

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030419\
 Data File : VN054060.D
 Acq On : 4 Mar 2019 11:20
 Operator : JC/SP
 Sample : VN0304WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0304WBS01

Manual Integrations
 APPROVED

MMDadoda
 3/6/2019 10:29:41 AM

Quant Time: Mar 04 23:33:40 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	112374	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	601607	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	526022	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	238896	30.27	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.90%
60) 4-Bromofluorobenzene	12.40	95	239228	29.71	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.03%
63) Toluene-d8	10.09	98	767298	30.32	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.07%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	124972	19.669	ug/l 97
3) Chloromethane	2.06	50	178721	21.146	ug/l 98
4) Vinyl Chloride	2.19	62	174041	20.564	ug/l 98
5) Bromomethane	2.57	94	106286	20.415	ug/l 99
6) Chloroethane	2.71	64	101160	20.302	ug/l 100
7) Trichlorofluoromethane	3.02	101	210568	20.478	ug/l 100
8) Diethyl Ether	3.41	74	78353	20.261	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	132573	20.054	ug/l 98
10) 1,1-Dichloroethene	3.74	96	126580	20.436	ug/l 98
11) Methyl Iodide	3.96	142	166746	18.149	ug/l 98
12) Methyl Acetate	4.33	43	111758	21.399	ug/l 100
13) Acrolein	3.61	56	45166	94.357	ug/l 97
14) Acrylonitrile	4.99	53	260862	103.942	ug/l 97
15) Acetone	3.81	58	74970	103.656	ug/l 97
16) Carbon Disulfide	4.06	76	403112	20.059	ug/l 100
17) Allyl chloride	4.33	41	230369	21.030	ug/l 98
18) Methylene Chloride	4.55	84	151816	21.225	ug/l 99
19) trans-1,2-Dichloroethene	5.05	96	137930	20.526	ug/l 94
20) Diisopropyl ether	5.95	45	447191	20.407	ug/l 98
21) 1,1-Dichloroethane	5.85	63	268625	20.756	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	153715	20.548	ug/l 96
23) tert-Butyl Alcohol	4.78	59	46465	103.367	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	343951	20.512	ug/l 99
25) Chloroform	7.37	83	260112	20.831	ug/l 100
26) Cyclohexane	7.65	56	234375	19.899	ug/l # 96
29) 1,1-Dichloropropene	7.79	75	189891	20.151	ug/l 99
30) 2-Butanone	6.84	43	309387	103.984	ug/l 99
31) 2,2-Dichloropropane	6.83	77	193585	20.834	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	214366	21.149	ug/l 99
33) Carbon Tetrachloride	7.78	117	185884	20.713	ug/l 99
34) Benzene	8.04	78	592570	21.159	ug/l 99
35) Methacrylonitrile	7.17	41	67367	20.249	ug/l 93
36) 1,2-Dichloroethane	8.12	62	190917	21.229	ug/l 100
37) Trichloroethene	8.84	130	150665	20.609	ug/l 98
38) Methylcyclohexane	9.08	83	218198	19.618	ug/l 99
39) 1,2-Dichloropropane	9.12	63	161515	21.052	ug/l 99
40) Dibromomethane	9.21	93	93012	21.147	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	195659	20.966	ug/l	98
42) Vinyl Acetate	5.90	43	1574671	102.442	ug/l	100
43) Ethyl Acetate	6.84	43	309387	49.644	ug/l	100
44) Isopropyl Acetate	8.16	43	223451	20.433	ug/l	95
45) 1,4-Dioxane	9.20	88	28851	448.152	ug/l	98
46) Methyl methacrylate	9.20	41	103675	19.737	ug/l	97
47) n-amyl Acetate	12.07	43	161554	20.111	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	183248	19.584	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	221912	20.197	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	131168	21.260	ug/l	99
51) Ethyl methacrylate	10.43	69	146423	19.714	ug/l	99
52) 1,3-Dichloropropane	10.71	76	222697	21.031	ug/l	98
53) Dibromochloromethane	10.90	129	141094	20.812	ug/l	99
54) 1,2-Dibromoethane	11.00	107	123548	21.022	ug/l	96
55) 2-Chloroethyl vinyl ether	9.70	63	337853	98.023	ug/l	99
56) Bromoform	12.13	173	90503	20.105	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	630714	106.409	ug/l	96
59) 2-Hexanone	10.75	43	397448	102.631	ug/l	97
61) Tetrachloroethene	10.63	164	147663	20.193	ug/l	98
62) Toluene	10.16	91	616941	20.986	ug/l	100
64) Chlorobenzene	11.43	112	363869	20.327	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	137070	20.853	ug/l	99
66) Ethyl Benzene	11.51	91	622673	20.263	ug/l	99
67) m/p-Xylenes	11.62	106	485053	41.925	ug/l	100
68) o-Xylene	11.95	106	232591	20.739	ug/l	100
69) Styrene	11.96	104	369800	20.824	ug/l	100
70) Isopropylbenzene	12.25	105	615030	20.894	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	150238	20.679	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	128191m	23.238	ug/l	
73) Bromobenzene	12.53	156	151888	20.467	ug/l	100
74) n-propylbenzene	12.59	91	714534	20.385	ug/l	100
75) 2-Chlorotoluene	12.68	91	424716	20.692	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	514264	20.625	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	37997	19.356	ug/l	97
78) 4-Chlorotoluene	12.77	91	416879	20.297	ug/l	99
79) tert-butylbenzene	12.99	119	450293	20.610	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	516750	20.823	ug/l	99
81) sec-Butylbenzene	13.17	105	607645	20.278	ug/l	99
82) p-Isopropyltoluene	13.29	119	514822	20.121	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	262143	20.026	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	245879	19.674	ug/l	100
85) n-Butylbenzene	13.62	91	415851	18.648	ug/l	99
86) Hexachloroethane	13.87	117	94552	19.766	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	256772	20.226	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	22241	21.159	ug/l	93
89) 1,2,4-Trichlorobenzene	14.91	180	112268	17.407	ug/l	99
90) Hexachlorobutadiene	15.01	225	85398	18.225	ug/l	99
91) Naphthalene	15.13	128	223882	19.695	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	114832	18.030	ug/l	99

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

