

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN011321\
 Data File : VN065496.D
 Acq On : 13 Jan 2021 19:08
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 1/15/2021 4:13:55 PM

Quant Time: Jan 14 03:59:07 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N011321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jan 14 03:54:03 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.158	128	44136	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.553	114	238233	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.379	117	223791	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.990	65	81847	26.27	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	87.57%#	
60) 4-Bromofluorobenzene	12.376	95	104219	29.64	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	98.80%	
63) Toluene-d8	10.061	98	289298	29.20	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	97.33%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.846	85	226584	96.49	ug/l	95
3) Chloromethane	2.052	50	281447	102.74	ug/l	99
4) Vinyl Chloride	2.177	62	312500	108.29	ug/l	99
5) Bromomethane	2.518	94	223297	105.88	ug/l	97
6) Chloroethane	2.672	64	203105	109.20	ug/l	100
7) Trichlorofluoromethane	2.994	101	409316	98.84	ug/l	99
8) Diethyl Ether	3.386	74	168997	109.17	ug/l	95
9) 1,1,2-Trichlorotrifluo...	3.721	101	240659	103.72	ug/l	99
10) 1,1-Dichloroethene	3.698	96	250227	106.04	ug/l	100
11) Methyl Iodide	3.914	142	409654	114.83	ug/l	99
12) Methyl Acetate	4.293	43	246154	100.54	ug/l	95
13) Acrolein	3.576	56	209187	595.80	ug/l	99
14) Acrylonitrile	4.949	53	584759	515.59	ug/l	99
15) Acetone	3.791	58	166939	480.50	ug/l	90
16) Carbon Disulfide	4.010	76	624010	94.49	ug/l	98
17) Allyl chloride	4.280	41	362775	90.62	ug/l	99
18) Methylene Chloride	4.508	84	264600	98.23	ug/l	100
19) trans-1,2-Dichloroethene	4.991	96	254857	99.70	ug/l	99
20) Diisopropyl ether	5.920	45	754341	92.84	ug/l	94
21) 1,1-Dichloroethane	5.801	63	448017	97.16	ug/l	100
22) cis-1,2-Dichloroethene	6.785	96	299926	102.29	ug/l	97
23) tert-Butyl Alcohol	4.782	59	180014	390.17	ug/l #	100
24) Methyl tert-Butyl Ether	5.010	73	759910	95.11	ug/l	97
25) Chloroform	7.335	83	457917	96.46	ug/l	100
26) Cyclohexane	7.614	56	384776	96.11	ug/l #	99
29) 1,1-Dichloropropene	7.753	75	356989	102.49	ug/l	99
30) 2-Butanone	6.801	43	716881	460.49	ug/l	99
31) 2,2-Dichloropropane	6.782	77	362696	87.28	ug/l	99
32) 1,1,1-Trichloroethane	7.531	97	394697	94.66	ug/l	99
33) Carbon Tetrachloride	7.737	117	357009	97.58	ug/l	100
34) Benzene	8.007	78	1080509	103.97	ug/l #	89
35) Methacrylonitrile	7.132	41	153920	104.49	ug/l	99
36) 1,2-Dichloroethane	8.090	62	346581	91.38	ug/l	98
37) Trichloroethene	8.804	130	320565	107.23	ug/l	99
38) Methylcyclohexane	9.048	83	421741	100.10	ug/l	98
39) 1,2-Dichloropropane	9.087	63	280884	103.58	ug/l	99
40) Dibromomethane	9.177	93	188623	103.24	ug/l	100
41) Bromodichloromethane	9.370	83	372579	97.68	ug/l	99
42) Vinyl Acetate	5.856	43	3128930	462.39	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.897	43	304340	98.30	ug/l	97
44) Isopropyl Acetate	8.135	43	518616	89.96	ug/l	97
45) 1,4-Dioxane	9.174	88	76537	1765.31	ug/l	94
46) Methyl methacrylate	9.171	41	257042	93.64	ug/l	99
47) n-amyl Acetate	12.045	43	480211	99.26	ug/l	99
48) t-1,3-Dichloropropene	10.354	75	430871	101.27	ug/l	97
49) cis-1,3-Dichloropropene	9.810	75	459970	101.19	ug/l	98
50) 1,1,2-Trichloroethane	10.534	97	276317	106.80	ug/l	98
51) Ethyl methacrylate	10.402	69	411627	103.84	ug/l	96
52) 1,3-Dichloropropane	10.679	76	460307	106.71	ug/l	99
53) Dibromochloromethane	10.875	129	325804	107.43	ug/l	99
54) 1,2-Dibromoethane	10.978	107	300782	108.65	ug/l	99
55) 2-Chloroethyl vinyl ether	9.666	63	892340	453.06	ug/l	99
56) Bromoform	12.100	173	259795	110.80	ug/l	98
58) 4-Methyl-2-Pentanone	9.955	43	1566910	466.36	ug/l	98
59) 2-Hexanone	10.724	43	1155458	470.38	ug/l	97
61) Tetrachloroethene	10.601	164	351575	103.74	ug/l	98
62) Toluene	10.125	91	1211238	102.12	ug/l	100
64) Chlorobenzene	11.405	112	793994	107.50	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.482	131	301699	104.11	ug/l	98
66) Ethyl Benzene	11.482	91	1364852	103.67	ug/l	99
67) m/p-Xylenes	11.595	106	1076205	215.36	ug/l	97
68) o-Xylene	11.920	106	518029	107.20	ug/l	98
69) Styrene	11.936	104	886131	109.11	ug/l	99
70) Isopropylbenzene	12.222	105	1360329	105.85	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.479	83	379824	107.64	ug/l	99
72) 1,2,3-Trichloropropane	12.527	75	380618m	108.82	ug/l	
73) Bromobenzene	12.498	156	383584	112.41	ug/l	99
74) n-propylbenzene	12.566	91	1540712	105.60	ug/l	100
75) 2-Chlorotoluene	12.646	91	913888	105.31	ug/l	99
76) 1,3,5-Trimethylbenzene	12.707	105	1168879	106.45	ug/l	100
77) t-1,4-Dichloro-2-butene	12.273	75	142300	105.22	ug/l	95
78) 4-Chlorotoluene	12.746	91	950471	107.94	ug/l	99
79) tert-butylbenzene	12.968	119	1005914	107.63	ug/l	99
80) 1,2,4-Trimethylbenzene	13.013	105	1179335	108.34	ug/l	99
81) sec-Butylbenzene	13.145	105	1308596	106.49	ug/l	100
82) p-Isopropyltoluene	13.264	119	1247410	110.07	ug/l	99
83) 1,3-Dichlorobenzene	13.257	146	666765	117.91	ug/l	100
84) 1,4-Dichlorobenzene	13.338	146	659088	118.07	ug/l	99
85) n-Butylbenzene	13.588	91	1006638	105.72	ug/l	99
86) Hexachloroethane	13.849	117	212858	105.37	ug/l	99
87) 1,2-Dichlorobenzene	13.627	146	648747	118.11	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.241	75	76761	107.63	ug/l	96
89) 1,2,4-Trichlorobenzene	14.881	180	389143	135.61	ug/l	98
90) Hexachlorobutadiene	14.981	225	220413	113.75	ug/l	99
91) Naphthalene	15.103	128	994517	131.93	ug/l	100
92) 1,2,3-Trichlorobenzene	15.283	180	373185	136.62	ug/l	99

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

