

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111318\
 Data File : VN052279.D
 Acq On : 13 Nov 2018 11:41
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 11:10:08 AM

Quant Time: Nov 14 00:24:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:39:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	49222	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	278216	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	243959	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	112248	30.73	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.43%
60) 4-Bromofluorobenzene	12.40	95	114227	29.27	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.57%
63) Toluene-d8	10.09	98	350539	30.56	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.87%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	73945	22.493	ug/l 98
3) Chloromethane	2.06	50	84714	22.547	ug/l 98
4) Vinyl Chloride	2.19	62	71915	19.511	ug/l 96
5) Bromomethane	2.58	94	42928	17.063	ug/l 100
6) Chloroethane	2.71	64	39681	16.837	ug/l 94
7) Trichlorofluoromethane	3.02	101	101421	20.320	ug/l 99
8) Diethyl Ether	3.41	74	34730	20.608	ug/l 83
9) 1,1,2-Trichlorotrifluoroet	3.76	101	61864	21.207	ug/l 96
10) 1,1-Dichloroethene	3.74	96	56144	20.626	ug/l 94
11) Methyl Iodide	3.96	142	75987	19.307	ug/l 98
12) Methyl Acetate	4.33	43	57161	24.949	ug/l 94
13) Acrolein	3.61	56	23403	96.302	ug/l 94
14) Acrylonitrile	4.99	53	114247	112.443	ug/l 98
15) Acetone	3.82	58	40303	167.835	ug/l 79
16) Carbon Disulfide	4.06	76	153484	19.097	ug/l 99
17) Allyl chloride	4.33	41	103125	22.313	ug/l 96
18) Methylene Chloride	4.55	84	65752	19.570	ug/l # 83
19) trans-1,2-Dichloroethene	5.05	96	59748	20.033	ug/l 98
20) Diisopropyl ether	5.95	45	234980	23.397	ug/l 94
21) 1,1-Dichloroethane	5.85	63	123906	21.111	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	68914	19.788	ug/l 94
23) tert-Butyl Alcohol	4.77	59	20551	129.819	ug/l # 99
24) Methyl tert-Butyl Ether	5.04	73	156836	20.324	ug/l 94
25) Chloroform	7.37	83	116818	19.822	ug/l 95
26) Cyclohexane	7.65	56	112655	21.412	ug/l # 88
29) 1,1-Dichloropropene	7.79	75	92479	20.937	ug/l 100
30) 2-Butanone	6.84	43	172210	146.399	ug/l # 80
31) 2,2-Dichloropropane	6.82	77	92175	20.258	ug/l 100
32) 1,1,1-Trichloroethane	7.57	97	99450	20.123	ug/l 98
33) Carbon Tetrachloride	7.77	117	84940	19.325	ug/l 95
34) Benzene	8.04	78	267462	20.680	ug/l 97
35) Methacrylonitrile	7.19	41	43259m	26.812	ug/l
36) 1,2-Dichloroethane	8.13	62	93887	21.711	ug/l 99
37) Trichloroethene	8.84	130	65816	20.332	ug/l 99
38) Methylcyclohexane	9.08	83	107136	19.883	ug/l 94
39) 1,2-Dichloropropane	9.12	63	74682	21.692	ug/l 96
40) Dibromomethane	9.21	93	41769	19.683	ug/l 94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	88102	20.291	ug/l	99
42) Vinyl Acetate	5.90	43	807446	117.253	ug/l	96
43) Ethyl Acetate	6.84	43	172210	29.131	ug/l #	87
44) Isopropyl Acetate	8.16	43	117540	24.015	ug/l #	90
45) 1,4-Dioxane	9.20	88	12384	554.640	ug/l #	72
46) Methyl methacrylate	9.20	41	57911	23.770	ug/l	87
47) n-amyl Acetate	12.07	43	102671	23.142	ug/l #	100
48) t-1,3-Dichloropropene	10.38	75	85138	19.747	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	102100	20.517	ug/l	91
50) 1,1,2-Trichloroethane	10.56	97	58127	20.714	ug/l	98
51) Ethyl methacrylate	10.43	69	76369	21.058	ug/l	89
52) 1,3-Dichloropropane	10.71	76	100486	20.558	ug/l	98
53) Dibromochloromethane	10.90	129	58971	19.466	ug/l	99
54) 1,2-Dibromoethane	11.01	107	55839	19.623	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	210926	106.209	ug/l	98
56) Bromoform	12.12	173	33223	18.988	ug/l	96
58) 4-Methyl-2-Pentanone	9.99	43	323479	123.742	ug/l	95
59) 2-Hexanone	10.75	43	246681	137.050	ug/l	96
61) Tetrachloroethene	10.63	164	57468	21.660	ug/l	95
62) Toluene	10.16	91	281997	20.591	ug/l	97
64) Chlorobenzene	11.43	112	170680	19.665	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	60873	20.606	ug/l	98
66) Ethyl Benzene	11.51	91	307119	20.761	ug/l	97
67) m/p-Xylenes	11.62	106	229583	40.312	ug/l	100
68) o-Xylene	11.95	106	109255	20.121	ug/l	99
69) Styrene	11.96	104	174424	19.935	ug/l	98
70) Isopropylbenzene	12.25	105	295008	20.239	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	69759	21.758	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	58458m	20.737	ug/l	
73) Bromobenzene	12.53	156	68094	21.083	ug/l	94
74) n-propylbenzene	12.59	91	351026	20.680	ug/l	99
75) 2-Chlorotoluene	12.67	91	203663	20.812	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	242368	20.736	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	17945	20.345	ug/l	91
78) 4-Chlorotoluene	12.77	91	202871	20.586	ug/l	100
79) tert-butylbenzene	12.99	119	213329	20.953	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	243672	20.927	ug/l	100
81) sec-Butylbenzene	13.17	105	293077	20.917	ug/l	100
82) p-Isopropyltoluene	13.29	119	249522	21.072	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	119989	21.003	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	117017	20.690	ug/l	96
85) n-Butylbenzene	13.61	91	216271	21.102	ug/l	99
86) Hexachloroethane	13.87	117	41205	20.621	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	116233	21.414	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	9923	22.634	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	49095	22.282	ug/l	98
90) Hexachlorobutadiene	15.01	225	29438	24.420	ug/l	96
91) Naphthalene	15.13	128	113363	22.322	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	45037	23.453	ug/l	99

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

