

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121418\
 Data File : VN052877.D
 Acq On : 14 Dec 2018 9:45
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 12/17/2018 3:05:26 PM

Quant Time: Dec 14 11:09:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	159329	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	919710	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	813895	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	305872	28.17	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	93.90%
60) 4-Bromofluorobenzene	12.40	95	379807	30.52	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.73%
63) Toluene-d8	10.09	98	1091924	28.93	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.43%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	168578	18.577	ug/l 99
3) Chloromethane	2.06	50	218757	18.177	ug/l 97
4) Vinyl Chloride	2.19	62	231799	19.084	ug/l 99
5) Bromomethane	2.58	94	145241	20.971	ug/l 97
6) Chloroethane	2.71	64	140436	19.442	ug/l 99
7) Trichlorofluoromethane	3.03	101	300897	20.073	ug/l 97
8) Diethyl Ether	3.41	74	116004	20.958	ug/l 93
9) 1,1,2-Trichlorotrifluoroet	3.77	101	195307	20.553	ug/l 96
10) 1,1-Dichloroethene	3.74	96	182741	20.453	ug/l 96
11) Methyl Iodide	3.96	142	244643	19.721	ug/l 99
12) Methyl Acetate	4.33	43	156585	20.626	ug/l 98
13) Acrolein	3.61	56	76199	85.448	ug/l 97
14) Acrylonitrile	4.99	53	334578	103.436	ug/l 98
15) Acetone	3.82	58	86964	103.813	ug/l 98
16) Carbon Disulfide	4.06	76	502670	17.770	ug/l 100
17) Allyl chloride	4.33	41	275143	17.658	ug/l 98
18) Methylene Chloride	4.55	84	210494	20.347	ug/l 94
19) trans-1,2-Dichloroethene	5.05	96	195838	20.367	ug/l 94
20) Diisopropyl ether	5.95	45	653688	19.963	ug/l 99
21) 1,1-Dichloroethane	5.85	63	375519	20.121	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	230662	20.931	ug/l 98
23) tert-Butyl Alcohol	4.78	59	55282	114.887	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	501996	21.417	ug/l 97
25) Chloroform	7.37	83	369037	20.496	ug/l 98
26) Cyclohexane	7.65	56	333824	18.965	ug/l # 95
29) 1,1-Dichloropropene	7.80	75	286890	20.427	ug/l 99
30) 2-Butanone	6.83	43	400985	106.696	ug/l 98
31) 2,2-Dichloropropane	6.82	77	276711	21.401	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	308256	21.093	ug/l 98
33) Carbon Tetrachloride	7.78	117	267127	20.890	ug/l 98
34) Benzene	8.04	78	865005	20.485	ug/l 97
35) Methacrylonitrile	7.17	41	97444	20.898	ug/l 96
36) 1,2-Dichloroethane	8.12	62	264557	20.675	ug/l 100
37) Trichloroethene	8.84	130	235046	21.951	ug/l 95
38) Methylcyclohexane	9.08	83	342305	19.688	ug/l 96
39) 1,2-Dichloropropane	9.12	63	228658	20.201	ug/l 97
40) Dibromomethane	9.21	93	130814	21.386	ug/l 96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	277992	20.570	ug/l	98
42) Vinyl Acetate	5.90	43	1947945	95.797	ug/l	98
43) Ethyl Acetate	6.83	43	400985	50.177	ug/l	100
44) Isopropyl Acetate	8.16	43	308495	22.011	ug/l	99
45) 1,4-Dioxane	9.20	88	37339	486.990	ug/l	90
46) Methyl methacrylate	9.20	41	151198	20.777	ug/l	97
47) n-amyl Acetate	12.07	43	258719	22.264	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	273571	20.878	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	326707	20.464	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	187277	21.599	ug/l	99
51) Ethyl methacrylate	10.43	69	235006	21.581	ug/l	94
52) 1,3-Dichloropropane	10.71	76	323652	20.971	ug/l	99
53) Dibromochloromethane	10.90	129	207145	21.700	ug/l	99
54) 1,2-Dibromoethane	11.01	107	183082	21.609	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	681274	106.878	ug/l	98
56) Bromoform	12.13	173	137024	21.961	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	844914	107.080	ug/l	98
59) 2-Hexanone	10.75	43	622399	115.471	ug/l	97
61) Tetrachloroethene	10.63	164	249983	24.938	ug/l	94
62) Toluene	10.16	91	940894	20.970	ug/l	100
64) Chlorobenzene	11.44	112	584031	21.326	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	206230	21.695	ug/l	99
66) Ethyl Benzene	11.51	91	1007919	20.843	ug/l	99
67) m/p-Xylenes	11.62	106	767605	42.608	ug/l	98
68) o-Xylene	11.95	106	377126	21.567	ug/l	98
69) Styrene	11.96	104	611127	21.653	ug/l	99
70) Isopropylbenzene	12.25	105	1007292	21.651	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	214200	21.165	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	203166m	23.385	ug/l	
73) Bromobenzene	12.53	156	254854	22.649	ug/l	93
74) n-propylbenzene	12.59	91	1146855	21.157	ug/l	98
75) 2-Chlorotoluene	12.68	91	677448	21.530	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	825669	21.972	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	58802	21.426	ug/l	99
78) 4-Chlorotoluene	12.77	91	681718	21.696	ug/l	99
79) tert-butylbenzene	12.99	119	720899	22.028	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	825942	21.966	ug/l	99
81) sec-Butylbenzene	13.17	105	986478	21.641	ug/l	100
82) p-Isopropyltoluene	13.29	119	855041	22.029	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	447889	22.632	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	441939	23.114	ug/l	99
85) n-Butylbenzene	13.62	91	701625	21.044	ug/l	99
86) Hexachloroethane	13.88	117	135503	20.604	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	433694	23.029	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	32455	22.894	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	237901	25.640	ug/l	99
90) Hexachlorobutadiene	15.01	225	144472	23.736	ug/l	100
91) Naphthalene	15.13	128	471512	25.165	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	213938	25.020	ug/l	99

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

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