

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030923\
 Data File : VN076893.D
 Acq On : 09 Mar 2023 10:59
 Operator : JC\MD
 Sample : VN0309WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0309WBSD01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Mar 10 01:29:13 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 09 04:16:54 2023
 Response via : Initial Calibration

03/10/2023
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	7.825	128	51174	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	350182	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	395722	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	144190	30.655	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.167%	
60) 4-Bromofluorobenzene	12.854	95	228550	30.516	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 101.733%	
63) Toluene-d8	10.572	98	403108	28.962	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 96.533%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.143	85	121208	18.509	ug/l	96
3) Chloromethane	2.378	50	99250	16.582	ug/l	93
4) Vinyl Chloride	2.531	62	90012	16.491	ug/l	97
5) Bromomethane	2.978	94	61600	17.648	ug/l	93
6) Chloroethane	3.143	64	52100	16.244	ug/l	90
7) Trichlorofluoromethane	3.519	101	184205	18.066	ug/l	94
8) Diethyl Ether	3.972	74	78716	20.585	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.396	101	108419	18.769	ug/l	47
10) 1,1-Dichloroethene	4.354	96	101785	18.154	ug/l	96
11) Methyl Iodide	4.607	142	126945	18.791	ug/l	92
12) Methyl Acetate	5.037	43	179016	19.413	ug/l	100
13) Acrolein	4.190	56	129293	94.839	ug/l	99
14) Acrylonitrile	5.737	53	295819	97.380	ug/l	99
15) Acetone	4.437	58	88679	107.264	ug/l	87
16) Carbon Disulfide	4.731	76	284932	18.328	ug/l	98
17) Allyl chloride	5.043	41	156153	18.569	ug/l	97
18) Methylene Chloride	5.290	84	122727	18.714	ug/l #	85
19) trans-1,2-Dichloroethene	5.801	96	114285	19.345	ug/l	98
20) Diisopropyl ether	6.684	45	368755	19.438	ug/l #	93
21) 1,1-Dichloroethane	6.584	63	209668	18.572	ug/l	98
22) cis-1,2-Dichloroethene	7.495	96	130741	19.311	ug/l	98
23) tert-Butyl Alcohol	5.531	59	96478	109.354	ug/l #	100
24) Methyl tert-Butyl Ether	5.813	73	377889	20.673	ug/l	92
25) Chloroform	7.978	83	218871	18.872	ug/l	99
26) Cyclohexane	8.266	56	179009	17.367	ug/l #	90
29) 1,1-Dichloropropene	8.378	75	161373	19.565	ug/l	98
30) 2-Butanone	7.489	43	386080	102.596	ug/l	94
31) 2,2-Dichloropropane	7.501	77	164830	20.170	ug/l #	64
32) 1,1,1-Trichloroethane	8.178	97	184931	19.222	ug/l	97
33) Carbon Tetrachloride	8.366	117	165498	19.455	ug/l	96
34) Benzene	8.613	78	493783	19.527	ug/l	99
35) Methacrylonitrile	7.784	41	86576	20.446	ug/l	93
36) 1,2-Dichloroethane	8.678	62	175618	20.720	ug/l	100
37) Trichloroethene	9.360	130	123447	19.807	ug/l	99
38) Methylcyclohexane	9.607	83	198297	19.315	ug/l	98
39) 1,2-Dichloropropane	9.625	63	130459	20.080	ug/l	95
40) Dibromomethane	9.713	93	86335	20.858	ug/l	95
41) Bromodichloromethane	9.889	83	172600	20.347	ug/l	98
42) Vinyl Acetate	6.613	43	1216578	103.713	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	154675	20.370	ug/l	97
44) Isopropyl Acetate	8.695	43	254177	20.650	ug/l	91
45) 1,4-Dioxane	9.701	88	45298	437.451	ug/l	92
46) Methyl methacrylate	9.683	41	123271	20.565	ug/l	87
47) n-amyl Acetate	12.495	43	213008m	21.264	ug/l	
48) t-1,3-Dichloropropene	10.836	75	185030	21.778	ug/l	92
49) cis-1,3-Dichloropropene	10.313	75	203711	21.110	ug/l #	89
50) 1,1,2-Trichloroethane	11.019	97	124313	20.501	ug/l	97
51) Ethyl methacrylate	10.877	69	192593	21.544	ug/l	84
52) 1,3-Dichloropropane	11.166	76	216117	20.635	ug/l	100
53) Dibromochloromethane	11.360	129	129657	20.959	ug/l	97
54) 1,2-Dibromoethane	11.472	107	121524	20.768	ug/l	98
55) 2-Chloroethyl vinyl ether	10.166	63	332524	106.093	ug/l	99
56) Bromoform	12.577	173	86844	20.984	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	795557	99.518	ug/l #	88
59) 2-Hexanone	11.201	43	580435	102.210	ug/l #	89
61) Tetrachloroethene	11.107	164	118635	18.991	ug/l	94
62) Toluene	10.636	91	526858	19.322	ug/l	100
64) Chlorobenzene	11.895	112	313332	19.521	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.960	131	119042	19.746	ug/l	97
66) Ethyl Benzene	11.966	91	583092	19.696	ug/l	96
67) m/p-Xylenes	12.072	106	441324	39.355	ug/l	91
68) o-Xylene	12.401	106	220165	20.109	ug/l	97
69) Styrene	12.413	104	365399	20.578	ug/l	98
70) Isopropylbenzene	12.701	105	568647	19.962	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.936	83	167135	19.459	ug/l	100
72) 1,2,3-Trichloropropane	12.995	75	155246m	19.704	ug/l	
73) Bromobenzene	12.983	156	127914	19.898	ug/l	92
74) n-propylbenzene	13.036	91	675222	20.081	ug/l	100
75) 2-Chlorotoluene	13.130	91	416533	20.031	ug/l	95
76) 1,3,5-Trimethylbenzene	13.177	105	499766	20.269	ug/l	93
77) t-1,4-Dichloro-2-butene	12.742	75	50917	21.170	ug/l	94
78) 4-Chlorotoluene	13.224	91	410899	20.499	ug/l	94
79) tert-butylbenzene	13.442	119	406536	19.717	ug/l	96
80) 1,2,4-Trimethylbenzene	13.483	105	489490	20.201	ug/l	95
81) sec-Butylbenzene	13.618	105	604967	20.507	ug/l	99
82) p-Isopropyltoluene	13.730	119	492972	20.676	ug/l	97
83) 1,3-Dichlorobenzene	13.736	146	246955	20.763	ug/l	98
84) 1,4-Dichlorobenzene	13.818	146	245443	21.244	ug/l	97
85) n-Butylbenzene	14.060	91	439268	21.735	ug/l	98
86) Hexachloroethane	14.336	117	81265	19.089	ug/l	88
87) 1,2-Dichlorobenzene	14.107	146	239515	20.193	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.718	75	35114	20.990	ug/l	98
89) 1,2,4-Trichlorobenzene	15.395	180	145283	22.962	ug/l	97
90) Hexachlorobutadiene	15.501	225	71238	21.356	ug/l	97
91) Naphthalene	15.642	128	441526	22.001	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	141728	22.344	ug/l	98

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

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