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Innovations in MRMS - from feasibility to ease-of-use

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Since the invention of FT-ICRMS 1973 by Comisarow and Marshall, many innovations have been implemented in home built and commercial FT-ICR instrumentation and made available to researchers. With the change of user profile, moving from fundamental expert research to routine applications, more focus is on ease of use, often enabled by technology advances like Maxwell magnet technology and XR and 2xR detection and optimization methods. While these are now routinely available in commercial products like scimaX MRMS, innovation continues with e. g. merging trapped ion mobility spectrometry (TIMS) with Magnetic Resonance Mass Spectrometry (MRMS) or increased magnetic field strength of 18T.

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