

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071521\
 Data File : VN067756.D
 Acq On : 15 Jul 2021 10:34
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 7/16/2021 10:40:19 AM

Quant Time: Jul 15 16:11:41 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	69550	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	407126	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	381175	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	182860	32.544	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.467%			
60) 4-Bromofluorobenzene	12.733	95	185059	29.895	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.633%			
63) Toluene-d8	10.443	98	542388	30.937	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.133%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.070	85	74728	21.024	ug/l	99
3) Chloromethane	2.301	50	95403	21.490	ug/l	96
4) Vinyl Chloride	2.443	62	155455	22.509	ug/l	97
5) Bromomethane	2.853	94	126836	22.056	ug/l	100
6) Chloroethane	3.019	64	119878	23.308	ug/l	97
7) Trichlorofluoromethane	3.371	101	299581	23.377	ug/l	95
8) Diethyl Ether	3.821	74	61167m	25.659	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.202	101	83245	22.853	ug/l	99
10) 1,1-Dichloroethene	4.175	96	71091	21.072	ug/l	99
11) Methyl Iodide	4.414	142	88317	19.800	ug/l	97
12) Methyl Acetate	4.859	43	98754	21.445	ug/l	95
13) Acrolein	4.038	56	50022	103.706	ug/l #	45
14) Acrylonitrile	5.556	53	212290	104.842	ug/l	99
15) Acetone	4.291	58	72051	143.545	ug/l	95
16) Carbon Disulfide	4.521	76	175659	19.717	ug/l	99
17) Allyl chloride	4.835	41	122773	20.681	ug/l	95
18) Methylene Chloride	5.095	84	93552	20.037	ug/l	98
19) trans-1,2-Dichloroethene	5.591	96	82148	20.421	ug/l	96
20) Diisopropyl ether	6.498	45	292550	20.812	ug/l	98
21) 1,1-Dichloroethane	6.385	63	164926	21.328	ug/l	100
22) cis-1,2-Dichloroethene	7.327	96	100721	20.290	ug/l	100
23) tert-Butyl Alcohol	5.385	59	74357	99.624	ug/l #	100
24) Methyl tert-Butyl Ether	5.621	73	285890	20.524	ug/l	100
25) Chloroform	7.820	83	184576	21.450	ug/l	95
26) Cyclohexane	8.096	56	140964	20.921	ug/l #	99
29) 1,1-Dichloropropene	8.222	75	132304	20.712	ug/l	99
30) 2-Butanone	7.340	43	328061	110.904	ug/l	100
31) 2,2-Dichloropropane	7.324	77	147823	20.743	ug/l #	72
32) 1,1,1-Trichloroethane	8.013	97	158370	20.189	ug/l	100
33) Carbon Tetrachloride	8.204	117	133865	19.986	ug/l	96
34) Benzene	8.461	78	398987	20.896	ug/l	99
35) Methacrylonitrile	7.638	41	66052m	21.722	ug/l	
36) 1,2-Dichloroethane	8.531	62	151703	21.343	ug/l	99
37) Trichloroethene	9.217	130	100422	20.244	ug/l	99
38) Methylcyclohexane	9.459	83	142930	20.202	ug/l	99
39) 1,2-Dichloropropane	9.491	63	100270	20.593	ug/l	99
40) Dibromomethane	9.579	93	72103	20.592	ug/l	99
41) Bromodichloromethane	9.764	83	140620	20.459	ug/l	99
42) Vinyl Acetate	6.436	43	1213783	103.142	ug/l	97

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071521\
 Data File : VN067756.D
 Acq On : 15 Jul 2021 10:34
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 7/16/2021 10:40:19 AM

Quant Time: Jul 15 16:11:41 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)
43) Ethyl Acetate	7.415	43	113254	18.938	ug/l	100
44) Isopropyl Acetate	8.563	43	216288	19.919	ug/l	100
45) 1,4-Dioxane	9.571	88	32112	390.524	ug/l	99
46) Methyl methacrylate	9.563	41	91906	19.606	ug/l	98
47) n-amyl Acetate	12.390	43	163203	18.310	ug/l	99
48) t-1,3-Dichloropropene	10.722	75	141897	19.157	ug/l	91
49) cis-1,3-Dichloropropene	10.191	75	154314	19.627	ug/l	98
50) 1,1,2-Trichloroethane	10.902	97	101969	20.407	ug/l	97
51) Ethyl methacrylate	10.762	69	148159	19.067	ug/l	99
52) 1,3-Dichloropropane	11.046	76	165473	20.028	ug/l	98
53) Dibromochloromethane	11.240	129	100192	19.155	ug/l	98
54) 1,2-Dibromoethane	11.349	107	101465	19.686	ug/l	99
55) 2-Chloroethyl vinyl ether	10.043	63	96364	64.120	ug/l	100
56) Bromoform	12.460	173	62238	16.983	ug/l #	99
58) 4-Methyl-2-Pentanone	10.333	43	676899	103.420	ug/l	99
59) 2-Hexanone	11.089	43	488388	106.423	ug/l	100
61) Tetrachloroethene	10.979	164	101951	21.774	ug/l	98
62) Toluene	10.507	91	457891	20.423	ug/l	98
64) Chlorobenzene	11.773	112	271312	20.205	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	99647	20.143	ug/l	99
66) Ethyl Benzene	11.846	91	506517	20.416	ug/l	100
67) m/p-Xylenes	11.956	106	389485	41.159	ug/l	99
68) o-Xylene	12.283	106	189242	20.259	ug/l	99
69) Styrene	12.296	104	308550	19.975	ug/l	100
70) Isopropylbenzene	12.580	105	490419	20.344	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.830	83	141049	20.609	ug/l	100
72) 1,2,3-Trichloropropane	12.884	75	129115m	22.692	ug/l	
73) Bromobenzene	12.862	156	106408	19.205	ug/l	99
74) n-propylbenzene	12.924	91	572268	20.718	ug/l	100
75) 2-Chlorotoluene	13.010	91	341730	20.612	ug/l	99
76) 1,3,5-Trimethylbenzene	13.061	105	414330	20.877	ug/l	100
77) t-1,4-Dichloro-2-butene	12.626	75	34512	17.973	ug/l	98
78) 4-Chlorotoluene	13.109	91	336500	20.358	ug/l	99
79) tert-butylbenzene	13.326	119	343108	20.135	ug/l	99
80) 1,2,4-Trimethylbenzene	13.372	105	405048m	20.553	ug/l	
81) sec-Butylbenzene	13.503	105	482508	20.412	ug/l	99
82) p-Isopropyltoluene	13.618	119	387802	19.711	ug/l	99
83) 1,3-Dichlorobenzene	13.618	146	202466	19.567	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	195767	19.423	ug/l	99
85) n-Butylbenzene	13.946	91	320142	19.613	ug/l	100
86) Hexachloroethane	14.214	117	61102	18.668	ug/l	99
87) 1,2-Dichlorobenzene	13.991	146	189965	19.230	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.603	75	23253	18.990	ug/l	97
89) 1,2,4-Trichlorobenzene	15.268	180	74962	16.643	ug/l	98
90) Hexachlorobutadiene	15.370	225	40661	18.782	ug/l	95
91) Naphthalene	15.507	128	185441	14.492	ug/l	99
92) 1,2,3-Trichlorobenzene	15.702	180	71694	16.614	ug/l	98

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

