

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060822\
 Data File : VN072697.D
 Acq On : 08 Jun 2022 11:27
 Operator : JC\MD
 Sample : N3214-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT2-2022

Quant Time: Jun 09 03:21:50 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N060622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jun 06 14:10:15 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/09/2022
 Supervised By : Mahesh Dadoda 06/09/2022

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

Internal Standards						
1) Bromochloromethane	7.651	128	35230	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	212681	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.745	117	178548	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	121140	30.150	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.500%			
60) 4-Bromofluorobenzene	12.727	95	94498	25.732	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 85.767%			
63) Toluene-d8	10.439	98	310007	31.343	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 104.467%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.069	85	8517	3.227	ug/l	93
3) Chloromethane	2.298	50	9754	3.399	ug/l	98
4) Vinyl Chloride	2.440	62	9035	3.491	ug/l	91
5) Bromomethane	2.845	94	5188m	3.877	ug/l	
6) Chloroethane	3.004	64	7451m	4.318	ug/l	
7) Trichlorofluoromethane	3.357	101	13779m	2.945	ug/l	
8) Diethyl Ether	3.816	74	5378	2.965	ug/l	91
9) 1,1,2-Trichlorotrifluo...	4.204	101	7949	3.225	ug/l	71
10) 1,1-Dichloroethene	4.181	96	7920m	3.403	ug/l	
11) Methyl Iodide	4.428	142	6057m	2.599	ug/l	
12) Methyl Acetate	4.851	43	16480	3.432	ug/l	96
13) Acrolein	4.034	56	7310	17.389	ug/l	93
14) Acrylonitrile	5.551	53	29231	14.932	ug/l	95
15) Acetone	4.292	58	7556m	14.256	ug/l	
16) Carbon Disulfide	4.534	76	18584	3.167	ug/l	99
17) Allyl chloride	4.839	41	16391	3.260	ug/l	72
18) Methylene Chloride	5.098	84	9407m	3.219	ug/l	
19) trans-1,2-Dichloroethene	5.592	96	7565m	3.003	ug/l	
20) Diisopropyl ether	6.492	45	29447	2.957	ug/l #	93
21) 1,1-Dichloroethane	6.375	63	16248	2.937	ug/l	98
22) cis-1,2-Dichloroethene	7.322	96	9572	3.034	ug/l	87
23) tert-Butyl Alcohol	5.369	59	16215m	17.800	ug/l	
24) Methyl tert-Butyl Ether	5.610	73	29728	2.872	ug/l #	85
25) Chloroform	7.816	83	16065	2.827	ug/l	100
26) Cyclohexane	8.092	56	14453	3.133	ug/l #	92
29) 1,1-Dichloropropene	8.216	75	11845	2.922	ug/l	94
30) 2-Butanone	7.333	43	40894	13.938	ug/l	97
31) 2,2-Dichloropropane	7.322	77	15704	2.862	ug/l	98
32) 1,1,1-Trichloroethane	8.004	97	14808	2.791	ug/l	95
33) Carbon Tetrachloride	8.204	117	12658	2.767	ug/l	87
34) Benzene	8.457	78	37653	3.139	ug/l #	69
35) Methacrylonitrile	7.639	41	9644	3.352	ug/l	84
36) 1,2-Dichloroethane	8.522	62	15280	3.015	ug/l #	80
37) Trichloroethene	9.216	130	8694	3.007	ug/l	96
38) Methylcyclohexane	9.457	83	14391	2.973	ug/l	88
39) 1,2-Dichloropropane	9.486	63	9505	2.885	ug/l #	88
40) Dibromomethane	9.574	93	6620	2.927	ug/l	95
41) Bromodichloromethane	9.757	83	13297	2.748	ug/l #	90
42) Vinyl Acetate	6.428	43	133851m	14.013	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.404	43	17512	3.115	ug/l	#	93
44) Isopropyl Acetate	8.557	43	27661m	2.966	ug/l		
45) 1,4-Dioxane	9.569	88	4805	62.705	ug/l	#	86
46) Methyl methacrylate	9.551	41	12029	2.885	ug/l		79
47) n-amyl Acetate	12.386	43	15129	2.119	ug/l		100
48) t-1,3-Dichloropropene	10.716	75	14377	2.603	ug/l	#	85
49) cis-1,3-Dichloropropene	10.186	75	15271	2.723	ug/l		99
50) 1,1,2-Trichloroethane	10.892	97	9559	2.989	ug/l		92
51) Ethyl methacrylate	10.757	69	14552	2.512	ug/l		91
52) 1,3-Dichloropropane	11.039	76	16495	2.898	ug/l		100
53) Dibromochloromethane	11.233	129	8947	2.536	ug/l		99
54) 1,2-Dibromoethane	11.339	107	9727	2.893	ug/l		98
55) 2-Chloroethyl vinyl ether	10.039	63	27068	11.931	ug/l		95
56) Bromoform	12.457	173	5834	2.373	ug/l	#	99
58) 4-Methyl-2-Pentanone	10.327	43	81657	15.248	ug/l		99
59) 2-Hexanone	11.080	43	57768	14.228	ug/l		98
61) Tetrachloroethene	10.974	164	7690	3.480	ug/l		89
62) Toluene	10.504	91	38784	3.204	ug/l		94
64) Chlorobenzene	11.768	112	21105	2.863	ug/l		97
65) 1,1,1,2-Tetrachloroethane	11.833	131	9521	3.276	ug/l		90
66) Ethyl Benzene	11.839	91	40939	2.945	ug/l		95
67) m/p-Xylenes	11.951	106	29563	5.831	ug/l		98
68) o-Xylene	12.274	106	14943	2.889	ug/l		100
69) Styrene	12.286	104	20035	2.440	ug/l		98
70) Isopropylbenzene	12.574	105	37482	2.773	ug/l		97
71) 1,1,2,2-Tetrachloroethane	12.821	83	12951	2.831	ug/l		99
72) 1,2,3-Trichloropropane	12.874	75	17463m	4.374	ug/l		
73) Bromobenzene	12.857	156	7162	2.607	ug/l		64
74) n-propylbenzene	12.915	91	38720	2.504	ug/l		98
75) 2-Chlorotoluene	13.004	91	26016	2.714	ug/l		92
76) 1,3,5-Trimethylbenzene	13.057	105	28915	2.607	ug/l		98
77) t-1,4-Dichloro-2-butene	12.627	75	3803	2.260	ug/l		82
78) 4-Chlorotoluene	13.104	91	22075	2.438	ug/l		91
79) tert-butylbenzene	13.321	119	25418	2.567	ug/l		93
80) 1,2,4-Trimethylbenzene	13.498	105	33282	2.488	ug/l	#	100
81) sec-Butylbenzene	13.498	105	33282	2.488	ug/l		98
82) p-Isopropyltoluene	13.609	119	24957	2.338	ug/l		97
83) 1,3-Dichlorobenzene	13.615	146	11878	2.470	ug/l		98
84) 1,4-Dichlorobenzene	13.692	146	11267	2.413	ug/l		98
85) n-Butylbenzene	13.939	91	20779	2.295	ug/l		96
86) Hexachloroethane	14.215	117	5805	2.457	ug/l		89
87) 1,2-Dichlorobenzene	13.986	146	12598	2.647	ug/l		98
88) 1,2-Dibromo-3-Chloropr...	14.604	75	2870m	2.502	ug/l		
89) 1,2,4-Trichlorobenzene	15.262	180	5118	2.134	ug/l		94
90) Hexachlorobutadiene	15.368	225	3084	2.866	ug/l		87
91) Naphthalene	15.503	128	17072	1.784	ug/l		99
92) 1,2,3-Trichlorobenzene	15.698	180	4810	1.971	ug/l		90

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

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