

Method Path : Z:\VOASRV\HPCHEM1\MSV0A X\METHOD\
 Method File : 624X071218W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Thu Jul 12 13:28:20 2018
 Response Via : Initial Calibration

Calibration Files

5 =VX003343.D 20 =VX003344.D 50 =VX003345.D
 100 =VX003346.D 150 =VX003347.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.838	2.477	2.362	2.296	2.413	2.277	11.17
3) M	Chloromethane	2.202	2.432	2.281	2.163	2.231	2.262	4.61
4) M	Vinyl Chloride	2.326	2.621	2.437	2.461	2.485	2.466	4.30
5) M	Bromomethane	1.114	1.105	0.977	0.923	0.994	1.022	8.19
6) M	Chloroethane	1.515	1.537	1.427	1.384	1.486	1.470	4.30
7) M	Trichlorofluorometh	3.221	3.492	3.262	3.117	3.335	3.285	4.25
8) T	Diethyl Ether	1.315	1.373	1.354	1.285	1.391	1.344	3.20
9)	1,1,2-Trichlorotrif	2.086	2.051	1.947	1.898	2.074	2.011	4.17
10) M	1,1-Dichloroethene	1.876	1.913	1.816	1.783	1.943	1.866	3.56
11)	Methyl Iodide	0.929	1.577	2.152	2.413	2.803	1.975	37.22
12)	Methyl Acetate	2.511	3.304	3.157	2.967	3.209	3.030	10.39
13) M	Acrolein	0.286	0.233	0.216	0.217	0.225	0.235	12.38
14) M	Acrylonitrile	1.124	1.179	1.148	1.095	1.155	1.140	2.82
15) M	Acetone	0.302	0.309	0.290	0.282	0.312	0.299	4.18
16) M	Carbon Disulfide	5.498	5.214	5.150	5.120	5.670	5.330	4.54
17)	Allyl chloride	3.516	3.623	3.524	3.427	3.658	3.550	2.59
18) M	Methylene Chloride	2.452	2.193	2.110	2.003	2.191	2.190	7.58
19) M	trans-1,2-Dichloroe	2.124	2.010	1.950	1.942	2.036	2.012	3.69
20) T	Diisopropyl ether	6.635	6.807	5.981	6.312	6.333	6.414	4.98
21) M	1,1-Dichloroethane	3.745	3.933	3.715	3.579	3.835	3.761	3.53
22) M	cis-1,2-Dichloroeth	2.252	2.026	2.067	2.178	2.175	2.140	4.27
23) M	tert-Butyl Alcohol	0.455	0.502	0.478	0.451	0.480	0.473	4.40
24) M	Methyl tert-Butyl E	6.170	6.307	6.127	6.066	6.492	6.232	2.73
25) M	Chloroform	3.399	3.401	3.268	3.297	3.572	3.387	3.52
26)	Cyclohexane	2.779	2.903	2.933	2.899	3.167	2.936	4.83
27) s	1,2-Dichloroethane-	1.873	2.154	2.049	2.048	2.120	2.049	5.30

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.512	0.467	0.452	0.457	0.478	0.473	5.07
30) M	2-Butanone	0.297	0.264	0.250	0.261	0.248	0.264	7.43
31)	2,2-Dichloropropane	0.605	0.475	0.483	0.514	0.478	0.511	10.70
32) M	1,1,1-Trichloroetha	0.578	0.525	0.513	0.529	0.532	0.536	4.66
33) M	Carbon Tetrachlorid	0.489	0.464	0.465	0.465	0.466	0.470	2.28
34) M	Benzene	1.467	1.426	1.357	1.371	1.344	1.393	3.72
35)	Methacrylonitrile	0.295	0.280	0.272	0.278	0.274	0.280	3.25
36) M	1,2-Dichloroethane	0.527	0.501	0.470	0.465	0.458	0.484	5.99
37) M	Trichloroethene	0.406	0.393	0.373	0.377	0.377	0.385	3.67
38)	Methylcyclohexane	0.543	0.529	0.521	0.546	0.535	0.535	1.87
39) M	1,2-Dichloropropane	0.376	0.368	0.346	0.360	0.349	0.360	3.44
40)	Dibromomethane	0.247	0.243	0.229	0.234	0.229	0.236	3.53
41) M	Bromodichloromethan	0.433	0.447	0.431	0.450	0.448	0.442	2.05
42) M	Vinyl Acetate	1.176	1.062	0.923	1.002	0.914	1.015	10.67
43)	Ethyl Acetate	0.562	0.491	0.478	0.499	0.480	0.502	6.88
44)	Isopropyl Acetate	0.795	0.782	0.748	0.756	0.767	0.769	2.47
45) T	1,4-Dioxane	0.008	0.009	0.008	0.008	0.008	0.008#	3.66
46)	Methyl methacrylate	0.373	0.406	0.397	0.409	0.404	0.398	3.66
47)	n-amyl Acetate	0.583	0.655	0.658	0.705	0.712	0.663	7.76
48) M	t-1,3-Dichloroprope	0.504	0.539	0.535	0.551	0.558	0.538	3.85
49) T	cis-1,3-Dichloropro	0.437	0.482	0.481	0.510	0.525	0.487	6.93
50) M	1,1,2-Trichloroetha	0.364	0.366	0.346	0.361	0.346	0.356	2.77
51)	Ethyl methacrylate	0.485	0.511	0.514	0.546	0.542	0.520	4.85
52)	1,3-Dichloropropane	0.589	0.609	0.570	0.587	0.572	0.586	2.71

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.317	0.354	0.350	0.382	0.378	0.356	7.32
54) M	1,2-Dibromoethane	0.368	0.380	0.358	0.377	0.364	0.370	2.46
55) M	2-Chloroethyl vinyl	0.169	0.264	0.261	0.268	0.264	0.245	17.47
56) M	Bromoform	0.232	0.261	0.270	0.292	0.307	0.272	10.54
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.539	0.555	0.528	0.513	0.536	0.534	2.87
59) M	2-Hexanone	0.401	0.429	0.406	0.402	0.409	0.409	2.74
60) S	4-Bromofluorobenzene	0.486	0.475	0.471	0.479	0.499	0.482	2.28
61) M	Tetrachloroethene	0.516	0.472	0.438	0.439	0.431	0.459	7.75
62) M	Toluene	1.725	1.668	1.602	1.552	1.636	1.637	4.01
63) S	Toluene-d8	1.351	1.356	1.293	1.289	1.341	1.326	2.44
64) M	Chlorobenzene	1.146	1.071	1.061	1.062	1.080	1.084	3.27
65)	1,1,1,2-Tetrachloro	0.374	0.379	0.386	0.385	0.398	0.384	2.32
66) M	Ethyl Benzene	1.788	1.782	1.816	1.814	1.844	1.809	1.37
67) M	m/p-Xylenes	0.698	0.695	0.706	0.696	0.723	0.704	1.67
68) M	o-Xylene	0.660	0.669	0.686	0.669	0.702	0.677	2.48
69) M	Styrene	1.123	1.095	1.133	1.105	1.172	1.126	2.62
70)	Isopropylbenzene	1.786	1.801	1.777	1.754	1.859	1.795	2.20
71) M	1,1,2,2-Tetrachloro	0.566	0.578	0.548	0.540	0.583	0.563	3.33
72)	1,2,3-Trichloroprop	0.640	0.663	0.645	0.646	0.699	0.659	3.64
73)	Bromobenzene	0.538	0.494	0.476	0.473	0.515	0.499	5.53
74)	n-propylbenzene	2.130	2.088	2.041	2.035	2.163	2.091	2.66
75)	2-Chlorotoluene	1.290	1.265	1.209	1.201	1.289	1.251	3.42
76)	1,3,5-Trimethylbenz	1.514	1.500	1.483	1.486	1.613	1.519	3.56
77)	t-1,4-Dichloro-2-bu	0.124	0.149	0.160	0.168	0.186	0.157	14.69
78)	4-Chlorotoluene	1.488	1.449	1.411	1.427	1.531	1.461	3.33
79)	tert-butylbenzene	1.575	1.591	1.565	1.560	1.755	1.609	5.13
80)	1,2,4-Trimethylbenz	1.503	1.547	1.511	1.484	1.675	1.544	4.98
81)	sec-Butylbenzene	1.809	1.765	1.740	1.735	1.939	1.797	4.70
82)	p-Isopropyltoluene	1.575	1.591	1.565	1.560	1.755	1.609	5.13
83) M	1,3-Dichlorobenzene	0.997	0.897	0.873	0.873	0.984	0.925	6.60
84) M	1,4-Dichlorobenzene	0.995	0.930	0.869	0.882	0.991	0.933	6.30
85)	n-Butylbenzene	1.391	1.372	1.360	1.388	1.554	1.413	5.65
86) T	Hexachloroethane	0.212	0.217	0.228	0.242	0.285	0.237	12.34
87) M	1,2-Dichlorobenzene	0.958	0.941	0.874	0.869	0.980	0.924	5.45
88)	1,2-Dibromo-3-Chlor	0.099	0.122	0.116	0.118	0.130	0.117	9.54
89)	1,2,4-Trichlorobenz	0.685	0.681	0.638	0.627	0.688	0.664	4.34
90)	Hexachlorobutadiene	0.379	0.329	0.299	0.286	0.333	0.325	11.03
91) M	Naphthalene	1.739	2.035	1.945	1.826	2.025	1.914	6.73
92)	1,2,3-Trichlorobenz	0.720	0.708	0.649	0.618	0.669	0.673	6.20

(#) = Out of Range