

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N060619W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Thu Jun 06 04:02:53 2019
 Response Via : Initial Calibration

Calibration Files

5 =VN056015.D 20 =VN056016.D 50 =VN056017.D
 100 =VN056018.D 150 =VN056019.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.445	1.788	1.704	1.738	1.761	1.687	8.25
3) M	Chloromethane	1.958	1.973	1.979	1.942	2.005	1.971	1.20
4) M	Vinyl Chloride	1.946	2.069	2.017	1.988	2.031	2.010	2.29
5) M	Bromomethane	1.420	1.336	1.289	1.232	1.040	1.263	11.28
6) M	Chloroethane	1.207	1.201	1.176	1.028	1.074	1.137	7.13
7) M	Trichlorofluorometh	2.521	2.543	2.443	2.457	2.472	2.487	1.73
8) T	Diethyl Ether	1.124	1.066	1.021	1.029	1.034	1.055	4.03
9)	1,1,2-Trichlorotrif	1.577	1.559	1.499	1.522	1.519	1.535	2.08
10) M	1,1-Dichloroethene	1.534	1.573	1.558	1.567	1.597	1.566	1.47
11)	Methyl Iodide	2.274	2.412	2.512	2.546	2.610	2.471	5.32
12)	Methyl Acetate	2.266	1.863	1.762	1.749	1.769	1.882	11.67
13) M	Acrolein	0.099	0.088	0.092	0.088	0.092	0.092	4.71
14) M	Acrylonitrile	0.841	0.836	0.828	0.832	0.859	0.839	1.43
15) M	Acetone	0.262	0.296	0.281	0.268	0.267	0.275	4.95
16) M	Carbon Disulfide	3.283	3.493	3.729	3.944	4.181	3.726	9.54
17)	Allyl chloride	2.332	2.364	2.428	2.472	2.537	2.426	3.40
18) M	Methylene Chloride	1.905	1.809	1.782	1.761	1.808	1.813	3.04
19) M	trans-1,2-Dichloroe	1.647	1.701	1.659	1.656	1.695	1.672	1.48
20) T	Diisopropyl ether	4.972	5.076	4.965	4.972	5.150	5.027	1.65
21) M	1,1-Dichloroethane	2.965	2.923	2.890	2.896	2.933	2.921	1.04
22) M	cis-1,2-Dichloroeth	1.939	1.964	1.950	1.930	1.973	1.951	0.91
23) M	tert-Butyl Alcohol	0.353	0.317	0.322	0.319	0.322	0.327	4.62
24) M	Methyl tert-Butyl E	5.025	5.006	4.953	4.944	5.026	4.991	0.79
25) M	Chloroform	2.920	2.936	2.898	2.889	2.943	2.917	0.79
26)	Cyclohexane	2.773	2.712	2.639	2.692	2.735	2.710	1.84
27) s	1,2-Dichloroethane-	1.891	1.889	1.847	1.845	1.843	1.863	1.33

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.404	0.400	0.408	0.409	0.408	0.406	0.93
30) M	2-Butanone	0.213	0.215	0.217	0.211	0.212	0.214	1.23
31)	2,2-Dichloropropane	0.376	0.373	0.377	0.382	0.380	0.378	0.92
32) M	1,1,1-Trichloroetha	0.440	0.443	0.449	0.455	0.455	0.448	1.53
33) M	Carbon Tetrachlorid	0.367	0.367	0.380	0.388	0.397	0.380	3.47
34) M	Benzene	1.344	1.286	1.300	1.269	1.266	1.293	2.45
35)	Methacrylonitrile	0.129	0.201	0.193	0.196	0.183	0.180	16.25
36) M	1,2-Dichloroethane	0.439	0.400	0.403	0.392	0.391	0.405	4.85
37) M	Trichloroethene	0.368	0.363	0.359	0.359	0.359	0.362	1.12
38)	Methylcyclohexane	0.540	0.496	0.502	0.516	0.518	0.514	3.26
39) M	1,2-Dichloropropane	0.335	0.332	0.331	0.329	0.329	0.331	0.70
40)	Dibromomethane	0.225	0.218	0.219	0.219	0.218	0.220	1.35
41) M	Bromodichloromethan	0.368	0.378	0.399	0.407	0.413	0.393	4.93
42) M	Vinyl Acetate	0.722	0.751	0.777	0.775	0.783	0.762	3.29
43)	Ethyl Acetate	0.429	0.407	0.409	0.403	0.396	0.409	3.02
44)	Isopropyl Acetate	0.618	0.606	0.641	0.647	0.662	0.635	3.54
45) T	1,4-Dioxane	0.007	0.007	0.007	0.007	0.007	0.007#	1.95
46)	Methyl methacrylate	0.327	0.291	0.317	0.320	0.322	0.315	4.47
47)	n-amyl Acetate	0.477	0.496	0.541	0.548	0.564	0.525	7.05
48) M	t-1,3-Dichloroprope	0.346	0.381	0.427	0.449	0.466	0.414	11.93
49) T	cis-1,3-Dichloropro	0.437	0.465	0.494	0.507	0.519	0.484	6.87
50) M	1,1,2-Trichloroetha	0.336	0.322	0.325	0.321	0.327	0.326	1.76
51)	Ethyl methacrylate	0.481	0.469	0.499	0.506	0.511	0.493	3.54
52)	1,3-Dichloropropane	0.533	0.526	0.531	0.525	0.529	0.529	0.63

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.268	0.290	0.330	0.347	0.360	0.319	12.13
54) M	1,2-Dibromoethane	0.336	0.330	0.345	0.343	0.347	0.340	2.06
55) M	2-Chloroethyl vinyl	0.150	0.159	0.175	0.186	0.195	0.173	10.66
56) M	Bromoform	0.177	0.200	0.239	0.262	0.277	0.231	18.20
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.474	0.455	0.450	0.445	0.448	0.454	2.61
59) M	2-Hexanone	0.330	0.325	0.323	0.320	0.325	0.325	1.15
60) S	4-Bromofluorobenzen	0.403	0.434	0.453	0.465	0.468	0.445	6.02
61) M	Tetrachloroethene	0.459	0.430	0.409	0.396	0.396	0.418	6.43
62) M	Toluene	1.751	1.631	1.593	1.554	1.569	1.620	4.88
63) S	Toluene-d8	1.403	1.394	1.347	1.339	1.322	1.361	2.60
64) M	Chlorobenzene	1.010	0.977	0.976	0.965	0.983	0.982	1.72
65)	1,1,1,2-Tetrachloro	0.344	0.349	0.355	0.358	0.366	0.354	2.34
66) M	Ethyl Benzene	1.771	1.731	1.701	1.700	1.722	1.725	1.67
67) M	m/p-Xylenes	0.667	0.661	0.652	0.653	0.668	0.660	1.18
68) M	o-Xylene	0.660	0.650	0.638	0.636	0.648	0.646	1.53
69) M	Styrene	0.956	1.024	1.071	1.082	1.118	1.050	5.96
70)	Isopropylbenzene	1.739	1.699	1.674	1.656	1.676	1.689	1.90
71) M	1,1,2,2-Tetrachloro	0.513	0.516	0.508	0.503	0.505	0.509	1.07
72)	1,2,3-Trichloroprop	0.478	0.438	0.435	0.407	0.445	0.441	5.77
73)	Bromobenzene	0.428	0.440	0.448	0.458	0.467	0.448	3.39
74)	n-propylbenzene	1.642	1.731	1.809	1.838	1.891	1.782	5.47
75)	2-Chlorotoluene	1.112	1.089	1.102	1.105	1.119	1.105	1.03
76)	1,3,5-Trimethylbenz	1.373	1.384	1.376	1.389	1.424	1.389	1.47
77)	t-1,4-Dichloro-2-bu	0.089	0.108	0.130	0.146	0.156	0.126	21.77
78)	4-Chlorotoluene	0.904	0.979	1.057	1.095	1.126	1.032	8.74
79)	tert-butylbenzene	1.321	1.221	1.207	1.190	1.215	1.231	4.21
80)	1,2,4-Trimethylbenz	1.270	1.328	1.366	1.378	1.415	1.351	4.06
81)	sec-Butylbenzene	1.502	1.535	1.565	1.574	1.608	1.557	2.58
82)	p-Isopropyltoluene	1.288	1.367	1.425	1.456	1.502	1.408	5.88
83) M	1,3-Dichlorobenzene	0.565	0.660	0.723	0.757	0.788	0.699	12.67
84) M	1,4-Dichlorobenzene	0.521	0.602	0.690	0.740	0.775	0.665	15.59
85)	n-Butylbenzene	0.835	0.935	1.083	1.164	1.235	1.051	15.65
86) T	Hexachloroethane	0.184	0.203	0.223	0.238	0.249	0.219	12.00
87) M	1,2-Dichlorobenzene	0.630	0.676	0.725	0.751	0.768	0.710	7.98
88)	1,2-Dibromo-3-Chlor	0.065	0.071	0.083	0.088	0.093	0.080	14.52
89)	1,2,4-Trichlorobenz	0.180	0.271	0.362	0.436	0.483	0.346	35.53
90)	Hexachlorobutadiene	0.261	0.251	0.258	0.259	0.267	0.259	2.19
91) M	Naphthalene	0.535	0.746	0.984	1.162	1.288	0.943	32.42
92)	1,2,3-Trichlorobenz	0.230	0.312	0.386	0.446	0.484	0.372	27.58

(#) = Out of Range