

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060619\
 Data File : VN056029.D
 Acq On : 6 Jun 2019 1:33
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 6/6/2019 9:04:47 AM

Quant Time: Jun 06 04:53:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N060619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jun 06 04:02:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.19	128	53342	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	287976	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	252398	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	99842	30.14	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.47%
60) 4-Bromofluorobenzene	12.40	95	109185	29.19	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.30%
63) Toluene-d8	10.09	98	348166	30.41	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	64349	21.448	ug/l 99
3) Chloromethane	2.06	50	73074	20.846	ug/l 99
4) Vinyl Chloride	2.18	62	74434	20.827	ug/l 97
5) Bromomethane	2.53	94	48683	21.675	ug/l 99
6) Chloroethane	2.68	64	44391	21.959	ug/l 95
7) Trichlorofluoromethane	3.00	101	89568	20.255	ug/l 99
8) Diethyl Ether	3.40	74	37328	19.904	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.74	101	55776	20.434	ug/l 97
10) 1,1-Dichloroethene	3.72	96	55696	20.003	ug/l 97
11) Methyl Iodide	3.94	142	78591	17.890	ug/l 99
12) Methyl Acetate	4.33	43	66958	20.012	ug/l 100
13) Acrolein	3.60	56	16206	99.371	ug/l 99
14) Acrylonitrile	4.99	53	150263	100.703	ug/l 99
15) Acetone	3.82	58	41835	85.627	ug/l 93
16) Carbon Disulfide	4.04	76	125402	18.928	ug/l 99
17) Allyl chloride	4.31	41	84674	19.627	ug/l 99
18) Methylene Chloride	4.54	84	66145	20.519	ug/l 99
19) trans-1,2-Dichloroethene	5.03	96	60285	20.283	ug/l 98
20) Diisopropyl ether	5.96	45	182568	20.425	ug/l 96
21) 1,1-Dichloroethane	5.84	63	105613	20.331	ug/l 99
22) cis-1,2-Dichloroethene	6.82	96	70767	20.400	ug/l 97
23) tert-Butyl Alcohol	4.82	59	55097	94.864	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	180845	20.380	ug/l 100
25) Chloroform	7.37	83	106732	20.577	ug/l 99
26) Cyclohexane	7.65	56	96672	20.059	ug/l # 100
29) 1,1-Dichloropropene	7.79	75	79664	20.451	ug/l 100
30) 2-Butanone	6.84	43	196528	95.834	ug/l 99
31) 2,2-Dichloropropane	6.82	77	57569	15.886	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	86599	20.122	ug/l 99
33) Carbon Tetrachloride	7.77	117	70726	19.397	ug/l 97
34) Benzene	8.04	78	254155	20.477	ug/l 98
35) Methacrylonitrile	7.18	41	40224	23.228	ug/l 98
36) 1,2-Dichloroethane	8.12	62	80797	20.783	ug/l 99
37) Trichloroethene	8.83	130	70008	20.157	ug/l 95
38) Methylcyclohexane	9.08	83	96400	19.521	ug/l 98
39) 1,2-Dichloropropane	9.12	63	66056	20.780	ug/l 99
40) Dibromomethane	9.21	93	42791	20.303	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	74176	19.654	ug/l	99
42) Vinyl Acetate	5.90	43	734990	100.531	ug/l	99
43) Ethyl Acetate	6.93	43	79080	20.149	ug/l #	92
44) Isopropyl Acetate	8.17	43	119981	19.689	ug/l	100
45) 1,4-Dioxane	9.20	88	25448	390.382	ug/l	94
46) Methyl methacrylate	9.20	41	58470	19.314	ug/l	99
47) n-amyl Acetate	12.07	43	97849	19.416	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	71625	18.034	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	87671	18.851	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	62878	20.086	ug/l	98
51) Ethyl methacrylate	10.43	69	94057	19.860	ug/l	99
52) 1,3-Dichloropropane	10.71	76	103380	20.370	ug/l	99
53) Dibromochloromethane	10.90	129	58658	19.141	ug/l	97
54) 1,2-Dibromoethane	11.00	107	65061	19.916	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	150477	90.709	ug/l	100
56) Bromoform	12.13	173	39427	17.785	ug/l #	98
58) 4-Methyl-2-Pentanone	9.99	43	392166	102.609	ug/l	99
59) 2-Hexanone	10.75	43	271584	99.419	ug/l	99
61) Tetrachloroethene	10.63	164	75102	21.350	ug/l	97
62) Toluene	10.16	91	277824	20.390	ug/l	100
64) Chlorobenzene	11.43	112	166907	20.195	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	58682	19.691	ug/l	100
66) Ethyl Benzene	11.51	91	291448	20.083	ug/l	99
67) m/p-Xylenes	11.62	106	226762	40.823	ug/l	100
68) o-Xylene	11.95	106	112605	20.707	ug/l	100
69) Styrene	11.96	104	175837	19.901	ug/l	99
70) Isopropylbenzene	12.25	105	292728	20.602	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	86931	20.293	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	78452m	21.155	ug/l	
73) Bromobenzene	12.53	156	76044	20.163	ug/l	98
74) n-propylbenzene	12.59	91	299732	19.990	ug/l	99
75) 2-Chlorotoluene	12.67	91	187968	20.211	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	236711	20.254	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	16791	15.868	ug/l	93
78) 4-Chlorotoluene	12.77	91	172022	19.805	ug/l	99
79) tert-butylbenzene	12.99	119	212056	20.479	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	227436	20.004	ug/l	99
81) sec-Butylbenzene	13.17	105	266208	20.323	ug/l	99
82) p-Isopropyltoluene	13.29	119	234597	19.809	ug/l	100
83) 1,3-Dichlorobenzene	13.28	146	113566	19.323	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	103156	18.426	ug/l	98
85) n-Butylbenzene	13.61	91	158426	17.924	ug/l	99
86) Hexachloroethane	13.87	117	33552	18.173	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	115724	19.371	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	11734	17.450	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	43431	18.919	ug/l	97
90) Hexachlorobutadiene	15.01	225	41422	18.993	ug/l	99
91) Naphthalene	15.13	128	126044	15.886	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	52751	16.868	ug/l	99

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

