

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021023\
 Data File : VN076603.D
 Acq On : 10 Feb 2023 12:09
 Operator : JC\MD
 Sample : VN0210WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0210WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/13/2023
 Supervised By : Mahesh Dadoda 02/13/2023

Quant Time: Feb 11 00:54:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020923W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Feb 10 05:40:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.828	128	29599	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.104	114	210342	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.868	117	237286	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.586	65	103144	29.566	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.567%	
60) 4-Bromofluorobenzene	12.851	95	144596	26.992	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	89.967%	
63) Toluene-d8	10.569	98	248828	28.559	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	95.200%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.140	85	82853	20.224	ug/l	99
3) Chloromethane	2.375	50	82450	16.738	ug/l	98
4) Vinyl Chloride	2.528	62	70681	16.433	ug/l	99
5) Bromomethane	2.963	94	40357	18.690	ug/l	87
6) Chloroethane	3.128	64	39128	17.339	ug/l	# 86
7) Trichlorofluoromethane	3.510	101	136101	18.635	ug/l	92
8) Diethyl Ether	3.975	74	46070	19.888	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.392	101	72307	20.567	ug/l	75
10) 1,1-Dichloroethene	4.357	96	63164	19.119	ug/l	84
11) Methyl Iodide	4.604	142	93393	19.457	ug/l	79
12) Methyl Acetate	5.034	43	129695	18.707	ug/l	97
13) Acrolein	4.192	56	91154	102.650	ug/l	97
14) Acrylonitrile	5.728	53	196647	96.813	ug/l	99
15) Acetone	4.440	58	56209m	95.842	ug/l	
16) Carbon Disulfide	4.722	76	178818	19.694	ug/l	97
17) Allyl chloride	5.039	41	133181m	20.910	ug/l	
18) Methylene Chloride	5.292	84	74913	19.162	ug/l	95
19) trans-1,2-Dichloroethene	5.798	96	66654	19.639	ug/l	86
20) Diisopropyl ether	6.686	45	264775	18.212	ug/l	90
21) 1,1-Dichloroethane	6.575	63	146218	18.443	ug/l	# 97
22) cis-1,2-Dichloroethene	7.492	96	83167	20.451	ug/l	93
23) tert-Butyl Alcohol	5.539	59	69307	101.684	ug/l	# 100
24) Methyl tert-Butyl Ether	5.810	73	241043	20.258	ug/l	93
25) Chloroform	7.975	83	144916	18.473	ug/l	97
26) Cyclohexane	8.263	56	127946	18.187	ug/l	# 95
29) 1,1-Dichloropropene	8.375	75	106282	19.521	ug/l	96
30) 2-Butanone	7.492	43	282712	96.198	ug/l	96
31) 2,2-Dichloropropane	7.498	77	115565	20.443	ug/l	# 73
32) 1,1,1-Trichloroethane	8.175	97	132758	19.653	ug/l	99
33) Carbon Tetrachloride	8.369	117	113415	19.462	ug/l	96
34) Benzene	8.610	78	309252	18.486	ug/l	# 91
35) Methacrylonitrile	7.786	41	68049	20.138	ug/l	90
36) 1,2-Dichloroethane	8.675	62	125656	19.587	ug/l	98
37) Trichloroethene	9.357	130	69310	20.235	ug/l	89
38) Methylcyclohexane	9.610	83	124222	20.613	ug/l	93
39) 1,2-Dichloropropane	9.627	63	80578	20.184	ug/l	98
40) Dibromomethane	9.710	93	52351	19.933	ug/l	96
41) Bromodichloromethane	9.892	83	116146	21.032	ug/l	# 98
42) Vinyl Acetate	6.616	43	919880m	96.230	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.569	43	118885m	19.839	ug/l	
44) Isopropyl Acetate	8.698	43	185623	18.831	ug/l	98
45) 1,4-Dioxane	9.698	88	33381	415.415	ug/l	90
46) Methyl methacrylate	9.686	41	94651	19.915	ug/l	82
47) n-amyl Acetate	12.498	43	163974	19.570	ug/l	93
48) t-1,3-Dichloropropene	10.839	75	115286	20.739	ug/l	99
49) cis-1,3-Dichloropropene	10.316	75	125291	20.389	ug/l	91
50) 1,1,2-Trichloroethane	11.021	97	71880	20.152	ug/l	95
51) Ethyl methacrylate	10.874	69	115331	20.363	ug/l	87
52) 1,3-Dichloropropane	11.169	76	130826	19.676	ug/l	98
53) Dibromochloromethane	11.363	129	77879	21.012	ug/l	96
54) 1,2-Dibromoethane	11.468	107	72029	19.956	ug/l	98
55) 2-Chloroethyl vinyl ether	10.163	63	268858	103.927	ug/l	98
56) Bromoform	12.580	173	49787	20.857	ug/l	100
58) 4-Methyl-2-Pentanone	10.445	43	586475	88.414	ug/l	96
59) 2-Hexanone	11.198	43	434487	90.088	ug/l	95
61) Tetrachloroethene	11.104	164	56438	18.607	ug/l	95
62) Toluene	10.633	91	316405	17.985	ug/l	97
64) Chlorobenzene	11.892	112	189707	18.615	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.963	131	71407	18.482	ug/l	99
66) Ethyl Benzene	11.968	91	358907	18.609	ug/l	100
67) m/p-Xylenes	12.074	106	265877	36.742	ug/l	90
68) o-Xylene	12.404	106	133498	18.726	ug/l	94
69) Styrene	12.415	104	214058	18.917	ug/l	94
70) Isopropylbenzene	12.698	105	354750	18.569	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.945	83	110404	16.575	ug/l	97
72) 1,2,3-Trichloropropane	12.998	75	109312m	17.969	ug/l	
73) Bromobenzene	12.980	156	76102	16.787	ug/l	97
74) n-propylbenzene	13.039	91	410640	16.759	ug/l	100
75) 2-Chlorotoluene	13.127	91	264175	17.139	ug/l	95
76) 1,3,5-Trimethylbenzene	13.174	105	302974	16.983	ug/l	98
77) t-1,4-Dichloro-2-butene	12.739	75	32353	17.632	ug/l	76
78) 4-Chlorotoluene	13.227	91	257921	16.642	ug/l	93
79) tert-butylbenzene	13.439	119	262024	17.304	ug/l	90
80) 1,2,4-Trimethylbenzene	13.486	105	303645	17.259	ug/l	96
81) sec-Butylbenzene	13.621	105	359007	16.932	ug/l	100
82) p-Isopropyltoluene	13.733	119	301502	17.697	ug/l	95
83) 1,3-Dichlorobenzene	13.733	146	144473	17.230	ug/l	97
84) 1,4-Dichlorobenzene	13.815	146	138057	16.503	ug/l	96
85) n-Butylbenzene	14.062	91	256955	16.241	ug/l	99
86) Hexachloroethane	14.333	117	54271	16.406	ug/l	96
87) 1,2-Dichlorobenzene	14.109	146	144809	15.733	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.721	75	24661	18.164	ug/l	82
89) 1,2,4-Trichlorobenzene	15.398	180	75146	19.576	ug/l	96
90) Hexachlorobutadiene	15.504	225	37665	20.310	ug/l	100
91) Naphthalene	15.645	128	253389	19.346	ug/l	99
92) 1,2,3-Trichlorobenzene	15.845	180	76883	20.067	ug/l	98

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

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