

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070319\
 Data File : VN056576.D
 Acq On : 3 Jul 2019 9:33
 Operator : JC/SP
 Sample : VSTDICCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 7/8/2019 10:04:47 AM

Quant Time: Jul 03 10:46:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N070319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 03 10:43:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	50099	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	277646	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	240074	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	103875	33.39	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	111.30%
60) 4-Bromofluorobenzene	12.40	95	107728	30.27	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.90%
63) Toluene-d8	10.09	98	340921	31.30	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.33%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	50103	17.781	ug/l 97
3) Chloromethane	2.06	50	70896	21.534	ug/l 99
4) Vinyl Chloride	2.18	62	66131	19.701	ug/l 99
5) Bromomethane	2.54	94	38209m	18.112	ug/l
6) Chloroethane	2.69	64	36934	19.453	ug/l 93
7) Trichlorofluoromethane	3.01	101	86508	20.830	ug/l 97
8) Diethyl Ether	3.41	74	36313	20.616	ug/l 97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	54306	21.183	ug/l 96
10) 1,1-Dichloroethene	3.73	96	53690	20.530	ug/l 95
11) Methyl Iodide	3.95	142	71363	17.296	ug/l 98
12) Methyl Acetate	4.33	43	67892	21.604	ug/l 98
13) Acrolein	3.61	56	34700	226.544	ug/l 95
14) Acrylonitrile	4.99	53	156750	111.850	ug/l 100
15) Acetone	3.82	58	45275	98.666	ug/l 95
16) Carbon Disulfide	4.05	76	121104	19.462	ug/l 100
17) Allyl chloride	4.32	41	90320	22.291	ug/l 98
18) Methylene Chloride	4.55	84	62738	20.722	ug/l 95
19) trans-1,2-Dichloroethene	5.04	96	57605	20.636	ug/l 90
20) Diisopropyl ether	5.95	45	193319	23.028	ug/l 96
21) 1,1-Dichloroethane	5.85	63	109134	22.369	ug/l 98
22) cis-1,2-Dichloroethene	6.83	96	67290	20.653	ug/l 93
23) tert-Butyl Alcohol	4.80	59	53740	98.517	ug/l # 100
24) Methyl tert-Butyl Ether	5.05	73	173094	20.769	ug/l 98
25) Chloroform	7.37	83	107019	21.967	ug/l 99
26) Cyclohexane	7.65	56	99292	21.937	ug/l # 95
29) 1,1-Dichloropropene	7.79	75	79026	21.042	ug/l 97
30) 2-Butanone	6.84	43	224423	113.508	ug/l 96
31) 2,2-Dichloropropane	6.82	77	74918	21.443	ug/l 96
32) 1,1,1-Trichloroethane	7.57	97	84559	20.379	ug/l 99
33) Carbon Tetrachloride	7.78	117	70017	19.917	ug/l 99
34) Benzene	8.04	78	248663	20.780	ug/l 99
35) Methacrylonitrile	7.18	41	41307	24.741	ug/l 95
36) 1,2-Dichloroethane	8.12	62	80724	21.537	ug/l 98
37) Trichloroethene	8.84	130	63999	19.113	ug/l 92
38) Methylcyclohexane	9.08	83	98654	20.720	ug/l 98
39) 1,2-Dichloropropane	9.12	63	67444	22.007	ug/l 95
40) Dibromomethane	9.21	93	41461	20.404	ug/l 92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	74550	20.488	ug/l	99
42) Vinyl Acetate	5.90	43	779843	110.634	ug/l	98
43) Ethyl Acetate	6.93	43	85834	22.684	ug/l	95
44) Isopropyl Acetate	8.17	43	130520	22.215	ug/l	99
45) 1,4-Dioxane	9.20	88	26348	419.227	ug/l	90
46) Methyl methacrylate	9.20	41	63109	21.622	ug/l	97
47) n-amyl Acetate	12.07	43	105308	21.674	ug/l	95
48) t-1,3-Dichloropropene	10.38	75	77512	20.242	ug/l	96
49) cis-1,3-Dichloropropene	9.84	75	91006	20.296	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	61052	20.228	ug/l	97
51) Ethyl methacrylate	10.43	69	94871	20.777	ug/l	96
52) 1,3-Dichloropropane	10.71	76	102933	21.036	ug/l	99
53) Dibromochloromethane	10.90	129	57612	19.500	ug/l	98
54) 1,2-Dibromoethane	11.00	107	62199	19.749	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	242654	151.716	ug/l	98
56) Bromoform	12.13	173	39596	18.525	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	423972	116.626	ug/l	96
59) 2-Hexanone	10.75	43	311940	120.054	ug/l	98
61) Tetrachloroethene	10.63	164	59818	17.878	ug/l	97
62) Toluene	10.16	91	263335	20.319	ug/l	99
64) Chlorobenzene	11.43	112	156536	19.913	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	55454	19.563	ug/l	99
66) Ethyl Benzene	11.51	91	280960	20.354	ug/l	98
67) m/p-Xylenes	11.62	106	207524	39.277	ug/l	93
68) o-Xylene	11.95	106	102728	19.860	ug/l	96
69) Styrene	11.96	104	170096	20.240	ug/l	97
70) Isopropylbenzene	12.25	105	270304	20.001	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	88736	21.778	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	78187m	22.166	ug/l	
73) Bromobenzene	12.53	156	68857	19.195	ug/l	91
74) n-propylbenzene	12.59	91	298170	20.906	ug/l	97
75) 2-Chlorotoluene	12.67	91	181973	20.571	ug/l	97
76) 1,3,5-Trimethylbenzene	12.73	105	227213	20.439	ug/l	98
77) t-1,4-Dichloro-2-butene	12.30	75	21214	21.077	ug/l	89
78) 4-Chlorotoluene	12.77	91	175184	21.205	ug/l	98
79) tert-butylbenzene	12.99	119	192694	19.565	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	222403	20.566	ug/l	99
81) sec-Butylbenzene	13.17	105	254658	20.439	ug/l	98
82) p-Isopropyltoluene	13.29	119	227696	20.213	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	111020	19.859	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	106630	20.024	ug/l	98
85) n-Butylbenzene	13.61	91	184510	21.946	ug/l	97
86) Hexachloroethane	13.87	117	32408	18.454	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	116288	20.464	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	14719	23.013	ug/l	91
89) 1,2,4-Trichlorobenzene	14.91	180	56175	20.267	ug/l	99
90) Hexachlorobutadiene	15.01	225	39559	19.070	ug/l	98
91) Naphthalene	15.13	128	156855	20.784	ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	61051	20.525	ug/l	98

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

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