DRAWELL
Artist of Science

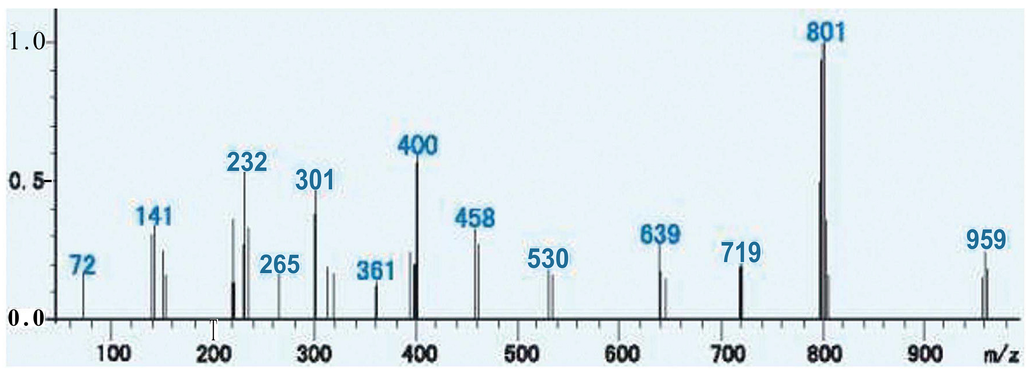
Gas Chromatograph Mass Spectrometer

DW-GCMS-II

DW-GCMS-II is a cost-effective gas chromatograph mass spectrometer provided by Drawell. The products hold several patented technologies, and are widely used in industrial inspection, food hygiene, environmental protection, etc.

Features

Brominated flame-retardant (BFR), volatile organic compounds (VOCs), polycyclic aromatic hydrocarbons (PAHs), phthalate, etc.



Features

- **Superior quality**
  it uses high-end core parts, which ensures DW-GCMS-II high quality.
- **Meeting high demands**
  provides necessity parts, and meets multiple requirements from different client.
- **User-friendly design**
  it facilitates easy operation and convenient maintenance.
- **High-efficiency ionization source**
  modularization design, having high ionization efficiency, and enhancing sensitivity.
- **ChemAnalyst software**
  convenient operation, data acquisition and processing.
- **Highly cost-effective**
  offering more benefits while meeting all application demands.
- **Scientific solutions**
  Drawell offer customers perfectly customized solutions.
- **Consumables with favorable price**
  most consumables and parts are self-developed, which save a lot of maintenance cost, while providing high performance.
- **Satisfactory post-sale service**
  Drawell make a quick response to client's demands, with professional technicians offering 24-hour services.

Highlights

Hardware

Electronic pressure/flow control system (EPC/EFC) for self-developed DW-GCMS- I I system

Patented El filament set provides highly efficient electron emission, a maximum of 350u A

Quality mass analyzer with pre-filter reduces quadrupole pollution

Fligh-energy dynode electron multiplier ensures good sensitivity

Vacuum system with quality mechanical and turbo molecular pumps guarantees stability and reliability

Full scale gauges monitor vacuum states in real time

Self protection system guarantees safety of operators and core parts under abnormal conditions

RF power supply digital compensation technology ensures better sensitivity and resolution in full mass range

- **Software**

The software "ChemAnalyst" controls auto sampler (AS), gas chromatograph (GC) and mass spectrometer (MS); data are acquired and transferred by high-speed network card

Full Scan and selective Ion Monitoring (SIM) modes are available

The system supports manual and automatic tuning, display of total ion current (TIC) and mass chromatogram (MC)

The data processing section searches target compounds in NIST 2011 based on mass spectra of samples, displays search results which include retention times, structural formula and standard mass spectra, and compares the abundances of standard and real target ions.

Users can make accurate qualitative and quantitative analyses

Parameters

GC Specifications	
Inlet temperature	**Max. 450°C**
Pressure range	**0~100psi,±0.002psi**
Pressure control mode	**Electronic pressure control (EPC), support CV and CC**
Split mode	**Split/splitless, max. split ratio: 1000:1**
Column oven working temperature	**Room temperature+4°C~450°C**
Heating rate	**Up to 120°C/min**
Temperature programming	**7 stages/ 8 platforms**
Auto Sampler	**Optional**
MS Specifications	
El source ionization energy	**5W ～250， V (Adjustable)**
Mass range	**1.5~1000amu**
Resolution	**Unit resolution (full width at half maximum)**
Ion source temperature	**100 ～3500**
Filament emission current	0-350 pA
GC-MS Interface temperature	**Max. 450°C**
Stability	**±0.10 amu/48 hrs**
Sensitivity	**Full scan, 1 pg OFN at m/z 272 with S/N ≥30:1 (RMS)**
Scan rate	**Up to lOOOamu/s**
Vacuum	**Turbo molecular pump(67L/s)**
Detector	**High energy dynode electron multiplier**