

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110719\
 Data File : VN059108.D
 Acq On : 7 Nov 2019 8:51
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 11/8/2019 9:38:59 AM

Quant Time: Nov 08 01:22:00 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	7.17	128	74659	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	8.56	114	420388	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.40	117	377957	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.00	65	177485	28.01	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	93.37%
60) 4-Bromofluorobenzene	12.40	95	190979	28.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.30%
63) Toluene-d8	10.08	98	531431	29.78	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	84675	20.932	ug/l 100
3) Chloromethane	2.04	50	119943	22.198	ug/l 99
4) Vinyl Chloride	2.17	62	123166	22.055	ug/l 96
5) Bromomethane	2.55	94	72892	21.140	ug/l 96
6) Chloroethane	2.68	64	73564	20.957	ug/l 97
7) Trichlorofluoromethane	3.00	101	153445	22.323	ug/l 98
8) Diethyl Ether	3.38	74	63577	24.251	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.73	101	93675	23.552	ug/l 96
10) 1,1-Dichloroethene	3.71	96	90090	23.063	ug/l 95
11) Methyl Iodide	3.93	142	107654	19.789	ug/l 97
12) Methyl Acetate	4.29	43	140399	22.464	ug/l 99
13) Acrolein	3.58	56	96228	139.349	ug/l 99
14) Acrylonitrile	4.95	53	281161	114.173	ug/l 97
15) Acetone	3.79	58	133727	182.940	ug/l 86
16) Carbon Disulfide	4.03	76	257928	22.638	ug/l 99
17) Allyl chloride	4.29	41	167107	21.493	ug/l 89
18) Methylene Chloride	4.52	84	108093	22.851	ug/l 98
19) trans-1,2-Dichloroethene	5.01	96	97935	23.029	ug/l 87
20) Diisopropyl ether	5.92	45	366774	23.154	ug/l 95
21) 1,1-Dichloroethane	5.82	63	199184	22.707	ug/l 99
22) cis-1,2-Dichloroethene	6.80	96	115325	22.745	ug/l 97
23) tert-Butyl Alcohol	4.75	59	106994	106.223	ug/l # 100
24) Methyl tert-Butyl Ether	5.01	73	324503	22.267	ug/l 94
25) Chloroform	7.34	83	194672	22.252	ug/l 95
26) Cyclohexane	7.63	56	172028	22.343	ug/l # 96
29) 1,1-Dichloropropene	7.77	75	143276	21.651	ug/l 98
30) 2-Butanone	6.80	43	468044	125.160	ug/l 100
31) 2,2-Dichloropropane	6.79	77	172472	22.112	ug/l 100
32) 1,1,1-Trichloroethane	7.54	97	161858	21.148	ug/l 98
33) Carbon Tetrachloride	7.75	117	139747	21.094	ug/l 98
34) Benzene	8.02	78	436340	22.397	ug/l 97
35) Methacrylonitrile	7.14	41	65132	19.716	ug/l 87
36) 1,2-Dichloroethane	8.10	62	151965	20.402	ug/l 98
37) Trichloroethene	8.81	130	106299	22.210	ug/l 99
38) Methylcyclohexane	9.06	83	164946	21.498	ug/l 99
39) 1,2-Dichloropropane	9.10	63	121098	22.745	ug/l 99
40) Dibromomethane	9.19	93	72848	21.674	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	149277	21.740	ug/l	99
42) Vinyl Acetate	5.86	43	1483716	113.289	ug/l	100
43) Ethyl Acetate	6.90	43	152886	20.830	ug/l #	92
44) Isopropyl Acetate	8.14	43	245112	20.617	ug/l	91
45) 1,4-Dioxane	9.18	88	40406	442.598	ug/l	96
46) Methyl methacrylate	9.18	41	110096	20.171	ug/l	95
47) n-amyl Acetate	12.07	43	190472	18.072	ug/l	97
48) t-1,3-Dichloropropene	10.37	75	171434	21.528	ug/l	98
49) cis-1,3-Dichloropropene	9.82	75	184593	22.075	ug/l	95
50) 1,1,2-Trichloroethane	10.55	97	105847	22.060	ug/l	98
51) Ethyl methacrylate	10.42	69	155029	20.206	ug/l	95
52) 1,3-Dichloropropane	10.70	76	185269	21.682	ug/l	99
53) Dibromochloromethane	10.89	129	112746	21.896	ug/l	98
54) 1,2-Dibromoethane	11.00	107	105899	21.294	ug/l	98
55) 2-Chloroethyl vinyl ether	9.68	63	349434	91.561	ug/l	100
56) Bromoform	12.12	173	78832	21.977	ug/l	99
58) 4-Methyl-2-Pentanone	9.97	43	762646	110.610	ug/l	98
59) 2-Hexanone	10.74	43	610385	112.921	ug/l	97
61) Tetrachloroethene	10.62	164	94980	23.255	ug/l	97
62) Toluene	10.14	91	454022	22.332	ug/l	99
64) Chlorobenzene	11.43	112	277695	22.341	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.50	131	104106	22.337	ug/l	98
66) Ethyl Benzene	11.51	91	496738	22.066	ug/l	100
67) m/p-Xylenes	11.62	106	364371	43.323	ug/l	99
68) o-Xylene	11.95	106	176138	21.603	ug/l	99
69) Styrene	11.96	104	278634	20.686	ug/l	100
70) Isopropylbenzene	12.25	105	482442	21.916	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	157398	21.239	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	147544m	21.972	ug/l	
73) Bromobenzene	12.53	156	114367	21.390	ug/l	100
74) n-propylbenzene	12.59	91	557786	21.648	ug/l	100
75) 2-Chlorotoluene	12.67	91	335828	21.663	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	409037	21.695	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	53478	20.905	ug/l	94
78) 4-Chlorotoluene	12.77	91	333794	20.891	ug/l	98
79) tert-butylbenzene	12.99	119	345908	21.474	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	395884	21.131	ug/l	100
81) sec-Butylbenzene	13.17	105	458441	21.148	ug/l	99
82) p-Isopropyltoluene	13.29	119	407030	20.909	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	199622	20.632	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	191577	19.824	ug/l	99
85) n-Butylbenzene	13.62	91	336382	18.874	ug/l	99
86) Hexachloroethane	13.88	117	77459	21.865	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	195867	20.506	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	29923	18.141	ug/l	93
89) 1,2,4-Trichlorobenzene	14.91	180	99125	16.436	ug/l	99
90) Hexachlorobutadiene	15.01	225	66573	21.376	ug/l	99
91) Naphthalene	15.13	128	264138	14.834	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	102271	17.420	ug/l	98

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

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