

Method Path : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\
 Method File : 624X071919W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Fri Jul 19 03:27:28 2019
 Response Via : Initial Calibration

Calibration Files

5 =VX010976.D 20 =VX010977.D 50 =VX010978.D
 100 =VX010979.D 150 =VX010980.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.464	2.073	2.090	2.134	2.156	1.983	14.73
3) M	Chloromethane	1.575	1.823	1.774	1.786	1.764	1.744	5.58
4) M	Vinyl Chloride	1.594	1.865	1.837	1.889	1.910	1.819	7.08
5) M	Bromomethane	0.973	1.160	0.952	0.971	0.950	1.001	8.94
6) M	Chloroethane	1.047	1.103	1.086	1.095	1.050	1.076	2.43
7) M	Trichlorofluorometh	2.769	3.058	3.037	3.119	3.120	3.021	4.81
8) T	Diethyl Ether	0.953	1.005	0.985	1.006	1.012	0.992	2.42
9)	1,1,2-Trichlorotrif	1.553	1.679	1.675	1.716	1.724	1.669	4.10
10) M	1,1-Dichloroethene	1.602	1.696	1.667	1.693	1.731	1.678	2.87
11)	Methyl Iodide	1.598	2.060	2.367	2.588	2.652	2.253	19.23
12)	Methyl Acetate	2.050	2.405	2.393	2.464	2.470	2.356	7.40
13) M	Acrolein	0.274	0.290	0.270	0.290	0.288	0.283	3.42
14) M	Acrylonitrile	0.836	0.937	0.931	0.953	0.953	0.922	5.32
15) M	Acetone	0.242	0.265	0.257	0.260	0.261	0.257	3.44
16) M	Carbon Disulfide	3.634	4.171	4.389	4.644	4.718	4.311	10.12
17)	Allyl chloride	2.191	2.357	2.447	2.564	2.585	2.429	6.66
18) M	Methylene Chloride	1.833	1.871	1.866	1.885	1.886	1.868	1.15
19) M	trans-1,2-Dichloroe	1.687	1.790	1.754	1.822	1.810	1.772	3.07
20) T	Diisopropyl ether	4.819	5.064	5.105	5.289	5.362	5.128	4.15
21) M	1,1-Dichloroethane	2.768	2.910	2.918	3.065	3.093	2.951	4.47
22) M	cis-1,2-Dichloroeth	1.950	2.017	2.028	2.090	2.107	2.038	3.08
23) M	tert-Butyl Alcohol	0.586	0.473	0.440	0.448	0.461	0.482	12.37
24) M	Methyl tert-Butyl E	5.029	5.318	5.331	5.594	5.658	5.386	4.66
25) M	Chloroform	3.100	3.164	3.186	3.328	3.381	3.232	3.65
26)	Cyclohexane	2.627	2.692	2.668	2.727	2.787	2.700	2.24
27) s	1,2-Dichloroethane-	1.980	1.999	1.990	2.059	2.141	2.034	3.31

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.402	0.417	0.418	0.437	0.435	0.422	3.46
30) M	2-Butanone	0.210	0.226	0.228	0.238	0.236	0.228	4.75
31)	2,2-Dichloropropane	0.333	0.350	0.372	0.394	0.393	0.368	7.23
32) M	1,1,1-Trichloroetha	0.448	0.486	0.514	0.547	0.549	0.509	8.42
33) M	Carbon Tetrachlorid	0.368	0.410	0.454	0.488	0.491	0.442	11.90
34) M	Benzene	1.226	1.254	1.268	1.299	1.280	1.266	2.18
35)	Methacrylonitrile	0.214	0.226	0.241	0.252	0.253	0.237	7.18
36) M	1,2-Dichloroethane	0.437	0.435	0.451	0.472	0.468	0.453	3.82
37) M	Trichloroethene	0.361	0.359	0.372	0.382	0.378	0.371	2.72
38)	Methylcyclohexane	0.506	0.524	0.541	0.547	0.545	0.532	3.26
39) M	1,2-Dichloropropane	0.302	0.310	0.319	0.327	0.323	0.316	3.23
40)	Dibromomethane	0.220	0.227	0.231	0.243	0.243	0.233	4.33
41) M	Bromodichloromethan	0.359	0.392	0.429	0.466	0.471	0.423	11.38
42) M	Vinyl Acetate	0.689	0.725	0.755	0.796	0.787	0.750	5.91
43)	Ethyl Acetate	0.416	0.422	0.441	0.455	0.451	0.437	4.05
44)	Isopropyl Acetate	0.637	0.687	0.718	0.758	0.761	0.712	7.29
45) T	1,4-Dioxane	0.009	0.010	0.009	0.009	0.009	0.009#	1.81
46)	Methyl methacrylate	0.291	0.331	0.350	0.377	0.379	0.346	10.50
47)	n-amyl Acetate	0.497	0.605	0.673	0.698	0.719	0.639	14.10
48) M	t-1,3-Dichloroprope	0.335	0.404	0.462	0.511	0.519	0.446	17.30
49) T	cis-1,3-Dichloropro	0.396	0.458	0.499	0.543	0.540	0.487	12.65
50) M	1,1,2-Trichloroetha	0.318	0.333	0.337	0.360	0.355	0.341	5.04
51)	Ethyl methacrylate	0.460	0.496	0.531	0.570	0.576	0.527	9.38
52)	1,3-Dichloropropane	0.517	0.537	0.549	0.571	0.562	0.547	3.85

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.276	0.338	0.379	0.420	0.426	0.368	16.95
54) M	1,2-Dibromoethane	0.328	0.356	0.373	0.398	0.395	0.370	7.79
55) M	2-Chloroethyl vinyl	0.219	0.217	0.223	0.230	0.225	0.223	2.13
56) M	Bromoform	0.178	0.241	0.287	0.324	0.340	0.274	24.11
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.487	0.506	0.507	0.521	0.512	0.507	2.49
59) M	2-Hexanone	0.365	0.389	0.396	0.396	0.393	0.388	3.38
60) S	4-Bromofluorobenzene	0.470	0.476	0.497	0.507	0.519	0.494	4.18
61) M	Tetrachloroethene	0.414	0.405	0.396	0.389	0.376	0.396	3.67
62) M	Toluene	1.578	1.597	1.611	1.615	1.568	1.594	1.29
63) S	Toluene-d8	1.337	1.337	1.318	1.312	1.289	1.319	1.51
64) M	Chlorobenzene	0.999	1.010	1.004	1.047	1.045	1.021	2.24
65)	1,1,1,2-Tetrachloro	0.306	0.360	0.379	0.405	0.406	0.371	11.15
66) M	Ethyl Benzene	1.745	1.779	1.796	1.843	1.808	1.794	2.00
67) M	m/p-Xylenes	0.654	0.693	0.686	0.707	0.692	0.686	2.84
68) M	o-Xylene	0.660	0.669	0.667	0.687	0.679	0.673	1.59
69) M	Styrene	1.000	1.108	1.152	1.194	1.199	1.131	7.22
70)	Isopropylbenzene	1.655	1.760	1.818	1.871	1.850	1.791	4.84
71) M	1,1,2,2-Tetrachloro	0.543	0.570	0.594	0.590	0.591	0.578	3.73
72)	1,2,3-Trichloroprop	0.459	0.470	0.499	0.497	0.485	0.482	3.56
73)	Bromobenzene	0.464	0.476	0.480	0.499	0.497	0.483	3.02
74)	n-propylbenzene	1.832	1.971	2.049	2.134	2.093	2.016	5.92
75)	2-Chlorotoluene	1.148	1.171	1.196	1.242	1.245	1.201	3.58
76)	1,3,5-Trimethylbenz	1.382	1.496	1.546	1.583	1.574	1.516	5.42
77)	t-1,4-Dichloro-2-bu	0.099	0.135	0.173	0.191	0.197	0.159	26.14
78)	4-Chlorotoluene	1.275	1.331	1.397	1.449	1.442	1.379	5.40
79)	tert-butylbenzene	1.337	1.430	1.493	1.547	1.546	1.470	6.04
80)	1,2,4-Trimethylbenz	1.416	1.501	1.549	1.582	1.584	1.527	4.60
81)	sec-Butylbenzene	1.549	1.704	1.770	1.825	1.818	1.733	6.56
82)	p-Isopropyltoluene	1.404	1.575	1.644	1.705	1.714	1.608	7.90
83) M	1,3-Dichlorobenzene	0.780	0.832	0.872	0.886	0.895	0.853	5.59
84) M	1,4-Dichlorobenzene	0.755	0.834	0.864	0.895	0.892	0.848	6.78
85)	n-Butylbenzene	1.121	1.320	1.422	1.495	1.489	1.370	11.36
86) T	Hexachloroethane	0.175	0.227	0.266	0.296	0.305	0.254	21.17
87) M	1,2-Dichlorobenzene	0.777	0.849	0.851	0.850	0.848	0.835	3.87
88)	1,2-Dibromo-3-Chlor	0.106	0.121	0.130	0.137	0.142	0.127	11.37
89)	1,2,4-Trichlorobenz	0.495	0.557	0.588	0.616	0.624	0.576	9.14
90)	Hexachlorobutadiene	0.254	0.275	0.286	0.287	0.291	0.279	5.32
91) M	Naphthalene	1.436	1.768	1.806	1.880	1.899	1.758	10.67
92)	1,2,3-Trichlorobenz	0.507	0.570	0.587	0.610	0.613	0.577	7.47

(#) = Out of Range