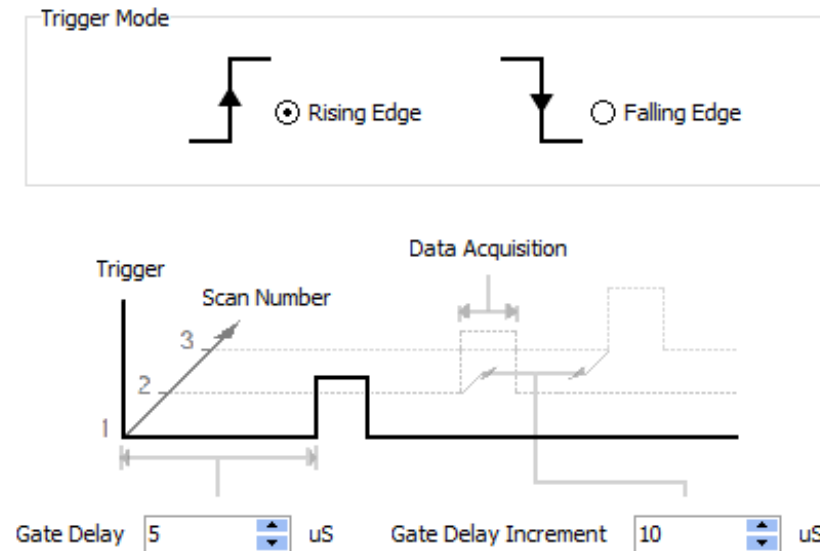


Programmable Signal Gating

- Signal gating input with **0.1 μ s** 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**.

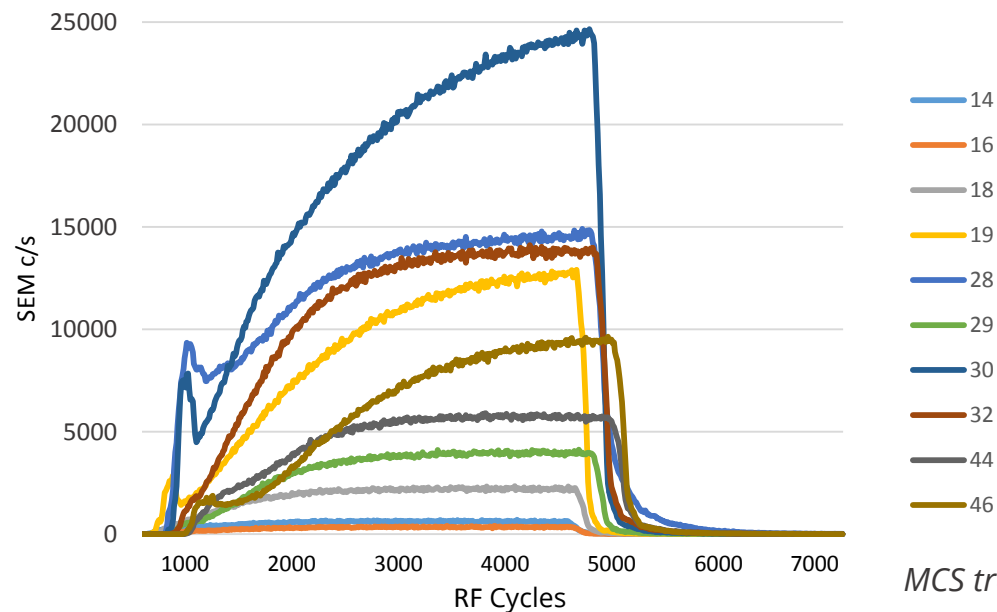
Features:

- **0.1 μ s** 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 v7 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**.



Suitable for transient event analysis applications such as:

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

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