

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N071320W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Tue Jul 14 00:52:57 2020
 Response Via : Initial Calibration

Calibration Files

5 =VN062507.D 20 =VN062508.D 50 =VN062509.D
 100 =VN062510.D 150 =VN062511.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.608	1.755	1.981	1.673	1.837	1.771	8.22
3) M	Chloromethane	2.442	2.496	2.818	2.353	2.675	2.557	7.34
4) M	Vinyl Chloride	2.159	2.197	2.485	2.072	2.263	2.235	6.96
5) M	Bromomethane	1.179	1.030	1.206	1.026	1.103	1.109	7.48
6) M	Chloroethane	1.037	1.104	1.216	1.028	1.116	1.100	6.87
7) M	Trichlorofluorometh	2.631	2.680	2.869	2.452	2.466	2.619	6.56
8) T	Diethyl Ether	1.182	1.259	1.408	1.179	1.267	1.259	7.39
9)	1,1,2-Trichlorotrif	1.678	1.675	1.854	1.562	1.697	1.693	6.16
10) M	1,1-Dichloroethene	1.694	1.700	1.907	1.598	1.739	1.728	6.55
11)	Methyl Iodide	1.494	2.028	2.447	2.154	2.455	2.116	18.62
12)	Methyl Acetate	2.280	2.254	2.535	2.172	2.343	2.317	5.90
13) M	Acrolein	0.204	0.351	0.422	0.361	0.393	0.346	24.39
14) M	Acrylonitrile	0.967	1.049	1.223	1.033	1.115	1.078	8.98
15) M	Acetone	0.301	0.385	0.378	0.293	0.297	0.331	14.10
16) M	Carbon Disulfide	5.501	5.464	6.219	5.221	5.744	5.630	6.72
17)	Allyl chloride	3.476	3.785	3.914	3.250	3.945	3.674	8.19
18) M	Methylene Chloride	2.114	2.132	2.340	1.928	2.115	2.126	6.88
19) M	trans-1,2-Dichloroe	1.898	1.866	2.131	1.764	1.901	1.912	7.04
20) T	Diisopropyl ether	7.213	7.566	8.451	6.994	7.541	7.553	7.36
21) M	1,1-Dichloroethane	3.832	3.969	4.423	3.705	4.036	3.993	6.81
22) M	cis-1,2-Dichloroeth	2.076	2.126	2.373	2.007	2.199	2.156	6.49
23) M	tert-Butyl Alcohol	0.326	0.364	0.397	0.347	0.369	0.361	7.36
24) M	Methyl tert-Butyl E	5.945	6.279	7.154	5.997	6.471	6.369	7.66
25) M	Chloroform	3.559	3.616	4.074	3.394	3.666	3.662	6.89
26)	Cyclohexane	3.211	3.449	3.950	3.351	3.638	3.520	8.13
27) s	1,2-Dichloroethane-	2.596	2.594	2.584	2.600	2.512	2.577	1.43

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.469	0.500	0.573	0.473	0.529	0.509	8.50
30) M	2-Butanone	0.241	0.287	0.302	0.250	0.269	0.270	9.44
31)	2,2-Dichloropropane	0.553	0.579	0.637	0.523	0.577	0.574	7.37
32) M	1,1,1-Trichloroetha	0.519	0.546	0.610	0.503	0.558	0.547	7.56
33) M	Carbon Tetrachlorid	0.449	0.470	0.525	0.439	0.487	0.474	7.21
34) M	Benzene	1.427	1.510	1.686	1.389	1.547	1.512	7.66
35)	Methacrylonitrile	0.175	0.246	0.257	0.241	0.266	0.237	15.23
36) M	1,2-Dichloroethane	0.532	0.537	0.602	0.496	0.550	0.543	7.09
37) M	Trichloroethene	0.313	0.337	0.379	0.316	0.352	0.340	8.06
38)	Methylcyclohexane	0.530	0.552	0.632	0.540	0.599	0.571	7.59
39) M	1,2-Dichloropropane	0.406	0.432	0.479	0.395	0.442	0.431	7.61
40)	Dibromomethane	0.237	0.249	0.274	0.227	0.255	0.248	7.19
41) M	Bromodichloromethan	0.488	0.524	0.585	0.488	0.547	0.526	7.81
42) M	Vinyl Acetate	1.026	1.137	1.278	1.045	1.120	1.121	8.89
43)	Ethyl Acetate	0.498	0.542	0.605	0.512	0.555	0.543	7.73
44)	Isopropyl Acetate	0.814	0.898	1.028	0.858	0.954	0.910	9.18
45) T	1,4-Dioxane	0.005	0.006	0.007	0.006	0.006	0.006#	10.08
46)	Methyl methacrylate	0.369	0.428	0.483	0.416	0.464	0.432	10.27
47)	n-amyl Acetate	0.563	0.734	0.896	0.772	0.871	0.767	17.25
48) M	t-1,3-Dichloroprope	0.536	0.597	0.696	0.585	0.656	0.614	10.23
49) T	cis-1,3-Dichloropro	0.599	0.650	0.741	0.625	0.699	0.663	8.65
50) M	1,1,2-Trichloroetha	0.327	0.351	0.387	0.317	0.358	0.348	7.90
51)	Ethyl methacrylate	0.484	0.573	0.672	0.564	0.636	0.586	12.34
52)	1,3-Dichloropropane	0.587	0.639	0.711	0.590	0.666	0.639	8.23

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.332	0.378	0.424	0.360	0.401	0.379	9.41
54) M	1,2-Dibromoethane	0.331	0.345	0.399	0.333	0.373	0.356	8.27
55) M	2-Chloroethyl vinyl	0.122	0.180	0.219	0.192	0.224	0.187	21.88
56) M	Bromoform	0.216	0.254	0.292	0.250	0.283	0.259	11.65
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.522	0.604	0.656	0.550	0.591	0.584	8.81
59) M	2-Hexanone	0.369	0.444	0.484	0.408	0.438	0.429	9.98
60) S	4-Bromofluorobenzene	0.484	0.501	0.516	0.516	0.536	0.511	3.80
61) M	Tetrachloroethene	0.306	0.310	0.331	0.280	0.309	0.307	5.94
62) M	Toluene	1.618	1.734	1.867	1.562	1.729	1.702	6.95
63) S	Toluene-d8	1.431	1.447	1.410	1.397	1.404	1.418	1.46
64) M	Chlorobenzene	0.957	0.984	1.093	0.926	1.040	1.000	6.67
65)	1,1,1,2-Tetrachloro	0.353	0.370	0.404	0.343	0.380	0.370	6.39
66) M	Ethyl Benzene	1.726	1.873	2.085	1.766	1.973	1.885	7.85
67) M	m/p-Xylenes	0.626	0.673	0.753	0.646	0.722	0.684	7.73
68) M	o-Xylene	0.594	0.650	0.722	0.619	0.697	0.656	8.08
69) M	Styrene	0.967	1.090	1.242	1.066	1.207	1.114	9.98
70)	Isopropylbenzene	1.604	1.744	1.956	1.658	1.850	1.762	8.11
71) M	1,1,2,2-Tetrachloro	0.527	0.570	0.629	0.539	0.583	0.570	7.02
72)	1,2,3-Trichloroprop	0.519	0.554	0.608	0.516	0.573	0.554	6.91
73)	Bromobenzene	0.383	0.399	0.445	0.384	0.430	0.408	6.89
74)	n-propylbenzene	1.857	2.030	2.330	2.005	2.252	2.095	9.21
75)	2-Chlorotoluene	1.149	1.238	1.390	1.188	1.342	1.261	8.09
76)	1,3,5-Trimethylbenz	1.353	1.449	1.671	1.429	1.607	1.502	8.79
77)	t-1,4-Dichloro-2-bu	0.170	0.200	0.230	0.208	0.229	0.207	11.86
78)	4-Chlorotoluene	1.114	1.250	1.435	1.235	1.401	1.287	10.18
79)	tert-butylbenzene	1.107	1.219	1.387	1.160	1.344	1.243	9.60
80)	1,2,4-Trimethylbenz	1.274	1.442	1.636	1.425	1.607	1.477	10.00
81)	sec-Butylbenzene	1.494	1.607	1.829	1.608	1.811	1.670	8.67
82)	p-Isopropyltoluene	1.280	1.409	1.631	1.437	1.611	1.474	10.00
83) M	1,3-Dichlorobenzene	0.605	0.682	0.793	0.692	0.771	0.709	10.63
84) M	1,4-Dichlorobenzene	0.598	0.657	0.784	0.690	0.768	0.699	11.10
85)	n-Butylbenzene	1.039	1.138	1.404	1.285	1.454	1.264	13.87
86) T	Hexachloroethane	0.257	0.273	0.306	0.276	0.309	0.284	7.97
87) M	1,2-Dichlorobenzene	0.604	0.662	0.767	0.652	0.723	0.682	9.40
88)	1,2-Dibromo-3-Chlor	0.083	0.107	0.121	0.107	0.120	0.108	14.25
89)	1,2,4-Trichlorobenz	0.213	0.304	0.386	0.361	0.432	0.339	24.93
90)	Hexachlorobutadiene	0.173	0.180	0.213	0.179	0.195	0.188	8.59
91) M	Naphthalene	0.583	0.823	1.035	0.977	1.183	0.920	24.83
92)	1,2,3-Trichlorobenz	0.233	0.314	0.388	0.356	0.419	0.342	21.18

(#) = Out of Range