

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\
 Data File : VN055142.D
 Acq On : 19 Apr 2019 15:13
 Operator : JC/SP
 Sample : VN0419WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0419WBSD01

Manual Integrations
 APPROVED

MMDadoda
 4/22/2019 10:06:49 AM

Quant Time: Apr 20 04:20:04 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	7.20	128	71121	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	373486	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	321798	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	165697	30.57	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.90%
60) 4-Bromofluorobenzene	12.40	95	142463	28.44	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.80%
63) Toluene-d8	10.09	98	471291	30.80	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	74365	17.778	ug/l 99
3) Chloromethane	2.06	50	103530	18.322	ug/l 95
4) Vinyl Chloride	2.19	62	85146	17.425	ug/l 99
5) Bromomethane	2.56	94	47575	16.832	ug/l 95
6) Chloroethane	2.70	64	47353	17.303	ug/l 98
7) Trichlorofluoromethane	3.02	101	130751	20.940	ug/l 94
8) Diethyl Ether	3.41	74	49833	24.857	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	3.76	101	77003	22.560	ug/l 97
10) 1,1-Dichloroethene	3.74	96	73341	23.241	ug/l 92
11) Methyl Iodide	3.95	142	109415	22.911	ug/l 96
12) Methyl Acetate	4.33	43	105044	27.062	ug/l 96
13) Acrolein	3.61	56	35119	103.235	ug/l 96
14) Acrylonitrile	4.99	53	192598	121.111	ug/l 98
15) Acetone	3.82	58	44261	112.477	ug/l 82
16) Carbon Disulfide	4.05	76	191143	18.058	ug/l 100
17) Allyl chloride	4.33	41	142911	18.390	ug/l 99
18) Methylene Chloride	4.55	84	90623	19.427	ug/l 96
19) trans-1,2-Dichloroethene	5.04	96	79021	19.236	ug/l 94
20) Diisopropyl ether	5.96	45	321780	20.439	ug/l 99
21) 1,1-Dichloroethane	5.85	63	168884	20.084	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	90593	18.973	ug/l 99
23) tert-Butyl Alcohol	4.79	59	39190m	154.554	ug/l
24) Methyl tert-Butyl Ether	5.05	73	233034	21.992	ug/l # 66
25) Chloroform	7.37	83	160944	19.981	ug/l 99
26) Cyclohexane	7.65	56	141508	18.137	ug/l # 98
29) 1,1-Dichloropropene	7.80	75	112754	19.385	ug/l 98
30) 2-Butanone	6.84	43	234888	121.655	ug/l 100
31) 2,2-Dichloropropane	6.82	77	97774	18.263	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	127459	20.732	ug/l 99
33) Carbon Tetrachloride	7.78	117	106147	19.942	ug/l 98
34) Benzene	8.04	78	354811	20.584	ug/l 98
35) Methacrylonitrile	7.18	41	64044m	28.143	ug/l
36) 1,2-Dichloroethane	8.13	62	124831	21.190	ug/l 99
37) Trichloroethene	8.83	130	86760	19.744	ug/l 93
38) Methylcyclohexane	9.08	83	115334	17.098	ug/l 99
39) 1,2-Dichloropropane	9.12	63	101750	21.378	ug/l 100
40) Dibromomethane	9.21	93	58588	21.778	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	114332	20.592	ug/l	99
42) Vinyl Acetate	5.90	43	1090615	111.731	ug/l	99
43) Ethyl Acetate	6.93	43	92926	23.625	ug/l	99
44) Isopropyl Acetate	8.17	43	170262	25.542	ug/l	93
45) 1,4-Dioxane	9.20	88	18644	504.849	ug/l	92
46) Methyl methacrylate	9.20	41	79921	23.177	ug/l	97
47) n-amyl Acetate	12.07	43	111869	22.785	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	102527	20.109	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	125109	19.877	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	78977	21.614	ug/l	99
51) Ethyl methacrylate	10.43	69	96491	22.153	ug/l	97
52) 1,3-Dichloropropane	10.71	76	141552	22.108	ug/l	100
53) Dibromochloromethane	10.90	129	79797	21.201	ug/l	100
54) 1,2-Dibromoethane	11.00	107	76249	22.228	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	189686	104.169	ug/l	100
56) Bromoform	12.13	173	49649	20.993	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	496495	133.790	ug/l	99
59) 2-Hexanone	10.75	43	311653	132.196	ug/l	100
61) Tetrachloroethene	10.63	164	82219	19.633	ug/l	97
62) Toluene	10.16	91	362596	20.450	ug/l	97
64) Chlorobenzene	11.43	112	211221	19.732	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	77717	20.414	ug/l	96
66) Ethyl Benzene	11.51	91	368315	19.378	ug/l	100
67) m/p-Xylenes	11.62	106	274038	38.788	ug/l	100
68) o-Xylene	11.95	106	139239	19.943	ug/l	97
69) Styrene	11.96	104	207191	19.111	ug/l	99
70) Isopropylbenzene	12.25	105	364490	19.526	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	105753	24.769	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	87119m	24.708	ug/l	
73) Bromobenzene	12.53	156	85485	19.375	ug/l	97
74) n-propylbenzene	12.59	91	384427	18.395	ug/l	100
75) 2-Chlorotoluene	12.67	91	242109	19.209	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	281727	18.668	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	19299	21.714	ug/l	94
78) 4-Chlorotoluene	12.77	91	218966	18.233	ug/l	100
79) tert-butylbenzene	12.99	119	247162	18.927	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	270648	18.255	ug/l	98
81) sec-Butylbenzene	13.17	105	311663	17.862	ug/l	98
82) p-Isopropyltoluene	13.29	119	255415	17.345	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	133478	18.083	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	122082	17.405	ug/l	98
85) n-Butylbenzene	13.61	91	170843	14.565	ug/l	99
86) Hexachloroethane	13.87	117	43069	18.270	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	136163	18.836	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	13803	24.325	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	41234	12.759	ug/l	93
90) Hexachlorobutadiene	15.01	225	38739	16.441	ug/l	99
91) Naphthalene	15.13	128	102114	15.090	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	48374	14.966	ug/l	98

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

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