

JEOL JMS-T100GCv AccuTOF-GCv4G Mass Spectrometer



The JEOL mass spectrometer is a High-Performance Gas Chromatograph Time-of-Flight Mass Spectrometer. It is interfaced with an Agilent 7890A Gas Chromatograph with auto sampler. It is equipped with an EI only source and an EI/FI combination source that is capable of field desorption. GCMS in EI mode a NIST library can be used to help identify chromatography peaks.

Samples can be introduced into the mass spectrometer by GC or by an insertion probe. Field ionization/field desorption is a soft ionization technique is ideal for determination of molecular mass of neutral molecules. FI/FD shows little or no fragmentation of the molecule especially with thermally liable neutral compounds. The FI mode can be used with the GC to determine the molecular ion of volatile samples that fragment easily in EI mode. The high resolution and high mass accuracy makes it possible measure exact mass and to determine elemental composition of a compound.

Specifications

Mass Accuracy	1.5 mDa or 4pm(r.m.s.)
Mass Resolution	R= 8000(m/z 617)
Sensitivity	S/N = 100(OFN 1pg)
Data Recording Speed	Up to 50 spectra/s
Mass Range	m/z 4 to 5000 Da

More Information

A work station using the Shader System software is available for stand-alone analysis of the data.

Links

- <http://www.jeolusa.com/PRODUCTS/MassSpectrometers/AccuTOF%E2%84%A2GCv4G/tabid/229/Default.aspx>