

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N042619W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Fri Apr 26 05:19:18 2019
 Response Via : Initial Calibration

Calibration Files

5 =VN055250.D 20 =VN055251.D 50 =VN055252.D
 100 =VN055253.D 150 =VN055254.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.878	1.619	1.597	1.539	1.548	1.636	8.50
3) M	Chloromethane	2.635	2.230	2.249	2.133	2.194	2.288	8.69
4) M	Vinyl Chloride	2.046	1.869	1.842	1.765	1.803	1.865	5.82
5) M	Bromomethane	1.245	1.047	0.985	0.936	0.982	1.039	11.72
6) M	Chloroethane	1.190	1.028	0.995	0.971	1.009	1.039	8.40
7) M	Trichlorofluorometh	3.063	2.715	2.712	2.590	2.627	2.742	6.84
8) T	Diethyl Ether	1.172	1.065	1.107	1.102	1.118	1.113	3.47
9)	1,1,2-Trichlorotrif	1.899	1.740	1.731	1.671	1.684	1.745	5.23
10) M	1,1-Dichloroethene	1.751	1.607	1.614	1.560	1.590	1.625	4.55
11)	Methyl Iodide	2.566	2.468	2.616	2.519	2.605	2.555	2.42
12)	Methyl Acetate	2.412	2.378	2.388	2.283	2.329	2.358	2.19
13) M	Acrolein	0.135	0.097	0.098	0.096	0.100	0.105	15.87
14) M	Acrylonitrile	0.813	0.857	0.852	0.837	0.829	0.837	2.11
15) M	Acetone	0.211	0.213	0.199	0.193	0.192	0.202	4.87
16) M	Carbon Disulfide	4.725	4.181	4.286	4.347	4.538	4.415	4.90
17)	Allyl chloride	3.548	3.299	3.554	3.505	3.585	3.498	3.28
18) M	Methylene Chloride	2.276	2.034	1.978	1.885	1.912	2.017	7.74
19) M	trans-1,2-Dichloroe	1.962	1.767	1.739	1.675	1.705	1.770	6.39
20) T	Diisopropyl ether	7.157	7.239	7.228	6.946	7.092	7.132	1.68
21) M	1,1-Dichloroethane	3.934	3.727	3.682	3.568	3.621	3.706	3.80
22) M	cis-1,2-Dichloroeth	2.235	1.974	2.069	1.974	1.999	2.050	5.39
23) M	tert-Butyl Alcohol	0.185	0.161	0.163	0.173	0.173	0.171	5.63
24) M	Methyl tert-Butyl E	5.453	5.193	5.332	5.193	5.298	5.294	2.05
25) M	Chloroform	3.632	3.494	3.471	3.383	3.434	3.483	2.67
26)	Cyclohexane	3.431	3.104	3.201	3.134	3.224	3.219	3.98
27) s	1,2-Dichloroethane-	2.348	2.371	2.391	2.357	2.372	2.368	0.69

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.507	0.474	0.474	0.461	0.461	0.475	3.98
30) M	2-Butanone	0.195	0.201	0.194	0.191	0.184	0.193	3.18
31)	2,2-Dichloropropane	0.482	0.457	0.446	0.432	0.435	0.450	4.54
32) M	1,1,1-Trichloroetha	0.574	0.531	0.522	0.507	0.509	0.529	5.12
33) M	Carbon Tetrachlorid	0.478	0.431	0.434	0.428	0.432	0.441	4.74
34) M	Benzene	1.552	1.434	1.401	1.367	1.363	1.423	5.45
35)	Methacrylonitrile	0.197	0.254	0.225	0.211	0.225	0.222	9.59
36) M	1,2-Dichloroethane	0.572	0.517	0.501	0.477	0.472	0.508	7.91
37) M	Trichloroethene	0.407	0.360	0.354	0.338	0.338	0.359	7.87
38)	Methylcyclohexane	0.552	0.500	0.503	0.493	0.496	0.509	4.79
39) M	1,2-Dichloropropane	0.439	0.416	0.406	0.388	0.389	0.407	5.21
40)	Dibromomethane	0.267	0.244	0.231	0.222	0.216	0.236	8.63
41) M	Bromodichloromethan	0.520	0.473	0.475	0.467	0.466	0.480	4.69
42) M	Vinyl Acetate	0.948	0.910	0.927	0.916	0.913	0.923	1.68
43)	Ethyl Acetate	0.381	0.436	0.389	0.397	0.394	0.399	5.30
44)	Isopropyl Acetate	0.782	0.756	0.717	0.712	0.706	0.735	4.48
45) T	1,4-Dioxane	0.004	0.004	0.004	0.004	0.004	0.004#	4.55
46)	Methyl methacrylate	0.320	0.352	0.348	0.353	0.358	0.346	4.30
47)	n-amyl Acetate	0.440	0.491	0.538	0.571	0.574	0.523	10.95
48) M	t-1,3-Dichloroprope	0.443	0.449	0.480	0.488	0.503	0.472	5.45
49) T	cis-1,3-Dichloropro	0.544	0.534	0.550	0.550	0.562	0.548	1.91
50) M	1,1,2-Trichloroetha	0.346	0.330	0.321	0.307	0.305	0.322	5.24
51)	Ethyl methacrylate	0.450	0.413	0.434	0.443	0.448	0.438	3.44
52)	1,3-Dichloropropane	0.618	0.572	0.563	0.549	0.547	0.570	5.07

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.332	0.325	0.331	0.338	0.339	0.333	1.76
54) M	1,2-Dibromoethane	0.322	0.307	0.314	0.306	0.313	0.312	2.08
55) M	2-Chloroethyl vinyl	0.104	0.122	0.135	0.148	0.150	0.132	14.63
56) M	Bromoform	0.198	0.213	0.218	0.227	0.236	0.218	6.55
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.484	0.475	0.471	0.459	0.452	0.468	2.75
59) M	2-Hexanone	0.311	0.304	0.298	0.295	0.292	0.300	2.55
60) S	4-Bromofluorobenzene	0.420	0.447	0.470	0.477	0.489	0.460	5.92
61) M	Tetrachloroethene	0.447	0.414	0.381	0.356	0.349	0.389	10.49
62) M	Toluene	1.905	1.717	1.680	1.583	1.602	1.697	7.58
63) S	Toluene-d8	1.487	1.441	1.431	1.379	1.388	1.425	3.06
64) M	Chlorobenzene	1.050	1.007	1.012	0.974	0.985	1.006	2.91
65)	1,1,1,2-Tetrachloro	0.404	0.371	0.372	0.359	0.368	0.375	4.56
66) M	Ethyl Benzene	1.938	1.785	1.794	1.744	1.760	1.804	4.31
67) M	m/p-Xylenes	0.674	0.670	0.670	0.641	0.648	0.661	2.27
68) M	o-Xylene	0.669	0.682	0.667	0.638	0.641	0.659	2.89
69) M	Styrene	0.992	0.995	1.051	1.025	1.043	1.021	2.63
70)	Isopropylbenzene	1.758	1.777	1.759	1.685	1.700	1.736	2.34
71) M	1,1,2,2-Tetrachloro	0.520	0.480	0.478	0.461	0.452	0.478	5.47
72)	1,2,3-Trichloroprop	0.509	0.405	0.394	0.386	0.380	0.415	12.88
73)	Bromobenzene	0.410	0.409	0.420	0.409	0.415	0.413	1.15
74)	n-propylbenzene	1.859	1.944	1.987	1.933	1.962	1.937	2.50
75)	2-Chlorotoluene	1.184	1.203	1.199	1.167	1.187	1.188	1.19
76)	1,3,5-Trimethylbenz	1.433	1.433	1.448	1.396	1.411	1.424	1.43
77)	t-1,4-Dichloro-2-bu	0.101	0.097	0.111	0.119	0.124	0.110	10.50
78)	4-Chlorotoluene	1.002	1.126	1.166	1.164	1.190	1.129	6.66
79)	tert-butylbenzene	1.243	1.249	1.243	1.194	1.206	1.227	2.06
80)	1,2,4-Trimethylbenz	1.257	1.400	1.403	1.400	1.406	1.373	4.74
81)	sec-Butylbenzene	1.602	1.638	1.652	1.603	1.614	1.622	1.39
82)	p-Isopropyltoluene	1.265	1.337	1.382	1.363	1.380	1.345	3.58
83) M	1,3-Dichlorobenzene	0.574	0.644	0.703	0.706	0.719	0.669	9.03
84) M	1,4-Dichlorobenzene	0.485	0.602	0.667	0.696	0.708	0.632	14.52
85)	n-Butylbenzene	0.747	0.933	1.093	1.166	1.189	1.026	18.04
86) T	Hexachloroethane	0.214	0.219	0.231	0.236	0.248	0.229	5.97
87) M	1,2-Dichlorobenzene	0.600	0.658	0.699	0.695	0.696	0.670	6.32
88)	1,2-Dibromo-3-Chlor	0.067	0.065	0.070	0.073	0.075	0.070	6.12
89)	1,2,4-Trichlorobenz	0.145	0.213	0.278	0.332	0.358	0.265	32.91
90)	Hexachlorobutadiene	0.225	0.222	0.231	0.223	0.221	0.224	1.85
91) M	Naphthalene	0.350	0.462	0.634	0.764	0.851	0.612	33.87
92)	1,2,3-Trichlorobenz	0.167	0.235	0.297	0.327	0.356	0.276	27.46

(#) = Out of Range