

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041321\
 Data File : VN066575.D
 Acq On : 13 Apr 2021 13:19
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 4/14/2021 1:46:43 PM

Quant Time: Apr 13 13:53:12 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Apr 13 13:47:30 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.102	128	51765m	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.510	114	243457	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.347	117	246562	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.946	65	142183m	34.61	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 115.37%#			
60) 4-Bromofluorobenzene	12.342	95	124100	32.07	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 106.90%			
63) Toluene-d8	10.025	98	352922	30.10	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.33%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.815	85	204614	69.28	ug/l	98
3) Chloromethane	2.017	50	267426	70.87	ug/l	97
4) Vinyl Chloride	2.143	62	259372	67.06	ug/l	96
5) Bromomethane	2.502	94	160596	59.42	ug/l	94
6) Chloroethane	2.642	64	169796	68.10	ug/l	98
7) Trichlorofluoromethane	2.955	101	355377m	63.69	ug/l	
8) Diethyl Ether	3.339	74	132775m	69.77	ug/l	
9) 1,1,2-Trichlorotrifluo...	3.674	101	187619m	68.03	ug/l	
10) 1,1-Dichloroethene	3.650	96	176729	64.95	ug/l	85
11) Methyl Iodide	3.859	142	239913	62.85	ug/l	86
12) Methyl Acetate	4.229	43	353109m	79.98	ug/l	
13) Acrolein	3.524	56	192574	544.60	ug/l	92
14) Acrylonitrile	4.873	53	505737m	305.36	ug/l	
15) Acetone	3.733	58	170814m	325.12	ug/l	
16) Carbon Disulfide	3.958	76	591326	75.28	ug/l	98
17) Allyl chloride	4.219	41	502078	96.63	ug/l	95
18) Methylene Chloride	4.441	84	183283	58.13	ug/l #	86
19) trans-1,2-Dichloroethene	4.921	96	172070m	59.64	ug/l	
20) Diisopropyl ether	5.855	45	746575	70.23	ug/l	96
21) 1,1-Dichloroethane	5.737	63	367853	64.27	ug/l	99
22) cis-1,2-Dichloroethene	6.726	96	189772	56.08	ug/l	87
23) tert-Butyl Alcohol	4.709	59	151475m	235.85	ug/l	
24) Methyl tert-Butyl Ether	4.937	73	561506	57.36	ug/l	95
25) Chloroform	7.279	83	362588	63.17	ug/l	98
26) Cyclohexane	7.662	56	411142	83.24	ug/l #	24
29) 1,1-Dichloropropene	7.705	75	264797	71.44	ug/l	97
30) 2-Butanone	6.742	43	748045	348.03	ug/l	92
31) 2,2-Dichloropropane	6.721	77	320289	69.63	ug/l	97
32) 1,1,1-Trichloroethane	7.480	97	316654	69.56	ug/l	98
33) Carbon Tetrachloride	7.686	117	267982	69.63	ug/l	96
34) Benzene	7.957	78	789616	69.93	ug/l	96
35) Methacrylonitrile	7.075	41	131829	71.07	ug/l	93
36) 1,2-Dichloroethane	8.040	62	310908	73.92	ug/l	98
37) Trichloroethene	8.759	130	172754	60.44	ug/l	93
38) Methylcyclohexane	9.006	83	282180	64.51	ug/l	89
39) 1,2-Dichloropropane	9.043	63	222542	72.17	ug/l	99
40) Dibromomethane	9.137	93	137387	69.52	ug/l	89
41) Bromodichloromethane	9.333	83	302719	71.98	ug/l	99
42) Vinyl Acetate	5.790	43	3277430	396.20	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.836	43	318367	77.21	ug/l #	87
44) Isopropyl Acetate	8.089	43	525965	71.72	ug/l #	83
45) 1,4-Dioxane	9.132	88	54710	1227.26	ug/l #	87
46) Methyl methacrylate	9.132	41	257911	76.12	ug/l	89
47) n-amyl Acetate	12.015	43	296007	107.09	ug/l	100
48) t-1,3-Dichloropropene	10.320	75	304255	68.34	ug/l	99
49) cis-1,3-Dichloropropene	9.773	75	331096	69.25	ug/l	93
50) 1,1,2-Trichloroethane	10.500	97	187440	67.31	ug/l	98
51) Ethyl methacrylate	10.368	69	274656	66.45	ug/l	87
52) 1,3-Dichloropropane	10.645	76	328469	70.07	ug/l	100
53) Dibromochloromethane	10.840	129	208266	67.53	ug/l	98
54) 1,2-Dibromoethane	10.945	107	185654	65.59	ug/l	100
55) 2-Chloroethyl vinyl ether	9.628	63	141452	242.16	ug/l	99
56) Bromoform	12.069	173	142179	63.87	ug/l #	100
58) 4-Methyl-2-Pentanone	9.918	43	1634557m	332.10	ug/l	
59) 2-Hexanone	10.690	43	1112474	333.58	ug/l	93
61) Tetrachloroethene	10.567	164	155045	47.90	ug/l	97
62) Toluene	10.089	91	826551	61.07	ug/l	99
64) Chlorobenzene	11.371	112	471064	59.41	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.449	131	187572	59.57	ug/l	99
66) Ethyl Benzene	11.452	91	915048	63.53	ug/l	96
67) m/p-Xylenes	11.562	106	681100	126.71	ug/l	97
68) o-Xylene	11.889	106	311260	59.56	ug/l	92
69) Styrene	11.905	104	542801	64.43	ug/l	98
70) Isopropylbenzene	12.192	105	874201	63.57	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.447	83	294953	65.42	ug/l	99
72) 1,2,3-Trichloropropane	12.495	75	269850m	64.07	ug/l	
73) Bromobenzene	12.468	156	196256	57.76	ug/l	85
74) n-propylbenzene	12.533	91	1062542	68.87	ug/l	97
75) 2-Chlorotoluene	12.616	91	620700	66.29	ug/l	94
76) 1,3,5-Trimethylbenzene	12.675	105	742076	64.91	ug/l	98
77) t-1,4-Dichloro-2-butene	12.243	75	75998	57.37	ug/l	89
78) 4-Chlorotoluene	12.715	91	631771	68.54	ug/l	96
79) tert-butylbenzene	12.935	119	599742	61.15	ug/l	95
80) 1,2,4-Trimethylbenzene	12.983	105	731426	66.06	ug/l	98
81) sec-Butylbenzene	13.115	105	852239	67.53	ug/l	97
82) p-Isopropyltoluene	13.233	119	738216	66.47	ug/l	96
83) 1,3-Dichlorobenzene	13.225	146	365100	64.53	ug/l	98
84) 1,4-Dichlorobenzene	13.305	146	341725	63.16	ug/l	97
85) n-Butylbenzene	13.560	91	647314	72.30	ug/l	99
86) Hexachloroethane	13.815	117	151841	71.08	ug/l	81
87) 1,2-Dichlorobenzene	13.595	146	353153	63.50	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.230	75	49698	55.32	ug/l #	82
89) 1,2,4-Trichlorobenzene	14.979	180	192621	56.38	ug/l	98
90) Hexachlorobutadiene	15.105	225	110070	57.30	ug/l	98
91) Naphthalene	15.263	128	499886	49.68	ug/l	99
92) 1,2,3-Trichlorobenzene	15.499	180	184625	54.92	ug/l	98

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

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ALS Vial  : 6      Sample Multiplier: 1
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