

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092518\
 Data File : VN051474.D
 Acq On : 25 Sep 2018 10:00
 Operator : MD\SY
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 10/1/2018 11:21:26 AM

Quant Time: Sep 26 01:42:42 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 26 01:19:41 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	106713	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	563895	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	509359	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	214050	29.14	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.13%
60) 4-Bromofluorobenzene	12.40	95	235362	31.47	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	104.90%
63) Toluene-d8	10.09	98	728819	29.84	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	225660	49.374	ug/l 98
3) Chloromethane	2.06	50	416662	53.023	ug/l 99
4) Vinyl Chloride	2.19	62	452346	53.948	ug/l 100
5) Bromomethane	2.57	94	280040	51.101	ug/l 89
6) Chloroethane	2.70	64	286044	55.345	ug/l 99
7) Trichlorofluoromethane	3.02	101	578249	53.130	ug/l 97
8) Diethyl Ether	3.41	74	174776	53.411	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	306376	55.435	ug/l # 41
10) 1,1-Dichloroethene	3.74	96	278368	55.294	ug/l 100
11) Methyl Iodide	3.95	142	444486	59.875	ug/l 97
12) Methyl Acetate	4.33	43	239316	54.085	ug/l 92
13) Acrolein	3.61	56	165410	280.348	ug/l 91
14) Acrylonitrile	4.99	53	513962	285.947	ug/l # 60
15) Acetone	3.82	58	119164	269.187	ug/l 87
16) Carbon Disulfide	4.05	76	857659	53.711	ug/l 98
17) Allyl chloride	4.33	41	498281	56.068	ug/l 97
18) Methylene Chloride	4.55	84	335936	55.876	ug/l 93
19) trans-1,2-Dichloroethene	5.04	96	306451	56.233	ug/l 96
20) Diisopropyl ether	5.95	45	1052885	59.668	ug/l # 84
21) 1,1-Dichloroethane	5.85	63	602284	56.663	ug/l 96
22) cis-1,2-Dichloroethene	6.83	96	343942	56.402	ug/l 98
23) tert-Butyl Alcohol	4.79	59	92109	272.129	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	783103	57.114	ug/l # 62
25) Chloroform	7.37	83	607680	57.319	ug/l 97
26) Cyclohexane	7.65	56	535536	59.180	ug/l # 97
29) 1,1-Dichloropropene	7.79	75	471576	59.394	ug/l 99
30) 2-Butanone	6.84	43	585360	285.416	ug/l # 99
31) 2,2-Dichloropropane	6.82	77	488254	57.651	ug/l # 80
32) 1,1,1-Trichloroethane	7.57	97	523909	57.800	ug/l 98
33) Carbon Tetrachloride	7.77	117	480763	57.805	ug/l 91
34) Benzene	8.04	78	1370295	58.131	ug/l # 63
35) Methacrylonitrile	7.19	41	169708m	57.422	ug/l
36) 1,2-Dichloroethane	8.13	62	442341	57.630	ug/l 99
37) Trichloroethene	8.84	130	359145	57.484	ug/l 99
38) Methylcyclohexane	9.08	83	538753	58.535	ug/l 94
39) 1,2-Dichloropropane	9.12	63	376075	58.647	ug/l 95
40) Dibromomethane	9.21	93	211646	57.989	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	468652	58.404	ug/l	93
42) Vinyl Acetate	5.90	43	3441137	301.744	ug/l	98
43) Ethyl Acetate	6.93	43	266817	62.527	ug/l	97
44) Isopropyl Acetate	8.17	43	480104	58.498	ug/l	100
45) 1,4-Dioxane	9.20	88	59979	1201.254	ug/l	90
46) Methyl methacrylate	9.20	41	243178	59.833	ug/l	97
47) n-amyl Acetate	12.07	43	406074	61.918	ug/l #	72
48) t-1,3-Dichloropropene	10.38	75	461448	57.911	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	548471	59.465	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	302034	57.878	ug/l	93
51) Ethyl methacrylate	10.43	69	375780	60.844	ug/l	97
52) 1,3-Dichloropropane	10.71	76	518693	58.917	ug/l	98
53) Dibromochloromethane	10.90	129	355307	59.191	ug/l	96
54) 1,2-Dibromoethane	11.00	107	294574	58.503	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	939371	308.019	ug/l	99
56) Bromoform	12.12	173	240283	59.375	ug/l	95
58) 4-Methyl-2-Pentanone	9.99	43	1336746	298.621	ug/l	95
59) 2-Hexanone	10.75	43	876567	297.527	ug/l	95
61) Tetrachloroethene	10.63	164	345683	58.334	ug/l	96
62) Toluene	10.16	91	1517900	58.211	ug/l	98
64) Chlorobenzene	11.43	112	927678	58.027	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	356933	57.746	ug/l	99
66) Ethyl Benzene	11.51	91	1608929	59.810	ug/l	98
67) m/p-Xylenes	11.62	106	1273116	122.934	ug/l	99
68) o-Xylene	11.95	106	597004	60.527	ug/l	95
69) Styrene	11.96	104	964121	61.879	ug/l	99
70) Isopropylbenzene	12.25	105	1620720	61.397	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	356094	57.307	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	316748m	64.640	ug/l	
73) Bromobenzene	12.53	156	393161	59.098	ug/l	96
74) n-propylbenzene	12.59	91	1867743	60.861	ug/l	98
75) 2-Chlorotoluene	12.67	91	1094381	60.428	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	1359568	62.419	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	100279	59.341	ug/l	97
78) 4-Chlorotoluene	12.77	91	1098028	61.128	ug/l	97
79) tert-butylbenzene	12.99	119	1162286	61.288	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	1376785	62.876	ug/l	99
81) sec-Butylbenzene	13.17	105	1611258	61.763	ug/l	99
82) p-Isopropyltoluene	13.29	119	1414440	62.807	ug/l	97
83) 1,3-Dichlorobenzene	13.28	146	701037	60.078	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	663341	60.528	ug/l	98
85) n-Butylbenzene	13.61	91	1159418	62.705	ug/l	97
86) Hexachloroethane	13.87	117	259912	57.596	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	668700	60.451	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	52569	57.321	ug/l #	90
89) 1,2,4-Trichlorobenzene	14.91	180	337322	61.220	ug/l	99
90) Hexachlorobutadiene	15.01	225	249760	58.487	ug/l	97
91) Naphthalene	15.13	128	600609	57.768	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	338856	60.920	ug/l	93

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

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