

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091418\
 Data File : VN051173.D
 Acq On : 14 Sep 2018 7:44
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 9/17/2018 1:39:28 PM

Quant Time: Sep 14 14:47:32 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	112946	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	619348	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	523681	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	211358	29.32	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.73%
60) 4-Bromofluorobenzene	12.40	95	227018	29.15	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.17%
63) Toluene-d8	10.09	98	755626	30.94	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.13%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	110388	15.74	ug/l	99
3) Chloromethane	2.06	50	140978	17.02	ug/l	100
4) Vinyl Chloride	2.18	62	146733	17.93	ug/l	100
5) Bromomethane	2.57	94	84550	16.95	ug/l	98
6) Chloroethane	2.71	64	92106	19.08	ug/l	98
7) Trichlorofluoromethane	3.02	101	214978	19.82	ug/l	99
8) Diethyl Ether	3.41	74	70740	18.49	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.76	101	138720	20.65	ug/l	98
10) 1,1-Dichloroethene	3.74	96	120512	19.75	ug/l	95
11) Methyl Iodide	3.95	142	90590	15.91	ug/l	98
12) Methyl Acetate	4.33	43	93897	13.31	ug/l	97
13) Acrolein	3.61	56	40600	259.81	ug/l	96
14) Acrylonitrile	4.99	53	189291	79.33	ug/l	98
15) Acetone	3.82	58	61879	101.35	ug/l	89
16) Carbon Disulfide	4.05	76	344398	18.77	ug/l	100
17) Allyl chloride	4.33	41	178422	18.58	ug/l	98
18) Methylene Chloride	4.55	84	140954	19.68	ug/l	99
19) trans-1,2-Dichloroethene	5.04	96	129219	19.87	ug/l	96
20) Diisopropyl ether	5.95	45	396299	19.88	ug/l	99
21) 1,1-Dichloroethane	5.85	63	246731	20.19	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	146580	19.96	ug/l	99
23) tert-Butyl Alcohol	4.79	59	33910	66.83	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	302139	18.10	ug/l	99
25) Chloroform	7.37	83	250430	20.53	ug/l	98
26) Cyclohexane	7.65	56	195984	19.36	ug/l #	100
29) 1,1-Dichloropropene	7.79	75	181890	19.62	ug/l	98
30) 2-Butanone	6.84	43	224628	78.75	ug/l	100
31) 2,2-Dichloropropane	6.82	77	199020	22.06	ug/l	98
32) 1,1,1-Trichloroethane	7.57	97	213868	20.34	ug/l	98
33) Carbon Tetrachloride	7.77	117	192640	20.34	ug/l	97
34) Benzene	8.04	78	558710	19.48	ug/l	99
35) Methacrylonitrile	7.17	41	44928	14.38	ug/l	96
36) 1,2-Dichloroethane	8.13	62	161918	18.66	ug/l	98
37) Trichloroethene	8.83	130	149516	19.94	ug/l	98
38) Methylcyclohexane	9.08	83	195015	19.58	ug/l	98
39) 1,2-Dichloropropane	9.12	63	146733	19.59	ug/l	98
40) Dibromomethane	9.21	93	84079	18.63	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	186785	19.63	ug/l	97
42) Vinyl Acetate	5.90	43	1183858	90.11	ug/l	99
43) Ethyl Acetate	6.93	43	95878	16.41	ug/l	95
44) Isopropyl Acetate	8.16	43	169581	16.45	ug/l	97
45) 1,4-Dioxane	9.20	88	22539	294.26	ug/l	99
46) Methyl methacrylate	9.20	41	78337	15.17	ug/l	98
47) n-amyl Acetate	12.07	43	111098	13.40	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	166483	17.85	ug/l	96
49) cis-1,3-Dichloropropene	9.84	75	203748	19.02	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	123591	18.85	ug/l	99
51) Ethyl methacrylate	10.43	69	130057	16.21	ug/l	97
52) 1,3-Dichloropropane	10.71	76	199851	18.40	ug/l	99
53) Dibromochloromethane	10.90	129	140144	18.80	ug/l	100
54) 1,2-Dibromoethane	11.00	107	111876	17.26	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	235376	70.51	ug/l	99
56) Bromoform	12.13	173	88951	16.77	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	455796	76.07	ug/l	99
59) 2-Hexanone	10.75	43	285075	72.79	ug/l	100
61) Tetrachloroethene	10.63	164	137138	21.02	ug/l	97
62) Toluene	10.16	91	599848	20.53	ug/l	100
64) Chlorobenzene	11.43	112	364370	20.12	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	143546	21.00	ug/l	99
66) Ethyl Benzene	11.51	91	590988	19.53	ug/l	99
67) m/p-Xylenes	11.62	106	470130	40.38	ug/l	99
68) o-Xylene	11.95	106	224464	20.18	ug/l	98
69) Styrene	11.96	104	344653	19.48	ug/l	100
70) Isopropylbenzene	12.25	105	594943	20.12	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	138408	17.29	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	115065m	16.66	ug/l	
73) Bromobenzene	12.53	156	149053	19.16	ug/l	95
74) n-propylbenzene	12.59	91	655261	19.60	ug/l	100
75) 2-Chlorotoluene	12.67	91	401852	19.79	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	487409	20.17	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	29040	14.76	ug/l	99
78) 4-Chlorotoluene	12.77	91	376871	18.85	ug/l	98
79) tert-butylbenzene	12.99	119	413911	19.73	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	486037	20.18	ug/l	99
81) sec-Butylbenzene	13.17	105	548118	19.97	ug/l	99
82) p-Isopropyltoluene	13.29	119	466367	19.68	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	244531	18.59	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	224429	18.01	ug/l	97
85) n-Butylbenzene	13.62	91	323188	17.87	ug/l	99
86) Hexachloroethane	13.87	117	91845	20.19	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	240449	18.58	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	16194	14.46	ug/l	92
89) 1,2,4-Trichlorobenzene	14.91	180	77658	13.48	ug/l	100
90) Hexachlorobutadiene	15.01	225	82203	21.00	ug/l	99
91) Naphthalene	15.13	128	131036	15.85	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	83168	14.38	ug/l	99

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

