

Binding media investigation using Py-GC\MS

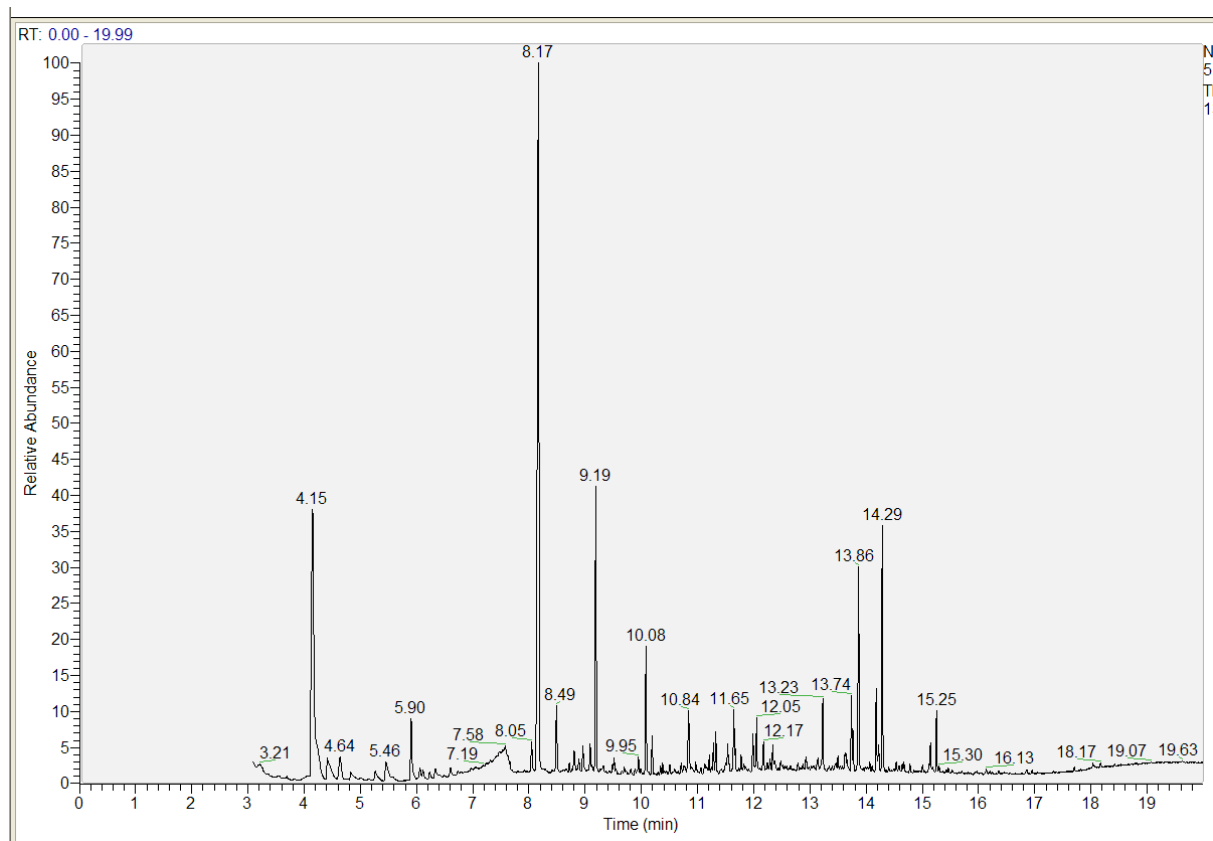


Fig. 11 Chromatogram of obtained from a green sample in Py-GC\MS investigation. The sample was pyrolysed in the presence of TMAH at 850 oC. The retention times for some of the peaks are indicated.

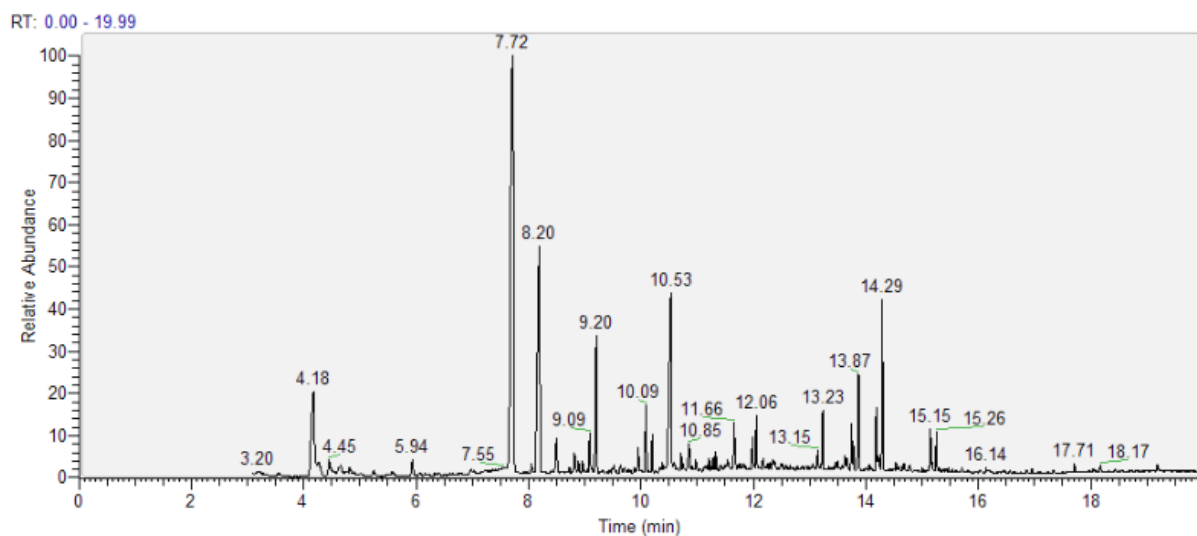


Fig. 12 Chromatogram of obtained from a white sample in Py-GC\MS investigation. The sample was pyrolysed in the presence of TMAH at 850 oC. The retention times for some of the peaks are indicated.

Table 2. Retention time and the corresponding compounds in the white sample identified from the mass spectra.

Retention time (min)	Product identified
4.18	Dimethyl amino acetonitrile
4.64	2-Methoxypropanoic acid
5.95	Methanesulphonic acidate
6.78	Methoxy benzene
7.69	Hexahydro-1,3,5-trimethyl 1,3,5-Triazine
8.20	Succinic acid
8.49	Methyl succinic acid
8.89	Bezoic acid
8.96	Ethylidene malonic acid
9.2	Glutaric acid
9.95	Nonanoic acid
10.08	Hexanedioic acid
10.2	2,3-dihydroxypropy butanoic acid
10.72	8-Methyl nonanoic acid
10.85	Heptanedioic acid
10.97	2-Methoxy hexane-1,6-dioic acid
11.29	Propane-1,2,3-tricarboxylic acid
11.33	Butane-1,2,4-tricarboxylic acid
11.85	Phthalic acid
11.99	Terephthalic acid
12.05	Isophthalic acid
13.23	Tetradecanoic acid
13.74	1,2,3-Benzenetricarboxylic acid
13.77	Pentadecanoic acid
13.87	1,2,4-benzenetricarboxylic acid
13.2	Trimethoxybenzoic acid
13.22	Tetradecanoic acid
14.19	9-Hexadecenoic acid
14.29	Palmitic acid
15.14	10-Octadecenoic acid
15.25	Stearic acid
18.17	1-monolinoleoyl glycerol derivative