

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN022324\
 Data File : VN081152.D
 Acq On : 23 Feb 2024 10:12
 Operator : JC\MD
 Sample : VN0223WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0223WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/26/2024
 Supervised By : Mahesh Dadoda 02/26/2024

Quant Time: Feb 24 00:09:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 10 01:55:02 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	76780	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	445214	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	415239	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	176511	30.595	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.967%			
60) 4-Bromofluorobenzene	12.853	95	193578	30.494	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.633%			
63) Toluene-d8	10.571	98	550377	29.535	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.467%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	106985	20.493	ug/l	96
3) Chloromethane	2.365	50	101886	19.420	ug/l	98
4) Vinyl Chloride	2.518	62	106552	17.034	ug/l	99
5) Bromomethane	2.965	94	73378	17.465	ug/l	97
6) Chloroethane	3.124	64	71774	17.602	ug/l	91
7) Trichlorofluoromethane	3.506	101	162202	19.692	ug/l	92
8) Diethyl Ether	3.959	74	57230	19.768	ug/l	90
9) 1,1,2-Trichlorotrifluo...	4.377	101	90961	20.347	ug/l	95
10) 1,1-Dichloroethene	4.342	96	53518	12.215	ug/l	98
11) Methyl Iodide	4.595	142	89997m	19.179	ug/l	
12) Methyl Acetate	5.024	43	96558m	24.319	ug/l	
13) Acrolein	4.177	56	83657	96.617	ug/l	98
14) Acrylonitrile	5.718	53	233039	118.197	ug/l	97
15) Acetone	4.418	58	47058m	103.752	ug/l	
16) Carbon Disulfide	4.718	76	221700	18.437	ug/l	97
17) Allyl chloride	5.024	41	120913	21.973	ug/l	91
18) Methylene Chloride	5.277	84	97152	19.403	ug/l	90
19) trans-1,2-Dichloroethene	5.795	96	91946	18.485	ug/l	90
20) Diisopropyl ether	6.671	45	288620	21.822	ug/l	98
21) 1,1-Dichloroethane	6.571	63	170934	20.167	ug/l	97
22) cis-1,2-Dichloroethene	7.489	96	110890	19.187	ug/l	99
23) tert-Butyl Alcohol	5.512	59	90866	126.512	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	286251	19.707	ug/l #	92
25) Chloroform	7.971	83	180797	19.227	ug/l	99
26) Cyclohexane	8.259	56	145816	22.847	ug/l	94
29) 1,1-Dichloropropene	8.371	75	131783	19.872	ug/l	99
30) 2-Butanone	7.483	43	278888	114.619	ug/l	97
31) 2,2-Dichloropropane	7.489	77	154735	20.493	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	161846	19.400	ug/l	99
33) Carbon Tetrachloride	8.365	117	141382	20.114	ug/l	94
34) Benzene	8.606	78	405355	20.002	ug/l	97
35) Methacrylonitrile	7.777	41	73114	25.565	ug/l	91
36) 1,2-Dichloroethane	8.671	62	142066	20.888	ug/l	96
37) Trichloroethene	9.353	130	104309	19.359	ug/l	99
38) Methylcyclohexane	9.600	83	161285	24.370	ug/l	98
39) 1,2-Dichloropropane	9.624	63	104224	21.682	ug/l	97
40) Dibromomethane	9.712	93	73045	19.973	ug/l	93
41) Bromodichloromethane	9.894	83	143809	20.092	ug/l #	98
42) Vinyl Acetate	6.606	43	1229565	118.140	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	120640	23.805	ug/l	94
44) Isopropyl Acetate	8.688	43	224254	24.627	ug/l	89
45) 1,4-Dioxane	9.700	88	45781	530.109	ug/l	92
46) Methyl methacrylate	9.683	41	101707	24.410	ug/l	90
47) n-amyl Acetate	12.494	43	190278	23.960	ug/l	92
48) t-1,3-Dichloropropene	10.841	75	152768	20.365	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	165433	20.353	ug/l #	90
50) 1,1,2-Trichloroethane	11.018	97	97846	19.336	ug/l	96
51) Ethyl methacrylate	10.877	69	149139	21.087	ug/l	80
52) 1,3-Dichloropropane	11.165	76	171435	20.516	ug/l	100
53) Dibromochloromethane	11.359	129	103553	18.775	ug/l	99
54) 1,2-Dibromoethane	11.471	107	99233	18.955	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	263429	72.683	ug/l	99
56) Bromoform	12.582	173	62619	17.827	ug/l #	97
58) 4-Methyl-2-Pentanone	10.447	43	650468	120.659	ug/l #	90
59) 2-Hexanone	11.200	43	475498	119.922	ug/l	90
61) Tetrachloroethene	11.106	164	90764	19.135	ug/l	98
62) Toluene	10.630	91	443783	19.510	ug/l	99
64) Chlorobenzene	11.894	112	270987	19.452	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	96896	18.751	ug/l	98
66) Ethyl Benzene	11.965	91	492651	20.599	ug/l	99
67) m/p-Xylenes	12.076	106	377041	40.144	ug/l	97
68) o-Xylene	12.400	106	179764	19.530	ug/l	100
69) Styrene	12.412	104	295541	19.504	ug/l	97
70) Isopropylbenzene	12.700	105	477715	21.297	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	132411	19.143	ug/l	98
72) 1,2,3-Trichloropropane	13.000	75	125455m	23.170	ug/l	
73) Bromobenzene	12.982	156	103701	18.590	ug/l	96
74) n-propylbenzene	13.035	91	568234	22.290	ug/l	99
75) 2-Chlorotoluene	13.129	91	333946	21.102	ug/l	96
76) 1,3,5-Trimethylbenzene	13.176	105	401394	21.870	ug/l	98
77) t-1,4-Dichloro-2-butene	12.741	75	43986	21.467	ug/l	94
78) 4-Chlorotoluene	13.223	91	326015	20.568	ug/l	96
79) tert-butylbenzene	13.441	119	337976	22.183	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	398014	21.765	ug/l	98
81) sec-Butylbenzene	13.618	105	489870	22.960	ug/l	99
82) p-Isopropyltoluene	13.735	119	404620	22.590	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	198020	19.737	ug/l	97
84) 1,4-Dichlorobenzene	13.818	146	196824	19.545	ug/l	99
85) n-Butylbenzene	14.059	91	358674	24.269	ug/l	99
86) Hexachloroethane	14.335	117	66919	23.686	ug/l	84
87) 1,2-Dichlorobenzene	14.106	146	191107	19.565	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	27283	21.853	ug/l	96
89) 1,2,4-Trichlorobenzene	15.841	180	110088	23.038	ug/l	97
90) Hexachlorobutadiene	15.506	225	41243	19.672	ug/l	99
91) Naphthalene	15.647	128	392402	23.127	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	110088	23.038	ug/l	97

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

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