

Gas Chromatography System

Gas Chromatography with Flame Ionization Detector (GC-FID)



GC-FID is used in analytic chemistry for separating and analyzing compounds that can be vaporized without decomposition. The GC-FID can detect almost all carbon containing compounds.

Gas Chromatography Mass Spectrometer (GC-MS)

GCMS is an analytical method that combines the features of gas-chromatography and mass spectrometry to identify different substances within a test sample. The applications of GCMS include air pollutant analysis, environmental analysis and unknown sample identification.

The GCMS (Agilent 7890B/5977A) has a highly sensitive Extractor Ion Source for higher Signal-to-Noise (SNR) and low-femtogram Instrument Detection Limit (IDL). The system comprised of ChemStation Data Analysis software as well as the highly productive MassHunter Quantitative and Qualitative Analysis software in a single workstation. In addition, the system also comes with the MassWorks software that allowed the analysis to achieve high mass & spectral accuracy for identifying unknown compound with high-confidence with or without a compound library.



Besides the liquid sampling, this GCMS system also allows sampling of gas and slurry samples. Air or gas samples can be collected into a sorbent packed tube and introduced into the GCMS via Thermal Desorber (Markes TD-100). Headspace (HS) and thermal sorption probe (TSP) sampling are the other alternative methods which available on this system.

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