

Method Path : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\
 Method File : 624N112618W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Tue Nov 27 00:48:33 2018
 Response Via : Initial Calibration

Calibration Files

5 =VN052455.D 20 =VN052456.D 50 =VN052457.D
 100 =VN052458.D 150 =VN052459.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.677	1.764	1.717	1.727	1.657	1.709	2.47
3) M	Chloromethane	2.242	2.280	2.288	2.311	2.210	2.266	1.77
4) M	Vinyl Chloride	2.238	2.298	2.305	2.347	2.247	2.287	1.96
5) M	Bromomethane	1.308	1.291	1.281	1.328	1.312	1.304	1.41
6) M	Chloroethane	1.330	1.381	1.374	1.384	1.331	1.360	2.00
7) M	Trichlorofluorometh	2.866	2.819	2.822	2.839	2.767	2.823	1.29
8) T	Diethyl Ether	1.035	1.015	1.041	1.063	1.056	1.042	1.81
9)	1,1,2-Trichlorotrif	1.840	1.849	1.762	1.773	1.722	1.789	3.03
10) M	1,1-Dichloroethene	1.635	1.671	1.689	1.729	1.688	1.682	2.02
11)	Methyl Iodide	1.817	2.253	2.478	2.573	2.559	2.336	13.58
12)	Methyl Acetate	1.362	1.440	1.416	1.449	1.481	1.429	3.11
13) M	Acrolein	0.154	0.155	0.165	0.175	0.190	0.168	8.82
14) M	Acrylonitrile	0.555	0.626	0.610	0.625	0.630	0.609	5.11
15) M	Acetone	0.156	0.172	0.157	0.150	0.153	0.158	5.22
16) M	Carbon Disulfide	5.224	5.295	5.306	5.458	5.349	5.326	1.62
17)	Allyl chloride	2.596	2.956	3.033	3.146	2.938	2.934	7.02
18) M	Methylene Chloride	2.013	1.936	1.947	1.952	1.892	1.948	2.22
19) M	trans-1,2-Dichloroe	1.766	1.792	1.829	1.852	1.814	1.810	1.84
20) T	Diisopropyl ether	5.845	6.210	6.240	6.363	6.172	6.166	3.13
21) M	1,1-Dichloroethane	3.420	3.496	3.542	3.607	3.505	3.514	1.94
22) M	cis-1,2-Dichloroeth	1.986	2.082	2.096	2.127	2.084	2.075	2.54
23) M	tert-Butyl Alcohol	0.080	0.093	0.089	0.089	0.102	0.091	8.83
24) M	Methyl tert-Butyl E	4.088	4.417	4.407	4.578	4.577	4.413	4.53
25) M	Chloroform	3.404	3.389	3.400	3.424	3.334	3.390	1.00
26)	Cyclohexane	3.116	3.339	3.375	3.409	3.334	3.314	3.48
27) s	1,2-Dichloroethane-	2.073	2.049	2.053	2.057	1.989	2.044	1.58

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.426	0.458	0.463	0.471	0.472	0.458	4.16
30) M	2-Butanone	0.114	0.126	0.123	0.122	0.128	0.123	4.25
31)	2,2-Dichloropropane	0.393	0.412	0.424	0.436	0.444	0.422	4.80
32) M	1,1,1-Trichloroetha	0.458	0.470	0.478	0.486	0.491	0.477	2.75
33) M	Carbon Tetrachlorid	0.393	0.413	0.417	0.429	0.432	0.417	3.70
34) M	Benzene	1.332	1.380	1.385	1.397	1.393	1.377	1.90
35)	Methacrylonitrile	0.130	0.154	0.152	0.161	0.164	0.152	8.56
36) M	1,2-Dichloroethane	0.416	0.416	0.416	0.417	0.421	0.417	0.51
37) M	Trichloroethene	0.346	0.346	0.348	0.352	0.355	0.349	1.16
38)	Methylcyclohexane	0.538	0.575	0.564	0.578	0.581	0.567	3.10
39) M	1,2-Dichloropropane	0.356	0.368	0.374	0.374	0.376	0.369	2.21
40)	Dibromomethane	0.191	0.199	0.199	0.204	0.205	0.200	2.67
41) M	Bromodichloromethan	0.426	0.433	0.441	0.450	0.454	0.441	2.67
42) M	Vinyl Acetate	0.579	0.654	0.666	0.698	0.719	0.663	8.09
43)	Ethyl Acetate	0.233	0.269	0.257	0.267	0.277	0.261	6.56
44)	Isopropyl Acetate	0.395	0.448	0.459	0.479	0.505	0.457	8.97
45) T	1,4-Dioxane	0.002	0.003	0.003	0.002	0.003	0.003#	6.95
46)	Methyl methacrylate	0.199	0.233	0.237	0.252	0.265	0.237	10.51
47)	n-amyl Acetate	0.281	0.357	0.388	0.426	0.442	0.379	16.88
48) M	t-1,3-Dichloroprope	0.358	0.404	0.434	0.462	0.479	0.427	11.27
49) T	cis-1,3-Dichloropro	0.462	0.509	0.523	0.550	0.560	0.521	7.42
50) M	1,1,2-Trichloroetha	0.266	0.288	0.283	0.288	0.289	0.283	3.36
51)	Ethyl methacrylate	0.298	0.341	0.360	0.383	0.395	0.355	10.77
52)	1,3-Dichloropropane	0.482	0.506	0.501	0.514	0.514	0.503	2.67

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Compound		5	20	50	100	150	Avg	%RSD

53) M	Dibromochloromethan	0.280	0.309	0.312	0.325	0.330	0.311	6.31
54) M	1,2-Dibromoethane	0.247	0.274	0.278	0.289	0.295	0.276	6.75
55) M	2-Chloroethyl vinyl	0.173	0.210	0.211	0.222	0.223	0.208	9.81
56) M	Bromoform	0.177	0.198	0.205	0.217	0.221	0.204	8.62
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.264	0.300	0.290	0.297	0.302	0.291	5.31
59) M	2-Hexanone	0.178	0.206	0.199	0.203	0.206	0.199	5.99
60) S	4-Bromofluorobenzen	0.431	0.457	0.462	0.476	0.467	0.459	3.70
61) M	Tetrachloroethene	0.383	0.380	0.364	0.365	0.356	0.369	3.14
62) M	Toluene	1.650	1.675	1.643	1.663	1.638	1.654	0.92
63) S	Toluene-d8	1.418	1.408	1.390	1.379	1.361	1.391	1.64
64) M	Chlorobenzene	0.986	1.008	1.006	1.031	1.015	1.009	1.59
65)	1,1,1,2-Tetrachloro	0.338	0.345	0.349	0.361	0.359	0.350	2.65
66) M	Ethyl Benzene	1.672	1.787	1.793	1.847	1.814	1.782	3.72
67) M	m/p-Xylenes	0.622	0.673	0.667	0.686	0.672	0.664	3.67
68) M	o-Xylene	0.613	0.647	0.643	0.666	0.653	0.645	3.01
69) M	Styrene	0.914	1.044	1.057	1.104	1.081	1.040	7.12
70)	Isopropylbenzene	1.602	1.727	1.727	1.785	1.733	1.715	3.95
71) M	1,1,2,2-Tetrachloro	0.347	0.383	0.372	0.382	0.382	0.373	4.07
72)	1,2,3-Trichloroprop	0.308	0.306	0.321	0.334	0.333	0.320	4.08
73)	Bromobenzene	0.383	0.411	0.416	0.437	0.427	0.415	4.97
74)	n-propylbenzene	1.815	2.028	2.009	2.096	2.043	1.998	5.38
75)	2-Chlorotoluene	1.079	1.176	1.163	1.205	1.176	1.160	4.11
76)	1,3,5-Trimethylbenz	1.286	1.410	1.394	1.433	1.402	1.385	4.14
77)	t-1,4-Dichloro-2-bu	0.079	0.096	0.101	0.112	0.118	0.101	14.94
78)	4-Chlorotoluene	1.027	1.167	1.174	1.223	1.200	1.158	6.63
79)	tert-butylbenzene	1.116	1.228	1.209	1.259	1.220	1.206	4.49
80)	1,2,4-Trimethylbenz	1.232	1.421	1.395	1.457	1.425	1.386	6.42
81)	sec-Butylbenzene	1.553	1.706	1.679	1.753	1.710	1.680	4.51
82)	p-Isopropyltoluene	1.271	1.441	1.441	1.516	1.484	1.431	6.60
83) M	1,3-Dichlorobenzene	0.644	0.728	0.737	0.778	0.761	0.729	7.09
84) M	1,4-Dichlorobenzene	0.596	0.702	0.718	0.760	0.747	0.705	9.21
85)	n-Butylbenzene	1.007	1.232	1.238	1.338	1.329	1.229	10.85
86) T	Hexachloroethane	0.217	0.240	0.241	0.258	0.256	0.242	6.89
87) M	1,2-Dichlorobenzene	0.628	0.704	0.702	0.729	0.709	0.694	5.56
88)	1,2-Dibromo-3-Chlor	0.043	0.051	0.052	0.057	0.058	0.052	10.95
89)	1,2,4-Trichlorobenz	0.210	0.330	0.356	0.398	0.416	0.342	23.82
90)	Hexachlorobutadiene	0.216	0.240	0.216	0.226	0.224	0.224	4.50
91) M	Naphthalene	0.400	0.666	0.720	0.805	0.862	0.691	25.97
92)	1,2,3-Trichlorobenz	0.212	0.308	0.323	0.355	0.377	0.315	20.15

(#) = Out of Range