

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030119\
 Data File : VN054021.D
 Acq On : 1 Mar 2019 11:23
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN030119

Manual Integrations
 APPROVED

MMDadoda
 3/6/2019 10:23:34 AM

Quant Time: Mar 04 15:01:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 01 11:11:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	118363	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	663116	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	569034	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	251304	30.23	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.77%
60) 4-Bromofluorobenzene	12.40	95	263276	30.23	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.77%
63) Toluene-d8	10.09	98	822408	30.04	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	138307	20.666	ug/l 100
3) Chloromethane	2.06	50	186188	20.915	ug/l 99
4) Vinyl Chloride	2.18	62	182261	20.446	ug/l 96
5) Bromomethane	2.57	94	120717	22.014	ug/l 100
6) Chloroethane	2.71	64	108668	20.705	ug/l 99
7) Trichlorofluoromethane	3.02	101	229160	21.158	ug/l 99
8) Diethyl Ether	3.41	74	85356	20.955	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	145078	20.835	ug/l 97
10) 1,1-Dichloroethene	3.74	96	134889	20.675	ug/l 97
11) Methyl Iodide	3.95	142	175841	18.170	ug/l 99
12) Methyl Acetate	4.33	43	117827	21.420	ug/l 95
13) Acrolein	3.61	56	41022	84.612	ug/l 100
14) Acrylonitrile	4.99	53	267306	101.121	ug/l 98
15) Acetone	3.82	58	80207	105.286	ug/l 98
16) Carbon Disulfide	4.06	76	441732	20.868	ug/l 99
17) Allyl chloride	4.32	41	248804	21.563	ug/l 99
18) Methylene Chloride	4.55	84	154215	20.470	ug/l 99
19) trans-1,2-Dichloroethene	5.04	96	147935	20.901	ug/l 98
20) Diisopropyl ether	5.95	45	476177	20.630	ug/l 96
21) 1,1-Dichloroethane	5.85	63	278547	20.434	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	161779	20.532	ug/l 96
23) tert-Butyl Alcohol	4.78	59	48320	102.055	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	376619	21.324	ug/l 100
25) Chloroform	7.37	83	271242	20.623	ug/l 100
26) Cyclohexane	7.65	56	260394	20.990	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	209283	20.149	ug/l 100
30) 2-Butanone	6.83	43	325541	99.264	ug/l 99
31) 2,2-Dichloropropane	6.82	77	211623	20.662	ug/l # 52
32) 1,1,1-Trichloroethane	7.57	97	225627	20.195	ug/l 98
33) Carbon Tetrachloride	7.77	117	200245	20.243	ug/l 99
34) Benzene	8.04	78	620121	20.089	ug/l 98
35) Methacrylonitrile	7.17	41	58551m	15.967	ug/l
36) 1,2-Dichloroethane	8.12	62	193621	19.533	ug/l 100
37) Trichloroethene	8.84	130	162582	20.176	ug/l 98
38) Methylcyclohexane	9.08	83	247505	20.189	ug/l 99
39) 1,2-Dichloropropane	9.12	63	168931	19.976	ug/l 99
40) Dibromomethane	9.21	93	95071	19.610	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	204439	19.875	ug/l	97
42) Vinyl Acetate	5.90	43	1715134	101.230	ug/l	100
43) Ethyl Acetate	6.93	43	143004	20.818	ug/l #	74
44) Isopropyl Acetate	8.16	43	237686m	19.719	ug/l	
45) 1,4-Dioxane	9.20	88	28146	400.271	ug/l	97
46) Methyl methacrylate	9.20	41	111141	19.196	ug/l	95
47) n-amyl Acetate	12.07	43	178259	20.132	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	202786	19.662	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	239630	19.786	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	134199	19.734	ug/l	98
51) Ethyl methacrylate	10.43	69	162484	19.848	ug/l	96
52) 1,3-Dichloropropane	10.71	76	232713	19.939	ug/l	100
53) Dibromochloromethane	10.90	129	149141	19.959	ug/l	100
54) 1,2-Dibromoethane	11.01	107	126329	19.501	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	377480	99.361	ug/l	100
56) Bromoform	12.13	173	97492	19.649	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	651614	101.625	ug/l	97
59) 2-Hexanone	10.75	43	419773	100.202	ug/l	99
61) Tetrachloroethene	10.63	164	162479	20.539	ug/l	95
62) Toluene	10.16	91	653396	20.546	ug/l	100
64) Chlorobenzene	11.43	112	388536	20.064	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	143390	20.166	ug/l	99
66) Ethyl Benzene	11.51	91	676098	20.339	ug/l	100
67) m/p-Xylenes	11.62	106	523942	41.864	ug/l	99
68) o-Xylene	11.95	106	251087	20.696	ug/l	99
69) Styrene	11.96	104	398514	20.744	ug/l	100
70) Isopropylbenzene	12.25	105	661073	20.761	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	157498	20.040	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	132374m	22.182	ug/l	
73) Bromobenzene	12.53	156	161595	20.129	ug/l	99
74) n-propylbenzene	12.59	91	791567	20.876	ug/l	100
75) 2-Chlorotoluene	12.67	91	458219	20.637	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	568425	21.074	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	40921	19.270	ug/l	100
78) 4-Chlorotoluene	12.77	91	465710	20.961	ug/l	98
79) tert-butylbenzene	12.99	119	496928	21.025	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	569494	21.214	ug/l	100
81) sec-Butylbenzene	13.17	105	685263	21.140	ug/l	99
82) p-Isopropyltoluene	13.29	119	591639	21.375	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	296563	20.943	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	281309	20.807	ug/l	99
85) n-Butylbenzene	13.61	91	508250	21.069	ug/l	99
86) Hexachloroethane	13.88	117	102737	19.853	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	288686	21.021	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	23495	20.662	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	150668	21.596	ug/l	99
90) Hexachlorobutadiene	15.01	225	114170	22.523	ug/l	98
91) Naphthalene	15.13	128	297751	22.605	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	150966	21.912	ug/l	98

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

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