

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081019\
 Data File : VN057165.D
 Acq On : 10 Aug 2019 10:14
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 8/12/2019 3:55:23 PM

Quant Time: Aug 11 03:42:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N081019W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sun Aug 11 03:32:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	6.59	128	155517	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.01	114	862896	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.90	117	749807	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.44	65	309285	30.51	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.70%
60) 4-Bromofluorobenzene	11.92	95	324799	29.09	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.97%
63) Toluene-d8	9.56	98	1044952	30.19	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.82	85	189044	22.286	ug/l 100
3) Chloromethane	2.00	50	212358	21.612	ug/l 100
4) Vinyl Chloride	2.11	62	212080	21.216	ug/l 100
5) Bromomethane	2.44	94	150023	21.068	ug/l 100
6) Chloroethane	2.55	64	136882	21.117	ug/l 100
7) Trichlorofluoromethane	2.83	101	321225	21.551	ug/l 100
8) Diethyl Ether	3.14	74	116413	20.955	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.44	101	188922	20.954	ug/l 100
10) 1,1-Dichloroethene	3.43	96	186686	20.942	ug/l 100
11) Methyl Iodide	3.63	142	288796	20.762	ug/l 100
12) Methyl Acetate	3.89	43	194547	20.950	ug/l 100
13) Acrolein	3.31	56	101205	98.823	ug/l 100
14) Acrylonitrile	4.45	53	408171	105.353	ug/l 100
15) Acetone	3.48	58	157376	122.394	ug/l 100
16) Carbon Disulfide	3.72	76	489904	20.371	ug/l 100
17) Allyl chloride	3.91	41	284614	21.657	ug/l 100
18) Methylene Chloride	4.10	84	214393	21.214	ug/l 100
19) trans-1,2-Dichloroethene	4.51	96	199084	20.831	ug/l 100
20) Diisopropyl ether	5.31	45	564541	21.063	ug/l 100
21) 1,1-Dichloroethane	5.25	63	351527	21.058	ug/l 100
22) cis-1,2-Dichloroethene	6.21	96	228121	20.972	ug/l 100
23) tert-Butyl Alcohol	4.23	59	136380	106.674	ug/l 100
24) Methyl tert-Butyl Ether	4.49	73	545813	20.821	ug/l 100
25) Chloroform	6.75	83	354696	20.664	ug/l 100
26) Cyclohexane	7.07	56	293886	20.594	ug/l # 100
29) 1,1-Dichloropropene	7.20	75	271665	20.935	ug/l 100
30) 2-Butanone	6.20	43	556843	108.996	ug/l 100
31) 2,2-Dichloropropane	6.21	77	288960	20.827	ug/l 100
32) 1,1,1-Trichloroethane	6.98	97	311567	20.733	ug/l 100
33) Carbon Tetrachloride	7.18	117	274751	20.538	ug/l 100
34) Benzene	7.46	78	812342	20.508	ug/l 100
35) Methacrylonitrile	6.55	41	108116	20.939	ug/l 100
36) 1,2-Dichloroethane	7.54	62	263357	20.812	ug/l 100
37) Trichloroethene	8.27	130	232343	20.641	ug/l 100
38) Methylcyclohexane	8.53	83	317306	20.491	ug/l 100
39) 1,2-Dichloropropane	8.56	63	210158	11.990	ug/l 100
40) Dibromomethane	8.65	93	138075	21.006	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	8.85	83	272177	20.824	ug/l	100
42) Vinyl Acetate	5.26	43	2185610	102.907	ug/l	100
43) Ethyl Acetate	6.28	43	202892	21.533	ug/l	100
44) Isopropyl Acetate	7.56	43	355259	20.766	ug/l	100
45) 1,4-Dioxane	8.64	88	67929	425.491	ug/l	100
46) Methyl methacrylate	8.63	41	156975	20.125	ug/l	100
47) n-amyl Acetate	11.59	43	234062	18.597	ug/l	100
48) t-1,3-Dichloropropene	9.85	75	282086	20.240	ug/l	100
49) cis-1,3-Dichloropropene	9.30	75	320852	22.407	ug/l	100
50) 1,1,2-Trichloroethane	10.04	97	194517	20.705	ug/l	100
51) Ethyl methacrylate	9.90	69	263859	19.902	ug/l	100
52) 1,3-Dichloropropane	10.19	76	324949	20.751	ug/l	100
53) Dibromochloromethane	10.39	129	215084	20.318	ug/l	100
54) 1,2-Dibromoethane	10.49	107	200281	20.423	ug/l	100
55) 2-Chloroethyl vinyl ether	9.15	63	329405	87.997	ug/l	100
56) Bromoform	11.64	173	153945	19.680	ug/l	100
58) 4-Methyl-2-Pentanone	9.45	43	1013604	105.229	ug/l	100
59) 2-Hexanone	10.24	43	732162	105.726	ug/l	100
61) Tetrachloroethene	10.11	164	244780	21.270	ug/l	100
62) Toluene	9.63	91	885991	20.759	ug/l	100
64) Chlorobenzene	10.93	112	536525	20.439	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.01	131	204427	20.308	ug/l	100
66) Ethyl Benzene	11.01	91	939028	20.525	ug/l	100
67) m/p-Xylenes	11.12	106	710339	41.173	ug/l	100
68) o-Xylene	11.46	106	346135	20.665	ug/l	100
69) Styrene	11.47	104	539375	20.082	ug/l	100
70) Isopropylbenzene	11.76	105	931510	20.656	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.02	83	255602	20.695	ug/l	100
72) 1,2,3-Trichloropropane	12.07	75	221081m	20.188	ug/l	100
73) Bromobenzene	12.04	156	232017	19.841	ug/l	100
74) n-propylbenzene	12.11	91	932137	19.690	ug/l	100
75) 2-Chlorotoluene	12.19	91	591948	20.216	ug/l	100
76) 1,3,5-Trimethylbenzene	12.26	105	781193	21.429	ug/l	88
77) t-1,4-Dichloro-2-butene	11.81	75	68614	18.861	ug/l	100
78) 4-Chlorotoluene	12.30	91	524244	19.277	ug/l	100
79) tert-butylbenzene	12.52	119	687025	20.528	ug/l	100
80) 1,2,4-Trimethylbenzene	12.57	105	716047	19.996	ug/l	100
81) sec-Butylbenzene	12.70	105	848765	20.114	ug/l	100
82) p-Isopropyltoluene	12.82	119	719240	19.142	ug/l	100
83) 1,3-Dichlorobenzene	12.81	146	335890	18.864	ug/l	100
84) 1,4-Dichlorobenzene	12.89	146	300988	18.172	ug/l	100
85) n-Butylbenzene	13.15	91	503341	18.527	ug/l	100
86) Hexachloroethane	13.41	117	133337	19.516	ug/l	100
87) 1,2-Dichlorobenzene	13.19	146	345209	19.550	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.81	75	32573	18.797	ug/l	100
89) 1,2,4-Trichlorobenzene	14.45	180	103975	14.697	ug/l	100
90) Hexachlorobutadiene	14.55	225	150700	19.796	ug/l	100
91) Naphthalene	14.67	128	179141	13.365	ug/l	100
92) 1,2,3-Trichlorobenzene	14.83	180	107069	16.471	ug/l	100

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

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