

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102221\
 Data File : VN069129.D
 Acq On : 22 Oct 2021 12:02
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

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

Quant Time: Oct 22 12:50:37 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102221W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 22 12:48:50 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.662	128	68375	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.971	114	395399	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.746	117	371180	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	160117	30.685	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.267%			
60) 4-Bromofluorobenzene	12.733	95	191563	32.175	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 107.267%			
63) Toluene-d8	10.443	98	503593	30.019	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.067%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.075	85	240224	72.003	ug/l	99
3) Chloromethane	2.303	50	256690	63.647	ug/l	97
4) Vinyl Chloride	2.445	62	314445	43.973	ug/l	100
5) Bromomethane	2.845	94	186523	28.287	ug/l	99
6) Chloroethane	3.014	64	190857	33.558	ug/l	98
7) Trichlorofluoromethane	3.376	101	382603	58.905	ug/l	98
8) Diethyl Ether	3.829	74	133480	58.846	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.215	101	207654	55.908	ug/l #	69
10) 1,1-Dichloroethene	4.186	96	199022	57.361	ug/l	96
11) Methyl Iodide	4.427	142	289522	67.043	ug/l	95
12) Methyl Acetate	4.854	43	373913	61.100	ug/l	98
13) Acrolein	4.046	56	106457	377.258	ug/l	97
14) Acrylonitrile	5.554	53	548628	285.580	ug/l	99
15) Acetone	4.285	58	175548	314.965	ug/l	98
16) Carbon Disulfide	4.537	76	541629	58.206	ug/l	98
17) Allyl chloride	4.846	41	348624	62.241	ug/l	93
18) Methylene Chloride	5.100	84	236524	54.923	ug/l	98
19) trans-1,2-Dichloroethene	5.602	96	219993	54.673	ug/l	93
20) Diisopropyl ether	6.498	45	761960	59.535	ug/l	95
21) 1,1-Dichloroethane	6.391	63	416391	56.369	ug/l	99
22) cis-1,2-Dichloroethene	7.329	96	264082	53.712	ug/l	99
23) tert-Butyl Alcohol	5.369	59	226121	311.952	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	773313	57.041	ug/l	99
25) Chloroform	7.820	83	450453	52.691	ug/l	98
26) Cyclohexane	8.099	56	385215	59.014	ug/l #	98
29) 1,1-Dichloropropene	8.225	75	329875	51.875	ug/l	98
30) 2-Butanone	7.335	43	812298	279.479	ug/l	99
31) 2,2-Dichloropropane	7.329	77	395748	53.719	ug/l	99
32) 1,1,1-Trichloroethane	8.018	97	413749	51.268	ug/l	99
33) Carbon Tetrachloride	8.209	117	356156	49.953	ug/l	97
34) Benzene	8.464	78	982586	52.089	ug/l	98
35) Methacrylonitrile	7.638	41	158088	55.570	ug/l	97
36) 1,2-Dichloroethane	8.531	62	359327	51.563	ug/l	100
37) Trichloroethene	9.217	130	248722	50.437	ug/l	92
38) Methylcyclohexane	9.461	83	416570	52.653	ug/l	98
39) 1,2-Dichloropropane	9.494	63	252009	53.577	ug/l	97
40) Dibromomethane	9.579	93	176932	48.807	ug/l	96
41) Bromodichloromethane	9.764	83	356169	49.985	ug/l	96
42) Vinyl Acetate	6.436	43	2845869	268.118	ug/l	99

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43) Ethyl Acetate	7.412	43	317667	54.365	ug/l	99
44) Isopropyl Acetate	8.560	43	576265	55.034	ug/l	99
45) 1,4-Dioxane	9.569	88	91414	1093.189	ug/l	96
46) Methyl methacrylate	9.561	41	265366	57.482	ug/l	92
47) n-amyl Acetate	12.387	43	495501	56.128	ug/l	99
48) t-1,3-Dichloropropene	10.719	75	409688	52.194	ug/l	99
49) cis-1,3-Dichloropropene	10.191	75	428693	53.405	ug/l	95
50) 1,1,2-Trichloroethane	10.899	97	252387	50.005	ug/l	98
51) Ethyl methacrylate	10.762	69	420530	53.946	ug/l	93
52) 1,3-Dichloropropane	11.046	76	426523	51.681	ug/l	99
53) Dibromochloromethane	11.240	129	274741	48.283	ug/l	100
54) 1,2-Dibromoethane	11.347	107	268117	50.792	ug/l	98
55) 2-Chloroethyl vinyl ether	10.043	63	638072	287.372	ug/l	99
56) Bromoform	12.460	173	197274	48.054	ug/l #	100
58) 4-Methyl-2-Pentanone	10.330	43	1657428	260.370	ug/l	97
59) 2-Hexanone	11.087	43	1256990	269.539	ug/l	97
61) Tetrachloroethene	10.979	164	214348	49.411	ug/l	96
62) Toluene	10.507	91	1132540	50.581	ug/l	98
64) Chlorobenzene	11.773	112	685810	50.002	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	259364	49.232	ug/l	99
66) Ethyl Benzene	11.846	91	1285486	50.842	ug/l	99
67) m/p-Xylenes	11.956	106	963634	98.939	ug/l	97
68) o-Xylene	12.283	106	479470	49.921	ug/l	96
69) Styrene	12.296	104	803648	50.692	ug/l	98
70) Isopropylbenzene	12.580	105	1275805	50.218	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.830	83	374368	51.833	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	319947m	53.932	ug/l	
73) Bromobenzene	12.862	156	289514	50.198	ug/l	94
74) n-propylbenzene	12.921	91	1464925	50.422	ug/l	100
75) 2-Chlorotoluene	13.010	91	886062	51.600	ug/l	96
76) 1,3,5-Trimethylbenzene	13.061	105	1062970	50.675	ug/l	99
77) t-1,4-Dichloro-2-butene	12.626	75	129294	56.239	ug/l	95
78) 4-Chlorotoluene	13.106	91	873861	51.736	ug/l	96
79) tert-butylbenzene	13.326	119	923007	50.047	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	1045547m	50.315	ug/l	
81) sec-Butylbenzene	13.503	105	1303765	49.660	ug/l	100
82) p-Isopropyltoluene	13.618	119	1062458	49.012	ug/l	100
83) 1,3-Dichlorobenzene	13.618	146	506657	47.929	ug/l	98
84) 1,4-Dichlorobenzene	13.696	146	493914	49.142	ug/l	97
85) n-Butylbenzene	13.946	91	887342	49.929	ug/l	98
86) Hexachloroethane	14.211	117	201768	49.607	ug/l	92
87) 1,2-Dichlorobenzene	13.991	146	483316	49.200	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.603	75	69238	54.040	ug/l	97
89) 1,2,4-Trichlorobenzene	15.265	180	240108	50.274	ug/l	97
90) Hexachlorobutadiene	15.372	225	126590	52.240	ug/l	99
91) Naphthalene	15.507	128	684248	51.861	ug/l	99
92) 1,2,3-Trichlorobenzene	15.702	180	226669	49.972	ug/l	99

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

