

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121721\
 Data File : VN070159.D
 Acq On : 17 Dec 2021 12:57
 Operator : JC/MD
 Sample : VN1217WBS01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1217WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/18/2021
 Supervised By : Mahesh Dadoda 12/23/2021

Quant Time: Dec 18 05:29:37 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N121321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Dec 14 00:59:04 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	190224	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	1061618	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	961409	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.437	65	513600	30.467	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.567%			
60) 4-Bromofluorobenzene	12.731	95	468474	29.613	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.700%			
63) Toluene-d8	10.440	98	1367489	30.780	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 102.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.073	85	268538	19.453	ug/l	97
3) Chloromethane	2.303	50	319356	20.197	ug/l	96
4) Vinyl Chloride	2.443	62	288729	19.406	ug/l	100
5) Bromomethane	2.856	94	158072	19.436	ug/l	96
6) Chloroethane	3.019	64	171571	20.084	ug/l	99
7) Trichlorofluoromethane	3.373	101	350665	18.053	ug/l	96
8) Diethyl Ether	3.821	74	151979	19.719	ug/l	75
9) 1,1,2-Trichlorotrifluo...	4.202	101	212384	18.615	ug/l #	70
10) 1,1-Dichloroethene	4.178	96	203337	18.737	ug/l	88
11) Methyl Iodide	4.414	142	277433	18.270	ug/l	94
12) Methyl Acetate	4.859	43	590430	22.088	ug/l #	88
13) Acrolein	4.041	56	215864	99.763	ug/l	100
14) Acrylonitrile	5.559	53	838002	108.574	ug/l	99
15) Acetone	4.291	58	263638	94.134	ug/l	79
16) Carbon Disulfide	4.524	76	504745	15.436	ug/l	99
17) Allyl chloride	4.838	41	465264	19.064	ug/l	85
18) Methylene Chloride	5.093	84	255504	19.532	ug/l #	83
19) trans-1,2-Dichloroethene	5.597	96	214532	18.612	ug/l #	83
20) Diisopropyl ether	6.498	45	937320	20.053	ug/l #	96
21) 1,1-Dichloroethane	6.388	63	473097	19.200	ug/l	98
22) cis-1,2-Dichloroethene	7.327	96	262591	19.248	ug/l	90
23) tert-Butyl Alcohol	5.388	59	294836	120.842	ug/l #	100
24) Methyl tert-Butyl Ether	5.621	73	801785	20.806	ug/l	97
25) Chloroform	7.817	83	465194	19.002	ug/l	100
26) Cyclohexane	8.094	56	439795	19.282	ug/l #	83
29) 1,1-Dichloropropene	8.220	75	337177	18.446	ug/l	96
30) 2-Butanone	7.340	43	1310887	104.234	ug/l #	91
31) 2,2-Dichloropropane	7.327	77	349804	18.300	ug/l	97
32) 1,1,1-Trichloroethane	8.016	97	389021	18.376	ug/l	96
33) Carbon Tetrachloride	8.206	117	311846	16.571	ug/l	96
34) Benzene	8.461	78	1045756	19.351	ug/l #	95
35) Methacrylonitrile	7.638	41	237979	20.456	ug/l	89
36) 1,2-Dichloroethane	8.531	62	408035	19.127	ug/l	98
37) Trichloroethene	9.217	130	236915	18.432	ug/l	92
38) Methylcyclohexane	9.459	83	398177	18.325	ug/l	88
39) 1,2-Dichloropropane	9.491	63	275153	19.098	ug/l	99
40) Dibromomethane	9.580	93	176148	18.535	ug/l	95
41) Bromodichloromethane	9.762	83	337149	16.777	ug/l	95
42) Vinyl Acetate	6.436	43	3722602	100.764	ug/l #	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.415	43	514593	23.557	ug/l	94
44) Isopropyl Acetate	8.563	43	734926	20.901	ug/l	95
45) 1,4-Dioxane	9.569	88	125850	505.781	ug/l #	85
46) Methyl methacrylate	9.561	41	339373	20.379	ug/l	79
47) n-amyl Acetate	12.390	43	473341	19.304	ug/l	99
48) t-1,3-Dichloropropene	10.719	75	347327	17.184	ug/l	98
49) cis-1,3-Dichloropropene	10.191	75	384958	17.550	ug/l	95
50) 1,1,2-Trichloroethane	10.899	97	247911	19.191	ug/l	97
51) Ethyl methacrylate	10.762	69	415895	20.144	ug/l	88
52) 1,3-Dichloropropane	11.047	76	445896	19.494	ug/l	99
53) Dibromochloromethane	11.240	129	226397	15.602	ug/l	99
54) 1,2-Dibromoethane	11.347	107	250514	19.033	ug/l	96
55) 2-Chloroethyl vinyl ether	10.041	63	489301	120.890	ug/l	96
56) Bromoform	12.457	173	159298	14.418	ug/l #	100
58) 4-Methyl-2-Pentanone	10.333	43	2498324	113.218	ug/l #	94
59) 2-Hexanone	11.087	43	1807270	110.784	ug/l	95
61) Tetrachloroethene	10.977	164	218512	19.460	ug/l	95
62) Toluene	10.505	91	1096533	19.394	ug/l	98
64) Chlorobenzene	11.771	112	636066	18.955	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.843	131	224001	17.723	ug/l	100
66) Ethyl Benzene	11.846	91	1192527	18.972	ug/l	99
67) m/p-Xylenes	11.953	106	876814	38.180	ug/l	94
68) o-Xylene	12.283	106	434746	19.133	ug/l	94
69) Styrene	12.296	104	681021	18.388	ug/l	97
70) Isopropylbenzene	12.578	105	1139898	19.120	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.827	83	394718	20.187	ug/l	97
72) 1,2,3-Trichloropropane	12.881	75	366457m	20.140	ug/l	
73) Bromobenzene	12.862	156	255995	18.502	ug/l	89
74) n-propylbenzene	12.921	91	1263942	18.291	ug/l	98
75) 2-Chlorotoluene	13.007	91	800074	18.921	ug/l	95
76) 1,3,5-Trimethylbenzene	13.061	105	923873	18.861	ug/l	99
77) t-1,4-Dichloro-2-butene	12.626	75	92289	16.130	ug/l	82
78) 4-Chlorotoluene	13.106	91	733285	18.083	ug/l	94
79) tert-butylbenzene	13.324	119	799861	18.816	ug/l	98
80) 1,2,4-Trimethylbenzene	13.369	105	878510m	18.547	ug/l	
81) sec-Butylbenzene	13.503	105	1087249	18.329	ug/l	99
82) p-Isopropyltoluene	13.616	119	850850	18.004	ug/l	100
83) 1,3-Dichlorobenzene	13.616	146	423190	18.085	ug/l	99
84) 1,4-Dichlorobenzene	13.696	146	405855	18.031	ug/l	99
85) n-Butylbenzene	13.943	91	649177	16.442	ug/l	98
86) Hexachloroethane	14.211	117	137518	14.586	ug/l	90
87) 1,2-Dichlorobenzene	13.989	146	417991	18.594	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.603	75	70035	18.724	ug/l	94
89) 1,2,4-Trichlorobenzene	15.265	180	181529	17.358	ug/l	97
90) Hexachlorobutadiene	15.373	225	116566	18.728	ug/l	99
91) Naphthalene	15.507	128	504098	21.069	ug/l	99
92) 1,2,3-Trichlorobenzene	15.700	180	182387	18.458	ug/l	99

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

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