

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102221\
 Data File : VN069144.D
 Acq On : 22 Oct 2021 19:49
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/25/2021
 Supervised By : Mahesh Dadoda 10/25/2021

Quant Time: Oct 23 07:56:52 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102221W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 22 13:15:19 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	53429	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	311670	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	282727	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	126854	30.483	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.600%			
60) 4-Bromofluorobenzene	12.734	95	141738	29.237	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.467%			
63) Toluene-d8	10.443	98	392030	30.690	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.075	85	75485	21.367	ug/l	97
3) Chloromethane	2.303	50	78579	21.395	ug/l	98
4) Vinyl Chloride	2.446	62	90985	20.782	ug/l	97
5) Bromomethane	2.861	94	59795	20.824	ug/l	100
6) Chloroethane	3.025	64	58214	20.513	ug/l	98
7) Trichlorofluoromethane	3.379	101	119358	21.054	ug/l	96
8) Diethyl Ether	3.827	74	43117	21.481	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.221	101	63812	20.718	ug/l	71
10) 1,1-Dichloroethene	4.189	96	62787	20.894	ug/l	93
11) Methyl Iodide	4.428	142	78466	18.571	ug/l	97
12) Methyl Acetate	4.859	43	120615	21.075	ug/l	99
13) Acrolein	4.047	56	31080	90.142	ug/l	99
14) Acrylonitrile	5.557	53	171310	105.496	ug/l	98
15) Acetone	4.288	58	44688	88.034	ug/l	99
16) Carbon Disulfide	4.537	76	159251	19.723	ug/l	100
17) Allyl chloride	4.846	41	104399	20.175	ug/l	92
18) Methylene Chloride	5.103	84	75685	21.196	ug/l	97
19) trans-1,2-Dichloroethene	5.605	96	66743	20.454	ug/l	96
20) Diisopropyl ether	6.498	45	224789	20.336	ug/l	97
21) 1,1-Dichloroethane	6.391	63	127529	20.670	ug/l	99
22) cis-1,2-Dichloroethene	7.329	96	79893	20.427	ug/l	99
23) tert-Butyl Alcohol	5.366	59	68657	103.048	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	236457m	20.746	ug/l	
25) Chloroform	7.820	83	135870	20.609	ug/l	99
26) Cyclohexane	8.099	56	115703	20.360	ug/l #	99
29) 1,1-Dichloropropene	8.225	75	97988	19.977	ug/l	98
30) 2-Butanone	7.337	43	233301	99.060	ug/l	99
31) 2,2-Dichloropropane	7.329	77	106874	18.188	ug/l	100
32) 1,1,1-Trichloroethane	8.019	97	123220	20.190	ug/l	98
33) Carbon Tetrachloride	8.209	117	103696	20.004	ug/l	98
34) Benzene	8.464	78	301109	20.559	ug/l	99
35) Methacrylonitrile	7.635	41	48837	20.807	ug/l	98
36) 1,2-Dichloroethane	8.534	62	107472	20.332	ug/l	99
37) Trichloroethene	9.220	130	75515	20.277	ug/l	90
38) Methylcyclohexane	9.462	83	125102	20.035	ug/l	98
39) 1,2-Dichloropropane	9.494	63	76444	20.468	ug/l	99
40) Dibromomethane	9.580	93	53558	20.511	ug/l	95
41) Bromodichloromethane	9.765	83	104160	19.963	ug/l	97
42) Vinyl Acetate	6.436	43	844860	100.534	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.413	43	97195	21.156	ug/l #	84
44) Isopropyl Acetate	8.563	43	169062	19.874	ug/l	96
45) 1,4-Dioxane	9.569	88	27774	407.952	ug/l	97
46) Methyl methacrylate	9.561	41	72851	18.945	ug/l	93
47) n-amyl Acetate	12.390	43	138446	19.170	ug/l	100
48) t-1,3-Dichloropropene	10.722	75	113930	18.878	ug/l	100
49) cis-1,3-Dichloropropene	10.191	75	120897	19.237	ug/l	97
50) 1,1,2-Trichloroethane	10.902	97	76856	20.509	ug/l	97
51) Ethyl methacrylate	10.762	69	124340	20.128	ug/l	92
52) 1,3-Dichloropropane	11.047	76	128845	20.435	ug/l	99
53) Dibromochloromethane	11.240	129	78319	19.577	ug/l	100
54) 1,2-Dibromoethane	11.347	107	79382	20.263	ug/l	97
55) 2-Chloroethyl vinyl ether	10.044	63	192208	98.000	ug/l	99
56) Bromoform	12.460	173	54583	18.928	ug/l #	100
58) 4-Methyl-2-Pentanone	10.333	43	511881	107.318	ug/l	98
59) 2-Hexanone	11.087	43	370337	102.815	ug/l	98
61) Tetrachloroethene	10.980	164	68031	22.140	ug/l	99
62) Toluene	10.508	91	343237	20.843	ug/l	98
64) Chlorobenzene	11.773	112	206040	20.630	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	77050	20.736	ug/l	99
66) Ethyl Benzene	11.849	91	382669	20.669	ug/l	99
67) m/p-Xylenes	11.956	106	287143	41.241	ug/l	98
68) o-Xylene	12.283	106	143893	20.640	ug/l	96
69) Styrene	12.296	104	232500	20.125	ug/l	98
70) Isopropylbenzene	12.581	105	374505	20.490	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.830	83	111493	20.812	ug/l	99
72) 1,2,3-Trichloropropane	12.881	75	95064m	20.652	ug/l	
73) Bromobenzene	12.862	156	84673	20.438	ug/l	96
74) n-propylbenzene	12.924	91	426660	20.327	ug/l	100
75) 2-Chlorotoluene	13.010	91	262820	20.449	ug/l	97
76) 1,3,5-Trimethylbenzene	13.063	105	315347	20.701	ug/l	100
77) t-1,4-Dichloro-2-butene	12.629	75	32056	17.807	ug/l	97
78) 4-Chlorotoluene	13.109	91	249882	19.838	ug/l	96
79) tert-butylbenzene	13.326	119	275581	20.603	ug/l	100
80) 1,2,4-Trimethylbenzene	13.372	105	305377m	20.421	ug/l	
81) sec-Butylbenzene	13.503	105	380747	20.334	ug/l	99
82) p-Isopropyltoluene	13.619	119	302319	19.795	ug/l	100
83) 1,3-Dichlorobenzene	13.619	146	145759	19.985	ug/l	98
84) 1,4-Dichlorobenzene	13.696	146	141882	19.977	ug/l	97
85) n-Butylbenzene	13.946	91	241042	18.871	ug/l	98
86) Hexachloroethane	14.214	117	55377	19.365	ug/l	92
87) 1,2-Dichlorobenzene	13.991	146	140938	20.224	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.606	75	20190	20.234	ug/l	98
89) 1,2,4-Trichlorobenzene	15.265	180	67990	19.350	ug/l	98
90) Hexachlorobutadiene	15.373	225	37073	20.181	ug/l	96
91) Naphthalene	15.507	128	205027	20.173	ug/l	98
92) 1,2,3-Trichlorobenzene	15.703	180	67556	20.118	ug/l	99

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

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