

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
 Data File : VN056679.D
 Acq On : 12 Jul 2019 10:36
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 7/16/2019 9:57:42 AM

Quant Time: Jul 12 23:51:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:38:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	57783	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	312438	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	276721	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	116206	29.35	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.83%
60) 4-Bromofluorobenzene	12.40	95	126747	29.69	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.97%
63) Toluene-d8	10.09	98	388903	30.31	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.03%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	68451	22.784	ug/l 100
3) Chloromethane	2.06	50	90107	21.009	ug/l 100
4) Vinyl Chloride	2.18	62	88465	21.682	ug/l 100
5) Bromomethane	2.55	94	54292	24.520	ug/l 100
6) Chloroethane	2.70	64	49982	22.059	ug/l 100
7) Trichlorofluoromethane	3.01	101	114314	21.874	ug/l 100
8) Diethyl Ether	3.41	74	45150	20.637	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.75	101	70986	21.492	ug/l 100
10) 1,1-Dichloroethene	3.73	96	67922	21.103	ug/l 100
11) Methyl Iodide	3.95	142	88179	19.272	ug/l 100
12) Methyl Acetate	4.32	43	83718	19.407	ug/l 100
13) Acrolein	3.60	56	28737	73.061	ug/l 100
14) Acrylonitrile	4.99	53	195327	102.835	ug/l 100
15) Acetone	3.82	58	81683	140.642	ug/l 100
16) Carbon Disulfide	4.05	76	173313	21.852	ug/l 100
17) Allyl chloride	4.32	41	115843	20.524	ug/l 100
18) Methylene Chloride	4.55	84	79954	20.983	ug/l 100
19) trans-1,2-Dichloroethene	5.04	96	73321	20.981	ug/l 100
20) Diisopropyl ether	5.95	45	237756	20.554	ug/l 100
21) 1,1-Dichloroethane	5.85	63	135514	20.726	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	85139	20.746	ug/l 100
23) tert-Butyl Alcohol	4.79	59	68267	95.851	ug/l 100
24) Methyl tert-Butyl Ether	5.05	73	214074	20.212	ug/l 100
25) Chloroform	7.37	83	134105	20.886	ug/l 100
26) Cyclohexane	7.65	56	127931	21.084	ug/l 100
29) 1,1-Dichloropropene	7.79	75	102263	21.543	ug/l 100
30) 2-Butanone	6.83	43	309710	115.908	ug/l 100
31) 2,2-Dichloropropane	6.83	77	97314	21.311	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	107653	21.345	ug/l 100
33) Carbon Tetrachloride	7.77	117	92433	21.467	ug/l 100
34) Benzene	8.04	78	315108	21.320	ug/l 100
35) Methacrylonitrile	7.17	41	39421	17.912	ug/l 100
36) 1,2-Dichloroethane	8.12	62	101276	21.128	ug/l 100
37) Trichloroethene	8.83	130	85152	21.868	ug/l 100
38) Methylcyclohexane	9.08	83	129048	21.644	ug/l 100
39) 1,2-Dichloropropane	9.12	63	84293	21.245	ug/l 100
40) Dibromomethane	9.21	93	53120	21.547	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	97423	21.250	ug/l	100
42) Vinyl Acetate	5.89	43	982980	105.493	ug/l	100
43) Ethyl Acetate	6.93	43	106903	21.165	ug/l	100
44) Isopropyl Acetate	8.16	43	160421	20.423	ug/l	100
45) 1,4-Dioxane	9.20	88	34626	443.813	ug/l	100
46) Methyl methacrylate	9.20	41	78299	20.255	ug/l	100
47) n-amyl Acetate	12.07	43	127664	19.617	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	102739	20.866	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	118429	20.922	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	76867	21.244	ug/l	100
51) Ethyl methacrylate	10.43	69	115751	20.451	ug/l	100
52) 1,3-Dichloropropane	10.71	76	132261	21.422	ug/l	100
53) Dibromochloromethane	10.90	129	75364	21.100	ug/l	100
54) 1,2-Dibromoethane	11.00	107	79108	20.949	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	283219	99.075	ug/l	100
56) Bromoform	12.12	173	54199	20.725	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	526942	104.306	ug/l	100
59) 2-Hexanone	10.75	43	413555	108.831	ug/l	100
61) Tetrachloroethene	10.63	164	82932	22.953	ug/l	100
62) Toluene	10.16	91	333412	21.179	ug/l	100
64) Chlorobenzene	11.43	112	199644	21.023	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	73402	21.302	ug/l	100
66) Ethyl Benzene	11.51	91	358079	20.955	ug/l	100
67) m/p-Xylenes	11.62	106	272044	42.882	ug/l	100
68) o-Xylene	11.95	106	129712	20.839	ug/l	100
69) Styrene	11.96	104	214031	20.683	ug/l	100
70) Isopropylbenzene	12.25	105	347289	21.302	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	111151	20.735	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	95912m	21.327	ug/l	100
73) Bromobenzene	12.52	156	89051	21.155	ug/l	100
74) n-propylbenzene	12.59	91	393389	21.164	ug/l	100
75) 2-Chlorotoluene	12.67	91	236266	21.318	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	300593	21.642	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	28708	19.628	ug/l	100
78) 4-Chlorotoluene	12.77	91	225426	20.959	ug/l	100
79) tert-butylbenzene	12.99	119	251115	21.233	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	295043	21.500	ug/l	100
81) sec-Butylbenzene	13.17	105	333973	21.268	ug/l	100
82) p-Isopropyltoluene	13.29	119	305347	21.528	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	146493	20.883	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	139262	20.626	ug/l	100
85) n-Butylbenzene	13.61	91	243786	20.538	ug/l	100
86) Hexachloroethane	13.87	117	45680	21.175	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	147357	20.847	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	18002	18.850	ug/l	100
89) 1,2,4-Trichlorobenzene	14.90	180	71113	18.248	ug/l	100
90) Hexachlorobutadiene	15.01	225	53505	21.743	ug/l	100
91) Naphthalene	15.13	128	178026	16.592	ug/l	100
92) 1,2,3-Trichlorobenzene	15.31	180	75925	18.610	ug/l	100

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

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