

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090319\
 Data File : VN057671.D
 Acq On : 3 Sep 2019 18:57
 Operator : JC/SP
 Sample : VN0903WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0903WBS01

Manual Integrations
 APPROVED

MMDadoda
 9/5/2019 3:21:30 PM

Quant Time: Sep 04 03:12:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 04 02:08:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	58837	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	356053	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	305006	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	192113	30.72	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.40%
60) 4-Bromofluorobenzene	12.40	95	149743	28.74	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.80%
63) Toluene-d8	10.08	98	449822	30.63	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	86470	20.399	ug/l 97
3) Chloromethane	2.05	50	92675	20.732	ug/l 97
4) Vinyl Chloride	2.18	62	75367	20.617	ug/l 99
5) Bromomethane	2.53	94	48119m	20.590	ug/l
6) Chloroethane	2.69	64	54606	20.456	ug/l 95
7) Trichlorofluoromethane	3.01	101	143541	20.502	ug/l 97
8) Diethyl Ether	3.40	74	48344	20.993	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	72895	20.035	ug/l 98
10) 1,1-Dichloroethene	3.73	96	67093	20.213	ug/l 99
11) Methyl Iodide	3.94	142	91560	19.919	ug/l 98
12) Methyl Acetate	4.31	43	104431	21.072	ug/l 96
13) Acrolein	3.59	56	26511	94.278	ug/l 98
14) Acrylonitrile	4.97	53	182208	101.019	ug/l 99
15) Acetone	3.80	58	45717	90.362	ug/l 96
16) Carbon Disulfide	4.05	76	159456	19.123	ug/l 98
17) Allyl chloride	4.31	41	146001	20.595	ug/l 99
18) Methylene Chloride	4.54	84	86313	20.751	ug/l 94
19) trans-1,2-Dichloroethene	5.03	96	72184	20.558	ug/l 99
20) Diisopropyl ether	5.93	45	315920	20.681	ug/l 96
21) 1,1-Dichloroethane	5.84	63	162785	20.674	ug/l 98
22) cis-1,2-Dichloroethene	6.82	96	90738	21.158	ug/l 99
23) tert-Butyl Alcohol	4.75	59	68585	104.575	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	273839	20.762	ug/l 100
25) Chloroform	7.36	83	165778	20.311	ug/l 97
26) Cyclohexane	7.64	56	135358	20.188	ug/l # 97
29) 1,1-Dichloropropene	7.78	75	111702	19.646	ug/l 95
30) 2-Butanone	6.81	43	272506	101.460	ug/l # 98
31) 2,2-Dichloropropane	6.81	77	132233	18.791	ug/l # 76
32) 1,1,1-Trichloroethane	7.56	97	144299	20.500	ug/l 98
33) Carbon Tetrachloride	7.76	117	111350	19.479	ug/l 95
34) Benzene	8.03	78	338530	20.728	ug/l 97
35) Methacrylonitrile	7.16	41	41715m	16.954	ug/l
36) 1,2-Dichloroethane	8.11	62	153318	21.065	ug/l # 100
37) Trichloroethene	8.83	130	79372	20.467	ug/l 96
38) Methylcyclohexane	9.07	83	124514	19.736	ug/l 100
39) 1,2-Dichloropropane	9.11	63	93856	21.016	ug/l 93
40) Dibromomethane	9.20	93	60998	21.070	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	124312	19.867	ug/l	97
42) Vinyl Acetate	5.88	43	1273466	107.874	ug/l	100
43) Ethyl Acetate	6.91	43	114592	20.719	ug/l #	83
44) Isopropyl Acetate	8.15	43	209537	20.265	ug/l	99
45) 1,4-Dioxane	9.19	88	26903	405.313	ug/l	97
46) Methyl methacrylate	9.19	41	103266	20.582	ug/l	100
47) n-amyl Acetate	12.07	43	152518	19.020	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	122695	18.693	ug/l	96
49) cis-1,3-Dichloropropene	9.83	75	136357	19.472	ug/l	94
50) 1,1,2-Trichloroethane	10.56	97	80150	20.528	ug/l	99
51) Ethyl methacrylate	10.43	69	123225	19.360	ug/l	100
52) 1,3-Dichloropropane	10.70	76	139457	20.067	ug/l	99
53) Dibromochloromethane	10.90	129	77492	19.016	ug/l	97
54) 1,2-Dibromoethane	11.00	107	79312	20.320	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	189455	94.205	ug/l	99
56) Bromoform	12.13	173	43099	17.055	ug/l #	97
58) 4-Methyl-2-Pentanone	9.98	43	594796	110.347	ug/l	99
59) 2-Hexanone	10.75	43	389881	102.214	ug/l	99
61) Tetrachloroethene	10.63	164	72662	20.747	ug/l	96
62) Toluene	10.15	91	362994	21.197	ug/l	98
64) Chlorobenzene	11.43	112	201875	20.076	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.51	131	76889	20.872	ug/l	95
66) Ethyl Benzene	11.51	91	394066	20.586	ug/l	99
67) m/p-Xylenes	11.62	106	271124	40.385	ug/l	100
68) o-Xylene	11.95	106	135258	20.234	ug/l	97
69) Styrene	11.96	104	209708	19.572	ug/l	98
70) Isopropylbenzene	12.25	105	379282	20.685	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	96928	20.091	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	92342m	20.352	ug/l	
73) Bromobenzene	12.53	156	73699	18.967	ug/l	99
74) n-propylbenzene	12.59	91	403703	19.889	ug/l	99
75) 2-Chlorotoluene	12.68	91	245562	19.325	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	306582	20.141	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	23220	16.765	ug/l	91
78) 4-Chlorotoluene	12.78	91	222163	18.401	ug/l	100
79) tert-butylbenzene	12.99	119	258822	19.798	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	294727	20.607	ug/l	100
81) sec-Butylbenzene	13.17	105	330491	19.617	ug/l	99
82) p-Isopropyltoluene	13.29	119	277771	19.412	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	103771	17.833	ug/l	98
84) 1,4-Dichlorobenzene	13.37	146	94837	17.263	ug/l	98
85) n-Butylbenzene	13.62	91	242015	19.242	ug/l	98
86) Hexachloroethane	13.88	117	47874	18.489	ug/l	95
87) 1,2-Dichlorobenzene	13.66	146	96202	17.918	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	11943	16.886	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	20611	11.080	ug/l	98
90) Hexachlorobutadiene	15.01	225	40403	19.582	ug/l	99
91) Naphthalene	15.13	128	52781	10.925	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	20756	11.483	ug/l	96

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

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