

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071521\
 Data File : VN067765.D
 Acq On : 15 Jul 2021 16:31
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/16/2021 10:40:31 AM

Quant Time: Jul 16 03:02:37 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N071421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 14 01:19:19 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	72200	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	420422	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	402849	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	182783	31.336	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.467%			
60) 4-Bromofluorobenzene	12.733	95	192099	29.362	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.867%			
63) Toluene-d8	10.443	98	546696	29.505	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.367%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.073	85	76543	20.745	ug/l	100
3) Chloromethane	2.303	50	93535	20.296	ug/l	99
4) Vinyl Chloride	2.443	62	143208	19.975	ug/l	97
5) Bromomethane	2.856	94	116293	19.481	ug/l	95
6) Chloroethane	3.019	64	105611	19.781	ug/l	98
7) Trichlorofluoromethane	3.371	101	265254	19.939	ug/l	98
8) Diethyl Ether	3.819	74	51861	20.957	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.199	101	78014	20.631	ug/l	97
10) 1,1-Dichloroethene	4.175	96	68087	19.441	ug/l	93
11) Methyl Iodide	4.417	142	86295	18.637	ug/l	99
12) Methyl Acetate	4.854	43	91807	19.205	ug/l	95
13) Acrolein	4.041	56	49032	97.922	ug/l #	42
14) Acrylonitrile	5.557	53	195938	93.215	ug/l	100
15) Acetone	4.285	58	48869	93.787	ug/l	90
16) Carbon Disulfide	4.521	76	178244	19.272	ug/l	97
17) Allyl chloride	4.835	41	117379	19.046	ug/l	97
18) Methylene Chloride	5.098	84	88682	18.297	ug/l	97
19) trans-1,2-Dichloroethene	5.591	96	77295	18.509	ug/l	98
20) Diisopropyl ether	6.495	45	267436	18.327	ug/l	98
21) 1,1-Dichloroethane	6.385	63	150240	18.716	ug/l	98
22) cis-1,2-Dichloroethene	7.324	96	95536	18.539	ug/l	98
23) tert-Butyl Alcohol	5.382	59	72641	93.753	ug/l #	100
24) Methyl tert-Butyl Ether	5.616	73	272061	18.814	ug/l	99
25) Chloroform	7.817	83	169581	18.984	ug/l	99
26) Cyclohexane	8.091	56	126719	18.117	ug/l #	99
29) 1,1-Dichloropropene	8.220	75	120829	18.317	ug/l	100
30) 2-Butanone	7.340	43	270921	88.691	ug/l	99
31) 2,2-Dichloropropane	7.324	77	134923	18.334	ug/l #	80
32) 1,1,1-Trichloroethane	8.013	97	149880	18.503	ug/l	97
33) Carbon Tetrachloride	8.204	117	124497	18.000	ug/l	95
34) Benzene	8.458	78	360017	18.259	ug/l	99
35) Methacrylonitrile	7.638	41	59504	18.950	ug/l	96
36) 1,2-Dichloroethane	8.528	62	134036	18.261	ug/l	98
37) Trichloroethene	9.215	130	92234	18.006	ug/l	96
38) Methylcyclohexane	9.459	83	131465	17.994	ug/l	99
39) 1,2-Dichloropropane	9.491	63	90358	17.970	ug/l	99
40) Dibromomethane	9.579	93	64496	17.837	ug/l	98
41) Bromodichloromethane	9.762	83	129845	18.294	ug/l	99
42) Vinyl Acetate	6.434	43	1128884	92.894	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.415	43	99692	16.143	ug/l	99
44) Isopropyl Acetate	8.563	43	197619	17.624	ug/l	98
45) 1,4-Dioxane	9.574	88	31097	366.221	ug/l	96
46) Methyl methacrylate	9.561	41	85624	17.689	ug/l	99
47) n-amyl Acetate	12.390	43	160859	17.476	ug/l	99
48) t-1,3-Dichloropropene	10.719	75	133724	17.483	ug/l	94
49) cis-1,3-Dichloropropene	10.191	75	144904	17.847	ug/l	97
50) 1,1,2-Trichloroethane	10.899	97	90835	17.604	ug/l	96
51) Ethyl methacrylate	10.762	69	140775	17.544	ug/l	95
52) 1,3-Dichloropropane	11.047	76	152862	17.916	ug/l	99
53) Dibromochloromethane	11.240	129	92988	17.215	ug/l	100
54) 1,2-Dibromoethane	11.347	107	95087	17.865	ug/l	100
55) 2-Chloroethyl vinyl ether	10.043	63	244356	157.451	ug/l	98
56) Bromoform	12.460	173	59927	15.835	ug/l #	100
58) 4-Methyl-2-Pentanone	10.333	43	608349	87.946	ug/l	99
59) 2-Hexanone	11.087	43	423648	87.349	ug/l	99
61) Tetrachloroethene	10.979	164	92599	18.712	ug/l	96
62) Toluene	10.507	91	411972	17.386	ug/l	98
64) Chlorobenzene	11.773	112	247750	17.458	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	91674	17.534	ug/l	99
66) Ethyl Benzene	11.846	91	457966	17.466	ug/l	99
67) m/p-Xylenes	11.956	106	351471	35.143	ug/l	99
68) o-Xylene	12.283	106	173730	17.598	ug/l	98
69) Styrene	12.296	104	283440	17.362	ug/l	100
70) Isopropylbenzene	12.581	105	450707	17.691	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.830	83	127029	17.562	ug/l	99
72) 1,2,3-Trichloropropane	12.884	75	115459m	19.200	ug/l	
73) Bromobenzene	12.862	156	99246	16.949	ug/l	99
74) n-propylbenzene	12.924	91	527488	18.069	ug/l	100
75) 2-Chlorotoluene	13.010	91	310162	17.702	ug/l	98
76) 1,3,5-Trimethylbenzene	13.061	105	378141	18.028	ug/l	99
77) t-1,4-Dichloro-2-butene	12.626	75	33554	16.534	ug/l	94
78) 4-Chlorotoluene	13.106	91	314829	18.022	ug/l	99
79) tert-butylbenzene	13.326	119	318669	17.694	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	375213m	18.014	ug/l	
81) sec-Butylbenzene	13.503	105	450076	18.015	ug/l	99
82) p-Isopropyltoluene	13.619	119	368944	17.743	ug/l	99
83) 1,3-Dichlorobenzene	13.619	146	189920	17.367	ug/l	100
84) 1,4-Dichlorobenzene	13.696	146	185805	17.443	ug/l	100
85) n-Butylbenzene	13.946	91	313149	18.153	ug/l	99
86) Hexachloroethane	14.214	117	61321	17.727	ug/l	99
87) 1,2-Dichlorobenzene	13.991	146	184010	17.625	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.605	75	23900	18.468	ug/l	99
89) 1,2,4-Trichlorobenzene	15.265	180	86239	18.117	ug/l	99
90) Hexachlorobutadiene	15.373	225	39194	17.130	ug/l	96
91) Naphthalene	15.507	128	261636	19.347	ug/l	99
92) 1,2,3-Trichlorobenzene	15.705	180	82759	18.147	ug/l	99

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

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