

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082319\
 Data File : VN057472.D
 Acq On : 23 Aug 2019 14:15
 Operator : JC/SP
 Sample : VN0823WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0823WBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 1:12:24 PM

Quant Time: Aug 24 00:01:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 23:15:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	67656	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	391267	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	329472	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	197026	30.21	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.70%
60) 4-Bromofluorobenzene	12.40	95	152864	28.14	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.80%
63) Toluene-d8	10.08	98	509695	30.63	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	72958	20.613	ug/l 93
3) Chloromethane	2.05	50	103244	19.425	ug/l 99
4) Vinyl Chloride	2.17	62	128608	19.047	ug/l 99
5) Bromomethane	2.55	94	84077	19.248	ug/l 96
6) Chloroethane	2.69	64	82723	18.290	ug/l 97
7) Trichlorofluoromethane	3.00	101	204856	19.075	ug/l 92
8) Diethyl Ether	3.39	74	77025	18.669	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	114173	18.875	ug/l 99
10) 1,1-Dichloroethene	3.71	96	110153	18.863	ug/l 98
11) Methyl Iodide	3.92	142	81091	15.448	ug/l 97
12) Methyl Acetate	4.30	43	112713	19.160	ug/l 100
13) Acrolein	3.58	56	70161	93.779	ug/l 95
14) Acrylonitrile	4.97	53	192135	94.015	ug/l 99
15) Acetone	3.80	58	73361	76.735	ug/l 93
16) Carbon Disulfide	4.02	76	191567	18.417	ug/l 97
17) Allyl chloride	4.29	41	142961	17.945	ug/l 99
18) Methylene Chloride	4.53	84	78652	18.365	ug/l 94
19) trans-1,2-Dichloroethene	5.01	96	70937	17.590	ug/l 98
20) Diisopropyl ether	5.93	45	314567	18.495	ug/l 99
21) 1,1-Dichloroethane	5.82	63	164273	18.587	ug/l 98
22) cis-1,2-Dichloroethene	6.81	96	87356	17.809	ug/l 97
23) tert-Butyl Alcohol	4.79	59	65555	88.306	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	254631	18.873	ug/l 99
25) Chloroform	7.36	83	162383	18.506	ug/l 95
26) Cyclohexane	7.63	56	140644	17.871	ug/l # 100
29) 1,1-Dichloropropene	7.77	75	118070	17.756	ug/l 96
30) 2-Butanone	6.82	43	274918	85.991	ug/l 98
31) 2,2-Dichloropropane	6.80	77	134218	17.666	ug/l 98
32) 1,1,1-Trichloroethane	7.55	97	136922	18.012	ug/l 99
33) Carbon Tetrachloride	7.75	117	112453	17.815	ug/l 92
34) Benzene	8.03	78	347249	17.758	ug/l 98
35) Methacrylonitrile	7.16	41	59083	18.260	ug/l 92
36) 1,2-Dichloroethane	8.11	62	143042	18.660	ug/l # 89
37) Trichloroethene	8.82	130	78538	17.604	ug/l 94
38) Methylcyclohexane	9.07	83	130417	17.473	ug/l 98
39) 1,2-Dichloropropane	9.11	63	102440	18.424	ug/l 96
40) Dibromomethane	9.20	93	62153	18.291	ug/l 97

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

41) Bromodichloromethane	9.39	83	125662	17.436	ug/l #	94
42) Vinyl Acetate	5.87	43	1275631	89.160	ug/l	100
43) Ethyl Acetate	6.91	43	113893	18.302	ug/l	98
44) Isopropyl Acetate	8.16	43	216916	18.260	ug/l #	93
45) 1,4-Dioxane	9.20	88	23278	325.999	ug/l	97
46) Methyl methacrylate	9.19	41	102972	18.252	ug/l	97
47) n-amyl Acetate	12.07	43	172119	18.002	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	130614	17.156	ug/l	99
49) cis-1,3-Dichloropropene	9.83	75	144526	17.271	ug/l	94
50) 1,1,2-Trichloroethane	10.56	97	79205	17.776	ug/l	95
51) Ethyl methacrylate	10.43	69	133222	17.986	ug/l	96
52) 1,3-Dichloropropane	10.70	76	148763	18.312	ug/l	99
53) Dibromochloromethane	10.90	129	82208	17.306	ug/l	99
54) 1,2-Dibromoethane	11.00	107	79778	17.498	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	334899	183.421	ug/l	99
56) Bromoform	12.13	173	48238	17.015	ug/l #	94
58) 4-Methyl-2-Pentanone	9.98	43	617113	95.477	ug/l	99
59) 2-Hexanone	10.75	43	418150	93.336	ug/l	100
61) Tetrachloroethene	10.63	164	72792	19.265	ug/l	96
62) Toluene	10.15	91	363659	18.060	ug/l	99
64) Chlorobenzene	11.43	112	199472	18.221	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	76211	18.319	ug/l	98
66) Ethyl Benzene	11.51	91	384960	17.863	ug/l	99
67) m/p-Xylenes	11.62	106	260728	34.881	ug/l	96
68) o-Xylene	11.95	106	133501	18.073	ug/l	99
69) Styrene	11.96	104	203340	17.232	ug/l	99
70) Isopropylbenzene	12.25	105	354737	17.952	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	105199	18.409	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	101147m	19.498	ug/l	
73) Bromobenzene	12.53	156	70764	17.692	ug/l	99
74) n-propylbenzene	12.59	91	380781	16.899	ug/l	100
75) 2-Chlorotoluene	12.68	91	232737	17.538	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	285551	17.608	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	31964	17.182	ug/l	95
78) 4-Chlorotoluene	12.77	91	213329	17.013	ug/l	99
79) tert-butylbenzene	12.99	119	243020	17.611	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	269923	17.853	ug/l	99
81) sec-Butylbenzene	13.17	105	316356	17.397	ug/l	99
82) p-Isopropyltoluene	13.29	119	259568	16.978	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	105879	17.004	ug/l	97
84) 1,4-Dichlorobenzene	13.37	146	101056	16.683	ug/l	99
85) n-Butylbenzene	13.62	91	226231	16.974	ug/l	99
86) Hexachloroethane	13.88	117	52846	17.132	ug/l	94
87) 1,2-Dichlorobenzene	13.66	146	103338	16.899	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	16473	17.177	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	28457	12.420	ug/l	99
90) Hexachlorobutadiene	15.01	225	33714	19.138	ug/l	97
91) Naphthalene	15.13	128	94970	18.337	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	30831	13.455	ug/l	95

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

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