

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N041119W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Fri Apr 12 07:55:25 2019
 Response Via : Initial Calibration

Calibration Files

5 =VN054976.D 20 =VN054977.D 50 =VN054978.D
 100 =VN054979.D 150 =VN054980.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.950	1.831	1.723	1.646	1.672	1.764	7.13
3) M	Chloromethane	2.664	2.368	2.326	2.251	2.307	2.384	6.82
4) M	Vinyl Chloride	2.305	2.066	2.036	1.945	1.953	2.061	7.09
5) M	Bromomethane	1.354	1.173	1.170	1.126	1.138	1.192	7.79
6) M	Chloroethane	1.315	1.149	1.135	1.068	1.104	1.154	8.23
7) M	Trichlorofluorometh	2.879	2.693	2.598	2.511	2.488	2.634	6.05
8) T	Diethyl Ether	0.890	0.842	0.865	0.812	0.819	0.846	3.80
9)	1,1,2-Trichlorotrif	1.637	1.475	1.417	1.337	1.332	1.440	8.71
10) M	1,1-Dichloroethene	1.548	1.340	1.298	1.243	1.226	1.331	9.74
11)	Methyl Iodide	2.023	1.953	2.050	2.006	2.040	2.014	1.90
12)	Methyl Acetate	1.535	1.587	1.683	1.666	1.715	1.637	4.52
13) M	Acrolein	0.157	0.138	0.141	0.139	0.142	0.143	5.39
14) M	Acrylonitrile	0.651	0.641	0.686	0.673	0.702	0.671	3.71
15) M	Acetone	0.172	0.192	0.170	0.151	0.145	0.166	10.99
16) M	Carbon Disulfide	4.479	4.192	4.499	4.467	4.689	4.465	3.98
17)	Allyl chloride	3.186	3.209	3.337	3.285	3.374	3.278	2.47
18) M	Methylene Chloride	2.285	1.932	1.926	1.832	1.862	1.968	9.28
19) M	trans-1,2-Dichloroe	1.753	1.715	1.776	1.701	1.718	1.733	1.79
20) T	Diisopropyl ether	6.695	6.477	6.791	6.570	6.671	6.641	1.82
21) M	1,1-Dichloroethane	3.721	3.516	3.596	3.440	3.463	3.547	3.22
22) M	cis-1,2-Dichloroeth	2.136	1.968	2.028	1.958	1.980	2.014	3.64
23) M	tert-Butyl Alcohol	0.103	0.098	0.104	0.111	0.118	0.107	7.31
24) M	Methyl tert-Butyl E	4.248	4.310	4.555	4.549	4.686	4.470	4.11
25) M	Chloroform	3.547	3.377	3.455	3.302	3.307	3.398	3.07
26)	Cyclohexane	3.408	3.216	3.322	3.240	3.269	3.291	2.32
27) s	1,2-Dichloroethane-	2.307	2.361	2.298	2.224	2.244	2.287	2.38

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.462	0.455	0.484	0.470	0.465	0.467	2.30
30) M	2-Butanone	0.142	0.156	0.163	0.158	0.157	0.155	5.06
31)	2,2-Dichloropropane	0.430	0.412	0.435	0.436	0.437	0.430	2.44
32) M	1,1,1-Trichloroetha	0.506	0.474	0.502	0.495	0.492	0.494	2.47
33) M	Carbon Tetrachlorid	0.447	0.403	0.430	0.431	0.427	0.428	3.66
34) M	Benzene	1.445	1.340	1.408	1.371	1.359	1.385	3.02
35)	Methacrylonitrile	0.156	0.180	0.182	0.197	0.199	0.183	9.49
36) M	1,2-Dichloroethane	0.512	0.462	0.481	0.459	0.452	0.473	5.10
37) M	Trichloroethene	0.374	0.347	0.356	0.345	0.343	0.353	3.61
38)	Methylcyclohexane	0.568	0.527	0.546	0.536	0.532	0.542	2.94
39) M	1,2-Dichloropropane	0.392	0.370	0.392	0.383	0.375	0.382	2.62
40)	Dibromomethane	0.231	0.212	0.217	0.212	0.208	0.216	4.20
41) M	Bromodichloromethan	0.440	0.421	0.458	0.457	0.455	0.446	3.55
42) M	Vinyl Acetate	0.716	0.722	0.816	0.827	0.838	0.784	7.61
43)	Ethyl Acetate	0.315	0.299	0.318	0.321	0.327	0.316	3.31
44)	Isopropyl Acetate	0.493	0.481	0.555	0.565	0.582	0.535	8.44
45) T	1,4-Dioxane	0.003	0.003	0.003	0.003	0.003	0.003#	2.53
46)	Methyl methacrylate	0.240	0.245	0.294	0.295	0.310	0.277	11.55
47)	n-amyl Acetate	0.287	0.347	0.415	0.449	0.473	0.394	19.39
48) M	t-1,3-Dichloroprope	0.343	0.352	0.427	0.451	0.476	0.410	14.55
49) T	cis-1,3-Dichloropro	0.458	0.462	0.522	0.539	0.547	0.506	8.47
50) M	1,1,2-Trichloroetha	0.301	0.282	0.302	0.290	0.292	0.293	2.86
51)	Ethyl methacrylate	0.315	0.305	0.356	0.373	0.400	0.350	11.38
52)	1,3-Dichloropropane	0.504	0.495	0.530	0.522	0.521	0.514	2.84

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.274	0.276	0.311	0.320	0.330	0.302	8.59
54) M	1,2-Dibromoethane	0.264	0.251	0.284	0.286	0.294	0.276	6.48
55) M	2-Chloroethyl vinyl	0.115	0.137	0.151	0.161	0.167	0.146	14.13
56) M	Bromoform	0.166	0.163	0.194	0.208	0.218	0.190	12.87
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.316	0.325	0.361	0.368	0.361	0.346	6.89
59) M	2-Hexanone	0.191	0.216	0.229	0.234	0.229	0.220	8.00
60) S	4-Bromofluorobenzen	0.429	0.454	0.473	0.496	0.483	0.467	5.64
61) M	Tetrachloroethene	0.425	0.397	0.398	0.376	0.357	0.390	6.53
62) M	Toluene	1.732	1.627	1.677	1.640	1.590	1.653	3.28
63) S	Toluene-d8	1.456	1.445	1.440	1.414	1.377	1.426	2.21
64) M	Chlorobenzene	0.995	0.982	1.019	1.002	0.992	0.998	1.38
65)	1,1,1,2-Tetrachloro	0.344	0.337	0.366	0.366	0.361	0.355	3.76
66) M	Ethyl Benzene	1.785	1.717	1.809	1.790	1.759	1.772	1.99
67) M	m/p-Xylenes	0.642	0.652	0.676	0.669	0.654	0.659	2.06
68) M	o-Xylene	0.649	0.639	0.665	0.663	0.639	0.651	1.96
69) M	Styrene	0.961	0.969	1.036	1.051	1.037	1.011	4.21
70)	Isopropylbenzene	1.742	1.725	1.775	1.751	1.708	1.740	1.45
71) M	1,1,2,2-Tetrachloro	0.398	0.388	0.406	0.407	0.392	0.398	2.12
72)	1,2,3-Trichloroprop	0.329	0.328	0.333	0.330	0.323	0.329	1.14
73)	Bromobenzene	0.391	0.400	0.422	0.426	0.418	0.411	3.72
74)	n-propylbenzene	1.806	1.935	2.009	2.013	1.978	1.948	4.38
75)	2-Chlorotoluene	1.148	1.168	1.197	1.197	1.165	1.175	1.83
76)	1,3,5-Trimethylbenz	1.384	1.410	1.430	1.424	1.387	1.407	1.48
77)	t-1,4-Dichloro-2-bu	0.064	0.068	0.084	0.096	0.103	0.083	20.49
78)	4-Chlorotoluene	0.988	1.086	1.167	1.195	1.162	1.120	7.51
79)	tert-butylbenzene	1.197	1.214	1.252	1.232	1.192	1.217	2.03
80)	1,2,4-Trimethylbenz	1.292	1.349	1.433	1.446	1.390	1.382	4.57
81)	sec-Butylbenzene	1.561	1.631	1.666	1.666	1.609	1.627	2.70
82)	p-Isopropyltoluene	1.271	1.371	1.419	1.427	1.376	1.373	4.52
83) M	1,3-Dichlorobenzene	0.584	0.661	0.724	0.745	0.726	0.688	9.62
84) M	1,4-Dichlorobenzene	0.528	0.617	0.691	0.724	0.710	0.654	12.49
85)	n-Butylbenzene	0.886	1.022	1.143	1.221	1.196	1.094	12.71
86) T	Hexachloroethane	0.193	0.207	0.226	0.235	0.239	0.220	8.86
87) M	1,2-Dichlorobenzene	0.591	0.655	0.713	0.721	0.690	0.674	7.85
88)	1,2-Dibromo-3-Chlor	0.042	0.049	0.054	0.060	0.060	0.053	14.59
89)	1,2,4-Trichlorobenz	0.169	0.247	0.327	0.376	0.387	0.301	30.62
90)	Hexachlorobutadiene	0.223	0.227	0.216	0.221	0.210	0.220	2.99
91) M	Naphthalene	0.345	0.475	0.669	0.808	0.858	0.631	34.56
92)	1,2,3-Trichlorobenz	0.200	0.259	0.318	0.361	0.369	0.301	23.73

(#) = Out of Range