

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051223\
 Data File : VN077666.D
 Acq On : 12 May 2023 11:39
 Operator : JC\MD
 Sample : VN0512WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0512WBS01

Quant Time: May 15 01:36:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 09 05:58:09 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 05/15/2023
 Supervised By : Mahesh Dadoda 05/15/2023

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

Internal Standards						
1) Bromochloromethane	7.818	128	99661	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	568259	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	516678	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	202399	28.240	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.133%		
60) 4-Bromofluorobenzene	12.853	95	238912	29.081	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.933%		
63) Toluene-d8	10.571	98	679735	28.484	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	94.933%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	109266	16.699	ug/l	99
3) Chloromethane	2.359	50	83713	16.834	ug/l	96
4) Vinyl Chloride	2.512	62	116357	15.207	ug/l	96
5) Bromomethane	2.906	94	50933	9.986	ug/l	93
6) Chloroethane	3.077	64	67011	13.405	ug/l	94
7) Trichlorofluoromethane	3.483	101	179701	17.268	ug/l	100
8) Diethyl Ether	3.959	74	67599	20.611	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.365	101	99206	17.662	ug/l	88
10) 1,1-Dichloroethene	4.336	96	98637	18.577	ug/l	86
11) Methyl Iodide	4.583	142	149456	18.097	ug/l	93
12) Methyl Acetate	5.024	43	166304	25.909	ug/l	99
13) Acrolein	4.183	56	88396	112.428	ug/l	96
14) Acrylonitrile	5.718	53	218550	111.934	ug/l	98
15) Acetone	4.424	58	65055	109.781	ug/l	96
16) Carbon Disulfide	4.706	76	207543	16.271	ug/l	98
17) Allyl chloride	5.024	41	101349	18.387	ug/l	97
18) Methylene Chloride	5.271	84	118686	18.391	ug/l	94
19) trans-1,2-Dichloroethene	5.789	96	106891	17.894	ug/l	97
20) Diisopropyl ether	6.671	45	265632	19.815	ug/l #	90
21) 1,1-Dichloroethane	6.565	63	181846	18.493	ug/l	98
22) cis-1,2-Dichloroethene	7.489	96	134259	18.652	ug/l	91
23) tert-Butyl Alcohol	5.524	59	76537	100.064	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	340124	18.924	ug/l #	82
25) Chloroform	7.965	83	213682	18.231	ug/l	99
26) Cyclohexane	8.259	56	134273	16.634	ug/l #	94
29) 1,1-Dichloropropene	8.371	75	141827	17.337	ug/l	95
30) 2-Butanone	7.483	43	270745	124.164	ug/l	96
31) 2,2-Dichloropropane	7.494	77	157176	16.491	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	186793	17.643	ug/l	96
33) Carbon Tetrachloride	8.359	117	164033	18.321	ug/l	99
34) Benzene	8.606	78	464070	18.787	ug/l	99
35) Methacrylonitrile	7.777	41	55015	22.228	ug/l	93
36) 1,2-Dichloroethane	8.671	62	157686	19.148	ug/l	96
37) Trichloroethene	9.353	130	128316	20.095	ug/l	87
38) Methylcyclohexane	9.600	83	175112	16.625	ug/l	95
39) 1,2-Dichloropropane	9.624	63	106623	18.644	ug/l	90
40) Dibromomethane	9.712	93	83526	18.526	ug/l	82
41) Bromodichloromethane	9.888	83	161205	17.756	ug/l	98
42) Vinyl Acetate	6.600	43	689924	85.296	ug/l	94

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43) Ethyl Acetate	7.559	43	95308	20.338	ug/l #	84
44) Isopropyl Acetate	8.688	43	179108	20.874	ug/l	93
45) 1,4-Dioxane	9.694	88	44952	421.458	ug/l	98
46) Methyl methacrylate	9.683	41	87721	22.764	ug/l	95
47) n-amyl Acetate	12.500	43	146847	19.871	ug/l	96
48) t-1,3-Dichloropropene	10.841	75	155812	17.023	ug/l	95
49) cis-1,3-Dichloropropene	10.318	75	173771	17.322	ug/l	98
50) 1,1,2-Trichloroethane	11.018	97	125821	19.378	ug/l	94
51) Ethyl methacrylate	10.877	69	164000	19.566	ug/l	94
52) 1,3-Dichloropropane	11.165	76	203027	19.339	ug/l	98
53) Dibromochloromethane	11.365	129	127843	18.925	ug/l	98
54) 1,2-Dibromoethane	11.471	107	130050	20.164	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	381371	100.618	ug/l	96
56) Bromoform	12.582	173	90550	22.780	ug/l #	98
58) 4-Methyl-2-Pentanone	10.447	43	555049	116.654	ug/l	96
59) 2-Hexanone	11.200	43	405284	117.998	ug/l	96
61) Tetrachloroethene	11.106	164	105418	21.093	ug/l	93
62) Toluene	10.635	91	529280	18.503	ug/l	99
64) Chlorobenzene	11.894	112	340955	19.381	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.965	131	122845	19.357	ug/l	92
66) Ethyl Benzene	11.971	91	565011	17.826	ug/l	98
67) m/p-Xylenes	12.076	106	458947	36.803	ug/l	94
68) o-Xylene	12.406	106	228202	18.569	ug/l	94
69) Styrene	12.418	104	371633	18.912	ug/l	96
70) Isopropylbenzene	12.700	105	583609	18.283	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	174489	20.384	ug/l	97
72) 1,2,3-Trichloropropane	13.000	75	142479m	20.004	ug/l	
73) Bromobenzene	12.988	156	150506	22.549	ug/l	79
74) n-propylbenzene	13.041	91	648338	18.166	ug/l	96
75) 2-Chlorotoluene	13.129	91	404857	18.756	ug/l	94
76) 1,3,5-Trimethylbenzene	13.182	105	490786	19.455	ug/l	96
77) t-1,4-Dichloro-2-butene	12.747	75	40612	16.368	ug/l	96
78) 4-Chlorotoluene	13.229	91	392746	18.634	ug/l	94
79) tert-butylbenzene	13.447	119	450050	19.920	ug/l	91
80) 1,2,4-Trimethylbenzene	13.488	105	467641	19.101	ug/l	97
81) sec-Butylbenzene	13.623	105	611298	19.277	ug/l	96
82) p-Isopropyltoluene	13.735	119	497855	19.731	ug/l	97
83) 1,3-Dichlorobenzene	13.741	146	267868	21.612	ug/l	96
84) 1,4-Dichlorobenzene	13.818	146	264249	21.779	ug/l	97
85) n-Butylbenzene	14.065	91	348853	16.806	ug/l	97
86) Hexachloroethane	14.341	117	82901	17.630	ug/l	67
87) 1,2-Dichlorobenzene	14.112	146	262102	21.785	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.729	75	29125	18.723	ug/l #	76
89) 1,2,4-Trichlorobenzene	15.400	180	66191	15.969	ug/l	95
90) Hexachlorobutadiene	15.512	225	64381	27.544	ug/l	94
91) Naphthalene	15.647	128	174017	12.290	ug/l	98
92) 1,2,3-Trichlorobenzene	15.847	180	58542	15.335	ug/l	91

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

