

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010825\
 Data File : VX044645.D
 Acq On : 09 Jan 2025 05:05
 Operator : JC/MD
 Sample : P4368-08 5.00PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2024

Quant Time: Jan 09 05:44:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jan 09 02:10:37 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John Carlone 01/09/2025
 Supervised By :Semsettin Yesilyurt 01/09/2025

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

Internal Standards						
1) Bromochloromethane	4.897	128	28379	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	150469	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	158643	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	95985	30.893	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.967%			
60) 4-Bromofluorobenzene	11.079	95	82141	27.734	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 92.433%			
63) Toluene-d8	8.647	98	228618	25.774	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 85.900%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	11724	4.575	ug/l	100
3) Chloromethane	1.294	50	13530	5.260	ug/l	100
4) Vinyl Chloride	1.374	62	12912	5.329	ug/l	95
5) Bromomethane	1.599	94	6890	5.642	ug/l	100
6) Chloroethane	1.666	64	8320	6.136	ug/l	89
7) Trichlorofluoromethane	1.874	101	19902	5.344	ug/l	98
8) Diethyl Ether	2.130	74	8120	5.673	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	10414	5.204	ug/l	98
10) 1,1-Dichloroethene	2.312	96	10194	5.181	ug/l	95
11) Methyl Iodide	2.447	142	13613	4.950	ug/l	98
12) Methyl Acetate	2.697	43	14869	5.353	ug/l	96
13) Acrolein	2.233	56	14445	28.339	ug/l	98
14) Acrylonitrile	3.062	53	28035	26.859	ug/l	98
15) Acetone	2.373	58	7560	28.500	ug/l	83
16) Carbon Disulfide	2.508	76	19852	4.602	ug/l	99
17) Allyl chloride	2.660	41	16824	4.959	ug/l	96
18) Methylene Chloride	2.788	84	12100	5.307	ug/l	89
19) trans-1,2-Dichloroethene	3.087	96	10749	5.336	ug/l	87
20) Diisopropyl ether	3.757	45	37360	5.242	ug/l #	83
21) 1,1-Dichloroethane	3.605	63	21511	5.354	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	13487	5.435	ug/l	96
23) tert-Butyl Alcohol	2.995	59	14852m	37.601	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	38005	5.373	ug/l	100
25) Chloroform	5.092	83	23129	5.366	ug/l	97
26) Cyclohexane	5.458	56	16451	5.175	ug/l #	97
29) 1,1-Dichloropropene	5.696	75	13861m	5.111	ug/l	
30) 2-Butanone	4.568	43	37935	26.941	ug/l #	95
31) 2,2-Dichloropropane	4.471	77	16071	5.065	ug/l #	78
32) 1,1,1-Trichloroethane	5.385	97	19158	5.119	ug/l	100
33) Carbon Tetrachloride	5.672	117	14254	4.676	ug/l	96
34) Benzene	6.031	78	45683	5.405	ug/l	95
35) Methacrylonitrile	4.922	41	8735m	5.278	ug/l	
36) 1,2-Dichloroethane	6.086	62	19821	5.612	ug/l #	90
37) Trichloroethene	7.123	130	10979	5.196	ug/l	95
38) Methylcyclohexane	7.379	83	15963	4.723	ug/l	96
39) 1,2-Dichloropropane	7.427	63	10704	5.097	ug/l	97
40) Dibromomethane	7.580	93	9223	5.599	ug/l	94
41) Bromodichloromethane	7.818	83	14698	4.751	ug/l	97
42) Vinyl Acetate	3.721	43	148291	25.035	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	15727m	5.366	ug/l	
44) Isopropyl Acetate	6.336	43	24897	5.111	ug/l #	75
45) 1,4-Dioxane	7.677	88	4093m	119.910	ug/l	
46) Methyl methacrylate	7.702	41	11409	4.804	ug/l	94
47) n-amyl Acetate	10.841	43	19204	4.862	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	13757	4.594	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	15021	4.394	ug/l	92
50) 1,1,2-Trichloroethane	9.147	97	11154	5.341	ug/l	91
51) Ethyl methacrylate	9.116	69	15310	4.800	ug/l	97
52) 1,3-Dichloropropane	9.305	76	21355	5.968	ug/l	99
53) Dibromochloromethane	9.518	129	10738	4.943	ug/l	96
54) 1,2-Dibromoethane	9.610	107	13423	6.247	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	38716	24.635	ug/l	97
56) Bromoform	10.799	173	6001	4.480	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	76285	23.578	ug/l	98
59) 2-Hexanone	9.433	43	55909	25.020	ug/l	95
61) Tetrachloroethene	9.269	164	11190	5.490	ug/l	92
62) Toluene	8.714	91	48486	4.644	ug/l	100
64) Chlorobenzene	10.079	112	35212	5.433	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.159	131	10462	4.755	ug/l	96
66) Ethyl Benzene	10.189	91	55840	4.974	ug/l	100
67) m/p-Xylenes	10.299	106	41395	9.807	ug/l	100
68) o-Xylene	10.640	106	21476	5.213	ug/l	96
69) Styrene	10.652	104	31405	4.590	ug/l	99
70) Isopropylbenzene	10.963	105	51399	4.840	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	17600	5.325	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	15474m	5.367	ug/l	
73) Bromobenzene	11.195	156	12937	5.183	ug/l	99
74) n-propylbenzene	11.305	91	56004	4.653	ug/l	99
75) 2-Chlorotoluene	11.360	91	38091	5.035	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	42167	4.777	ug/l	96
77) t-1,4-Dichloro-2-butene	11.018	75	3245	3.541	ug/l	87
78) 4-Chlorotoluene	11.451	91	40975	4.877	ug/l	97
79) tert-butylbenzene	11.713	119	43462	5.013	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	42683	4.906	ug/l	98
81) sec-Butylbenzene	11.890	105	51501	4.910	ug/l	99
82) p-Isopropyltoluene	12.006	119	39569	4.537	ug/l	96
83) 1,3-Dichlorobenzene	11.969	146	22705	5.027	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	22800	5.047	ug/l	92
85) n-Butylbenzene	12.329	91	31511	4.245	ug/l	100
86) Hexachloroethane	12.536	117	5513	4.012	ug/l	92
87) 1,2-Dichlorobenzene	12.335	146	22618	4.910	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	2799	4.401	ug/l	94
89) 1,2,4-Trichlorobenzene	13.591	180	10889	4.119	ug/l	98
90) Hexachlorobutadiene	13.725	225	5255	4.907	ug/l	92
91) Naphthalene	13.780	128	37534	4.195	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	11828	4.354	ug/l	95

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

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