

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122818\
 Data File : VN053234.D
 Acq On : 28 Dec 2018 19:24
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 1/2/2019 9:50:16 AM

Quant Time: Dec 28 23:45:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N122818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Dec 28 10:33:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	163439	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	958813	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	855874	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	317949	30.62	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.07%
60) 4-Bromofluorobenzene	12.40	95	384692	29.37	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.90%
63) Toluene-d8	10.09	98	1159600	30.07	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	217441	19.967 ug/l	98
3) Chloromethane	2.06	50	256379	20.060 ug/l	98
4) Vinyl Chloride	2.19	62	248598	19.766 ug/l	96
5) Bromomethane	2.58	94	159153	19.627 ug/l	100
6) Chloroethane	2.71	64	143115	19.754 ug/l	100
7) Trichlorofluoromethane	3.03	101	310791	20.010 ug/l	99
8) Diethyl Ether	3.42	74	118048	20.457 ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.77	101	188844	19.352 ug/l	97
10) 1,1-Dichloroethene	3.74	96	185304	19.458 ug/l	99
11) Methyl Iodide	3.96	142	267758	19.199 ug/l	99
12) Methyl Acetate	4.33	43	151777	20.448 ug/l	97
13) Acrolein	3.61	56	89470	100.959 ug/l	100
14) Acrylonitrile	4.99	53	353854	106.563 ug/l	99
15) Acetone	3.82	58	79807	113.086 ug/l	90
16) Carbon Disulfide	4.06	76	564848	19.281 ug/l	100
17) Allyl chloride	4.33	41	301303	20.112 ug/l	99
18) Methylene Chloride	4.56	84	218348	20.034 ug/l	94
19) trans-1,2-Dichloroethene	5.05	96	199176	19.790 ug/l	94
20) Diisopropyl ether	5.95	45	652898	20.350 ug/l	96
21) 1,1-Dichloroethane	5.85	63	371752	19.900 ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	230866	20.364 ug/l	95
23) tert-Butyl Alcohol	4.78	59	64570	115.350 ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	516492	20.799 ug/l	96
25) Chloroform	7.37	83	362066	20.164 ug/l	98
26) Cyclohexane	7.66	56	338129	19.406 ug/l	# 97
29) 1,1-Dichloropropene	7.80	75	284216	19.569 ug/l	99
30) 2-Butanone	6.84	43	393915	108.713 ug/l	98
31) 2,2-Dichloropropane	6.83	77	234712	16.693 ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	302422	19.874 ug/l	97
33) Carbon Tetrachloride	7.78	117	261144	19.605 ug/l	99
34) Benzene	8.04	78	871715	19.971 ug/l	98
35) Methacrylonitrile	7.17	41	94917	20.300 ug/l	94
36) 1,2-Dichloroethane	8.13	62	253812	20.031 ug/l	99
37) Trichloroethene	8.84	130	233547	19.752 ug/l	95
38) Methylcyclohexane	9.08	83	318429	18.745 ug/l	97
39) 1,2-Dichloropropane	9.12	63	229341	20.122 ug/l	97
40) Dibromomethane	9.21	93	131756	20.441 ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	9.41	83	269652	19.480	ug/l	100
42) Vinyl Acetate	5.90	43	2055003	103.955	ug/l	97
43) Ethyl Acetate	6.93	43	172339	21.298	ug/l #	68
44) Isopropyl Acetate	8.17	43	323561	21.465	ug/l	100
45) 1,4-Dioxane	9.20	88	39150	424.733	ug/l	93
46) Methyl methacrylate	9.20	41	158910	20.868	ug/l	95
47) n-amyl Acetate	12.07	43	270278	20.417	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	270533	19.148	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	321106	19.302	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	189005	20.451	ug/l	99
51) Ethyl methacrylate	10.43	69	250784	20.820	ug/l	93
52) 1,3-Dichloropropane	10.71	76	324698	20.395	ug/l	99
53) Dibromochloromethane	10.90	129	203878	19.641	ug/l	97
54) 1,2-Dibromoethane	11.01	107	188743	20.244	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	710745	102.819	ug/l	98
56) Bromoform	12.13	173	138184	19.460	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	898475	110.167	ug/l	97
59) 2-Hexanone	10.75	43	604957	107.446	ug/l	96
61) Tetrachloroethene	10.63	164	254414	20.115	ug/l	96
62) Toluene	10.16	91	930398	19.821	ug/l	100
64) Chlorobenzene	11.43	112	583684	19.816	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	199193	19.278	ug/l	99
66) Ethyl Benzene	11.51	91	998645	19.619	ug/l	99
67) m/p-Xylenes	11.62	106	754824	39.209	ug/l	98
68) o-Xylene	11.95	106	369869	19.827	ug/l	97
69) Styrene	11.97	104	598000	19.638	ug/l	99
70) Isopropylbenzene	12.25	105	963948	19.639	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.51	83	216809	20.984	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	187713m	20.746	ug/l	
73) Bromobenzene	12.53	156	243464	19.297	ug/l	96
74) n-propylbenzene	12.59	91	1063827	19.147	ug/l	98
75) 2-Chlorotoluene	12.68	91	646831	19.657	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	747548	19.200	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	55522	17.464	ug/l	97
78) 4-Chlorotoluene	12.77	91	638188	19.053	ug/l	99
79) tert-butylbenzene	12.99	119	661947	19.494	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	746050	19.118	ug/l	99
81) sec-Butylbenzene	13.17	105	855100	19.017	ug/l	100
82) p-Isopropyltoluene	13.29	119	725626	18.675	ug/l	98
83) 1,3-Dichlorobenzene	13.28	146	400632	18.649	ug/l	98
84) 1,4-Dichlorobenzene	13.36	146	390766	18.661	ug/l	99
85) n-Butylbenzene	13.62	91	562312	17.796	ug/l	99
86) Hexachloroethane	13.88	117	116344	18.754	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	377617	18.918	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	28634	19.378	ug/l	90
89) 1,2,4-Trichlorobenzene	14.91	180	180249	18.605	ug/l	99
90) Hexachlorobutadiene	15.01	225	108902	18.570	ug/l	98
91) Naphthalene	15.13	128	417325	20.302	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	173019	20.016	ug/l	97

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

