

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050721\
 Data File : VN067020.D
 Acq On : 6 May 2021 19:36
 Operator : JC/MD
 Sample : VSTDIC010
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC010

Manual Integrations
 APPROVED

MMDadoda
 5/7/2021 6:23:26 PM

Quant Time: May 07 06:10:25 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050721W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 07 06:08:19 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.115	128	76912	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.517	114	388510	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.352	117	362191	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.954	65	202973	13.10	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	43.67%#	
60) 4-Bromofluorobenzene	12.350	95	169997	12.28	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	40.93%#	
63) Toluene-d8	10.030	98	543400	13.17	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	43.90%#	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.834	85	50096	6.32	ug/l	98
3) Chloromethane	2.032	50	79480	7.01	ug/l	97
4) Vinyl Chloride	2.161	62	78144	7.18	ug/l	97
5) Bromomethane	2.494	94	46214	7.69	ug/l	98
6) Chloroethane	2.647	64	46246	7.49	ug/l	99
7) Trichlorofluoromethane	2.966	101	98991	7.39	ug/l	96
8) Diethyl Ether	3.355	74	32451	7.58	ug/l	97
9) 1,1,2-Trichlorotrifluo...	3.684	101	47912	7.40	ug/l	99
10) 1,1-Dichloroethene	3.668	96	44101	7.21	ug/l	95
11) Methyl Iodide	3.883	142	60365	7.30	ug/l	96
12) Methyl Acetate	4.253	43	65292	7.75	ug/l	96
13) Acrolein	3.545	56	52824	38.99	ug/l	97
14) Acrylonitrile	4.897	53	123734	36.15	ug/l	98
15) Acetone	3.754	58	36284	36.84	ug/l	97
16) Carbon Disulfide	3.979	76	151880	7.45	ug/l	98
17) Allyl chloride	4.240	41	87489	7.96	ug/l	99
18) Methylene Chloride	4.465	84	62284	7.58	ug/l	97
19) trans-1,2-Dichloroethene	4.945	96	49884	7.44	ug/l	89
20) Diisopropyl ether	5.865	45	166095	7.42	ug/l	94
21) 1,1-Dichloroethane	5.758	63	111243	7.61	ug/l	98
22) cis-1,2-Dichloroethene	6.742	96	57582	7.49	ug/l	97
23) tert-Butyl Alcohol	4.709	59	47531	36.61	ug/l #	100
24) Methyl tert-Butyl Ether	4.956	73	145832m	7.20	ug/l	
25) Chloroform	7.292	83	106007	7.62	ug/l	98
26) Cyclohexane	7.573	56	71879	7.13	ug/l #	100
29) 1,1-Dichloropropene	7.715	75	70140	7.36	ug/l	98
30) 2-Butanone	6.755	43	167551	37.34	ug/l #	98
31) 2,2-Dichloropropane	6.734	77	88813	7.88	ug/l	99
32) 1,1,1-Trichloroethane	7.493	97	95383	7.76	ug/l	99
33) Carbon Tetrachloride	7.697	117	82739	7.74	ug/l	95
34) Benzene	7.968	78	232147	7.56	ug/l #	92
35) Methacrylonitrile	7.085	41	27453	7.07	ug/l	92
36) 1,2-Dichloroethane	8.051	62	85620	7.47	ug/l	99
37) Trichloroethene	8.769	130	50165	7.58	ug/l	100
38) Methylcyclohexane	9.016	83	64126	6.99	ug/l	98
39) 1,2-Dichloropropane	9.054	63	64120	7.45	ug/l	96
40) Dibromomethane	9.148	93	39840	7.65	ug/l	98
41) Bromodichloromethane	9.338	83	84333	7.77	ug/l	99
42) Vinyl Acetate	5.806	43	717433	36.43	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.849	43	72549	7.41	ug/l #	84
44) Isopropyl Acetate	8.096	43	119150	7.47	ug/l	99
45) 1,4-Dioxane	9.140	88	14976	149.95	ug/l #	88
46) Methyl methacrylate	9.137	41	45768	6.96	ug/l	97
48) t-1,3-Dichloropropene	10.325	75	81518	7.28	ug/l	95
49) cis-1,3-Dichloropropene	9.778	75	90813	7.31	ug/l	99
50) 1,1,2-Trichloroethane	10.505	97	55915	7.70	ug/l	96
51) Ethyl methacrylate	10.376	69	63405	6.90	ug/l	99
52) 1,3-Dichloropropane	10.647	76	92474	7.41	ug/l	99
53) Dibromochloromethane	10.843	129	59115	7.45	ug/l	99
54) 1,2-Dibromoethane	10.947	107	51704	7.38	ug/l	99
55) 2-Chloroethyl vinyl ether	9.636	63	57959	34.12	ug/l	98
56) Bromoform	12.074	173	38091	7.53	ug/l #	97
58) 4-Methyl-2-Pentanone	9.923	43	347199	36.50	ug/l	99
59) 2-Hexanone	10.698	43	178481	32.12	ug/l	97
61) Tetrachloroethene	10.574	164	44024	7.67	ug/l	96
62) Toluene	10.094	91	236224	7.64	ug/l	100
64) Chlorobenzene	11.376	112	134986	7.42	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.451	131	56456	7.90	ug/l	97
66) Ethyl Benzene	11.457	91	221945	7.03	ug/l	99
67) m/p-Xylenes	11.569	106	167140	14.20	ug/l	98
68) o-Xylene	11.894	106	84202	7.34	ug/l	96
69) Styrene	11.915	104	122057	6.85	ug/l	100
70) Isopropylbenzene	12.197	105	211217	7.04	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.452	83	79996	6.97	ug/l	97
72) 1,2,3-Trichloropropane	12.505	75	75686m	7.59	ug/l	
73) Bromobenzene	12.476	156	52215	7.12	ug/l	97
74) n-propylbenzene	12.540	91	230694	6.63	ug/l	99
75) 2-Chlorotoluene	12.621	91	159207	6.93	ug/l	97
76) 1,3,5-Trimethylbenzene	12.680	105	182823	6.81	ug/l	99
77) t-1,4-Dichloro-2-butene	12.267	75	10550	4.92	ug/l	97
78) 4-Chlorotoluene	12.725	91	133048	6.23	ug/l	95
79) tert-butylbenzene	12.940	119	155518	6.93	ug/l	98
80) 1,2,4-Trimethylbenzene	12.988	105	168968	6.70	ug/l	96
81) sec-Butylbenzene	13.120	105	196151	6.65	ug/l	100
82) p-Isopropyltoluene	13.238	119	156665	6.71	ug/l	98
83) 1,3-Dichlorobenzene	13.235	146	82113	6.91	ug/l	99
84) 1,4-Dichlorobenzene	13.315	146	71109	6.34	ug/l	98
85) n-Butylbenzene	13.570	91	116493	6.69	ug/l	95
86) Hexachloroethane	13.817	117	38410	7.53	ug/l	99
87) 1,2-Dichlorobenzene	13.605	146	89831	7.15	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.235	75	14476m	8.35	ug/l	
89) 1,2,4-Trichlorobenzene	14.866	180	40494	6.96	ug/l	95
90) Hexachlorobutadiene	14.951	225	30634	7.61	ug/l	96
91) Naphthalene	15.080	128	104605	6.43	ug/l	97
92) 1,2,3-Trichlorobenzene	15.257	180	45061	7.15	ug/l	97

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

