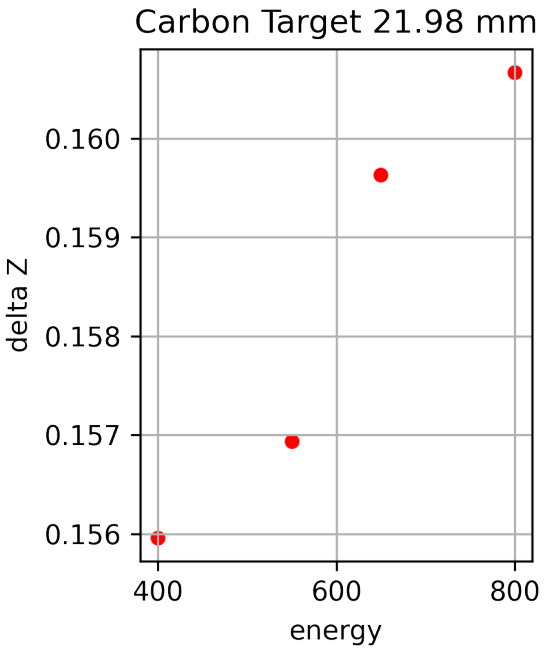
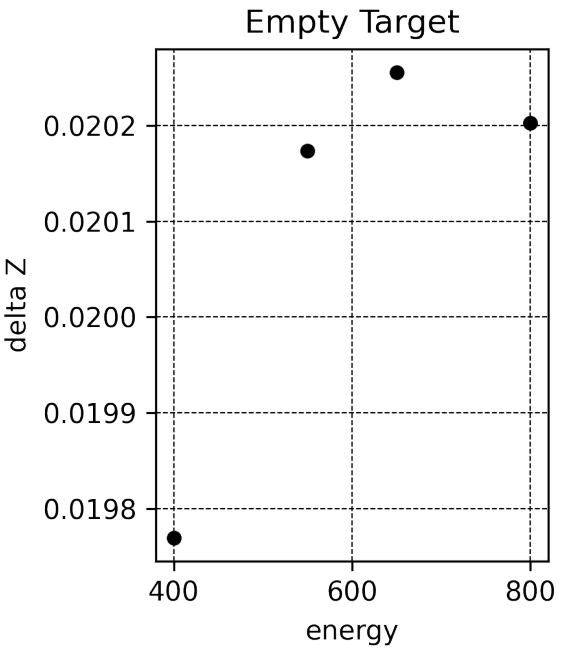
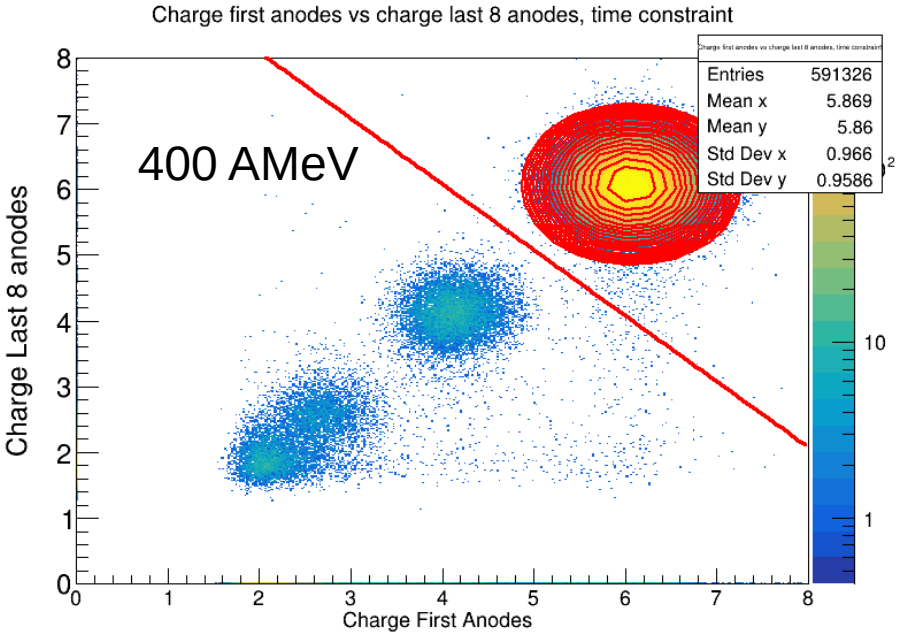
S444 numbers overview

Target Type	RUN ID	Energy	incoming ions	ΔZ/incoming ions	isotope correction	geom. Correction
c_2198	0183_0001	400	657424	0.15596	0.987003	1.00342
c_2198	0103_0001	550	437311	0.156934	0.984956	1.00191
c_2198	0130_0001	650	531690	0.159631	0.984957	1.00065
c_2198	0170_0001	800	480539	0.16067	0.987686	1.00069
empty	0187_0001	400	575624	0.0197698	0.99786	1.00065
empty	0096_0001	550	454455	0.0201736	0.996711	1.00022
empty	0124_0001	650	523267	0.0202554	0.996933	1.0001
empty	0173_0001	800	396093	0.0202023	0.997637	1.00012

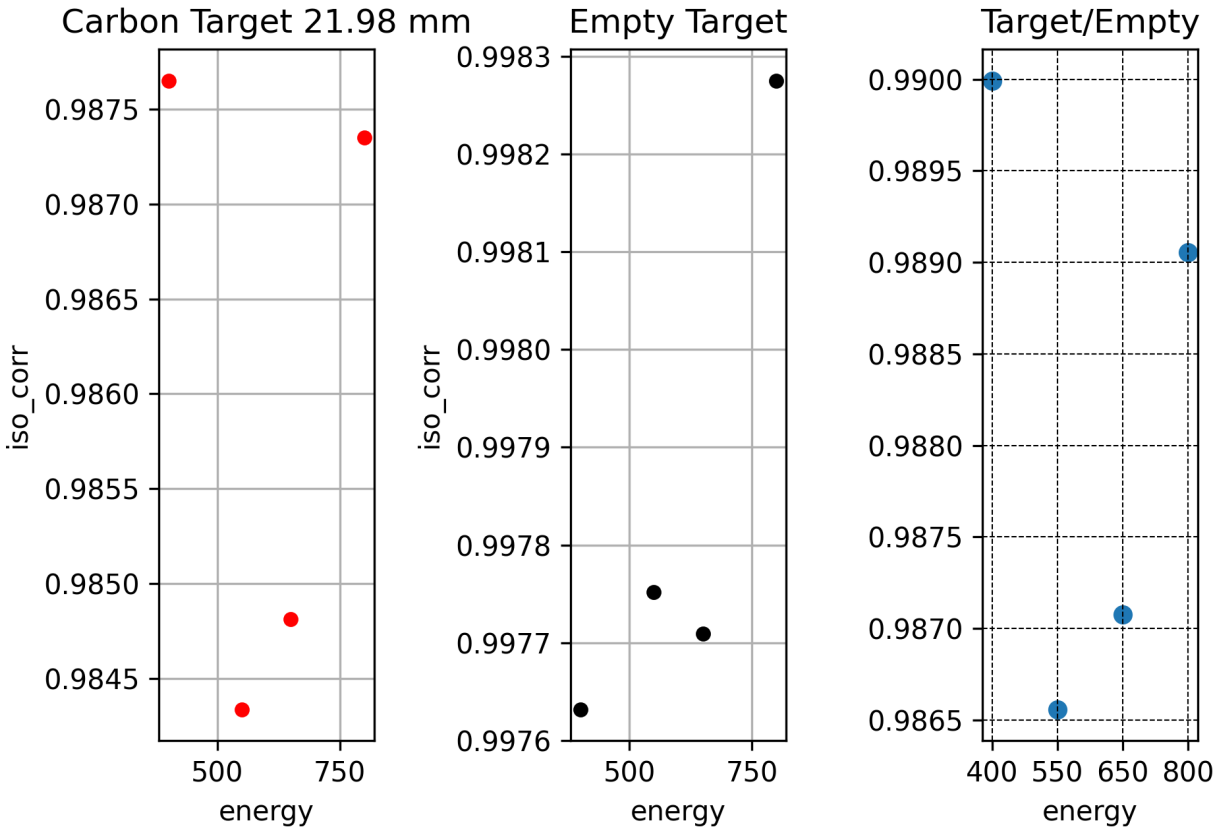
Δ Z / incoming ions

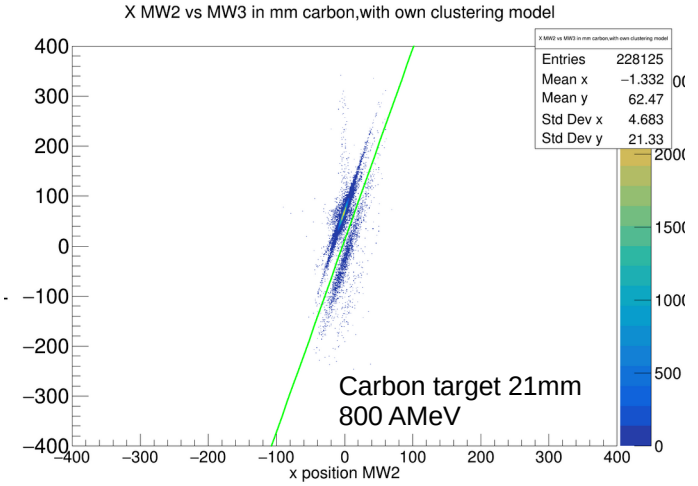


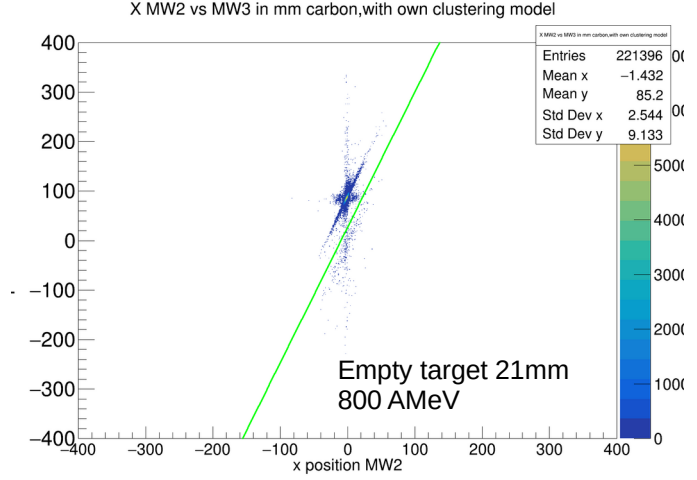




Isotopic Correction 12C/11C/10C

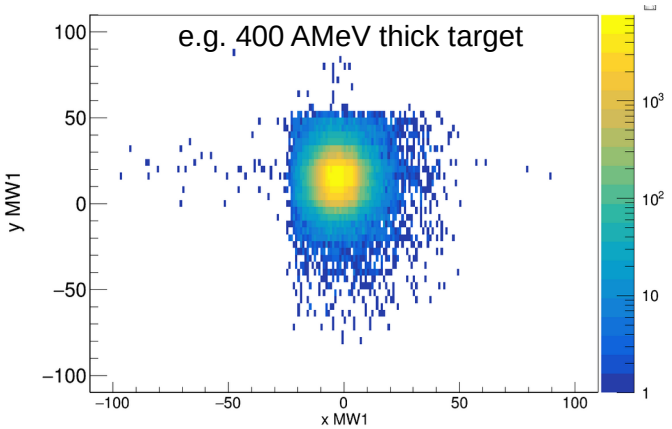


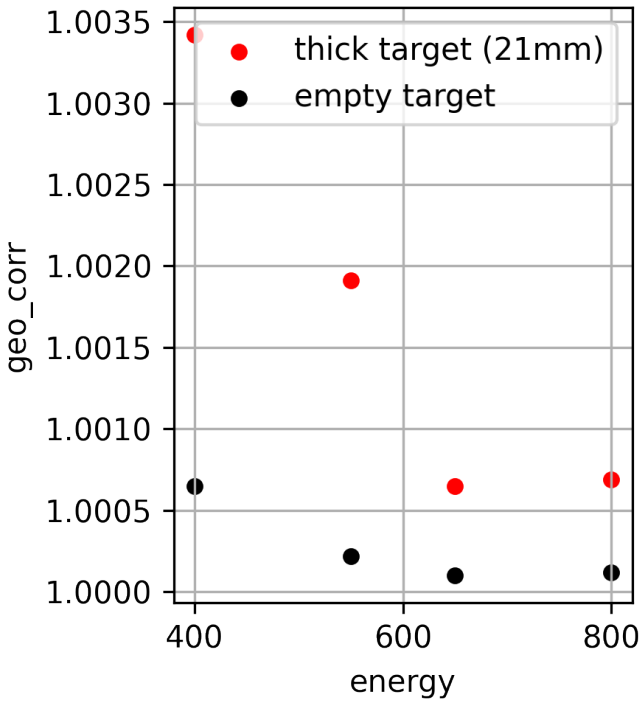


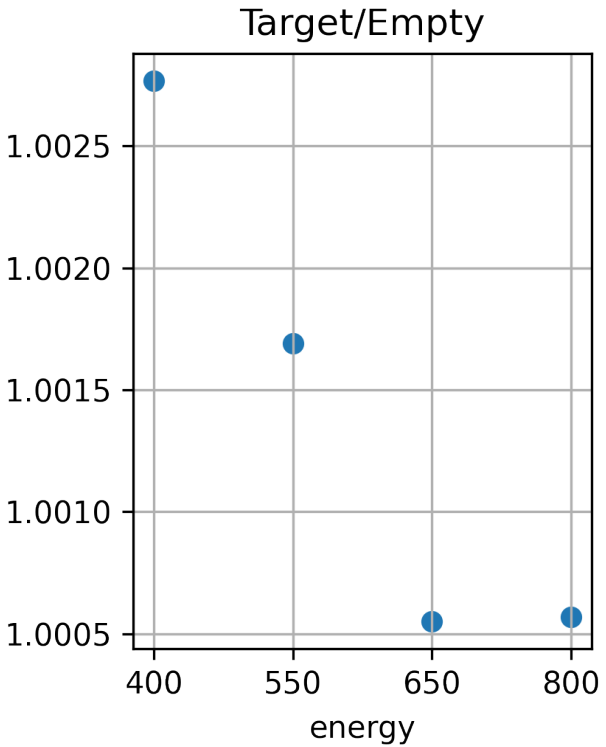


Something is off, value should slightly decrease over energy

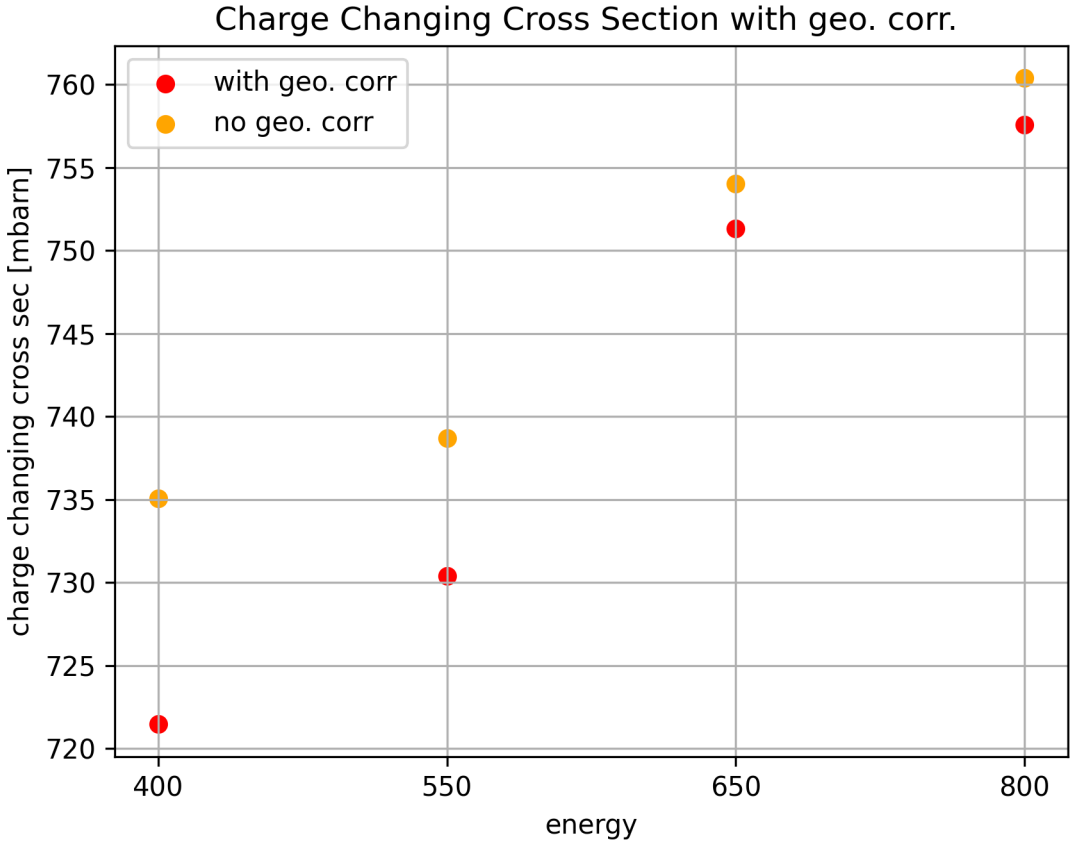
Geometric correction:







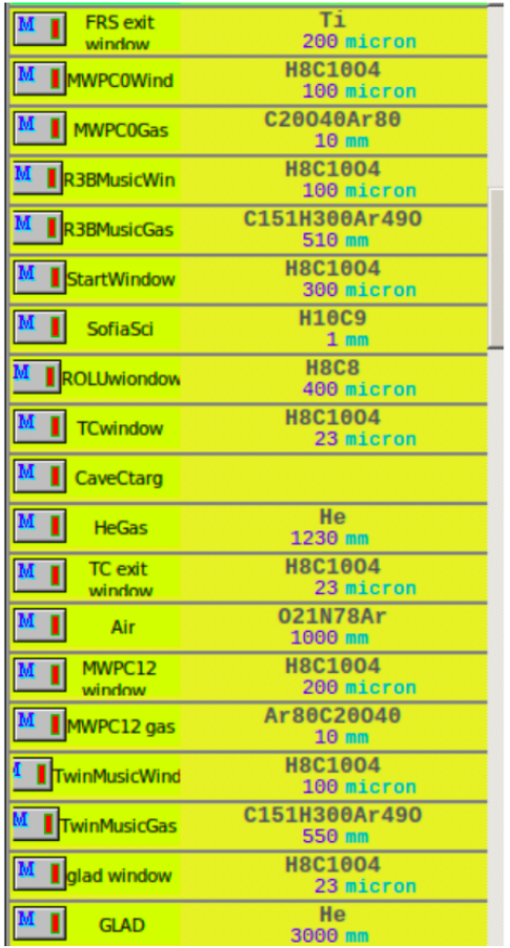
Geometric Correction has to be already applied to charge changing cross section!



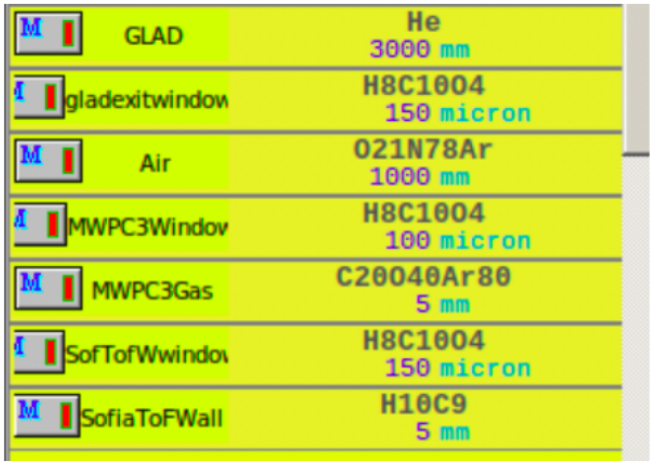
This looks good, shape and curvature what we would expect

Material Budget in beamline

beam



List of the setup materials as set in LISE calculations.



These are the numbers from the subsequent experiment S467. Should be same as for the S444 experiment