

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090519\
 Data File : VN057697.D
 Acq On : 5 Sep 2019 11:47
 Operator : JC/SP
 Sample : VN0905WBS01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0905WBS01

Manual Integrations
 APPROVED

MMDadoda
 9/6/2019 8:26:16 AM

Quant Time: Sep 06 01:40:04 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	59800	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	365238	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	306520	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	191024	30.05	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.17%
60) 4-Bromofluorobenzene	12.40	95	148924	28.44	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.80%
63) Toluene-d8	10.09	98	457504	31.00	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	93153	21.622	ug/l 100
3) Chloromethane	2.05	50	92545	20.369	ug/l 94
4) Vinyl Chloride	2.18	62	78338	21.085	ug/l 95
5) Bromomethane	2.54	94	49234m	20.728	ug/l
6) Chloroethane	2.69	64	56546	20.842	ug/l 98
7) Trichlorofluoromethane	3.01	101	149777	21.048	ug/l 96
8) Diethyl Ether	3.40	74	49483	21.141	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.75	101	76171	20.598	ug/l 98
10) 1,1-Dichloroethene	3.73	96	71104	21.076	ug/l 98
11) Methyl Iodide	3.94	142	90162	19.299	ug/l 99
12) Methyl Acetate	4.31	43	101202	20.092	ug/l 97
13) Acrolein	3.59	56	22760	79.636	ug/l 93
14) Acrylonitrile	4.97	53	182610	99.612	ug/l 99
15) Acetone	3.80	58	51800	100.736	ug/l 98
16) Carbon Disulfide	4.04	76	163366	19.276	ug/l 100
17) Allyl chloride	4.31	41	153284	21.274	ug/l 98
18) Methylene Chloride	4.54	84	87032	20.587	ug/l 94
19) trans-1,2-Dichloroethene	5.03	96	72515	20.320	ug/l 95
20) Diisopropyl ether	5.93	45	324353	20.891	ug/l 98
21) 1,1-Dichloroethane	5.84	63	164280	20.528	ug/l 99
22) cis-1,2-Dichloroethene	6.82	96	90717	20.812	ug/l 98
23) tert-Butyl Alcohol	4.75	59	60307m	90.472	ug/l
24) Methyl tert-Butyl Ether	5.02	73	269994	20.141	ug/l # 76
25) Chloroform	7.36	83	171078	20.623	ug/l 97
26) Cyclohexane	7.64	56	138836	20.374	ug/l # 99
29) 1,1-Dichloropropene	7.78	75	114519	19.635	ug/l 97
30) 2-Butanone	6.82	43	277014	100.544	ug/l # 98
31) 2,2-Dichloropropane	6.81	77	147614	20.450	ug/l # 77
32) 1,1,1-Trichloroethane	7.56	97	149117	20.652	ug/l 98
33) Carbon Tetrachloride	7.76	117	117502	20.039	ug/l 96
34) Benzene	8.03	78	336177	20.066	ug/l 96
35) Methacrylonitrile	7.16	41	58246	23.078	ug/l 97
36) 1,2-Dichloroethane	8.11	62	149475	20.021	ug/l # 100
37) Trichloroethene	8.83	130	77186	19.403	ug/l 96
38) Methylcyclohexane	9.07	83	134484	20.780	ug/l 97
39) 1,2-Dichloropropane	9.11	63	92778	20.252	ug/l 96
40) Dibromomethane	9.20	93	60695	20.438	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	125217	19.508	ug/l #	89
42) Vinyl Acetate	5.88	43	1294869	106.929	ug/l	100
43) Ethyl Acetate	6.91	43	109889	19.369	ug/l #	78
44) Isopropyl Acetate	8.15	43	210595	19.855	ug/l	99
45) 1,4-Dioxane	9.19	88	22469	329.998	ug/l #	91
46) Methyl methacrylate	9.19	41	101558	19.733	ug/l	96
47) n-amyl Acetate	12.07	43	150502	18.296	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	130478	19.379	ug/l	99
49) cis-1,3-Dichloropropene	9.83	75	139617	19.436	ug/l	95
50) 1,1,2-Trichloroethane	10.56	97	82239	20.533	ug/l	97
51) Ethyl methacrylate	10.43	69	124546	19.075	ug/l	98
52) 1,3-Dichloropropane	10.71	76	146357	20.530	ug/l	98
53) Dibromochloromethane	10.90	129	80936	19.362	ug/l	100
54) 1,2-Dibromoethane	11.00	107	80962	20.221	ug/l	97
55) 2-Chloroethyl vinyl ether	9.69	63	172680	83.705	ug/l	99
56) Bromoform	12.13	173	45795	17.666	ug/l #	96
58) 4-Methyl-2-Pentanone	9.98	43	596947	110.199	ug/l	99
59) 2-Hexanone	10.75	43	391241	102.064	ug/l	99
61) Tetrachloroethene	10.63	164	74575	21.188	ug/l	98
62) Toluene	10.15	91	365852	21.258	ug/l	99
64) Chlorobenzene	11.43	112	209032	20.685	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	76818	20.750	ug/l	98
66) Ethyl Benzene	11.51	91	409853	21.305	ug/l	100
67) m/p-Xylenes	11.62	106	276796	41.026	ug/l	97
68) o-Xylene	11.95	106	135712	20.201	ug/l	97
69) Styrene	11.96	104	207629	19.282	ug/l	99
70) Isopropylbenzene	12.25	105	387052	21.005	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	99214	20.464	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	91374m	20.040	ug/l	
73) Bromobenzene	12.53	156	73789	18.897	ug/l	99
74) n-propylbenzene	12.59	91	409089	20.055	ug/l	99
75) 2-Chlorotoluene	12.67	91	254229	19.908	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	317604	20.762	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	23964	17.217	ug/l	95
78) 4-Chlorotoluene	12.78	91	223554	18.425	ug/l	98
79) tert-butylbenzene	12.99	119	262744	19.999	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	301556	20.980	ug/l	99
81) sec-Butylbenzene	13.17	105	333912	19.722	ug/l	99
82) p-Isopropyltoluene	13.29	119	282179	19.623	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	103644	17.723	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	97353	17.634	ug/l	98
85) n-Butylbenzene	13.62	91	247174	19.555	ug/l	98
86) Hexachloroethane	13.88	117	51750	19.887	ug/l	95
87) 1,2-Dichlorobenzene	13.66	146	97422	18.056	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	11576	16.287	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	20329	10.874	ug/l	96
90) Hexachlorobutadiene	15.01	225	38479	18.557	ug/l	96
91) Naphthalene	15.13	128	51141	10.533	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	18962	10.439	ug/l	96

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

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