

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX033123\
 Data File : VX034869.D
 Acq On : 31 Mar 2023 11:36
 Operator : JC/MD
 Sample : 01627-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT1-2023

Quant Time: Apr 01 03:59:10 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

04/03/2023
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	4.904	128	22413	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	161365	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	169718	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	66657	30.953	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 103.167%	
60) 4-Bromofluorobenzene	11.079	95	94936	27.994	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 93.300%	
63) Toluene-d8	8.647	98	176960	30.682	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 102.267%	

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	5647	2.656	ug/l	93
3) Chloromethane	1.294	50	8177	2.967	ug/l	95
4) Vinyl Chloride	1.374	62	7623	2.803	ug/l	99
5) Bromomethane	1.618	94	5134	2.870	ug/l	84
6) Chloroethane	1.691	64	5188	2.931	ug/l	95
7) Trichlorofluoromethane	1.892	101	12401	2.863	ug/l	96
8) Diethyl Ether	2.130	74	4502	2.887	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.331	101	6653	3.027	ug/l	97
10) 1,1-Dichloroethene	2.319	96	6327	2.844	ug/l	97
11) Methyl Iodide	2.447	142	6698	2.364	ug/l	85
12) Methyl Acetate	2.709	43	12994	2.637	ug/l	100
13) Acrolein	2.239	56	7550	13.215	ug/l	99
14) Acrylonitrile	3.068	53	16859	12.427	ug/l	95
15) Acetone	2.398	58	5441	14.773	ug/l #	66
16) Carbon Disulfide	2.514	76	13502	2.373	ug/l	96
17) Allyl chloride	2.666	41	10640	2.472	ug/l	90
18) Methylene Chloride	2.788	84	8252	3.149	ug/l	95
19) trans-1,2-Dichloroethene	3.087	96	6717	2.759	ug/l	93
20) Diisopropyl ether	3.757	45	23420	2.655	ug/l	87
21) 1,1-Dichloroethane	3.611	63	12244	2.596	ug/l	99
22) cis-1,2-Dichloroethene	4.477	96	7765m	2.739	ug/l	
23) tert-Butyl Alcohol	2.995	59	7461m	12.223	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	21383	2.587	ug/l	97
25) Chloroform	5.093	83	12934	2.696	ug/l	98
26) Cyclohexane	5.470	56	11138	2.695	ug/l #	97
29) 1,1-Dichloropropene	5.702	75	9389	2.530	ug/l	97
30) 2-Butanone	4.574	43	25123	12.138	ug/l #	94
31) 2,2-Dichloropropane	4.471	77	8880	2.359	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	9744	2.238	ug/l	97
33) Carbon Tetrachloride	5.678	117	8262	2.299	ug/l	92
34) Benzene	6.037	78	27449	2.545	ug/l	96
35) Methacrylonitrile	4.928	41	5122	2.261	ug/l	86
36) 1,2-Dichloroethane	6.092	62	10384	2.456	ug/l #	85
37) Trichloroethene	7.129	130	6955	2.534	ug/l	100
38) Methylcyclohexane	7.379	83	10441	2.575	ug/l	98
39) 1,2-Dichloropropane	7.427	63	6942	2.476	ug/l	91
40) Dibromomethane	7.586	93	4700	2.441	ug/l	97
41) Bromodichloromethane	7.824	83	7655	2.110	ug/l	96
42) Vinyl Acetate	3.721	43	72643	10.758	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	9925m	2.472	ug/l	
44) Isopropyl Acetate	6.336	43	14184	2.087	ug/l	100
45) 1,4-Dioxane	7.702	88	3426m	50.888	ug/l	
46) Methyl methacrylate	7.696	41	6692	2.021	ug/l	91
47) n-amyl Acetate	10.848	43	10736	1.817	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	7046	1.783	ug/l #	86
49) cis-1,3-Dichloropropene	8.366	75	8282	1.907	ug/l	94
50) 1,1,2-Trichloroethane	9.153	97	6462	2.409	ug/l	98
51) Ethyl methacrylate	9.116	69	8442	1.939	ug/l	95
52) 1,3-Dichloropropane	9.311	76	12292	2.594	ug/l	97
53) Dibromochloromethane	9.525	129	4817	1.815	ug/l	98
54) 1,2-Dibromoethane	9.610	107	6335	2.207	ug/l	95
55) 2-Chloroethyl vinyl ether	8.244	63	23662	10.326	ug/l	96
56) Bromoform	10.799	173	2728	1.491	ug/l #	97
58) 4-Methyl-2-Pentanone	8.574	43	46869	12.045	ug/l	97
59) 2-Hexanone	9.433	43	33809	11.540	ug/l	98
61) Tetrachloroethene	9.275	164	6488	2.837	ug/l	95
62) Toluene	8.720	91	30003	2.704	ug/l	98
64) Chlorobenzene	10.079	112	18191	2.662	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	5461	2.235	ug/l	98
66) Ethyl Benzene	10.195	91	30965	2.505	ug/l	100
67) m/p-Xylenes	10.299	106	23439	4.984	ug/l	100
68) o-Xylene	10.640	106	11162	2.400	ug/l	97
69) Styrene	10.659	104	17123	2.233	ug/l	99
70) Isopropylbenzene	10.963	105	29109	2.418	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	9614	2.430	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	7766m	2.156	ug/l	
73) Bromobenzene	11.201	156	7316	2.531	ug/l	96
74) n-propylbenzene	11.305	91	32594	2.326	ug/l	99
75) 2-Chlorotoluene	11.366	91	22811	2.611	ug/l	95
76) 1,3,5-Trimethylbenzene	11.451	105	23899	2.359	ug/l	97
77) t-1,4-Dichloro-2-butene	11.024	75	1436	1.298	ug/l	72
78) 4-Chlorotoluene	11.457	91	24227	2.419	ug/l	97
79) tert-butylbenzene	11.713	119	22355	2.311	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	23250	2.309	ug/l	99
81) sec-Butylbenzene	11.890	105	26694	2.278	ug/l	99
82) p-Isopropyltoluene	12.006	119	21407	2.164	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	13292	2.435	ug/l	95
84) 1,4-Dichlorobenzene	12.042	146	13544	2.471	ug/l	99
85) n-Butylbenzene	12.335	91	17722	2.079	ug/l	97
86) Hexachloroethane	12.536	117	2668	1.647	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	12949	2.424	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1392	1.610	ug/l	85
89) 1,2,4-Trichlorobenzene	13.591	180	6976	2.177	ug/l	99
90) Hexachlorobutadiene	13.725	225	3567	2.886	ug/l	94
91) Naphthalene	13.780	128	23258	2.054	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	7291	2.276	ug/l	97

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

