

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N082319W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Fri Aug 23 23:15:31 2019
 Response Via : Initial Calibration

Calibration Files

5 =VN057462.D 20 =VN057463.D 50 =VN057464.D
 100 =VN057465.D 150 =VN057466.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.423	1.614	1.594	1.561	1.655	1.569	5.64
3) M	Chloromethane	2.480	2.409	2.343	2.264	2.287	2.357	3.77
4) M	Vinyl Chloride	3.013	3.180	3.018	2.830	2.929	2.994	4.31
5) M	Bromomethane	2.063	2.022	1.900	1.831	1.869	1.937	5.19
6) M	Chloroethane	2.198	2.073	1.991	1.862	1.903	2.005	6.72
7) M	Trichlorofluorometh	5.046	4.949	4.809	4.504	4.503	4.762	5.27
8) T	Diethyl Ether	2.135	1.891	1.790	1.667	1.663	1.829	10.68
9)	1,1,2-Trichlorotrif	2.996	2.801	2.632	2.500	2.481	2.682	8.09
10) M	1,1-Dichloroethene	2.950	2.618	2.539	2.432	2.409	2.589	8.43
11)	Methyl Iodide	3.549	2.006	2.015	2.026	2.041	2.328	29.34
12)	Methyl Acetate	3.522	2.524	2.367	2.278	2.352	2.609	19.88
13) M	Acrolein	0.377	0.343	0.328	0.314	0.297	0.332	9.13
14) M	Acrylonitrile	0.927	0.909	0.897	0.892	0.905	0.906	1.51
15) M	Acetone	0.472	0.486	0.433	0.361	0.368	0.424	13.60
16) M	Carbon Disulfide	4.952	4.581	4.516	4.453	4.559	4.612	4.25
17)	Allyl chloride	3.642	3.543	3.466	3.488	3.524	3.533	1.93
18) M	Methylene Chloride	2.025	1.910	1.871	1.808	1.882	1.899	4.20
19) M	trans-1,2-Dichloroe	1.987	1.749	1.754	1.716	1.736	1.788	6.27
20) T	Diisopropyl ether	7.939	7.673	7.414	7.270	7.412	7.542	3.52
21) M	1,1-Dichloroethane	4.058	3.992	3.949	3.762	3.834	3.919	3.06
22) M	cis-1,2-Dichloroeth	2.327	2.204	2.149	2.024	2.170	2.175	5.00
23) M	tert-Butyl Alcohol	0.362	0.328	0.322	0.314	0.319	0.329	5.83
24) M	Methyl tert-Butyl E	6.289	6.057	5.981	5.794	5.791	5.983	3.47
25) M	Chloroform	4.260	3.889	3.801	3.671	3.833	3.891	5.69
26)	Cyclohexane	3.904	3.490	3.353	3.316	3.385	3.490	6.89
27) s	1,2-Dichloroethane-	2.902	2.964	2.941	2.822	2.831	2.892	2.20

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.552	0.492	0.489	0.518	0.499	0.510	5.13
30) M	2-Butanone	0.260	0.246	0.241	0.243	0.236	0.245	3.74
31)	2,2-Dichloropropane	0.638	0.571	0.563	0.577	0.563	0.583	5.44
32) M	1,1,1-Trichloroetha	0.625	0.566	0.563	0.582	0.578	0.583	4.27
33) M	Carbon Tetrachlorid	0.499	0.465	0.465	0.508	0.483	0.484	4.04
34) M	Benzene	1.618	1.468	1.447	1.514	1.450	1.499	4.77
35)	Methacrylonitrile	0.218	0.254	0.247	0.266	0.256	0.248	7.36
36) M	1,2-Dichloroethane	0.654	0.564	0.561	0.595	0.563	0.588	6.78
37) M	Trichloroethene	0.365	0.337	0.333	0.344	0.332	0.342	4.03
38)	Methylcyclohexane	0.619	0.547	0.557	0.585	0.555	0.572	5.19
39) M	1,2-Dichloropropane	0.455	0.416	0.420	0.430	0.410	0.426	4.14
40)	Dibromomethane	0.279	0.252	0.251	0.268	0.253	0.261	4.71
41) M	Bromodichloromethan	0.584	0.520	0.539	0.575	0.545	0.553	4.81
42) M	Vinyl Acetate	1.145	1.064	1.073	1.119	1.084	1.097	3.09
43)	Ethyl Acetate	0.433	0.465	0.493	0.509	0.486	0.477	6.15
44)	Isopropyl Acetate	0.956	0.883	0.892	0.932	0.891	0.911	3.50
45) T	1,4-Dioxane	0.006	0.005	0.005	0.006	0.005	0.005#	7.43
46)	Methyl methacrylate	0.455	0.413	0.427	0.446	0.421	0.433	4.05
47)	n-amyl Acetate	0.696	0.661	0.739	0.788	0.782	0.733	7.49
48) M	t-1,3-Dichloroprope	0.592	0.538	0.575	0.616	0.598	0.584	5.03
49) T	cis-1,3-Dichloropro	0.666	0.609	0.619	0.675	0.639	0.642	4.45
50) M	1,1,2-Trichloroetha	0.354	0.332	0.327	0.357	0.338	0.342	3.83
51)	Ethyl methacrylate	0.550	0.530	0.574	0.606	0.580	0.568	5.13
52)	1,3-Dichloropropane	0.641	0.607	0.612	0.648	0.607	0.623	3.16

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.344	0.345	0.359	0.396	0.377	0.364	6.03
54) M	1,2-Dibromoethane	0.362	0.327	0.340	0.368	0.351	0.350	4.77
55) M	2-Chloroethyl vinyl	0.116	0.114	0.142	0.164	0.164	0.140	17.45
56) M	Bromoform	0.186	0.193	0.227	0.243	0.238	0.217	12.17
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.636	0.603	0.582	0.560	0.563	0.589	5.35
59) M	2-Hexanone	0.427	0.419	0.406	0.392	0.395	0.408	3.74
60) S	4-Bromofluorobenzene	0.426	0.469	0.525	0.533	0.520	0.495	9.23
61) M	Tetrachloroethene	0.403	0.353	0.329	0.322	0.313	0.344	10.49
62) M	Toluene	2.066	1.849	1.782	1.747	1.722	1.834	7.56
63) S	Toluene-d8	1.594	1.557	1.489	1.473	1.462	1.515	3.80
64) M	Chlorobenzene	1.051	0.985	0.984	0.980	0.984	0.997	3.06
65)	1,1,1,2-Tetrachloro	0.416	0.375	0.380	0.364	0.360	0.379	5.87
66) M	Ethyl Benzene	2.088	1.942	1.971	1.908	1.903	1.962	3.84
67) M	m/p-Xylenes	0.678	0.668	0.699	0.674	0.683	0.681	1.71
68) M	o-Xylene	0.690	0.676	0.678	0.658	0.661	0.673	1.97
69) M	Styrene	0.975	1.012	1.127	1.118	1.140	1.074	7.00
70)	Isopropylbenzene	1.773	1.769	1.842	1.800	1.813	1.799	1.67
71) M	1,1,2,2-Tetrachloro	0.514	0.511	0.539	0.521	0.517	0.520	2.09
72)	1,2,3-Trichloroprop	0.519	0.459	0.470	0.454	0.460	0.472	5.65
73)	Bromobenzene	0.345	0.346	0.379	0.375	0.376	0.364	4.62
74)	n-propylbenzene	1.894	1.939	2.140	2.133	2.153	2.052	6.08
75)	2-Chlorotoluene	1.139	1.174	1.244	1.239	1.245	1.208	4.04
76)	1,3,5-Trimethylbenz	1.422	1.445	1.531	1.492	1.492	1.477	2.92
77)	t-1,4-Dichloro-2-bu	0.135	0.161	0.180	0.184	0.187	0.169	12.84
78)	4-Chlorotoluene	0.966	1.038	1.208	1.237	1.260	1.142	11.51
79)	tert-butylbenzene	1.297	1.230	1.276	1.241	1.239	1.257	2.27
80)	1,2,4-Trimethylbenz	1.179	1.342	1.477	1.435	1.452	1.377	8.86
81)	sec-Butylbenzene	1.517	1.590	1.735	1.697	1.740	1.656	5.93
82)	p-Isopropyltoluene	1.272	1.286	1.457	1.439	1.506	1.392	7.64
83) M	1,3-Dichlorobenzene	0.436	0.511	0.606	0.624	0.659	0.567	16.12
84) M	1,4-Dichlorobenzene	0.398	0.480	0.602	0.625	0.653	0.552	19.66
85)	n-Butylbenzene	0.993	1.052	1.319	1.316	1.388	1.214	14.66
86) T	Hexachloroethane	0.269	0.270	0.291	0.288	0.286	0.281	3.66
87) M	1,2-Dichlorobenzene	0.407	0.519	0.605	0.619	0.634	0.557	16.99
88)	1,2-Dibromo-3-Chlor	0.067	0.078	0.090	0.099	0.102	0.087	16.99
89)	1,2,4-Trichlorobenz	0.125	0.130	0.200	0.276	0.312	0.209	40.29
90)	Hexachlorobutadiene	0.144	0.165	0.161	0.165	0.167	0.160	5.86
91) M	Naphthalene	0.383	0.477	0.680	0.863	0.972	0.675	36.89
92)	1,2,3-Trichlorobenz	0.107	0.146	0.203	0.276	0.311	0.209	41.17

(#) = Out of Range