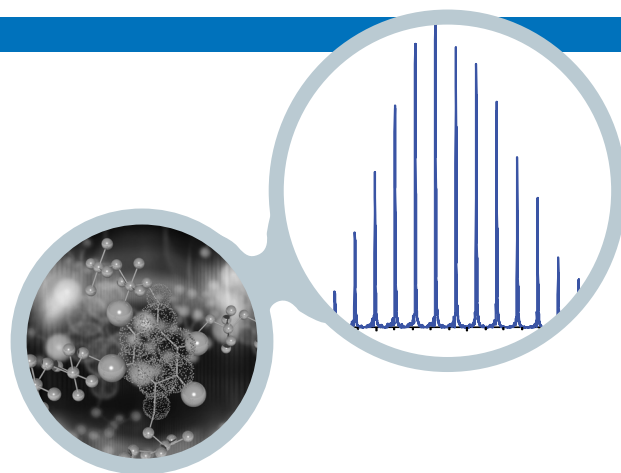


Achieve Record Breaking Results with a Unique 18 Tesla (18T) Magnet System for FTMS



The analytical power and performance of FTMS is well suited to address some of today's most challenging and complex samples. Higher magnetic fields improve all spectral figures of merit for FTMS. Bruker is unique in being able to offer the world's first 18T magnet for use in FTMS systems. This new magnet system represents the world's highest field FTMS magnet, providing record-breaking analytical capabilities that can be applied to some of today's most important, complex and challenging protein, polymer, and small molecule analyses.

Samples with higher levels of complexity will be analyzed with unmatched confidence and specificity. For instance, the routine observation and measurement of isotopic fine structure of molecules of interest will be facilitated to provide another unique dimension of specificity for the determination of exact molecular formulae.

Drawing on years of magnet design and production experience, we have developed an advanced magnet to provide unmatched analytical performance for:

- High End Proteomics Studies (Top-down and Bottom-up workflows)
- Molecular Imaging of Tissue - Distribution of Drugs, Metabolites, and Biomarkers
- Petroleum Product Analysis
- Complex Environmental Sample Analysis
- Metabolomics Research

The implementation of the 18T magnet with an FTMS system represents the ultimate in high end performance Mass Spectrometry - designed and developed for addressing today's most challenging and complex samples with unparalleled accuracy and confidence.



Technical Specifications:

- Guaranteed 18.0 T with a nominal room temperature horizontal bore of 110 mm
- Operation at ~2 Kelvin using the well-proven Ultrastabilized™ sub-cooling technology of Bruker's ultra-high field NMR magnets.
- Low-maintenance, R-series magnet with refrigerated cryostat with > 1-year hold time for liquid helium
- Magnet Drift of < 0.02 ppm/hr (6 weeks after magnet charge)
- Homogeneity: +/- 5 ppm over a 60 mm D by 60 mm L cylinder.
- +/- 2 ppm over a 30 mm D by 60 mm L cylinder.
- Length of magnet is 1.75 m. Magnet is asymmetric with minimum distance from magnet face (outermost surface of magnet, shim tube mount) to magnetic field center of 655 mm (+/- 10 mm).
- 50 G stray field at a maximum distance from magnet center of ~2.3 m axially
- 50 G stray field at a maximum distance from magnet center of ~1.5 m radial



The 18 T Magnet system for FTMS is available for installation.

For more technical or sales information regarding the system, please contact:

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