

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056085.D
 Acq On : 7 Jun 2019 8:48
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 6/10/2019 3:31:09 PM

Quant Time: Jun 07 10:02:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	51947	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	283368	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	247832	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	100712	31.22	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.07%
60) 4-Bromofluorobenzene	12.40	95	108246	29.47	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.23%
63) Toluene-d8	10.09	98	340818	30.32	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.07%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	65183	22.310	ug/l 99
3) Chloromethane	2.06	50	71860	21.051	ug/l 99
4) Vinyl Chloride	2.18	62	72263	20.762	ug/l 100
5) Bromomethane	2.54	94	49620	22.685	ug/l 100
6) Chloroethane	2.69	64	41659	21.161	ug/l 98
7) Trichlorofluoromethane	3.01	101	89182	20.710	ug/l 100
8) Diethyl Ether	3.40	74	36241	19.843	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.74	101	57368	21.581	ug/l 99
10) 1,1-Dichloroethene	3.72	96	55306	20.396	ug/l 96
11) Methyl Iodide	3.94	142	70877	16.567	ug/l 98
12) Methyl Acetate	4.32	43	62912	19.307	ug/l 99
13) Acrolein	3.60	56	17429	109.740	ug/l 99
14) Acrylonitrile	4.99	53	139852	96.242	ug/l 98
15) Acetone	3.82	58	62529	131.420	ug/l 95
16) Carbon Disulfide	4.04	76	118786	18.411	ug/l 100
17) Allyl chloride	4.31	41	82401	19.613	ug/l 100
18) Methylene Chloride	4.54	84	62993	20.066	ug/l 95
19) trans-1,2-Dichloroethene	5.03	96	58298	20.141	ug/l 96
20) Diisopropyl ether	5.95	45	174843	20.086	ug/l 98
21) 1,1-Dichloroethane	5.84	63	102220	20.207	ug/l 100
22) cis-1,2-Dichloroethene	6.82	96	67606	20.012	ug/l 97
23) tert-Butyl Alcohol	4.81	59	52881	93.493	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	170508	19.731	ug/l 99
25) Chloroform	7.37	83	102293	20.250	ug/l 99
26) Cyclohexane	7.65	56	96502	20.562	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	78149	20.388	ug/l 99
30) 2-Butanone	6.84	43	214585	106.341	ug/l 99
31) 2,2-Dichloropropane	6.82	77	74908	21.007	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	84560	19.967	ug/l 99
33) Carbon Tetrachloride	7.77	117	68905	19.205	ug/l 99
34) Benzene	8.04	78	246403	20.176	ug/l 99
35) Methacrylonitrile	7.19	41	39359m	23.098	ug/l
36) 1,2-Dichloroethane	8.12	62	76483	19.993	ug/l 99
37) Trichloroethene	8.83	130	69034	20.200	ug/l 99
38) Methylcyclohexane	9.08	83	99801	20.538	ug/l 99
39) 1,2-Dichloropropane	9.12	63	63619	20.339	ug/l 97
40) Dibromomethane	9.21	93	41099	19.817	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	70147	18.889	ug/l	99
42) Vinyl Acetate	5.89	43	711171	98.855	ug/l	99
43) Ethyl Acetate	6.93	43	73677	19.078	ug/l	95
44) Isopropyl Acetate	8.17	43	112475	18.757	ug/l	100
45) 1,4-Dioxane	9.20	88	24974	389.341	ug/l	94
46) Methyl methacrylate	9.20	41	54312	18.233	ug/l	96
47) n-amyl Acetate	12.07	43	89582	18.065	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	69916	17.890	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	85837	18.756	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	61091	19.832	ug/l	99
51) Ethyl methacrylate	10.43	69	86396	18.539	ug/l	97
52) 1,3-Dichloropropane	10.71	76	98019	19.628	ug/l	99
53) Dibromochloromethane	10.90	129	54356	18.026	ug/l	96
54) 1,2-Dibromoethane	11.00	107	60564	18.841	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	152087	93.170	ug/l	99
56) Bromoform	12.13	173	36306	16.643	ug/l #	97
58) 4-Methyl-2-Pentanone	9.99	43	362170	96.507	ug/l	99
59) 2-Hexanone	10.75	43	273364	101.914	ug/l	100
61) Tetrachloroethene	10.63	164	71450	20.686	ug/l	97
62) Toluene	10.15	91	265624	19.854	ug/l	99
64) Chlorobenzene	11.43	112	161899	19.950	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	55995	19.135	ug/l	98
66) Ethyl Benzene	11.51	91	284061	19.934	ug/l	100
67) m/p-Xylenes	11.62	106	219339	40.214	ug/l	99
68) o-Xylene	11.95	106	105794	19.813	ug/l	99
69) Styrene	11.96	104	170238	19.623	ug/l	99
70) Isopropylbenzene	12.25	105	282231	20.230	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	81692	19.422	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	65301m	17.933	ug/l	
73) Bromobenzene	12.53	156	73219	19.772	ug/l	99
74) n-propylbenzene	12.59	91	297199	20.186	ug/l	99
75) 2-Chlorotoluene	12.67	91	182780	20.015	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	231701	20.190	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	15984	15.384	ug/l	84
78) 4-Chlorotoluene	12.77	91	168637	19.773	ug/l	100
79) tert-butylbenzene	12.99	119	204770	20.140	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	223892	20.055	ug/l	100
81) sec-Butylbenzene	13.17	105	263507	20.487	ug/l	99
82) p-Isopropyltoluene	13.29	119	237200	20.398	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	113279	19.629	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	102411	18.630	ug/l	99
85) n-Butylbenzene	13.61	91	165174	19.031	ug/l	98
86) Hexachloroethane	13.87	117	32030	17.668	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	114191	19.466	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	10756	16.290	ug/l	99
89) 1,2,4-Trichlorobenzene	14.91	180	44632	19.402	ug/l	98
90) Hexachlorobutadiene	15.01	225	44551	20.804	ug/l	99
91) Naphthalene	15.13	128	117100	15.031	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	51955	16.920	ug/l	99

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

