

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N092419W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Wed Sep 25 01:36:25 2019
 Response Via : Initial Calibration

Calibration Files

5 =VN058342.D 20 =VN058337.D 50 =VN058338.D
 100 =VN058339.D 150 =VN058340.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.695	1.860	1.811	1.808	1.846	1.804	3.60
3) M	Chloromethane	2.224	2.058	2.033	2.038	2.062	2.083	3.82
4) M	Vinyl Chloride	2.117	2.105	2.059	2.026	2.086	2.079	1.75
5) M	Bromomethane	1.355	1.057	1.055	1.077	1.099	1.129	11.31
6) M	Chloroethane	1.199	1.258	1.255	1.211	1.219	1.228	2.15
7) M	Trichlorofluorometh	2.497	2.528	2.419	2.373	2.420	2.447	2.60
8) T	Diethyl Ether	1.109	1.072	1.086	1.069	1.104	1.088	1.68
9)	1,1,2-Trichlorotrif	1.784	1.676	1.661	1.632	1.671	1.685	3.45
10) M	1,1-Dichloroethene	1.725	1.643	1.612	1.601	1.653	1.647	2.95
11)	Methyl Iodide	1.281	1.498	1.718	1.925	2.023	1.689	18.04
12)	Methyl Acetate	2.361	2.093	2.117	2.150	2.248	2.193	5.04
13) M	Acrolein	0.046	0.063	0.051	0.074	0.078	0.062	22.55
14) M	Acrylonitrile	0.903	0.886	0.902	0.905	0.932	0.906	1.84
15) M	Acetone	0.262	0.264	0.253	0.237	0.239	0.251	5.00
16) M	Carbon Disulfide	4.720	4.241	4.437	4.620	4.867	4.577	5.34
17)	Allyl chloride	3.019	3.016	3.063	3.088	3.195	3.076	2.37
18) M	Methylene Chloride	2.034	1.943	1.919	1.892	1.926	1.943	2.79
19) M	trans-1,2-Dichloroe	1.934	1.829	1.813	1.805	1.851	1.846	2.81
20) T	Diisopropyl ether	6.424	6.390	6.483	6.648	6.830	6.555	2.79
21) M	1,1-Dichloroethane	3.687	3.613	3.662	3.622	3.756	3.668	1.57
22) M	cis-1,2-Dichloroeth	2.189	2.121	2.120	2.125	2.167	2.145	1.48
23) M	tert-Butyl Alcohol	0.352	0.322	0.323	0.327	0.348	0.334	4.35
24) M	Methyl tert-Butyl E	5.974	5.832	5.852	5.846	6.054	5.912	1.66
25) M	Chloroform	3.887	3.634	3.642	3.663	3.744	3.714	2.86
26)	Cyclohexane	3.408	3.358	3.452	3.445	3.478	3.428	1.36
27) s	1,2-Dichloroethane-	2.708	2.688	2.639	2.640	2.585	2.652	1.81

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.486	0.477	0.493	0.490	0.503	0.490	1.95
30) M	2-Butanone	0.227	0.217	0.222	0.219	0.227	0.222	1.92
31)	2,2-Dichloropropane	0.489	0.486	0.508	0.509	0.530	0.504	3.58
32) M	1,1,1-Trichloroetha	0.498	0.513	0.533	0.535	0.562	0.528	4.59
33) M	Carbon Tetrachlorid	0.419	0.432	0.454	0.458	0.481	0.449	5.35
34) M	Benzene	1.420	1.368	1.409	1.379	1.370	1.389	1.72
35)	Methacrylonitrile	0.154	0.181	0.207	0.199	0.214	0.191	12.59
36) M	1,2-Dichloroethane	0.567	0.528	0.535	0.537	0.554	0.544	2.93
37) M	Trichloroethene	0.356	0.339	0.345	0.345	0.354	0.348	2.06
38)	Methylcyclohexane	0.598	0.562	0.595	0.595	0.611	0.592	3.09
39) M	1,2-Dichloropropane	0.390	0.366	0.378	0.374	0.386	0.379	2.52
40)	Dibromomethane	0.240	0.233	0.240	0.239	0.244	0.239	1.66
41) M	Bromodichloromethan	0.442	0.449	0.476	0.487	0.510	0.473	5.87
42) M	Vinyl Acetate	0.869	0.893	0.932	0.823	0.727	0.849	9.26
43)	Ethyl Acetate	0.399	0.423	0.456	0.453	0.476	0.441	6.80
44)	Isopropyl Acetate	0.766	0.763	0.790	0.800	0.832	0.790	3.58
45) T	1,4-Dioxane	0.007	0.007	0.007	0.006	0.007	0.007#	3.94
46)	Methyl methacrylate	0.364	0.352	0.372	0.382	0.403	0.375	5.16
47)	n-amyl Acetate	0.600	0.634	0.708	0.735	0.762	0.688	9.92
48) M	t-1,3-Dichloroprope	0.440	0.473	0.531	0.553	0.585	0.517	11.44
49) T	cis-1,3-Dichloropro	0.523	0.548	0.581	0.596	0.627	0.575	7.06
50) M	1,1,2-Trichloroetha	0.343	0.325	0.331	0.329	0.342	0.334	2.39
51)	Ethyl methacrylate	0.483	0.495	0.537	0.551	0.578	0.529	7.47
52)	1,3-Dichloropropane	0.586	0.582	0.599	0.592	0.610	0.594	1.88

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.290	0.308	0.345	0.358	0.378	0.336	10.72
54) M	1,2-Dibromoethane	0.326	0.326	0.348	0.345	0.361	0.341	4.49
55) M	2-Chloroethyl vinyl	0.205	0.214	0.233	0.236	0.232	0.224	6.13
56) M	Bromoform	0.166	0.183	0.219	0.235	0.256	0.212	17.39
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.521	0.499	0.499	0.446	0.385	0.470	11.74
59) M	2-Hexanone	0.380	0.364	0.372	0.347	0.314	0.355	7.35
60) S	4-Bromofluorobenzen	0.502	0.510	0.514	0.531	0.538	0.519	2.83
61) M	Tetrachloroethene	0.313	0.307	0.311	0.315	0.325	0.314	2.14
62) M	Toluene	1.757	1.653	1.671	1.627	1.507	1.643	5.49
63) S	Toluene-d8	1.451	1.430	1.406	1.438	1.433	1.432	1.13
64) M	Chlorobenzene	1.042	1.002	0.993	1.004	1.007	1.010	1.84
65)	1,1,1,2-Tetrachloro	0.335	0.337	0.352	0.364	0.382	0.354	5.58
66) M	Ethyl Benzene	1.912	1.848	1.870	1.765	1.563	1.792	7.72
67) M	m/p-Xylenes	0.692	0.679	0.696	0.695	0.678	0.688	1.23
68) M	o-Xylene	0.651	0.658	0.663	0.680	0.692	0.669	2.55
69) M	Styrene	1.057	1.089	1.140	1.164	1.143	1.118	3.93
70)	Isopropylbenzene	1.792	1.786	1.824	1.730	1.533	1.733	6.73
71) M	1,1,2,2-Tetrachloro	0.549	0.533	0.549	0.554	0.570	0.551	2.40
72)	1,2,3-Trichloroprop	0.492	0.469	0.485	0.458	0.465	0.474	2.95
73)	Bromobenzene	0.418	0.409	0.415	0.423	0.434	0.420	2.30
74)	n-propylbenzene	2.087	2.090	2.173	1.969	1.672	1.998	9.82
75)	2-Chlorotoluene	1.270	1.232	1.259	1.267	1.221	1.250	1.73
76)	1,3,5-Trimethylbenz	1.476	1.513	1.570	1.519	1.384	1.492	4.63
77)	t-1,4-Dichloro-2-bu	0.114	0.131	0.157	0.178	0.192	0.155	20.71
78)	4-Chlorotoluene	1.254	1.262	1.309	1.324	1.255	1.281	2.59
79)	tert-butylbenzene	1.260	1.262	1.342	1.328	1.269	1.292	3.04
80)	1,2,4-Trimethylbenz	1.462	1.526	1.572	1.508	1.380	1.490	4.89
81)	sec-Butylbenzene	1.687	1.755	1.807	1.712	1.513	1.695	6.57
82)	p-Isopropyltoluene	1.502	1.543	1.628	1.568	1.390	1.526	5.80
83) M	1,3-Dichlorobenzene	0.758	0.745	0.767	0.792	0.811	0.775	3.44
84) M	1,4-Dichlorobenzene	0.751	0.731	0.765	0.797	0.809	0.771	4.16
85)	n-Butylbenzene	1.315	1.398	1.519	1.491	1.367	1.418	6.01
86) T	Hexachloroethane	0.198	0.224	0.249	0.271	0.291	0.247	14.92
87) M	1,2-Dichlorobenzene	0.732	0.735	0.755	0.773	0.787	0.756	3.13
88)	1,2-Dibromo-3-Chlor	0.093	0.097	0.110	0.115	0.124	0.108	11.82
89)	1,2,4-Trichlorobenz	0.474	0.443	0.487	0.522	0.545	0.494	8.14
90)	Hexachlorobutadiene	0.243	0.222	0.233	0.243	0.254	0.239	4.94
91) M	Naphthalene	1.389	1.227	1.391	1.414	1.362	1.357	5.52
92)	1,2,3-Trichlorobenz	0.474	0.425	0.471	0.489	0.515	0.475	6.90

(#) = Out of Range