

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010825\
 Data File : VX044644.D
 Acq On : 09 Jan 2025 04:42
 Operator : JC/MD
 Sample : P4368-07 2.5PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2024

Quant Time: Jan 09 05:21:32 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	29975	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	153927	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	156801	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	97686	29.766	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.233%		
60) 4-Bromofluorobenzene	11.079	95	82645	28.232	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	94.100%		
63) Toluene-d8	8.647	98	235418	26.852	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	89.500%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	6024	2.225	ug/l	93
3) Chloromethane	1.294	50	7075	2.604	ug/l	94
4) Vinyl Chloride	1.374	62	6300	2.462	ug/l	93
5) Bromomethane	1.599	94	3791	2.939	ug/l #	79
6) Chloroethane	1.672	64	4187	2.923	ug/l #	84
7) Trichlorofluoromethane	1.880	101	9286	2.361	ug/l #	84
8) Diethyl Ether	2.129	74	3629	2.400	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.325	101	5595	2.647	ug/l	91
10) 1,1-Dichloroethene	2.312	96	5607	2.698	ug/l #	79
11) Methyl Iodide	2.446	142	6468	2.227	ug/l	94
12) Methyl Acetate	2.703	43	7417	2.528	ug/l	98
13) Acrolein	2.233	56	7338	13.630	ug/l	98
14) Acrylonitrile	3.068	53	12934	11.732	ug/l	97
15) Acetone	2.379	58	3823	13.645	ug/l	96
16) Carbon Disulfide	2.507	76	10203	2.239	ug/l	97
17) Allyl chloride	2.660	41	8497	2.371	ug/l	95
18) Methylene Chloride	2.788	84	6488	2.694	ug/l #	94
19) trans-1,2-Dichloroethene	3.093	96	5314	2.498	ug/l	88
20) Diisopropyl ether	3.757	45	18357	2.438	ug/l #	74
21) 1,1-Dichloroethane	3.605	63	10276	2.422	ug/l	97
22) cis-1,2-Dichloroethene	4.483	96	6827	2.605	ug/l #	91
23) tert-Butyl Alcohol	2.989	59	8802m	21.098	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	17517	2.344	ug/l	99
25) Chloroform	5.092	83	11583m	2.544	ug/l	
26) Cyclohexane	5.470	56	7848m	2.337	ug/l	
29) 1,1-Dichloropropene	5.702	75	7143m	2.574	ug/l	
30) 2-Butanone	4.574	43	18118	12.578	ug/l #	81
31) 2,2-Dichloropropane	4.464	77	7680	2.366	ug/l	100
32) 1,1,1-Trichloroethane	5.373	97	8869	2.316	ug/l	94
33) Carbon Tetrachloride	5.678	117	6848m	2.196	ug/l	
34) Benzene	6.037	78	22337	2.584	ug/l	95
35) Methacrylonitrile	4.928	41	3522m	2.080	ug/l	
36) 1,2-Dichloroethane	6.086	62	9832m	2.721	ug/l	
37) Trichloroethene	7.129	130	5374	2.486	ug/l #	73
38) Methylcyclohexane	7.379	83	7472	2.161	ug/l	94
39) 1,2-Dichloropropane	7.427	63	5418	2.522	ug/l #	87
40) Dibromomethane	7.586	93	4106	2.437	ug/l	96
41) Bromodichloromethane	7.817	83	7419	2.344	ug/l	98
42) Vinyl Acetate	3.721	43	66319	10.945	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	7307m	2.437	ug/l	
44) Isopropyl Acetate	6.348	43	11956	2.399	ug/l	96
45) 1,4-Dioxane	7.677	88	2165	62.002	ug/l #	70
46) Methyl methacrylate	7.708	41	5711	2.351	ug/l	99
47) n-amyl Acetate	10.847	43	9316	2.305	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	6323	2.064	ug/l	93
49) cis-1,3-Dichloropropene	8.372	75	7182	2.054	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	6103	2.857	ug/l	92
51) Ethyl methacrylate	9.116	69	7652	2.345	ug/l	97
52) 1,3-Dichloropropane	9.305	76	10287	2.810	ug/l	96
53) Dibromochloromethane	9.518	129	4862	2.188	ug/l	91
54) 1,2-Dibromoethane	9.610	107	5849	2.661	ug/l	93
55) 2-Chloroethyl vinyl ether	8.244	63	17373	10.806	ug/l	96
56) Bromoform	10.799	173	3112	2.271	ug/l #	86
58) 4-Methyl-2-Pentanone	8.573	43	35259	11.026	ug/l	99
59) 2-Hexanone	9.433	43	25665	11.620	ug/l	94
61) Tetrachloroethene	9.275	164	5752	2.855	ug/l #	84
62) Toluene	8.714	91	23399	2.268	ug/l	100
64) Chlorobenzene	10.079	112	16914	2.641	ug/l	91
65) 1,1,1,2-Tetrachloroethane	10.165	131	5310	2.442	ug/l	95
66) Ethyl Benzene	10.195	91	26547	2.393	ug/l	99
67) m/p-Xylenes	10.299	106	19780	4.741	ug/l	100
68) o-Xylene	10.640	106	10219	2.510	ug/l	98
69) Styrene	10.652	104	15333	2.267	ug/l	98
70) Isopropylbenzene	10.963	105	24550	2.339	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	8578	2.626	ug/l	94
72) 1,2,3-Trichloropropane	11.238	75	7273m	2.552	ug/l	
73) Bromobenzene	11.201	156	6161	2.497	ug/l	96
74) n-propylbenzene	11.305	91	25861	2.174	ug/l	100
75) 2-Chlorotoluene	11.366	91	18474	2.471	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	20161	2.311	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	1443	1.593	ug/l	91
78) 4-Chlorotoluene	11.457	91	18587	2.238	ug/l	96
79) tert-butylbenzene	11.713	119	20496	2.392	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	19292	2.244	ug/l	99
81) sec-Butylbenzene	11.890	105	22571	2.177	ug/l	98
82) p-Isopropyltoluene	12.006	119	17095	1.983	ug/l	97
83) 1,3-Dichlorobenzene	11.969	146	9465	2.120	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	9403	2.106	ug/l	98
85) n-Butylbenzene	12.335	91	12754	1.738	ug/l	94
86) Hexachloroethane	12.536	117	2627	1.934	ug/l	89
87) 1,2-Dichlorobenzene	12.335	146	9387	2.062	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1082	1.721	ug/l	95
89) 1,2,4-Trichlorobenzene	13.591	180	4924	1.884	ug/l	97
90) Hexachlorobutadiene	13.725	225	2102	1.986	ug/l	92
91) Naphthalene	13.774	128	15119	1.710	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	5331	1.986	ug/l	96

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

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