

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030119\
 Data File : VN054019.D
 Acq On : 1 Mar 2019 10:24
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 3/6/2019 10:23:23 AM

Quant Time: Mar 01 10:46:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 01 10:37:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	122857	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	681552	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	603704	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	257338	29.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.83%
60) 4-Bromofluorobenzene	12.40	95	281075	41.25	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	137.50%
63) Toluene-d8	10.09	98	855539	29.32	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	656022	93.236	ug/l 100
3) Chloromethane	2.06	50	903680	97.229	ug/l 98
4) Vinyl Chloride	2.19	62	898132	96.307	ug/l 98
5) Bromomethane	2.57	94	545266	94.773	ug/l 98
6) Chloroethane	2.71	64	531397	96.559	ug/l 99
7) Trichlorofluoromethane	3.02	101	1081877	95.279	ug/l 100
8) Diethyl Ether	3.41	74	425498	100.776	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	678191	92.495	ug/l 98
10) 1,1-Dichloroethene	3.74	96	663636	97.486	ug/l 97
11) Methyl Iodide	3.95	142	1053042	106.060	ug/l 98
12) Methyl Acetate	4.32	43	564252	98.859	ug/l 98
13) Acrolein	3.60	56	354867	691.755	ug/l 100
14) Acrylonitrile	4.98	53	1391306	508.818	ug/l 98
15) Acetone	3.81	58	370362	455.352	ug/l 96
16) Carbon Disulfide	4.06	76	2163540	98.523	ug/l 100
17) Allyl chloride	4.32	41	1174724	97.994	ug/l 99
18) Methylene Chloride	4.55	84	760111	96.322	ug/l 99
19) trans-1,2-Dichloroethene	5.04	96	720855	97.523	ug/l 98
20) Diisopropyl ether	5.95	45	2493236	105.062	ug/l 99
21) 1,1-Dichloroethane	5.85	63	1391770	97.837	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	817701	99.983	ug/l 97
23) tert-Butyl Alcohol	4.77	59	248704	512.470	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	1888565	103.999	ug/l 100
25) Chloroform	7.37	83	1327210	96.469	ug/l 100
26) Cyclohexane	7.65	56	1315101	102.937	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	1065908	100.308	ug/l 99
30) 2-Butanone	6.83	43	1682448	499.744	ug/l 99
31) 2,2-Dichloropropane	6.82	77	1030788	97.738	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	1123273	97.643	ug/l 98
33) Carbon Tetrachloride	7.77	117	990287	97.402	ug/l 100
34) Benzene	8.04	78	3147461	99.205	ug/l # 93
35) Methacrylonitrile	7.17	41	379558	100.759	ug/l 98
36) 1,2-Dichloroethane	8.12	62	980622	95.408	ug/l 100
37) Trichloroethene	8.83	130	805512	96.975	ug/l 100
38) Methylcyclohexane	9.08	83	1295440	104.352	ug/l 98
39) 1,2-Dichloropropane	9.12	63	846492	97.444	ug/l 98
40) Dibromomethane	9.21	93	487259	97.300	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	1036405	98.031	ug/l	99
42) Vinyl Acetate	5.89	43	9137373	534.914	ug/l	99
43) Ethyl Acetate	6.92	43	727586	104.294	ug/l #	67
44) Isopropyl Acetate	8.16	43	1268489	103.749	ug/l	98
45) 1,4-Dioxane	9.20	88	150380	2305.655	ug/l	96
46) Methyl methacrylate	9.20	41	633817	109.773	ug/l	98
47) n-amyl Acetate	12.07	43	994148	114.802	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	1109465	107.044	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	1267707	103.172	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	676703	96.318	ug/l	99
51) Ethyl methacrylate	10.43	69	913496	112.297	ug/l	99
52) 1,3-Dichloropropane	10.71	76	1201982	100.259	ug/l	99
53) Dibromochloromethane	10.90	129	771597	101.264	ug/l	97
54) 1,2-Dibromoethane	11.00	107	670005	101.550	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	2106962	561.658	ug/l	99
56) Bromoform	12.13	173	525335	105.299	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	3496001	518.531	ug/l	98
59) 2-Hexanone	10.75	43	2289508	522.168	ug/l	99
61) Tetrachloroethene	10.63	164	776701	90.464	ug/l	96
62) Toluene	10.16	91	3308309	97.636	ug/l	100
64) Chlorobenzene	11.43	112	2022094	98.286	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	740095	97.930	ug/l	100
66) Ethyl Benzene	11.51	91	3564430	101.795	ug/l	99
67) m/p-Xylenes	11.62	106	2661553	201.399	ug/l	100
68) o-Xylene	11.95	106	1293436	101.104	ug/l	100
69) Styrene	11.96	104	2105229	105.030	ug/l	99
70) Isopropylbenzene	12.25	105	3364830	133.304	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	833602	133.803	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	632573m	99.738	ug/l	
73) Bromobenzene	12.53	156	844726	99.535	ug/l	99
74) n-propylbenzene	12.59	91	4043907	135.776	ug/l	100
75) 2-Chlorotoluene	12.67	91	2324985	131.857	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	2860408	100.764	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	236891	150.177	ug/l	96
78) 4-Chlorotoluene	12.77	91	2362997	101.686	ug/l	99
79) tert-butylbenzene	12.99	119	2518332	101.236	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	2885711	103.084	ug/l	100
81) sec-Butylbenzene	13.17	105	3398566	98.874	ug/l	100
82) p-Isopropyltoluene	13.29	119	2952359	102.160	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	1513716	102.482	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	1489944	107.566	ug/l	99
85) n-Butylbenzene	13.61	91	2725422	112.693	ug/l	100
86) Hexachloroethane	13.87	117	551517	102.467	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	1454065	100.094	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	117096	98.092	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	846916	130.791	ug/l	99
90) Hexachlorobutadiene	15.01	225	519442	93.786	ug/l	99
91) Naphthalene	15.13	128	1752178	142.894	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	805663	121.989	ug/l	98

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

