

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041219\
 Data File : VN054994.D
 Acq On : 12 Apr 2019 12:36
 Operator : JC/SP
 Sample : VN0412WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0412WBS01

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 9:36:54 AM

Quant Time: Apr 12 23:27:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	73702	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	406526	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	349507	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	172588	30.72	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.40%
60) 4-Bromofluorobenzene	12.40	95	158746	29.18	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.27%
63) Toluene-d8	10.09	98	511530	30.78	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	84660	19.531	ug/l 100
3) Chloromethane	2.06	50	118477	20.233	ug/l 97
4) Vinyl Chloride	2.19	62	101606	20.066	ug/l 98
5) Bromomethane	2.56	94	60077	20.511	ug/l 98
6) Chloroethane	2.71	64	57502	20.276	ug/l 94
7) Trichlorofluoromethane	3.02	101	129696	20.044	ug/l 95
8) Diethyl Ether	3.41	74	42981	20.688	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	69997	19.789	ug/l 71
10) 1,1-Dichloroethene	3.73	96	63737	19.490	ug/l 95
11) Methyl Iodide	3.94	142	100965	20.401	ug/l 99
12) Methyl Acetate	4.33	43	93506	23.246	ug/l 96
13) Acrolein	3.61	56	34555	98.020	ug/l 96
14) Acrylonitrile	5.00	53	183567	111.390	ug/l 97
15) Acetone	3.82	58	38172	93.606	ug/l 94
16) Carbon Disulfide	4.04	76	207519	18.918	ug/l 98
17) Allyl chloride	4.31	41	161034	19.996	ug/l 97
18) Methylene Chloride	4.55	84	96857	20.037	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	85098	19.990	ug/l 99
20) Diisopropyl ether	5.96	45	332694	20.392	ug/l 98
21) 1,1-Dichloroethane	5.85	63	180060	20.663	ug/l 100
22) cis-1,2-Dichloroethene	6.82	96	99434	20.095	ug/l 99
23) tert-Butyl Alcohol	4.83	59	30613	116.501	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	236107	21.502	ug/l # 63
25) Chloroform	7.37	83	173221	20.752	ug/l 98
26) Cyclohexane	7.65	56	158722	19.631	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	125239	19.781	ug/l 98
30) 2-Butanone	6.85	43	224230	106.696	ug/l 100
31) 2,2-Dichloropropane	6.82	77	114472	19.645	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	137416	20.535	ug/l 98
33) Carbon Tetrachloride	7.77	117	113071	19.516	ug/l 97
34) Benzene	8.04	78	381236	20.320	ug/l 99
35) Methacrylonitrile	7.18	41	52984	21.390	ug/l 92
36) 1,2-Dichloroethane	8.12	62	131873	20.566	ug/l 100
37) Trichloroethene	8.84	130	95082	19.879	ug/l 96
38) Methylcyclohexane	9.08	83	140899	19.191	ug/l 100
39) 1,2-Dichloropropane	9.12	63	107318	20.715	ug/l 99
40) Dibromomethane	9.21	93	60413	20.631	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	121245	20.062	ug/l	98
42) Vinyl Acetate	5.90	43	1113313	104.786	ug/l	99
43) Ethyl Acetate	6.94	43	86542	20.213	ug/l	100
44) Isopropyl Acetate	8.17	43	157136	21.657	ug/l	98
45) 1,4-Dioxane	9.20	88	17714	440.682	ug/l	95
46) Methyl methacrylate	9.20	41	79527	21.188	ug/l	97
47) n-amyl Acetate	12.07	43	111213	20.811	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	106928	19.267	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	133839	19.535	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	84547	21.258	ug/l	99
51) Ethyl methacrylate	10.43	69	95955	20.239	ug/l	98
52) 1,3-Dichloropropane	10.71	76	146603	21.036	ug/l	100
53) Dibromochloromethane	10.90	129	81454	19.882	ug/l	100
54) 1,2-Dibromoethane	11.00	107	78389	20.994	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	191222	96.478	ug/l	100
56) Bromoform	12.13	173	49890	19.381	ug/l #	97
58) 4-Methyl-2-Pentanone	9.99	43	461779	114.570	ug/l	100
59) 2-Hexanone	10.75	43	283621	110.767	ug/l	99
61) Tetrachloroethene	10.63	164	92050	20.238	ug/l	95
62) Toluene	10.16	91	392253	20.369	ug/l	98
64) Chlorobenzene	11.43	112	236815	20.369	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	85052	20.569	ug/l	98
66) Ethyl Benzene	11.51	91	415754	20.140	ug/l	100
67) m/p-Xylenes	11.62	106	312499	40.725	ug/l	100
68) o-Xylene	11.95	106	153804	20.283	ug/l	99
69) Styrene	11.96	104	230301	19.558	ug/l	98
70) Isopropylbenzene	12.25	105	413508	20.395	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	103269	22.270	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	87971m	22.971	ug/l	
73) Bromobenzene	12.53	156	93948	19.605	ug/l	96
74) n-propylbenzene	12.59	91	447067	19.697	ug/l	100
75) 2-Chlorotoluene	12.67	91	277106	20.243	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	329798	20.120	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	19109	19.796	ug/l	98
78) 4-Chlorotoluene	12.77	91	252213	19.337	ug/l	99
79) tert-butylbenzene	12.99	119	284126	20.033	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	319312	19.830	ug/l	98
81) sec-Butylbenzene	13.17	105	380892	20.099	ug/l	99
82) p-Isopropyltoluene	13.29	119	309522	19.353	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	155558	19.403	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	141541	18.579	ug/l	98
85) n-Butylbenzene	13.61	91	225438	17.695	ug/l	99
86) Hexachloroethane	13.87	117	48091	18.783	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	159010	20.253	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	11969	19.420	ug/l	91
89) 1,2,4-Trichlorobenzene	14.91	180	55153	15.713	ug/l	91
90) Hexachlorobutadiene	15.01	225	47397	18.520	ug/l	98
91) Naphthalene	15.13	128	127571	17.357	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	62378	17.769	ug/l	98

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

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