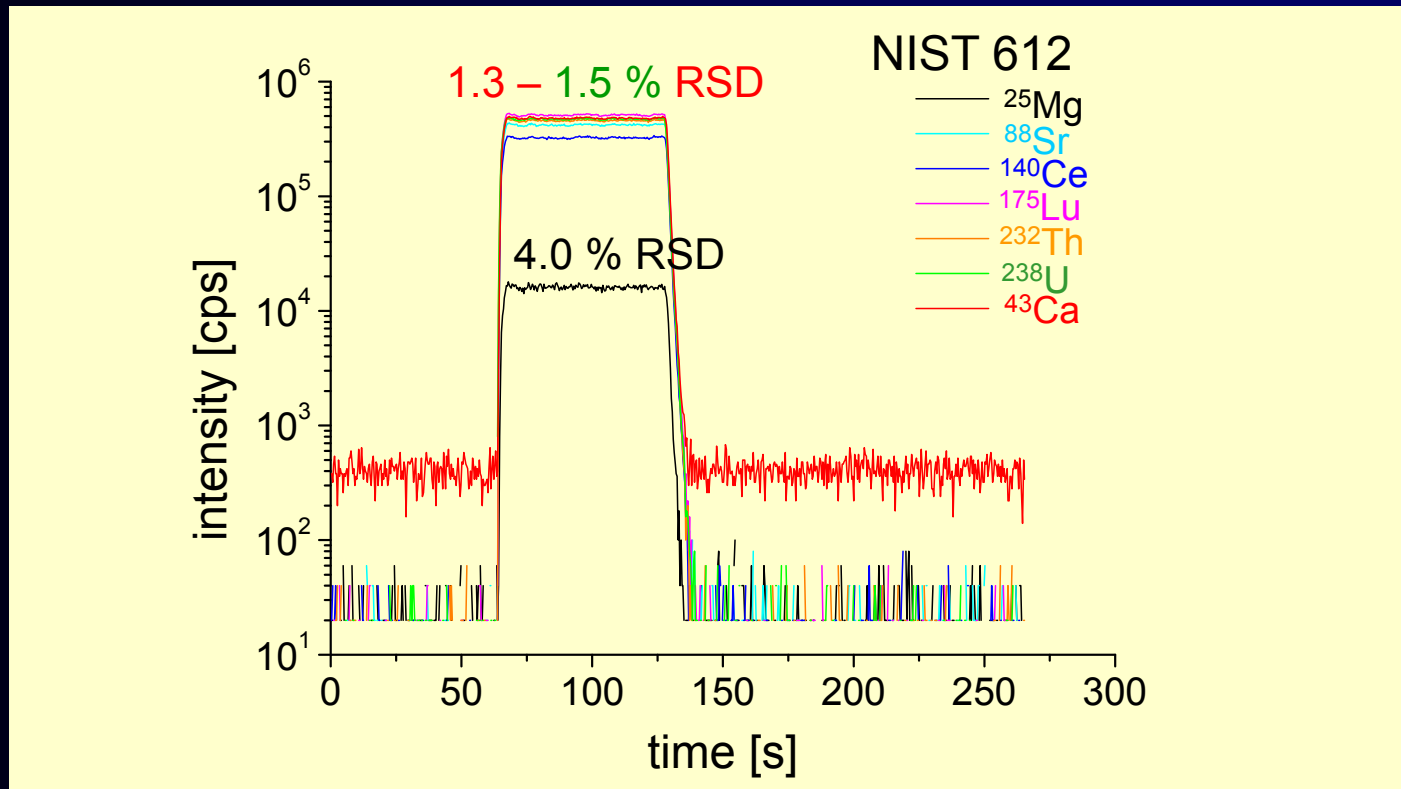


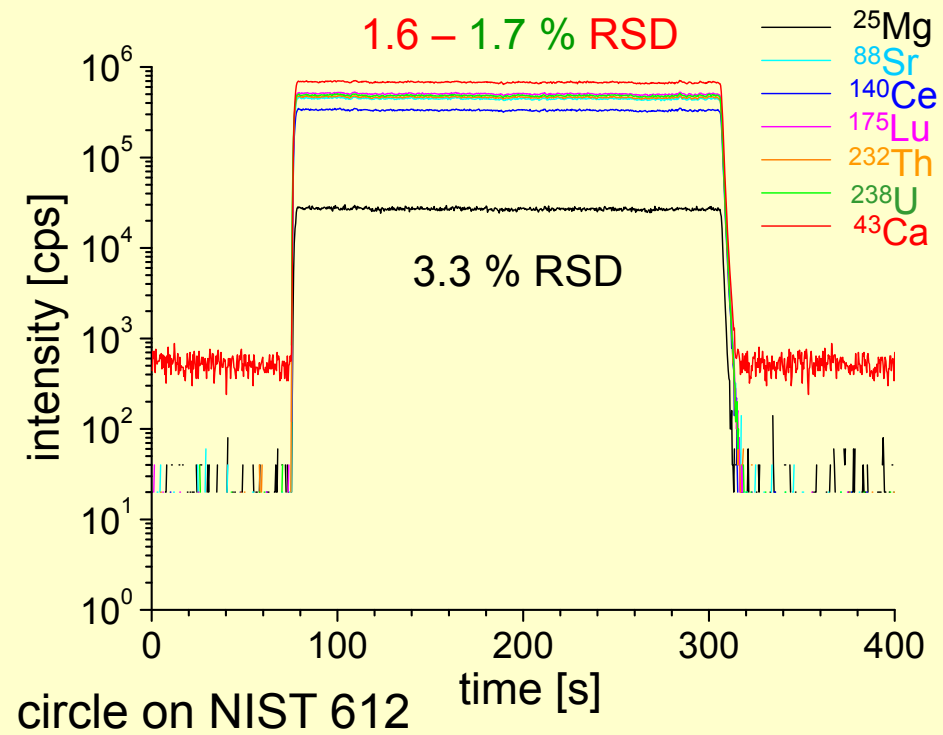
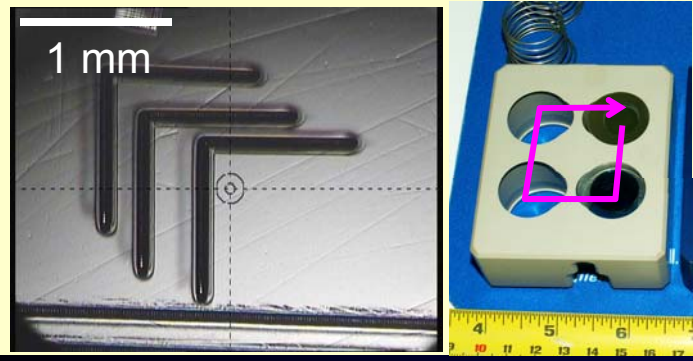
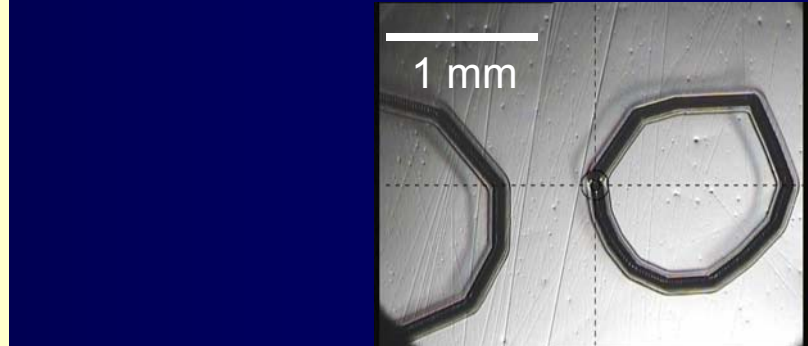
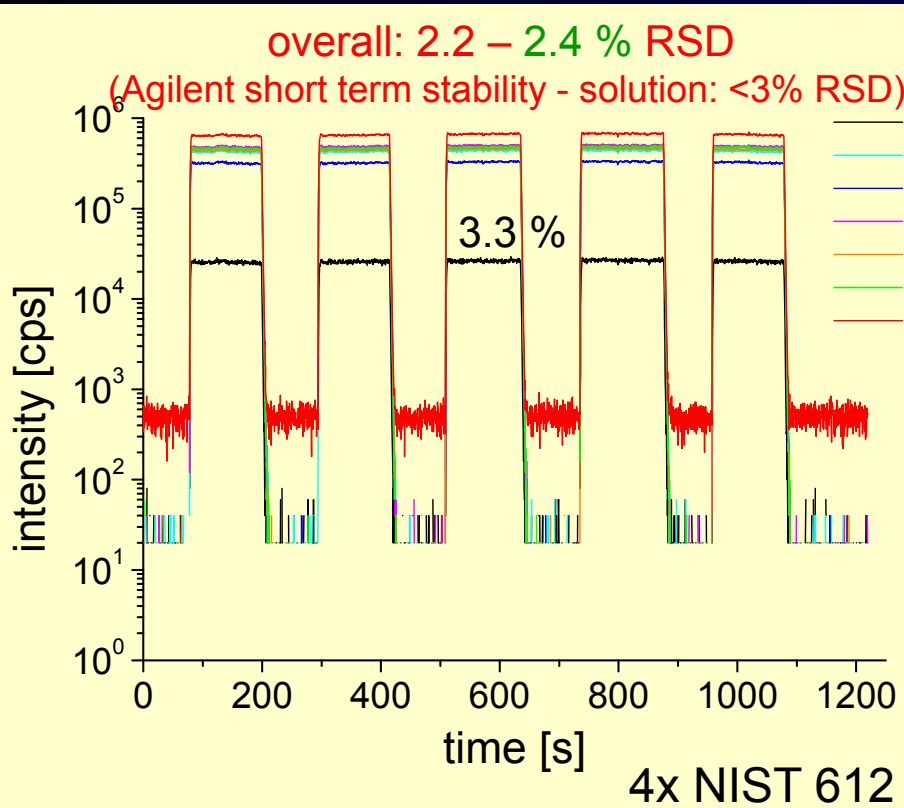
# Laser-ablation cell – data



193 nm excimer (20 ns) **RHUL**  
'Laurin' two-vol. LA cell,  $\sim 2 \text{ cm}^3 / 380 \text{ cm}^3$   
74  $\mu\text{m}$ , 10 Hz, (-> x4 higher signal)  
He (850 ml/min), 4 J/cm<sup>2</sup>  
Agilent 7500ce  
ThO<sup>+</sup>/Th<sup>+</sup> < 0.5%

# Laurin cell – signal uniformity

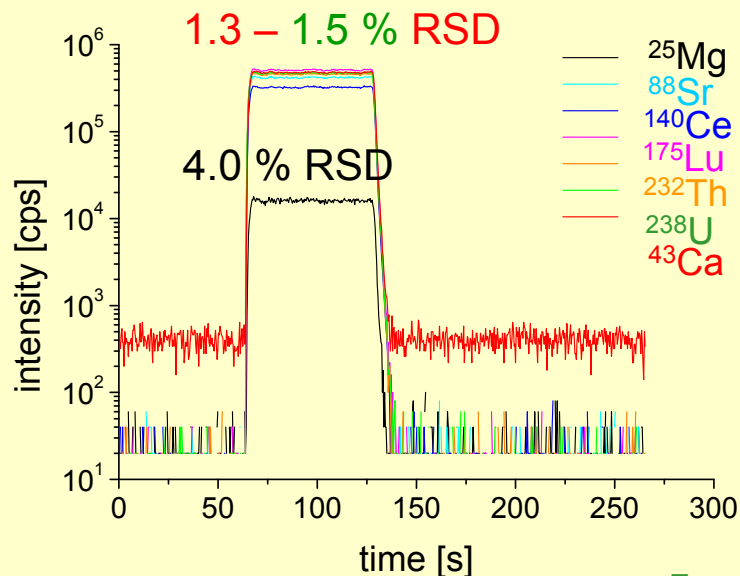
193 nm excimer **RHUL**  
74  $\mu\text{m}$ , 10 Hz, He, 4 J/cm<sup>2</sup>,  
1mm/min, ThO<sup>+</sup>/Th<sup>+</sup> < 0.5%;  
Agilent 7500ce, 50 ms dwell



# Laurin cell – washout

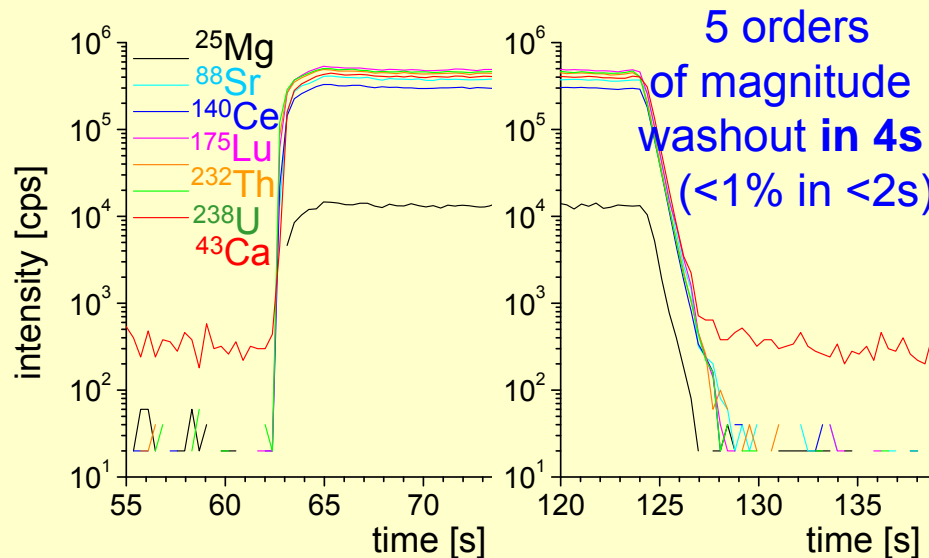
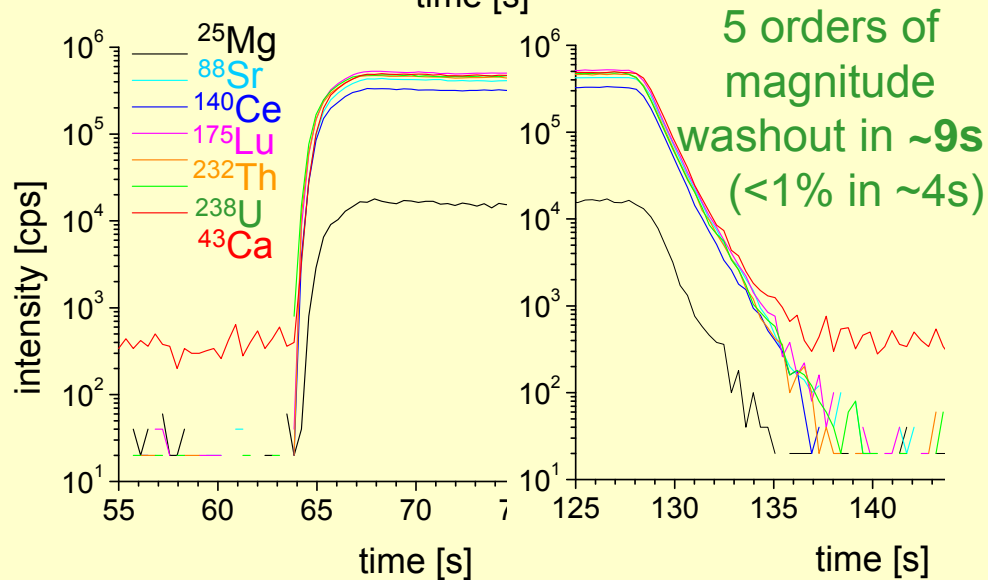
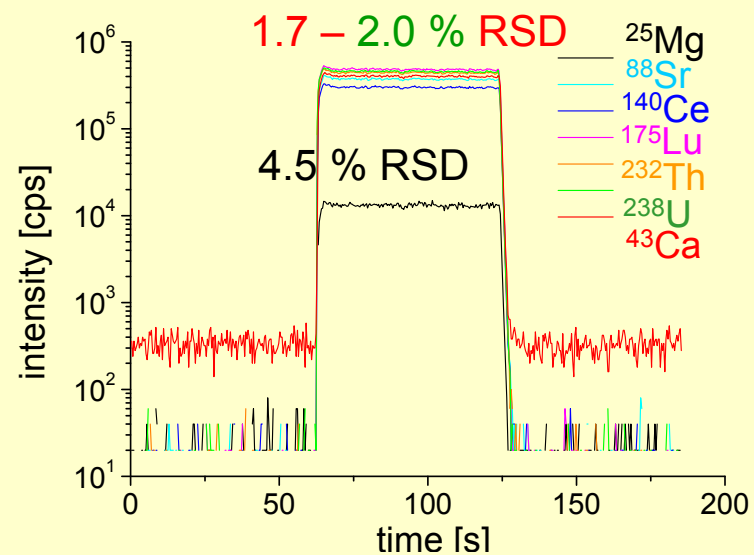
193 nm excimer + 7500ce  
74  $\mu\text{m}$ , 10 Hz, He, 4 J/cm<sup>2</sup>, 1mm/min

With 'squid' smoothing



NIST 612

No 'squid' smoothing



# Laurin cell – signal smoothing

With 'squid' smoothing

NIST 612

No 'squid' smoothing

