

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091421\
 Data File : VN068468.D
 Acq On : 14 Sep 2021 13:07
 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

Reviewed By : John Carlone 09/15/2021
 Supervised By : Mahesh Dadoda 09/15/2021

Quant Time: Sep 15 05:36:11 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N091321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Sep 14 04:23:31 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	92849	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	494114	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	456396	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	172177	31.400	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.667%			
60) 4-Bromofluorobenzene	12.733	95	197484	30.358	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.200%			
63) Toluene-d8	10.443	98	601502	30.295	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.073	85	95959	22.690	ug/l	99
3) Chloromethane	2.303	50	87135	21.299	ug/l	99
4) Vinyl Chloride	2.443	62	138593	21.375	ug/l	97
5) Bromomethane	2.864	94	135986	21.115	ug/l	98
6) Chloroethane	3.019	64	102411	22.130	ug/l	98
7) Trichlorofluoromethane	3.376	101	174896	21.883	ug/l	98
8) Diethyl Ether	3.829	74	54608	21.663	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.213	101	102042	22.415	ug/l	99
10) 1,1-Dichloroethene	4.189	96	90179	21.313	ug/l	98
11) Methyl Iodide	4.427	142	137292	20.898	ug/l	98
12) Methyl Acetate	4.854	43	96502	21.930	ug/l	99
13) Acrolein	4.044	56	39181	110.697	ug/l	99
14) Acrylonitrile	5.556	53	203799	106.859	ug/l	98
15) Acetone	4.288	58	57339	110.322	ug/l	96
16) Carbon Disulfide	4.535	76	224286	20.540	ug/l	98
17) Allyl chloride	4.843	41	115337	21.831	ug/l	95
18) Methylene Chloride	5.103	84	108193	21.361	ug/l	95
19) trans-1,2-Dichloroethene	5.599	96	100643	21.229	ug/l	95
20) Diisopropyl ether	6.495	45	259933	22.180	ug/l	98
21) 1,1-Dichloroethane	6.388	63	167395	21.492	ug/l	98
22) cis-1,2-Dichloroethene	7.327	96	120809	21.194	ug/l	98
23) tert-Butyl Alcohol	5.363	59	76494	99.251	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	313956	21.791	ug/l	99
25) Chloroform	7.820	83	203972	21.882	ug/l	99
26) Cyclohexane	8.096	56	139462	21.179	ug/l #	97
29) 1,1-Dichloropropene	8.222	75	139152	21.012	ug/l	98
30) 2-Butanone	7.337	43	260683	103.132	ug/l #	98
31) 2,2-Dichloropropane	7.329	77	159945	20.986	ug/l	98
32) 1,1,1-Trichloroethane	8.016	97	189137	21.031	ug/l	99
33) Carbon Tetrachloride	8.209	117	175123	20.832	ug/l	98
34) Benzene	8.464	78	423799	20.985	ug/l	97
35) Methacrylonitrile	7.638	41	51346	21.063	ug/l	96
36) 1,2-Dichloroethane	8.533	62	148796	21.883	ug/l	100
37) Trichloroethene	9.217	130	134606	20.800	ug/l	95
38) Methylcyclohexane	9.461	83	180702	21.228	ug/l	99
39) 1,2-Dichloropropane	9.491	63	101082	21.266	ug/l	99
40) Dibromomethane	9.577	93	84192	21.559	ug/l	99
41) Bromodichloromethane	9.765	83	158899	21.054	ug/l	97
42) Vinyl Acetate	6.436	43	1001069	107.491	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	104148	19.535	ug/l #	81
44) Isopropyl Acetate	8.560	43	191947	21.034	ug/l	100
45) 1,4-Dioxane	9.569	88	37531	406.729	ug/l	96
46) Methyl methacrylate	9.563	41	75584	20.477	ug/l	99
47) n-amyl Acetate	12.393	43	130073	20.299	ug/l	99
48) t-1,3-Dichloropropene	10.722	75	158573	20.752	ug/l	100
49) cis-1,3-Dichloropropene	10.191	75	169934	20.692	ug/l	97
50) 1,1,2-Trichloroethane	10.899	97	119196	21.121	ug/l	96
51) Ethyl methacrylate	10.765	69	150884	20.824	ug/l	99
52) 1,3-Dichloropropane	11.046	76	176689	21.053	ug/l	100
53) Dibromochloromethane	11.240	129	142043	20.469	ug/l	99
54) 1,2-Dibromoethane	11.350	107	127169	21.011	ug/l	98
55) 2-Chloroethyl vinyl ether	10.043	63	97926	79.836	ug/l	99
56) Bromoform	12.460	173	107882	19.356	ug/l #	100
58) 4-Methyl-2-Pentanone	10.333	43	570567	106.200	ug/l	99
59) 2-Hexanone	11.087	43	388603	104.365	ug/l	99
61) Tetrachloroethene	10.979	164	142198	21.669	ug/l	98
62) Toluene	10.507	91	510362	21.247	ug/l	99
64) Chlorobenzene	11.773	112	329085	20.772	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	136081	21.047	ug/l	100
66) Ethyl Benzene	11.848	91	540754	20.714	ug/l	99
67) m/p-Xylenes	11.956	106	463281	43.052	ug/l	99
68) o-Xylene	12.283	106	225992	21.271	ug/l	98
69) Styrene	12.296	104	349678	20.756	ug/l	97
70) Isopropylbenzene	12.583	105	577593	21.411	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.830	83	159867	21.772	ug/l	100
72) 1,2,3-Trichloropropane	12.884	75	128226m	20.977	ug/l	
73) Bromobenzene	12.865	156	156249	20.404	ug/l	98
74) n-propylbenzene	12.924	91	621809	21.374	ug/l	99
75) 2-Chlorotoluene	13.010	91	378433	21.614	ug/l	99
76) 1,3,5-Trimethylbenzene	13.063	105	490327	21.771	ug/l	99
77) t-1,4-Dichloro-2-butene	12.629	75	38617	19.145	ug/l	98
78) 4-Chlorotoluene	13.109	91	367068	21.846	ug/l	99
79) tert-butylbenzene	13.326	119	446098	21.559	ug/l	99
80) 1,2,4-Trimethylbenzene	13.372	105	469897m	21.565	ug/l	
81) sec-Butylbenzene	13.503	105	588973	21.534	ug/l	100
82) p-Isopropyltoluene	13.618	119	497455	21.205	ug/l	99
83) 1,3-Dichlorobenzene	13.618	146	278870	20.951	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	265055	20.787	ug/l	98
85) n-Butylbenzene	13.946	91	340073	20.380	ug/l	99
86) Hexachloroethane	14.211	117	89033	20.661	ug/l	99
87) 1,2-Dichlorobenzene	13.991	146	267886	20.943	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.605	75	25421	20.474	ug/l	98
89) 1,2,4-Trichlorobenzene	15.268	180	115251	18.648	ug/l	98
90) Hexachlorobutadiene	15.373	225	79041	20.222	ug/l	99
91) Naphthalene	15.509	128	232251	17.421	ug/l	99
92) 1,2,3-Trichlorobenzene	15.702	180	108721	18.680	ug/l	99

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

