

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091421\
 Data File : VN068473.D
 Acq On : 14 Sep 2021 16:48
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

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

Quant Time: Sep 15 05:38:43 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	7.662	128	97626	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	517374	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	480198	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	178462	30.953	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.167%			
60) 4-Bromofluorobenzene	12.734	95	208097	30.404	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.333%			
63) Toluene-d8	10.443	98	635995	30.445	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.467%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.073	85	92994	20.913	ug/l	99
3) Chloromethane	2.303	50	86023	19.999	ug/l	96
4) Vinyl Chloride	2.443	62	135102	19.817	ug/l	99
5) Bromomethane	2.859	94	134952	19.929	ug/l	100
6) Chloroethane	3.017	64	100975	20.752	ug/l	100
7) Trichlorofluoromethane	3.376	101	173087	20.597	ug/l	99
8) Diethyl Ether	3.827	74	54283	20.480	ug/l	95
9) 1,1,2-Trichlorotrifluo...	4.216	101	99041	20.691	ug/l	100
10) 1,1-Dichloroethene	4.186	96	88636	19.924	ug/l	98
11) Methyl Iodide	4.425	142	127886	18.514	ug/l	99
12) Methyl Acetate	4.857	43	92161	19.919	ug/l	100
13) Acrolein	4.044	56	36113	97.037	ug/l	98
14) Acrylonitrile	5.554	53	194922	97.204	ug/l	100
15) Acetone	4.288	58	54384	99.516	ug/l	95
16) Carbon Disulfide	4.538	76	215234	18.746	ug/l	98
17) Allyl chloride	4.843	41	114404	20.595	ug/l	99
18) Methylene Chloride	5.098	84	105301	19.773	ug/l	97
19) trans-1,2-Dichloroethene	5.600	96	98634	19.787	ug/l	99
20) Diisopropyl ether	6.495	45	254283	20.637	ug/l	95
21) 1,1-Dichloroethane	6.388	63	167894	20.502	ug/l	98
22) cis-1,2-Dichloroethene	7.327	96	119663	19.965	ug/l	98
23) tert-Butyl Alcohol	5.361	59	72571	89.553	ug/l #	100
24) Methyl tert-Butyl Ether	5.616	73	304378	20.093	ug/l	100
25) Chloroform	7.820	83	200935	20.502	ug/l	99
26) Cyclohexane	8.096	56	138146	19.953	ug/l #	99
29) 1,1-Dichloropropene	8.223	75	136993	19.756	ug/l	99
30) 2-Butanone	7.335	43	251198	94.911	ug/l #	98
31) 2,2-Dichloropropane	7.324	77	157045	19.679	ug/l	97
32) 1,1,1-Trichloroethane	8.016	97	187203	19.880	ug/l	100
33) Carbon Tetrachloride	8.209	117	172978	19.652	ug/l	98
34) Benzene	8.461	78	417476	19.742	ug/l	99
35) Methacrylonitrile	7.641	41	51567	20.202	ug/l	94
36) 1,2-Dichloroethane	8.531	62	144494	20.295	ug/l	100
37) Trichloroethene	9.218	130	133401	19.687	ug/l	94
38) Methylcyclohexane	9.462	83	177016	19.860	ug/l	99
39) 1,2-Dichloropropane	9.491	63	99959	20.085	ug/l	97
40) Dibromomethane	9.580	93	81155	19.847	ug/l	99
41) Bromodichloromethane	9.765	83	154827	19.592	ug/l	96
42) Vinyl Acetate	6.434	43	955701	98.006	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.413	43	111648m	20.000	ug/l	
44) Isopropyl Acetate	8.560	43	183834	19.239	ug/l	99
45) 1,4-Dioxane	9.569	88	35007	362.320	ug/l	98
46) Methyl methacrylate	9.561	41	80006	20.700	ug/l	99
47) n-amyl Acetate	12.390	43	121076	18.046	ug/l	98
48) t-1,3-Dichloropropene	10.719	75	153822	19.225	ug/l	98
49) cis-1,3-Dichloropropene	10.191	75	164857	19.171	ug/l	99
50) 1,1,2-Trichloroethane	10.899	97	113807	19.259	ug/l	99
51) Ethyl methacrylate	10.762	69	142492	18.782	ug/l	97
52) 1,3-Dichloropropane	11.047	76	174464	19.853	ug/l	98
53) Dibromochloromethane	11.240	129	140208	19.296	ug/l	100
54) 1,2-Dibromoethane	11.347	107	121235	19.130	ug/l	99
55) 2-Chloroethyl vinyl ether	10.044	63	85190	66.330	ug/l	99
56) Bromoform	12.460	173	105915	18.148	ug/l #	100
58) 4-Methyl-2-Pentanone	10.331	43	543002	96.060	ug/l	99
59) 2-Hexanone	11.087	43	380224	97.053	ug/l	100
61) Tetrachloroethene	10.980	164	137849	19.965	ug/l	98
62) Toluene	10.508	91	504981	19.981	ug/l	99
64) Chlorobenzene	11.773	112	326959	19.615	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	133730	19.658	ug/l	99
66) Ethyl Benzene	11.849	91	541954	19.731	ug/l	99
67) m/p-Xylenes	11.956	106	455772	40.255	ug/l	99
68) o-Xylene	12.283	106	225026	20.130	ug/l	98
69) Styrene	12.296	104	360814	20.355	ug/l	100
70) Isopropylbenzene	12.581	105	572030	20.154	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.830	83	159019	20.583	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	133941m	20.825	ug/l	
73) Bromobenzene	12.862	156	154184	19.136	ug/l	98
74) n-propylbenzene	12.924	91	610042	19.930	ug/l	100
75) 2-Chlorotoluene	13.010	91	373890	20.296	ug/l	100
76) 1,3,5-Trimethylbenzene	13.061	105	491326	20.734	ug/l	99
77) t-1,4-Dichloro-2-butene	12.626	75	37800	17.811	ug/l	95
78) 4-Chlorotoluene	13.109	91	358056	20.254	ug/l	99
79) tert-butylbenzene	13.326	119	437967	20.117	ug/l	99
80) 1,2,4-Trimethylbenzene	13.369	105	478766m	20.883	ug/l	
81) sec-Butylbenzene	13.503	105	575153	19.987	ug/l	99
82) p-Isopropyltoluene	13.619	119	478980	19.406	ug/l	99
83) 1,3-Dichlorobenzene	13.619	146	279558	19.961	ug/l	100
84) 1,4-Dichlorobenzene	13.696	146	280657	20.919	ug/l	98
85) n-Butylbenzene	13.946	91	323419	18.422	ug/l	99
86) Hexachloroethane	14.211	117	87795	19.364	ug/l	100
87) 1,2-Dichlorobenzene	13.991	146	282741	21.009	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.606	75	29827	22.831	ug/l	98
89) 1,2,4-Trichlorobenzene	15.265	180	104105	16.010	ug/l	99
90) Hexachlorobutadiene	15.373	225	77732	18.901	ug/l	97
91) Naphthalene	15.509	128	297691	21.222	ug/l	99
92) 1,2,3-Trichlorobenzene	15.703	180	96509	15.760	ug/l	97

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

