

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030419\
 Data File : VN054057.D
 Acq On : 4 Mar 2019 9:41
 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
 3/6/2019 10:29:29 AM

Quant Time: Mar 04 23:30:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 01 11:11:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	120811	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	650206	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	572692	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	259710	30.61	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.03%
60) 4-Bromofluorobenzene	12.40	95	261178	29.80	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.33%
63) Toluene-d8	10.09	98	831472	30.18	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	142432	20.852	ug/l 97
3) Chloromethane	2.06	50	180224	19.835	ug/l 98
4) Vinyl Chloride	2.18	62	183067	20.120	ug/l 98
5) Bromomethane	2.57	94	112737	20.142	ug/l 98
6) Chloroethane	2.71	64	112775	21.052	ug/l 99
7) Trichlorofluoromethane	3.02	101	235890	21.338	ug/l 100
8) Diethyl Ether	3.41	74	80373	19.332	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	150035	21.110	ug/l 99
10) 1,1-Dichloroethene	3.74	96	135149	20.295	ug/l 99
11) Methyl Iodide	3.95	142	173329	17.548	ug/l 95
12) Methyl Acetate	4.32	43	108479	19.321	ug/l 99
13) Acrolein	3.61	56	51710	98.953	ug/l 97
14) Acrylonitrile	4.98	53	260738	96.637	ug/l 97
15) Acetone	3.81	58	87750	112.854	ug/l 92
16) Carbon Disulfide	4.05	76	440720	20.398	ug/l 100
17) Allyl chloride	4.32	41	238266	20.232	ug/l 94
18) Methylene Chloride	4.55	84	164120	21.343	ug/l 99
19) trans-1,2-Dichloroethene	5.04	96	149582	20.705	ug/l 94
20) Diisopropyl ether	5.95	45	478529	20.312	ug/l 95
21) 1,1-Dichloroethane	5.85	63	287107	20.635	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	168104	20.902	ug/l 98
23) tert-Butyl Alcohol	4.77	59	44842	92.790	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	358493	19.886	ug/l 99
25) Chloroform	7.37	83	287509	21.417	ug/l 99
26) Cyclohexane	7.65	56	256422	20.251	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	215402	21.150	ug/l 99
30) 2-Butanone	6.83	43	327957	101.986	ug/l 98
31) 2,2-Dichloropropane	6.82	77	216858	21.594	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	238041	21.730	ug/l 99
33) Carbon Tetrachloride	7.77	117	207404	21.383	ug/l 99
34) Benzene	8.04	78	647939	21.406	ug/l 99
35) Methacrylonitrile	7.17	41	75527	21.005	ug/l 95
36) 1,2-Dichloroethane	8.12	62	211131	21.722	ug/l 99
37) Trichloroethene	8.83	130	173719	21.986	ug/l 96
38) Methylcyclohexane	9.08	83	248350	20.660	ug/l 99
39) 1,2-Dichloropropane	9.12	63	173263	20.895	ug/l 100
40) Dibromomethane	9.21	93	101352	21.321	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	217422	21.557	ug/l	99
42) Vinyl Acetate	5.89	43	1631295	98.194	ug/l	100
43) Ethyl Acetate	6.92	43	134697	19.998	ug/l #	70
44) Isopropyl Acetate	8.16	43	221209	18.716	ug/l	99
45) 1,4-Dioxane	9.20	88	30665	441.249	ug/l	95
46) Methyl methacrylate	9.20	41	108876	19.178	ug/l	96
47) n-amyl Acetate	12.07	43	164266	18.920	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	201212	19.896	ug/l	96
49) cis-1,3-Dichloropropene	9.84	75	242238	20.399	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	141791	21.264	ug/l	99
51) Ethyl methacrylate	10.43	69	151642	18.891	ug/l	96
52) 1,3-Dichloropropane	10.71	76	241993	21.146	ug/l	98
53) Dibromochloromethane	10.90	129	154742	21.119	ug/l	97
54) 1,2-Dibromoethane	11.00	107	131028	20.628	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	354319	95.117	ug/l	99
56) Bromoform	12.13	173	98989	20.347	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	645869	100.086	ug/l	97
59) 2-Hexanone	10.75	43	418161	99.180	ug/l	96
61) Tetrachloroethene	10.63	164	170872	21.462	ug/l	97
62) Toluene	10.16	91	684465	21.385	ug/l	100
64) Chlorobenzene	11.43	112	403964	20.727	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	150800	21.073	ug/l	99
66) Ethyl Benzene	11.51	91	700560	20.940	ug/l	100
67) m/p-Xylenes	11.62	106	539051	42.796	ug/l	100
68) o-Xylene	11.95	106	255098	20.892	ug/l	100
69) Styrene	11.96	104	406913	21.046	ug/l	99
70) Isopropylbenzene	12.25	105	685570	21.393	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	159870	20.211	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	130527m	21.733	ug/l	
73) Bromobenzene	12.53	156	165672	20.505	ug/l	99
74) n-propylbenzene	12.59	91	805496	21.108	ug/l	100
75) 2-Chlorotoluene	12.67	91	474567	21.237	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	574416	21.160	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	39273	18.376	ug/l	93
78) 4-Chlorotoluene	12.77	91	465740	20.828	ug/l	99
79) tert-butylbenzene	12.99	119	489809	20.591	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	574589	21.267	ug/l	100
81) sec-Butylbenzene	13.17	105	687227	21.065	ug/l	98
82) p-Isopropyltoluene	13.29	119	581752	20.884	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	292452	20.521	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	281153	20.663	ug/l	98
85) n-Butylbenzene	13.62	91	479398	19.746	ug/l	99
86) Hexachloroethane	13.87	117	105455	20.248	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	285980	20.691	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	22766	19.893	ug/l	93
89) 1,2,4-Trichlorobenzene	14.91	180	126411	18.003	ug/l	98
90) Hexachlorobutadiene	15.01	225	95022	18.626	ug/l	98
91) Naphthalene	15.13	128	227587	18.854	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	121869	17.576	ug/l	98

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

