

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070319\
 Data File : VN056585.D
 Acq On : 3 Jul 2019 14:11
 Operator : JC/SP
 Sample : K3591-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 LOQ-WATER-02-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/8/2019 10:05:20 AM

Quant Time: Jul 03 22:31:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N070319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 03 11:05:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	47744	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	265954	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	224622	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	101627	30.88	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.93%
60) 4-Bromofluorobenzene	12.40	95	94829	27.47	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	91.57%
63) Toluene-d8	10.09	98	323459	30.99	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	11407	4.764	ug/l 99
3) Chloromethane	2.06	50	18181	5.232	ug/l 97
4) Vinyl Chloride	2.18	62	16411	5.018	ug/l 99
5) Bromomethane	2.53	94	11894m	6.816	ug/l
6) Chloroethane	2.68	64	9422	5.202	ug/l 96
7) Trichlorofluoromethane	3.00	101	21617	5.149	ug/l 94
8) Diethyl Ether	3.41	74	9409	5.284	ug/l 92
9) 1,1,2-Trichlorotrifluoroet	3.75	101	13957	5.247	ug/l 91
10) 1,1-Dichloroethene	3.73	96	13498	5.172	ug/l 97
11) Methyl Iodide	3.95	142	17414	4.666	ug/l 100
12) Methyl Acetate	4.33	43	22695	6.448	ug/l 99
13) Acrolein	3.61	56	11451	33.322	ug/l 93
14) Acrylonitrile	4.99	53	39738	25.714	ug/l 98
15) Acetone	3.82	58	11558	26.805	ug/l 86
16) Carbon Disulfide	4.05	76	29559	4.710	ug/l 100
17) Allyl chloride	4.32	41	22255	4.873	ug/l 98
18) Methylene Chloride	4.55	84	16834	5.456	ug/l 93
19) trans-1,2-Dichloroethene	5.05	96	14678	5.185	ug/l 98
20) Diisopropyl ether	5.95	45	49231	5.218	ug/l 91
21) 1,1-Dichloroethane	5.85	63	27623	5.190	ug/l 97
22) cis-1,2-Dichloroethene	6.83	96	16979	5.101	ug/l # 81
23) tert-Butyl Alcohol	4.80	59	20075m	34.726	ug/l
24) Methyl tert-Butyl Ether	5.05	73	44449	5.149	ug/l # 76
25) Chloroform	7.37	83	27711	5.312	ug/l 98
26) Cyclohexane	7.65	56	25004	5.100	ug/l # 91
29) 1,1-Dichloropropene	7.79	75	20086	5.115	ug/l 96
30) 2-Butanone	6.84	43	53595	24.617	ug/l 97
31) 2,2-Dichloropropane	6.83	77	17669	4.679	ug/l # 75
32) 1,1,1-Trichloroethane	7.57	97	20838	4.977	ug/l 99
33) Carbon Tetrachloride	7.77	117	16775	4.726	ug/l 96
34) Benzene	8.04	78	63805	5.196	ug/l # 71
35) Methacrylonitrile	7.18	41	10255	5.304	ug/l 94
36) 1,2-Dichloroethane	8.13	62	21760	5.452	ug/l # 83
37) Trichloroethene	8.84	130	16501	5.152	ug/l 98
38) Methylcyclohexane	9.08	83	23631	4.801	ug/l 96
39) 1,2-Dichloropropane	9.12	63	17225	5.210	ug/l 97
40) Dibromomethane	9.21	93	10175	4.979	ug/l 93

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	17769	4.692	ug/l	94
42) Vinyl Acetate	5.90	43	180440	23.276	ug/l	96
43) Ethyl Acetate	6.94	43	21541	5.115	ug/l #	83
44) Isopropyl Acetate	8.17	43	32033	4.875	ug/l	100
45) 1,4-Dioxane	9.20	88	6409	99.683	ug/l #	85
46) Methyl methacrylate	9.20	41	16498	5.110	ug/l	95
47) n-amyl Acetate	12.07	43	23267	4.260	ug/l	93
48) t-1,3-Dichloropropene	10.38	75	17116	4.217	ug/l	95
49) cis-1,3-Dichloropropene	9.84	75	20606	4.401	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	15397	5.115	ug/l	93
51) Ethyl methacrylate	10.43	69	22536	4.753	ug/l	93
52) 1,3-Dichloropropane	10.71	76	27466	5.369	ug/l	98
53) Dibromochloromethane	10.90	129	13230	4.484	ug/l	97
54) 1,2-Dibromoethane	11.00	107	14852	4.735	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	55990	23.174	ug/l	97
56) Bromoform	12.13	173	8695	4.055	ug/l #	97
58) 4-Methyl-2-Pentanone	9.99	43	109252	27.052	ug/l	95
59) 2-Hexanone	10.75	43	75200	25.093	ug/l	98
61) Tetrachloroethene	10.63	164	15509	5.501	ug/l	98
62) Toluene	10.16	91	66860	5.333	ug/l	99
64) Chlorobenzene	11.43	112	39114	5.179	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	13700	5.037	ug/l	98
66) Ethyl Benzene	11.51	91	69299	5.098	ug/l	100
67) m/p-Xylenes	11.62	106	50572	10.081	ug/l	95
68) o-Xylene	11.95	106	25811	5.203	ug/l	100
69) Styrene	11.96	104	37784	4.578	ug/l	96
70) Isopropylbenzene	12.25	105	65828	5.086	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	22363	5.226	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	17870m	4.966	ug/l	
73) Bromobenzene	12.53	156	15963	4.782	ug/l	87
74) n-propylbenzene	12.59	91	69797	4.753	ug/l	96
75) 2-Chlorotoluene	12.67	91	43714	4.978	ug/l	97
76) 1,3,5-Trimethylbenzene	12.73	105	53988	4.926	ug/l	95
77) t-1,4-Dichloro-2-butene	12.30	75	4096	3.554	ug/l	77
78) 4-Chlorotoluene	12.77	91	40114	4.697	ug/l	96
79) tert-butylbenzene	12.99	119	46953	5.014	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	51944	4.798	ug/l	99
81) sec-Butylbenzene	13.17	105	58937	4.746	ug/l	98
82) p-Isopropyltoluene	13.29	119	51477	4.611	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	25378	4.578	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	22186	4.149	ug/l	97
85) n-Butylbenzene	13.61	91	38812	4.136	ug/l	97
86) Hexachloroethane	13.87	117	6882	4.088	ug/l	93
87) 1,2-Dichlorobenzene	13.65	146	25663	4.559	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.26	75	3233	4.216	ug/l	91
89) 1,2,4-Trichlorobenzene	14.91	180	10411	3.346	ug/l	99
90) Hexachlorobutadiene	15.01	225	9317	4.819	ug/l	98
91) Naphthalene	15.13	128	27940	3.200	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	11891	3.640	ug/l	96

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

