

**DEPARTMENT OF MEDICINAL CHEMISTRY
MASS SPECTROMETRY CENTER - INSTRUMENTATION**

**Shimadzu QP2010 Gas Chromatograph –
Quadrupole Mass Spectrometer (GC-QMS)**

Manufacturer: Shimadzu Scientific Instruments, (Columbia, MD)

Mass range: 1000 Dalton

Resolution: Unit mass

Ionization ($\pm eV$): Electron, Chemical Ionization (EI, CI & NCI)

Inlet Systems:

Gas Chromatograph (GC):

Shimadzu GC-2010

(Shimadzu Scientific Instruments, Columbia, MD)

Injectors: Capillary split-splitless

Sampling System:

Shimadzu AOC-20i Auto Injector

DI-2010 Direct Insertion Probe

(Shimadzu Scientific Instruments, Columbia, MD)

Data System (DS):

Hardware: MPC, Pentium 4, 3.2 GHz, 1GB RAM

Software: Microsoft Windows^{XP}, Shimadzu GCMS Solutions 2.40

Acquisition Date: 2005

Funding:

Mass Spectrometry Center Equipment Budget

Predominant Uses:

Automated quantitative metabolic profiling in drug metabolism and drug interaction studies and the qualitative analysis of synthetic and natural products.