



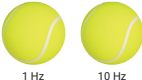
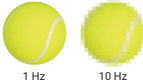



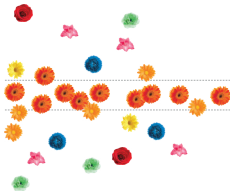




## Agilent Q-TOF instruments

# Find Answers Beyond the Peak Shape

To stay ahead of your analytical challenges, you need an instrument with many strengths. Unlike orbital ion traps that emphasize mass resolution and mass accuracy capabilities, Agilent Q-TOF combines uncompromised in-spectra detection with high dynamic range and fast analysis.

### Six ways that Agilent Q-TOF technology delivers better spectral quality than orbital ion traps

	Agilent Q-TOF	Ion trap
1 Wider dynamic range	5 orders of dynamic range for maximum detection 	3.5 orders of dynamic range misses low abundant peaks 
2 More compounds quantified	Unlimited ions can enter the MS 	Too many ions in the MS = resolution loss and peak interferences 
3 Better resolution consistency	Resolution is independent of acquisition rate 	The faster your acquisition rate, the faster your resolution drops 
4 Fewer required samples	Better ion statistics + more peak data points = higher-quality data 	Many replicates are needed to achieve the same power of analysis that TOF instruments deliver routinely 
5 Less isotope confusion	Isotope fidelity helps you rule different isotopes in or out 	Insufficient ion statistics and dynamic range mean that you have to identify compounds by mass alone 
6 Greater productivity	Independent of speed, so you can run more experiments in less time 	Speed is the fundamental enemy of ion trap resolution 

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Take a deeper dive into the Agilent Q-TOF difference, download our eBook.

[www.agilent.com/chem/escape-the-trap](http://www.agilent.com/chem/escape-the-trap)