

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030419\
 Data File : VN054062.D
 Acq On : 4 Mar 2019 13:22
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 3/6/2019 10:29:52 AM

Quant Time: Mar 04 23:36:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 01 11:11:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	113803	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	618394	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	519129	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	241216	30.18	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.60%
60) 4-Bromofluorobenzene	12.40	95	239398	30.13	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.43%
63) Toluene-d8	10.09	98	768585	30.77	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	131732	20.473	ug/l 98
3) Chloromethane	2.06	50	176166	20.582	ug/l 98
4) Vinyl Chloride	2.18	62	173930	20.293	ug/l 97
5) Bromomethane	2.57	94	106291	20.160	ug/l 96
6) Chloroethane	2.70	64	102317	20.276	ug/l 99
7) Trichlorofluoromethane	3.02	101	219815	21.109	ug/l 99
8) Diethyl Ether	3.41	74	78068	19.934	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	139277	20.803	ug/l 98
10) 1,1-Dichloroethene	3.74	96	128008	20.407	ug/l 96
11) Methyl Iodide	3.95	142	170290	18.302	ug/l 98
12) Methyl Acetate	4.32	43	110335	20.861	ug/l 93
13) Acrolein	3.61	56	22771	58.820	ug/l 98
14) Acrylonitrile	4.99	53	255578	100.558	ug/l 98
15) Acetone	3.81	58	60811m	83.024	ug/l
16) Carbon Disulfide	4.05	76	412179	20.252	ug/l 99
17) Allyl chloride	4.32	41	230378	20.767	ug/l 98
18) Methylene Chloride	4.55	84	149741	20.672	ug/l 98
19) trans-1,2-Dichloroethene	5.04	96	141447	20.785	ug/l 94
20) Diisopropyl ether	5.95	45	452340	20.383	ug/l 97
21) 1,1-Dichloroethane	5.85	63	272987	20.829	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	152915	20.184	ug/l 97
23) tert-Butyl Alcohol	4.78	59	48043	105.536	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	344459	20.284	ug/l 99
25) Chloroform	7.37	83	262722	20.776	ug/l 100
26) Cyclohexane	7.65	56	246069	20.630	ug/l # 96
29) 1,1-Dichloropropene	7.79	75	203862	21.046	ug/l 98
30) 2-Butanone	6.84	43	285853	93.466	ug/l # 96
31) 2,2-Dichloropropane	6.82	77	182353	19.092	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	214524	20.590	ug/l 99
33) Carbon Tetrachloride	7.77	117	186671	20.236	ug/l 97
34) Benzene	8.04	78	596441	20.719	ug/l 100
35) Methacrylonitrile	7.17	41	67976	19.878	ug/l 95
36) 1,2-Dichloroethane	8.12	62	190433	20.601	ug/l 100
37) Trichloroethene	8.83	130	155665	20.715	ug/l 100
38) Methylcyclohexane	9.08	83	227735	19.920	ug/l 99
39) 1,2-Dichloropropane	9.12	63	164384	20.844	ug/l 96
40) Dibromomethane	9.21	93	92035	20.357	ug/l 99

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

41) Bromodichloromethane	9.40	83	197580	20.597	ug/l	98
42) Vinyl Acetate	5.90	43	1562328	98.880	ug/l	100
43) Ethyl Acetate	6.93	43	115789	18.075	ug/l #	85
44) Isopropyl Acetate	8.16	43	220014	19.573	ug/l	92
45) 1,4-Dioxane	9.20	88	29619	447.632	ug/l	94
46) Methyl methacrylate	9.20	41	105044	19.455	ug/l	97
47) n-amyl Acetate	12.07	43	158379	19.180	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	181978	18.920	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	222512	19.702	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	128555	20.271	ug/l	99
51) Ethyl methacrylate	10.43	69	143580	18.807	ug/l	99
52) 1,3-Dichloropropane	10.71	76	220480	20.257	ug/l	99
53) Dibromochloromethane	10.90	129	137988	19.801	ug/l	98
54) 1,2-Dibromoethane	11.00	107	120601	19.964	ug/l	96
55) 2-Chloroethyl vinyl ether	9.70	63	340019	95.973	ug/l	99
56) Bromoform	12.13	173	88865	19.206	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	589803	100.828	ug/l	98
59) 2-Hexanone	10.75	43	367163	96.069	ug/l	98
61) Tetrachloroethene	10.63	164	156165	21.639	ug/l	98
62) Toluene	10.16	91	613063	21.131	ug/l	100
64) Chlorobenzene	11.43	112	363508	20.576	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	136214	20.998	ug/l	97
66) Ethyl Benzene	11.51	91	622613	20.530	ug/l	99
67) m/p-Xylenes	11.62	106	486658	42.623	ug/l	99
68) o-Xylene	11.95	106	233072	21.058	ug/l	99
69) Styrene	11.96	104	362991	20.712	ug/l	99
70) Isopropylbenzene	12.25	105	612034	21.069	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	144878	20.206	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	127217m	23.367	ug/l	
73) Bromobenzene	12.53	156	147633	20.157	ug/l	99
74) n-propylbenzene	12.59	91	723094	20.904	ug/l	99
75) 2-Chlorotoluene	12.67	91	425531	21.007	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	519789	21.124	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	34762	17.943	ug/l	95
78) 4-Chlorotoluene	12.77	91	414879	20.468	ug/l	99
79) tert-butylbenzene	12.99	119	451145	20.923	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	518675	21.178	ug/l	99
81) sec-Butylbenzene	13.17	105	626601	21.189	ug/l	99
82) p-Isopropyltoluene	13.29	119	526096	20.835	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	264139	20.447	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	251395	20.382	ug/l	99
85) n-Butylbenzene	13.62	91	435772	19.801	ug/l	99
86) Hexachloroethane	13.87	117	94121	19.937	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	256949	20.509	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	21732	20.949	ug/l	94
89) 1,2,4-Trichlorobenzene	14.91	180	120373	18.912	ug/l	99
90) Hexachlorobutadiene	15.01	225	90556	19.582	ug/l	99
91) Naphthalene	15.13	128	222475	19.782	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	117210	18.648	ug/l	99

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

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