

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102319\
 Data File : VN058906.D
 Acq On : 22 Oct 2019 14:11
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 10/23/2019 3:09:40 PM

Quant Time: Oct 23 01:36:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	53612	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	285119	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	268475	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	145792	32.04	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.80%
60) 4-Bromofluorobenzene	12.40	95	137554	29.29	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.63%
63) Toluene-d8	10.08	98	396536	31.28	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.27%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	65538	22.562	ug/l 96
3) Chloromethane	2.04	50	84218	21.705	ug/l 99
4) Vinyl Chloride	2.17	62	83272	20.765	ug/l 98
5) Bromomethane	2.55	94	53537	21.622	ug/l 98
6) Chloroethane	2.69	64	55451	21.998	ug/l 98
7) Trichlorofluoromethane	3.00	101	112186	22.728	ug/l 96
8) Diethyl Ether	3.39	74	38849	20.636	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.73	101	63340	22.177	ug/l 100
10) 1,1-Dichloroethene	3.72	96	57586	20.529	ug/l 98
11) Methyl Iodide	3.93	142	78254	20.032	ug/l 98
12) Methyl Acetate	4.30	43	88855	19.799	ug/l 99
13) Acrolein	3.58	56	49511	99.845	ug/l 96
14) Acrylonitrile	4.96	53	179460	101.484	ug/l 97
15) Acetone	3.79	58	86177	164.173	ug/l 93
16) Carbon Disulfide	4.03	76	171987	21.021	ug/l 100
17) Allyl chloride	4.30	41	110569	19.804	ug/l 98
18) Methylene Chloride	4.53	84	73148	21.535	ug/l 98
19) trans-1,2-Dichloroethene	5.01	96	64213	21.028	ug/l 89
20) Diisopropyl ether	5.92	45	239273	21.035	ug/l 98
21) 1,1-Dichloroethane	5.82	63	136696	21.701	ug/l 99
22) cis-1,2-Dichloroethene	6.81	96	73760	20.258	ug/l 97
23) tert-Butyl Alcohol	4.75	59	64828	89.627	ug/l # 100
24) Methyl tert-Butyl Ether	5.01	73	203900	19.485	ug/l 99
25) Chloroform	7.35	83	135207	21.522	ug/l 96
26) Cyclohexane	7.64	56	106286	19.224	ug/l # 97
29) 1,1-Dichloropropene	7.77	75	97209	21.659	ug/l 100
30) 2-Butanone	6.81	43	304258	119.963	ug/l 99
31) 2,2-Dichloropropane	6.80	77	117965	22.300	ug/l # 79
32) 1,1,1-Trichloroethane	7.55	97	112739	21.718	ug/l 97
33) Carbon Tetrachloride	7.75	117	99869	22.227	ug/l 98
34) Benzene	8.02	78	288317	21.820	ug/l 98
35) Methacrylonitrile	7.15	41	42451	18.947	ug/l 89
36) 1,2-Dichloroethane	8.11	62	114193	22.604	ug/l 99
37) Trichloroethene	8.82	130	69228	21.326	ug/l 98
38) Methylcyclohexane	9.07	83	100500	19.313	ug/l 96
39) 1,2-Dichloropropane	9.11	63	79501	22.016	ug/l 99
40) Dibromomethane	9.20	93	51078	22.407	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	104854	22.516	ug/l	99
42) Vinyl Acetate	5.87	43	966172	108.771	ug/l	99
43) Ethyl Acetate	6.91	43	103650	20.821	ug/l	98
44) Isopropyl Acetate	8.15	43	161226	19.994	ug/l #	88
45) 1,4-Dioxane	9.19	88	24105	389.310	ug/l	97
46) Methyl methacrylate	9.19	41	74007	19.992	ug/l	96
47) n-amyl Acetate	12.07	43	131927	18.456	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	112707	20.868	ug/l	97
49) cis-1,3-Dichloropropene	9.83	75	121465	21.417	ug/l	97
50) 1,1,2-Trichloroethane	10.56	97	72387	22.244	ug/l	98
51) Ethyl methacrylate	10.42	69	97355	18.709	ug/l	98
52) 1,3-Dichloropropane	10.70	76	124192	21.430	ug/l	100
53) Dibromochloromethane	10.90	129	76432	21.886	ug/l	99
54) 1,2-Dibromoethane	11.00	107	71797	21.286	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	242375	93.640	ug/l	100
56) Bromoform	12.13	173	51791	21.288	ug/l	100
58) 4-Methyl-2-Pentanone	9.98	43	516611	105.480	ug/l	98
59) 2-Hexanone	10.75	43	419976	109.379	ug/l	98
61) Tetrachloroethene	10.63	164	63139	21.763	ug/l	96
62) Toluene	10.15	91	306237	21.205	ug/l	99
64) Chlorobenzene	11.43	112	182406	20.659	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	69661	21.041	ug/l	99
66) Ethyl Benzene	11.51	91	323156	20.209	ug/l	100
67) m/p-Xylenes	11.62	106	243060	40.685	ug/l	98
68) o-Xylene	11.95	106	113478	19.593	ug/l	99
69) Styrene	11.97	104	183328	19.160	ug/l	99
70) Isopropylbenzene	12.25	105	309500	19.793	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	108643	20.638	ug/l	100
72) 1,2,3-Trichloropropane	12.55	75	110340m	23.132	ug/l	
73) Bromobenzene	12.53	156	76855	20.235	ug/l	98
74) n-propylbenzene	12.59	91	377534	20.627	ug/l	100
75) 2-Chlorotoluene	12.68	91	227117	20.624	ug/l	100
76) 1,3,5-Trimethylbenzene	12.74	105	270579	20.204	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	34907	19.210	ug/l	94
78) 4-Chlorotoluene	12.78	91	231465	20.394	ug/l	100
79) tert-butylbenzene	13.00	119	225757	19.731	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	269744	20.269	ug/l	100
81) sec-Butylbenzene	13.17	105	306546	19.907	ug/l	100
82) p-Isopropyltoluene	13.29	119	272898	19.736	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	138466	20.147	ug/l	99
84) 1,4-Dichlorobenzene	13.37	146	134014	19.522	ug/l	100
85) n-Butylbenzene	13.62	91	233764	18.465	ug/l	99
86) Hexachloroethane	13.88	117	53301	21.181	ug/l	98
87) 1,2-Dichlorobenzene	13.66	146	138057	20.348	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.28	75	22603	19.291	ug/l	94
89) 1,2,4-Trichlorobenzene	14.92	180	71148	16.608	ug/l	100
90) Hexachlorobutadiene	15.01	225	42671	19.289	ug/l	100
91) Naphthalene	15.13	128	186125	14.715	ug/l	100
92) 1,2,3-Trichlorobenzene	15.30	180	71514	17.149	ug/l	97

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

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