

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060722\
 Data File : VN072692.D
 Acq On : 07 Jun 2022 16:55
 Operator : JC\MD
 Sample : N3214-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOQ-WATER-02-QT2-2022

Quant Time: Jun 08 09:53:08 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

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

Internal Standards						
1) Bromochloromethane	7.651	128	38235	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.963	114	231462	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.739	117	205598	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.433	65	135473	31.067	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	103.567%		
60) 4-Bromofluorobenzene	12.727	95	110580	26.150	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	87.167%		
63) Toluene-d8	10.439	98	352301	30.933	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	103.100%		
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.069	85	15792	5.513	ug/l	90
3) Chloromethane	2.293	50	18807	6.038	ug/l	99
4) Vinyl Chloride	2.434	62	16746	5.963	ug/l	94
5) Bromomethane	2.834	94	8814	6.069	ug/l	90
6) Chloroethane	3.004	64	10409	5.559	ug/l	94
7) Trichlorofluoromethane	3.357	101	25702	5.062	ug/l	94
8) Diethyl Ether	3.822	74	10835	5.504	ug/l	87
9) 1,1,2-Trichlorotrifluo...	4.210	101	12956m	4.844	ug/l	
10) 1,1-Dichloroethene	4.169	96	13597	5.382	ug/l	# 89
11) Methyl Iodide	4.416	142	11310m	4.472	ug/l	
12) Methyl Acetate	4.857	43	35500	6.811	ug/l	100
13) Acrolein	4.040	56	9600	21.042	ug/l	# 56
14) Acrylonitrile	5.551	53	59124	27.829	ug/l	97
15) Acetone	4.287	58	17422	30.287	ug/l	92
16) Carbon Disulfide	4.522	76	34919	5.483	ug/l	100
17) Allyl chloride	4.828	41	27949m	5.121	ug/l	
18) Methylene Chloride	5.098	84	18303m	5.770	ug/l	
19) trans-1,2-Dichloroethene	5.592	96	14759	5.399	ug/l	82
20) Diisopropyl ether	6.492	45	58712	5.432	ug/l	96
21) 1,1-Dichloroethane	6.381	63	31423	5.233	ug/l	99
22) cis-1,2-Dichloroethene	7.322	96	18133	5.295	ug/l	92
23) tert-Butyl Alcohol	5.369	59	31943	32.309	ug/l	# 100
24) Methyl tert-Butyl Ether	5.610	73	58794	5.233	ug/l	95
25) Chloroform	7.816	83	32331	5.242	ug/l	96
26) Cyclohexane	8.098	56	28196	5.632	ug/l	# 91
29) 1,1-Dichloropropene	8.216	75	23143	5.245	ug/l	93
30) 2-Butanone	7.333	43	89996	28.184	ug/l	# 90
31) 2,2-Dichloropropane	7.316	77	15138	2.535	ug/l	# 83
32) 1,1,1-Trichloroethane	8.016	97	29112	5.043	ug/l	95
33) Carbon Tetrachloride	8.204	117	23620	4.744	ug/l	89
34) Benzene	8.457	78	69418	5.318	ug/l	# 81
35) Methacrylonitrile	7.633	41	14751	4.711	ug/l	92
36) 1,2-Dichloroethane	8.528	62	27978	5.073	ug/l	98
37) Trichloroethene	9.216	130	15941	5.066	ug/l	97
38) Methylcyclohexane	9.457	83	26002	4.937	ug/l	91
39) 1,2-Dichloropropane	9.486	63	19020	5.304	ug/l	94
40) Dibromomethane	9.575	93	12826	5.210	ug/l	93
41) Bromodichloromethane	9.757	83	25185	4.783	ug/l	# 93
42) Vinyl Acetate	6.434	43	256136	24.639	ug/l	# 89

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43) Ethyl Acetate	7.410	43	37276m	6.093	ug/l	
44) Isopropyl Acetate	8.563	43	52813	5.204	ug/l	97
45) 1,4-Dioxane	9.569	88	9662	115.858	ug/l #	88
46) Methyl methacrylate	9.557	41	23899	5.267	ug/l	84
47) n-amyl Acetate	12.386	43	33416	4.301	ug/l	96
48) t-1,3-Dichloropropene	10.716	75	24509	4.078	ug/l	96
49) cis-1,3-Dichloropropene	10.186	75	25283	4.142	ug/l	93
50) 1,1,2-Trichloroethane	10.898	97	18137	5.211	ug/l	96
51) Ethyl methacrylate	10.757	69	30505	4.839	ug/l	92
52) 1,3-Dichloropropane	11.045	76	33012	5.330	ug/l	97
53) Dibromochloromethane	11.233	129	18291	4.763	ug/l	98
54) 1,2-Dibromoethane	11.345	107	18641	5.094	ug/l	95
55) 2-Chloroethyl vinyl ether	10.039	63	56214	22.767	ug/l	97
56) Bromoform	12.457	173	11747	4.390	ug/l #	100
58) 4-Methyl-2-Pentanone	10.327	43	171493	27.810	ug/l	98
59) 2-Hexanone	11.086	43	127951	27.368	ug/l	99
61) Tetrachloroethene	10.974	164	14219	5.588	ug/l	93
62) Toluene	10.504	91	74317	5.331	ug/l	98
64) Chlorobenzene	11.768	112	42816	5.045	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.839	131	17127	5.118	ug/l	97
66) Ethyl Benzene	11.845	91	80560	5.033	ug/l	97
67) m/p-Xylenes	11.951	106	57775	9.897	ug/l	96
68) o-Xylene	12.280	106	29626	4.975	ug/l	95
69) Styrene	12.292	104	42588	4.505	ug/l	95
70) Isopropylbenzene	12.574	105	75532	4.854	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.827	83	28087	5.332	ug/l	97
72) 1,2,3-Trichloropropane	12.880	75	26393m	5.741	ug/l	
73) Bromobenzene	12.857	156	14268	4.510	ug/l	68
74) n-propylbenzene	12.915	91	77683	4.362	ug/l	97
75) 2-Chlorotoluene	13.004	91	52325	4.740	ug/l	91
76) 1,3,5-Trimethylbenzene	13.057	105	59504	4.659	ug/l	98
77) t-1,4-Dichloro-2-butene	12.621	75	6241	3.221	ug/l	78
78) 4-Chlorotoluene	13.104	91	43406	4.163	ug/l	92
79) tert-butylbenzene	13.321	119	52613	4.614	ug/l	96
80) 1,2,4-Trimethylbenzene	13.498	105	67527	4.385	ug/l #	100
81) sec-Butylbenzene	13.498	105	67527	4.385	ug/l	98
82) p-Isopropyltoluene	13.615	119	49550	4.030	ug/l	96
83) 1,3-Dichlorobenzene	13.615	146	23116	4.174	ug/l	96
84) 1,4-Dichlorobenzene	13.692	146	22466	4.178	ug/l	97
85) n-Butylbenzene	13.939	91	39021	3.743	ug/l	98
86) Hexachloroethane	14.210	117	11631	4.275	ug/l	87
87) 1,2-Dichlorobenzene	13.986	146	24162	4.408	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.598	75	5990	4.535	ug/l	85
89) 1,2,4-Trichlorobenzene	15.256	180	9665	3.499	ug/l	97
90) Hexachlorobutadiene	15.362	225	5011	4.044	ug/l	99
91) Naphthalene	15.504	128	38208	3.467	ug/l	97
92) 1,2,3-Trichlorobenzene	15.698	180	11245	4.002	ug/l	91

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

