

MASS SPECTROPHOTOMETRY (MS)

Photo of Instrument:



Instrument Name	Mass Spectrophotometry (MS)
Instrument Model & Serial No.	Clarus SQ8S
Instrument Make	Perkin Elmer
Category of Instrument	Characterization and Testing
Description of Instrument	Mass spectrometry is an analytical tool useful for measuring the mass-to-charge ratio (m/z) of one or more molecules present in a sample. These measurements can often be used to calculate the exact molecular weight of the sample components as well.
Instrument Technical Description and Major Specifications (This Specifications Limited to Major 5)	Scan Rate-Fully variable up to 12,500 amu/sec Mass Range-1.0-1,200 (amu) Turbomolecular pump capacity 75l/sec
Application of Instrument (Limited to Major 4 or 5)	It is an efficient method to elucidate the chemical composition of a sample or molecule. More

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	recently, it has been used to classify biological products, in particular proteins and protein complexes, in a number of species. Usually, mass spectrometers can be used to classify unknown substances by molecular weight measurement, to measure known compounds, and to determine the structure and chemical properties of molecules.
Type of Sample Required for Analysis / Testing (Quantity, Pre-Preparation, State etc.) Guidelines for Sample Submission – User Instructions	Aqueous sample
Types of Analysis / Testing	Volatile Organic compounds
Faculty In-Charge Name / Email / Contact	Dr.George K Varghese / gkv@nitc.ac.in / 9744341214 & Dr. Bhaskar S / bhaskars@nitc.ac.in / 9742720843
Technical Staff Name / Email / Contact	Amardip Kumar Vishvakarma amardeepvns786@gmail.com
Location of Instrument	Environmental Engineering Research lab
Other Details	

User Charges:

S.NO.	Type of Analysis / Testing	Internal - within Department of NITC	Internal - Other Departments NITC	External Academic Educational Institutes	National R&D Labs	Industry
1						
2						
3						

Slot Booking and Payment Work Flow: