

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072419\
 Data File : VN056888.D
 Acq On : 23 Jul 2019 19:52
 Operator : JC/SP
 Sample : VSTDIC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 2:19:59 PM

Quant Time: Jul 24 03:31:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 24 02:31:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	60306	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	324153	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	288294	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	118297	29.16	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.20%
60) 4-Bromofluorobenzene	12.40	95	133158	30.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.37%
63) Toluene-d8	10.09	98	406963	30.68	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	191558	55.902	ug/l 99
3) Chloromethane	2.06	50	226041	50.061	ug/l 98
4) Vinyl Chloride	2.18	62	217509	49.147	ug/l 99
5) Bromomethane	2.55	94	128459	46.161	ug/l 98
6) Chloroethane	2.70	64	118260	46.922	ug/l 99
7) Trichlorofluoromethane	3.01	101	264640	47.268	ug/l 99
8) Diethyl Ether	3.41	74	96686	42.495	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.75	101	163870	46.871	ug/l 99
10) 1,1-Dichloroethene	3.72	96	164053	47.206	ug/l 98
11) Methyl Iodide	3.94	142	253981	53.964	ug/l 98
12) Methyl Acetate	4.33	43	177717	38.507	ug/l 100
13) Acrolein	3.60	56	111161	304.675	ug/l 98
14) Acrylonitrile	4.99	53	393250	197.933	ug/l 99
15) Acetone	3.82	58	101652	160.751	ug/l 96
16) Carbon Disulfide	4.04	76	445981	48.458	ug/l 99
17) Allyl chloride	4.32	41	273545	45.343	ug/l 98
18) Methylene Chloride	4.54	84	191182	46.878	ug/l 96
19) trans-1,2-Dichloroethene	5.03	96	175226	47.364	ug/l 97
20) Diisopropyl ether	5.95	45	565752	46.780	ug/l 97
21) 1,1-Dichloroethane	5.85	63	323751	46.739	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	201770	46.447	ug/l 99
23) tert-Butyl Alcohol	4.81	59	133519	190.893	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	496114	45.196	ug/l # 78
25) Chloroform	7.37	83	313747	46.669	ug/l 99
26) Cyclohexane	7.65	56	304349	47.778	ug/l # 100
29) 1,1-Dichloropropene	7.79	75	243390	48.840	ug/l 97
30) 2-Butanone	6.84	43	480998	177.769	ug/l 99
31) 2,2-Dichloropropane	6.82	77	220178	45.775	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	262102	48.876	ug/l 99
33) Carbon Tetrachloride	7.77	117	228401	49.525	ug/l 98
34) Benzene	8.04	78	745547	48.291	ug/l # 93
35) Methacrylonitrile	7.17	41	76117	33.607	ug/l 94
36) 1,2-Dichloroethane	8.12	62	231429	46.962	ug/l 100
37) Trichloroethene	8.83	130	200566	48.064	ug/l 100
38) Methylcyclohexane	9.08	83	307397	48.959	ug/l 98
39) 1,2-Dichloropropane	9.12	63	201165	48.657	ug/l 100
40) Dibromomethane	9.21	93	121376	46.304	ug/l 99

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

41) Bromodichloromethane	9.40	83	238694	49.120	ug/l	98
42) Vinyl Acetate	5.90	43	2187708	230.244	ug/l	100
43) Ethyl Acetate	6.93	43	201886	40.244	ug/l	98
44) Isopropyl Acetate	8.17	43	324222	40.563	ug/l #	88
45) 1,4-Dioxane	9.20	88	64596	818.310	ug/l	95
46) Methyl methacrylate	9.20	41	164891	43.051	ug/l	98
47) n-amyl Acetate	12.07	43	271230	41.839	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	246304	46.466	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	287738	47.830	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	175275	45.689	ug/l	99
51) Ethyl methacrylate	10.43	69	258944	44.541	ug/l	96
52) 1,3-Dichloropropane	10.71	76	296359	46.536	ug/l	99
53) Dibromochloromethane	10.90	129	184835	47.619	ug/l	100
54) 1,2-Dibromoethane	11.00	107	180257	45.580	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	567216	205.049	ug/l	99
56) Bromoform	12.13	173	130942	46.059	ug/l	99
58) 4-Methyl-2-Pentanone	9.98	43	996450	194.525	ug/l	99
59) 2-Hexanone	10.75	43	694653	183.659	ug/l	100
61) Tetrachloroethene	10.63	164	205963	50.068	ug/l	99
62) Toluene	10.15	91	799434	48.199	ug/l	99
64) Chlorobenzene	11.43	112	482588	47.758	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	181326	48.519	ug/l	98
66) Ethyl Benzene	11.51	91	859690	48.244	ug/l	100
67) m/p-Xylenes	11.62	106	643310	95.932	ug/l	100
68) o-Xylene	11.95	106	312626	47.505	ug/l	100
69) Styrene	11.96	104	520558	48.014	ug/l	100
70) Isopropylbenzene	12.25	105	825994	47.989	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	227820	41.518	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	196370m	42.064	ug/l	
73) Bromobenzene	12.52	156	212039	47.273	ug/l	99
74) n-propylbenzene	12.59	91	917955	47.881	ug/l	99
75) 2-Chlorotoluene	12.67	91	550873	47.367	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	699170	47.943	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	65129	41.972	ug/l	96
78) 4-Chlorotoluene	12.77	91	537836	47.952	ug/l	100
79) tert-butylbenzene	12.99	119	598889	48.053	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	685429	47.312	ug/l	99
81) sec-Butylbenzene	13.17	105	788789	48.037	ug/l	99
82) p-Isopropyltoluene	13.29	119	712680	47.879	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	342667	46.405	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	332373	47.180	ug/l	99
85) n-Butylbenzene	13.61	91	574459	47.240	ug/l	98
86) Hexachloroethane	13.87	117	117977	49.630	ug/l	99
87) 1,2-Dichlorobenzene	13.65	146	341406	45.852	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	35854	38.314	ug/l	95
89) 1,2,4-Trichlorobenzene	14.90	180	167530	43.049	ug/l	99
90) Hexachlorobutadiene	15.01	225	122969	47.131	ug/l	98
91) Naphthalene	15.13	128	441211	41.866	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	182740	44.252	ug/l	99

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

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