

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122818\
 Data File : VN053214.D
 Acq On : 28 Dec 2018 9:48
 Operator : MD\SY
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 1/2/2019 9:48:09 AM

Quant Time: Dec 28 10:15:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 28 09:50:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	162450	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	943693	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	846262	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	306033	29.39	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.97%
60) 4-Bromofluorobenzene	12.40	95	394386	30.86	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.87%
63) Toluene-d8	10.09	98	1142031	29.62	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	1100474	101.977	ug/l 100
3) Chloromethane	2.06	50	1263056	99.074	ug/l 99
4) Vinyl Chloride	2.19	62	1241049	98.050	ug/l 97
5) Bromomethane	2.57	94	804642	98.807	ug/l 100
6) Chloroethane	2.71	64	710969	96.903	ug/l 100
7) Trichlorofluoromethane	3.02	101	1530941	98.007	ug/l 100
8) Diethyl Ether	3.41	74	577371	100.282	ug/l 92
9) 1,1,2-Trichlorotrifluoroet	3.77	101	957643	97.284	ug/l 97
10) 1,1-Dichloroethene	3.74	96	946412	99.196	ug/l 96
11) Methyl Iodide	3.96	142	1460200	108.874	ug/l 99
12) Methyl Acetate	4.32	43	734642	99.603	ug/l 97
13) Acrolein	3.61	56	446526	515.343	ug/l 100
14) Acrylonitrile	4.99	53	1673164	508.620	ug/l 98
15) Acetone	3.82	58	355857	508.817	ug/l 95
16) Carbon Disulfide	4.06	76	2939308	101.293	ug/l 99
17) Allyl chloride	4.33	41	1500569	100.686	ug/l 97
18) Methylene Chloride	4.55	84	1055559	95.040	ug/l 94
19) trans-1,2-Dichloroethene	5.05	96	992616	98.176	ug/l 95
20) Diisopropyl ether	5.95	45	3179844	98.666	ug/l 94
21) 1,1-Dichloroethane	5.85	63	1846479	98.533	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	1127097	99.725	ug/l 98
23) tert-Butyl Alcohol	4.78	59	291694	539.362	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	2490427	101.001	ug/l 96
25) Chloroform	7.37	83	1775285	98.395	ug/l 99
26) Cyclohexane	7.66	56	1745639	100.762	ug/l # 97
29) 1,1-Dichloropropene	7.80	75	1447979	101.646	ug/l 99
30) 2-Butanone	6.83	43	1836376	522.162	ug/l 98
31) 2,2-Dichloropropane	6.83	77	1408912	102.710	ug/l 98
32) 1,1,1-Trichloroethane	7.57	97	1515514	101.774	ug/l 97
33) Carbon Tetrachloride	7.78	117	1347978	104.517	ug/l 100
34) Benzene	8.04	78	4281942	98.964	ug/l # 91
35) Methacrylonitrile	7.17	41	452767	97.137	ug/l 97
36) 1,2-Dichloroethane	8.13	62	1240389	98.264	ug/l 98
37) Trichloroethene	8.83	130	1169040	100.139	ug/l 95
38) Methylcyclohexane	9.08	83	1692572	101.849	ug/l 97
39) 1,2-Dichloropropane	9.12	63	1124480	100.068	ug/l 97
40) Dibromomethane	9.21	93	638673	100.301	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.40	83	1378944	101.460	ug/l	99
42) Vinyl Acetate	5.90	43	10077848	527.873	ug/l	97
43) Ethyl Acetate	6.93	43	815876	104.023	ug/l #	65
44) Isopropyl Acetate	8.16	43	1528902	104.780	ug/l #	79
45) 1,4-Dioxane	9.20	88	191313	2164.177	ug/l	92
46) Methyl methacrylate	9.20	41	777197	106.340	ug/l	95
47) n-amyl Acetate	12.07	43	1387558	111.293	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	1455188	108.206	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	1684453	104.390	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	910087	99.555	ug/l	100
51) Ethyl methacrylate	10.43	69	1246683	108.773	ug/l	93
52) 1,3-Dichloropropane	10.71	76	1584372	101.188	ug/l	99
53) Dibromochloromethane	10.90	129	1053228	105.082	ug/l	97
54) 1,2-Dibromoethane	11.01	107	931874	102.639	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	3523405	528.638	ug/l	99
56) Bromoform	12.13	173	731006	108.853	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	4101797	508.136	ug/l	97
59) 2-Hexanone	10.75	43	2831397	508.793	ug/l	97
61) Tetrachloroethene	10.63	164	1217482	94.280	ug/l	97
62) Toluene	10.16	91	4601932	97.517	ug/l	99
64) Chlorobenzene	11.43	112	2924991	99.881	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	1030236	100.786	ug/l	100
66) Ethyl Benzene	11.51	91	5093531	101.223	ug/l	99
67) m/p-Xylenes	11.62	106	3825177	200.370	ug/l	99
68) o-Xylene	11.95	106	1860817	100.955	ug/l	98
69) Styrene	11.96	104	3099231	104.512	ug/l	99
70) Isopropylbenzene	12.25	105	4882122	100.536	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	1042526	102.353	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	932348m	107.340	ug/l	
73) Bromobenzene	12.53	156	1276106	103.243	ug/l	94
74) n-propylbenzene	12.59	91	5619530	103.524	ug/l	98
75) 2-Chlorotoluene	12.68	91	3307292	102.147	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	3941478	103.355	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	341794	116.043	ug/l	91
78) 4-Chlorotoluene	12.77	91	3400324	104.027	ug/l	99
79) tert-butylbenzene	12.99	119	3410103	101.990	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	3988900	104.633	ug/l	98
81) sec-Butylbenzene	13.17	105	4571057	103.805	ug/l	100
82) p-Isopropyltoluene	13.29	119	4044010	107.394	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	2235044	106.706	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	2209780	109.038	ug/l	99
85) n-Butylbenzene	13.62	91	3403594	113.274	ug/l	98
86) Hexachloroethane	13.88	117	667093	114.401	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	2078475	105.524	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	155589	109.319	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	1068364	121.349	ug/l	99
90) Hexachlorobutadiene	15.01	225	574372	96.100	ug/l	99
91) Naphthalene	15.13	128	2377238	131.767	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	963780	123.112	ug/l	98

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

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