

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090919\
 Data File : VN057794.D
 Acq On : 9 Sep 2019 12:08
 Operator : JC/SP
 Sample : VN0909WBS01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0909WBS01

Manual Integrations
 APPROVED

MMDadoda
 9/13/2019 11:05:00 AM

Quant Time: Sep 09 12:39:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N090919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Sep 09 12:14:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	70144	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	421794	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	369263	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	184393	29.72	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.07%
60) 4-Bromofluorobenzene	12.40	95	184908	29.26	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.53%
63) Toluene-d8	10.08	98	543320	30.65	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.17%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.83	85	85050	20.068	ug/l 99
3) Chloromethane	2.03	50	108735	20.576	ug/l 97
4) Vinyl Chloride	2.16	62	111606	20.642	ug/l 97
5) Bromomethane	2.54	94	69519	20.603	ug/l 91
6) Chloroethane	2.68	64	70888	21.097	ug/l 98
7) Trichlorofluoromethane	2.99	101	128474	20.568	ug/l 98
8) Diethyl Ether	3.39	74	52140	20.691	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	3.74	101	81356	20.858	ug/l 99
10) 1,1-Dichloroethene	3.72	96	75134	20.257	ug/l 93
11) Methyl Iodide	3.93	142	95820	19.309	ug/l 98
12) Methyl Acetate	4.31	43	100048	19.656	ug/l 93
13) Acrolein	3.59	56	23584	85.397	ug/l 100
14) Acrylonitrile	4.96	53	208391	100.430	ug/l # 91
15) Acetone	3.80	58	59052	100.244	ug/l 93
16) Carbon Disulfide	4.03	76	163170	18.892	ug/l 98
17) Allyl chloride	4.30	41	133186	19.597	ug/l 93
18) Methylene Chloride	4.53	84	93487	20.002	ug/l 96
19) trans-1,2-Dichloroethene	5.02	96	83637	20.232	ug/l 90
20) Diisopropyl ether	5.93	45	317603	19.989	ug/l 98
21) 1,1-Dichloroethane	5.83	63	174163	19.879	ug/l 98
22) cis-1,2-Dichloroethene	6.81	96	103566	20.447	ug/l 97
23) tert-Butyl Alcohol	4.77	59	69324	102.339	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	282985	19.906	ug/l # 100
25) Chloroform	7.36	83	176939	19.838	ug/l 99
26) Cyclohexane	7.64	56	142612	19.374	ug/l # 100
29) 1,1-Dichloropropene	7.78	75	129284	19.484	ug/l 99
30) 2-Butanone	6.82	43	300090	100.302	ug/l 100
31) 2,2-Dichloropropane	6.81	77	132038	18.848	ug/l 98
32) 1,1,1-Trichloroethane	7.55	97	140738	18.865	ug/l 98
33) Carbon Tetrachloride	7.76	117	115930	19.049	ug/l 98
34) Benzene	8.03	78	387277	19.698	ug/l 99
35) Methacrylonitrile	7.16	41	52765	19.014	ug/l 96
36) 1,2-Dichloroethane	8.11	62	148220	19.427	ug/l 99
37) Trichloroethene	8.83	130	92962	19.467	ug/l 98
38) Methylcyclohexane	9.07	83	142195	18.820	ug/l 98
39) 1,2-Dichloropropane	9.11	63	107562	19.481	ug/l 98
40) Dibromomethane	9.20	93	65972	19.645	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	128503	18.980	ug/l	94
42) Vinyl Acetate	5.87	43	1259919	104.778	ug/l	99
43) Ethyl Acetate	6.91	43	115323	18.893	ug/l #	82
44) Isopropyl Acetate	8.15	43	204243	19.191	ug/l #	92
45) 1,4-Dioxane	9.19	88	33113	395.942	ug/l	97
46) Methyl methacrylate	9.19	41	101654	19.553	ug/l	95
47) n-amyl Acetate	12.07	43	179098	18.319	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	129974	18.032	ug/l	100
49) cis-1,3-Dichloropropene	9.83	75	146935	18.169	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	93602	19.215	ug/l	98
51) Ethyl methacrylate	10.43	69	143834	19.043	ug/l	100
52) 1,3-Dichloropropane	10.71	76	164980	19.367	ug/l	99
53) Dibromochloromethane	10.90	129	83644	17.387	ug/l	99
54) 1,2-Dibromoethane	11.00	107	92636	19.113	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	353278	98.434	ug/l	99
56) Bromoform	12.13	173	50175	16.836	ug/l	97
58) 4-Methyl-2-Pentanone	9.98	43	628818	109.809	ug/l	99
59) 2-Hexanone	10.75	43	452996	105.415	ug/l	99
61) Tetrachloroethene	10.63	164	75790	20.187	ug/l	97
62) Toluene	10.15	91	418795	20.482	ug/l	98
64) Chlorobenzene	11.43	112	253299	19.970	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	85851	19.494	ug/l	99
66) Ethyl Benzene	11.51	91	468835	21.010	ug/l	98
67) m/p-Xylenes	11.62	106	340774	40.010	ug/l	100
68) o-Xylene	11.95	106	166270	19.927	ug/l	97
69) Styrene	11.96	104	280364	19.707	ug/l	99
70) Isopropylbenzene	12.25	105	456645	20.701	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.51	83	139608	20.250	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	120744m	19.733	ug/l	
73) Bromobenzene	12.53	156	104135	19.718	ug/l	96
74) n-propylbenzene	12.59	91	531280	21.080	ug/l	100
75) 2-Chlorotoluene	12.68	91	313973	20.001	ug/l	100
76) 1,3,5-Trimethylbenzene	12.74	105	380748	20.270	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	30105	16.584	ug/l	99
78) 4-Chlorotoluene	12.78	91	316372	19.758	ug/l	99
79) tert-butylbenzene	13.00	119	327176	19.965	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	376442	20.113	ug/l	98
81) sec-Butylbenzene	13.17	105	442710	20.361	ug/l	100
82) p-Isopropyltoluene	13.29	119	393165	20.192	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	189188	19.273	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	183237	18.960	ug/l	97
85) n-Butylbenzene	13.62	91	356573	19.649	ug/l	98
86) Hexachloroethane	13.88	117	54028	17.420	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	188206	19.751	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.28	75	22751	18.743	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	110784	19.032	ug/l	97
90) Hexachlorobutadiene	15.01	225	52427	19.612	ug/l	98
91) Naphthalene	15.13	128	315204	19.681	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	105566	19.017	ug/l	99

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

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