

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102319\
 Data File : VN058907.D
 Acq On : 22 Oct 2019 14:33
 Operator : JC/SP
 Sample : VSTDCCC050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC050

Manual Integrations
 APPROVED

MMDadoda
 10/23/2019 3:09:44 PM

Quant Time: Oct 23 01:55:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	63073	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	537283	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	512451	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	248579	46.44	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	154.80%
60) 4-Bromofluorobenzene	12.40	95	262256	29.26	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.53%
63) Toluene-d8	10.08	98	708182	29.27	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	209785	61.387	ug/l 98
3) Chloromethane	2.04	50	247557	54.231	ug/l 98
4) Vinyl Chloride	2.17	62	252179	53.451	ug/l 98
5) Bromomethane	2.54	94	154391	53.002	ug/l 97
6) Chloroethane	2.68	64	161850	54.577	ug/l 100
7) Trichlorofluoromethane	3.00	101	313341	53.959	ug/l 98
8) Diethyl Ether	3.39	74	110922	50.082	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.74	101	174824	52.030	ug/l 99
10) 1,1-Dichloroethene	3.72	96	162646	49.285	ug/l 98
11) Methyl Iodide	3.93	142	232965	50.689	ug/l 98
12) Methyl Acetate	4.30	43	266226	50.422	ug/l 96
13) Acrolein	3.58	56	113476	194.512	ug/l 97
14) Acrylonitrile	4.96	53	524415	252.070	ug/l 99
15) Acetone	3.79	58	170339	275.831	ug/l 99
16) Carbon Disulfide	4.03	76	498043	51.742	ug/l 99
17) Allyl chloride	4.30	41	298919	45.508	ug/l 99
18) Methylene Chloride	4.53	84	197461	49.412	ug/l 98
19) trans-1,2-Dichloroethene	5.01	96	182165	50.705	ug/l 98
20) Diisopropyl ether	5.93	45	691685	51.685	ug/l 93
21) 1,1-Dichloroethane	5.82	63	381601	51.494	ug/l 99
22) cis-1,2-Dichloroethene	6.81	96	210369	49.111	ug/l 96
23) tert-Butyl Alcohol	4.76	59	190426	223.781	ug/l # 100
24) Methyl tert-Butyl Ether	5.02	73	602844	48.966	ug/l 100
25) Chloroform	7.35	83	376628	50.958	ug/l 97
26) Cyclohexane	7.63	56	338354	52.019	ug/l # 98
29) 1,1-Dichloropropene	7.77	75	285254	33.727	ug/l 100
30) 2-Butanone	6.81	43	796549	166.663	ug/l 99
31) 2,2-Dichloropropane	6.80	77	336821	33.788	ug/l 98
32) 1,1,1-Trichloroethane	7.55	97	325863	33.313	ug/l 100
33) Carbon Tetrachloride	7.76	117	282417	33.355	ug/l 99
34) Benzene	8.02	78	834904	33.531	ug/l 97
35) Methacrylonitrile	7.16	41	142132m	33.664	ug/l
36) 1,2-Dichloroethane	8.11	62	319792	33.592	ug/l 98
37) Trichloroethene	8.82	130	199345	32.589	ug/l 100
38) Methylcyclohexane	9.07	83	323999	33.041	ug/l 98
39) 1,2-Dichloropropane	9.11	63	228452	33.573	ug/l 98
40) Dibromomethane	9.20	93	144632	33.670	ug/l 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	300587	34.252	ug/l	100
42) Vinyl Acetate	5.87	43	2950603	176.276	ug/l	100
43) Ethyl Acetate	6.91	43	305700	32.588	ug/l	95
44) Isopropyl Acetate	8.15	43	498349	32.797	ug/l	99
45) 1,4-Dioxane	9.19	88	69529	595.905	ug/l	97
46) Methyl methacrylate	9.19	41	231004	33.115	ug/l	98
47) n-amyl Acetate	12.07	43	454819	33.765	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	339856	33.392	ug/l	98
49) cis-1,3-Dichloropropene	9.83	75	364469	34.102	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	205139	33.452	ug/l	98
51) Ethyl methacrylate	10.43	69	322707	32.910	ug/l	98
52) 1,3-Dichloropropane	10.70	76	360043	32.968	ug/l	99
53) Dibromochloromethane	10.90	129	226361	34.396	ug/l	99
54) 1,2-Dibromoethane	11.00	107	211883	33.335	ug/l	97
55) 2-Chloroethyl vinyl ether	9.69	63	695846	142.662	ug/l	100
56) Bromoform	12.13	173	159001	34.683	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	1611052	172.333	ug/l	99
59) 2-Hexanone	10.75	43	1220710	166.561	ug/l	100
61) Tetrachloroethene	10.63	164	180528	32.600	ug/l	99
62) Toluene	10.15	91	898661	32.601	ug/l	99
64) Chlorobenzene	11.43	112	541548	32.134	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	202557	32.054	ug/l	99
66) Ethyl Benzene	11.51	91	999666	32.752	ug/l	99
67) m/p-Xylenes	11.62	106	740061	64.899	ug/l	98
68) o-Xylene	11.95	106	352588	31.894	ug/l	98
69) Styrene	11.96	104	594774	32.567	ug/l	99
70) Isopropylbenzene	12.25	105	973377	32.613	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	320046	31.852	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	303599m	33.345	ug/l	
73) Bromobenzene	12.53	156	229061	31.597	ug/l	98
74) n-propylbenzene	12.59	91	1187960	34.005	ug/l	100
75) 2-Chlorotoluene	12.68	91	694866	33.059	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	848116	33.177	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	115315	33.247	ug/l	96
78) 4-Chlorotoluene	12.78	91	718668	33.174	ug/l	99
79) tert-butylbenzene	13.00	119	707047	32.374	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	847746	33.374	ug/l	100
81) sec-Butylbenzene	13.17	105	973130	33.109	ug/l	100
82) p-Isopropyltoluene	13.29	119	875750	33.181	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	428988	32.702	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	419486	32.015	ug/l	98
85) n-Butylbenzene	13.62	91	802255	33.200	ug/l	99
86) Hexachloroethane	13.88	117	161283	33.578	ug/l	99
87) 1,2-Dichlorobenzene	13.66	146	421806	32.571	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	68663	30.702	ug/l	100
89) 1,2,4-Trichlorobenzene	14.91	180	241293	29.508	ug/l	100
90) Hexachlorobutadiene	15.01	225	132529	31.386	ug/l	100
91) Naphthalene	15.13	128	667283	27.639	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	234648	29.478	ug/l	98

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

