

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030425\
 Data File : VX045119.D
 Acq On : 04 Mar 2025 08:46
 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

Quant Time: Mar 05 00:42:59 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

03/05/2025
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	4.891	128	17184	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	86920	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	82480	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	48247	28.908	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.367%		
60) 4-Bromofluorobenzene	11.079	95	46258	30.005	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.033%		
63) Toluene-d8	8.641	98	135329	29.658	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.867%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	28199	19.466	ug/l	93
3) Chloromethane	1.294	50	34345	19.795	ug/l	95
4) Vinyl Chloride	1.374	62	30032	17.938	ug/l	99
5) Bromomethane	1.593	94	12689	21.774	ug/l	98
6) Chloroethane	1.672	64	17395	19.184	ug/l	95
7) Trichlorofluoromethane	1.874	101	43207	19.202	ug/l	98
8) Diethyl Ether	2.130	74	15862	18.631	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.325	101	26451	19.792	ug/l	98
10) 1,1-Dichloroethene	2.312	96	25685	19.676	ug/l	95
11) Methyl Iodide	2.447	142	27359	18.518	ug/l	99
12) Methyl Acetate	2.697	43	34564	22.802	ug/l	99
13) Acrolein	2.233	56	32043	105.460	ug/l	99
14) Acrylonitrile	3.056	53	73351	99.066	ug/l	99
15) Acetone	2.373	58	21685	106.787	ug/l	96
16) Carbon Disulfide	2.501	76	64760	17.490	ug/l	98
17) Allyl chloride	2.654	41	46009	18.844	ug/l	97
18) Methylene Chloride	2.782	84	29095	19.816	ug/l	98
19) trans-1,2-Dichloroethene	3.081	96	24945	18.888	ug/l	97
20) Diisopropyl ether	3.751	45	89171	19.006	ug/l	99
21) 1,1-Dichloroethane	3.599	63	49611	19.013	ug/l	97
22) cis-1,2-Dichloroethene	4.477	96	29863	18.869	ug/l	99
23) tert-Butyl Alcohol	2.965	59	23999	92.844	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	79696	18.706	ug/l	100
25) Chloroform	5.080	83	49083	19.475	ug/l	96
26) Cyclohexane	5.458	56	44905	18.644	ug/l #	98
29) 1,1-Dichloropropene	5.684	75	33410	20.895	ug/l	99
30) 2-Butanone	4.550	43	103164	111.707	ug/l #	94
31) 2,2-Dichloropropane	4.465	77	35917	19.866	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	40686	21.001	ug/l	98
33) Carbon Tetrachloride	5.672	117	35113	21.476	ug/l	97
34) Benzene	6.025	78	104579	20.857	ug/l	96
35) Methacrylonitrile	4.910	41	21387	21.641	ug/l	97
36) 1,2-Dichloroethane	6.074	62	37568	21.884	ug/l	98
37) Trichloroethene	7.116	130	24363	20.769	ug/l	97
38) Methylcyclohexane	7.373	83	44290	20.630	ug/l	98
39) 1,2-Dichloropropane	7.421	63	25872	20.754	ug/l	99
40) Dibromomethane	7.574	93	19169	21.429	ug/l	100
41) Bromodichloromethane	7.818	83	37991	21.368	ug/l	99
42) Vinyl Acetate	3.715	43	358394	100.005	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	35995	20.783	ug/l	99
44) Isopropyl Acetate	6.330	43	58408	20.491	ug/l	100
45) 1,4-Dioxane	7.653	88	12252	413.470	ug/l	97
46) Methyl methacrylate	7.690	41	29891	21.385	ug/l	99
47) n-amyl Acetate	10.841	43	50529	20.428	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	32903	19.200	ug/l	100
49) cis-1,3-Dichloropropene	8.360	75	39108	20.159	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	25245	21.636	ug/l	97
51) Ethyl methacrylate	9.110	69	37249	20.298	ug/l	97
52) 1,3-Dichloropropane	9.305	76	44187	21.613	ug/l	100
53) Dibromochloromethane	9.518	129	27438	21.262	ug/l	93
54) 1,2-Dibromoethane	9.604	107	25490	21.513	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	96037	101.910	ug/l	99
56) Bromoform	10.799	173	17120	21.171	ug/l	98
58) 4-Methyl-2-Pentanone	8.567	43	204690	109.095	ug/l	99
59) 2-Hexanone	9.427	43	148213	109.288	ug/l	99
61) Tetrachloroethene	9.269	164	21615	21.282	ug/l	89
62) Toluene	8.714	91	112982	20.678	ug/l	97
64) Chlorobenzene	10.073	112	69807	20.618	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	22959	20.551	ug/l	99
66) Ethyl Benzene	10.189	91	122645	20.503	ug/l	97
67) m/p-Xylenes	10.299	106	92972	41.715	ug/l	99
68) o-Xylene	10.640	106	45602	20.854	ug/l	99
69) Styrene	10.652	104	76837	21.039	ug/l	100
70) Isopropylbenzene	10.957	105	117548	20.830	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	40059	21.588	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	32023m	20.981	ug/l	
73) Bromobenzene	11.195	156	27867	21.451	ug/l	96
74) n-propylbenzene	11.299	91	138877	20.680	ug/l	99
75) 2-Chlorotoluene	11.360	91	85432	21.043	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	97729	20.992	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	9691	18.872	ug/l	88
78) 4-Chlorotoluene	11.451	91	93706	20.706	ug/l	99
79) tert-butylbenzene	11.713	119	99721	21.259	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	98635	21.151	ug/l	99
81) sec-Butylbenzene	11.890	105	124020	21.067	ug/l	99
82) p-Isopropyltoluene	12.006	119	101826	21.348	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	51379	21.257	ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	49963	20.965	ug/l	99
85) n-Butylbenzene	12.329	91	89487	20.544	ug/l	100
86) Hexachloroethane	12.536	117	17370	20.648	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	51344	21.650	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	7303	20.327	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	29075	20.228	ug/l	99
90) Hexachlorobutadiene	13.725	225	12566	21.437	ug/l	96
91) Naphthalene	13.774	128	103981	20.516	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	29671	20.051	ug/l	98

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

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