

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072419\
 Data File : VN056889.D
 Acq On : 23 Jul 2019 20:16
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 2:20:04 PM

Quant Time: Jul 24 03:33:52 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	7.20	128	60926	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	330583	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	299821	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	119338	29.11	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.03%
60) 4-Bromofluorobenzene	12.40	95	140703	30.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.97%
63) Toluene-d8	10.09	98	411349	29.82	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	373366	107.850 ug/l	97
3) Chloromethane	2.06	50	438306	96.084 ug/l	99
4) Vinyl Chloride	2.18	62	431650	96.540 ug/l	100
5) Bromomethane	2.55	94	252091	89.666 ug/l	98
6) Chloroethane	2.69	64	235258	92.393 ug/l	98
7) Trichlorofluoromethane	3.01	101	515504	91.139 ug/l	100
8) Diethyl Ether	3.41	74	192675	83.822 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	321884	91.131 ug/l	99
10) 1,1-Dichloroethene	3.73	96	324836	92.520 ug/l	98
11) Methyl Iodide	3.94	142	511436	107.561 ug/l	100
12) Methyl Acetate	4.33	43	329047	70.571 ug/l	96
13) Acrolein	3.60	56	223823	607.222 ug/l	99
14) Acrylonitrile	4.99	53	774603	385.910 ug/l	100
15) Acetone	3.82	58	196848	308.125 ug/l	94
16) Carbon Disulfide	4.04	76	903502	97.172 ug/l	99
17) Allyl chloride	4.32	41	552855	90.708 ug/l	98
18) Methylene Chloride	4.54	84	372112	90.314 ug/l	99
19) trans-1,2-Dichloroethene	5.03	96	345747	92.505 ug/l	96
20) Diisopropyl ether	5.96	45	1095826	89.688 ug/l	96
21) 1,1-Dichloroethane	5.85	63	636122	90.901 ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	395686	90.159 ug/l	99
23) tert-Butyl Alcohol	4.81	59	256438	362.901 ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	994516	89.679 ug/l	97
25) Chloroform	7.37	83	616406	90.755 ug/l	99
26) Cyclohexane	7.65	56	605031	94.013 ug/l	# 99
29) 1,1-Dichloropropene	7.79	75	480171	94.479 ug/l	98
30) 2-Butanone	6.84	43	956703	346.704 ug/l	99
31) 2,2-Dichloropropane	6.82	77	437671	89.222 ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	521342	95.328 ug/l	98
33) Carbon Tetrachloride	7.77	117	464376	98.733 ug/l	98
34) Benzene	8.04	78	1461105	92.799 ug/l	# 91
35) Methacrylonitrile	7.18	41	200633	86.859 ug/l	99
36) 1,2-Dichloroethane	8.12	62	456099	90.753 ug/l	99
37) Trichloroethene	8.83	130	393769	92.529 ug/l	97
38) Methylcyclohexane	9.08	83	615574	96.135 ug/l	99
39) 1,2-Dichloropropane	9.12	63	390342	92.578 ug/l	99
40) Dibromomethane	9.21	93	241453	90.320 ug/l	99

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

41) Bromodichloromethane	9.40	83	473669	95.579	ug/l	98
42) Vinyl Acetate	5.90	43	4358575	449.793	ug/l	100
43) Ethyl Acetate	6.93	43	391418	76.507	ug/l	94
44) Isopropyl Acetate	8.17	43	655623	80.430	ug/l #	88
45) 1,4-Dioxane	9.20	88	124217	1542.988	ug/l	94
46) Methyl methacrylate	9.20	41	324568	83.092	ug/l	99
47) n-amyl Acetate	12.07	43	567569	85.848	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	514132	95.107	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	588720	95.958	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	340729	87.090	ug/l	98
51) Ethyl methacrylate	10.43	69	530195	89.426	ug/l	99
52) 1,3-Dichloropropane	10.71	76	588077	90.548	ug/l	100
53) Dibromochloromethane	10.90	129	381978	96.494	ug/l	99
54) 1,2-Dibromoethane	11.00	107	363997	90.251	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	1154207	409.131	ug/l	99
56) Bromoform	12.12	173	273593	94.364	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	1953103	366.622	ug/l	98
59) 2-Hexanone	10.75	43	1371342	348.629	ug/l	99
61) Tetrachloroethene	10.63	164	395950	92.552	ug/l	98
62) Toluene	10.15	91	1578920	91.535	ug/l	100
64) Chlorobenzene	11.43	112	968904	92.198	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.51	131	363485	93.522	ug/l	99
66) Ethyl Benzene	11.51	91	1728845	93.290	ug/l	100
67) m/p-Xylenes	11.62	106	1289918	184.961	ug/l	99
68) o-Xylene	11.95	106	626143	91.487	ug/l	99
69) Styrene	11.96	104	1068853	94.796	ug/l	100
70) Isopropylbenzene	12.25	105	1662233	92.861	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	453196	79.416	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	395514m	81.466	ug/l	
73) Bromobenzene	12.52	156	436939	93.668	ug/l	100
74) n-propylbenzene	12.59	91	1897286	95.158	ug/l	99
75) 2-Chlorotoluene	12.67	91	1111012	91.858	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	1401846	92.431	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	141135	87.457	ug/l	92
78) 4-Chlorotoluene	12.77	91	1114255	95.525	ug/l	100
79) tert-butylbenzene	12.99	119	1214265	93.684	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	1390229	92.272	ug/l	98
81) sec-Butylbenzene	13.17	105	1607828	94.152	ug/l	100
82) p-Isopropyltoluene	13.28	119	1470194	94.973	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	729265	94.961	ug/l	100
84) 1,4-Dichlorobenzene	13.36	146	708858	96.754	ug/l	99
85) n-Butylbenzene	13.61	91	1229896	97.252	ug/l	98
86) Hexachloroethane	13.87	117	250917	101.496	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	706411	91.225	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.26	75	77691	79.830	ug/l	92
89) 1,2,4-Trichlorobenzene	14.90	180	413762	102.234	ug/l	98
90) Hexachlorobutadiene	15.00	225	246855	90.975	ug/l	99
91) Naphthalene	15.13	128	1076007	98.176	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	424151	98.764	ug/l	99

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

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