Agilent 6560 Ion Mobility Q-TOF Specifications

Data Sheet

Ion Mobility Q-TOF Mode Specifications

Parameter	Measure	Specification
Sensitivity, MS mode, electrospray on-column, 200 µL/min flow rate, max sensitivity mode	200 fg LC/MS injection of reserpine. Signal-to-noise (S/N) for the reserpine $(M+H)^+$ at 609.2807 *m/z*	20 % RSD
Drift resolution	Single charged compound Triple charged peptide	Greater than 50 Greater than 75
Collisional cross section accuracy, MS mode	Measured without external standards	< 2 %

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Q-TOF Mode Specifications

Parameter	Measure	Specification
Sensitivity, MS mode, electrospray on-column, 400 µL/min flow rate, and max sensitivity mode	1 pg LC/MS injection of reserpine. S/N for the reserpine $(M+H)^+$ at 609.2807 *m/z*	100:1 RMS
Sensitivity, MS/MS mode, electrospray on-column, 400 µL/min flow rate, and max sensitivity mode	1 pg LC/MS injection of reserpine. S/N for most intense product ions (174, 195,397,448 *m/z*)	350:1 RMS
Mass resolving power	Measured at 322 *m/z* after automatic tuning procedure Measured at 2,722 *m/z* after automatic tuning procedure	> 42,000 at 2,722 *m/z*
Mass accuracy – MS mode, electrospray on-column, 400 µL/min	Measured at the $(M+H)^+$ ion of reserpine (609.2807 *m/z*) using an internal mass reference	< 1 ppm RMS
Mass accuracy – MS/MS mode, electrospray on-column, 400 µL/min	Product ion 397 *m/z* for reserpine	< 2 ppm RMS
Dynamic range	Intrascan dynamic range on coeluting components	10^5
Mass range		100–10,000 *m/z* extended mass range, 50–1,700 or 100–3,200 *m/z* for both high resolution and extended dynamic range modes, quadrupole up to 4,000 *m/z*
Spectral acquisition rate, MS mode	50 to 1,700 *m/z* in MS mode while maintaining a resolution of 40,000 at 1,522 *m/z* in 4 GHZ mode	50 spectra/second
Spectral acquisition rate, MS/MS mode	50 to 1,700 *m/z* in MS/MS mode while maintaining a resolution of 40,000 at 1,522 *m/z* in 4 GHZ mode	30 MS/MS spectra/second

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