

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111022\
 Data File : VX032755.D
 Acq On : 11 Nov 2022 04:50
 Operator : JC/MD
 Sample : N4955-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2022

Quant Time: Nov 11 05:34:58 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X111022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 11 05:24:06 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 11/11/2022
 Supervised By : Mahesh Dadoda 11/11/2022

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

Internal Standards						
1) Bromochloromethane	4.897	128	11240	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	79848	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	84278	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	32734	30.187	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.633%			
60) 4-Bromofluorobenzene	11.079	95	46072	28.578	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.267%			
63) Toluene-d8	8.653	98	85525	30.070	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.233%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	4934	4.960	ug/l	100
3) Chloromethane	1.294	50	5098	5.164	ug/l	94
4) Vinyl Chloride	1.374	62	5635	5.048	ug/l	96
5) Bromomethane	1.618	94	5765	5.818	ug/l	88
6) Chloroethane	1.685	64	5601	6.353	ug/l #	87
7) Trichlorofluoromethane	1.886	101	12256	5.696	ug/l	91
8) Diethyl Ether	2.130	74	3885	5.584	ug/l	70
9) 1,1,2-Trichlorotrifluo...	2.325	101	5934	5.185	ug/l	95
10) 1,1-Dichloroethene	2.319	96	5759	5.267	ug/l #	82
11) Methyl Iodide	2.453	142	4733	4.026	ug/l	99
12) Methyl Acetate	2.703	43	9006m	5.560	ug/l	
13) Acrolein	2.239	56	5650	26.158	ug/l	99
14) Acrylonitrile	3.068	53	15545	26.772	ug/l	98
15) Acetone	2.392	58	4435	29.373	ug/l	94
16) Carbon Disulfide	2.514	76	13506	4.962	ug/l	99
17) Allyl chloride	2.666	41	8383	4.825	ug/l	87
18) Methylene Chloride	2.794	84	7676	6.087	ug/l	92
19) trans-1,2-Dichloroethene	3.093	96	6429	5.338	ug/l #	81
20) Diisopropyl ether	3.757	45	19664	5.047	ug/l #	89
21) 1,1-Dichloroethane	3.611	63	11322	5.177	ug/l	96
22) cis-1,2-Dichloroethene	4.489	96	7321	5.206	ug/l	90
23) tert-Butyl Alcohol	2.983	59	6333m	33.591	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	20413	5.214	ug/l #	91
25) Chloroform	5.099	83	12441	5.100	ug/l	95
26) Cyclohexane	5.483	56	9986	5.229	ug/l #	85
29) 1,1-Dichloropropene	5.696	75	8847	4.996	ug/l	97
30) 2-Butanone	4.568	43	22298	27.004	ug/l #	89
31) 2,2-Dichloropropane	4.483	77	6820	4.503	ug/l	94
32) 1,1,1-Trichloroethane	5.385	97	11119	4.991	ug/l	95
33) Carbon Tetrachloride	5.684	117	9377	4.794	ug/l	93
34) Benzene	6.044	78	25614	5.133	ug/l #	94
35) Methacrylonitrile	4.922	41	4729m	5.057	ug/l	
36) 1,2-Dichloroethane	6.092	62	10351	5.039	ug/l #	86
37) Trichloroethene	7.129	130	7130	5.108	ug/l	88
38) Methylcyclohexane	7.379	83	10015	5.048	ug/l	86
39) 1,2-Dichloropropane	7.427	63	6273	4.967	ug/l	95
40) Dibromomethane	7.580	93	5008	5.193	ug/l	94
41) Bromodichloromethane	7.824	83	8746	4.758	ug/l	91
42) Vinyl Acetate	3.727	43	75335	23.744	ug/l #	92

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43) Ethyl Acetate	4.721	43	8009	4.822	ug/l	98
44) Isopropyl Acetate	6.348	43	13687	4.917	ug/l #	91
45) 1,4-Dioxane	7.708	88	2838	106.144	ug/l #	86
46) Methyl methacrylate	7.696	41	6679	4.766	ug/l	87
47) n-amyl Acetate	10.841	43	10679	4.315	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	7953	4.218	ug/l	95
49) cis-1,3-Dichloropropene	8.372	75	8748	4.394	ug/l	94
50) 1,1,2-Trichloroethane	9.153	97	6934	5.230	ug/l	93
51) Ethyl methacrylate	9.122	69	9123	4.607	ug/l	84
52) 1,3-Dichloropropane	9.311	76	11080	5.112	ug/l	99
53) Dibromochloromethane	9.525	129	6305	4.373	ug/l	100
54) 1,2-Dibromoethane	9.610	107	6884	4.820	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	22908	23.940	ug/l	93
56) Bromoform	10.799	173	4421	4.283	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	44809	27.160	ug/l #	88
59) 2-Hexanone	9.433	43	31325	25.788	ug/l	91
61) Tetrachloroethene	9.275	164	6351	5.392	ug/l	91
62) Toluene	8.720	91	28480	5.196	ug/l	97
64) Chlorobenzene	10.079	112	17702	5.224	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	6107	4.731	ug/l	94
66) Ethyl Benzene	10.195	91	31816	5.174	ug/l	97
67) m/p-Xylenes	10.305	106	23479	9.814	ug/l	87
68) o-Xylene	10.646	106	11748	5.004	ug/l	93
69) Styrene	10.659	104	18567	4.757	ug/l	95
70) Isopropylbenzene	10.963	105	30457	4.859	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	9963	5.241	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	8538m	5.171	ug/l	
73) Bromobenzene	11.201	156	7756	5.093	ug/l	88
74) n-propylbenzene	11.305	91	34275	4.812	ug/l	96
75) 2-Chlorotoluene	11.366	91	21428	4.969	ug/l	90
76) 1,3,5-Trimethylbenzene	11.451	105	25397	4.792	ug/l	96
77) t-1,4-Dichloro-2-butene	11.018	75	1878	3.727	ug/l	82
78) 4-Chlorotoluene	11.457	91	23815	4.794	ug/l	94
79) tert-butylbenzene	11.713	119	25383	4.929	ug/l	94
80) 1,2,4-Trimethylbenzene	11.756	105	25059	4.836	ug/l	94
81) sec-Butylbenzene	11.890	105	29783	4.804	ug/l	95
82) p-Isopropyltoluene	12.012	119	24310	4.652	ug/l	96
83) 1,3-Dichlorobenzene	11.969	146	13722	4.911	ug/l	96
84) 1,4-Dichlorobenzene	12.042	146	14007	4.992	ug/l	99
85) n-Butylbenzene	12.335	91	19511	4.406	ug/l	93
86) Hexachloroethane	12.536	117	3600	4.197	ug/l	93
87) 1,2-Dichlorobenzene	12.335	146	13973	5.031	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1860	4.612	ug/l #	78
89) 1,2,4-Trichlorobenzene	13.591	180	8184	4.798	ug/l	94
90) Hexachlorobutadiene	13.725	225	3468	5.051	ug/l	98
91) Naphthalene	13.774	128	26633	4.626	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	8518	4.965	ug/l	91

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

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