

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051524\
 Data File : VX041542.D
 Acq On : 15 May 2024 16:20
 Operator : JC/MD
 Sample : P2403-08 5.0PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT2-2024

Quant Time: May 16 05:27:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 05:13:13 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 05/16/2024
 Supervised By : Mahesh Dadoda 05/16/2024

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

Internal Standards						
1) Bromochloromethane	4.897	128	28222	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	157335	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	142400	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	66356	29.857	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.533%		
60) 4-Bromofluorobenzene	11.079	95	65315	29.382	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.933%		
63) Toluene-d8	8.647	98	188545	30.888	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.967%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	7251	4.912	ug/l	99
3) Chloromethane	1.294	50	8418	5.208	ug/l	94
4) Vinyl Chloride	1.374	62	8595	5.050	ug/l	99
5) Bromomethane	1.599	94	5474	5.057	ug/l	98
6) Chloroethane	1.666	64	4220	4.904	ug/l	88
7) Trichlorofluoromethane	1.867	101	14087	5.453	ug/l	97
8) Diethyl Ether	2.136	74	4925	5.105	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.319	101	8181	5.461	ug/l	100
10) 1,1-Dichloroethene	2.306	96	7621	5.278	ug/l	95
11) Methyl Iodide	2.447	142	7103m	4.130	ug/l	
12) Methyl Acetate	2.709	43	11703	5.382	ug/l	98
13) Acrolein	2.239	56	4877	18.422	ug/l	92
14) Acrylonitrile	3.075	53	24415	25.536	ug/l	99
15) Acetone	2.392	58	6902	26.943	ug/l	96
16) Carbon Disulfide	2.501	76	14949	4.585	ug/l	100
17) Allyl chloride	2.660	41	12240	4.777	ug/l	96
18) Methylene Chloride	2.788	84	9326	5.431	ug/l	96
19) trans-1,2-Dichloroethene	3.087	96	7714	4.659	ug/l	96
20) Diisopropyl ether	3.770	45	26563	4.934	ug/l	96
21) 1,1-Dichloroethane	3.611	63	14559	4.818	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	9700	4.821	ug/l	98
23) tert-Butyl Alcohol	3.001	59	10321m	25.438	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	26368	4.891	ug/l	99
25) Chloroform	5.092	83	15710	4.880	ug/l	98
26) Cyclohexane	5.464	56	12229	4.853	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	10158	4.881	ug/l	99
30) 2-Butanone	4.580	43	34596	25.043	ug/l	100
31) 2,2-Dichloropropane	4.471	77	11196	4.584	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	13077	4.683	ug/l	100
33) Carbon Tetrachloride	5.672	117	10788	4.515	ug/l	95
34) Benzene	6.037	78	33170	5.046	ug/l	99
35) Methacrylonitrile	4.934	41	6421	4.608	ug/l	93
36) 1,2-Dichloroethane	6.086	62	12261	4.999	ug/l #	86
37) Trichloroethene	7.129	130	9145	4.994	ug/l	99
38) Methylcyclohexane	7.379	83	12910	4.885	ug/l	98
39) 1,2-Dichloropropane	7.434	63	7677	4.941	ug/l	95
40) Dibromomethane	7.586	93	5978	4.889	ug/l	99
41) Bromodichloromethane	7.824	83	10205	4.445	ug/l	96
42) Vinyl Acetate	3.721	43	113612	23.704	ug/l	100

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43) Ethyl Acetate	4.727	43	14323m	5.374	ug/l	
44) Isopropyl Acetate	6.348	43	19646	4.876	ug/l	99
45) 1,4-Dioxane	7.677	88	4542m	99.956	ug/l	
46) Methyl methacrylate	7.702	41	8822	4.401	ug/l	95
47) n-amyl Acetate	10.848	43	15146	4.145	ug/l	97
48) t-1,3-Dichloropropene	8.982	75	9330	4.047	ug/l	94
49) cis-1,3-Dichloropropene	8.372	75	10793	4.322	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	8350	4.909	ug/l	94
51) Ethyl methacrylate	9.122	69	11997	4.381	ug/l	97
52) 1,3-Dichloropropane	9.311	76	13956	4.965	ug/l	98
53) Dibromochloromethane	9.519	129	8176	4.224	ug/l	98
54) 1,2-Dibromoethane	9.610	107	8782	4.868	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	31415	23.505	ug/l	99
56) Bromoform	10.799	173	5897	3.803	ug/l	97
58) 4-Methyl-2-Pentanone	8.580	43	66298	25.481	ug/l	99
59) 2-Hexanone	9.433	43	51001	24.605	ug/l	99
61) Tetrachloroethene	9.275	164	8837	5.072	ug/l	95
62) Toluene	8.720	91	36159	5.103	ug/l	99
64) Chlorobenzene	10.079	112	24099	5.007	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	7998	4.695	ug/l	99
66) Ethyl Benzene	10.195	91	37308	4.742	ug/l	99
67) m/p-Xylenes	10.299	106	29490	9.585	ug/l	96
68) o-Xylene	10.640	106	15207	4.910	ug/l	97
69) Styrene	10.659	104	23458	4.517	ug/l	99
70) Isopropylbenzene	10.963	105	37311	4.768	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.213	83	13525	5.031	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	12031m	4.962	ug/l	
73) Bromobenzene	11.201	156	10858	4.722	ug/l	97
74) n-propylbenzene	11.305	91	39952	4.527	ug/l	99
75) 2-Chlorotoluene	11.366	91	27876	5.030	ug/l	96
76) 1,3,5-Trimethylbenzene	11.451	105	31059	4.650	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	2792	3.664	ug/l	91
78) 4-Chlorotoluene	11.457	91	29575	4.686	ug/l	99
79) tert-butylbenzene	11.713	119	32908	4.629	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	30820	4.603	ug/l	98
81) sec-Butylbenzene	11.890	105	37721	4.541	ug/l	99
82) p-Isopropyltoluene	12.006	119	29795	4.097	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	18865	4.574	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	18124	4.349	ug/l	98
85) n-Butylbenzene	12.335	91	22258	3.804	ug/l	99
86) Hexachloroethane	12.536	117	4841	3.954	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	19867	4.720	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	2637	4.466	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	11952	4.226	ug/l	99
90) Hexachlorobutadiene	13.725	225	6544	4.743	ug/l	98
91) Naphthalene	13.780	128	37386	4.423	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	12990	4.495	ug/l	98

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

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