

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081219\
 Data File : VN057209.D
 Acq On : 12 Aug 2019 12:11
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 8/14/2019 9:23:43 AM

Quant Time: Aug 13 02:06:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sun Aug 11 03:53:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.59	128	159586	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.01	114	879422	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.91	117	765387	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.44	65	312448	30.04	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.13%
60) 4-Bromofluorobenzene	11.92	95	320682	28.14	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.80%
63) Toluene-d8	9.56	98	1060644	30.02	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.07%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.82	85	166537	19.132	ug/l	99
3) Chloromethane	2.00	50	185070	18.354	ug/l	99
4) Vinyl Chloride	2.11	62	183924	17.930	ug/l	99
5) Bromomethane	2.43	94	135608	18.558	ug/l	100
6) Chloroethane	2.55	64	123022	18.494	ug/l	96
7) Trichlorofluoromethane	2.83	101	285438	18.662	ug/l	97
8) Diethyl Ether	3.14	74	101543	17.812	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.44	101	167982	18.156	ug/l	98
10) 1,1-Dichloroethene	3.43	96	162623	17.777	ug/l	96
11) Methyl Iodide	3.63	142	261630	18.329	ug/l	98
12) Methyl Acetate	3.89	43	195923	20.560	ug/l	99
13) Acrolein	3.31	56	97613	92.885	ug/l	97
14) Acrylonitrile	4.45	53	379868	95.548	ug/l	98
15) Acetone	3.48	58	104359	79.092	ug/l	100
16) Carbon Disulfide	3.72	76	437978	17.747	ug/l	98
17) Allyl chloride	3.91	41	234073	17.357	ug/l	96
18) Methylene Chloride	4.10	84	190269	18.347	ug/l	99
19) trans-1,2-Dichloroethene	4.50	96	175548	17.900	ug/l	98
20) Diisopropyl ether	5.32	45	507523	18.453	ug/l	92
21) 1,1-Dichloroethane	5.25	63	316089	18.452	ug/l	99
22) cis-1,2-Dichloroethene	6.21	96	200337	17.948	ug/l	98
23) tert-Butyl Alcohol	4.24	59	126783	96.639	ug/l #	100
24) Methyl tert-Butyl Ether	4.49	73	495244	18.411	ug/l	99
25) Chloroform	6.76	83	323084	18.342	ug/l	99
26) Cyclohexane	7.07	56	256812	17.537	ug/l #	96
29) 1,1-Dichloropropene	7.20	75	236450	17.879	ug/l	99
30) 2-Butanone	6.20	43	461610	88.657	ug/l	100
31) 2,2-Dichloropropane	6.21	77	246434	17.429	ug/l	99
32) 1,1,1-Trichloroethane	6.98	97	280471	18.313	ug/l	100
33) Carbon Tetrachloride	7.18	117	248733	18.244	ug/l	97
34) Benzene	7.46	78	728754	18.052	ug/l	97
35) Methacrylonitrile	6.55	41	101928	19.370	ug/l	94
36) 1,2-Dichloroethane	7.54	62	237382	18.406	ug/l	99
37) Trichloroethene	8.27	130	207575	18.095	ug/l	100
38) Methylcyclohexane	8.53	83	276987	17.551	ug/l	100
39) 1,2-Dichloropropane	8.56	63	186315	17.905	ug/l	99
40) Dibromomethane	8.65	93	124250	18.548	ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	8.85	83	242152	18.179	ug/l	98
42) Vinyl Acetate	5.26	43	1978714	91.415	ug/l	100
43) Ethyl Acetate	6.29	43	191490	19.941	ug/l	98
44) Isopropyl Acetate	7.56	43	341965	19.613	ug/l	99
45) 1,4-Dioxane	8.64	88	62562	384.510	ug/l	99
46) Methyl methacrylate	8.64	41	149462	18.801	ug/l	98
47) n-amyl Acetate	11.59	43	226542	17.661	ug/l	99
48) t-1,3-Dichloropropene	9.86	75	257027	18.096	ug/l	99
49) cis-1,3-Dichloropropene	9.30	75	288956	17.946	ug/l	99
50) 1,1,2-Trichloroethane	10.04	97	178836	18.678	ug/l	97
51) Ethyl methacrylate	9.90	69	245262	18.152	ug/l	99
52) 1,3-Dichloropropane	10.19	76	298302	18.692	ug/l	99
53) Dibromochloromethane	10.39	129	195569	18.127	ug/l	98
54) 1,2-Dibromoethane	10.50	107	188627	18.873	ug/l	99
55) 2-Chloroethyl vinyl ether	9.15	63	314202	82.358	ug/l	99
56) Bromoform	11.64	173	144435	18.117	ug/l	99
58) 4-Methyl-2-Pentanone	9.45	43	941666	95.771	ug/l	99
59) 2-Hexanone	10.24	43	644553	91.180	ug/l	98
61) Tetrachloroethene	10.11	164	221685	18.871	ug/l	96
62) Toluene	9.63	91	793983	18.225	ug/l	100
64) Chlorobenzene	10.93	112	491085	18.327	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.01	131	190185	18.508	ug/l	98
66) Ethyl Benzene	11.01	91	845349	18.102	ug/l	100
67) m/p-Xylenes	11.13	106	635235	36.070	ug/l	100
68) o-Xylene	11.46	106	308365	18.035	ug/l	98
69) Styrene	11.48	104	485304	17.701	ug/l	99
70) Isopropylbenzene	11.77	105	835669	18.154	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.02	83	234683	18.614	ug/l	98
72) 1,2,3-Trichloropropane	12.08	75	213250m	19.326	ug/l	
73) Bromobenzene	12.05	156	212083	17.767	ug/l	97
74) n-propylbenzene	12.11	91	830974	17.195	ug/l	99
75) 2-Chlorotoluene	12.20	91	534201	17.872	ug/l	98
76) 1,3,5-Trimethylbenzene	12.26	105	695948	17.955	ug/l	87
77) t-1,4-Dichloro-2-butene	11.82	75	62981	16.960	ug/l	98
78) 4-Chlorotoluene	12.30	91	462322	16.654	ug/l	99
79) tert-butylbenzene	12.52	119	619568	18.136	ug/l	100
80) 1,2,4-Trimethylbenzene	12.57	105	642224	17.570	ug/l	99
81) sec-Butylbenzene	12.70	105	741459	17.214	ug/l	99
82) p-Isopropyltoluene	12.82	119	637817	16.629	ug/l	100
83) 1,3-Dichlorobenzene	12.81	146	293934	16.172	ug/l	99
84) 1,4-Dichlorobenzene	12.90	146	271675	16.069	ug/l	99
85) n-Butylbenzene	13.15	91	446126	16.087	ug/l	99
86) Hexachloroethane	13.41	117	122615	17.581	ug/l	98
87) 1,2-Dichlorobenzene	13.19	146	302138	16.762	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.81	75	28733	16.243	ug/l	94
89) 1,2,4-Trichlorobenzene	14.45	180	77874	16.232	ug/l	98
90) Hexachlorobutadiene	14.55	225	131745	16.954	ug/l	98
91) Naphthalene	14.67	128	149641	10.937	ug/l	100
92) 1,2,3-Trichlorobenzene	14.84	180	82101	16.874	ug/l	97

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

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