

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052219\
 Data File : VN055727.D
 Acq On : 22 May 2019 18:37
 Operator : JC/SP
 Sample : VSTDIC150
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 5/23/2019 12:31:26 PM

Quant Time: May 23 05:52:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N052219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 23 05:31:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	55263	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	317119	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	283902	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	110683	26.28	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	87.60%
60) 4-Bromofluorobenzene	12.40	95	138920	31.68	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	105.60%
63) Toluene-d8	10.09	98	378689	28.26	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	94.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	349512	120.557	ug/l 99
3) Chloromethane	2.06	50	508909	124.170	ug/l 99
4) Vinyl Chloride	2.18	62	522265	150.863	ug/l 100
5) Bromomethane	2.52	94	274606	139.198	ug/l 100
6) Chloroethane	2.67	64	294562	150.318	ug/l 96
7) Trichlorofluoromethane	3.00	101	663604	134.571	ug/l 99
8) Diethyl Ether	3.40	74	288743	141.020	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	410853	131.008	ug/l 99
10) 1,1-Dichloroethene	3.72	96	433599	145.048	ug/l 99
11) Methyl Iodide	3.94	142	681731	147.651	ug/l 99
12) Methyl Acetate	4.32	43	507234	121.446	ug/l 99
13) Acrolein	3.60	56	365454	1443.978	ug/l 100
14) Acrylonitrile	4.99	53	1242212	796.641	ug/l 100
15) Acetone	3.82	58	354246	884.691	ug/l 97
16) Carbon Disulfide	4.04	76	1277365	154.284	ug/l 99
17) Allyl chloride	4.31	41	793983	126.392	ug/l 98
18) Methylene Chloride	4.54	84	501632	137.822	ug/l 99
19) trans-1,2-Dichloroethene	5.03	96	473293	145.732	ug/l 99
20) Diisopropyl ether	5.96	45	1551825	124.058	ug/l 93
21) 1,1-Dichloroethane	5.84	63	865493	130.715	ug/l 99
22) cis-1,2-Dichloroethene	6.82	96	557689	147.309	ug/l 98
23) tert-Butyl Alcohol	4.82	59	530121	1222.870	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	1485551	150.948	ug/l 99
25) Chloroform	7.37	83	840749	133.956	ug/l 99
26) Cyclohexane	7.65	56	790252	135.075	ug/l # 98
29) 1,1-Dichloropropene	7.79	75	650281	132.251	ug/l 99
30) 2-Butanone	6.84	43	1715290	816.675	ug/l 100
31) 2,2-Dichloropropane	6.82	77	718024	147.577	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	750824	135.776	ug/l 100
33) Carbon Tetrachloride	7.77	117	667141	141.798	ug/l 99
34) Benzene	8.04	78	1982246	134.086	ug/l # 91
35) Methacrylonitrile	7.18	41	328383	146.257	ug/l 97
36) 1,2-Dichloroethane	8.12	62	643487	124.165	ug/l 100
37) Trichloroethene	8.83	130	556706	146.233	ug/l 99
38) Methylcyclohexane	9.08	83	814866	150.007	ug/l 99
39) 1,2-Dichloropropane	9.12	63	531740	127.405	ug/l 99
40) Dibromomethane	9.21	93	343828	140.136	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	695556	137.428	ug/l	99
42) Vinyl Acetate	5.89	43	6688735	688.959	ug/l	100
43) Ethyl Acetate	6.93	43	670177	154.687	ug/l #	100
44) Isopropyl Acetate	8.17	43	1139783	147.763	ug/l #	88
45) 1,4-Dioxane	9.20	88	212132	4590.760	ug/l	100
46) Methyl methacrylate	9.20	41	542455	148.991	ug/l	100
47) n-amyl Acetate	12.07	43	957719	165.873	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	812294	158.857	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	870428	148.777	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	499056	146.541	ug/l	99
51) Ethyl methacrylate	10.43	69	829136	170.105	ug/l	100
52) 1,3-Dichloropropane	10.71	76	834778	139.636	ug/l	99
53) Dibromochloromethane	10.90	129	604494	165.927	ug/l	98
54) 1,2-Dibromoethane	11.00	107	526824	156.256	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	1708315	1092.679	ug/l	99
56) Bromoform	12.13	173	497176	196.566	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	3318678	736.719	ug/l	99
59) 2-Hexanone	10.75	43	2405367	815.163	ug/l	100
61) Tetrachloroethene	10.63	164	544226	146.952	ug/l	98
62) Toluene	10.16	91	2183046	136.942	ug/l	99
64) Chlorobenzene	11.43	112	1352700	142.509	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	527480	146.148	ug/l	99
66) Ethyl Benzene	11.51	91	2400987	140.408	ug/l	100
67) m/p-Xylenes	11.62	106	1833313	291.932	ug/l	100
68) o-Xylene	11.95	106	894347	143.330	ug/l	99
69) Styrene	11.96	104	1555867	157.944	ug/l	99
70) Isopropylbenzene	12.25	105	2384042	145.192	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	719823	154.319	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	647188m	158.795	ug/l	
73) Bromobenzene	12.53	156	659076	164.664	ug/l	100
74) n-propylbenzene	12.59	91	2715751	149.124	ug/l	100
75) 2-Chlorotoluene	12.67	91	1602532	143.365	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	1968640	145.316	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	261370	218.026	ug/l	99
78) 4-Chlorotoluene	12.77	91	1581029	149.196	ug/l	99
79) tert-butylbenzene	12.99	119	1673215	142.787	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	1957315	149.693	ug/l	99
81) sec-Butylbenzene	13.17	105	2210792	144.111	ug/l	100
82) p-Isopropyltoluene	13.29	119	2075494	159.344	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	1085356	167.938	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	1072113	175.869	ug/l	99
85) n-Butylbenzene	13.61	91	1750910	174.617	ug/l	100
86) Hexachloroethane	13.87	117	392311	169.264	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	1056820	163.294	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	146170	199.101	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	714562	260.253	ug/l	99
90) Hexachlorobutadiene	15.01	225	404085	178.324	ug/l	98
91) Naphthalene	15.13	128	1886437	281.016	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	703359	243.455	ug/l	98

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

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