

Data Path : Z:\voasrv\HPCHEM1\MSVOA N\Data\VN041619\
 Data File : VN055068.D
 Acq On : 16 Apr 2019 10:08
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 4:22:57 AM

Quant Time: Apr 17 01:44:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	73729	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	396290	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	352546	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	170029	30.26	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.87%
60) 4-Bromofluorobenzene	12.40	95	161228	29.38	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.93%
63) Toluene-d8	10.09	98	506371	30.21	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	88085	20.314	ug/l 100
3) Chloromethane	2.06	50	121017	20.659	ug/l 96
4) Vinyl Chloride	2.19	62	104717	20.673	ug/l 99
5) Bromomethane	2.56	94	61514	20.994	ug/l 95
6) Chloroethane	2.70	64	57067	20.115	ug/l 99
7) Trichlorofluoromethane	3.02	101	131569	20.326	ug/l 95
8) Diethyl Ether	3.41	74	42624	20.509	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	74201	20.970	ug/l 96
10) 1,1-Dichloroethene	3.73	96	64812	19.811	ug/l 96
11) Methyl Iodide	3.94	142	100575	20.315	ug/l 98
12) Methyl Acetate	4.33	43	96026	23.864	ug/l 95
13) Acrolein	3.60	56	34754	98.548	ug/l 99
14) Acrylonitrile	4.99	53	184797	112.095	ug/l 97
15) Acetone	3.82	58	56954	139.613	ug/l 100
16) Carbon Disulfide	4.04	76	217187	19.792	ug/l 99
17) Allyl chloride	4.31	41	170274	21.135	ug/l 98
18) Methylene Chloride	4.54	84	101946	21.082	ug/l 98
19) trans-1,2-Dichloroethene	5.03	96	88381	20.753	ug/l 97
20) Diisopropyl ether	5.96	45	342552	20.989	ug/l 98
21) 1,1-Dichloroethane	5.84	63	182562	20.943	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	101015	20.407	ug/l 97
23) tert-Butyl Alcohol	4.82	59	30221	114.967	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	244178	22.229	ug/l # 66
25) Chloroform	7.37	83	174886	20.944	ug/l 99
26) Cyclohexane	7.65	56	162814	20.130	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	131593	21.322	ug/l 99
30) 2-Butanone	6.84	43	266525	130.097	ug/l 99
31) 2,2-Dichloropropane	6.82	77	124218	21.868	ug/l # 100
32) 1,1,1-Trichloroethane	7.57	97	142069	21.778	ug/l 98
33) Carbon Tetrachloride	7.77	117	119741	21.201	ug/l 99
34) Benzene	8.04	78	390339	21.342	ug/l 98
35) Methacrylonitrile	7.18	41	56141	23.250	ug/l 94
36) 1,2-Dichloroethane	8.12	62	134017	21.440	ug/l 100
37) Trichloroethene	8.83	130	99329	21.304	ug/l 94
38) Methylcyclohexane	9.08	83	140870	19.682	ug/l 99
39) 1,2-Dichloropropane	9.12	63	109738	21.730	ug/l 99
40) Dibromomethane	9.21	93	62436	21.873	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	124708	21.168	ug/l	99
42) Vinyl Acetate	5.90	43	1152987	111.324	ug/l	100
43) Ethyl Acetate	6.94	43	86893	20.820	ug/l #	67
44) Isopropyl Acetate	8.17	43	159594	22.564	ug/l	100
45) 1,4-Dioxane	9.20	88	17726	452.370	ug/l #	79
46) Methyl methacrylate	9.20	41	79576	21.749	ug/l	97
47) n-amyl Acetate	12.07	43	120469	23.125	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	114744	21.210	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	140633	21.057	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	84294	21.742	ug/l	97
51) Ethyl methacrylate	10.43	69	100119	21.663	ug/l	99
52) 1,3-Dichloropropane	10.71	76	150756	22.191	ug/l	99
53) Dibromochloromethane	10.90	129	83156	20.822	ug/l	99
54) 1,2-Dibromoethane	11.00	107	78817	21.654	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	189478	98.067	ug/l	99
56) Bromoform	12.12	173	50544	20.142	ug/l #	98
58) 4-Methyl-2-Pentanone	9.99	43	465469	114.490	ug/l	98
59) 2-Hexanone	10.75	43	322539	124.881	ug/l	100
61) Tetrachloroethene	10.63	164	95867	20.895	ug/l	97
62) Toluene	10.16	91	407931	21.000	ug/l	99
64) Chlorobenzene	11.43	112	240684	20.524	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	91562	21.953	ug/l	98
66) Ethyl Benzene	11.51	91	434535	20.868	ug/l	98
67) m/p-Xylenes	11.62	106	328633	42.459	ug/l	97
68) o-Xylene	11.95	106	162774	21.281	ug/l	98
69) Styrene	11.96	104	248003	20.880	ug/l	99
70) Isopropylbenzene	12.25	105	427369	20.897	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	104823	22.410	ug/l	96
72) 1,2,3-Trichloropropane	12.55	75	82674m	21.402	ug/l	
73) Bromobenzene	12.53	156	99066	20.494	ug/l	97
74) n-propylbenzene	12.59	91	473904	20.699	ug/l	100
75) 2-Chlorotoluene	12.67	91	291415	21.104	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	344060	20.809	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	20120	20.664	ug/l	92
78) 4-Chlorotoluene	12.77	91	272689	20.726	ug/l	99
79) tert-butylbenzene	12.99	119	301884	21.102	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	340099	20.939	ug/l	99
81) sec-Butylbenzene	13.17	105	391728	20.493	ug/l	100
82) p-Isopropyltoluene	13.29	119	330638	20.495	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	166877	20.636	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	156750	20.398	ug/l	98
85) n-Butylbenzene	13.61	91	244481	19.024	ug/l	98
86) Hexachloroethane	13.87	117	51755	20.040	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	167148	21.106	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	12874	20.709	ug/l	90
89) 1,2,4-Trichlorobenzene	14.91	180	64705	18.275	ug/l	95
90) Hexachlorobutadiene	15.01	225	55125	21.354	ug/l	98
91) Naphthalene	15.13	128	140981	19.016	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	70552	19.924	ug/l	98

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

