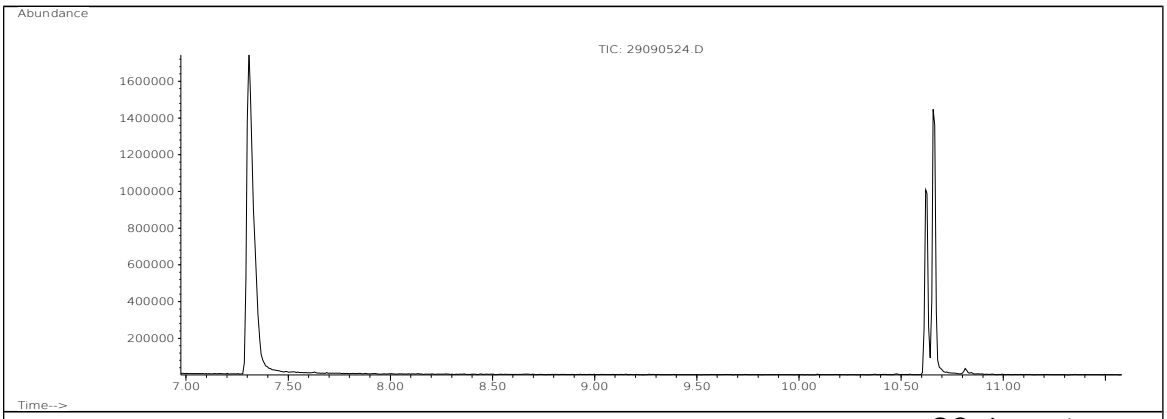
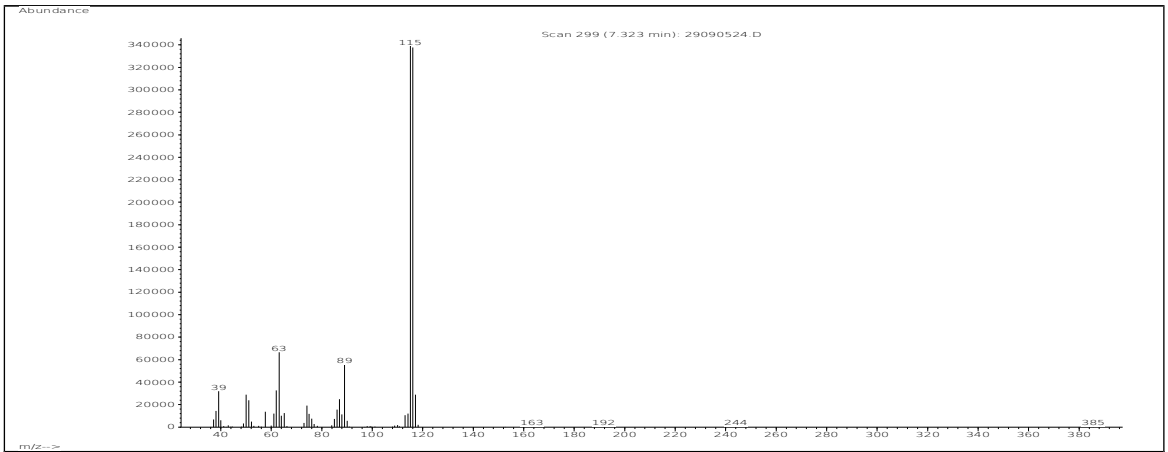
# JRC CRL – FCM
# Database / GC-MS

Sample Name: 1,4-Methano-1,4,4a,9a-tetrahydro-9H-fluorene
Solvent: Hexane
Concentration: 100 µg/mL

Date: 29/09/2005
CAS: 006143-33-5
PM ref: 21540 [U.R.N. M183]




GC chromatogram




MS spectrum

| m/z | Abundance | Ion Intensity % | m/z | Abundance | Ion Intensity % |
|---|---|---|---|---|---|
| 38.10 | 14440,0 | 4,17 | 74.10 | 19184,0 | 5,54 |
| 39.10 | 32080,0 | 9,27 | 86.00 | 15647,0 | 4,52 |
| 50.00 | 28960,0 | 8,37 | 87.00 | 24752,0 | 7,15 |
| 51.10 | 23992,0 | 6,93 | 89.00 | 55680,0 | 16,09 |
| 57.60 | 13677,0 | 3,95 | 115.10 | 345984,0 | 100,00 |
| 62.00 | 32688,0 | 9,45 | 116.00 | 337728,0 | 97,61 |
| 63.10 | 66672,0 | 19,27 | 117.10 | 28840,0 | 8,34 |
| 65.10 | 12581,0 | 3,64 | | | |

Spectrometer: HEWLETT PACKARD GC/MS 6890/5973
Inlet system: capillary GC/MS
Scan Range: 40-700 amu
Source temperature: 230 °C

Flow: 1.2 mL/min
Column: DB 17-HT (30 m x 0.25 mm x 0.15 µm)
Programme temperature: 40 °C (3 min); 20 °C/min (350 °C); 350 °C (20 min)

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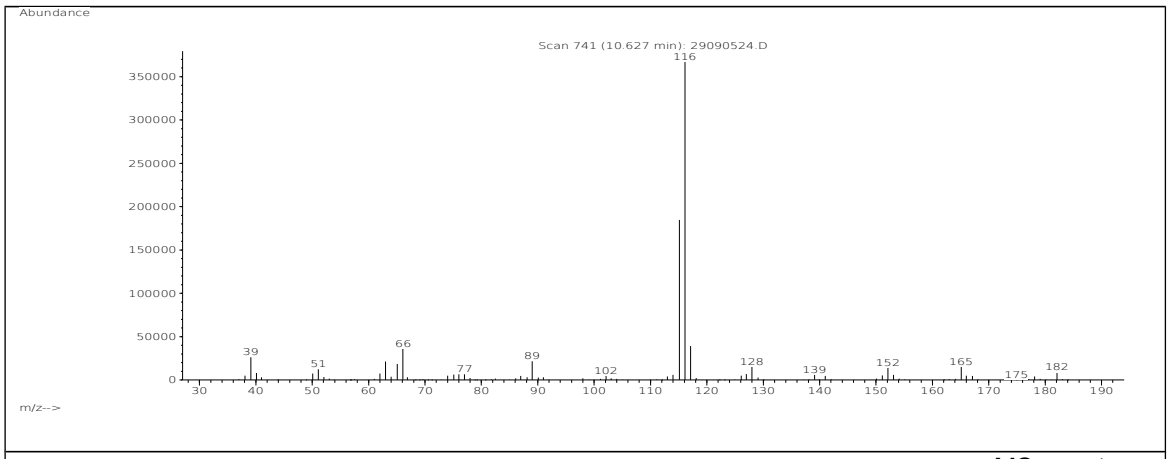


MS spectrum

| m/z | Abundance | Ion Intensity % | m/z | Abundance | Ion Intensity % |
|---|---|---|---|---|---|
| 39.10 | 33000,0 | 8,67 | 116.10 | 380672,0 | 100,00 |
| 40.10 | 10140,0 | 2,66 | 117.10 | 42928,0 | 11,28 |
| 51.10 | 15771,0 | 4,14 | 127.00 | 7921,0 | 2,08 |
| 63.10 | 22320,0 | 5,86 | 128.10 | 16274,0 | 4,28 |
| 65.00 | 22000,0 | 5,78 | 152.00 | 11474,0 | 3,01 |
| 66.10 | 40952,0 | 10,76 | 165.00 | 11981,0 | 3,15 |
| 89.00 | 23928,0 | 6,29 | 182.10 | 8566,0 | 2,25 |
| 115.00 | 181952,0 | 47,80 | | | |

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Scan Range: 40-700 amu
Source temperature: 230 °C

Flow: 1.2 mL/min
Column: DB 17-HT (30 m x 0.25 mm x 0.15 µm)
Programme temperature: 40 °C (3 min); 20 °C/min (350 °C); 350 °C (20 min)