

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021523\
 Data File : VN076684.D
 Acq On : 15 Feb 2023 14:04
 Operator : JC\MD
 Sample : VN0215WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0215WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/16/2023
 Supervised By : Mahesh Dadoda 02/18/2023

Quant Time: Feb 16 04:30:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N021523W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Feb 16 01:08:46 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.825	128	34142	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	251751	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.872	117	286128	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.589	65	100746	32.263	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	107.533%		
60) 4-Bromofluorobenzene	12.854	95	148794	29.400	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.000%		
63) Toluene-d8	10.572	98	289028	28.839	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.133%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	77141	21.351	ug/l	87
3) Chloromethane	2.378	50	96192	21.682	ug/l	99
4) Vinyl Chloride	2.525	62	103521	21.862	ug/l	98
5) Bromomethane	2.954	94	72233	22.094	ug/l	93
6) Chloroethane	3.131	64	69897	22.762	ug/l	99
7) Trichlorofluoromethane	3.507	101	126939	21.504	ug/l	97
8) Diethyl Ether	3.978	74	53214	22.721	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.384	101	76119	21.218	ug/l	98
10) 1,1-Dichloroethene	4.354	96	72069	21.390	ug/l	96
11) Methyl Iodide	4.601	142	90801	21.596	ug/l	90
12) Methyl Acetate	5.043	43	152289	22.047	ug/l	96
13) Acrolein	4.190	56	81471	99.306	ug/l	96
14) Acrylonitrile	5.731	53	228614	107.842	ug/l	99
15) Acetone	4.443	58	71815	104.632	ug/l	100
16) Carbon Disulfide	4.725	76	205048	21.696	ug/l	100
17) Allyl chloride	5.043	41	127218	21.094	ug/l	97
18) Methylene Chloride	5.284	84	89141	20.960	ug/l	95
19) trans-1,2-Dichloroethene	5.795	96	78763	20.843	ug/l #	89
20) Diisopropyl ether	6.690	45	313496	21.982	ug/l	97
21) 1,1-Dichloroethane	6.578	63	161516	21.651	ug/l	99
22) cis-1,2-Dichloroethene	7.501	96	94521	21.802	ug/l #	89
23) tert-Butyl Alcohol	5.537	59	74214	121.134	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	262750m	22.538	ug/l	
25) Chloroform	7.972	83	161338	22.055	ug/l	99
26) Cyclohexane	8.266	56	151123	22.666	ug/l #	97
29) 1,1-Dichloropropene	8.378	75	119750	20.853	ug/l	97
30) 2-Butanone	7.489	43	347612	103.775	ug/l	99
31) 2,2-Dichloropropane	7.501	77	122457	20.404	ug/l #	61
32) 1,1,1-Trichloroethane	8.172	97	138134	20.720	ug/l	97
33) Carbon Tetrachloride	8.366	117	118637	20.538	ug/l	90
34) Benzene	8.613	78	378201	20.629	ug/l	97
35) Methacrylonitrile	7.789	41	74730	20.453	ug/l	95
36) 1,2-Dichloroethane	8.678	62	132916	21.660	ug/l	100
37) Trichloroethene	9.354	130	85103	19.960	ug/l	95
38) Methylcyclohexane	9.607	83	149856	20.737	ug/l	97
39) 1,2-Dichloropropane	9.625	63	98599	20.694	ug/l	90
40) Dibromomethane	9.713	93	60937	20.054	ug/l	94
41) Bromodichloromethane	9.889	83	123955	20.337	ug/l	98
42) Vinyl Acetate	6.613	43	1021908	105.269	ug/l	100

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43) Ethyl Acetate	7.566	43	141544	22.179	ug/l	98
44) Isopropyl Acetate	8.695	43	222859	21.214	ug/l	99
45) 1,4-Dioxane	9.695	88	38642	434.613	ug/l	98
46) Methyl methacrylate	9.683	41	105727	21.924	ug/l	97
47) n-amyl Acetate	12.495	43	193941	20.906	ug/l	99
48) t-1,3-Dichloropropene	10.836	75	129993	21.028	ug/l	96
49) cis-1,3-Dichloropropene	10.319	75	142641	20.272	ug/l	94
50) 1,1,2-Trichloroethane	11.019	97	92346	20.906	ug/l	97
51) Ethyl methacrylate	10.878	69	138386	21.578	ug/l	96
52) 1,3-Dichloropropane	11.166	76	159969	21.065	ug/l	99
53) Dibromochloromethane	11.366	129	91106	20.079	ug/l	99
54) 1,2-Dibromoethane	11.472	107	89130	20.727	ug/l	99
55) 2-Chloroethyl vinyl ether	10.160	63	264586	93.062	ug/l	99
56) Bromoform	12.583	173	62839	20.109	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	714311	104.965	ug/l	100
59) 2-Hexanone	11.201	43	526234	103.961	ug/l	99
61) Tetrachloroethene	11.107	164	70255	19.444	ug/l	95
62) Toluene	10.636	91	401300	20.069	ug/l	100
64) Chlorobenzene	11.895	112	245445	20.603	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.960	131	85238	19.518	ug/l	95
66) Ethyl Benzene	11.966	91	434024	20.417	ug/l	94
67) m/p-Xylenes	12.072	106	350192	42.126	ug/l	100
68) o-Xylene	12.401	106	170713	20.839	ug/l	97
69) Styrene	12.413	104	274046	20.837	ug/l	98
70) Isopropylbenzene	12.701	105	438925	21.002	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	140018	20.478	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	124480m	20.667	ug/l	
73) Bromobenzene	12.983	156	101221	20.873	ug/l	99
74) n-propylbenzene	13.042	91	513751	20.640	ug/l	99
75) 2-Chlorotoluene	13.130	91	307155	20.737	ug/l	100
76) 1,3,5-Trimethylbenzene	13.177	105	370612	21.263	ug/l	97
77) t-1,4-Dichloro-2-butene	12.736	75	41020	21.197	ug/l	98
78) 4-Chlorotoluene	13.224	91	294000	20.705	ug/l	100
79) tert-butylbenzene	13.442	119	319177	20.682	ug/l	99
80) 1,2,4-Trimethylbenzene	13.483	105	375259	21.682	ug/l	98
81) sec-Butylbenzene	13.618	105	466013	21.028	ug/l	99
82) p-Isopropyltoluene	13.736	119	373669	20.797	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	193283	20.859	ug/l	99
84) 1,4-Dichlorobenzene	13.813	146	182844	20.231	ug/l	96
85) n-Butylbenzene	14.060	91	317371	20.841	ug/l	100
86) Hexachloroethane	14.336	117	69957	20.113	ug/l	96
87) 1,2-Dichlorobenzene	14.113	146	189252	20.312	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	25624	20.217	ug/l	95
89) 1,2,4-Trichlorobenzene	15.395	180	95803	20.156	ug/l	98
90) Hexachlorobutadiene	15.507	225	46144	20.152	ug/l	93
91) Naphthalene	15.642	128	324567	21.238	ug/l	97
92) 1,2,3-Trichlorobenzene	15.842	180	97693	20.250	ug/l	97

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

