

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061219\
 Data File : VN056243.D
 Acq On : 12 Jun 2019 12:25
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 6/13/2019 9:42:24 AM

Quant Time: Jun 13 05:04:38 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	47873	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	230074	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	211137	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	89894	30.24	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.80%
60) 4-Bromofluorobenzene	12.40	95	90107	28.79	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.97%
63) Toluene-d8	10.09	98	287753	30.04	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	53033	19.696	ug/l 99
3) Chloromethane	2.06	50	60885	19.353	ug/l 98
4) Vinyl Chloride	2.18	62	57450	17.911	ug/l 98
5) Bromomethane	2.55	94	40728	20.204	ug/l 99
6) Chloroethane	2.69	64	33789	18.624	ug/l 95
7) Trichlorofluoromethane	3.01	101	73781	18.591	ug/l 95
8) Diethyl Ether	3.40	74	31087	18.470	ug/l 100
9) 1,1,2-Trichlorotrifluoroet	3.74	101	46841	19.121	ug/l 99
10) 1,1-Dichloroethene	3.72	96	44719	17.895	ug/l 93
11) Methyl Iodide	3.94	142	69515	17.631	ug/l 100
12) Methyl Acetate	4.33	43	57512	19.152	ug/l 99
13) Acrolein	3.60	56	15061	102.900	ug/l 95
14) Acrylonitrile	4.99	53	132930	99.264	ug/l 98
15) Acetone	3.82	58	39294	89.614	ug/l 96
16) Carbon Disulfide	4.04	76	107723	18.117	ug/l 100
17) Allyl chloride	4.31	41	70481	18.203	ug/l 99
18) Methylene Chloride	4.55	84	57386	19.836	ug/l 96
19) trans-1,2-Dichloroethene	5.04	96	49029	18.380	ug/l 97
20) Diisopropyl ether	5.95	45	155464	19.380	ug/l 99
21) 1,1-Dichloroethane	5.84	63	88948	19.079	ug/l 100
22) cis-1,2-Dichloroethene	6.83	96	59234	19.026	ug/l 99
23) tert-Butyl Alcohol	4.81	59	39820	76.393	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	151982	19.084	ug/l 99
25) Chloroform	7.37	83	91865	19.734	ug/l 99
26) Cyclohexane	7.65	56	76214	17.621	ug/l # 100
29) 1,1-Dichloropropene	7.79	75	63508	20.407	ug/l 99
30) 2-Butanone	6.84	43	173756	106.053	ug/l 100
31) 2,2-Dichloropropane	6.82	77	53733	18.560	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	71968	20.930	ug/l 100
33) Carbon Tetrachloride	7.77	117	61880	21.242	ug/l 99
34) Benzene	8.04	78	206724	20.848	ug/l 99
35) Methacrylonitrile	7.18	41	30815	22.273	ug/l 98
36) 1,2-Dichloroethane	8.12	62	71182	22.918	ug/l 98
37) Trichloroethene	8.83	130	58666	21.143	ug/l 100
38) Methylcyclohexane	9.08	83	78118	19.800	ug/l 99
39) 1,2-Dichloropropane	9.12	63	55237	21.750	ug/l 98
40) Dibromomethane	9.21	93	37997	22.565	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	68856	22.836	ug/l	99
42) Vinyl Acetate	5.90	43	634896	108.695	ug/l	99
43) Ethyl Acetate	6.93	43	65476	20.881	ug/l	98
44) Isopropyl Acetate	8.17	43	100684	20.681	ug/l	100
45) 1,4-Dioxane	9.20	88	22017	422.750	ug/l	94
46) Methyl methacrylate	9.20	41	48863	20.203	ug/l	99
47) n-amyl Acetate	12.07	43	79158	19.661	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	63343	19.962	ug/l	100
49) cis-1,3-Dichloropropene	9.84	75	76268	20.526	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	55559	22.214	ug/l	98
51) Ethyl methacrylate	10.43	69	76650	20.257	ug/l	97
52) 1,3-Dichloropropane	10.71	76	89972	22.190	ug/l	99
53) Dibromochloromethane	10.90	129	56730	23.171	ug/l	99
54) 1,2-Dibromoethane	11.00	107	57004	21.842	ug/l	98
55) 2-Chloroethyl vinyl ether	9.70	63	123092	92.875	ug/l	99
56) Bromoform	12.13	173	40743	23.003	ug/l #	96
58) 4-Methyl-2-Pentanone	9.99	43	339202	106.095	ug/l	98
59) 2-Hexanone	10.75	43	236667	103.568	ug/l	99
61) Tetrachloroethene	10.63	164	62035	21.081	ug/l	98
62) Toluene	10.16	91	227126	19.927	ug/l	99
64) Chlorobenzene	11.43	112	141176	20.420	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	53070	21.288	ug/l	99
66) Ethyl Benzene	11.51	91	235968	19.437	ug/l	100
67) m/p-Xylenes	11.62	106	183211	39.428	ug/l	99
68) o-Xylene	11.95	106	91385	20.088	ug/l	100
69) Styrene	11.96	104	143605	19.430	ug/l	99
70) Isopropylbenzene	12.25	105	237219	19.958	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	77717	21.688	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	65304m	21.051	ug/l	
73) Bromobenzene	12.53	156	65098	20.634	ug/l	97
74) n-propylbenzene	12.59	91	242050	19.298	ug/l	100
75) 2-Chlorotoluene	12.67	91	155747	20.019	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	194002	19.843	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	14280	16.133	ug/l	89
78) 4-Chlorotoluene	12.77	91	140730	19.369	ug/l	99
79) tert-butylbenzene	12.99	119	172241	19.885	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	185657	19.521	ug/l	99
81) sec-Butylbenzene	13.17	105	216809	19.786	ug/l	100
82) p-Isopropyltoluene	13.29	119	192588	19.440	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	93014	18.919	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	86155	18.396	ug/l	99
85) n-Butylbenzene	13.61	91	124479	16.835	ug/l	98
86) Hexachloroethane	13.87	117	32139	20.809	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	97653	19.540	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	10655	18.942	ug/l	95
89) 1,2,4-Trichlorobenzene	14.91	180	34238	18.322	ug/l	99
90) Hexachlorobutadiene	15.01	225	40427	22.159	ug/l	99
91) Naphthalene	15.13	128	87092	13.122	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	42017	16.062	ug/l	99

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

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