

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN083018\
 Data File : VN050970.D
 Acq On : 30 Aug 2018 18:20
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 8/31/2018 11:32:23 AM

Quant Time: Aug 31 06:30:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	123895	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	660006	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	559108	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	235741	29.82	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.40%
60) 4-Bromofluorobenzene	12.40	95	245148	29.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.30%
63) Toluene-d8	10.09	98	807958	30.99	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.30%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	145028	18.85	ug/l	100
3) Chloromethane	2.06	50	162635	17.90	ug/l	100
4) Vinyl Chloride	2.18	62	164794	18.36	ug/l	99
5) Bromomethane	2.56	94	92189	16.85	ug/l	98
6) Chloroethane	2.70	64	95692	18.07	ug/l	95
7) Trichlorofluoromethane	3.01	101	222534	18.70	ug/l	99
8) Diethyl Ether	3.41	74	75362	17.96	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	138449	18.79	ug/l	99
10) 1,1-Dichloroethene	3.74	96	120593	18.01	ug/l	97
11) Methyl Iodide	3.95	142	99226	15.89	ug/l	98
12) Methyl Acetate	4.33	43	164007	21.19	ug/l	99
13) Acrolein	3.61	56	9538	55.64	ug/l #	52
14) Acrylonitrile	5.00	53	235277	89.89	ug/l	97
15) Acetone	3.82	58	61142	91.29	ug/l	87
16) Carbon Disulfide	4.05	76	350096	17.39	ug/l	100
17) Allyl chloride	4.32	41	189012	17.94	ug/l	99
18) Methylene Chloride	4.55	84	146623	18.66	ug/l	99
19) trans-1,2-Dichloroethene	5.04	96	128797	18.06	ug/l	99
20) Diisopropyl ether	5.96	45	415610	19.01	ug/l	100
21) 1,1-Dichloroethane	5.85	63	250124	18.66	ug/l	100
22) cis-1,2-Dichloroethene	6.83	96	146570	18.19	ug/l	98
23) tert-Butyl Alcohol	4.80	59	49476	88.89	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	337290	18.42	ug/l	100
25) Chloroform	7.37	83	252606	18.88	ug/l	98
26) Cyclohexane	7.66	56	196128	17.66	ug/l #	97
29) 1,1-Dichloropropene	7.80	75	182737	18.49	ug/l	99
30) 2-Butanone	6.84	43	262258	86.28	ug/l	99
31) 2,2-Dichloropropane	6.83	77	192415	20.01	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	212193	18.94	ug/l	99
33) Carbon Tetrachloride	7.78	117	188726	18.70	ug/l	94
34) Benzene	8.05	78	569858	18.64	ug/l	99
35) Methacrylonitrile	7.17	41	63317	19.01	ug/l	96
36) 1,2-Dichloroethane	8.13	62	175590	18.99	ug/l	99
37) Trichloroethene	8.84	130	146540	18.34	ug/l	97
38) Methylcyclohexane	9.08	83	188228	17.74	ug/l	99
39) 1,2-Dichloropropane	9.12	63	152206	19.07	ug/l	98
40) Dibromomethane	9.21	93	90113	18.74	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.41	83	190173	18.76	ug/l	99
42) Vinyl Acetate	5.90	43	1259633	89.97	ug/l	99
43) Ethyl Acetate	6.93	43	106211	17.06	ug/l	96
44) Isopropyl Acetate	8.17	43	265498	24.16	ug/l #	90
45) 1,4-Dioxane	9.20	88	28394	347.87	ug/l	93
46) Methyl methacrylate	9.20	41	104390	18.97	ug/l	93
47) n-amyl Acetate	12.07	43	147634	16.71	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	179459	18.06	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	212643	18.63	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	132686	18.99	ug/l	98
51) Ethyl methacrylate	10.43	69	147204	17.22	ug/l	99
52) 1,3-Dichloropropane	10.71	76	213541	18.45	ug/l	100
53) Dibromochloromethane	10.90	129	144685	18.21	ug/l	98
54) 1,2-Dibromoethane	11.01	107	123481	17.87	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	312232	87.77	ug/l	99
56) Bromoform	12.13	173	97947	17.33	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	587799	91.89	ug/l	100
59) 2-Hexanone	10.75	43	374831	89.64	ug/l	99
61) Tetrachloroethene	10.63	164	132233	18.98	ug/l	99
62) Toluene	10.16	91	602968	19.33	ug/l	98
64) Chlorobenzene	11.44	112	359861	18.61	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	142303	19.50	ug/l	99
66) Ethyl Benzene	11.51	91	588945	18.23	ug/l	98
67) m/p-Xylenes	11.62	106	465935	37.48	ug/l	99
68) o-Xylene	11.95	106	219549	18.48	ug/l	99
69) Styrene	11.97	104	349886	18.53	ug/l	99
70) Isopropylbenzene	12.25	105	587564	18.62	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	163329	19.11	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	140282m	19.03	ug/l	
73) Bromobenzene	12.53	156	152844	18.40	ug/l	99
74) n-propylbenzene	12.59	91	650303	18.22	ug/l	99
75) 2-Chlorotoluene	12.68	91	406019	18.73	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	477103	18.50	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	37453	17.83	ug/l	97
78) 4-Chlorotoluene	12.77	91	389091	18.23	ug/l	100
79) tert-butylbenzene	12.99	119	415262	18.54	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	482158	18.75	ug/l	99
81) sec-Butylbenzene	13.17	105	536673	18.31	ug/l	100
82) p-Isopropyltoluene	13.29	119	456045	18.03	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	253324	18.04	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	238164	17.90	ug/l	99
85) n-Butylbenzene	13.62	91	324338	16.80	ug/l	100
86) Hexachloroethane	13.88	117	91187	18.78	ug/l	98
87) 1,2-Dichlorobenzene	13.65	146	253336	18.33	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	14.27	75	21993	18.40	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	93859	15.26	ug/l	100
90) Hexachlorobutadiene	15.01	225	79116	18.93	ug/l	98
91) Naphthalene	15.14	128	198487	18.90	ug/l	100
92) 1,2,3-Trichlorobenzene	15.32	180	101418	16.43	ug/l	99

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

