

Method Path : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\
 Method File : 624N081019W.M
 Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 Last Update : Sun Aug 11 03:53:25 2019
 Response Via : Initial Calibration

Calibration Files

5 =VN057164.D 20 =VN057165.D 50 =VN057166.D
 100 =VN057167.D 150 =VN057168.D

	Compound	5	20	50	100	150	Avg	%RSD

1) I	Bromochloromethane	-----ISTD-----						
2) M	Dichlorodifluoromet	1.408	1.823	1.612	1.627	1.711	1.636	9.33
3) M	Chloromethane	1.792	2.048	1.840	1.809	1.988	1.896	6.07
4) M	Vinyl Chloride	1.847	2.046	1.845	1.882	2.021	1.928	5.05
5) M	Bromomethane	1.415	1.447	1.296	1.306	1.404	1.374	4.96
6) M	Chloroethane	1.256	1.320	1.175	1.213	1.289	1.250	4.66
7) M	Trichlorofluorometh	2.860	3.098	2.695	2.749	2.974	2.875	5.72
8) T	Diethyl Ether	1.078	1.123	0.995	1.046	1.117	1.072	4.94
9)	1,1,2-Trichlorotrif	1.858	1.822	1.617	1.625	1.775	1.739	6.44
10) M	1,1-Dichloroethene	1.735	1.801	1.616	1.663	1.784	1.720	4.59
11)	Methyl Iodide	2.296	2.786	2.615	2.747	2.974	2.683	9.39
12)	Methyl Acetate	2.034	1.876	1.633	1.634	1.780	1.791	9.51
13) M	Acrolein	0.199	0.195	0.200	0.191	0.203	0.198	2.32
14) M	Acrylonitrile	0.718	0.787	0.715	0.718	0.798	0.747	5.53
15) M	Acetone	0.226	0.304	0.248	0.227	0.235	0.248	13.01
16) M	Carbon Disulfide	4.537	4.725	4.400	4.560	4.974	4.639	4.74
17)	Allyl chloride	2.652	2.745	2.315	2.363	2.600	2.535	7.37
18) M	Methylene Chloride	2.028	2.068	1.835	1.840	1.977	1.950	5.50
19) M	trans-1,2-Dichloroe	1.934	1.920	1.705	1.759	1.899	1.844	5.65
20) T	Diisopropyl ether	5.325	5.445	4.841	4.967	5.273	5.170	4.93
21) M	1,1-Dichloroethane	3.387	3.391	2.976	3.086	3.261	3.220	5.73
22) M	cis-1,2-Dichloroeth	2.153	2.200	1.954	2.026	2.159	2.098	4.94
23) M	tert-Butyl Alcohol	0.231	0.263	0.234	0.242	0.263	0.247	6.28
24) M	Methyl tert-Butyl E	4.972	5.265	4.784	4.924	5.340	5.057	4.67
25) M	Chloroform	3.569	3.421	3.052	3.160	3.354	3.311	6.23
26)	Cyclohexane	2.787	2.835	2.604	2.677	2.862	2.753	3.96
27) s	1,2-Dichloroethane-	1.938	1.989	1.930	1.934	1.987	1.956	1.51

28) I	1,4-Difluorobenzene	-----ISTD-----						
29)	1,1-Dichloropropene	0.456	0.472	0.425	0.443	0.460	0.451	3.99
30) M	2-Butanone	0.172	0.194	0.173	0.171	0.178	0.178	5.26
31)	2,2-Dichloropropane	0.496	0.502	0.456	0.472	0.486	0.482	3.91
32) M	1,1,1-Trichloroetha	0.543	0.542	0.488	0.508	0.532	0.522	4.60
33) M	Carbon Tetrachlorid	0.471	0.478	0.437	0.459	0.481	0.465	3.85
34) M	Benzene	1.487	1.412	1.283	1.325	1.379	1.377	5.74
35)	Methacrylonitrile	0.164	0.188	0.173	0.182	0.191	0.180	6.27
36) M	1,2-Dichloroethane	0.469	0.458	0.411	0.423	0.439	0.440	5.40
37) M	Trichloroethene	0.420	0.404	0.365	0.376	0.392	0.391	5.61
38)	Methylcyclohexane	0.538	0.552	0.508	0.535	0.558	0.538	3.60
39) M	1,2-Dichloropropane	0.380	0.365	0.330	0.342	0.357	0.355	5.51
40)	Dibromomethane	0.234	0.240	0.214	0.223	0.231	0.229	4.40
41) M	Bromodichloromethan	0.441	0.473	0.430	0.454	0.474	0.454	4.27
42) M	Vinyl Acetate	0.726	0.760	0.708	0.736	0.763	0.738	3.14
43)	Ethyl Acetate	0.271	0.353	0.323	0.344	0.348	0.328	10.35
44)	Isopropyl Acetate	0.603	0.618	0.550	0.588	0.615	0.595	4.63
45) T	1,4-Dioxane	0.005	0.006	0.005	0.005	0.006	0.006#	3.96
46)	Methyl methacrylate	0.256	0.273	0.262	0.274	0.292	0.271	5.21
47)	n-amyl Acetate	0.330	0.407	0.440	0.488	0.524	0.438	17.16
48) M	t-1,3-Dichloroprope	0.449	0.490	0.457	0.499	0.527	0.485	6.62
49) T	cis-1,3-Dichloropro	0.523	0.558	0.528	0.556	0.581	0.549	4.34
50) M	1,1,2-Trichloroetha	0.336	0.338	0.307	0.320	0.332	0.327	4.02
51)	Ethyl methacrylate	0.417	0.459	0.450	0.471	0.508	0.461	7.14
52)	1,3-Dichloropropane	0.568	0.565	0.510	0.529	0.551	0.544	4.57

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	Compound	5	20	50	100	150	Avg	%RSD
53) M	Dibromochloromethan	0.344	0.374	0.352	0.375	0.396	0.368	5.58
54) M	1,2-Dibromoethane	0.333	0.348	0.324	0.341	0.358	0.341	3.84
55) M	2-Chloroethyl vinyl	0.105	0.115	0.130	0.142	0.160	0.130	16.76
56) M	Bromoform	0.239	0.268	0.262	0.284	0.307	0.272	9.32
57) I	Chlorobenzene-d5	-----ISTD-----						
58) M	4-Methyl-2-Pentanone	0.389	0.406	0.368	0.376	0.389	0.385	3.74
59) M	2-Hexanone	0.270	0.293	0.272	0.273	0.278	0.277	3.37
60) S	4-Bromofluorobenzen	0.387	0.433	0.456	0.480	0.477	0.447	8.54
61) M	Tetrachloroethene	0.585	0.490	0.411	0.409	0.407	0.460	16.93
62) M	Toluene	1.896	1.772	1.585	1.628	1.657	1.708	7.39
63) S	Toluene-d8	1.468	1.394	1.374	1.352	1.337	1.385	3.70
64) M	Chlorobenzene	1.098	1.073	0.993	1.030	1.057	1.050	3.85
65)	1,1,1,2-Tetrachloro	0.435	0.409	0.377	0.393	0.400	0.403	5.32
66) M	Ethyl Benzene	1.862	1.879	1.737	1.814	1.861	1.830	3.13
67) M	m/p-Xylenes	0.681	0.711	0.664	0.690	0.705	0.690	2.70
68) M	o-Xylene	0.664	0.692	0.642	0.669	0.683	0.670	2.88
69) M	Styrene	0.929	1.079	1.055	1.132	1.177	1.075	8.74
70)	Isopropylbenzene	1.797	1.863	1.731	1.794	1.837	1.804	2.79
71) M	1,1,2,2-Tetrachloro	0.522	0.511	0.468	0.481	0.488	0.494	4.45
72)	1,2,3-Trichloroprop	0.440	0.442	0.410	0.426	0.444	0.433	3.33
73)	Bromobenzene	0.445	0.464	0.457	0.476	0.497	0.468	4.18
74)	n-propylbenzene	1.647	1.865	1.880	1.998	2.082	1.894	8.68
75)	2-Chlorotoluene	1.116	1.184	1.141	1.192	1.226	1.172	3.71
76)	1,3,5-Trimethylbenz	1.459	1.563	1.460	1.536	1.578	1.519	3.71
77)	t-1,4-Dichloro-2-bu	0.116	0.137	0.144	0.158	0.172	0.146	14.77
78)	4-Chlorotoluene	0.916	1.049	1.069	1.177	1.230	1.088	11.23
79)	tert-butylbenzene	1.368	1.374	1.270	1.324	1.359	1.339	3.24
80)	1,2,4-Trimethylbenz	1.287	1.432	1.401	1.494	1.549	1.433	6.92
81)	sec-Butylbenzene	1.562	1.698	1.629	1.740	1.812	1.688	5.74
82)	p-Isopropyltoluene	1.329	1.439	1.475	1.601	1.674	1.503	9.05
83) M	1,3-Dichlorobenzene	0.555	0.672	0.710	0.796	0.829	0.712	15.18
84) M	1,4-Dichlorobenzene	0.472	0.602	0.663	0.766	0.811	0.663	20.36
85)	n-Butylbenzene	0.782	1.007	1.075	1.223	1.347	1.087	19.83
86) T	Hexachloroethane	0.264	0.267	0.260	0.279	0.297	0.273	5.47
87) M	1,2-Dichlorobenzene	0.561	0.691	0.703	0.786	0.793	0.706	13.29
88)	1,2-Dibromo-3-Chlor	0.053	0.065	0.066	0.079	0.084	0.069	17.85
89)	1,2,4-Trichlorobenz	0.120	0.208	0.296	0.384	0.407	0.283	42.46
90)	Hexachlorobutadiene	0.317	0.301	0.293	0.306	0.305	0.305	2.81
91) M	Naphthalene	0.252	0.358	0.507	0.724	0.840	0.536	45.79
92)	1,2,3-Trichlorobenz	0.111	0.214	0.269	0.342	0.364	0.260	39.31

(#) = Out of Range