

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042021\
 Data File : VN066675.D
 Acq On : 20 Apr 2021 11:54
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 4/21/2021 4:34:46 PM

Quant Time: Apr 20 12:16:35 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	7.114	128	53036	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.519	114	283970	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.348	117	270306	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.953	65	114160	25.08	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery	=	83.60%#	
60) 4-Bromofluorobenzene	12.343	95	132870	32.29	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery	=	107.63%	
63) Toluene-d8	10.029	98	368515	28.72	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery	=	95.73%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.835	85	274642	79.72	ug/l	96
3) Chloromethane	2.034	50	418329	83.12	ug/l	100
4) Vinyl Chloride	2.163	62	411769	89.77	ug/l	100
5) Bromomethane	2.501	94	253342	84.08	ug/l	96
6) Chloroethane	2.651	64	252770	83.42	ug/l	96
7) Trichlorofluoromethane	2.967	101	454435	73.01	ug/l	100
8) Diethyl Ether	3.356	74	207957	86.68	ug/l	93
9) 1,1,2-Trichlorotrifluo...	3.697	101	289288	86.24	ug/l	98
10) 1,1-Dichloroethene	3.673	96	298449	91.13	ug/l	94
11) Methyl Iodide	3.885	142	458654	108.18	ug/l	96
12) Methyl Acetate	4.249	43	384813	60.53	ug/l	99
13) Acrolein	3.547	56	280881	379.21	ug/l	95
14) Acrylonitrile	4.893	53	888995	472.94	ug/l	98
15) Acetone	3.753	58	223649	339.98	ug/l	87
16) Carbon Disulfide	3.984	76	914631	81.81	ug/l	100
17) Allyl chloride	4.247	41	614640	76.79	ug/l	91
18) Methylene Chloride	4.469	84	371013	93.94	ug/l	98
19) trans-1,2-Dichloroethene	4.952	96	338347	101.39	ug/l	98
20) Diisopropyl ether	5.864	45	1255266	96.79	ug/l	96
21) 1,1-Dichloroethane	5.757	63	657518	94.43	ug/l	99
22) cis-1,2-Dichloroethene	6.741	96	397049	107.88	ug/l	99
23) tert-Butyl Alcohol	4.705	59	281582	440.89	ug/l #	100
24) Methyl tert-Butyl Ether	4.957	73	1056009	102.17	ug/l	94
25) Chloroform	7.291	83	630404	92.61	ug/l	97
26) Cyclohexane	7.578	56	600965	97.24	ug/l #	97
29) 1,1-Dichloropropene	7.717	75	488656	92.05	ug/l	100
30) 2-Butanone	6.746	43	1125637	381.80	ug/l	99
31) 2,2-Dichloropropane	6.735	77	538114	83.00	ug/l	98
32) 1,1,1-Trichloroethane	7.492	97	527683	82.16	ug/l	99
33) Carbon Tetrachloride	7.698	117	453428	84.07	ug/l	96
34) Benzene	7.969	78	1533001	93.78	ug/l #	90
35) Methacrylonitrile	7.087	41	219987	74.31	ug/l	98
36) 1,2-Dichloroethane	8.052	62	491194	77.29	ug/l	98
37) Trichloroethene	8.771	130	364949	97.36	ug/l	99
38) Methylcyclohexane	9.015	83	599337	108.47	ug/l	98
39) 1,2-Dichloropropane	9.053	63	416011	90.22	ug/l	98
40) Dibromomethane	9.144	93	247058	86.41	ug/l	99
41) Bromodichloromethane	9.337	83	521278	84.68	ug/l	99
42) Vinyl Acetate	5.805	43	5248138	446.97	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.843	43	485947	72.53	ug/l #	81
44) Isopropyl Acetate	8.095	43	840224	81.90	ug/l #	89
45) 1,4-Dioxane	9.136	88	114654	1861.51	ug/l	98
46) Methyl methacrylate	9.136	41	399184	85.11	ug/l	91
47) n-amyl Acetate	12.016	43	586520	210.04	ug/l	96
48) t-1,3-Dichloropropene	10.321	75	589249	96.47	ug/l	99
49) cis-1,3-Dichloropropene	9.777	75	647051	98.65	ug/l	92
50) 1,1,2-Trichloroethane	10.501	97	360194	91.18	ug/l	97
51) Ethyl methacrylate	10.370	69	558077	109.93	ug/l	93
52) 1,3-Dichloropropane	10.646	76	625772	92.97	ug/l	99
53) Dibromochloromethane	10.842	129	400794	93.32	ug/l	99
54) 1,2-Dibromoethane	10.946	107	371656	95.74	ug/l	99
55) 2-Chloroethyl vinyl ether	9.632	63	438402	813.47	ug/l	99
56) Bromoform	12.070	173	291484	101.90	ug/l #	99
58) 4-Methyl-2-Pentanone	9.922	43	2429294	406.44	ug/l	98
59) 2-Hexanone	10.691	43	1681093	438.85	ug/l	98
61) Tetrachloroethene	10.573	164	309603	94.64	ug/l	97
62) Toluene	10.093	91	1632835	99.14	ug/l	99
64) Chlorobenzene	11.375	112	978683	101.56	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.450	131	366748	94.58	ug/l	99
66) Ethyl Benzene	11.453	91	1820982	107.19	ug/l	99
67) m/p-Xylenes	11.563	106	1361507	215.08	ug/l	98
68) o-Xylene	11.890	106	658748	112.77	ug/l	99
69) Styrene	11.906	104	1108195	116.35	ug/l	99
70) Isopropylbenzene	12.193	105	1746332	112.81	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.448	83	535612	92.37	ug/l	99
72) 1,2,3-Trichloropropane	12.496	75	500335m	95.32	ug/l	
73) Bromobenzene	12.467	156	431627	112.73	ug/l	96
74) n-propylbenzene	12.534	91	2081491	114.96	ug/l	99
75) 2-Chlorotoluene	12.617	91	1221084	108.11	ug/l	98
76) 1,3,5-Trimethylbenzene	12.676	105	1476846	112.51	ug/l	100
77) t-1,4-Dichloro-2-butene	12.244	75	177041	146.22	ug/l	90
78) 4-Chlorotoluene	12.716	91	1249286	119.38	ug/l	99
79) tert-butylbenzene	12.936	119	1237527	114.80	ug/l	99
80) 1,2,4-Trimethylbenzene	12.982	105	1459731	118.98	ug/l	100
81) sec-Butylbenzene	13.116	105	1707303	116.89	ug/l	99
82) p-Isopropyltoluene	13.231	119	1487235	122.90	ug/l	100
83) 1,3-Dichlorobenzene	13.226	146	751631	114.70	ug/l	99
84) 1,4-Dichlorobenzene	13.306	146	737485	106.26	ug/l	98
85) n-Butylbenzene	13.558	91	1287243	121.29	ug/l	99
86) Hexachloroethane	13.816	117	290395	99.87	ug/l	95
87) 1,2-Dichlorobenzene	13.596	146	726876	113.27	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.213	75	88955	88.71	ug/l	99
89) 1,2,4-Trichlorobenzene	14.848	180	434954	115.72	ug/l	97
90) Hexachlorobutadiene	14.948	225	222469	102.58	ug/l	100
91) Naphthalene	15.068	128	1056290	104.76	ug/l	100
92) 1,2,3-Trichlorobenzene	15.248	180	405261	109.95	ug/l	99

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

