

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N030119W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Tue Mar 05 00:48:50 2019
 Response Via : Initial Calibration

Calibration Files

5 =VN054016.D 20 =VN054017.D 50 =VN054018.D
 100 =VN054019.D 150 =VN054020.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.858	1.729	1.684	1.602	1.609	1.696	6.18
3) M	Chloromethane	2.335	2.274	2.262	2.207	2.203	2.256	2.42
4) M	Vinyl Chloride	2.401	2.277	2.237	2.193	2.188	2.259	3.86
5) M	Bromomethane	1.525	1.391	1.372	1.331	1.330	1.390	5.77
6) M	Chloroethane	1.413	1.342	1.323	1.298	1.276	1.330	3.94
7) M	Trichlorofluorometh	2.915	2.787	2.747	2.642	2.635	2.745	4.21
8) T	Diethyl Ether	0.983	1.046	1.056	1.039	1.038	1.032	2.74
9)	1,1,2-Trichlorotrif	1.998	1.776	1.732	1.656	1.663	1.765	7.91
10) M	1,1-Dichloroethene	1.722	1.663	1.643	1.621	1.619	1.654	2.57
11)	Methyl Iodide	2.198	2.411	2.518	2.571	2.566	2.453	6.38
12)	Methyl Acetate	1.410	1.336	1.451	1.378	1.396	1.394	3.01
13) M	Acrolein	0.053	0.146	0.129	0.173	0.163	0.133	36.02
14) M	Acrylonitrile	0.626	0.654	0.711	0.679	0.679	0.670	4.71
15) M	Acetone	0.203	0.207	0.204	0.181	0.171	0.193	8.36
16) M	Carbon Disulfide	5.502	5.277	5.387	5.283	5.377	5.365	1.71
17)	Allyl chloride	2.828	2.940	3.072	2.869	2.913	2.924	3.19
18) M	Methylene Chloride	1.991	1.950	1.910	1.856	1.840	1.909	3.32
19) M	trans-1,2-Dichloroe	1.843	1.796	1.821	1.760	1.750	1.794	2.19
20) T	Diisopropyl ether	5.229	5.802	6.061	6.088	6.071	5.850	6.27
21) M	1,1-Dichloroethane	3.563	3.457	3.476	3.399	3.380	3.455	2.09
22) M	cis-1,2-Dichloroeth	1.965	2.005	2.022	1.997	1.997	1.997	1.04
23) M	tert-Butyl Alcohol	0.110	0.115	0.128	0.121	0.126	0.120	6.45
24) M	Methyl tert-Butyl E	4.068	4.350	4.707	4.612	4.646	4.477	5.94
25) M	Chloroform	3.449	3.385	3.363	3.241	3.230	3.334	2.85
26)	Cyclohexane	2.913	3.109	3.246	3.211	3.243	3.144	4.47
27) s	1,2-Dichloroethane-	2.121	2.120	2.142	2.095	2.055	2.107	1.58

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.463	0.466	0.473	0.469	0.479	0.470	1.29
30) M	2-Butanone	0.143	0.147	0.155	0.148	0.149	0.148	3.14
31)	2,2-Dichloropropane	0.482	0.462	0.460	0.454	0.460	0.463	2.29
32) M	1,1,1-Trichloroetha	0.520	0.508	0.503	0.494	0.502	0.505	1.90
33) M	Carbon Tetrachlorid	0.458	0.453	0.443	0.436	0.448	0.448	1.91
34) M	Benzene	1.392	1.408	1.401	1.385	1.397	1.397	0.62
35)	Methacrylonitrile	0.157	0.178	0.161	0.167	0.166	0.166	4.57
36) M	1,2-Dichloroethane	0.482	0.456	0.441	0.432	0.433	0.448	4.67
37) M	Trichloroethene	0.386	0.362	0.359	0.355	0.360	0.365	3.43
38)	Methylcyclohexane	0.524	0.534	0.557	0.570	0.587	0.555	4.66
39) M	1,2-Dichloropropane	0.390	0.389	0.378	0.373	0.383	0.383	1.89
40)	Dibromomethane	0.228	0.219	0.220	0.214	0.215	0.219	2.51
41) M	Bromodichloromethan	0.477	0.463	0.465	0.456	0.465	0.465	1.62
42) M	Vinyl Acetate	0.659	0.743	0.801	0.804	0.825	0.767	8.77
43)	Ethyl Acetate	0.259	0.331	0.318	0.320	0.326	0.311	9.44
44)	Isopropyl Acetate	0.509	0.528	0.557	0.558	0.574	0.545	4.81
45) T	1,4-Dioxane	0.001	0.003	0.004	0.003	0.003	0.003#	30.10
46)	Methyl methacrylate	0.221	0.245	0.271	0.279	0.293	0.262	10.94
47)	n-amyl Acetate	0.288	0.363	0.436	0.438	0.478	0.401	18.83
48) M	t-1,3-Dichloroprope	0.420	0.444	0.473	0.488	0.508	0.467	7.57
49) T	cis-1,3-Dichloropro	0.513	0.536	0.557	0.558	0.576	0.548	4.43
50) M	1,1,2-Trichloroetha	0.319	0.313	0.307	0.298	0.301	0.308	2.79
51)	Ethyl methacrylate	0.290	0.347	0.392	0.402	0.420	0.370	14.05
52)	1,3-Dichloropropane	0.514	0.530	0.538	0.529	0.529	0.528	1.63

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.328	0.332	0.342	0.340	0.349	0.338	2.46
54) M	1,2-Dibromoethane	0.276	0.291	0.300	0.295	0.304	0.293	3.65
55) M	2-Chloroethyl vinyl	0.130	0.158	0.187	0.185	0.199	0.172	16.11
56) M	Bromoform	0.201	0.217	0.229	0.231	0.244	0.224	7.27
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.304	0.331	0.358	0.347	0.350	0.338	6.32
59) M	2-Hexanone	0.196	0.214	0.235	0.228	0.233	0.221	7.41
60) S	4-Bromofluorobenzen	0.431	0.454	0.468	0.466	0.478	0.459	3.92
61) M	Tetrachloroethene	0.481	0.438	0.402	0.386	0.379	0.417	10.19
62) M	Toluene	1.716	1.699	1.676	1.644	1.648	1.677	1.88
63) S	Toluene-d8	1.493	1.470	1.421	1.417	1.416	1.443	2.46
64) M	Chlorobenzene	1.060	1.017	1.008	1.005	1.015	1.021	2.18
65)	1,1,1,2-Tetrachloro	0.391	0.372	0.371	0.368	0.372	0.375	2.51
66) M	Ethyl Benzene	1.686	1.743	1.760	1.771	1.803	1.753	2.45
67) M	m/p-Xylenes	0.617	0.671	0.678	0.661	0.672	0.660	3.73
68) M	o-Xylene	0.611	0.640	0.649	0.643	0.655	0.640	2.65
69) M	Styrene	0.864	1.016	1.057	1.046	1.080	1.013	8.49
70)	Isopropylbenzene	1.601	1.697	1.719	1.672	1.704	1.679	2.78
71) M	1,1,2,2-Tetrachloro	0.406	0.409	0.423	0.414	0.419	0.414	1.63
72)	1,2,3-Trichloroprop	0.305	0.314	0.326	0.314	0.313	0.315	2.38
73)	Bromobenzene	0.412	0.422	0.431	0.420	0.431	0.423	1.88
74)	n-propylbenzene	1.864	2.010	2.047	2.010	2.065	1.999	3.97
75)	2-Chlorotoluene	1.133	1.177	1.194	1.155	1.193	1.171	2.22
76)	1,3,5-Trimethylbenz	1.325	1.441	1.466	1.421	1.457	1.422	3.99
77)	t-1,4-Dichloro-2-bu	0.092	0.102	0.119	0.118	0.130	0.112	13.28
78)	4-Chlorotoluene	1.081	1.179	1.205	1.174	1.218	1.171	4.60
79)	tert-butylbenzene	1.195	1.250	1.264	1.251	1.270	1.246	2.41
80)	1,2,4-Trimethylbenz	1.262	1.433	1.478	1.434	1.469	1.415	6.23
81)	sec-Butylbenzene	1.652	1.720	1.752	1.689	1.732	1.709	2.28
82)	p-Isopropyltoluene	1.337	1.462	1.509	1.467	1.521	1.459	5.00
83) M	1,3-Dichlorobenzene	0.694	0.737	0.771	0.752	0.779	0.747	4.52
84) M	1,4-Dichlorobenzene	0.627	0.700	0.738	0.740	0.758	0.713	7.34
85)	n-Butylbenzene	1.045	1.215	1.345	1.354	1.399	1.272	11.32
86) T	Hexachloroethane	0.273	0.261	0.268	0.274	0.288	0.273	3.58
87) M	1,2-Dichlorobenzene	0.693	0.722	0.751	0.723	0.732	0.724	2.91
88)	1,2-Dibromo-3-Chlor	0.055	0.059	0.065	0.058	0.064	0.060	6.88
89)	1,2,4-Trichlorobenz	0.234	0.325	0.406	0.421	0.453	0.368	24.01
90)	Hexachlorobutadiene	0.291	0.266	0.269	0.258	0.252	0.267	5.56
91) M	Naphthalene	0.378	0.611	0.840	0.871	0.991	0.738	33.05
92)	1,2,3-Trichlorobenz	0.257	0.336	0.392	0.400	0.431	0.363	18.96

(#) = Out of Range