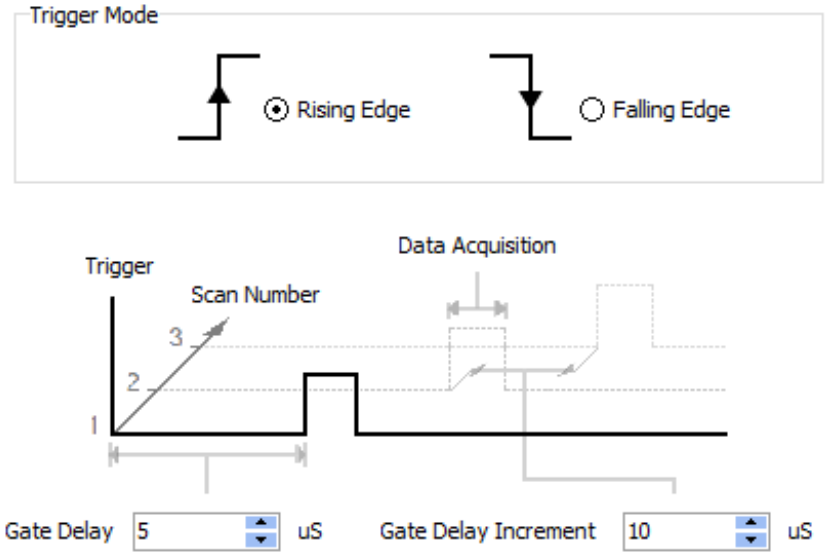
Programmable Signal Gating

- Signal gating input with 0.1 µs resolution is standard.
- Enhanced signal gating modes including programmable signal gating and MCS are available as system options or upgrades.
- Programmable signal gating includes foreground and background delay timers to monitor two time zones with respect to a relative repeated event.
- Typical data acquisition time for 300 Hz plasma, 10 % duty cycle, monitoring 10 masses ~20 minutes.

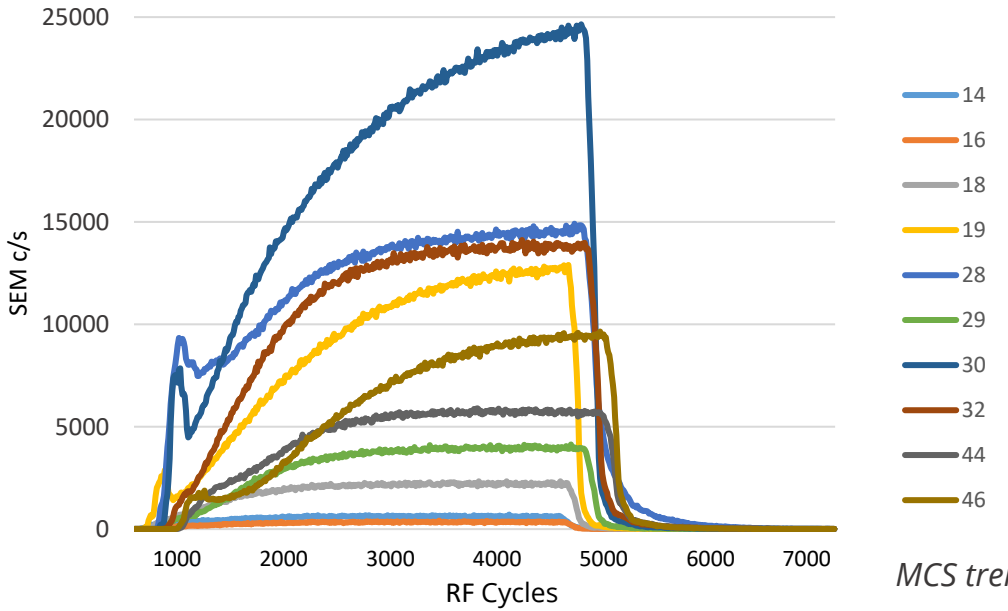
Features:

- 0.1 µs minimum gate delay and width.
- Automatic background subtraction for modulated molecular beam studies.
- Ion flight time measurements.



Multi-Channel Scalar (MCS) Device

- Optional innovative Multi-Channel Scalar (MCS) device integrated into controller firmware and MASsoft Professional software.
- 6000-bin multichannel scalar resolution offering 50 ns time resolution.
- Data is intuitive to obtain and can be manipulated in external programmes such as Excel and Origin.
- Typical data acquisition time ~5 minutes for ~25 000 data points.



MCS trend analysis of 9 plasma ions over ~5000 RF cycles at 13.56 MHz

Suitable for transient event analysis applications such as:

- Beam chopper inlets.
- Ion flight time measurements.
- Laser stimulated desorption.