

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092518\
 Data File : VN051473.D
 Acq On : 25 Sep 2018 9:36
 Operator : MD\SY
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 10/1/2018 11:21:25 AM

Quant Time: Sep 26 01:39:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 26 01:19:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	101201	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	528343	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	468308	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	211196	30.32	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.07%
60) 4-Bromofluorobenzene	12.40	95	209187	30.43	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.43%
63) Toluene-d8	10.09	98	696423	31.02	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	86642	19.990	ug/l 100
3) Chloromethane	2.06	50	155348	20.846	ug/l 95
4) Vinyl Chloride	2.19	62	170046	21.385	ug/l 97
5) Bromomethane	2.57	94	108669	20.910	ug/l 91
6) Chloroethane	2.71	64	108554	22.148	ug/l 99
7) Trichlorofluoromethane	3.02	101	225885	21.885	ug/l 95
8) Diethyl Ether	3.41	74	60794	19.591	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.76	101	112652	21.493	ug/l # 38
10) 1,1-Dichloroethene	3.74	96	101847	21.333	ug/l 98
11) Methyl Iodide	3.96	142	158446	22.506	ug/l 95
12) Methyl Acetate	4.33	43	85492	20.373	ug/l 91
13) Acrolein	3.61	56	59809	106.889	ug/l 91
14) Acrylonitrile	4.99	53	177088	103.891	ug/l # 61
15) Acetone	3.82	58	43227	102.967	ug/l 98
16) Carbon Disulfide	4.06	76	316387	20.893	ug/l 99
17) Allyl chloride	4.33	41	169662	20.131	ug/l 96
18) Methylene Chloride	4.55	84	126224	22.138	ug/l 94
19) trans-1,2-Dichloroethene	5.04	96	113705	22.001	ug/l 98
20) Diisopropyl ether	5.95	45	376991	22.528	ug/l 87
21) 1,1-Dichloroethane	5.85	63	224779	22.299	ug/l 95
22) cis-1,2-Dichloroethene	6.83	96	127121	21.981	ug/l 97
23) tert-Butyl Alcohol	4.79	59	30730	95.734	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	264964	20.377	ug/l # 92
25) Chloroform	7.37	83	230751	22.951	ug/l 97
26) Cyclohexane	7.66	56	182058	21.214	ug/l 96
29) 1,1-Dichloropropene	7.79	75	167359	22.497	ug/l 100
30) 2-Butanone	6.84	43	200251	104.211	ug/l # 98
31) 2,2-Dichloropropane	6.82	77	184148	23.207	ug/l # 81
32) 1,1,1-Trichloroethane	7.57	97	198314	23.351	ug/l 99
33) Carbon Tetrachloride	7.78	117	176289	22.623	ug/l 92
34) Benzene	8.04	78	513311	23.241	ug/l # 69
35) Methacrylonitrile	7.19	41	50707m	18.312	ug/l
36) 1,2-Dichloroethane	8.13	62	162425	22.585	ug/l 97
37) Trichloroethene	8.84	130	133298	22.771	ug/l 100
38) Methylcyclohexane	9.08	83	178069	20.649	ug/l 96
39) 1,2-Dichloropropane	9.12	63	140747	23.426	ug/l 95
40) Dibromomethane	9.21	93	80758	23.616	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	174146	23.163	ug/l	93
42) Vinyl Acetate	5.90	43	1140800	106.765	ug/l	99
43) Ethyl Acetate	6.93	43	90328	22.592	ug/l #	83
44) Isopropyl Acetate	8.17	43	163539	21.267	ug/l	97
45) 1,4-Dioxane	9.20	88	20344	434.865	ug/l	90
46) Methyl methacrylate	9.20	41	80018	21.013	ug/l	95
47) n-amyl Acetate	12.07	43	119905m	19.513	ug/l	
48) t-1,3-Dichloropropene	10.38	75	158718	21.259	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	194473	22.504	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	113702	23.254	ug/l	94
51) Ethyl methacrylate	10.43	69	118073	20.404	ug/l	98
52) 1,3-Dichloropropane	10.71	76	188397	22.839	ug/l	98
53) Dibromochloromethane	10.90	129	128522	22.851	ug/l	95
54) 1,2-Dibromoethane	11.01	107	104200	22.087	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	301270	105.433	ug/l	99
56) Bromoform	12.12	173	83384	21.991	ug/l	96
58) 4-Methyl-2-Pentanone	9.99	43	455871	110.766	ug/l	97
59) 2-Hexanone	10.75	43	279666	103.246	ug/l	97
61) Tetrachloroethene	10.63	164	127802	23.457	ug/l	95
62) Toluene	10.16	91	553184	23.074	ug/l	98
64) Chlorobenzene	11.43	112	332586	22.627	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.51	131	131694	23.174	ug/l	98
66) Ethyl Benzene	11.51	91	537569	21.735	ug/l	100
67) m/p-Xylenes	11.62	106	433541	45.533	ug/l	98
68) o-Xylene	11.95	106	202813	22.364	ug/l	94
69) Styrene	11.96	104	321034	22.411	ug/l	99
70) Isopropylbenzene	12.25	105	546908	22.535	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.50	83	125828	22.025	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	110274m	24.477	ug/l	
73) Bromobenzene	12.53	156	133392	21.809	ug/l	97
74) n-propylbenzene	12.59	91	620951	22.008	ug/l	100
75) 2-Chlorotoluene	12.67	91	376379	22.604	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	456771	22.809	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	30085	19.363	ug/l	97
78) 4-Chlorotoluene	12.77	91	369646	22.382	ug/l	97
79) tert-butylbenzene	12.99	119	387588	22.229	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	460784	22.888	ug/l	97
81) sec-Butylbenzene	13.17	105	535243	22.316	ug/l	99
82) p-Isopropyltoluene	13.29	119	456531	22.049	ug/l	96
83) 1,3-Dichlorobenzene	13.28	146	231212	21.551	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	214030	21.241	ug/l	98
85) n-Butylbenzene	13.62	91	340754	20.044	ug/l	99
86) Hexachloroethane	13.87	117	92827	22.373	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	228821	22.499	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	16958	20.112	ug/l	93
89) 1,2,4-Trichlorobenzene	14.91	180	86030	16.982	ug/l	97
90) Hexachlorobutadiene	15.01	225	84689	21.570	ug/l	97
91) Naphthalene	15.13	128	131545	13.761	ug/l	97
92) 1,2,3-Trichlorobenzene	15.31	180	87992	17.206	ug/l	94

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

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