

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN070121\
 Data File : VN067602.D
 Acq On : 1 Jul 2021 17:32
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/5/2021 2:01:27 PM

Quant Time: Jul 02 06:47:56 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N070121W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 01 12:09:22 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	66255	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	384223	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	352420	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	169937	31.740	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.800%			
60) 4-Bromofluorobenzene	12.734	95	166256	28.999	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.667%			
63) Toluene-d8	10.446	98	496767	30.806	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.700%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.073	85	72508	17.672	ug/l	99
3) Chloromethane	2.303	50	101633	20.578	ug/l	99
4) Vinyl Chloride	2.443	62	152364	19.600	ug/l	94
5) Bromomethane	2.859	94	133304	21.258	ug/l	94
6) Chloroethane	3.019	64	116799	20.375	ug/l	90
7) Trichlorofluoromethane	3.374	101	285450	19.261	ug/l	97
8) Diethyl Ether	3.816	74	81385	21.110	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.200	101	58208	17.842	ug/l	97
10) 1,1-Dichloroethene	4.175	96	57407	17.832	ug/l	92
11) Methyl Iodide	4.411	142	69561	16.227	ug/l	89
12) Methyl Acetate	4.859	43	78508	19.005	ug/l	98
13) Acrolein	4.041	56	58405	100.258	ug/l	100
14) Acrylonitrile	5.562	53	183756	95.765	ug/l	100
15) Acetone	4.293	58	46434	103.305	ug/l	77
16) Carbon Disulfide	4.521	76	156782	16.956	ug/l	98
17) Allyl chloride	4.841	41	98363	17.328	ug/l	91
18) Methylene Chloride	5.093	84	80344	19.236	ug/l	91
19) trans-1,2-Dichloroethene	5.597	96	67534	17.447	ug/l	86
20) Diisopropyl ether	6.503	45	257484	18.756	ug/l	96
21) 1,1-Dichloroethane	6.385	63	137521	18.756	ug/l	95
22) cis-1,2-Dichloroethene	7.329	96	86368	18.245	ug/l	89
23) tert-Butyl Alcohol	5.396	59	63819	87.405	ug/l #	100
24) Methyl tert-Butyl Ether	5.624	73	247327	18.285	ug/l	96
25) Chloroform	7.820	83	150422	18.202	ug/l	98
26) Cyclohexane	8.094	56	113564	17.146	ug/l #	90
29) 1,1-Dichloropropene	8.220	75	104334	17.329	ug/l	97
30) 2-Butanone	7.343	43	259021	94.278	ug/l	97
31) 2,2-Dichloropropane	7.324	77	95176	14.849	ug/l	93
32) 1,1,1-Trichloroethane	8.016	97	127300	16.872	ug/l	98
33) Carbon Tetrachloride	8.209	117	103524	16.186	ug/l	98
34) Benzene	8.461	78	328334	17.689	ug/l	98
35) Methacrylonitrile	7.638	41	54929	18.384	ug/l	95
36) 1,2-Dichloroethane	8.534	62	126396	18.511	ug/l	99
37) Trichloroethene	9.218	130	80773	17.387	ug/l	92
38) Methylcyclohexane	9.462	83	111692	16.687	ug/l	93
39) 1,2-Dichloropropane	9.494	63	84900	18.296	ug/l	99
40) Dibromomethane	9.580	93	61788	18.007	ug/l	93
41) Bromodichloromethane	9.765	83	116792	17.540	ug/l	98
42) Vinyl Acetate	6.436	43	1082723	89.978	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.421	43	107037	17.949	ug/l #	74
44) Isopropyl Acetate	8.566	43	197894	18.728	ug/l #	60
45) 1,4-Dioxane	9.574	88	28777	347.208	ug/l #	89
46) Methyl methacrylate	9.566	41	83539	18.456	ug/l	95
47) n-amyl Acetate	12.390	43	146268	16.459	ug/l	96
48) t-1,3-Dichloropropene	10.722	75	115229	16.085	ug/l	97
49) cis-1,3-Dichloropropene	10.194	75	122711	16.249	ug/l	97
50) 1,1,2-Trichloroethane	10.902	97	86911	17.927	ug/l	98
51) Ethyl methacrylate	10.765	69	131574	17.225	ug/l	95
52) 1,3-Dichloropropane	11.049	76	141610	17.682	ug/l	98
53) Dibromochloromethane	11.240	129	83832	16.047	ug/l	99
54) 1,2-Dibromoethane	11.350	107	87486	17.294	ug/l	100
55) 2-Chloroethyl vinyl ether	10.044	63	124552	76.655	ug/l	98
56) Bromoform	12.460	173	52326	14.387	ug/l #	96
58) 4-Methyl-2-Pentanone	10.336	43	610940	99.617	ug/l	99
59) 2-Hexanone	11.090	43	409349	95.818	ug/l	96
61) Tetrachloroethene	10.982	164	77314	17.806	ug/l	99
62) Toluene	10.508	91	371903	17.941	ug/l	99
64) Chlorobenzene	11.773	112	215333	17.532	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.843	131	79328	17.332	ug/l	97
66) Ethyl Benzene	11.849	91	397269	17.389	ug/l	97
67) m/p-Xylenes	11.956	106	301259	33.968	ug/l	87
68) o-Xylene	12.283	106	150860	17.074	ug/l	89
69) Styrene	12.299	104	241373	16.633	ug/l	93
70) Isopropylbenzene	12.581	105	385329	17.045	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.830	83	120621	18.554	ug/l	100
72) 1,2,3-Trichloropropane	12.884	75	110123m	19.464	ug/l	
73) Bromobenzene	12.865	156	84074	16.407	ug/l	80
74) n-propylbenzene	12.924	91	429477	16.809	ug/l	97
75) 2-Chlorotoluene	13.013	91	267234	17.395	ug/l #	100
76) 1,3,5-Trimethylbenzene	13.063	105	315067	16.877	ug/l	97
77) t-1,4-Dichloro-2-butene	12.629	75	26878	14.490	ug/l	99
78) 4-Chlorotoluene	13.109	91	255913	16.749	ug/l	92
79) tert-butylbenzene	13.326	119	261677	16.665	ug/l	90
80) 1,2,4-Trimethylbenzene	13.372	105	310932m	16.907	ug/l	
81) sec-Butylbenzene	13.506	105	354463	16.419	ug/l	97
82) p-Isopropyltoluene	13.619	119	283459	16.011	ug/l	95
83) 1,3-Dichlorobenzene	13.619	146	153994	16.191	ug/l	94
84) 1,4-Dichlorobenzene	13.696	146	149049	16.180	ug/l	95
85) n-Butylbenzene	13.946	91	227995	15.583	ug/l	98
86) Hexachloroethane	14.214	117	45092	14.932	ug/l	98
87) 1,2-Dichlorobenzene	13.991	146	152552	16.645	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.606	75	20004	17.213	ug/l #	77
89) 1,2,4-Trichlorobenzene	15.268	180	60484	15.329	ug/l	99
90) Hexachlorobutadiene	15.373	225	28358	15.509	ug/l	98
91) Naphthalene	15.509	128	185748	15.277	ug/l	99
92) 1,2,3-Trichlorobenzene	15.705	180	59083	15.699	ug/l	95

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

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