

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031425\
 Data File : VX045285.D
 Acq On : 14 Mar 2025 10:17
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/18/2025
 Supervised By : Mahesh Dadoda 03/18/2025

Quant Time: Mar 15 03:51:49 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	4.885	128	16402	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	86549	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	77791	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	51646	32.419	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.067%			
60) 4-Bromofluorobenzene	11.079	95	44147	30.362	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.200%			
63) Toluene-d8	8.641	98	133493	31.019	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.400%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	27025	19.545	ug/l	98
3) Chloromethane	1.307	50	29430	17.771	ug/l	98
4) Vinyl Chloride	1.368	62	25739	16.107	ug/l	99
5) Bromomethane	1.593	94	11708	21.048	ug/l	99
6) Chloroethane	1.673	64	15010	17.343	ug/l	96
7) Trichlorofluoromethane	1.874	101	38646	17.994	ug/l	95
8) Diethyl Ether	2.130	74	12991	15.986	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.319	101	24758	19.409	ug/l	98
10) 1,1-Dichloroethene	2.307	96	23275	18.680	ug/l	84
11) Methyl Iodide	2.441	142	27786	19.703	ug/l	96
12) Methyl Acetate	2.703	43	41826	28.908	ug/l	99
13) Acrolein	2.233	56	22756	78.465	ug/l	97
14) Acrylonitrile	3.056	53	75382	106.663	ug/l	99
15) Acetone	2.380	58	21525	111.052	ug/l	97
16) Carbon Disulfide	2.502	76	56436	15.969	ug/l	98
17) Allyl chloride	2.654	41	43404	18.625	ug/l	99
18) Methylene Chloride	2.782	84	27392	19.546	ug/l	90
19) trans-1,2-Dichloroethene	3.081	96	23037	18.275	ug/l	98
20) Diisopropyl ether	3.751	45	83561	18.659	ug/l	93
21) 1,1-Dichloroethane	3.599	63	47024	18.881	ug/l	98
22) cis-1,2-Dichloroethene	4.477	96	27810	18.410	ug/l	97
23) tert-Butyl Alcohol	2.965	59	22972	93.108	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	76236	18.747	ug/l	97
25) Chloroform	5.080	83	48032	19.966	ug/l	100
26) Cyclohexane	5.458	56	40980	17.826	ug/l #	99
29) 1,1-Dichloropropene	5.684	75	30547	19.187	ug/l	98
30) 2-Butanone	4.550	43	107633	117.046	ug/l	99
31) 2,2-Dichloropropane	4.465	77	31898	17.719	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	39099	20.269	ug/l	96
33) Carbon Tetrachloride	5.660	117	33104	20.334	ug/l	94
34) Benzene	6.032	78	98293	19.687	ug/l	97
35) Methacrylonitrile	4.916	41	21961	22.317	ug/l	95
36) 1,2-Dichloroethane	6.080	62	37507	21.942	ug/l #	86
37) Trichloroethene	7.123	130	22160	18.972	ug/l	96
38) Methylcyclohexane	7.373	83	39538	18.496	ug/l	99
39) 1,2-Dichloropropane	7.422	63	25024	20.160	ug/l	98
40) Dibromomethane	7.574	93	18384	20.639	ug/l	98
41) Bromodichloromethane	7.818	83	35564	20.089	ug/l #	98
42) Vinyl Acetate	3.715	43	336824	94.389	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	35536	20.606	ug/l	99
44) Isopropyl Acetate	6.330	43	57025	20.091	ug/l	98
45) 1,4-Dioxane	7.659	88	10767	364.913	ug/l	93
46) Methyl methacrylate	7.690	41	29283	21.040	ug/l	90
47) n-amyl Acetate	10.842	43	47634	19.340	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	30902	18.110	ug/l	100
49) cis-1,3-Dichloropropene	8.360	75	36026	18.650	ug/l	95
50) 1,1,2-Trichloroethane	9.147	97	24020	20.674	ug/l	95
51) Ethyl methacrylate	9.116	69	35672	19.522	ug/l	98
52) 1,3-Dichloropropane	9.305	76	42035	20.648	ug/l	99
53) Dibromochloromethane	9.519	129	26379	20.529	ug/l	97
54) 1,2-Dibromoethane	9.604	107	23922	20.276	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	93558	99.705	ug/l	100
56) Bromoform	10.799	173	16604	20.621	ug/l	98
58) 4-Methyl-2-Pentanone	8.568	43	210011	118.678	ug/l	97
59) 2-Hexanone	9.427	43	151320	118.305	ug/l	99
61) Tetrachloroethene	9.269	164	20203	21.091	ug/l	98
62) Toluene	8.714	91	102478	19.886	ug/l	97
64) Chlorobenzene	10.073	112	63738	19.960	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.159	131	21469	20.375	ug/l	99
66) Ethyl Benzene	10.189	91	112344	19.913	ug/l	99
67) m/p-Xylenes	10.299	106	82923	39.449	ug/l	98
68) o-Xylene	10.640	106	40626	19.698	ug/l	98
69) Styrene	10.653	104	67365	19.557	ug/l	98
70) Isopropylbenzene	10.957	105	108381	20.364	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.207	83	39996	22.853	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	33154m	23.032	ug/l	
73) Bromobenzene	11.195	156	24622	20.096	ug/l	98
74) n-propylbenzene	11.299	91	126506	19.974	ug/l	100
75) 2-Chlorotoluene	11.360	91	77599	20.266	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	88277	20.105	ug/l	99
77) t-1,4-Dichloro-2-butene	11.012	75	9226	19.050	ug/l	73
78) 4-Chlorotoluene	11.451	91	87449	20.488	ug/l	98
79) tert-butylbenzene	11.713	119	89097	20.139	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	86841	19.744	ug/l	98
81) sec-Butylbenzene	11.890	105	112619	20.283	ug/l	99
82) p-Isopropyltoluene	12.006	119	92660	20.597	ug/l	99
83) 1,3-Dichlorobenzene	11.963	146	44474	19.509	ug/l	96
84) 1,4-Dichlorobenzene	12.037	146	46066	20.495	ug/l	99
85) n-Butylbenzene	12.329	91	80698	19.643	ug/l	99
86) Hexachloroethane	12.536	117	15467	19.495	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	46617	20.841	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	7662	22.612	ug/l	94
89) 1,2,4-Trichlorobenzene	13.585	180	25942	19.136	ug/l	98
90) Hexachlorobutadiene	13.719	225	11256	20.360	ug/l	96
91) Naphthalene	13.774	128	94674	19.806	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	26866	19.250	ug/l	99

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

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