 26 Feb 2025 16:33
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/27/2025
 Supervised By : Mahesh Dadoda 02/27/2025

Quant Time: Feb 27 05:15:20 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

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

Internal Standards						
1) Bromochloromethane	4.897	128	16952	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	6.757	114	90340	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	83437	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	48782	29.628	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.767%		
60) 4-Bromofluorobenzene	11.079	95	47194	30.261	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.867%		
63) Toluene-d8	8.641	98	140254	30.385	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.300%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	23383	16.363	ug/l	96
3) Chloromethane	1.307	50	28184	16.466	ug/l	99
4) Vinyl Chloride	1.374	62	27650	16.741	ug/l	95
5) Bromomethane	1.599	94	14873	25.870	ug/l	97
6) Chloroethane	1.685	64	16973	18.974	ug/l	97
7) Trichlorofluoromethane	1.886	101	40918	18.433	ug/l	92
8) Diethyl Ether	2.130	74	14607	17.392	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.325	101	23776	18.034	ug/l	99
10) 1,1-Dichloroethene	2.312	96	23122	17.955	ug/l	90
11) Methyl Iodide	2.447	142	24875	17.067	ug/l	96
12) Methyl Acetate	2.703	43	31916	21.343	ug/l	99
13) Acrolein	2.233	56	37685	125.726	ug/l	100
14) Acrylonitrile	3.056	53	71425	97.785	ug/l	98
15) Acetone	2.373	58	19036	95.025	ug/l	99
16) Carbon Disulfide	2.508	76	59451	16.276	ug/l	99
17) Allyl chloride	2.660	41	42013	17.443	ug/l	98
18) Methylene Chloride	2.782	84	25230	17.419	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	23065	17.703	ug/l	99
20) Diisopropyl ether	3.751	45	80260	17.341	ug/l	98
21) 1,1-Dichloroethane	3.605	63	45263	17.584	ug/l	100
22) cis-1,2-Dichloroethene	4.477	96	27177	17.407	ug/l	99
23) tert-Butyl Alcohol	2.953	59	24650	96.668	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	73549	17.499	ug/l	99
25) Chloroform	5.074	83	44617	17.945	ug/l	97
26) Cyclohexane	5.458	56	40859	17.197	ug/l #	97
29) 1,1-Dichloropropene	5.678	75	29736	17.894	ug/l	99
30) 2-Butanone	4.550	43	100519	104.723	ug/l	100
31) 2,2-Dichloropropane	4.471	77	32431	17.259	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	36738	18.246	ug/l	99
33) Carbon Tetrachloride	5.666	117	31826	18.729	ug/l	97
34) Benzene	6.031	78	96387	18.495	ug/l	96
35) Methacrylonitrile	4.910	41	19740	19.218	ug/l	91
36) 1,2-Dichloroethane	6.080	62	34544	19.361	ug/l	97
37) Trichloroethene	7.123	130	22172	18.186	ug/l	97
38) Methylcyclohexane	7.373	83	40030	17.940	ug/l	97
39) 1,2-Dichloropropane	7.421	63	24114	18.612	ug/l	99
40) Dibromomethane	7.574	93	17072	18.362	ug/l	96
41) Bromodichloromethane	7.818	83	35404	19.159	ug/l	100
42) Vinyl Acetate	3.715	43	335315	90.023	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	35952	19.973	ug/l	94
44) Isopropyl Acetate	6.330	43	55943	18.883	ug/l	99
45) 1,4-Dioxane	7.653	88	12354	401.129	ug/l	96
46) Methyl methacrylate	7.690	41	26023	17.913	ug/l	96
47) n-amyl Acetate	10.841	43	47687	18.549	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	30428	17.083	ug/l	99
49) cis-1,3-Dichloropropene	8.360	75	35212	17.464	ug/l	100
50) 1,1,2-Trichloroethane	9.147	97	23850	19.666	ug/l	94
51) Ethyl methacrylate	9.110	69	33339	17.480	ug/l	99
52) 1,3-Dichloropropane	9.305	76	40564	19.089	ug/l	99
53) Dibromochloromethane	9.518	129	25514	19.022	ug/l	96
54) 1,2-Dibromoethane	9.604	107	23408	19.008	ug/l	99
55) 2-Chloroethyl vinyl ether	8.232	63	97635	99.683	ug/l	99
56) Bromoform	10.799	173	16630	19.786	ug/l	98
58) 4-Methyl-2-Pentanone	8.567	43	195692	103.103	ug/l	99
59) 2-Hexanone	9.427	43	144183	105.097	ug/l	99
61) Tetrachloroethene	9.269	164	19469	18.949	ug/l	95
62) Toluene	8.714	91	100712	18.221	ug/l	97
64) Chlorobenzene	10.073	112	63298	18.481	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	20323	17.983	ug/l	96
66) Ethyl Benzene	10.189	91	111285	18.391	ug/l	99
67) m/p-Xylenes	10.299	106	83297	36.946	ug/l	99
68) o-Xylene	10.640	106	42057	19.012	ug/l	95
69) Styrene	10.652	104	68939	18.659	ug/l	99
70) Isopropylbenzene	10.957	105	107193	18.778	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	37412	19.930	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	30217m	19.571	ug/l	
73) Bromobenzene	11.195	156	24702	18.797	ug/l	97
74) n-propylbenzene	11.299	91	125284	18.442	ug/l	99
75) 2-Chlorotoluene	11.360	91	77381	18.841	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	87828	18.649	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	9712	18.696	ug/l	89
78) 4-Chlorotoluene	11.451	91	85215	18.613	ug/l	99
79) tert-butylbenzene	11.713	119	89645	18.892	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	87873	18.627	ug/l	98
81) sec-Butylbenzene	11.890	105	112911	18.960	ug/l	100
82) p-Isopropyltoluene	12.006	119	92010	19.068	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	45820	18.740	ug/l	99
84) 1,4-Dichlorobenzene	12.036	146	45686	18.950	ug/l	98
85) n-Butylbenzene	12.329	91	79606	18.066	ug/l	99
86) Hexachloroethane	12.536	117	16091	18.909	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	46554	19.405	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	6919	19.037	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	26534	18.248	ug/l	96
90) Hexachlorobutadiene	13.719	225	11687	19.709	ug/l	99
91) Naphthalene	13.774	128	93361	18.209	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	26596	17.767	ug/l	99

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

