

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020725\
 Data File : VX044858.D
 Acq On : 07 Feb 2025 11:01
 Operator : JC/MD
 Sample : VX0207WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0207WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/10/2025
 Supervised By : Mahesh Dadoda 02/10/2025

Quant Time: Feb 07 22:12:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 17 01:21:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	19387	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	108776	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	100274	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	54944	29.357	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.867%		
60) 4-Bromofluorobenzene	11.079	95	56701	29.112	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.033%		
63) Toluene-d8	8.641	98	159762	29.293	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.633%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	33152	19.233	ug/l	99
3) Chloromethane	1.307	50	38966	21.490	ug/l	100
4) Vinyl Chloride	1.374	62	37050	20.884	ug/l	95
5) Bromomethane	1.593	94	11280	26.308	ug/l	98
6) Chloroethane	1.666	64	16532	58.771	ug/l	98
7) Trichlorofluoromethane	1.874	101	50189	25.832	ug/l	99
8) Diethyl Ether	2.130	74	18178	24.253	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.319	101	30827	22.147	ug/l	98
10) 1,1-Dichloroethene	2.313	96	29538	20.627	ug/l	96
11) Methyl Iodide	2.441	142	40268	20.292	ug/l	98
12) Methyl Acetate	2.703	43	56433	26.994	ug/l	97
13) Acrolein	2.233	56	26121	112.982	ug/l	95
14) Acrylonitrile	3.062	53	94236	123.702	ug/l	99
15) Acetone	2.380	58	24954	122.075	ug/l	93
16) Carbon Disulfide	2.502	76	76823	19.304	ug/l	99
17) Allyl chloride	2.654	41	55543	21.508	ug/l	98
18) Methylene Chloride	2.782	84	34295	21.400	ug/l	99
19) trans-1,2-Dichloroethene	3.081	96	29580	20.774	ug/l	94
20) Diisopropyl ether	3.757	45	107582	22.952	ug/l	98
21) 1,1-Dichloroethane	3.599	63	60203	21.652	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	36815	20.890	ug/l	99
23) tert-Butyl Alcohol	2.977	59	38849	105.436	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	102320	20.622	ug/l	98
25) Chloroform	5.086	83	58027	21.003	ug/l	96
26) Cyclohexane	5.458	56	52961	22.663	ug/l #	95
29) 1,1-Dichloropropene	5.684	75	39119	20.676	ug/l	98
30) 2-Butanone	4.550	43	128179	123.328	ug/l	98
31) 2,2-Dichloropropane	4.458	77	48388	18.481	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	48894	19.500	ug/l	98
33) Carbon Tetrachloride	5.666	117	40187	19.000	ug/l	98
34) Benzene	6.031	78	130454	21.611	ug/l	99
35) Methacrylonitrile	4.916	41	26704	22.989	ug/l	99
36) 1,2-Dichloroethane	6.080	62	43210	20.021	ug/l	98
37) Trichloroethene	7.123	130	29485	20.231	ug/l	98
38) Methylcyclohexane	7.373	83	55315	21.518	ug/l	99
39) 1,2-Dichloropropane	7.427	63	32668	21.702	ug/l	99
40) Dibromomethane	7.574	93	22946	20.504	ug/l	99
41) Bromodichloromethane	7.818	83	45864	19.848	ug/l	95
42) Vinyl Acetate	3.715	43	431167	104.461	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	48725	23.899	ug/l	# 94
44) Isopropyl Acetate	6.336	43	79155	21.611	ug/l	98
45) 1,4-Dioxane	7.659	88	16942	485.762	ug/l	97
46) Methyl methacrylate	7.690	41	36954	20.612	ug/l	98
47) n-amyl Acetate	10.841	43	66257	21.555	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	44947	18.429	ug/l	99
49) cis-1,3-Dichloropropene	8.360	75	51060	19.524	ug/l	97
50) 1,1,2-Trichloroethane	9.147	97	31771	22.044	ug/l	99
51) Ethyl methacrylate	9.116	69	50623	20.219	ug/l	96
52) 1,3-Dichloropropane	9.305	76	53944	21.640	ug/l	98
53) Dibromochloromethane	9.519	129	32787	19.037	ug/l	95
54) 1,2-Dibromoethane	9.604	107	32244	21.163	ug/l	96
55) 2-Chloroethyl vinyl ether	8.238	63	112529	92.629	ug/l	98
56) Bromoform	10.799	173	21858	19.140	ug/l	99
58) 4-Methyl-2-Pentanone	8.567	43	258658	122.376	ug/l	97
59) 2-Hexanone	9.427	43	189107	122.210	ug/l	97
61) Tetrachloroethene	9.269	164	24082	20.021	ug/l	98
62) Toluene	8.714	91	136850	20.726	ug/l	98
64) Chlorobenzene	10.073	112	84973	20.722	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	27909	18.947	ug/l	98
66) Ethyl Benzene	10.189	91	149546	20.754	ug/l	100
67) m/p-Xylenes	10.299	106	113258	42.760	ug/l	98
68) o-Xylene	10.640	106	56236	21.154	ug/l	97
69) Styrene	10.652	104	94141	21.569	ug/l	98
70) Isopropylbenzene	10.957	105	142933	21.388	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	51489	22.919	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	40966m	21.674	ug/l	
73) Bromobenzene	11.195	156	33221	21.339	ug/l	96
74) n-propylbenzene	11.299	91	168630	22.215	ug/l	99
75) 2-Chlorotoluene	11.360	91	103153	21.615	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	118855	21.900	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	15355	17.172	ug/l	95
78) 4-Chlorotoluene	11.451	91	114553	21.785	ug/l	98
79) tert-butylbenzene	11.713	119	121630	21.815	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	118764	21.689	ug/l	97
81) sec-Butylbenzene	11.890	105	152536	22.911	ug/l	98
82) p-Isopropyltoluene	12.006	119	123258	22.495	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	60048	21.715	ug/l	99
84) 1,4-Dichlorobenzene	12.036	146	59871	22.086	ug/l	98
85) n-Butylbenzene	12.329	91	108739	22.894	ug/l	99
86) Hexachloroethane	12.536	117	21606	17.925	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	61041	22.105	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	9695	17.917	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	34997	20.394	ug/l	99
90) Hexachlorobutadiene	13.719	225	14429	21.738	ug/l	97
91) Naphthalene	13.774	128	133421	20.782	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	36308	20.802	ug/l	100

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

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