

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061219\
 Data File : VN056235.D
 Acq On : 12 Jun 2019 8:56
 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
 6/13/2019 9:42:05 AM

Quant Time: Jun 13 04:44:04 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	49308	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	246385	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	223039	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	89886	29.36	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.87%
60) 4-Bromofluorobenzene	12.40	95	96057	29.06	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.87%
63) Toluene-d8	10.09	98	306781	30.32	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.07%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	60736	21.900	ug/l 99
3) Chloromethane	2.06	50	65987	20.365	ug/l 97
4) Vinyl Chloride	2.18	62	65668	19.877	ug/l 98
5) Bromomethane	2.54	94	43412	20.909	ug/l 96
6) Chloroethane	2.69	64	36792	19.689	ug/l 94
7) Trichlorofluoromethane	3.01	101	86426	21.144	ug/l 97
8) Diethyl Ether	3.40	74	32168	18.556	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	55225	21.887	ug/l 98
10) 1,1-Dichloroethene	3.72	96	51505	20.011	ug/l 97
11) Methyl Iodide	3.94	142	76080	18.735	ug/l 99
12) Methyl Acetate	4.33	43	56786	18.360	ug/l 100
13) Acrolein	3.59	56	13437	89.133	ug/l 98
14) Acrylonitrile	4.99	53	128472	93.143	ug/l 99
15) Acetone	3.82	58	55937	123.857	ug/l 99
16) Carbon Disulfide	4.04	76	130419	21.296	ug/l 98
17) Allyl chloride	4.31	41	78698	19.734	ug/l 97
18) Methylene Chloride	4.54	84	58766	19.722	ug/l 97
19) trans-1,2-Dichloroethene	5.03	96	54767	19.934	ug/l 99
20) Diisopropyl ether	5.95	45	160657	19.444	ug/l 98
21) 1,1-Dichloroethane	5.84	63	96103	20.014	ug/l 99
22) cis-1,2-Dichloroethene	6.82	96	62944	19.629	ug/l 98
23) tert-Butyl Alcohol	4.81	59	41806	77.869	ug/l # 100
24) Methyl tert-Butyl Ether	5.04	73	153082	18.662	ug/l 99
25) Chloroform	7.37	83	99608	20.774	ug/l 99
26) Cyclohexane	7.65	56	88140	19.785	ug/l # 100
29) 1,1-Dichloropropene	7.79	75	73764	22.133	ug/l 99
30) 2-Butanone	6.84	43	191888	109.367	ug/l 99
31) 2,2-Dichloropropane	6.82	77	67395	21.737	ug/l 99
32) 1,1,1-Trichloroethane	7.57	97	81970	22.261	ug/l 99
33) Carbon Tetrachloride	7.77	117	72233	23.154	ug/l 99
34) Benzene	8.04	78	227151	21.391	ug/l 99
35) Methacrylonitrile	7.17	41	30329	20.471	ug/l 97
36) 1,2-Dichloroethane	8.12	62	72958	21.934	ug/l 97
37) Trichloroethene	8.83	130	64169	21.595	ug/l 100
38) Methylcyclohexane	9.08	83	91077	21.556	ug/l 100
39) 1,2-Dichloropropane	9.12	63	59068	21.719	ug/l 93
40) Dibromomethane	9.21	93	40105	22.240	ug/l 100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	74377	23.034	ug/l	100
42) Vinyl Acetate	5.89	43	642064	102.645	ug/l	99
43) Ethyl Acetate	6.93	43	67371	20.063	ug/l	97
44) Isopropyl Acetate	8.17	43	99731	19.129	ug/l	98
45) 1,4-Dioxane	9.20	88	20897	374.682	ug/l	94
46) Methyl methacrylate	9.20	41	50850	19.633	ug/l	98
47) n-amyl Acetate	12.07	43	80000	18.554	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	68171	20.061	ug/l	97
49) cis-1,3-Dichloropropene	9.84	75	82849	20.821	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	57659	21.528	ug/l	99
51) Ethyl methacrylate	10.43	69	77716	19.179	ug/l	100
52) 1,3-Dichloropropane	10.71	76	92269	21.250	ug/l	99
53) Dibromochloromethane	10.90	129	61424	23.428	ug/l	97
54) 1,2-Dibromoethane	11.00	107	57631	20.620	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	122732	86.473	ug/l	100
56) Bromoform	12.12	173	43618	22.996	ug/l #	96
58) 4-Methyl-2-Pentanone	9.98	43	332119	98.337	ug/l	97
59) 2-Hexanone	10.75	43	244885	101.445	ug/l	98
61) Tetrachloroethene	10.63	164	68751	22.117	ug/l	96
62) Toluene	10.15	91	246520	20.474	ug/l	98
64) Chlorobenzene	11.43	112	150838	20.653	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	57221	21.728	ug/l	99
66) Ethyl Benzene	11.51	91	263460	20.544	ug/l	98
67) m/p-Xylenes	11.62	106	204604	41.682	ug/l	99
68) o-Xylene	11.95	106	98328	20.461	ug/l	98
69) Styrene	11.96	104	158303	20.275	ug/l	99
70) Isopropylbenzene	12.25	105	263997	21.026	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.50	83	77552	20.487	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	68457m	20.890	ug/l	
73) Bromobenzene	12.52	156	69953	20.990	ug/l	97
74) n-propylbenzene	12.59	91	275149	20.766	ug/l	99
75) 2-Chlorotoluene	12.67	91	171134	20.823	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	217888	21.097	ug/l	100
77) t-1,4-Dichloro-2-butene	12.30	75	16757	17.921	ug/l	93
78) 4-Chlorotoluene	12.77	91	154979	20.192	ug/l	99
79) tert-butylbenzene	12.99	119	192318	21.018	ug/l	100
80) 1,2,4-Trimethylbenzene	13.04	105	209701	20.872	ug/l	100
81) sec-Butylbenzene	13.17	105	246187	21.268	ug/l	100
82) p-Isopropyltoluene	13.29	119	217265	20.760	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	106964	20.595	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	97608	19.730	ug/l	99
85) n-Butylbenzene	13.61	91	145519	18.631	ug/l	99
86) Hexachloroethane	13.87	117	36993	22.674	ug/l	94
87) 1,2-Dichlorobenzene	13.65	146	107879	20.435	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	10892	18.330	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	39747	19.289	ug/l	98
90) Hexachlorobutadiene	15.01	225	46581	24.170	ug/l	100
91) Naphthalene	15.13	128	95951	13.685	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	46435	16.803	ug/l	98

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

