

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081019\
 Data File : VN057166.D
 Acq On : 10 Aug 2019 10:38
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 8/12/2019 3:55:29 PM

Quant Time: Aug 11 03:44:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sun Aug 11 03:32:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.58	128	169718	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.01	114	932978	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.90	117	829243	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.44	65	327531	29.61	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.70%
60) 4-Bromofluorobenzene	11.92	95	378132	30.62	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.07%
63) Toluene-d8	9.56	98	1139479	29.77	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.82	85	456016	49.260	ug/l 99
3) Chloromethane	2.00	50	520483	48.537	ug/l 99
4) Vinyl Chloride	2.11	62	521904	47.841	ug/l 98
5) Bromomethane	2.43	94	366651	47.181	ug/l 99
6) Chloroethane	2.55	64	332241	46.965	ug/l 99
7) Trichlorofluoromethane	2.82	101	762390	46.869	ug/l 99
8) Diethyl Ether	3.14	74	281504	46.433	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.44	101	457344	46.480	ug/l 99
10) 1,1-Dichloroethene	3.43	96	457069	46.982	ug/l 98
11) Methyl Iodide	3.63	142	739556	48.719	ug/l 98
12) Methyl Acetate	3.89	43	462010	45.589	ug/l 100
13) Acrolein	3.31	56	282464	252.737	ug/l 98
14) Acrylonitrile	4.45	53	1011599	239.256	ug/l 100
15) Acetone	3.47	58	351293	250.346	ug/l 94
16) Carbon Disulfide	3.72	76	1244675	47.424	ug/l 99
17) Allyl chloride	3.91	41	654937	45.665	ug/l 98
18) Methylene Chloride	4.10	84	519092	47.065	ug/l 99
19) trans-1,2-Dichloroethene	4.51	96	482319	46.245	ug/l 97
20) Diisopropyl ether	5.31	45	1369353	46.815	ug/l 96
21) 1,1-Dichloroethane	5.25	63	841810	46.208	ug/l 99
22) cis-1,2-Dichloroethene	6.21	96	552799	46.568	ug/l 98
23) tert-Butyl Alcohol	4.24	59	330891	237.162	ug/l # 100
24) Methyl tert-Butyl Ether	4.49	73	1353221	47.302	ug/l 99
25) Chloroform	6.76	83	863386	46.091	ug/l 99
26) Cyclohexane	7.07	56	736682	47.303	ug/l # 99
29) 1,1-Dichloropropene	7.20	75	661178	47.124	ug/l 99
30) 2-Butanone	6.20	43	1346236	243.717	ug/l 100
31) 2,2-Dichloropropane	6.21	77	708807	47.251	ug/l 99
32) 1,1,1-Trichloroethane	6.98	97	758093	46.657	ug/l 99
33) Carbon Tetrachloride	7.18	117	678833	46.933	ug/l 97
34) Benzene	7.46	78	1994805	46.577	ug/l 97
35) Methacrylonitrile	6.54	41	269246	48.228	ug/l 92
36) 1,2-Dichloroethane	7.54	62	639096	46.711	ug/l 99
37) Trichloroethene	8.27	130	568089	46.678	ug/l 100
38) Methylcyclohexane	8.52	83	790118	47.192	ug/l 100
39) 1,2-Dichloropropane	8.56	63	513078	27.074	ug/l 95
40) Dibromomethane	8.65	93	332937	46.847	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	8.85	83	668739	47.322	ug/l	98
42) Vinyl Acetate	5.26	43	5501955	239.595	ug/l	100
43) Ethyl Acetate	6.28	43	501522	49.229	ug/l	99
44) Isopropyl Acetate	7.56	43	855759	46.264	ug/l	97
45) 1,4-Dioxane	8.64	88	168029	973.435	ug/l	98
46) Methyl methacrylate	8.63	41	406729	48.227	ug/l	96
47) n-amyl Acetate	11.58	43	683569	50.231	ug/l	100
48) t-1,3-Dichloropropene	9.86	75	710175	47.129	ug/l	98
49) cis-1,3-Dichloropropene	9.30	75	821316	53.050	ug/l	99
50) 1,1,2-Trichloroethane	10.04	97	477031	46.963	ug/l	98
51) Ethyl methacrylate	9.90	69	700006	48.834	ug/l	98
52) 1,3-Dichloropropane	10.19	76	792577	46.812	ug/l	100
53) Dibromochloromethane	10.39	129	547710	47.853	ug/l	99
54) 1,2-Dibromoethane	10.50	107	504296	47.561	ug/l	98
55) 2-Chloroethyl vinyl ether	9.15	63	1010248	249.605	ug/l	100
56) Bromoform	11.64	173	408151	48.257	ug/l	100
58) 4-Methyl-2-Pentanone	9.45	43	2541888	238.612	ug/l	99
59) 2-Hexanone	10.24	43	1877864	245.191	ug/l	99
61) Tetrachloroethene	10.11	164	568673	44.681	ug/l	98
62) Toluene	9.63	91	2190638	46.411	ug/l	100
64) Chlorobenzene	10.93	112	1372570	47.280	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.01	131	521152	46.812	ug/l	98
66) Ethyl Benzene	11.01	91	2401270	47.459	ug/l	99
67) m/p-Xylenes	11.12	106	1836537	96.252	ug/l	100
68) o-Xylene	11.46	106	887566	47.913	ug/l	98
69) Styrene	11.47	104	1458521	49.101	ug/l	100
70) Isopropylbenzene	11.76	105	2391765	47.956	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.02	83	647043	47.369	ug/l	100
72) 1,2,3-Trichloropropane	12.07	75	566878m	46.805	ug/l	
73) Bromobenzene	12.04	156	631965	48.867	ug/l	96
74) n-propylbenzene	12.11	91	2597623	49.614	ug/l	100
75) 2-Chlorotoluene	12.20	91	1576313	48.676	ug/l	98
76) 1,3,5-Trimethylbenzene	12.26	105	2018248	50.060	ug/l	88
77) t-1,4-Dichloro-2-butene	11.82	75	198963	49.453	ug/l	96
78) 4-Chlorotoluene	12.30	91	1477385	49.121	ug/l	99
79) tert-butylbenzene	12.52	119	1754635	47.406	ug/l	98
80) 1,2,4-Trimethylbenzene	12.57	105	1936476	48.898	ug/l	99
81) sec-Butylbenzene	12.70	105	2251888	48.254	ug/l	99
82) p-Isopropyltoluene	12.82	119	2038492	49.055	ug/l	99
83) 1,3-Dichlorobenzene	12.81	146	981799	49.858	ug/l	99
84) 1,4-Dichlorobenzene	12.90	146	916012	50.007	ug/l	99
85) n-Butylbenzene	13.15	91	1485986	49.457	ug/l	99
86) Hexachloroethane	13.41	117	359500	47.578	ug/l	99
87) 1,2-Dichlorobenzene	13.19	146	971453	49.746	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.81	75	91491	47.739	ug/l	97
89) 1,2,4-Trichlorobenzene	14.45	180	409667	52.359	ug/l	99
90) Hexachlorobutadiene	14.55	225	405153	48.124	ug/l	98
91) Naphthalene	14.67	128	700998	47.289	ug/l	100
92) 1,2,3-Trichlorobenzene	14.83	180	372231	51.776	ug/l	98

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

