

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062119\
 Data File : VN056439.D
 Acq On : 21 Jun 2019 20:20
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 6/24/2019 4:16:02 PM

Quant Time: Jun 22 03:47:10 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	63512	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	339046	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	300448	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	127005	32.20	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	107.33%
60) 4-Bromofluorobenzene	12.40	95	132799	29.82	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.40%
63) Toluene-d8	10.09	98	415749	30.50	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	74998	20.995	ug/l 100
3) Chloromethane	2.06	50	88586	21.225	ug/l 100
4) Vinyl Chloride	2.18	62	86795	20.397	ug/l 100
5) Bromomethane	2.52	94	51751	19.351	ug/l 99
6) Chloroethane	2.68	64	50969	21.176	ug/l 93
7) Trichlorofluoromethane	3.00	101	110552	20.997	ug/l 99
8) Diethyl Ether	3.41	74	46335	20.750	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	3.75	101	67512	20.773	ug/l 97
10) 1,1-Dichloroethene	3.73	96	67279	20.293	ug/l 97
11) Methyl Iodide	3.95	142	90322	17.268	ug/l 99
12) Methyl Acetate	4.33	43	93899	23.570	ug/l 97
13) Acrolein	3.61	56	18764	96.632	ug/l 98
14) Acrylonitrile	4.99	53	199280	112.167	ug/l 99
15) Acetone	3.82	58	58557	100.661	ug/l 94
16) Carbon Disulfide	4.05	76	141965	17.997	ug/l 100
17) Allyl chloride	4.32	41	110563	21.524	ug/l 100
18) Methylene Chloride	4.55	84	80441	20.959	ug/l 93
19) trans-1,2-Dichloroethene	5.04	96	71119	20.097	ug/l 97
20) Diisopropyl ether	5.95	45	234469	22.031	ug/l 98
21) 1,1-Dichloroethane	5.85	63	135742	21.947	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	85004	20.580	ug/l 96
23) tert-Butyl Alcohol	4.80	59	71056	102.751	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	223944	21.195	ug/l 100
25) Chloroform	7.37	83	131529	21.297	ug/l 100
26) Cyclohexane	7.65	56	120437	20.989	ug/l # 99
29) 1,1-Dichloropropene	7.79	75	97802	21.325	ug/l 98
30) 2-Butanone	6.84	43	268291	111.122	ug/l 98
31) 2,2-Dichloropropane	6.82	77	84278	19.754	ug/l 97
32) 1,1,1-Trichloroethane	7.57	97	106338	20.986	ug/l 99
33) Carbon Tetrachloride	7.77	117	85314	19.873	ug/l 99
34) Benzene	8.04	78	308154	21.088	ug/l 98
35) Methacrylonitrile	7.17	41	40838	20.030	ug/l 98
36) 1,2-Dichloroethane	8.12	62	103155	22.537	ug/l 98
37) Trichloroethene	8.84	130	84074	20.561	ug/l 96
38) Methylcyclohexane	9.08	83	118680	20.412	ug/l 100
39) 1,2-Dichloropropane	9.12	63	83579	22.333	ug/l 96
40) Dibromomethane	9.21	93	53453	21.541	ug/l 95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	91609	20.617	ug/l	99
42) Vinyl Acetate	5.90	43	946198	109.925	ug/l	99
43) Ethyl Acetate	6.93	43	103728	22.448	ug/l	100
44) Isopropyl Acetate	8.17	43	159685	22.257	ug/l	100
45) 1,4-Dioxane	9.20	88	34019	443.257	ug/l	97
46) Methyl methacrylate	9.20	41	76594	21.490	ug/l	96
47) n-amyl Acetate	12.07	43	126870	21.383	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	92326	19.744	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	113081	20.652	ug/l	100
50) 1,1,2-Trichloroethane	10.56	97	76349	20.715	ug/l	93
51) Ethyl methacrylate	10.43	69	115295	20.677	ug/l	98
52) 1,3-Dichloropropane	10.71	76	131372	21.986	ug/l	99
53) Dibromochloromethane	10.90	129	69322	19.214	ug/l	100
54) 1,2-Dibromoethane	11.01	107	81390	21.162	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	185493	94.974	ug/l	98
56) Bromoform	12.13	173	46587	17.849	ug/l	97
58) 4-Methyl-2-Pentanone	9.99	43	508767	111.828	ug/l	98
59) 2-Hexanone	10.75	43	365827	112.501	ug/l	99
61) Tetrachloroethene	10.63	164	82514	19.705	ug/l	96
62) Toluene	10.16	91	330958	20.405	ug/l	99
64) Chlorobenzene	11.43	112	203223	20.657	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	70642	19.913	ug/l	100
66) Ethyl Benzene	11.51	91	354428	20.517	ug/l	99
67) m/p-Xylenes	11.62	106	264980	40.074	ug/l	96
68) o-Xylene	11.95	106	133200	20.576	ug/l	98
69) Styrene	11.96	104	208253	19.801	ug/l	98
70) Isopropylbenzene	12.25	105	346827	20.506	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	109182	21.411	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	88806m	20.117	ug/l	
73) Bromobenzene	12.53	156	88696	19.757	ug/l	96
74) n-propylbenzene	12.59	91	361653	20.262	ug/l	98
75) 2-Chlorotoluene	12.67	91	230327	20.805	ug/l	97
76) 1,3,5-Trimethylbenzene	12.73	105	279913	20.120	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	22272	17.682	ug/l	94
78) 4-Chlorotoluene	12.77	91	205153	19.842	ug/l	98
79) tert-butylbenzene	12.99	119	257492	20.891	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	262364	19.386	ug/l	99
81) sec-Butylbenzene	13.17	105	318533	20.429	ug/l	99
82) p-Isopropyltoluene	13.29	119	269680	19.129	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	129310	18.483	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	119631	17.951	ug/l	99
85) n-Butylbenzene	13.61	91	183464	17.437	ug/l	98
86) Hexachloroethane	13.87	117	41380	18.828	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	132112	18.577	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	13869	17.326	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	47180	18.013	ug/l	99
90) Hexachlorobutadiene	15.01	225	48772	18.787	ug/l	99
91) Naphthalene	15.13	128	142105	15.046	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	56783	15.254	ug/l	99

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

