

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032823\
 Data File : VX034787.D
 Acq On : 28 Mar 2023 12:26
 Operator : JC/MD
 Sample : 01627-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2023

Quant Time: Mar 28 15:18:31 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	4.903	128	24889	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	179250	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	190022	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	73213	30.615	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.033%			
60) 4-Bromofluorobenzene	11.079	95	105264	27.723	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 92.400%			
63) Toluene-d8	8.647	98	196618	30.447	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.500%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	5740	2.432	ug/l	97
3) Chloromethane	1.294	50	8481	2.771	ug/l	95
4) Vinyl Chloride	1.373	62	8478	2.807	ug/l	98
5) Bromomethane	1.617	94	6407	3.225	ug/l	95
6) Chloroethane	1.690	64	5474	2.785	ug/l	99
7) Trichlorofluoromethane	1.892	101	13353	2.776	ug/l	97
8) Diethyl Ether	2.136	74	5125	2.959	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	6697	2.744	ug/l	96
10) 1,1-Dichloroethene	2.324	96	6607	2.674	ug/l	96
11) Methyl Iodide	2.453	142	7031	2.235	ug/l	93
12) Methyl Acetate	2.709	43	14393	2.631	ug/l	97
13) Acrolein	2.239	56	8538	13.458	ug/l	95
14) Acrylonitrile	3.068	53	19479	12.930	ug/l	98
15) Acetone	2.398	58	6066	14.831	ug/l	80
16) Carbon Disulfide	2.513	76	15829	2.505	ug/l	99
17) Allyl chloride	2.666	41	12596	2.635	ug/l	98
18) Methylene Chloride	2.788	84	8545	2.936	ug/l	94
19) trans-1,2-Dichloroethene	3.087	96	7485	2.769	ug/l	95
20) Diisopropyl ether	3.757	45	25677	2.622	ug/l #	83
21) 1,1-Dichloroethane	3.611	63	13431	2.565	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	8084	2.568	ug/l	96
23) tert-Butyl Alcohol	3.013	59	10035m	14.805	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	24441	2.662	ug/l	95
25) Chloroform	5.098	83	13942	2.617	ug/l	95
26) Cyclohexane	5.470	56	12490	2.722	ug/l #	98
29) 1,1-Dichloropropene	5.696	75	10245	2.485	ug/l	98
30) 2-Butanone	4.568	43	28150	12.243	ug/l #	86
31) 2,2-Dichloropropane	4.464	77	9943	2.378	ug/l #	82
32) 1,1,1-Trichloroethane	5.379	97	10815	2.236	ug/l #	75
33) Carbon Tetrachloride	5.671	117	8923	2.235	ug/l #	90
34) Benzene	6.037	78	30361	2.534	ug/l #	92
35) Methacrylonitrile	4.928	41	5334	2.120	ug/l	90
36) 1,2-Dichloroethane	6.092	62	11732	2.498	ug/l #	91
37) Trichloroethene	7.128	130	7822	2.565	ug/l	100
38) Methylcyclohexane	7.378	83	11747	2.608	ug/l	99
39) 1,2-Dichloropropane	7.433	63	7558	2.427	ug/l	92
40) Dibromomethane	7.586	93	4751	2.221	ug/l	93
41) Bromodichloromethane	7.824	83	8783	2.180	ug/l #	87
42) Vinyl Acetate	3.721	43	83966	11.194	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	4214	0.945	ug/l #	74
44) Isopropyl Acetate	6.342	43	17231	2.283	ug/l	94
45) 1,4-Dioxane	7.714	88	4140m	55.358	ug/l	
46) Methyl methacrylate	7.695	41	8285	2.253	ug/l	95
47) n-amyl Acetate	10.847	43	11679	1.780	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	7945	1.810	ug/l	93
49) cis-1,3-Dichloropropene	8.366	75	9349	1.938	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	7416	2.488	ug/l	96
51) Ethyl methacrylate	9.116	69	10160	2.100	ug/l	97
52) 1,3-Dichloropropane	9.311	76	13123	2.493	ug/l	100
53) Dibromochloromethane	9.524	129	5508	1.868	ug/l	94
54) 1,2-Dibromoethane	9.610	107	7256	2.276	ug/l	97
55) 2-Chloroethyl vinyl ether	8.244	63	27791	10.917	ug/l	99
56) Bromoform	10.799	173	3240	1.594	ug/l #	99
58) 4-Methyl-2-Pentanone	8.573	43	52773	12.113	ug/l	99
59) 2-Hexanone	9.433	43	38133	11.625	ug/l	98
61) Tetrachloroethene	9.274	164	7120	2.781	ug/l	94
62) Toluene	8.720	91	32137	2.586	ug/l	97
64) Chlorobenzene	10.079	112	19410	2.537	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.165	131	5999	2.193	ug/l	99
66) Ethyl Benzene	10.195	91	35053	2.533	ug/l	98
67) m/p-Xylenes	10.305	106	25803	4.900	ug/l	97
68) o-Xylene	10.640	106	12924	2.482	ug/l	99
69) Styrene	10.658	104	18587	2.165	ug/l	98
70) Isopropylbenzene	10.963	105	33289	2.470	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	10531	2.377	ug/l	95
72) 1,2,3-Trichloropropane	11.238	75	9077m	2.251	ug/l	
73) Bromobenzene	11.201	156	8344	2.578	ug/l	97
74) n-propylbenzene	11.305	91	36675	2.338	ug/l	99
75) 2-Chlorotoluene	11.366	91	23782	2.432	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	25917	2.285	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	1821	1.470	ug/l	60
78) 4-Chlorotoluene	11.457	91	25074	2.236	ug/l	94
79) tert-butylbenzene	11.713	119	24096	2.225	ug/l	95
80) 1,2,4-Trimethylbenzene	11.750	105	25670	2.277	ug/l	99
81) sec-Butylbenzene	11.890	105	30904	2.355	ug/l	100
82) p-Isopropyltoluene	12.012	119	24513	2.214	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	14959	2.447	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	15358	2.502	ug/l	95
85) n-Butylbenzene	12.335	91	20259	2.123	ug/l	98
86) Hexachloroethane	12.536	117	2815	1.552	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	14912	2.493	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1587	1.639	ug/l	91
89) 1,2,4-Trichlorobenzene	13.591	180	8212	2.289	ug/l	99
90) Hexachlorobutadiene	13.725	225	3912	2.827	ug/l	96
91) Naphthalene	13.780	128	27170	2.143	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	8421	2.348	ug/l	97

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

