

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030119\
 Data File : VN054027.D
 Acq On : 1 Mar 2019 14:10
 Operator : JC/SP
 Sample : VN0301WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0301WBS01

Manual Integrations
 APPROVED

MMDadoda
 3/6/2019 10:23:49 AM

Quant Time: Mar 02 00:05:13 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	7.19	128	114749	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	617896	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	534895	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	242562	30.10	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.33%
60) 4-Bromofluorobenzene	12.40	95	242609	29.63	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.77%
63) Toluene-d8	10.09	98	780482	30.33	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	125568	19.354 ug/l	97
3) Chloromethane	2.06	50	174351	20.202 ug/l	100
4) Vinyl Chloride	2.19	62	167654	19.400 ug/l	97
5) Bromomethane	2.57	94	105890	19.918 ug/l	98
6) Chloroethane	2.71	64	100666	19.784 ug/l	99
7) Trichlorofluoromethane	3.02	101	205584	19.579 ug/l	100
8) Diethyl Ether	3.41	74	75171	19.036 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	127957	18.955 ug/l	98
10) 1,1-Dichloroethene	3.74	96	122971	19.442 ug/l	99
11) Methyl Iodide	3.96	142	176366	18.798 ug/l	99
12) Methyl Acetate	4.32	43	105819	19.842 ug/l	98
13) Acrolein	3.61	56	56281	109.948 ug/l	99
14) Acrylonitrile	4.99	53	249896	97.512 ug/l	98
15) Acetone	3.82	58	62723	84.928 ug/l	92
16) Carbon Disulfide	4.06	76	392217	19.113 ug/l	100
17) Allyl chloride	4.33	41	209335	18.714 ug/l	98
18) Methylene Chloride	4.55	84	143832	19.693 ug/l	98
19) trans-1,2-Dichloroethene	5.05	96	132585	19.322 ug/l	96
20) Diisopropyl ether	5.95	45	439931	19.660 ug/l	96
21) 1,1-Dichloroethane	5.85	63	258303	19.546 ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	149169	19.527 ug/l	97
23) tert-Butyl Alcohol	4.78	59	46622	101.570 ug/l #	100
24) Methyl tert-Butyl Ether	5.04	73	336543	19.655 ug/l	98
25) Chloroform	7.37	83	251555	19.728 ug/l	97
26) Cyclohexane	7.65	56	232769	19.354 ug/l #	98
29) 1,1-Dichloropropene	7.79	75	191459	19.782 ug/l	99
30) 2-Butanone	6.84	43	284758	93.183 ug/l	99
31) 2,2-Dichloropropane	6.82	77	183673	19.246 ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	204598	19.653 ug/l	99
33) Carbon Tetrachloride	7.77	117	178830	19.401 ug/l	97
34) Benzene	8.04	78	580383	20.177 ug/l	99
35) Methacrylonitrile	7.18	41	70786	20.716 ug/l	88
36) 1,2-Dichloroethane	8.12	62	181690	19.671 ug/l	100
37) Trichloroethene	8.84	130	148248	19.744 ug/l	96
38) Methylcyclohexane	9.08	83	214683	18.793 ug/l	98
39) 1,2-Dichloropropane	9.12	63	156996	19.923 ug/l	99
40) Dibromomethane	9.21	93	90347	20.000 ug/l	100

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

41) Bromodichloromethane	9.40	83	190385	19.863	ug/l	98
42) Vinyl Acetate	5.90	43	1534447	97.194	ug/l	100
43) Ethyl Acetate	6.93	43	120088	18.761	ug/l #	69
44) Isopropyl Acetate	8.16	43	220433	19.626	ug/l	96
45) 1,4-Dioxane	9.20	88	27552	418.906	ug/l	98
46) Methyl methacrylate	9.20	41	100900	18.703	ug/l	97
47) n-amyl Acetate	12.07	43	150091	18.191	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	180095	18.740	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	213868	18.952	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	123698	19.521	ug/l	98
51) Ethyl methacrylate	10.43	69	143086	18.757	ug/l	97
52) 1,3-Dichloropropane	10.71	76	216735	19.929	ug/l	100
53) Dibromochloromethane	10.90	129	134358	19.296	ug/l	97
54) 1,2-Dibromoethane	11.01	107	116390	19.282	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	338978	95.757	ug/l	99
56) Bromoform	12.13	173	88425	19.126	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	593717	98.505	ug/l	97
59) 2-Hexanone	10.75	43	364945	92.674	ug/l	98
61) Tetrachloroethene	10.63	164	148605	19.984	ug/l	96
62) Toluene	10.16	91	595512	19.921	ug/l	99
64) Chlorobenzene	11.43	112	355582	19.534	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	130267	19.490	ug/l	99
66) Ethyl Benzene	11.51	91	609053	19.491	ug/l	100
67) m/p-Xylenes	11.62	106	472340	40.149	ug/l	99
68) o-Xylene	11.95	106	224733	19.706	ug/l	98
69) Styrene	11.96	104	355423	19.682	ug/l	99
70) Isopropylbenzene	12.25	105	601460	20.094	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	145308	19.669	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	121021m	21.574	ug/l	
73) Bromobenzene	12.53	156	145532	19.285	ug/l	99
74) n-propylbenzene	12.59	91	688777	19.325	ug/l	100
75) 2-Chlorotoluene	12.68	91	413111	19.793	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	499253	19.691	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	35452	17.760	ug/l	97
78) 4-Chlorotoluene	12.77	91	401842	19.240	ug/l	99
79) tert-butylbenzene	12.99	119	436588	19.651	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	498122	19.740	ug/l	99
81) sec-Butylbenzene	13.17	105	601456	19.739	ug/l	99
82) p-Isopropyltoluene	13.29	119	503713	19.360	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	250424	18.814	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	240303	18.909	ug/l	98
85) n-Butylbenzene	13.61	91	408425	18.011	ug/l	99
86) Hexachloroethane	13.88	117	90991	18.706	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	251542	19.486	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	20295	18.987	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	110039	16.779	ug/l	100
90) Hexachlorobutadiene	15.01	225	89075	18.694	ug/l	99
91) Naphthalene	15.13	128	214950	18.986	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	113953	17.595	ug/l	98

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

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