Precursor charge state distribution 0.4 50 0.4 -47.1 100 -0.2 0.3 75 charge z=1 Fraction (percentage) 45.6 z=2 43.3 42.2 z=3 41.4 40.5 50 39.4 39.2 38.6 z=4 z=5 z=6 z=7 25 12.1 10.9 -10.7 9.9 9.9 8.8 8.7 8.3 1.4 1.7 \_\_\_ 0.1 -Cal33-3 <sup>-</sup> Cal33-2 Cal33-4 HSC6-4 Cal33-1 HSC6-3 Experiment