

ELECTRON PARAMAGNETIC RESONANCE (EPR) SPECTROSCOPY

Make: BRUKER BIOSPIN, Germany

Model: EMX Plus Source: Microwave X Band

Operation mode:

Powder, liquid and crystal samples at RT and down to 100 K

Software: Bruker WIN EPR Acquisition, and Processing

Applications:

Physics : Susceptibility, semiconductors, Quantum dots, Defect centers

Chemistry : Free radicals formation, ET reaction kinetics, Organo metallic, catalysis, molecular magnets, electrochemical studies and spin labels

Biology : Enzyme reaction. ET reaction, folding & dynamics, metal centers, structural elucidation

Material research : Polymers, glasses, superconductors, corrosion, fullerenes, carbon dating

Medical research : In vivo free radical concentration and EPR imaging.

