

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080619\
 Data File : VN057109.D
 Acq On : 6 Aug 2019 17:35
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMdadoda
 8/9/2019 12:51:40 AM

Quant Time: Aug 07 04:38:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 24 04:19:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	74110	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	397740	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	344193	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	145669	30.03	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.10%
60) 4-Bromofluorobenzene	12.40	95	146928	28.48	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.93%
63) Toluene-d8	10.09	98	482896	29.70	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	95824	21.626	ug/l 96
3) Chloromethane	2.05	50	104492	19.326	ug/l 99
4) Vinyl Chloride	2.18	62	100369	19.253	ug/l 98
5) Bromomethane	2.55	94	58043	18.134	ug/l 98
6) Chloroethane	2.69	64	54182	18.738	ug/l 99
7) Trichlorofluoromethane	3.00	101	141304	22.258	ug/l 100
8) Diethyl Ether	3.40	74	51932	21.954	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	84272	21.138	ug/l 97
10) 1,1-Dichloroethene	3.73	96	81982	20.721	ug/l 99
11) Methyl Iodide	3.94	142	83274	14.227	ug/l 99
12) Methyl Acetate	4.31	43	83865	17.320	ug/l 95
13) Acrolein	3.59	56	61930	113.011	ug/l 98
14) Acrylonitrile	4.97	53	179913	96.345	ug/l 97
15) Acetone	3.81	58	49265	102.045	ug/l 93
16) Carbon Disulfide	4.04	76	210911	19.770	ug/l 99
17) Allyl chloride	4.31	41	114534	17.299	ug/l 96
18) Methylene Chloride	4.54	84	95237	20.681	ug/l 98
19) trans-1,2-Dichloroethene	5.03	96	86414	20.638	ug/l 95
20) Diisopropyl ether	5.94	45	265434	19.746	ug/l 97
21) 1,1-Dichloroethane	5.83	63	158622	20.305	ug/l 98
22) cis-1,2-Dichloroethene	6.82	96	102569	21.136	ug/l 97
23) tert-Butyl Alcohol	4.77	59	54422	87.330	ug/l # 100
24) Methyl tert-Butyl Ether	5.03	73	246443	20.603	ug/l 98
25) Chloroform	7.36	83	161005	21.127	ug/l 100
26) Cyclohexane	7.64	56	141294	19.689	ug/l # 97
29) 1,1-Dichloropropene	7.78	75	117161	20.757	ug/l 98
30) 2-Butanone	6.83	43	219818	96.936	ug/l 98
31) 2,2-Dichloropropane	6.81	77	118989	22.717	ug/l 98
32) 1,1,1-Trichloroethane	7.56	97	134223	21.643	ug/l 99
33) Carbon Tetrachloride	7.76	117	116668	21.554	ug/l 99
34) Benzene	8.03	78	364689	20.506	ug/l 97
35) Methacrylonitrile	7.16	41	41001	18.105	ug/l 97
36) 1,2-Dichloroethane	8.12	62	115743	20.935	ug/l 98
37) Trichloroethene	8.83	130	100800	21.141	ug/l 96
38) Methylcyclohexane	9.07	83	149492	20.821	ug/l 97
39) 1,2-Dichloropropane	9.11	63	94237	19.851	ug/l 96
40) Dibromomethane	9.20	93	61493	21.116	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	116775	20.868	ug/l	99
42) Vinyl Acetate	5.88	43	1001103	99.132	ug/l	98
43) Ethyl Acetate	6.92	43	92279	19.850	ug/l	94
44) Isopropyl Acetate	8.16	43	162472	20.967	ug/l #	85
45) 1,4-Dioxane	9.19	88	27572	373.757	ug/l	96
46) Methyl methacrylate	9.19	41	74742	19.334	ug/l	93
47) n-amyl Acetate	12.07	43	115077	18.551	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	120544	20.701	ug/l	99
49) cis-1,3-Dichloropropene	9.83	75	138835	20.459	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	87217	20.859	ug/l	99
51) Ethyl methacrylate	10.42	69	121897	20.156	ug/l	98
52) 1,3-Dichloropropane	10.70	76	145039	20.554	ug/l	99
53) Dibromochloromethane	10.90	129	91212	20.987	ug/l	99
54) 1,2-Dibromoethane	11.00	107	90204	21.147	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	182208	69.566	ug/l	97
56) Bromoform	12.12	173	62250	20.701	ug/l	98
58) 4-Methyl-2-Pentanone	9.98	43	454671	98.437	ug/l	97
59) 2-Hexanone	10.75	43	310043	98.507	ug/l	98
61) Tetrachloroethene	10.63	164	98993	20.522	ug/l	99
62) Toluene	10.15	91	393755	21.034	ug/l	100
64) Chlorobenzene	11.43	112	237564	21.068	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.50	131	90892	21.282	ug/l	98
66) Ethyl Benzene	11.51	91	411159	20.843	ug/l	97
67) m/p-Xylenes	11.62	106	310234	42.175	ug/l	100
68) o-Xylene	11.94	106	152122	21.034	ug/l	100
69) Styrene	11.96	104	239060	20.398	ug/l	99
70) Isopropylbenzene	12.25	105	407355	21.391	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	113905	21.356	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	98959m	21.087	ug/l	
73) Bromobenzene	12.52	156	102160	20.790	ug/l	98
74) n-propylbenzene	12.59	91	420780	20.209	ug/l	99
75) 2-Chlorotoluene	12.67	91	262187	20.770	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	337270	21.038	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	28411	19.282	ug/l	98
78) 4-Chlorotoluene	12.77	91	241428	20.120	ug/l	99
79) tert-butylbenzene	12.99	119	302782	21.887	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	320583	20.513	ug/l	97
81) sec-Butylbenzene	13.17	105	376362	20.838	ug/l	99
82) p-Isopropyltoluene	13.29	119	337735	20.821	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	147074	19.010	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	136914	18.716	ug/l	98
85) n-Butylbenzene	13.61	91	233607	18.341	ug/l	98
86) Hexachloroethane	13.87	117	56269	20.728	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	153029	19.913	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.26	75	14897	18.054	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	48229	17.127	ug/l	98
90) Hexachlorobutadiene	15.00	225	62616	22.167	ug/l	99
91) Naphthalene	15.12	128	116677	16.269	ug/l	99
92) 1,2,3-Trichlorobenzene	15.29	180	56190	13.831	ug/l	97

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

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