

Method Path : Z:\VOASRV\HPCHEM1\MSV0A X\METHOD\
 Method File : 624X062520W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Fri Jun 26 09:03:25 2020
 Response Via : Initial Calibration

Calibration Files

5 =VX016948.D 20 =VX016949.D 50 =VX016950.D
 100 =VX016951.D 150 =VX016952.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.601	1.259	1.370	1.444	1.620	1.459	10.53
3) M	Chloromethane	2.142	1.955	1.919	1.971	1.905	1.978	4.82
4) M	Vinyl Chloride	2.225	1.952	1.944	2.015	1.951	2.017	5.93
5) M	Bromomethane	1.834	1.508	1.445	1.259	1.216	1.453	16.92
6) M	Chloroethane	1.414	1.257	1.261	1.296	1.278	1.301	5.01
7) M	Trichlorofluorometh	3.593	3.124	3.200	3.281	3.206	3.281	5.58
8) T	Diethyl Ether	1.306	1.146	1.151	1.199	1.168	1.194	5.53
9)	1,1,2-Trichlorotrif	1.994	1.658	1.714	1.709	1.632	1.741	8.34
10) M	1,1-Dichloroethene	1.872	1.657	1.669	1.723	1.666	1.717	5.24
11)	Methyl Iodide	2.134	1.917	2.258	2.592	2.565	2.293	12.56
12)	Methyl Acetate	2.333	2.084	2.065	2.205	2.145	2.166	4.98
13) M	Acrolein	0.354	0.319	0.321	0.355	0.359	0.342	5.81
14) M	Acrylonitrile	1.061	1.008	0.987	1.042	1.031	1.026	2.81
15) M	Acetone	0.287	0.257	0.255	0.267	0.262	0.266	4.75
16) M	Carbon Disulfide	6.071	5.168	5.223	5.352	5.180	5.399	7.09
17)	Allyl chloride	3.227	3.181	3.157	3.305	3.205	3.215	1.77
18) M	Methylene Chloride	2.418	1.983	1.987	2.011	1.944	2.069	9.51
19) M	trans-1,2-Dichloroe	2.122	1.858	1.892	1.955	1.902	1.946	5.37
20) T	Diisopropyl ether	6.549	6.176	6.256	6.665	6.480	6.425	3.18
21) M	1,1-Dichloroethane	3.760	3.439	3.433	3.613	3.469	3.543	4.01
22) M	cis-1,2-Dichloroeth	2.253	2.088	2.115	2.215	2.162	2.166	3.16
23) M	tert-Butyl Alcohol	0.479	0.443	0.433	0.463	0.455	0.455	3.89
24) M	Methyl tert-Butyl E	6.211	5.919	5.989	6.351	6.191	6.132	2.86
25) M	Chloroform	3.832	3.468	3.488	3.634	3.538	3.592	4.14
26)	Cyclohexane	3.254	2.993	3.033	3.161	3.012	3.091	3.64
27) s	1,2-Dichloroethane-	2.384	2.348	2.290	2.305	2.348	2.335	1.62

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.498	0.468	0.494	0.497	0.486	0.489	2.53
30) M	2-Butanone	0.245	0.251	0.252	0.264	0.261	0.255	3.04
31)	2,2-Dichloropropane	0.587	0.548	0.555	0.567	0.545	0.560	3.03
32) M	1,1,1-Trichloroetha	0.611	0.570	0.585	0.601	0.590	0.591	2.61
33) M	Carbon Tetrachlorid	0.528	0.506	0.525	0.538	0.524	0.524	2.23
34) M	Benzene	1.450	1.386	1.416	1.450	1.413	1.423	1.90
35)	Methacrylonitrile	0.272	0.275	0.279	0.292	0.287	0.281	2.99
36) M	1,2-Dichloroethane	0.574	0.528	0.539	0.551	0.534	0.545	3.38
37) M	Trichloroethene	0.403	0.381	0.381	0.394	0.383	0.388	2.61
38)	Methylcyclohexane	0.555	0.522	0.575	0.576	0.555	0.557	3.94
39) M	1,2-Dichloropropane	0.383	0.355	0.372	0.378	0.366	0.371	2.92
40)	Dibromomethane	0.260	0.248	0.255	0.259	0.256	0.256	1.93
41) M	Bromodichloromethan	0.517	0.516	0.531	0.548	0.534	0.529	2.51
42) M	Vinyl Acetate	0.963	0.996	1.033	1.084	1.057	1.027	4.70
43)	Ethyl Acetate	0.538	0.516	0.513	0.538	0.534	0.528	2.30
44)	Isopropyl Acetate	0.846	0.834	0.864	0.909	0.896	0.870	3.70
45) T	1,4-Dioxane	0.008	0.009	0.009	0.009	0.009	0.009#	4.83
46)	Methyl methacrylate	0.344	0.388	0.410	0.439	0.431	0.402	9.47
47)	n-amyl Acetate	0.674	0.707	0.780	0.852	0.830	0.769	10.00
48) M	t-1,3-Dichloroprope	0.557	0.543	0.592	0.624	0.608	0.585	5.83
49) T	cis-1,3-Dichloropro	0.596	0.594	0.619	0.639	0.625	0.615	3.15
50) M	1,1,2-Trichloroetha	0.363	0.340	0.358	0.365	0.358	0.357	2.73
51)	Ethyl methacrylate	0.473	0.518	0.555	0.591	0.599	0.547	9.62
52)	1,3-Dichloropropane	0.596	0.610	0.616	0.628	0.611	0.612	1.91

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.392	0.386	0.415	0.430	0.426	0.410	4.82
54) M	1,2-Dibromoethane	0.380	0.360	0.376	0.390	0.386	0.378	3.09
55) M	2-Chloroethyl vinyl	0.262	0.277	0.298	0.304	0.299	0.288	6.20
56) M	Bromoform	0.261	0.266	0.294	0.316	0.318	0.291	9.25
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.536	0.540	0.546	0.574	0.567	0.553	3.10
59) M	2-Hexanone	0.386	0.402	0.407	0.442	0.426	0.412	5.28
60) S	4-Bromofluorobenzene	0.483	0.488	0.501	0.515	0.515	0.500	2.98
61) M	Tetrachloroethene	0.428	0.364	0.379	0.381	0.361	0.383	7.00
62) M	Toluene	1.705	1.591	1.639	1.670	1.599	1.641	2.92
63) S	Toluene-d8	1.346	1.327	1.324	1.312	1.304	1.322	1.20
64) M	Chlorobenzene	1.059	0.974	1.032	1.047	1.027	1.028	3.17
65)	1,1,1,2-Tetrachloro	0.380	0.373	0.387	0.405	0.391	0.387	3.07
66) M	Ethyl Benzene	1.783	1.736	1.860	1.892	1.827	1.820	3.40
67) M	m/p-Xylenes	0.672	0.649	0.700	0.713	0.698	0.686	3.73
68) M	o-Xylene	0.637	0.629	0.664	0.689	0.678	0.659	3.92
69) M	Styrene	1.027	1.044	1.147	1.219	1.207	1.129	7.94
70)	Isopropylbenzene	1.769	1.673	1.803	1.856	1.841	1.788	4.07
71) M	1,1,2,2-Tetrachloro	0.553	0.517	0.548	0.569	0.559	0.549	3.59
72)	1,2,3-Trichloroprop	0.535	0.515	0.533	0.541	0.513	0.527	2.41
73)	Bromobenzene	0.442	0.432	0.447	0.477	0.459	0.451	3.79
74)	n-propylbenzene	2.060	1.981	2.156	2.251	2.169	2.123	4.93
75)	2-Chlorotoluene	1.238	1.143	1.247	1.307	1.256	1.238	4.79
76)	1,3,5-Trimethylbenz	1.426	1.400	1.525	1.604	1.551	1.501	5.74
77)	t-1,4-Dichloro-2-bu	0.209	0.196	0.211	0.230	0.224	0.214	6.25
78)	4-Chlorotoluene	1.433	1.359	1.486	1.549	1.503	1.466	4.95
79)	tert-butylbenzene	1.345	1.345	1.472	1.533	1.495	1.438	6.10
80)	1,2,4-Trimethylbenz	1.440	1.418	1.539	1.598	1.540	1.507	5.01
81)	sec-Butylbenzene	1.666	1.618	1.790	1.853	1.778	1.741	5.54
82)	p-Isopropyltoluene	1.496	1.464	1.627	1.672	1.602	1.572	5.65
83) M	1,3-Dichlorobenzene	0.831	0.761	0.824	0.827	0.801	0.809	3.61
84) M	1,4-Dichlorobenzene	0.833	0.763	0.817	0.825	0.826	0.813	3.48
85)	n-Butylbenzene	1.355	1.341	1.511	1.549	1.521	1.455	6.83
86) T	Hexachloroethane	0.289	0.289	0.313	0.325	0.321	0.308	5.68
87) M	1,2-Dichlorobenzene	0.762	0.717	0.755	0.785	0.766	0.757	3.30
88)	1,2-Dibromo-3-Chlor	0.119	0.120	0.122	0.134	0.130	0.125	5.28
89)	1,2,4-Trichlorobenz	0.506	0.463	0.509	0.539	0.538	0.511	6.10
90)	Hexachlorobutadiene	0.214	0.175	0.194	0.195	0.193	0.194	7.02
91) M	Naphthalene	1.525	1.573	1.722	1.803	1.748	1.674	7.12
92)	1,2,3-Trichlorobenz	0.508	0.461	0.501	0.518	0.505	0.498	4.41

(#) = Out of Range