

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030923\
 Data File : VN076892.D
 Acq On : 09 Mar 2023 10:26
 Operator : JC\MD
 Sample : VN0309WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 10 01:28:31 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

Manual Integrations APPROVED

Reviewed By :John
 Carlone

03/10/2023
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	7.825	128	52064	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	369000	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.865	117	408887	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	146831	30.683	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 102.267%	
60) 4-Bromofluorobenzene	12.848	95	239335	30.927	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 103.100%	
63) Toluene-d8	10.571	98	425004	29.552	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 98.500%	

Target Compounds	Qvalue					
2) Dichlorodifluoromethane	2.143	85	130992	19.661	ug/l	96
3) Chloromethane	2.378	50	106669	17.517	ug/l	97
4) Vinyl Chloride	2.531	62	101344	18.250	ug/l	94
5) Bromomethane	2.984	94	67708	19.067	ug/l	93
6) Chloroethane	3.143	64	58009	17.778	ug/l	93
7) Trichlorofluoromethane	3.519	101	199598	19.241	ug/l	97
8) Diethyl Ether	3.978	74	79543	20.446	ug/l	87
9) 1,1,2-Trichlorotrifluo...	4.390	101	117280	19.956	ug/l	95
10) 1,1-Dichloroethene	4.360	96	109588	19.212	ug/l	92
11) Methyl Iodide	4.607	142	133167	19.375	ug/l	91
12) Methyl Acetate	5.042	43	191492	20.411	ug/l	99
13) Acrolein	4.195	56	131901	95.098	ug/l	98
14) Acrylonitrile	5.736	53	313075	101.298	ug/l	98
15) Acetone	4.437	58	96598	114.845	ug/l	86
16) Carbon Disulfide	4.725	76	308163	19.483	ug/l	100
17) Allyl chloride	5.042	41	168032	19.640	ug/l	91
18) Methylene Chloride	5.289	84	129470	19.405	ug/l	# 86
19) trans-1,2-Dichloroethene	5.801	96	119524	19.886	ug/l	93
20) Diisopropyl ether	6.683	45	394044	20.416	ug/l	94
21) 1,1-Dichloroethane	6.578	63	225688	19.649	ug/l	98
22) cis-1,2-Dichloroethene	7.489	96	135142	19.620	ug/l	99
23) tert-Butyl Alcohol	5.531	59	97355	108.462	ug/l	# 100
24) Methyl tert-Butyl Ether	5.813	73	393313	21.149	ug/l	92
25) Chloroform	7.972	83	227309	19.265	ug/l	97
26) Cyclohexane	8.260	56	204421	19.493	ug/l	# 95
29) 1,1-Dichloropropene	8.377	75	173702	19.985	ug/l	97
30) 2-Butanone	7.489	43	410224	103.453	ug/l	95
31) 2,2-Dichloropropane	7.501	77	176476	20.494	ug/l	# 62
32) 1,1,1-Trichloroethane	8.177	97	201396	19.866	ug/l	95
33) Carbon Tetrachloride	8.372	117	177024	19.748	ug/l	95
34) Benzene	8.613	78	521468	19.570	ug/l	98
35) Methacrylonitrile	7.789	41	88163	19.759	ug/l	92
36) 1,2-Dichloroethane	8.677	62	184528	20.661	ug/l	100
37) Trichloroethene	9.360	130	129517	19.722	ug/l	95
38) Methylcyclohexane	9.607	83	212038	19.600	ug/l	99
39) 1,2-Dichloropropane	9.624	63	131383	19.191	ug/l	99
40) Dibromomethane	9.713	93	89300	20.474	ug/l	96
41) Bromodichloromethane	9.889	83	180856	20.233	ug/l	# 99
42) Vinyl Acetate	6.613	43	1261125	102.028	ug/l	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	162640m	20.327	ug/l	
44) Isopropyl Acetate	8.695	43	260063m	20.051	ug/l	
45) 1,4-Dioxane	9.695	88	44029	403.512	ug/l	94
46) Methyl methacrylate	9.683	41	127906	20.250	ug/l	86
47) n-amyl Acetate	12.495	43	215341m	20.401	ug/l	
48) t-1,3-Dichloropropene	10.842	75	190023	21.225	ug/l	93
49) cis-1,3-Dichloropropene	10.319	75	212027	20.851	ug/l #	86
50) 1,1,2-Trichloroethane	11.018	97	123448	19.320	ug/l	99
51) Ethyl methacrylate	10.877	69	193669	20.560	ug/l	87
52) 1,3-Dichloropropane	11.166	76	218236	19.774	ug/l	98
53) Dibromochloromethane	11.360	129	131931	20.239	ug/l	99
54) 1,2-Dibromoethane	11.471	107	124057	20.120	ug/l	99
55) 2-Chloroethyl vinyl ether	10.166	63	345751	104.687	ug/l	99
56) Bromoform	12.583	173	90723	20.803	ug/l	97
58) 4-Methyl-2-Pentanone	10.448	43	824376	99.803	ug/l #	89
59) 2-Hexanone	11.201	43	598365	101.975	ug/l #	88
61) Tetrachloroethene	11.107	164	127367	19.732	ug/l	93
62) Toluene	10.630	91	556813	19.763	ug/l	100
64) Chlorobenzene	11.895	112	329724	19.881	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.965	131	122443	19.656	ug/l	97
66) Ethyl Benzene	11.965	91	623468	20.382	ug/l	99
67) m/p-Xylenes	12.071	106	467897	40.381	ug/l	91
68) o-Xylene	12.401	106	227561	20.116	ug/l	95
69) Styrene	12.413	104	378918	20.653	ug/l	97
70) Isopropylbenzene	12.701	105	596957	20.281	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.936	83	172878	19.480	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	155843m	19.142	ug/l	
73) Bromobenzene	12.983	156	136077	20.487	ug/l	95
74) n-propylbenzene	13.036	91	715766	20.602	ug/l	99
75) 2-Chlorotoluene	13.130	91	438056	20.388	ug/l	96
76) 1,3,5-Trimethylbenzene	13.177	105	531116	20.847	ug/l	92
77) t-1,4-Dichloro-2-butene	12.736	75	55214	22.217	ug/l	92
78) 4-Chlorotoluene	13.224	91	429436	20.734	ug/l	95
79) tert-butylbenzene	13.442	119	429000	20.136	ug/l	93
80) 1,2,4-Trimethylbenzene	13.483	105	522841	20.883	ug/l	95
81) sec-Butylbenzene	13.618	105	634744	20.824	ug/l	99
82) p-Isopropyltoluene	13.730	119	525043	21.312	ug/l	97
83) 1,3-Dichlorobenzene	13.736	146	253779	20.650	ug/l	95
84) 1,4-Dichlorobenzene	13.818	146	257590	21.577	ug/l	96
85) n-Butylbenzene	14.059	91	464682	22.253	ug/l	98
86) Hexachloroethane	14.336	117	88857	20.201	ug/l	91
87) 1,2-Dichlorobenzene	14.107	146	249780	20.381	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.724	75	37932	21.944	ug/l	99
89) 1,2,4-Trichlorobenzene	15.395	180	150451	23.013	ug/l	98
90) Hexachlorobutadiene	15.501	225	75148	21.803	ug/l	98
91) Naphthalene	15.642	128	459163	22.144	ug/l	99
92) 1,2,3-Trichlorobenzene	15.842	180	148443	22.649	ug/l	98

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

