

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032823\
 Data File : VX034776.D
 Acq On : 28 Mar 2023 03:34
 Operator : JC/MD
 Sample : 01627-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 48 Sample Multiplier: 1

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

Quant Time: Mar 28 09:22:20 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 :Krupa Patel 03/29/2023
 Supervised By :Semsettin Yesilyurt 03/29/2023

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

Internal Standards						
1) Bromochloromethane	4.897	128	26664	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	190277	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	201273	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	79737	31.123	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.733%			
60) 4-Bromofluorobenzene	11.079	95	112344	27.934	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.100%			
63) Toluene-d8	8.647	98	211289	30.890	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.967%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	6026	2.383	ug/l	95
3) Chloromethane	1.294	50	8108	2.473	ug/l #	80
4) Vinyl Chloride	1.374	62	8142	2.517	ug/l	98
5) Bromomethane	1.618	94	6395	3.005	ug/l	89
6) Chloroethane	1.691	64	5165	2.453	ug/l	94
7) Trichlorofluoromethane	1.892	101	13674	2.653	ug/l	100
8) Diethyl Ether	2.136	74	4965	2.676	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	6401	2.448	ug/l	93
10) 1,1-Dichloroethene	2.325	96	7105	2.684	ug/l	91
11) Methyl Iodide	2.453	142	7323	2.173	ug/l	98
12) Methyl Acetate	2.709	43	14970	2.554	ug/l	95
13) Acrolein	2.239	56	9196	13.530	ug/l	100
14) Acrylonitrile	3.068	53	20118	12.465	ug/l	98
15) Acetone	2.398	58	5901	13.468	ug/l	85
16) Carbon Disulfide	2.514	76	16504	2.438	ug/l	99
17) Allyl chloride	2.672	41	13109	2.560	ug/l	87
18) Methylene Chloride	2.788	84	8905	2.856	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	7292	2.518	ug/l	95
20) Diisopropyl ether	3.757	45	26242	2.501	ug/l	87
21) 1,1-Dichloroethane	3.611	63	14064	2.507	ug/l	97
22) cis-1,2-Dichloroethene	4.495	96	8628	2.558	ug/l	94
23) tert-Butyl Alcohol	3.014	59	10873m	14.973	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	25027	2.545	ug/l	97
25) Chloroform	5.093	83	14418	2.527	ug/l	98
26) Cyclohexane	5.470	56	12406	2.523	ug/l #	95
29) 1,1-Dichloropropene	5.690	75	10402	2.377	ug/l	99
30) 2-Butanone	4.568	43	28870	11.829	ug/l #	71
31) 2,2-Dichloropropane	4.489	77	8791m	1.981	ug/l	
32) 1,1,1-Trichloroethane	5.385	97	11479	2.236	ug/l #	92
33) Carbon Tetrachloride	5.678	117	9059	2.138	ug/l	84
34) Benzene	6.037	78	30609	2.407	ug/l	97
35) Methacrylonitrile	4.928	41	6460	2.418	ug/l	92
36) 1,2-Dichloroethane	6.086	62	12091	2.425	ug/l #	87
37) Trichloroethene	7.129	130	7911	2.444	ug/l	97
38) Methylcyclohexane	7.379	83	11247	2.352	ug/l	96
39) 1,2-Dichloropropane	7.434	63	7839	2.371	ug/l	92
40) Dibromomethane	7.580	93	5592	2.462	ug/l	95
41) Bromodichloromethane	7.824	83	8911	2.083	ug/l #	95
42) Vinyl Acetate	3.727	43	85790	10.775	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	9662	2.041	ug/l #	84
44) Isopropyl Acetate	6.342	43	17357	2.166	ug/l	98
45) 1,4-Dioxane	7.726	88	3990m	50.261	ug/l	
46) Methyl methacrylate	7.696	41	7530	1.929	ug/l	96
47) n-amyl Acetate	10.848	43	12133	1.742	ug/l	95
48) t-1,3-Dichloropropene	8.982	75	8276	1.776	ug/l	94
49) cis-1,3-Dichloropropene	8.372	75	9807	1.915	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	7455	2.356	ug/l	93
51) Ethyl methacrylate	9.116	69	10247	1.996	ug/l	96
52) 1,3-Dichloropropane	9.311	76	13425	2.402	ug/l	100
53) Dibromochloromethane	9.519	129	5822	1.860	ug/l	96
54) 1,2-Dibromoethane	9.610	107	7605	2.247	ug/l	95
55) 2-Chloroethyl vinyl ether	8.244	63	27030	10.003	ug/l	95
56) Bromoform	10.799	173	3683	1.707	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	54822	11.880	ug/l	99
59) 2-Hexanone	9.433	43	38996	11.223	ug/l	100
61) Tetrachloroethene	9.275	164	7380	2.721	ug/l	95
62) Toluene	8.720	91	32904	2.500	ug/l	99
64) Chlorobenzene	10.079	112	20392	2.516	ug/l	91
65) 1,1,1,2-Tetrachloroethane	10.165	131	6190	2.136	ug/l	97
66) Ethyl Benzene	10.195	91	35189	2.401	ug/l	99
67) m/p-Xylenes	10.299	106	25805	4.627	ug/l	100
68) o-Xylene	10.640	106	13545	2.456	ug/l	94
69) Styrene	10.659	104	19589	2.154	ug/l	99
70) Isopropylbenzene	10.963	105	32534	2.279	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	10602	2.260	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	9581m	2.243	ug/l	
73) Bromobenzene	11.195	156	8434	2.460	ug/l	94
74) n-propylbenzene	11.305	91	36636	2.205	ug/l	98
75) 2-Chlorotoluene	11.366	91	24672	2.382	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	26604	2.214	ug/l	97
77) t-1,4-Dichloro-2-butene	11.024	75	1862	1.419	ug/l	90
78) 4-Chlorotoluene	11.457	91	26071	2.195	ug/l	100
79) tert-butylbenzene	11.713	119	25684	2.239	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	26399	2.211	ug/l	99
81) sec-Butylbenzene	11.890	105	29609	2.130	ug/l	97
82) p-Isopropyltoluene	12.012	119	24429	2.083	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	14245	2.200	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	14555	2.239	ug/l	96
85) n-Butylbenzene	12.335	91	19569	1.936	ug/l	99
86) Hexachloroethane	12.536	117	3115	1.621	ug/l	93
87) 1,2-Dichlorobenzene	12.335	146	14686	2.318	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1507	1.470	ug/l	89
89) 1,2,4-Trichlorobenzene	13.585	180	8009	2.108	ug/l	96
90) Hexachlorobutadiene	13.725	225	3270	2.231	ug/l	94
91) Naphthalene	13.774	128	28027	2.087	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	8806	2.318	ug/l	98

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

