

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN112321\
 Data File : VN069623.D
 Acq On : 23 Nov 2021 12:57
 Operator : JC/MD
 Sample : VN1123WBS01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1123WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/24/2021
 Supervised By : Mahesh Dadoda 11/26/2021

Quant Time: Nov 24 02:25:57 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N111021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 10 14:36:17 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.657	128	193596	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	1095394	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.744	117	1012244	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	525928	31.324	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.400%			
60) 4-Bromofluorobenzene	12.731	95	482498	29.786	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.300%			
63) Toluene-d8	10.440	98	1426786	30.527	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.767%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.075	85	329330	23.021	ug/l	100
3) Chloromethane	2.306	50	342745	22.979	ug/l	95
4) Vinyl Chloride	2.448	62	331133	21.894	ug/l	99
5) Bromomethane	2.864	94	193516	19.979	ug/l	99
6) Chloroethane	3.025	64	199503	20.908	ug/l	98
7) Trichlorofluoromethane	3.379	101	453291	20.448	ug/l	99
8) Diethyl Ether	3.824	74	156774	22.404	ug/l	78
9) 1,1,2-Trichlorotrifluo...	4.210	101	247844	24.162	ug/l #	72
10) 1,1-Dichloroethene	4.181	96	221675	22.913	ug/l	87
11) Methyl Iodide	4.422	142	315021	23.370	ug/l	96
12) Methyl Acetate	4.854	43	604110	21.682	ug/l #	89
13) Acrolein	4.039	56	86572	113.010	ug/l	99
14) Acrylonitrile	5.554	53	784380	103.188	ug/l	99
15) Acetone	4.288	58	262695	103.713	ug/l	73
16) Carbon Disulfide	4.532	76	522179	21.593	ug/l	98
17) Allyl chloride	4.840	41	455473	22.151	ug/l	93
18) Methylene Chloride	5.093	84	276994	22.474	ug/l #	86
19) trans-1,2-Dichloroethene	5.599	96	239436	22.553	ug/l	88
20) Diisopropyl ether	6.495	45	1012800	22.986	ug/l #	96
21) 1,1-Dichloroethane	6.391	63	507190	22.690	ug/l	99
22) cis-1,2-Dichloroethene	7.324	96	288888	21.940	ug/l	90
23) tert-Butyl Alcohol	5.380	59	249138m	94.174	ug/l	
24) Methyl tert-Butyl Ether	5.616	73	856854	22.099	ug/l	94
25) Chloroform	7.817	83	522698	22.616	ug/l	97
26) Cyclohexane	8.096	56	489508	23.065	ug/l #	84
29) 1,1-Dichloropropene	8.220	75	386838	23.135	ug/l	94
30) 2-Butanone	7.335	43	1247306	103.056	ug/l	91
31) 2,2-Dichloropropane	7.327	77	391033	22.120	ug/l	96
32) 1,1,1-Trichloroethane	8.016	97	429567	22.006	ug/l	93
33) Carbon Tetrachloride	8.206	117	359641	22.307	ug/l	98
34) Benzene	8.458	78	1151921m	22.653	ug/l	
35) Methacrylonitrile	7.638	41	231371	20.843	ug/l	91
36) 1,2-Dichloroethane	8.528	62	455431	23.232	ug/l	98
37) Trichloroethene	9.215	130	276269	22.489	ug/l	94
38) Methylcyclohexane	9.459	83	466558	22.553	ug/l	90
39) 1,2-Dichloropropane	9.488	63	306406	22.752	ug/l	97
40) Dibromomethane	9.577	93	198061	21.959	ug/l	96
41) Bromodichloromethane	9.762	83	376173	22.220	ug/l	97
42) Vinyl Acetate	6.434	43	3772795	110.303	ug/l #	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.412	43	458051	20.421	ug/l	99
44) Isopropyl Acetate	8.560	43	736195	21.053	ug/l	96
45) 1,4-Dioxane	9.569	88	109660	386.316	ug/l	90
46) Methyl methacrylate	9.561	41	343925	21.355	ug/l	84
47) n-amyl Acetate	12.390	43	465373	17.331	ug/l	99
48) t-1,3-Dichloropropene	10.719	75	377916	20.801	ug/l	99
49) cis-1,3-Dichloropropene	10.188	75	428672	21.683	ug/l	93
50) 1,1,2-Trichloroethane	10.896	97	280983	21.938	ug/l	95
51) Ethyl methacrylate	10.760	69	436847	20.343	ug/l	91
52) 1,3-Dichloropropane	11.044	76	499421	22.574	ug/l	99
53) Dibromochloromethane	11.237	129	260239	21.263	ug/l	99
54) 1,2-Dibromoethane	11.344	107	281006	21.185	ug/l	97
55) 2-Chloroethyl vinyl ether	10.041	63	472719	96.779	ug/l	97
56) Bromoform	12.457	173	173427	19.760	ug/l #	99
58) 4-Methyl-2-Pentanone	10.330	43	2381019	107.159	ug/l #	94
59) 2-Hexanone	11.084	43	1659142	98.164	ug/l	95
61) Tetrachloroethene	10.977	164	256406	23.600	ug/l	94
62) Toluene	10.505	91	1242794	22.343	ug/l	98
64) Chlorobenzene	11.771	112	742264	22.242	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.840	131	263575	22.434	ug/l	99
66) Ethyl Benzene	11.843	91	1368597	22.229	ug/l	100
67) m/p-Xylenes	11.953	106	1007229	44.046	ug/l	94
68) o-Xylene	12.280	106	498192	21.758	ug/l	94
69) Styrene	12.294	104	794683	21.408	ug/l	97
70) Isopropylbenzene	12.578	105	1306352	21.816	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.827	83	418512	21.180	ug/l	98
72) 1,2,3-Trichloropropane	12.881	75	361557m	18.783	ug/l	
73) Bromobenzene	12.860	156	300692	21.784	ug/l	94
74) n-propylbenzene	12.919	91	1487149	21.625	ug/l	99
75) 2-Chlorotoluene	13.007	91	915809	21.876	ug/l	96
76) 1,3,5-Trimethylbenzene	13.058	105	1083931	22.054	ug/l	99
77) t-1,4-Dichloro-2-butene	12.626	75	88328	16.999	ug/l	78
78) 4-Chlorotoluene	13.106	91	858953	21.425	ug/l	95
79) tert-butylbenzene	13.324	119	934838	21.623	ug/l	99
80) 1,2,4-Trimethylbenzene	13.366	105	1043207m	21.759	ug/l	
81) sec-Butylbenzene	13.501	105	1298777	21.470	ug/l	100
82) p-Isopropyltoluene	13.616	119	1031559	21.372	ug/l	100
83) 1,3-Dichlorobenzene	13.616	146	506894	21.478	ug/l	100
84) 1,4-Dichlorobenzene	13.694	146	480593	20.991	ug/l	100
85) n-Butylbenzene	13.943	91	790126	19.614	ug/l	98
86) Hexachloroethane	14.211	117	164530	20.597	ug/l	92
87) 1,2-Dichlorobenzene	13.989	146	485023	21.294	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.603	75	62793	18.154	ug/l	96
89) 1,2,4-Trichlorobenzene	15.263	180	190128	17.409	ug/l	99
90) Hexachlorobutadiene	15.370	225	137005	23.198	ug/l	98
91) Naphthalene	15.507	128	422206	13.420	ug/l	99
92) 1,2,3-Trichlorobenzene	15.700	180	181234	16.881	ug/l	98

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

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