Dear Tayfun,
we (Riccardo and me) did something really simple.
we did not change the lookup table.
We let it as it was in the package and did all transformations afterward.
Otherwise it will get very confuseing.
Using the prespec package from Michael we printed out the psa data (taking care of the 1.3cm shift measured from Plamen).
then apply a simple rotation (in positive direction - please try out both directions to rotate- using rotation matrixes it is easy to rotate in the wrong direction using different refernce systems,
then take the direction that produces better results, try 7 to 8 degrees (visual estimation with basic tools on a paper plotout measured)   in the x,y plane (agata coordinates) and target z-shift of the few mm (Riccardo please correct me if it is wrong).
Finaly we gave the coordinates to the mgt code directly (doing additionally the x,y target coordinate shift to correct the source position).
And this worked much better than we did until now.

please try

cheers
Oliver