

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111318\
 Data File : VN052302.D
 Acq On : 13 Nov 2018 22:10
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 11/14/2018 11:10:38 AM

Quant Time: Nov 14 02:57:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Nov 02 05:39:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	45113	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	264542	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	235639	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	112033	33.46	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	111.53%
60) 4-Bromofluorobenzene	12.40	95	109288	28.99	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.63%
63) Toluene-d8	10.09	98	336428	30.36	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	69792	23.163	ug/l 100
3) Chloromethane	2.06	50	81258	23.597	ug/l 98
4) Vinyl Chloride	2.19	62	70682	20.924	ug/l 99
5) Bromomethane	2.58	94	38896	16.869	ug/l 98
6) Chloroethane	2.71	64	37920	17.556	ug/l 98
7) Trichlorofluoromethane	3.02	101	94290	20.612	ug/l 100
8) Diethyl Ether	3.41	74	33510	21.695	ug/l 84
9) 1,1,2-Trichlorotrifluoroet	3.76	101	57327	21.441	ug/l 97
10) 1,1-Dichloroethene	3.74	96	52238	20.939	ug/l 95
11) Methyl Iodide	3.96	142	74104	20.544	ug/l 99
12) Methyl Acetate	4.33	43	56998	27.143	ug/l 91
13) Acrolein	3.61	56	18461	82.885	ug/l 99
14) Acrylonitrile	4.99	53	108834	116.872	ug/l 98
15) Acetone	3.82	58	24784	112.609	ug/l 77
16) Carbon Disulfide	4.06	76	142547	19.351	ug/l 99
17) Allyl chloride	4.33	41	93439	22.059	ug/l 96
18) Methylene Chloride	4.55	84	63778	20.712	ug/l # 85
19) trans-1,2-Dichloroethene	5.05	96	55854	20.433	ug/l 99
20) Diisopropyl ether	5.95	45	229016	24.881	ug/l 96
21) 1,1-Dichloroethane	5.85	63	119049	22.131	ug/l 99
22) cis-1,2-Dichloroethene	6.83	96	65677	20.576	ug/l 94
23) tert-Butyl Alcohol	4.78	59	18890	130.195	ug/l # 99
24) Methyl tert-Butyl Ether	5.05	73	156784	22.168	ug/l 96
25) Chloroform	7.37	83	114408	21.182	ug/l 94
26) Cyclohexane	7.65	56	103290	21.420	ug/l # 87
29) 1,1-Dichloropropene	7.80	75	86133	20.508	ug/l 98
30) 2-Butanone	6.84	43	135151	120.833	ug/l # 82
31) 2,2-Dichloropropane	6.83	77	78277	18.093	ug/l 97
32) 1,1,1-Trichloroethane	7.57	97	94091	20.022	ug/l 98
33) Carbon Tetrachloride	7.78	117	79899	19.118	ug/l 95
34) Benzene	8.04	78	253986	20.653	ug/l 95
35) Methacrylonitrile	7.17	41	31888	20.786	ug/l # 73
36) 1,2-Dichloroethane	8.13	62	88788	21.594	ug/l 100
37) Trichloroethene	8.84	130	60947	19.801	ug/l 93
38) Methylcyclohexane	9.08	83	96029	18.743	ug/l 94
39) 1,2-Dichloropropane	9.12	63	72860	22.257	ug/l 90
40) Dibromomethane	9.21	93	41840	20.735	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	83422	20.206	ug/l	99
42) Vinyl Acetate	5.90	43	777695	118.770	ug/l	96
43) Ethyl Acetate	6.84	43	135151	24.044	ug/l #	86
44) Isopropyl Acetate	8.17	43	125449	26.956	ug/l #	86
45) 1,4-Dioxane	9.20	88	9414	443.417	ug/l #	68
46) Methyl methacrylate	9.20	41	58329	25.179	ug/l	89
47) n-amyl Acetate	12.07	43	96374	22.845	ug/l #	100
48) t-1,3-Dichloropropene	10.38	75	81939	19.987	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	95956	20.279	ug/l #	88
50) 1,1,2-Trichloroethane	10.56	97	54363	20.374	ug/l	95
51) Ethyl methacrylate	10.43	69	71722	20.798	ug/l	79
52) 1,3-Dichloropropane	10.71	76	98229	21.135	ug/l	99
53) Dibromochloromethane	10.90	129	57756	20.050	ug/l	98
54) 1,2-Dibromoethane	11.01	107	54262	20.054	ug/l	96
55) 2-Chloroethyl vinyl ether	9.70	63	198739	105.245	ug/l	98
56) Bromoform	12.13	173	33018	19.846	ug/l	98
58) 4-Methyl-2-Pentanone	9.99	43	318722	126.227	ug/l	95
59) 2-Hexanone	10.75	43	209419	120.456	ug/l	94
61) Tetrachloroethene	10.63	164	54524	21.276	ug/l	92
62) Toluene	10.16	91	273737	20.694	ug/l	100
64) Chlorobenzene	11.43	112	164615	19.636	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	57259	20.067	ug/l	96
66) Ethyl Benzene	11.51	91	285704	19.996	ug/l	96
67) m/p-Xylenes	11.62	106	213027	38.725	ug/l	99
68) o-Xylene	11.95	106	104783	19.979	ug/l	96
69) Styrene	11.96	104	164867	19.508	ug/l	96
70) Isopropylbenzene	12.25	105	275282	19.553	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	68698	22.184	ug/l	98
72) 1,2,3-Trichloropropane	12.55	75	61050m	22.422	ug/l	
73) Bromobenzene	12.53	156	61725	19.786	ug/l	99
74) n-propylbenzene	12.59	91	316208	19.287	ug/l	99
75) 2-Chlorotoluene	12.67	91	189762	20.076	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	222363	19.696	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	16314	19.149	ug/l	90
78) 4-Chlorotoluene	12.77	91	189253	19.882	ug/l	98
79) tert-butylbenzene	12.99	119	192625	19.587	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	221154	19.664	ug/l	99
81) sec-Butylbenzene	13.17	105	262270	19.379	ug/l	98
82) p-Isopropyltoluene	13.29	119	221654	19.380	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	108948	19.743	ug/l	96
84) 1,4-Dichlorobenzene	13.36	146	104978	19.217	ug/l	97
85) n-Butylbenzene	13.62	91	185405	18.729	ug/l	98
86) Hexachloroethane	13.87	117	38135	19.758	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	106140	20.245	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.27	75	8717	20.586	ug/l #	87
89) 1,2,4-Trichlorobenzene	14.91	180	43560	20.468	ug/l	99
90) Hexachlorobutadiene	15.01	225	23510	20.191	ug/l	100
91) Naphthalene	15.13	128	98236	20.026	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	39474	21.282	ug/l	97

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

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