

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N081719W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Fri Aug 16 15:42:00 2019
 Response Via : Initial Calibration

Calibration Files

5 =VN057347.D 20 =VN057348.D 50 =VN057349.D
 100 =VN057350.D 150 =VN057351.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.338	1.669	1.580	1.588	1.573	1.550	8.03
3) M	Chloromethane	1.695	1.816	1.814	1.768	1.843	1.787	3.26
4) M	Vinyl Chloride	1.611	1.765	1.710	1.716	1.746	1.710	3.47
5) M	Bromomethane	1.498	1.379	1.313	1.292	1.169	1.330	9.08
6) M	Chloroethane	1.171	1.196	1.172	1.151	1.166	1.171	1.37
7) M	Trichlorofluorometh	2.733	2.831	2.712	2.710	2.714	2.740	1.89
8) T	Diethyl Ether	0.983	1.017	0.998	1.011	1.033	1.008	1.87
9)	1,1,2-Trichlorotrif	1.689	1.689	1.599	1.567	1.614	1.632	3.38
10) M	1,1-Dichloroethene	1.615	1.635	1.620	1.583	1.638	1.618	1.35
11)	Methyl Iodide	2.541	2.716	2.749	2.790	2.848	2.729	4.24
12)	Methyl Acetate	2.232	1.785	1.687	1.673	1.719	1.819	12.90
13) M	Acrolein	0.196	0.155	0.164	0.170	0.176	0.172	9.07
14) M	Acrylonitrile	0.720	0.726	0.726	0.745	0.767	0.737	2.61
15) M	Acetone	0.235	0.229	0.208	0.207	0.207	0.217	6.33
16) M	Carbon Disulfide	4.346	4.384	4.369	4.449	4.568	4.423	2.03
17)	Allyl chloride	2.491	2.320	2.245	2.219	2.542	2.364	6.16
18) M	Methylene Chloride	1.903	1.877	1.822	1.814	1.845	1.852	2.02
19) M	trans-1,2-Dichloroe	1.871	1.751	1.710	1.697	1.732	1.752	3.97
20) T	Diisopropyl ether	5.141	4.994	4.831	4.767	4.875	4.922	3.01
21) M	1,1-Dichloroethane	3.105	3.100	2.987	2.992	3.021	3.041	1.90
22) M	cis-1,2-Dichloroeth	2.119	2.051	1.996	1.968	2.020	2.031	2.86
23) M	tert-Butyl Alcohol	0.257	0.254	0.257	0.269	0.276	0.263	3.60
24) M	Methyl tert-Butyl E	5.001	4.989	4.887	4.907	5.045	4.966	1.34
25) M	Chloroform	3.351	3.222	3.101	3.082	3.135	3.179	3.48
26)	Cyclohexane	2.539	2.575	2.476	2.502	2.547	2.528	1.53
27) s	1,2-Dichloroethane-	1.918	1.940	1.925	1.955	1.907	1.929	0.97

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.446	0.442	0.433	0.423	0.438	0.436	2.08
30) M	2-Butanone	0.176	0.175	0.169	0.168	0.172	0.172	1.95
31)	2,2-Dichloropropane	0.490	0.491	0.475	0.465	0.470	0.478	2.44
32) M	1,1,1-Trichloroetha	0.512	0.533	0.511	0.505	0.518	0.516	2.03
33) M	Carbon Tetrachlorid	0.453	0.464	0.460	0.452	0.468	0.459	1.50
34) M	Benzene	1.377	1.350	1.299	1.276	1.319	1.324	3.03
35)	Methacrylonitrile	0.202	0.197	0.240	0.264	0.254	0.231	13.10
36) M	1,2-Dichloroethane	0.457	0.429	0.426	0.414	0.425	0.430	3.73
37) M	Trichloroethene	0.406	0.391	0.378	0.369	0.382	0.385	3.66
38)	Methylcyclohexane	0.520	0.527	0.511	0.505	0.521	0.517	1.69
39) M	1,2-Dichloropropane	0.342	0.345	0.339	0.328	0.338	0.338	1.94
40)	Dibromomethane	0.232	0.229	0.220	0.218	0.226	0.225	2.68
41) M	Bromodichloromethan	0.457	0.460	0.452	0.443	0.467	0.456	1.97
42) M	Vinyl Acetate	0.705	0.740	0.721	0.713	0.742	0.724	2.24
43)	Ethyl Acetate	0.365	0.355	0.345	0.345	0.356	0.353	2.43
44)	Isopropyl Acetate	0.623	0.633	0.618	0.608	0.624	0.622	1.47
45) T	1,4-Dioxane	0.006	0.006	0.006	0.006	0.006	0.006#	2.67
46)	Methyl methacrylate	0.260	0.280	0.281	0.282	0.292	0.279	4.21
47)	n-amyl Acetate	0.393	0.428	0.457	0.498	0.520	0.459	11.22
48) M	t-1,3-Dichloroprope	0.468	0.493	0.490	0.494	0.522	0.493	3.88
49) T	cis-1,3-Dichloropro	0.529	0.559	0.548	0.543	0.568	0.549	2.72
50) M	1,1,2-Trichloroetha	0.341	0.334	0.323	0.316	0.328	0.329	2.88
51)	Ethyl methacrylate	0.432	0.470	0.479	0.487	0.513	0.476	6.17
52)	1,3-Dichloropropane	0.541	0.547	0.530	0.523	0.541	0.537	1.81

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.357	0.381	0.378	0.377	0.397	0.378	3.76
54) M	1,2-Dibromoethane	0.336	0.352	0.344	0.342	0.357	0.346	2.37
55) M	2-Chloroethyl vinyl	0.085	0.098	0.109	0.123	0.139	0.111	18.93
56) M	Bromoform	0.251	0.270	0.285	0.303	0.317	0.285	9.11
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.404	0.399	0.381	0.377	0.393	0.391	2.93
59) M	2-Hexanone	0.284	0.286	0.273	0.277	0.283	0.280	1.93
60) S	4-Bromofluorobenzen	0.381	0.433	0.449	0.468	0.477	0.442	8.59
61) M	Tetrachloroethene	0.505	0.473	0.427	0.396	0.397	0.440	11.00
62) M	Toluene	1.784	1.721	1.616	1.560	1.592	1.655	5.69
63) S	Toluene-d8	1.415	1.384	1.349	1.317	1.300	1.353	3.49
64) M	Chlorobenzene	1.081	1.055	1.025	1.001	1.035	1.039	2.93
65)	1,1,1,2-Tetrachloro	0.430	0.420	0.396	0.381	0.393	0.404	5.00
66) M	Ethyl Benzene	1.841	1.848	1.783	1.755	1.812	1.808	2.17
67) M	m/p-Xylenes	0.658	0.692	0.671	0.669	0.692	0.677	2.25
68) M	o-Xylene	0.657	0.679	0.649	0.648	0.673	0.661	2.14
69) M	Styrene	0.921	1.055	1.065	1.104	1.168	1.063	8.54
70)	Isopropylbenzene	1.733	1.817	1.757	1.751	1.808	1.773	2.10
71) M	1,1,2,2-Tetrachloro	0.500	0.497	0.474	0.475	0.482	0.486	2.52
72)	1,2,3-Trichloroprop	0.416	0.417	0.398	0.401	0.418	0.410	2.37
73)	Bromobenzene	0.444	0.460	0.468	0.475	0.502	0.470	4.55
74)	n-propylbenzene	1.622	1.798	1.842	1.915	2.033	1.842	8.24
75)	2-Chlorotoluene	1.048	1.155	1.142	1.152	1.218	1.143	5.35
76)	1,3,5-Trimethylbenz	1.363	1.505	1.467	1.482	1.557	1.475	4.82
77)	t-1,4-Dichloro-2-bu	0.134	0.148	0.157	0.169	0.178	0.157	10.97
78)	4-Chlorotoluene	0.924	1.006	1.054	1.138	1.224	1.069	10.88
79)	tert-butylbenzene	1.287	1.334	1.283	1.307	1.360	1.314	2.48
80)	1,2,4-Trimethylbenz	1.233	1.395	1.390	1.422	1.515	1.391	7.31
81)	sec-Butylbenzene	1.497	1.579	1.596	1.674	1.756	1.620	6.09
82)	p-Isopropyltoluene	1.330	1.373	1.417	1.514	1.623	1.451	8.13
83) M	1,3-Dichlorobenzene	0.553	0.653	0.680	0.759	0.797	0.688	13.86
84) M	1,4-Dichlorobenzene	0.511	0.580	0.634	0.717	0.771	0.643	16.18
85)	n-Butylbenzene	0.844	1.059	1.092	1.145	1.256	1.079	14.03
86) T	Hexachloroethane	0.273	0.274	0.274	0.281	0.294	0.279	3.24
87) M	1,2-Dichlorobenzene	0.534	0.633	0.641	0.713	0.731	0.650	12.04
88)	1,2-Dibromo-3-Chlor	0.051	0.058	0.062	0.072	0.082	0.065	18.36
89)	1,2,4-Trichlorobenz	0.124	0.155	0.222	0.298	0.352	0.230	41.47
90)	Hexachlorobutadiene	0.306	0.303	0.281	0.293	0.286	0.294	3.59
91) M	Naphthalene	0.263	0.292	0.441	0.638	0.853	0.497	49.96
92)	1,2,3-Trichlorobenz	0.126	0.144	0.207	0.262	0.353	0.218	42.35

(#) = Out of Range