

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051424\
 Data File : VN082120.D
 Acq On : 14 May 2024 17:15
 Operator : JC\MD
 Sample : VN0514WBSD02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0514WBSD02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/15/2024
 Supervised By : Mahesh Dadoda 05/15/2024

Quant Time: May 15 02:49:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 14 11:29:16 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	60360	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	294409	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.870	117	276541	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	157746	31.214	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.033%			
60) 4-Bromofluorobenzene	12.847	95	128807	27.988	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.300%			
63) Toluene-d8	10.571	98	387699	29.521	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.400%			
Target Compounds				Qvalue		
2) Dichlorodifluoromethane	2.124	85	47829	13.959	ug/l	99
3) Chloromethane	2.365	50	72504	18.247	ug/l	97
4) Vinyl Chloride	2.518	62	71650	19.088	ug/l	95
5) Bromomethane	2.965	94	52221	26.661	ug/l	93
6) Chloroethane	3.124	64	61241	28.811	ug/l	91
7) Trichlorofluoromethane	3.500	101	89670	16.325	ug/l	100
8) Diethyl Ether	3.965	74	43699	16.435	ug/l	68
9) 1,1,2-Trichlorotrifluo...	4.371	101	56462	14.978	ug/l	92
10) 1,1-Dichloroethene	4.341	96	51921	14.077	ug/l	# 78
11) Methyl Iodide	4.589	142	60005	17.810	ug/l	93
12) Methyl Acetate	5.030	43	117431	24.904	ug/l	# 79
13) Acrolein	4.177	56	101391	103.253	ug/l	98
14) Acrylonitrile	5.724	53	217908	103.506	ug/l	98
15) Acetone	4.430	58	47141	99.288	ug/l	# 61
16) Carbon Disulfide	4.712	76	122894	12.041	ug/l	# 96
17) Allyl chloride	5.030	41	112791	17.084	ug/l	80
18) Methylene Chloride	5.277	84	77032	18.378	ug/l	# 73
19) trans-1,2-Dichloroethene	5.783	96	59651	15.537	ug/l	99
20) Diisopropyl ether	6.671	45	305714	21.363	ug/l	90
21) 1,1-Dichloroethane	6.571	63	147509	19.468	ug/l	96
22) cis-1,2-Dichloroethene	7.482	96	83548	17.818	ug/l	90
23) tert-Butyl Alcohol	5.524	59	84939m	97.929	ug/l	
24) Methyl tert-Butyl Ether	5.800	73	257818	19.410	ug/l	# 79
25) Chloroform	7.965	83	147836	20.280	ug/l	96
26) Cyclohexane	8.259	56	93550	14.363	ug/l	# 81
29) 1,1-Dichloropropene	8.377	75	85778	19.570	ug/l	94
30) 2-Butanone	7.482	43	308632	136.603	ug/l	# 87
31) 2,2-Dichloropropane	7.488	77	111054	24.724	ug/l	96
32) 1,1,1-Trichloroethane	8.171	97	114616	22.737	ug/l	# 93
33) Carbon Tetrachloride	8.365	117	88824	21.712	ug/l	98
34) Benzene	8.606	78	307363	21.981	ug/l	# 94
35) Methacrylonitrile	7.777	41	72182	25.253	ug/l	91
36) 1,2-Dichloroethane	8.677	62	125100	26.651	ug/l	95
37) Trichloroethene	9.353	130	61512	17.961	ug/l	87
38) Methylcyclohexane	9.600	83	85015	16.056	ug/l	90
39) 1,2-Dichloropropane	9.624	63	85510	23.833	ug/l	98
40) Dibromomethane	9.712	93	56472	24.501	ug/l	94
41) Bromodichloromethane	9.888	83	119871	24.332	ug/l	# 99
42) Vinyl Acetate	6.600	43	1205462	125.354	ug/l	# 91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	115025	23.271	ug/l	99
44) Isopropyl Acetate	8.688	43	232375	26.574	ug/l #	84
45) 1,4-Dioxane	9.694	88	31796	453.352	ug/l #	86
46) Methyl methacrylate	9.682	41	105263	26.346	ug/l	72
47) n-amyl Acetate	12.494	43	190963m	24.217	ug/l	
48) t-1,3-Dichloropropene	10.835	75	119309	22.332	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	129661	22.955	ug/l #	78
50) 1,1,2-Trichloroethane	11.018	97	78199	25.007	ug/l	93
51) Ethyl methacrylate	10.876	69	130483	22.109	ug/l #	66
52) 1,3-Dichloropropane	11.165	76	137901	24.003	ug/l	100
53) Dibromochloromethane	11.359	129	85514	25.134	ug/l	96
54) 1,2-Dibromoethane	11.470	107	76135	24.413	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	332155	112.547	ug/l	95
56) Bromoform	12.582	173	54620	26.378	ug/l #	90
58) 4-Methyl-2-Pentanone	10.447	43	690354	128.573	ug/l #	83
59) 2-Hexanone	11.200	43	507660	127.513	ug/l #	83
61) Tetrachloroethene	11.112	164	58522	19.072	ug/l #	80
62) Toluene	10.635	91	314603	20.219	ug/l	99
64) Chlorobenzene	11.894	112	198621	20.870	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	72880	23.397	ug/l	98
66) Ethyl Benzene	11.965	91	332317	19.484	ug/l	98
67) m/p-Xylenes	12.070	106	244662	38.690	ug/l	100
68) o-Xylene	12.400	106	123020	19.663	ug/l	99
69) Styrene	12.412	104	209854	19.981	ug/l	98
70) Isopropylbenzene	12.694	105	305532	19.228	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	110724	24.215	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	98905m	26.434	ug/l	
73) Bromobenzene	12.982	156	78448	23.064	ug/l	93
74) n-propylbenzene	13.035	91	366820	19.553	ug/l	97
75) 2-Chlorotoluene	13.123	91	231241	19.939	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	253526	19.712	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	38357	20.149	ug/l	84
78) 4-Chlorotoluene	13.223	91	224964	19.800	ug/l	98
79) tert-butylbenzene	13.441	119	216176	19.521	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	250860	19.418	ug/l	97
81) sec-Butylbenzene	13.617	105	301243	19.407	ug/l	100
82) p-Isopropyltoluene	13.729	119	244179	19.893	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	136230	22.243	ug/l	97
84) 1,4-Dichlorobenzene	13.811	146	134973	21.926	ug/l	97
85) n-Butylbenzene	14.059	91	218892	19.523	ug/l	94
86) Hexachloroethane	14.335	117	44795	18.303	ug/l	90
87) 1,2-Dichlorobenzene	14.106	146	139648	22.893	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.717	75	21220	20.681	ug/l	93
89) 1,2,4-Trichlorobenzene	15.841	180	72061	21.454	ug/l	97
90) Hexachlorobutadiene	15.505	225	26142	21.015	ug/l	99
91) Naphthalene	15.641	128	247300	19.368	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	72061	21.454	ug/l	97

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

