

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090319\
 Data File : VN057665.D
 Acq On : 3 Sep 2019 15:58
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 9/5/2019 3:21:07 PM

Quant Time: Sep 04 02:03:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N090319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 04 01:42:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	58842	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	366487	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	328036	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	189223	38.97	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	129.90%
60) 4-Bromofluorobenzene	12.40	95	180666	35.62	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	118.73%
63) Toluene-d8	10.08	98	470555	30.66	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.84	85	443246	135.275	ug/l 100
3) Chloromethane	2.05	50	455492	148.089	ug/l 100
4) Vinyl Chloride	2.18	62	374278	91.178	ug/l 94
5) Bromomethane	2.52	94	217515m	60.744	ug/l
6) Chloroethane	2.68	64	265362	94.831	ug/l 96
7) Trichlorofluoromethane	3.00	101	715250	81.921	ug/l 96
8) Diethyl Ether	3.40	74	232969	82.181	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.75	101	358462	70.306	ug/l 99
10) 1,1-Dichloroethene	3.73	96	333671	70.597	ug/l 96
11) Methyl Iodide	3.94	142	499968	63.024	ug/l 99
12) Methyl Acetate	4.30	43	491005	152.742	ug/l 96
13) Acrolein	3.59	56	139617	407.295	ug/l 92
14) Acrylonitrile	4.96	53	939559	769.038	ug/l 99
15) Acetone	3.80	58	267327	482.742	ug/l 97
16) Carbon Disulfide	4.04	76	880088	150.038	ug/l 100
17) Allyl chloride	4.31	41	767773	181.750	ug/l 98
18) Methylene Chloride	4.54	84	409829	129.586	ug/l 94
19) trans-1,2-Dichloroethene	5.02	96	357318	117.077	ug/l 97
20) Diisopropyl ether	5.93	45	1560691	155.184	ug/l 94
21) 1,1-Dichloroethane	5.83	63	788971	131.121	ug/l 99
22) cis-1,2-Dichloroethene	6.81	96	429405	106.538	ug/l 96
23) tert-Butyl Alcohol	4.75	59	349134	786.252	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	1344643	132.036	ug/l 99
25) Chloroform	7.36	83	830539	117.569	ug/l 99
26) Cyclohexane	7.64	56	670760	133.568	ug/l # 97
29) 1,1-Dichloropropene	7.78	75	579718	113.810	ug/l 98
30) 2-Butanone	6.82	43	1422765	793.439	ug/l # 97
31) 2,2-Dichloropropane	6.81	77	743501	121.855	ug/l # 77
32) 1,1,1-Trichloroethane	7.56	97	745364	111.529	ug/l 99
33) Carbon Tetrachloride	7.76	117	609393	108.375	ug/l 94
34) Benzene	8.03	78	1674981	110.829	ug/l # 86
35) Methacrylonitrile	7.15	41	253467	147.749	ug/l 99
36) 1,2-Dichloroethane	8.11	62	752377	130.683	ug/l # 100
37) Trichloroethene	8.83	130	401381	95.377	ug/l 96
38) Methylcyclohexane	9.07	83	635801	105.278	ug/l 98
39) 1,2-Dichloropropane	9.11	63	454121	119.407	ug/l 95
40) Dibromomethane	9.20	93	300966	107.532	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	674424	116.556	ug/l	97
42) Vinyl Acetate	5.88	43	6120014	760.675	ug/l	99
43) Ethyl Acetate	6.91	43	597925m	171.694	ug/l	
44) Isopropyl Acetate	8.15	43	1091204	157.224	ug/l	97
45) 1,4-Dioxane	9.19	88	138809	2486.206	ug/l	96
46) Methyl methacrylate	9.19	41	538411	167.305	ug/l	97
47) n-amyl Acetate	12.07	43	905404	163.771	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	722066	123.520	ug/l	97
49) cis-1,3-Dichloropropene	9.83	75	754764	119.682	ug/l	94
50) 1,1,2-Trichloroethane	10.56	97	403223	100.865	ug/l	99
51) Ethyl methacrylate	10.43	69	687288	127.143	ug/l	98
52) 1,3-Dichloropropane	10.71	76	721206	113.354	ug/l	100
53) Dibromochloromethane	10.90	129	460343	104.327	ug/l	98
54) 1,2-Dibromoethane	11.00	107	413996	100.824	ug/l	98
55) 2-Chloroethyl vinyl ether	9.69	63	1117149	800.014	ug/l	99
56) Bromoform	12.13	173	300040	105.028	ug/l	98
58) 4-Methyl-2-Pentanone	9.98	43	2916271	775.635	ug/l	98
59) 2-Hexanone	10.75	43	2155192	829.566	ug/l	99
61) Tetrachloroethene	10.63	164	360487	87.668	ug/l	97
62) Toluene	10.15	91	1834384	109.771	ug/l	100
64) Chlorobenzene	11.43	112	1108109	104.788	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.51	131	414689	99.635	ug/l	98
66) Ethyl Benzene	11.51	91	2106281	116.612	ug/l	96
67) m/p-Xylenes	11.62	106	1506906	213.196	ug/l	89
68) o-Xylene	11.95	106	734723	103.295	ug/l	96
69) Styrene	11.96	104	1273017	113.581	ug/l	97
70) Isopropylbenzene	12.25	105	2050508	114.718	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.51	83	539928	111.711	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	499960m	120.465	ug/l	
73) Bromobenzene	12.53	156	450302	100.732	ug/l	96
74) n-propylbenzene	12.59	91	2337732	126.230	ug/l	98
75) 2-Chlorotoluene	12.67	91	1459943	121.073	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	1732438	115.514	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	179973	136.722	ug/l	84
78) 4-Chlorotoluene	12.77	91	1435192	125.664	ug/l	99
79) tert-butylbenzene	12.99	119	1471758	107.990	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	1654215	117.761	ug/l	99
81) sec-Butylbenzene	13.17	105	1948975	117.578	ug/l	99
82) p-Isopropyltoluene	13.29	119	1679542	115.295	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	721987	101.071	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	695440	101.895	ug/l	99
85) n-Butylbenzene	13.62	91	1496108	126.648	ug/l	98
86) Hexachloroethane	13.88	117	315177	111.513	ug/l	92
87) 1,2-Dichlorobenzene	13.66	146	669319	98.660	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	95456	137.875	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	282994	114.189	ug/l	97
90) Hexachlorobutadiene	15.01	225	234968	104.240	ug/l	98
91) Naphthalene	15.13	128	754926	111.726	ug/l	98
92) 1,2,3-Trichlorobenzene	15.30	180	272582	111.393	ug/l	97

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

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