

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051420\
 Data File : VN061408.D
 Acq On : 14 May 2020 21:34
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 5/15/2020 2:11:13 PM

Quant Time: May 15 07:47:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N051420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 14 16:04:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.15	128	17255	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	105498	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	95295	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	49474	32.02	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.73%
60) 4-Bromofluorobenzene	12.38	95	47930	29.46	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.20%
63) Toluene-d8	10.06	98	133221	30.19	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	14638	18.632	ug/l 97
3) Chloromethane	2.03	50	30411	21.171	ug/l 99
4) Vinyl Chloride	2.16	62	42303	21.969	ug/l 99
5) Bromomethane	2.54	94	21993	22.486	ug/l 100
6) Chloroethane	2.68	64	28421	21.815	ug/l 97
7) Trichlorofluoromethane	2.99	101	34858	16.914	ug/l 99
8) Diethyl Ether	3.37	74	13348	20.365	ug/l 96
9) 1,1,2-Trichlorotrifluoroet	3.72	101	18120	20.583	ug/l 96
10) 1,1-Dichloroethene	3.70	96	18769	20.251	ug/l 93
11) Methyl Iodide	3.91	142	20688	20.624	ug/l 97
12) Methyl Acetate	4.28	43	24140	21.446	ug/l 98
13) Acrolein	3.57	56	17433	91.982	ug/l 95
14) Acrylonitrile	4.93	53	55162	104.402	ug/l 98
15) Acetone	3.78	58	12041	94.901	ug/l 97
16) Carbon Disulfide	4.01	76	57234	21.967	ug/l 100
17) Allyl chloride	4.28	41	38011	20.375	ug/l 98
18) Methylene Chloride	4.50	84	22677	20.274	ug/l 91
19) trans-1,2-Dichloroethene	4.99	96	21676	19.651	ug/l 96
20) Diisopropyl ether	5.91	45	87926	20.246	ug/l 94
21) 1,1-Dichloroethane	5.80	63	46499	20.505	ug/l 98
22) cis-1,2-Dichloroethene	6.78	96	25588	19.784	ug/l 94
23) tert-Butyl Alcohol	4.73	59	17179	101.432	ug/l # 100
24) Methyl tert-Butyl Ether	4.99	73	77226	20.531	ug/l 98
25) Chloroform	7.33	83	44445	20.218	ug/l 99
26) Cyclohexane	7.62	56	44041	20.338	ug/l # 98
29) 1,1-Dichloropropene	7.75	75	35337	19.088	ug/l 97
30) 2-Butanone	6.79	43	76561	97.764	ug/l 98
31) 2,2-Dichloropropane	6.78	77	39110	18.083	ug/l 96
32) 1,1,1-Trichloroethane	7.53	97	40318	19.465	ug/l 98
33) Carbon Tetrachloride	7.73	117	29541	18.580	ug/l 96
34) Benzene	8.00	78	100847	19.255	ug/l 98
35) Methacrylonitrile	7.13	41	14846	18.901	ug/l 88
36) 1,2-Dichloroethane	8.09	62	39772	19.782	ug/l 100
37) Trichloroethene	8.80	130	25252	19.581	ug/l 99
38) Methylcyclohexane	9.05	83	41364	18.612	ug/l 96
39) 1,2-Dichloropropane	9.09	63	27878	19.362	ug/l 98
40) Dibromomethane	9.18	93	17547	19.731	ug/l 91

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.37	83	36935	19.144	ug/l	99
42) Vinyl Acetate	5.84	43	364829	98.100	ug/l	100
43) Ethyl Acetate	6.88	43	33300	19.907	ug/l #	91
44) Isopropyl Acetate	8.13	43	63910	19.678	ug/l #	87
45) 1,4-Dioxane	9.17	88	5328	415.702	ug/l	97
46) Methyl methacrylate	9.17	41	30022	19.657	ug/l	98
47) n-amyl Acetate	12.05	43	56551	19.522	ug/l	97
48) t-1,3-Dichloropropene	10.36	75	42878	18.833	ug/l	98
49) cis-1,3-Dichloropropene	9.81	75	44890	18.640	ug/l	93
50) 1,1,2-Trichloroethane	10.54	97	24033	19.544	ug/l	99
51) Ethyl methacrylate	10.40	69	40952	19.331	ug/l	92
52) 1,3-Dichloropropane	10.68	76	44157	19.666	ug/l	99
53) Dibromochloromethane	10.87	129	24939	18.510	ug/l	99
54) 1,2-Dibromoethane	10.98	107	24148	19.032	ug/l	98
55) 2-Chloroethyl vinyl ether	9.66	63	92666	98.835	ug/l	99
56) Bromoform	12.10	173	15423	18.202	ug/l #	98
58) 4-Methyl-2-Pentanone	9.95	43	178996	103.078	ug/l	98
59) 2-Hexanone	10.72	43	126258	102.790	ug/l	99
61) Tetrachloroethene	10.60	164	22851	19.175	ug/l	96
62) Toluene	10.13	91	107683	19.488	ug/l	97
64) Chlorobenzene	11.41	112	63759	19.495	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.48	131	22905	19.167	ug/l	99
66) Ethyl Benzene	11.48	91	124312	19.604	ug/l	98
67) m/p-Xylenes	11.60	106	90636	38.706	ug/l	99
68) o-Xylene	11.92	106	44027	19.700	ug/l	100
69) Styrene	11.94	104	72720	18.910	ug/l	98
70) Isopropylbenzene	12.22	105	116061	19.167	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.48	83	32858	19.642	ug/l	97
72) 1,2,3-Trichloropropane	12.53	75	31112m	19.500	ug/l	
73) Bromobenzene	12.50	156	23558	18.730	ug/l	87
74) n-propylbenzene	12.57	91	137284	19.068	ug/l	99
75) 2-Chlorotoluene	12.65	91	79464	19.247	ug/l	96
76) 1,3,5-Trimethylbenzene	12.71	105	96518	18.994	ug/l	98
77) t-1,4-Dichloro-2-butene	12.27	75	11962	18.014	ug/l	93
78) 4-Chlorotoluene	12.75	91	82066	18.982	ug/l	99
79) tert-butylbenzene	12.97	119	81027	19.195	ug/l	97
80) 1,2,4-Trimethylbenzene	13.01	105	97257	19.175	ug/l	98
81) sec-Butylbenzene	13.15	105	112652	19.372	ug/l	99
82) p-Isopropyltoluene	13.26	119	99052	18.916	ug/l	98
83) 1,3-Dichlorobenzene	13.26	146	43415	18.573	ug/l	97
84) 1,4-Dichlorobenzene	13.34	146	43015	18.593	ug/l	97
85) n-Butylbenzene	13.59	91	89756	18.515	ug/l	97
86) Hexachloroethane	13.85	117	13351	18.290	ug/l	80
87) 1,2-Dichlorobenzene	13.63	146	41525	18.727	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	14.25	75	7066	19.819	ug/l	91
89) 1,2,4-Trichlorobenzene	14.89	180	23730	18.627	ug/l	99
90) Hexachlorobutadiene	14.99	225	9611	18.519	ug/l	97
91) Naphthalene	15.11	128	76621	19.122	ug/l	100
92) 1,2,3-Trichlorobenzene	15.29	180	23039	18.620	ug/l	97

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

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