

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082319\
 Data File : VN057465.D
 Acq On : 23 Aug 2019 10:28
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 8/26/2019 1:12:01 PM

Quant Time: Aug 23 23:08:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 23 22:53:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	75988	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	414341	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	391115	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	214454	39.68	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	132.27%
60) 4-Bromofluorobenzene	12.40	95	208614	35.63	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	118.77%
63) Toluene-d8	10.08	98	576290	31.85	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	106.17%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	395445	101.469	ug/l 99
3) Chloromethane	2.04	50	573513	118.805	ug/l 100
4) Vinyl Chloride	2.17	62	716824	142.017	ug/l 99
5) Bromomethane	2.54	94	463726	125.485	ug/l 98
6) Chloroethane	2.68	64	471737	138.302	ug/l 98
7) Trichlorofluoromethane	3.00	101	1140713	142.350	ug/l 93
8) Diethyl Ether	3.39	74	422338	140.917	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.73	101	633324	134.861	ug/l 99
10) 1,1-Dichloroethene	3.71	96	615992	134.002	ug/l 95
11) Methyl Iodide	3.92	142	513267	78.337	ug/l 99
12) Methyl Acetate	4.30	43	576917	114.117	ug/l 97
13) Acrolein	3.58	56	397906	749.162	ug/l 99
14) Acrylonitrile	4.96	53	1129898	576.598	ug/l 100
15) Acetone	3.80	58	456767	671.604	ug/l 95
16) Carbon Disulfide	4.02	76	1128035	99.792	ug/l 99
17) Allyl chloride	4.29	41	883446	133.730	ug/l 96
18) Methylene Chloride	4.52	84	457976	97.278	ug/l 97
19) trans-1,2-Dichloroethene	5.01	96	434549	97.933	ug/l 98
20) Diisopropyl ether	5.93	45	1841507	133.215	ug/l 95
21) 1,1-Dichloroethane	5.82	63	952831	116.846	ug/l 97
22) cis-1,2-Dichloroethene	6.81	96	512761	98.212	ug/l 97
23) tert-Butyl Alcohol	4.79	59	397751	566.077	ug/l 100
24) Methyl tert-Butyl Ether	5.02	73	1467508	111.859	ug/l 100
25) Chloroform	7.36	83	929755	110.832	ug/l 99
26) Cyclohexane	7.63	56	839820	122.309	ug/l # 100
29) 1,1-Dichloropropene	7.78	75	715052	116.001	ug/l 99
30) 2-Butanone	6.82	43	1676341	651.427	ug/l 98
31) 2,2-Dichloropropane	6.80	77	797470	116.849	ug/l 100
32) 1,1,1-Trichloroethane	7.55	97	804435	111.451	ug/l 98
33) Carbon Tetrachloride	7.76	117	701899	110.596	ug/l 99
34) Benzene	8.03	78	2091492	112.379	ug/l # 90
35) Methacrylonitrile	7.16	41	367186	109.558	ug/l 95
36) 1,2-Dichloroethane	8.11	62	822384	130.185	ug/l # 89
37) Trichloroethene	8.82	130	475132	91.856	ug/l 95
38) Methylcyclohexane	9.07	83	808131	112.375	ug/l 98
39) 1,2-Dichloropropane	9.11	63	593963	121.959	ug/l 91
40) Dibromomethane	9.20	93	370071	116.667	ug/l 99

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

41) Bromodichloromethane	9.39	83	794295	122.865	ug/l #	98
42) Vinyl Acetate	5.87	43	7725930	708.750	ug/l	99
43) Ethyl Acetate	6.91	43	702776	135.595	ug/l	99
44) Isopropyl Acetate	8.16	43	1287490	138.719	ug/l #	93
45) 1,4-Dioxane	9.20	88	155275	1955.470	ug/l	96
46) Methyl methacrylate	9.19	41	616401	146.085	ug/l	99
47) n-amyl Acetate	12.07	43	1088223	155.764	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	851027	122.598	ug/l	99
49) cis-1,3-Dichloropropene	9.83	75	931763	120.584	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	492606	108.673	ug/l	98
51) Ethyl methacrylate	10.43	69	837007	124.143	ug/l	98
52) 1,3-Dichloropropane	10.70	76	894630	118.070	ug/l	99
53) Dibromochloromethane	10.90	129	546327	106.656	ug/l	98
54) 1,2-Dibromoethane	11.00	107	508447	107.942	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	1132376	718.785	ug/l	99
56) Bromoform	12.13	173	335257	89.936	ug/l #	98
58) 4-Methyl-2-Pentanone	9.98	43	3647977	648.435	ug/l	100
59) 2-Hexanone	10.75	43	2553349	637.783	ug/l	99
61) Tetrachloroethene	10.63	164	420276	77.556	ug/l	96
62) Toluene	10.15	91	2278128	103.993	ug/l	100
64) Chlorobenzene	11.43	112	1277679	95.569	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	474407	92.121	ug/l	99
66) Ethyl Benzene	11.51	91	2487511	104.453	ug/l	100
67) m/p-Xylenes	11.62	106	1757360	200.646	ug/l	99
68) o-Xylene	11.95	106	857610	99.536	ug/l	98
69) Styrene	11.96	104	1457309	106.045	ug/l	99
70) Isopropylbenzene	12.25	105	2346401	102.045	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	679139	106.625	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	591497m	108.332	ug/l	
73) Bromobenzene	12.53	156	488366	83.756	ug/l	99
74) n-propylbenzene	12.59	91	2781160	114.075	ug/l	99
75) 2-Chlorotoluene	12.67	91	1614824	107.999	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	1945786	102.027	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	239650	114.949	ug/l	92
78) 4-Chlorotoluene	12.77	91	1612897	114.988	ug/l	99
79) tert-butylbenzene	12.99	119	1617273	95.901	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	1870427	103.927	ug/l	99
81) sec-Butylbenzene	13.17	105	2212055	104.576	ug/l	100
82) p-Isopropyltoluene	13.29	119	1876521	100.375	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	813280	94.514	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	814764	100.406	ug/l	99
85) n-Butylbenzene	13.62	91	1715433	122.084	ug/l	99
86) Hexachloroethane	13.88	117	375108	103.242	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	806578	98.577	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	129293	143.825	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	359443	122.454	ug/l	99
90) Hexachlorobutadiene	15.01	225	214476	61.826	ug/l	98
91) Naphthalene	15.13	128	1125136	161.516	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	360422	126.565	ug/l	98

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

