

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072419\
 Data File : VN056890.D
 Acq On : 23 Jul 2019 20:40
 Operator : JC/SP
 Sample : VSTDICC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 2:20:09 PM

Quant Time: Jul 24 03:35:37 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 24 02:31:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	61406	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	344063	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	312213	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	121549	29.42	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.07%
60) 4-Bromofluorobenzene	12.40	95	148736	31.36	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	104.53%
63) Toluene-d8	10.09	98	425976	29.65	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.83%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	575246	164.866 ug/l	97
3) Chloromethane	2.06	50	684521	148.885 ug/l	100
4) Vinyl Chloride	2.18	62	669460	148.556 ug/l	100
5) Bromomethane	2.54	94	393338	138.812 ug/l	100
6) Chloroethane	2.69	64	363651	141.701 ug/l	99
7) Trichlorofluoromethane	3.01	101	797415	139.878 ug/l	99
8) Diethyl Ether	3.40	74	301894	130.310 ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	495004	139.049 ug/l	99
10) 1,1-Dichloroethene	3.72	96	506578	143.156 ug/l	99
11) Methyl Iodide	3.94	142	793256	165.526 ug/l	98
12) Methyl Acetate	4.33	43	498763	106.134 ug/l	96
13) Acrolein	3.60	56	338880	912.180 ug/l	98
14) Acrylonitrile	4.99	53	1188929	587.699 ug/l	100
15) Acetone	3.82	58	296421	460.359 ug/l	93
16) Carbon Disulfide	4.04	76	1430831	152.683 ug/l	99
17) Allyl chloride	4.31	41	858884	139.818 ug/l	97
18) Methylene Chloride	4.54	84	576272	138.771 ug/l	99
19) trans-1,2-Dichloroethene	5.03	96	534826	141.975 ug/l	95
20) Diisopropyl ether	5.96	45	1698214	137.904 ug/l	94
21) 1,1-Dichloroethane	5.84	63	970398	137.584 ug/l	99
22) cis-1,2-Dichloroethene	6.82	96	617860	139.682 ug/l	99
23) tert-Butyl Alcohol	4.81	59	395981	555.996 ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	1539504	137.737 ug/l	97
25) Chloroform	7.37	83	953549	139.296 ug/l	98
26) Cyclohexane	7.65	56	935485	144.225 ug/l	# 100
29) 1,1-Dichloropropene	7.79	75	750372	141.859 ug/l	98
30) 2-Butanone	6.84	43	1462931	509.387 ug/l	100
31) 2,2-Dichloropropane	6.82	77	680567	133.302 ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	807097	141.796 ug/l	99
33) Carbon Tetrachloride	7.77	117	723245	147.748 ug/l	99
34) Benzene	8.04	78	2263300	138.117 ug/l	# 91
35) Methacrylonitrile	7.17	41	312996	130.195 ug/l	97
36) 1,2-Dichloroethane	8.12	62	697637	133.375 ug/l	99
37) Trichloroethene	8.83	130	615798	139.033 ug/l	97
38) Methylcyclohexane	9.08	83	961898	144.336 ug/l	99
39) 1,2-Dichloropropane	9.12	63	610294	139.074 ug/l	100
40) Dibromomethane	9.21	93	372240	133.788 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	746307	144.693	ug/l	97
42) Vinyl Acetate	5.90	43	6731588	667.465	ug/l	100
43) Ethyl Acetate	6.93	43	608478	114.274	ug/l	98
44) Isopropyl Acetate	8.17	43	1026577	121.003	ug/l #	86
45) 1,4-Dioxane	9.20	88	191443	2284.881	ug/l	95
46) Methyl methacrylate	9.20	41	513137	126.220	ug/l	98
47) n-amyl Acetate	12.07	43	907618	131.903	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	824093	146.472	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	933987	146.270	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	535604	131.537	ug/l	99
51) Ethyl methacrylate	10.43	69	826720	133.976	ug/l	98
52) 1,3-Dichloropropane	10.71	76	912866	135.049	ug/l	100
53) Dibromochloromethane	10.90	129	606748	147.269	ug/l	99
54) 1,2-Dibromoethane	11.00	107	567329	135.155	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	1794461	611.161	ug/l	99
56) Bromoform	12.12	173	435007	144.158	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	2993963	539.698	ug/l	98
59) 2-Hexanone	10.75	43	2133197	520.787	ug/l	99
61) Tetrachloroethene	10.63	164	596168	133.821	ug/l	99
62) Toluene	10.15	91	2444493	136.090	ug/l	100
64) Chlorobenzene	11.43	112	1529435	139.760	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	573153	141.615	ug/l	99
66) Ethyl Benzene	11.51	91	2720692	140.984	ug/l	100
67) m/p-Xylenes	11.62	106	2035880	280.338	ug/l	99
68) o-Xylene	11.95	106	986258	138.384	ug/l	100
69) Styrene	11.96	104	1697267	144.555	ug/l	100
70) Isopropylbenzene	12.25	105	2630623	141.128	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	712441	119.890	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	608980m	120.455	ug/l	
73) Bromobenzene	12.53	156	694604	142.994	ug/l	100
74) n-propylbenzene	12.59	91	3015312	145.229	ug/l	100
75) 2-Chlorotoluene	12.67	91	1758560	139.626	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	2209065	139.875	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	230323	137.059	ug/l	91
78) 4-Chlorotoluene	12.77	91	1786273	147.059	ug/l	100
79) tert-butylbenzene	12.99	119	1909472	141.474	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	2186731	139.377	ug/l	98
81) sec-Butylbenzene	13.17	105	2533169	142.452	ug/l	100
82) p-Isopropyltoluene	13.29	119	2331761	144.651	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	1166789	145.903	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	1143879	149.934	ug/l	99
85) n-Butylbenzene	13.61	91	1981230	150.444	ug/l	98
86) Hexachloroethane	13.87	117	404387	157.081	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	1136711	140.967	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.26	75	123830	122.189	ug/l	93
89) 1,2,4-Trichlorobenzene	14.90	180	694619	164.817	ug/l	99
90) Hexachlorobutadiene	15.01	225	391573	138.581	ug/l	98
91) Naphthalene	15.13	128	1784050	156.318	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	708468	158.419	ug/l	99

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

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