

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N110920W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Mon Nov 09 13:16:36 2020
 Response Via : Initial Calibration

Calibration Files

5 =VN064503.D 20 =VN064504.D 50 =VN064505.D
 100 =VN064506.D 150 =VN064507.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.904	1.936	2.108	2.097	2.002	2.009	4.58
3) M	Chloromethane	2.293	2.139	2.381	2.382	2.268	2.293	4.36
4) M	Vinyl Chloride	2.514	2.286	2.564	2.584	2.472	2.484	4.79
5) M	Bromomethane	1.797	1.537	1.693	1.591	1.511	1.626	7.28
6) M	Chloroethane	1.546	1.461	1.635	1.592	1.522	1.551	4.30
7) M	Trichlorofluorometh	3.774	3.426	3.777	3.596	3.412	3.597	4.96
8) T	Diethyl Ether	1.333	1.212	1.342	1.315	1.221	1.285	4.91
9)	1,1,2-Trichlorotrif	1.745	1.628	1.742	1.714	1.636	1.693	3.36
10) M	1,1-Dichloroethene	1.656	1.478	1.691	1.660	1.613	1.620	5.18
11)	Methyl Iodide	1.684	1.728	2.178	2.223	2.170	1.997	13.36
12)	Methyl Acetate	1.817	1.830	2.143	2.110	1.974	1.975	7.70
13) M	Acrolein	0.196	0.162	0.203	0.217	0.222	0.200	11.91
14) M	Acrylonitrile	0.826	0.765	0.947	0.948	0.905	0.878	9.16
15) M	Acetone	0.283	0.310	0.318	0.285	0.254	0.290	8.73
16) M	Carbon Disulfide	5.068	4.540	4.995	5.061	4.910	4.915	4.46
17)	Allyl chloride	2.740	2.742	3.236	3.296	3.201	3.043	9.12
18) M	Methylene Chloride	1.976	1.777	1.986	1.967	1.909	1.923	4.53
19) M	trans-1,2-Dichloroe	1.840	1.656	1.908	1.911	1.862	1.836	5.70
20) T	Diisopropyl ether	5.904	5.896	7.013	7.244	7.070	6.625	10.08
21) M	1,1-Dichloroethane	3.664	3.326	3.784	3.803	3.640	3.643	5.26
22) M	cis-1,2-Dichloroeth	1.996	1.811	2.192	2.228	2.174	2.080	8.41
23) M	tert-Butyl Alcohol	0.268	0.280	0.338	0.323	0.294	0.301	9.67
24) M	Methyl tert-Butyl E	5.167	5.090	6.148	6.224	6.013	5.728	9.66
25) M	Chloroform	3.730	3.609	4.018	3.973	3.812	3.829	4.42
26)	Cyclohexane	2.420	2.504	2.983	3.115	3.042	2.813	11.55
27) s	1,2-Dichloroethane-	2.711	2.716	2.781	2.568	2.503	2.656	4.35

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.489	0.478	0.533	0.549	0.554	0.521	6.70
30) M	2-Butanone	0.239	0.246	0.277	0.272	0.255	0.258	6.23
31)	2,2-Dichloropropane	0.605	0.573	0.639	0.648	0.628	0.618	4.83
32) M	1,1,1-Trichloroetha	0.625	0.590	0.659	0.663	0.656	0.639	4.90
33) M	Carbon Tetrachlorid	0.569	0.526	0.581	0.596	0.580	0.570	4.69
34) M	Benzene	1.465	1.368	1.538	1.592	1.574	1.507	6.09
35)	Methacrylonitrile	0.199	0.197	0.268	0.283	0.258	0.241	16.65
36) M	1,2-Dichloroethane	0.648	0.579	0.628	0.627	0.611	0.619	4.12
37) M	Trichloroethene	0.389	0.340	0.387	0.394	0.396	0.381	6.17
38)	Methylcyclohexane	0.424	0.416	0.480	0.517	0.519	0.471	10.49
39) M	1,2-Dichloropropane	0.390	0.372	0.416	0.426	0.421	0.405	5.68
40)	Dibromomethane	0.263	0.253	0.284	0.285	0.282	0.273	5.30
41) M	Bromodichloromethan	0.579	0.547	0.603	0.623	0.608	0.592	4.99
42) M	Vinyl Acetate	0.918	0.919	1.102	1.138	1.081	1.032	10.19
43)	Ethyl Acetate	0.480	0.409	0.546	0.544	0.528	0.501	11.56
44)	Isopropyl Acetate	0.810	0.750	0.911	0.935	0.923	0.866	9.44
45) T	1,4-Dioxane	0.006	0.006	0.007	0.006	0.006	0.006#	8.82
46)	Methyl methacrylate	0.389	0.367	0.452	0.486	0.459	0.430	11.63
47)	n-amyl Acetate	0.549	0.624	0.814	0.879	0.878	0.749	20.39
48) M	t-1,3-Dichloroprope	0.551	0.555	0.648	0.692	0.691	0.628	11.16
49) T	cis-1,3-Dichloropro	0.609	0.585	0.674	0.716	0.714	0.659	9.10
50) M	1,1,2-Trichloroetha	0.372	0.336	0.387	0.394	0.384	0.375	6.18
51)	Ethyl methacrylate	0.416	0.451	0.575	0.622	0.620	0.537	18.05
52)	1,3-Dichloropropane	0.620	0.569	0.659	0.686	0.683	0.644	7.65

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.396	0.382	0.442	0.462	0.462	0.429	8.75
54) M	1,2-Dibromoethane	0.351	0.335	0.406	0.416	0.408	0.383	9.72
55) M	2-Chloroethyl vinyl	0.226	0.254	0.299	0.315	0.311	0.281	13.91
56) M	Bromoform	0.243	0.250	0.293	0.311	0.312	0.282	11.82
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.508	0.502	0.602	0.594	0.549	0.551	8.44
59) M	2-Hexanone	0.363	0.381	0.459	0.451	0.422	0.415	10.19
60) S	4-Bromofluorobenzene	0.477	0.509	0.528	0.523	0.533	0.514	4.34
61) M	Tetrachloroethene	0.395	0.347	0.376	0.379	0.377	0.375	4.70
62) M	Toluene	1.742	1.602	1.800	1.850	1.815	1.762	5.53
63) S	Toluene-d8	1.425	1.430	1.391	1.377	1.372	1.399	1.93
64) M	Chlorobenzene	1.006	0.943	1.068	1.109	1.111	1.047	6.90
65)	1,1,1,2-Tetrachloro	0.394	0.372	0.415	0.437	0.429	0.409	6.45
66) M	Ethyl Benzene	1.728	1.660	1.992	2.088	2.039	1.901	10.20
67) M	m/p-Xylenes	0.606	0.625	0.734	0.768	0.776	0.702	11.50
68) M	o-Xylene	0.566	0.585	0.694	0.737	0.738	0.664	12.49
69) M	Styrene	0.894	0.980	1.222	1.288	1.303	1.137	16.55
70)	Isopropylbenzene	1.454	1.539	1.850	1.935	1.914	1.738	12.93
71) M	1,1,2,2-Tetrachloro	0.522	0.499	0.584	0.593	0.586	0.557	7.72
72)	1,2,3-Trichloroprop	0.564	0.472	0.562	0.564	0.614	0.555	9.21
73)	Bromobenzene	0.403	0.373	0.446	0.464	0.463	0.430	9.38
74)	n-propylbenzene	1.758	1.794	2.182	2.273	2.215	2.045	12.10
75)	2-Chlorotoluene	1.150	1.154	1.330	1.394	1.400	1.286	9.73
76)	1,3,5-Trimethylbenz	1.206	1.311	1.561	1.631	1.628	1.467	13.38
77)	t-1,4-Dichloro-2-bu	0.164	0.171	0.218	0.229	0.230	0.202	16.05
78)	4-Chlorotoluene	1.164	1.199	1.411	1.486	1.494	1.351	11.71
79)	tert-butylbenzene	0.957	0.976	1.222	1.292	1.311	1.152	14.97
80)	1,2,4-Trimethylbenz	1.170	1.295	1.604	1.661	1.664	1.479	15.59
81)	sec-Butylbenzene	1.271	1.346	1.612	1.705	1.699	1.527	13.39
82)	p-Isopropyltoluene	1.058	1.185	1.449	1.554	1.572	1.364	16.89
83) M	1,3-Dichlorobenzene	0.649	0.652	0.794	0.836	0.851	0.756	13.08
84) M	1,4-Dichlorobenzene	0.643	0.641	0.793	0.836	0.849	0.752	13.68
85)	n-Butylbenzene	0.939	0.975	1.245	1.359	1.394	1.182	18.04
86) T	Hexachloroethane	0.252	0.239	0.283	0.291	0.294	0.272	9.20
87) M	1,2-Dichlorobenzene	0.631	0.635	0.777	0.820	0.821	0.737	13.08
88)	1,2-Dibromo-3-Chlor	0.107	0.104	0.132	0.131	0.128	0.120	11.32
89)	1,2,4-Trichlorobenz	0.238	0.260	0.362	0.399	0.414	0.335	24.12
90)	Hexachlorobutadiene	0.180	0.146	0.165	0.172	0.171	0.167	7.57
91) M	Naphthalene	0.719	0.827	1.238	1.361	1.389	1.107	28.23
92)	1,2,3-Trichlorobenz	0.259	0.273	0.365	0.387	0.408	0.339	20.10

(#) = Out of Range