

Nuclear Magnetic Resonance Facility

Location: Science and Technology Building,

Established: 2003

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Overview: The Department of Chemistry at East Carolina University is equipped with two nuclear magnetic resonance spectrometers: a Varian Unity 300 for routine ^1H and ^{13}C and two-dimensional experiments and a Varian Inova 500 for more advanced multi-dimensional liquid and solid state experiments.

Capabilities:

For the Inova 500 MHz Spectrometer

Variable temperature range -50 to 100 C depending probe

^1H - ^{13}C - ^{15}N z-gradient indirect probe

^1H -(^{15}N - ^{31}P), z-gradient indirect 4-mm nano MAS probe

^1H -X, CPMAS probe

^1H , X direct observe probe

For the Unity 300 MHz Spectrometer

Variable temperature range -50 to 100 C depending probe

^1H , X direct observe probe