

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
 Data File : VN056695.D
 Acq On : 12 Jul 2019 18:14
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/16/2019 9:56:10 AM

Quant Time: Jul 13 00:54:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:58:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	50860	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	282149	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	248867	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	104461	30.32	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.07%
60) 4-Bromofluorobenzene	12.40	95	112522	29.54	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.47%
63) Toluene-d8	10.09	98	343799	30.23	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	57695	19.963	ug/l 99
3) Chloromethane	2.06	50	78004	20.181	ug/l 98
4) Vinyl Chloride	2.18	62	75957	19.980	ug/l 98
5) Bromomethane	2.55	94	47173	19.686	ug/l 98
6) Chloroethane	2.69	64	44550	20.509	ug/l 96
7) Trichlorofluoromethane	3.01	101	97356	19.966	ug/l 100
8) Diethyl Ether	3.41	74	40114	20.117	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	60424	19.873	ug/l 99
10) 1,1-Dichloroethene	3.73	96	58135	19.381	ug/l 98
11) Methyl Iodide	3.95	142	75459	18.929	ug/l 97
12) Methyl Acetate	4.33	43	75221	18.733	ug/l 98
13) Acrolein	3.61	56	1471m	5.196	ug/l
14) Acrylonitrile	4.99	53	170199	96.221	ug/l 99
15) Acetone	3.82	58	46416	76.020	ug/l 99
16) Carbon Disulfide	4.05	76	142495	18.011	ug/l 100
17) Allyl chloride	4.32	41	98305	18.735	ug/l 98
18) Methylene Chloride	4.55	84	70332	19.971	ug/l 96
19) trans-1,2-Dichloroethene	5.04	96	62797	19.555	ug/l 96
20) Diisopropyl ether	5.95	45	209842	20.070	ug/l 97
21) 1,1-Dichloroethane	5.85	63	118366	19.814	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	74766	19.911	ug/l 97
23) tert-Butyl Alcohol	4.79	59	59250	96.025	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	187397	19.587	ug/l 99
25) Chloroform	7.37	83	116425	20.004	ug/l 99
26) Cyclohexane	7.65	56	106930	19.257	ug/l # 100
29) 1,1-Dichloropropene	7.80	75	85710	19.111	ug/l 99
30) 2-Butanone	6.84	43	227468	87.599	ug/l 99
31) 2,2-Dichloropropane	6.82	77	79463	18.307	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	94420	19.750	ug/l 99
33) Carbon Tetrachloride	7.77	117	80138	19.480	ug/l 96
34) Benzene	8.04	78	277592	20.144	ug/l 98
35) Methacrylonitrile	7.17	41	32625	16.446	ug/l 98
36) 1,2-Dichloroethane	8.12	62	89151	20.140	ug/l 99
37) Trichloroethene	8.83	130	71560	19.120	ug/l 97
38) Methylcyclohexane	9.08	83	106911	18.869	ug/l 98
39) 1,2-Dichloropropane	9.12	63	72265	19.537	ug/l 99
40) Dibromomethane	9.21	93	45515	19.319	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	85559	19.705	ug/l	99
42) Vinyl Acetate	5.90	43	850431	98.404	ug/l	100
43) Ethyl Acetate	6.93	43	92881	19.794	ug/l	97
44) Isopropyl Acetate	8.17	43	140795	19.237	ug/l #	88
45) 1,4-Dioxane	9.20	88	28772	388.588	ug/l	99
46) Methyl methacrylate	9.20	41	67957	19.328	ug/l	98
47) n-amyl Acetate	12.07	43	110735	18.500	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	85335	17.867	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	102766	19.073	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	67574	19.687	ug/l	97
51) Ethyl methacrylate	10.43	69	98656	18.686	ug/l	98
52) 1,3-Dichloropropane	10.71	76	115145	20.049	ug/l	100
53) Dibromochloromethane	10.90	129	66260	19.101	ug/l	99
54) 1,2-Dibromoethane	11.00	107	68709	19.261	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	261739	102.519	ug/l	99
56) Bromoform	12.13	173	46455	18.090	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	460441	98.300	ug/l	100
59) 2-Hexanone	10.75	43	329111	92.563	ug/l	100
61) Tetrachloroethene	10.63	164	73046	20.427	ug/l	99
62) Toluene	10.16	91	293910	20.107	ug/l	98
64) Chlorobenzene	11.43	112	176212	19.765	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	63650	19.474	ug/l	99
66) Ethyl Benzene	11.51	91	305878	19.359	ug/l	98
67) m/p-Xylenes	11.62	106	230721	38.694	ug/l	99
68) o-Xylene	11.95	106	112361	19.320	ug/l	100
69) Styrene	11.96	104	185641	19.263	ug/l	99
70) Isopropylbenzene	12.25	105	299810	19.666	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	96914	19.586	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	84442m	19.967	ug/l	
73) Bromobenzene	12.52	156	76532	19.211	ug/l	99
74) n-propylbenzene	12.59	91	324069	18.842	ug/l	99
75) 2-Chlorotoluene	12.67	91	204527	19.745	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	254129	19.544	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	22892	16.284	ug/l	100
78) 4-Chlorotoluene	12.77	91	185372	18.455	ug/l	99
79) tert-butylbenzene	12.99	119	214666	19.406	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	250505	19.425	ug/l	99
81) sec-Butylbenzene	13.17	105	282147	19.270	ug/l	99
82) p-Isopropyltoluene	13.29	119	254958	19.147	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	124249	18.713	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	114750	18.029	ug/l	99
85) n-Butylbenzene	13.61	91	195436	17.794	ug/l	100
86) Hexachloroethane	13.87	117	38385	18.372	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	126837	19.009	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	15692	18.382	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	60450	16.843	ug/l	97
90) Hexachlorobutadiene	15.01	225	42265	18.112	ug/l	98
91) Naphthalene	15.13	128	151805	15.726	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	64217	17.064	ug/l	96

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

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