

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032622\
 Data File : VN071566.D
 Acq On : 26 Mar 2022 11:23
 Operator : JC\MD
 Sample : N1645-09
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT1-2022

Quant Time: Mar 28 01:42:42 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032422W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Mar 28 01:40:30 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 03/28/2022
 Supervised By : Mahesh Dadoda 03/28/2022

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

Internal Standards						
1) Bromochloromethane	7.651	128	100473	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	551509	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.739	117	475654	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	214372	30.283	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.933%			
60) 4-Bromofluorobenzene	12.727	95	182182	25.831	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 86.100%			
63) Toluene-d8	10.439	98	673244	31.180	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.933%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.069	85	12446	1.990	ug/l	86
3) Chloromethane	2.298	50	15429	2.093	ug/l	95
4) Vinyl Chloride	2.440	62	17847	2.111	ug/l	100
5) Bromomethane	2.845	94	13371	2.684	ug/l	93
6) Chloroethane	3.016	64	12476	2.305	ug/l	89
7) Trichlorofluoromethane	3.369	101	19176	1.946	ug/l	95
8) Diethyl Ether	3.822	74	7799	1.883	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.216	101	12881m	2.182	ug/l	
10) 1,1-Dichloroethene	4.187	96	11601	1.993	ug/l	98
11) Methyl Iodide	4.428	142	16240	1.904	ug/l #	84
12) Methyl Acetate	4.851	43	25273	3.081	ug/l	94
13) Acrolein	4.040	56	8455	9.688	ug/l #	75
14) Acrylonitrile	5.551	53	36481	9.819	ug/l	95
15) Acetone	4.287	58	9824	9.188	ug/l	84
16) Carbon Disulfide	4.534	76	29574	1.951	ug/l #	94
17) Allyl chloride	4.839	41	16187	1.714	ug/l	87
18) Methylene Chloride	5.092	84	15458	2.214	ug/l	91
19) trans-1,2-Dichloroethene	5.604	96	12650	2.032	ug/l	86
20) Diisopropyl ether	6.486	45	37565	1.902	ug/l #	94
21) 1,1-Dichloroethane	6.386	63	23942	2.007	ug/l #	96
22) cis-1,2-Dichloroethene	7.322	96	15408	2.037	ug/l #	88
23) tert-Butyl Alcohol	5.375	59	11888m	8.967	ug/l	
24) Methyl tert-Butyl Ether	5.610	73	39094	1.861	ug/l #	90
25) Chloroform	7.816	83	24041	2.004	ug/l	99
26) Cyclohexane	8.092	56	18884	1.832	ug/l #	99
29) 1,1-Dichloropropene	8.216	75	16413	1.839	ug/l	88
30) 2-Butanone	7.333	43	47578	9.575	ug/l	98
31) 2,2-Dichloropropane	7.322	77	19660	1.933	ug/l #	61
32) 1,1,1-Trichloroethane	8.010	97	20354	1.958	ug/l	97
33) Carbon Tetrachloride	8.204	117	16430	1.867	ug/l	89
34) Benzene	8.457	78	56912	2.052	ug/l #	74
35) Methacrylonitrile	7.633	41	7371	1.546	ug/l	88
36) 1,2-Dichloroethane	8.527	62	19957	2.063	ug/l #	95
37) Trichloroethene	9.210	130	14327	2.002	ug/l #	79
38) Methylcyclohexane	9.457	83	19711	1.752	ug/l	94
39) 1,2-Dichloropropane	9.486	63	13302	1.917	ug/l	90
40) Dibromomethane	9.569	93	9708	2.067	ug/l	87
41) Bromodichloromethane	9.763	83	17526	1.865	ug/l #	90
42) Vinyl Acetate	6.428	43	147832	8.683	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.416	43	19367	2.010	ug/l #	93
44) Isopropyl Acetate	8.557	43	43883	2.840	ug/l #	80
45) 1,4-Dioxane	9.563	88	5690	36.493	ug/l #	95
46) Methyl methacrylate	9.557	41	11869	1.751	ug/l	86
47) n-amyl Acetate	12.386	43	13943	1.352	ug/l	93
48) t-1,3-Dichloropropene	10.716	75	17763	1.739	ug/l	100
49) cis-1,3-Dichloropropene	10.186	75	19574	1.752	ug/l #	81
50) 1,1,2-Trichloroethane	10.898	97	13861	1.974	ug/l	91
51) Ethyl methacrylate	10.757	69	16735	1.544	ug/l	87
52) 1,3-Dichloropropane	11.039	76	23927	1.995	ug/l	100
53) Dibromochloromethane	11.233	129	13622	1.874	ug/l	98
54) 1,2-Dibromoethane	11.339	107	14396	1.993	ug/l	98
55) 2-Chloroethyl vinyl ether	10.039	63	13866	4.747	ug/l	96
56) Bromoform	12.457	173	9636	1.719	ug/l #	95
58) 4-Methyl-2-Pentanone	10.327	43	83011	9.194	ug/l	97
59) 2-Hexanone	11.080	43	56897	8.631	ug/l	93
61) Tetrachloroethene	10.974	164	12550	2.168	ug/l	94
62) Toluene	10.504	91	60509	2.098	ug/l	98
64) Chlorobenzene	11.768	112	35909	2.018	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.833	131	13264	2.032	ug/l	95
66) Ethyl Benzene	11.845	91	56550	1.804	ug/l	97
67) m/p-Xylenes	11.951	106	40307	3.306	ug/l	98
68) o-Xylene	12.274	106	20787	1.715	ug/l	98
69) Styrene	12.292	104	28692	1.504	ug/l	98
70) Isopropylbenzene	12.574	105	48566	1.597	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.821	83	20476	2.068	ug/l	97
72) 1,2,3-Trichloropropane	12.874	75	16134m	1.897	ug/l	
73) Bromobenzene	12.857	156	13741	1.852	ug/l	99
74) n-propylbenzene	12.915	91	51018	1.537	ug/l	98
75) 2-Chlorotoluene	13.004	91	36190	1.744	ug/l	100
76) 1,3,5-Trimethylbenzene	13.057	105	38789	1.590	ug/l	95
77) t-1,4-Dichloro-2-butene	12.621	75	4125	1.381	ug/l	79
78) 4-Chlorotoluene	13.104	91	30454	1.572	ug/l	99
79) tert-butylbenzene	13.321	119	36428	1.654	ug/l	95
80) 1,2,4-Trimethylbenzene	13.362	105	35371	1.494	ug/l #	80
81) sec-Butylbenzene	13.498	105	46317	1.565	ug/l	98
82) p-Isopropyltoluene	13.615	119	32852	1.367	ug/l	98
83) 1,3-Dichlorobenzene	13.610	146	20614	1.698	ug/l	98
84) 1,4-Dichlorobenzene	13.692	146	18888	1.630	ug/l	97
85) n-Butylbenzene	13.939	91	24244	1.358	ug/l	99
86) Hexachloroethane	14.209	117	7449	1.659	ug/l	71
87) 1,2-Dichlorobenzene	13.986	146	19458	1.658	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.598	75	2963	1.682	ug/l	93
89) 1,2,4-Trichlorobenzene	15.262	180	6071	1.119	ug/l	97
90) Hexachlorobutadiene	15.368	225	6675	2.076	ug/l	94
91) Naphthalene	15.504	128	10326	0.684	ug/l #	94
92) 1,2,3-Trichlorobenzene	15.692	180	5541	1.041	ug/l	93

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

