

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042021\
 Data File : VN066674.D
 Acq On : 20 Apr 2021 11:30
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 4/21/2021 4:34:45 PM

Quant Time: Apr 20 12:09:30 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042021W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Apr 20 12:02:37 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.113	128	47246	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.519	114	246282	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.348	117	233129	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.953	65	101866	25.12	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	83.73%#		
60) 4-Bromofluorobenzene	12.346	95	110738	31.21	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	104.03%		
63) Toluene-d8	10.029	98	324301	29.31	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.70%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.835	85	122099	39.78	ug/l	97
3) Chloromethane	2.037	50	187443	41.81	ug/l	99
4) Vinyl Chloride	2.163	62	184039	45.04	ug/l	99
5) Bromomethane	2.514	94	111049	41.37	ug/l	95
6) Chloroethane	2.659	64	112833	41.80	ug/l	97
7) Trichlorofluoromethane	2.973	101	205332	37.03	ug/l	99
8) Diethyl Ether	3.359	74	90515	42.35	ug/l	90
9) 1,1,2-Trichlorotrifluo...	3.697	101	129856	43.46	ug/l	98
10) 1,1-Dichloroethene	3.675	96	131476	45.07	ug/l	95
11) Methyl Iodide	3.887	142	202182	53.53	ug/l	98
12) Methyl Acetate	4.252	43	173862	30.70	ug/l	99
13) Acrolein	3.549	56	122782	186.08	ug/l	96
14) Acrylonitrile	4.895	53	398834	238.18	ug/l	98
15) Acetone	3.753	58	102017	174.08	ug/l	87
16) Carbon Disulfide	3.986	76	405108	40.68	ug/l	99
17) Allyl chloride	4.249	41	241211	33.83	ug/l	91
18) Methylene Chloride	4.472	84	168046	47.76	ug/l	98
19) trans-1,2-Dichloroethene	4.954	96	148768	50.04	ug/l	99
20) Diisopropyl ether	5.866	45	558084	48.31	ug/l	98
21) 1,1-Dichloroethane	5.759	63	297170	47.91	ug/l	99
22) cis-1,2-Dichloroethene	6.741	96	173851	53.02	ug/l	99
23) tert-Butyl Alcohol	4.705	59	129167	227.03	ug/l #	100
24) Methyl tert-Butyl Ether	4.954	73	467659	50.79	ug/l	94
25) Chloroform	7.293	83	283423	46.74	ug/l	95
26) Cyclohexane	7.580	56	257639	46.80	ug/l #	96
29) 1,1-Dichloropropene	7.720	75	210660	45.76	ug/l	99
30) 2-Butanone	6.746	43	502946	196.70	ug/l	100
31) 2,2-Dichloropropane	6.738	77	239128	42.53	ug/l	98
32) 1,1,1-Trichloroethane	7.494	97	234109	42.03	ug/l	99
33) Carbon Tetrachloride	7.698	117	199287	42.61	ug/l	95
34) Benzene	7.969	78	674557	47.58	ug/l #	93
35) Methacrylonitrile	7.087	41	94199	36.69	ug/l	98
36) 1,2-Dichloroethane	8.052	62	216773	39.33	ug/l	98
37) Trichloroethene	8.771	130	161095	49.55	ug/l	97
38) Methylcyclohexane	9.015	83	253048	52.81	ug/l	97
39) 1,2-Dichloropropane	9.053	63	183935	46.00	ug/l	100
40) Dibromomethane	9.144	93	108966	43.94	ug/l	99
41) Bromodichloromethane	9.339	83	231683	43.40	ug/l	98
42) Vinyl Acetate	5.807	43	2321561	227.98	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.843	43	236097m	40.63	ug/l	
44) Isopropyl Acetate	8.092	43	368725	41.44	ug/l #	88
45) 1,4-Dioxane	9.136	88	52196	977.13	ug/l	99
46) Methyl methacrylate	9.136	41	171535	42.17	ug/l	91
47) n-amyl Acetate	12.019	43	173479	71.63	ug/l #	91
48) t-1,3-Dichloropropene	10.321	75	252243	47.61	ug/l	100
49) cis-1,3-Dichloropropene	9.777	75	281704	49.52	ug/l	91
50) 1,1,2-Trichloroethane	10.501	97	162108	47.31	ug/l	98
51) Ethyl methacrylate	10.372	69	233104	52.94	ug/l	92
52) 1,3-Dichloropropane	10.648	76	277276	47.50	ug/l	99
53) Dibromochloromethane	10.841	129	173420	46.56	ug/l	98
54) 1,2-Dibromoethane	10.946	107	161699	48.03	ug/l	98
55) 2-Chloroethyl vinyl ether	9.635	63	169237	362.08	ug/l	99
56) Bromoform	12.070	173	124982	50.38	ug/l #	98
58) 4-Methyl-2-Pentanone	9.921	43	1082765	210.04	ug/l	99
59) 2-Hexanone	10.691	43	709361	214.71	ug/l	97
61) Tetrachloroethene	10.573	164	137965	48.90	ug/l	99
62) Toluene	10.093	91	716955	50.47	ug/l	100
64) Chlorobenzene	11.375	112	427277	51.41	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.450	131	159810	47.78	ug/l	98
66) Ethyl Benzene	11.453	91	781037	53.31	ug/l	98
67) m/p-Xylenes	11.563	106	586900	107.50	ug/l	99
68) o-Xylene	11.890	106	284595	56.49	ug/l	100
69) Styrene	11.909	104	463194	56.38	ug/l	98
70) Isopropylbenzene	12.193	105	747716	56.00	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.448	83	236807	47.35	ug/l	97
72) 1,2,3-Trichloropropane	12.496	75	209060m	46.18	ug/l	
73) Bromobenzene	12.469	156	184644	55.91	ug/l	97
74) n-propylbenzene	12.534	91	873849	55.96	ug/l	99
75) 2-Chlorotoluene	12.617	91	522464	53.64	ug/l	99
76) 1,3,5-Trimethylbenzene	12.679	105	628341	55.50	ug/l	99
77) t-1,4-Dichloro-2-butene	12.244	75	69871	66.91	ug/l	92
78) 4-Chlorotoluene	12.716	91	515365	57.10	ug/l	99
79) tert-butylbenzene	12.936	119	522640	56.21	ug/l	99
80) 1,2,4-Trimethylbenzene	12.984	105	613419	57.97	ug/l	100
81) sec-Butylbenzene	13.116	105	709739	56.34	ug/l	99
82) p-Isopropyltoluene	13.234	119	607436	58.20	ug/l	99
83) 1,3-Dichlorobenzene	13.226	146	315527	55.83	ug/l	100
84) 1,4-Dichlorobenzene	13.306	146	317248	53.00	ug/l	98
85) n-Butylbenzene	13.558	91	501963	54.84	ug/l	100
86) Hexachloroethane	13.816	117	122585	48.88	ug/l	95
87) 1,2-Dichlorobenzene	13.596	146	311640	56.31	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.215	75	38655	44.69	ug/l	98
89) 1,2,4-Trichlorobenzene	14.851	180	179805	55.47	ug/l	98
90) Hexachlorobutadiene	14.948	225	96399	51.54	ug/l	99
91) Naphthalene	15.071	128	431022	49.56	ug/l	100
92) 1,2,3-Trichlorobenzene	15.248	180	169432	53.30	ug/l	99

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

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