

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032823\
 Data File : VX034786.D
 Acq On : 28 Mar 2023 12:00
 Operator : JC/MD
 Sample : 01627-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT1-2023

Quant Time: Mar 28 15:18:12 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 03/30/2023
 Supervised By : Semsettin Yesilyurt 03/29/2023

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

Internal Standards						
1) Bromochloromethane	4.897	128	25241	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	183124	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	191738	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	75922	31.305	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.333%			
60) 4-Bromofluorobenzene	11.079	95	107524	28.065	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.567%			
63) Toluene-d8	8.647	98	199594	30.632	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.100%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	12469	5.208	ug/l	99
3) Chloromethane	1.294	50	16432	5.293	ug/l	94
4) Vinyl Chloride	1.374	62	15984	5.219	ug/l	97
5) Bromomethane	1.618	94	13055	6.480	ug/l	97
6) Chloroethane	1.691	64	10696	5.366	ug/l	94
7) Trichlorofluoromethane	1.886	101	27839	5.706	ug/l	92
8) Diethyl Ether	2.136	74	9990	5.688	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	14077	5.688	ug/l	98
10) 1,1-Dichloroethene	2.319	96	13227	5.279	ug/l	94
11) Methyl Iodide	2.453	142	13652	4.279	ug/l	97
12) Methyl Acetate	2.709	43	29484	5.314	ug/l	97
13) Acrolein	2.239	56	18055	28.062	ug/l	99
14) Acrylonitrile	3.068	53	40034	26.204	ug/l	98
15) Acetone	2.392	58	11252	27.128	ug/l	90
16) Carbon Disulfide	2.514	76	30122	4.700	ug/l	98
17) Allyl chloride	2.666	41	25042	5.165	ug/l	97
18) Methylene Chloride	2.788	84	16001	5.422	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	14829	5.409	ug/l	91
20) Diisopropyl ether	3.757	45	52778	5.314	ug/l #	91
21) 1,1-Dichloroethane	3.611	63	28457	5.358	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	16852	5.278	ug/l	99
23) tert-Butyl Alcohol	3.001	59	18675m	27.167	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	49377	5.304	ug/l	96
25) Chloroform	5.093	83	28526	5.281	ug/l	100
26) Cyclohexane	5.471	56	25446	5.467	ug/l #	95
29) 1,1-Dichloropropene	5.690	75	20469	4.860	ug/l	85
30) 2-Butanone	4.568	43	58906	25.078	ug/l	99
31) 2,2-Dichloropropane	4.477	77	21139	4.949	ug/l	97
32) 1,1,1-Trichloroethane	5.379	97	22677	4.590	ug/l	99
33) Carbon Tetrachloride	5.678	117	18399	4.512	ug/l	98
34) Benzene	6.037	78	62658	5.119	ug/l	97
35) Methacrylonitrile	4.922	41	12897m	5.017	ug/l	
36) 1,2-Dichloroethane	6.092	62	24471	5.099	ug/l	97
37) Trichloroethene	7.129	130	15501	4.976	ug/l	99
38) Methylcyclohexane	7.379	83	23877	5.189	ug/l	99
39) 1,2-Dichloropropane	7.427	63	16434	5.165	ug/l	100
40) Dibromomethane	7.580	93	10723	4.906	ug/l	99
41) Bromodichloromethane	7.824	83	18216	4.425	ug/l #	98
42) Vinyl Acetate	3.721	43	179526	23.428	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	19812	4.349	ug/l	96
44) Isopropyl Acetate	6.342	43	34841	4.518	ug/l	97
45) 1,4-Dioxane	7.708	88	7944m	103.976	ug/l	
46) Methyl methacrylate	7.696	41	17128	4.558	ug/l	95
47) n-amyl Acetate	10.848	43	26085	3.891	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	17697	3.946	ug/l	93
49) cis-1,3-Dichloropropene	8.366	75	20485	4.157	ug/l	92
50) 1,1,2-Trichloroethane	9.153	97	15395	5.056	ug/l	96
51) Ethyl methacrylate	9.116	69	22033	4.459	ug/l	95
52) 1,3-Dichloropropane	9.311	76	26918	5.005	ug/l	98
53) Dibromochloromethane	9.519	129	12047	4.000	ug/l	98
54) 1,2-Dibromoethane	9.610	107	15198	4.666	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	60320	23.195	ug/l	99
56) Bromoform	10.799	173	7399	3.563	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	111817	25.435	ug/l	100
59) 2-Hexanone	9.433	43	85036	25.691	ug/l	97
61) Tetrachloroethene	9.275	164	14464	5.599	ug/l	93
62) Toluene	8.720	91	66149	5.276	ug/l	100
64) Chlorobenzene	10.079	112	40853	5.291	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.159	131	12456	4.513	ug/l	98
66) Ethyl Benzene	10.195	91	70813	5.071	ug/l	96
67) m/p-Xylenes	10.299	106	54386	10.236	ug/l	100
68) o-Xylene	10.640	106	27248	5.186	ug/l	98
69) Styrene	10.659	104	39747	4.589	ug/l	98
70) Isopropylbenzene	10.963	105	68613	5.046	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	22394	5.010	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	19927m	4.897	ug/l	
73) Bromobenzene	11.201	156	16568	5.073	ug/l	97
74) n-propylbenzene	11.305	91	77945	4.924	ug/l	100
75) 2-Chlorotoluene	11.366	91	49837	5.050	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	55340	4.834	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	3926	3.142	ug/l	85
78) 4-Chlorotoluene	11.457	91	55618	4.916	ug/l	99
79) tert-butylbenzene	11.713	119	52852	4.837	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	56465	4.964	ug/l	99
81) sec-Butylbenzene	11.890	105	65543	4.950	ug/l	100
82) p-Isopropyltoluene	12.006	119	53679	4.804	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	30216	4.899	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	31197	5.037	ug/l	98
85) n-Butylbenzene	12.335	91	44068	4.576	ug/l	99
86) Hexachloroethane	12.536	117	6868	3.753	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	30467	5.049	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	3708	3.796	ug/l	89
89) 1,2,4-Trichlorobenzene	13.591	180	17559	4.850	ug/l	96
90) Hexachlorobutadiene	13.725	225	6835	4.896	ug/l #	58
91) Naphthalene	13.774	128	57325	4.482	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	17321	4.786	ug/l	97

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

