

[31] Ahmed, Y. A. (2003). Parameter measurement, efficiency calibration and quality assurance for a

vertical GEM-30195 coaxial HPGe detector. Nigerian Journal of Physics Vol. 24

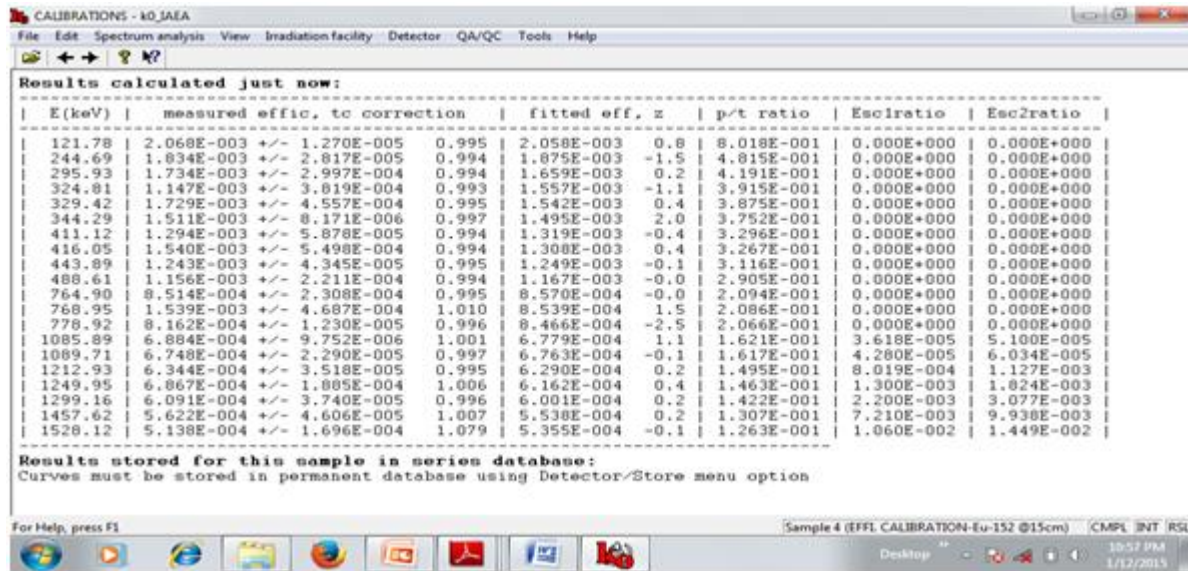


Figure 12: Efficiency calibration datapoints for GEM 30195 at 15 cm source-detector geometry

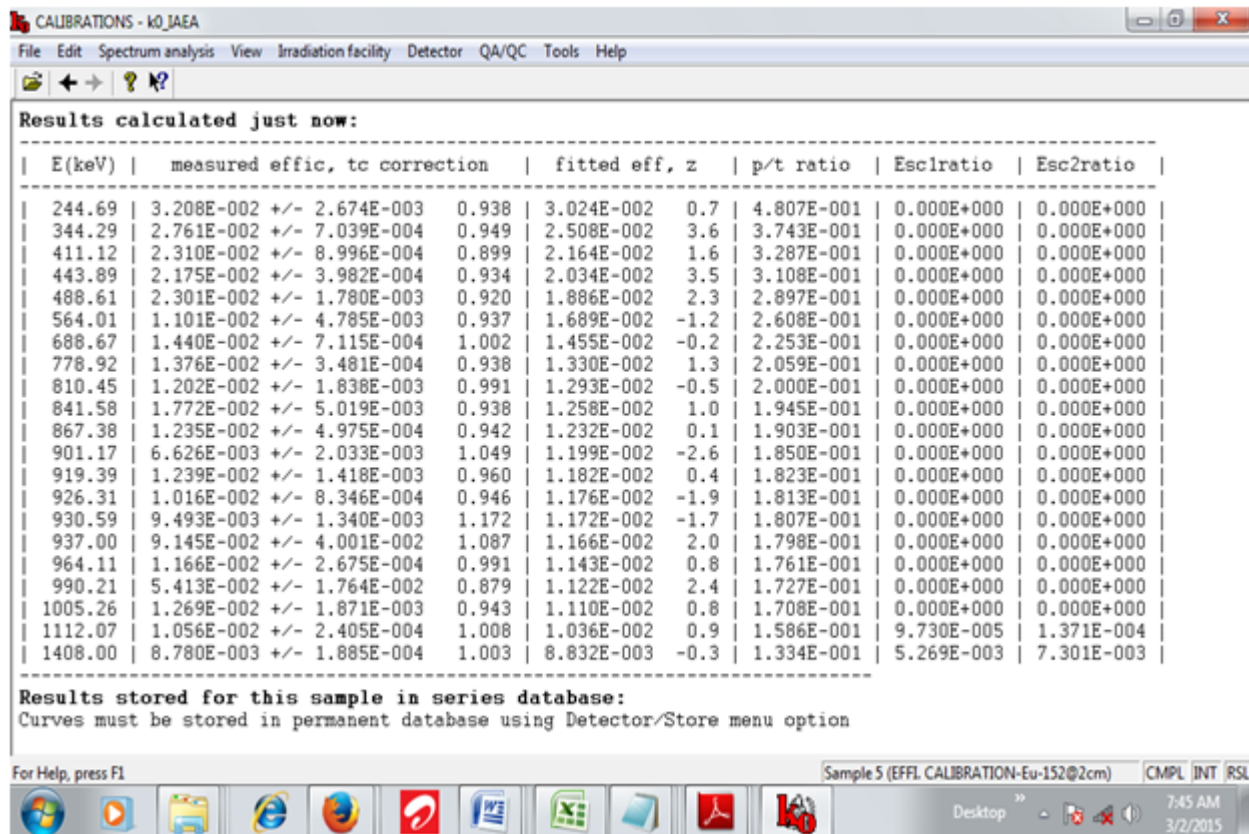


Figure 13: Efficiency calibration datapoints for GEM 30195 at 2 cm source – detector geometry

Table 1: Description of the samples used for the calibration of gamma-ray spectrometer

Sample ID	Sample type	Activity (kBq)	Packaging Date	Counting Date	T _{begin} (s)	T _{cool} (s)	T _{live} (s)	T _{real} (s)	Geometry
Cs-137	Source	36.9	15/07/2004	30/07/2014	16:00:00	314380800	3600	3632.86	15 cm
Eu-152	Source	38.0	15/07/2004	30/07/2014	17:02:00	314384520	3600	3639.06	15 cm
Eu-152	Source	38.0	15/07/2004	31/07/2014	13:32:00	314458320	3600	3956.68	2 cm