MUST2 DSSD Energy Calibration Report

1 Calibration Summary

Experiment : MUGAST$_{L}ISE23ValerianandHugo$
Operator App. Date : 16/02/23
Source : 3 alpha peaks ^{239}Pu, ^{241}Am, ^{244}Cm
Dead Layer : Al 0.3μm + Si 0μm
Comment : MUST2

Calibration Method : ZeroExtrapolation
Telescope Treated : 1
Strip Treated : 1 to 128
DSSD Side : Y

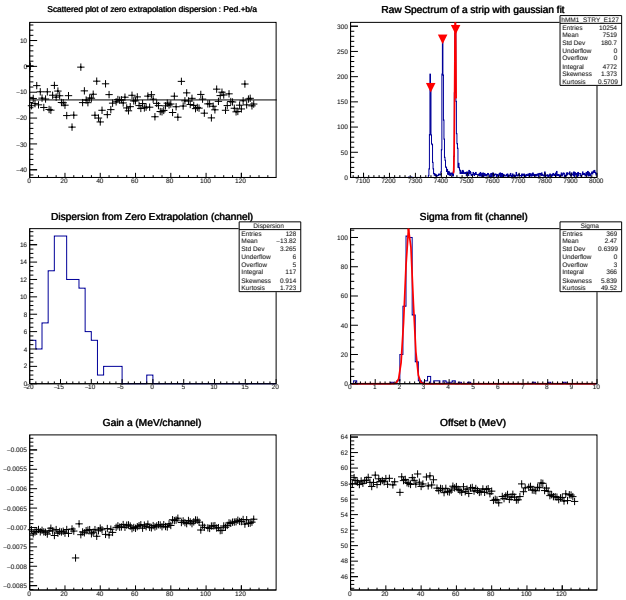
Source Description :

Isotope	Original Energy (MeV)	Branching Ratio
^{239}Pu	5.15659	70.77
^{239}Pu	5.14438	17.11
^{239}Pu	5.1055	11.94
^{241}Am	5.48556	84.8
^{241}Am	5.4428	13.1
^{241}Am	5.388	1.66
^{244}Cm	5.80477	76.4
^{244}Cm	5.76264	23.6

2 Telescope 1

Bad Strip :

Strip Number	Problem
23	zero extrapolation too high :-901.299channels ;
26	zero extrapolation too high :-206.16channels ;
27	2 peak(s) found ; zero extrapolation too high :8181.16channels ;
28	zero extrapolation too high :-41.8741channels ;
42	zero extrapolation too high :-709.048channels ;
48	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
85	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
100	0 peak(s) found ; zero extrapolation too high :8181.16channels ;
128	0 peak(s) found ; zero extrapolation too high :8181.16channels ;



Sigma fit centroid : 2.36769
Sigma fit sigma : 0.15862