

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060722\
 Data File : VN072691.D
 Acq On : 07 Jun 2022 16:31
 Operator : JC\MD
 Sample : N3214-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2022

Quant Time: Jun 08 09:52:46 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 06/08/2022
 Supervised By : Mahesh Dadoda 06/08/2022

Supervised By : Mahesh
 Dadoda
 06/08/2022

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

Internal Standards						
1) Bromochloromethane	7.657	128	36760	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	216188	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	184294	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	127823	30.489	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.633%			
60) 4-Bromofluorobenzene	12.727	95	98514	25.990	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 86.633%			
63) Toluene-d8	10.439	98	330016	32.326	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 107.767%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.069	85	7578	2.752	ug/l	88
3) Chloromethane	2.293	50	9408	3.142	ug/l	93
4) Vinyl Chloride	2.434	62	7801	2.889	ug/l	93
5) Bromomethane	2.846	94	4492	3.217	ug/l #	74
6) Chloroethane	3.004	64	6596	3.664	ug/l #	87
7) Trichlorofluoromethane	3.369	101	11595	2.375	ug/l	97
8) Diethyl Ether	3.822	74	4960	2.621	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.204	101	6374m	2.479	ug/l	
10) 1,1-Dichloroethene	4.175	96	6646	2.736	ug/l	91
11) Methyl Iodide	4.422	142	4975m	2.046	ug/l	
12) Methyl Acetate	4.851	43	18684m	3.729	ug/l	
13) Acrolein	4.046	56	3496m	7.970	ug/l	
14) Acrylonitrile	5.563	53	27448m	13.438	ug/l	
15) Acetone	4.287	58	7920m	14.321	ug/l	
16) Carbon Disulfide	4.528	76	16991	2.775	ug/l	95
17) Allyl chloride	4.828	41	13359	2.546	ug/l	80
18) Methylene Chloride	5.093	84	8900	2.918	ug/l #	72
19) trans-1,2-Dichloroethene	5.598	96	6998m	2.663	ug/l	
20) Diisopropyl ether	6.487	45	28326	2.726	ug/l	96
21) 1,1-Dichloroethane	6.387	63	15280	2.647	ug/l	99
22) cis-1,2-Dichloroethene	7.322	96	8720	2.649	ug/l #	66
23) tert-Butyl Alcohol	5.369	59	16718m	17.588	ug/l	
24) Methyl tert-Butyl Ether	5.610	73	27384	2.535	ug/l #	91
25) Chloroform	7.816	83	15926	2.686	ug/l	92
26) Cyclohexane	8.092	56	12702	2.639	ug/l #	95
29) 1,1-Dichloropropene	8.222	75	10428	2.530	ug/l	95
30) 2-Butanone	7.334	43	44106	14.789	ug/l #	91
31) 2,2-Dichloropropane	7.328	77	7094m	1.272	ug/l	
32) 1,1,1-Trichloroethane	8.016	97	13116	2.432	ug/l #	93
33) Carbon Tetrachloride	8.210	117	11050	2.376	ug/l	89
34) Benzene	8.457	78	32987	2.706	ug/l #	59
35) Methacrylonitrile	7.639	41	7734m	2.645	ug/l	
36) 1,2-Dichloroethane	8.528	62	12987	2.521	ug/l #	93
37) Trichloroethene	9.216	130	7372	2.508	ug/l	96
38) Methylcyclohexane	9.457	83	12015	2.442	ug/l	91
39) 1,2-Dichloropropane	9.486	63	8785	2.623	ug/l	100
40) Dibromomethane	9.575	93	6186	2.690	ug/l	88
41) Bromodichloromethane	9.757	83	12004	2.441	ug/l	90
42) Vinyl Acetate	6.428	43	117972	12.150	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.404	43	15679m	2.744	ug/l	
44) Isopropyl Acetate	8.557	43	24486	2.583	ug/l #	64
45) 1,4-Dioxane	9.575	88	4092	52.534	ug/l #	81
46) Methyl methacrylate	9.557	41	10300	2.430	ug/l	87
47) n-amyl Acetate	12.386	43	13003	1.792	ug/l	97
48) t-1,3-Dichloropropene	10.722	75	11054	1.969	ug/l #	88
49) cis-1,3-Dichloropropene	10.186	75	12155	2.132	ug/l	94
50) 1,1,2-Trichloroethane	10.892	97	8435	2.595	ug/l	89
51) Ethyl methacrylate	10.757	69	14570	2.474	ug/l	86
52) 1,3-Dichloropropane	11.039	76	14816	2.561	ug/l	99
53) Dibromochloromethane	11.239	129	8285	2.310	ug/l	100
54) 1,2-Dibromoethane	11.345	107	8395	2.456	ug/l	92
55) 2-Chloroethyl vinyl ether	10.039	63	25292	10.967	ug/l	98
56) Bromoform	12.457	173	5213	2.086	ug/l #	99
58) 4-Methyl-2-Pentanone	10.327	43	80891	14.634	ug/l	95
59) 2-Hexanone	11.086	43	55818	13.319	ug/l	95
61) Tetrachloroethene	10.974	164	6901	3.026	ug/l	93
62) Toluene	10.504	91	34144	2.732	ug/l	98
64) Chlorobenzene	11.769	112	19407	2.551	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.833	131	7813	2.605	ug/l	95
66) Ethyl Benzene	11.839	91	36607	2.552	ug/l	94
67) m/p-Xylenes	11.951	106	25097	4.796	ug/l	94
68) o-Xylene	12.274	106	12627	2.365	ug/l	88
69) Styrene	12.292	104	17712	2.090	ug/l	92
70) Isopropylbenzene	12.574	105	32203	2.309	ug/l	95
71) 1,1,2,2-Tetrachloroethane	12.827	83	12226	2.589	ug/l	96
72) 1,2,3-Trichloropropane	12.880	75	10926m	2.651	ug/l	
73) Bromobenzene	12.863	156	6560	2.313	ug/l	75
74) n-propylbenzene	12.916	91	32194	2.017	ug/l	97
75) 2-Chlorotoluene	13.004	91	22157	2.239	ug/l	94
76) 1,3,5-Trimethylbenzene	13.057	105	25152	2.197	ug/l	99
77) t-1,4-Dichloro-2-butene	12.621	75	2794	1.609	ug/l	96
78) 4-Chlorotoluene	13.104	91	18886	2.021	ug/l	93
79) tert-butylbenzene	13.321	119	24135	2.361	ug/l	99
80) 1,2,4-Trimethylbenzene	13.498	105	29188	2.114	ug/l #	100
81) sec-Butylbenzene	13.498	105	29188	2.114	ug/l	98
82) p-Isopropyltoluene	13.616	119	20779	1.886	ug/l	96
83) 1,3-Dichlorobenzene	13.616	146	10019	2.018	ug/l	96
84) 1,4-Dichlorobenzene	13.692	146	9508	1.973	ug/l	95
85) n-Butylbenzene	13.939	91	15458	1.654	ug/l	94
86) Hexachloroethane	14.210	117	5476	2.245	ug/l	79
87) 1,2-Dichlorobenzene	13.986	146	10281	2.093	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.604	75	2903	2.452	ug/l #	76
89) 1,2,4-Trichlorobenzene	15.262	180	4237	1.711	ug/l	93
90) Hexachlorobutadiene	15.368	225	2024	1.822	ug/l #	49
91) Naphthalene	15.504	128	14763	1.494	ug/l #	94
92) 1,2,3-Trichlorobenzene	15.704	180	3989	1.584	ug/l	96

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

