

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041321\
 Data File : VN066579.D
 Acq On : 13 Apr 2021 14:54
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 4/15/2021 7:48:12 PM

Quant Time: Apr 14 11:30:57 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Apr 14 11:29:26 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.099	128	48845	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.510	114	232928	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.347	117	222316	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.944	65	136049	30.40	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	101.33%		
60) 4-Bromofluorobenzene	12.345	95	91209	25.54	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	85.13%		
63) Toluene-d8	10.025	98	321022	30.52	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.73%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.815	85	17008	4.74	ug/l	98
3) Chloromethane	2.014	50	26586	5.43	ug/l	96
4) Vinyl Chloride	2.140	62	22394	4.89	ug/l	92
5) Bromomethane	2.505	94	16352	5.50	ug/l	99
6) Chloroethane	2.641	64	15668	5.28	ug/l	97
7) Trichlorofluoromethane	2.955	101	34110	5.28	ug/l	98
8) Diethyl Ether	3.341	74	12643	5.27	ug/l	79
9) 1,1,2-Trichlorotrifluo...	3.663	101	17163m	5.20	ug/l	
10) 1,1-Dichloroethene	3.652	96	17176	5.33	ug/l #	80
11) Methyl Iodide	3.862	142	18590	4.46	ug/l	81
12) Methyl Acetate	4.232	43	38108	5.82	ug/l #	85
13) Acrolein	3.526	56	21426	30.29	ug/l	95
14) Acrylonitrile	4.878	53	46788	25.27	ug/l #	88
15) Acetone	3.733	58	19728	31.60	ug/l	83
16) Carbon Disulfide	3.958	76	62961	5.78	ug/l	95
17) Allyl chloride	4.218	41	40215	4.61	ug/l	92
18) Methylene Chloride	4.441	84	22352m	6.30	ug/l	
19) trans-1,2-Dichloroethene	4.918	96	16727	5.30	ug/l	95
20) Diisopropyl ether	5.854	45	60659	4.53	ug/l	88
21) 1,1-Dichloroethane	5.736	63	35800	5.38	ug/l	97
22) cis-1,2-Dichloroethene	6.723	96	17859	5.14	ug/l #	73
23) tert-Butyl Alcohol	4.698	59	17820m	30.03	ug/l	
24) Methyl tert-Butyl Ether	4.945	73	50371m	4.92	ug/l	
25) Chloroform	7.279	83	34889	5.29	ug/l	100
26) Cyclohexane	7.566	56	25218	4.30	ug/l #	89
29) 1,1-Dichloropropene	7.705	75	23565	4.97	ug/l	86
30) 2-Butanone	6.745	43	68262	25.34	ug/l #	73
31) 2,2-Dichloropropane	6.718	77	29710m	5.25	ug/l	
32) 1,1,1-Trichloroethane	7.480	97	29666	5.25	ug/l	94
33) Carbon Tetrachloride	7.684	117	24803	5.16	ug/l	95
34) Benzene	7.957	78	71265	5.07	ug/l #	53
35) Methacrylonitrile	7.093	41	15739m	5.85	ug/l	
36) 1,2-Dichloroethane	8.043	62	30201	5.34	ug/l #	90
37) Trichloroethene	8.762	130	17012	5.40	ug/l	100
38) Methylcyclohexane	9.000	83	22204	4.52	ug/l	88
39) 1,2-Dichloropropane	9.043	63	20446	5.19	ug/l	97
40) Dibromomethane	9.137	93	12998	5.27	ug/l	70
41) Bromodichloromethane	9.333	83	27890	5.15	ug/l	98
42) Vinyl Acetate	5.793	43	226654	19.79	ug/l	99

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43) Ethyl Acetate	6.839	43	33534m	5.69	ug/l	
44) Isopropyl Acetate	8.091	43	46227m	4.83	ug/l	
45) 1,4-Dioxane	9.137	88	5294	103.71	ug/l #	67
46) Methyl methacrylate	9.132	41	19648	4.36	ug/l	78
48) t-1,3-Dichloropropene	10.323	75	26208	4.73	ug/l	97
49) cis-1,3-Dichloropropene	9.775	75	27135	4.62	ug/l #	93
50) 1,1,2-Trichloroethane	10.500	97	17385	5.17	ug/l	94
51) Ethyl methacrylate	10.368	69	18938	3.96	ug/l	94
52) 1,3-Dichloropropane	10.644	76	29093	4.92	ug/l	100
53) Dibromochloromethane	10.840	129	18681	4.97	ug/l	97
54) 1,2-Dibromoethane	10.945	107	16713	4.96	ug/l	96
55) 2-Chloroethyl vinyl ether	9.631	63	7090	53.01	ug/l #	81
56) Bromoform	12.074	173	11431	4.58	ug/l #	95
58) 4-Methyl-2-Pentanone	9.920	43	131186	24.19	ug/l #	90
59) 2-Hexanone	10.695	43	80146	21.69	ug/l #	86
61) Tetrachloroethene	10.569	164	15011	5.62	ug/l	94
62) Toluene	10.089	91	70901	5.08	ug/l	99
64) Chlorobenzene	11.371	112	42002	5.17	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.449	131	17999	5.54	ug/l	97
66) Ethyl Benzene	11.452	91	67369	4.49	ug/l	94
67) m/p-Xylenes	11.564	106	49349	8.85	ug/l	96
68) o-Xylene	11.889	106	22102	4.37	ug/l	92
69) Styrene	11.908	104	34537	3.93	ug/l	97
70) Isopropylbenzene	12.192	105	55094	3.93	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.449	83	24231	4.94	ug/l	95
72) 1,2,3-Trichloropropane	12.498	75	23645m	5.26	ug/l	
73) Bromobenzene	12.468	156	15064	4.57	ug/l	94
74) n-propylbenzene	12.535	91	63052	3.77	ug/l	98
75) 2-Chlorotoluene	12.616	91	43213	4.28	ug/l	93
76) 1,3,5-Trimethylbenzene	12.677	105	46513	3.93	ug/l	99
77) t-1,4-Dichloro-2-butene	12.248	75	3512	2.75	ug/l	82
78) 4-Chlorotoluene	12.718	91	34592	3.48	ug/l	98
79) tert-butylbenzene	12.937	119	39133	4.03	ug/l	94
80) 1,2,4-Trimethylbenzene	12.986	105	40701	3.55	ug/l	93
81) sec-Butylbenzene	13.117	105	51433	3.82	ug/l	99
82) p-Isopropyltoluene	13.235	119	39742	3.43	ug/l	98
83) 1,3-Dichlorobenzene	13.230	146	24867	4.20	ug/l	95
84) 1,4-Dichlorobenzene	13.313	146	32556m	5.53	ug/l	
85) n-Butylbenzene	13.565	91	39631m	3.80	ug/l	
86) Hexachloroethane	13.815	117	12574	4.97	ug/l	78
87) 1,2-Dichlorobenzene	13.603	146	24388	4.23	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.246	75	4980m	5.60	ug/l	
89) 1,2,4-Trichlorobenzene	14.989	180	16924m	5.12	ug/l	
90) Hexachlorobutadiene	15.105	225	9266	5.10	ug/l	77
91) Naphthalene	15.268	128	49099	5.31	ug/l	98
92) 1,2,3-Trichlorobenzene	15.504	180	16252	4.97	ug/l	86

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

