

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092419\
 Data File : VN058342.D
 Acq On : 24 Sep 2019 12:21
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 9/25/2019 8:23:59 AM

Quant Time: Sep 25 01:36:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N092419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Sep 25 01:14:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	83639	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	492844	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	429036	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	226507	30.83	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.77%
60) 4-Bromofluorobenzene	12.41	95	215559	29.23	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.43%
63) Toluene-d8	10.08	98	622340	30.36	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	23630	4.637 ug/l	97
3) Chloromethane	2.04	50	30996	5.000 ug/l	99
4) Vinyl Chloride	2.17	62	29511	4.673 ug/l	99
5) Bromomethane	2.54	94	18885	5.002 ug/l	98
6) Chloroethane	2.69	64	16712	4.296 ug/l	92
7) Trichlorofluoromethane	3.00	101	34808	4.849 ug/l	99
8) Diethyl Ether	3.39	74	15459	5.140 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	24872	5.337 ug/l	61
10) 1,1-Dichloroethene	3.72	96	24042	5.370 ug/l	93
11) Methyl Iodide	3.93	142	17850	3.185 ug/l	95
12) Methyl Acetate	4.30	43	32906	5.466 ug/l	99
13) Acrolein	3.59	56	3202	10.470 ug/l	91
14) Acrylonitrile	4.96	53	62920	25.378 ug/l	100
15) Acetone	3.80	58	18264m	26.097 ug/l	
16) Carbon Disulfide	4.03	76	65792	6.125 ug/l	97
17) Allyl chloride	4.30	41	42091	5.107 ug/l	90
18) Methylene Chloride	4.53	84	28353	5.089 ug/l	93
19) trans-1,2-Dichloroethene	5.01	96	26956	5.404 ug/l	94
20) Diisopropyl ether	5.93	45	89548	4.754 ug/l	96
21) 1,1-Dichloroethane	5.82	63	51400	4.950 ug/l	98
22) cis-1,2-Dichloroethene	6.81	96	30517	5.052 ug/l	99
23) tert-Butyl Alcohol	4.76	59	24567	29.844 ug/l	# 100
24) Methyl tert-Butyl Ether	5.02	73	83275	4.936 ug/l	98
25) Chloroform	7.36	83	54188	5.121 ug/l	98
26) Cyclohexane	7.64	56	47511	5.305 ug/l	# 99
29) 1,1-Dichloropropene	7.78	75	39900	5.074 ug/l	99
30) 2-Butanone	6.82	43	93040	26.338 ug/l	99
31) 2,2-Dichloropropane	6.80	77	40129	4.838 ug/l	97
32) 1,1,1-Trichloroethane	7.55	97	40898	4.668 ug/l	98
33) Carbon Tetrachloride	7.76	117	34401	4.746 ug/l	91
34) Benzene	8.03	78	116626	5.045 ug/l	# 69
35) Methacrylonitrile	7.16	41	12687m	3.804 ug/l	
36) 1,2-Dichloroethane	8.11	62	46550	5.194 ug/l	100
37) Trichloroethene	8.82	130	29243	5.178 ug/l	97
38) Methylcyclohexane	9.07	83	49119	5.434 ug/l	97
39) 1,2-Dichloropropane	9.11	63	32057	4.974 ug/l	97
40) Dibromomethane	9.20	93	19716	5.000 ug/l	97

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

41) Bromodichloromethane	9.40	83	36329	4.568	ug/l	95
42) Vinyl Acetate	5.88	43	357069	25.211	ug/l	99
43) Ethyl Acetate	6.91	43	32813	4.591	ug/l #	89
44) Isopropyl Acetate	8.15	43	62918	4.962	ug/l	93
45) 1,4-Dioxane	9.19	88	11600	114.400	ug/l	97
46) Methyl methacrylate	9.19	41	29872	4.873	ug/l	99
47) n-amyl Acetate	12.08	43	49315	4.292	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	36141	4.244	ug/l	95
49) cis-1,3-Dichloropropene	9.83	75	42995	4.492	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	28193	4.958	ug/l	99
51) Ethyl methacrylate	10.43	69	39709	4.479	ug/l	98
52) 1,3-Dichloropropane	10.71	76	48096	4.812	ug/l	99
53) Dibromochloromethane	10.90	129	23839	4.198	ug/l	98
54) 1,2-Dibromoethane	11.01	107	26756	4.698	ug/l	97
55) 2-Chloroethyl vinyl ether	9.69	63	84231	20.676	ug/l	99
56) Bromoform	12.13	173	13639	3.879	ug/l	95
58) 4-Methyl-2-Pentanone	9.98	43	186444	27.788	ug/l	100
59) 2-Hexanone	10.75	43	135698	26.927	ug/l	99
61) Tetrachloroethene	10.63	164	22357	5.072	ug/l	88
62) Toluene	10.15	91	125643	5.270	ug/l	99
64) Chlorobenzene	11.44	112	74478	5.039	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.51	131	23929	4.650	ug/l	98
66) Ethyl Benzene	11.51	91	136694	5.239	ug/l	99
67) m/p-Xylenes	11.62	106	98923	9.925	ug/l	98
68) o-Xylene	11.95	106	46548	4.759	ug/l	96
69) Styrene	11.97	104	75594	4.560	ug/l	99
70) Isopropylbenzene	12.26	105	128160	4.991	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	39222	4.888	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	35159m	4.937	ug/l	
73) Bromobenzene	12.53	156	29869	4.821	ug/l	97
74) n-propylbenzene	12.60	91	149217	5.074	ug/l	99
75) 2-Chlorotoluene	12.68	91	90781	4.946	ug/l	96
76) 1,3,5-Trimethylbenzene	12.74	105	105574	4.810	ug/l	99
77) t-1,4-Dichloro-2-butene	12.31	75	8180	3.789	ug/l	98
78) 4-Chlorotoluene	12.78	91	89680	4.769	ug/l	99
79) tert-butylbenzene	13.00	119	90073	4.736	ug/l	99
80) 1,2,4-Trimethylbenzene	13.05	105	104551	4.770	ug/l	100
81) sec-Butylbenzene	13.18	105	120647	4.745	ug/l	99
82) p-Isopropyltoluene	13.30	119	107405	4.737	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	54214	4.733	ug/l	98
84) 1,4-Dichlorobenzene	13.37	146	53728	4.751	ug/l	99
85) n-Butylbenzene	13.62	91	94024	4.461	ug/l	98
86) Hexachloroethane	13.88	117	14174	3.885	ug/l	96
87) 1,2-Dichlorobenzene	13.66	146	52325	4.688	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	6631	4.602	ug/l	96
89) 1,2,4-Trichlorobenzene	14.92	180	33877	4.951	ug/l	95
90) Hexachlorobutadiene	15.02	225	17411	5.505	ug/l	92
91) Naphthalene	15.14	128	99332	5.307	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	33868	5.206	ug/l	98

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

