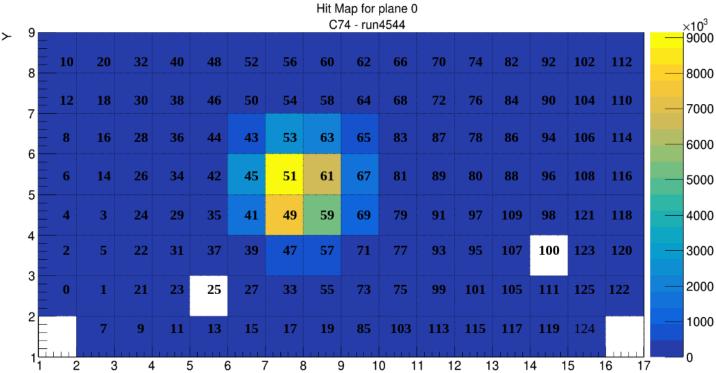
TB22 data analysis Homogeneity study for Si and GaAs sensors

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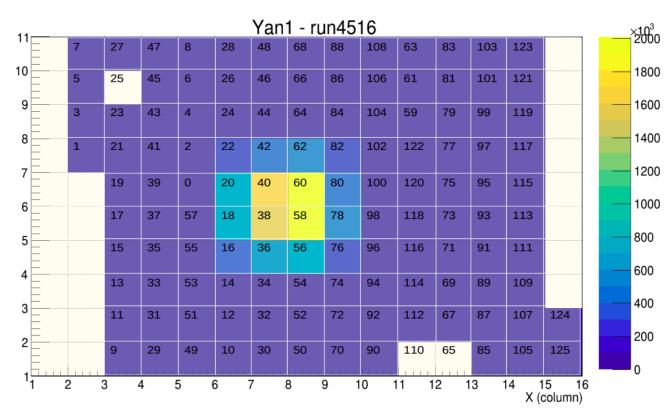


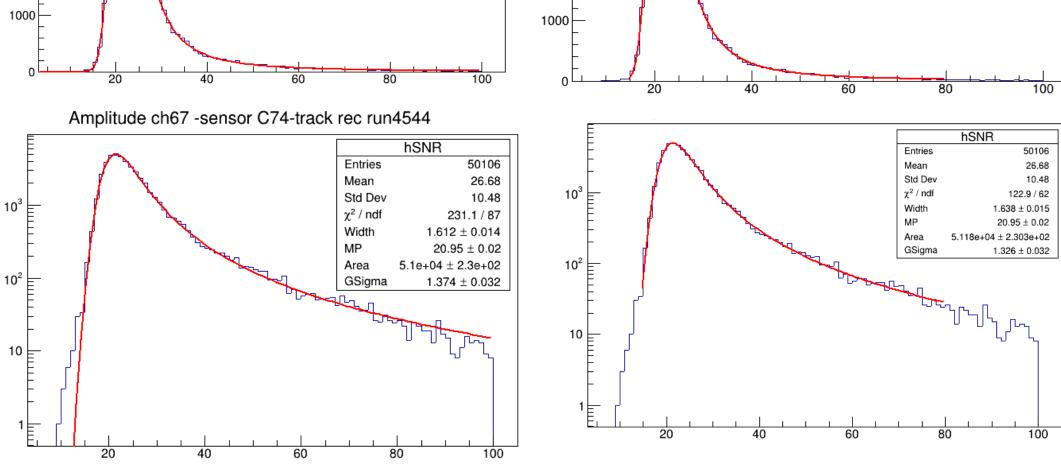
For Si sensors, the pad number is redefined as follows:

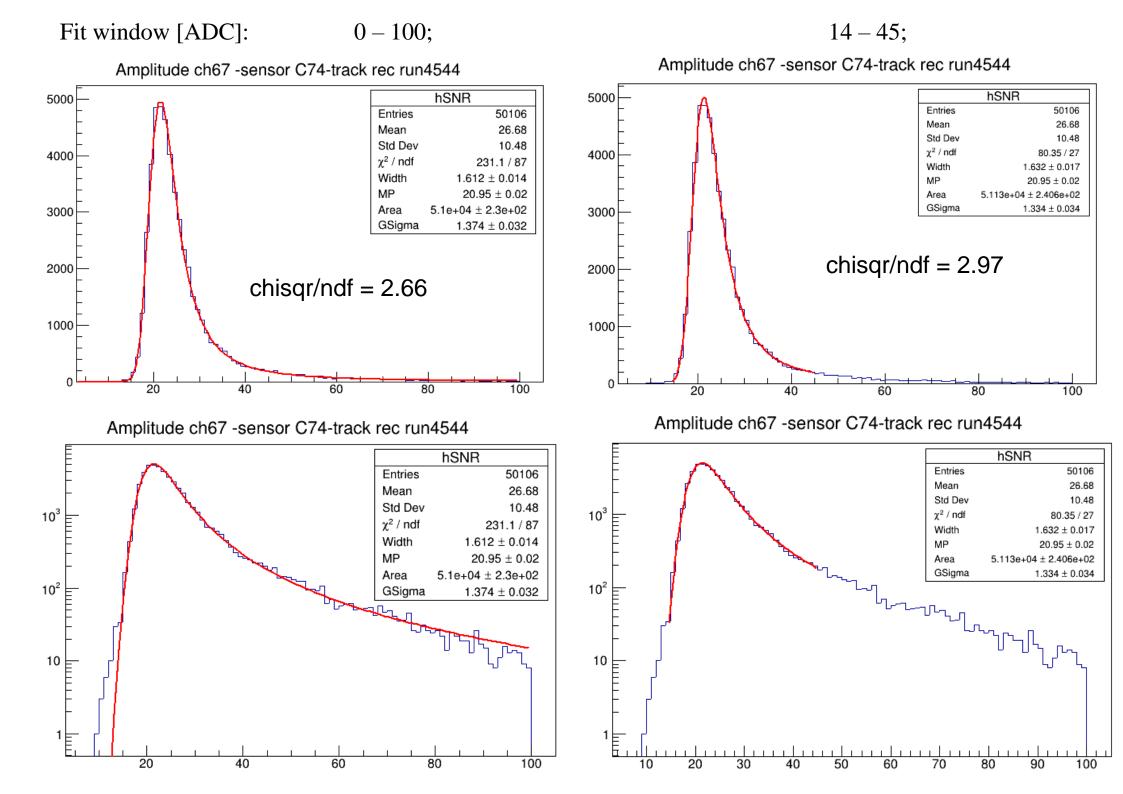
$$X+16x(Y-1)$$

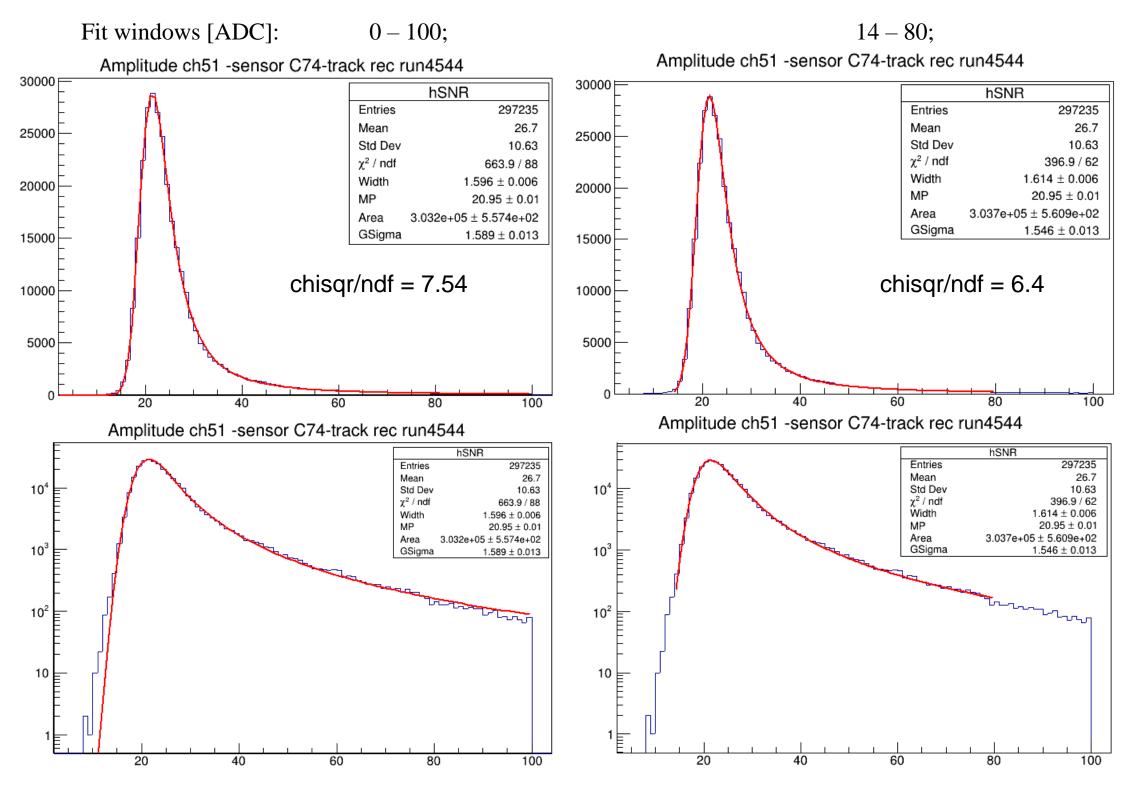
For GaAs sensors, the pad number is redefined as follows:

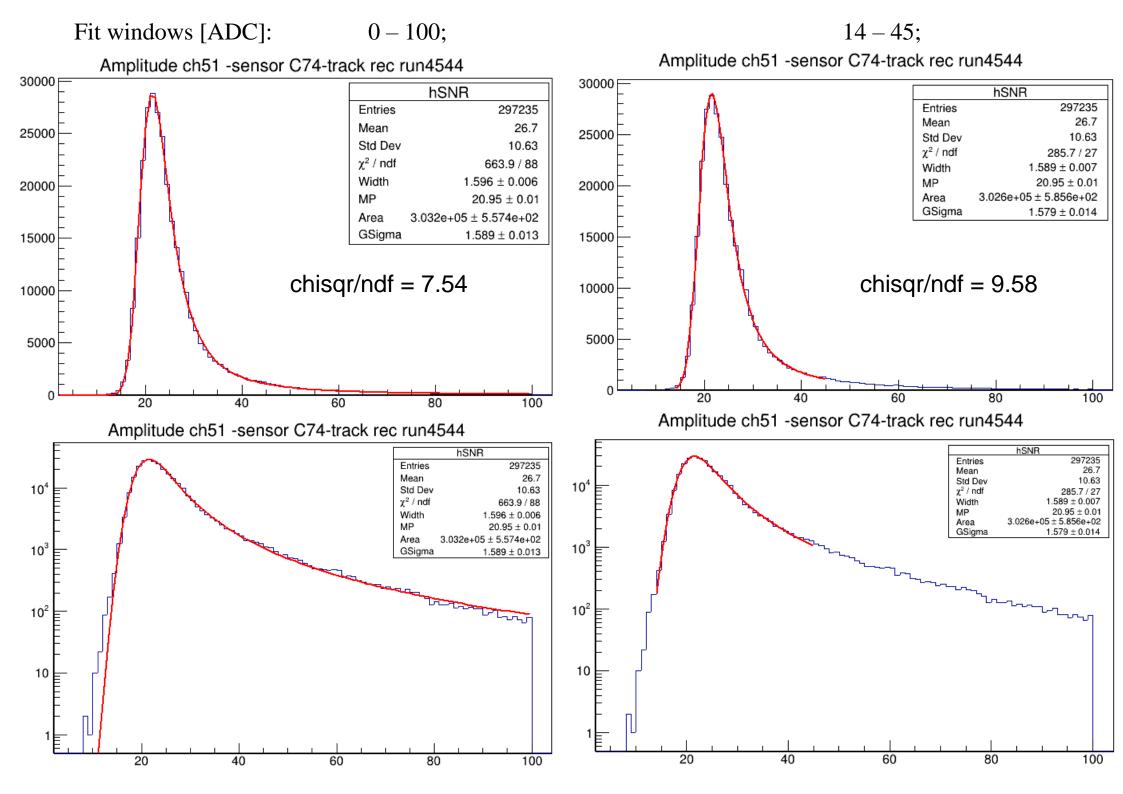
$$X+15x(Y-1)$$



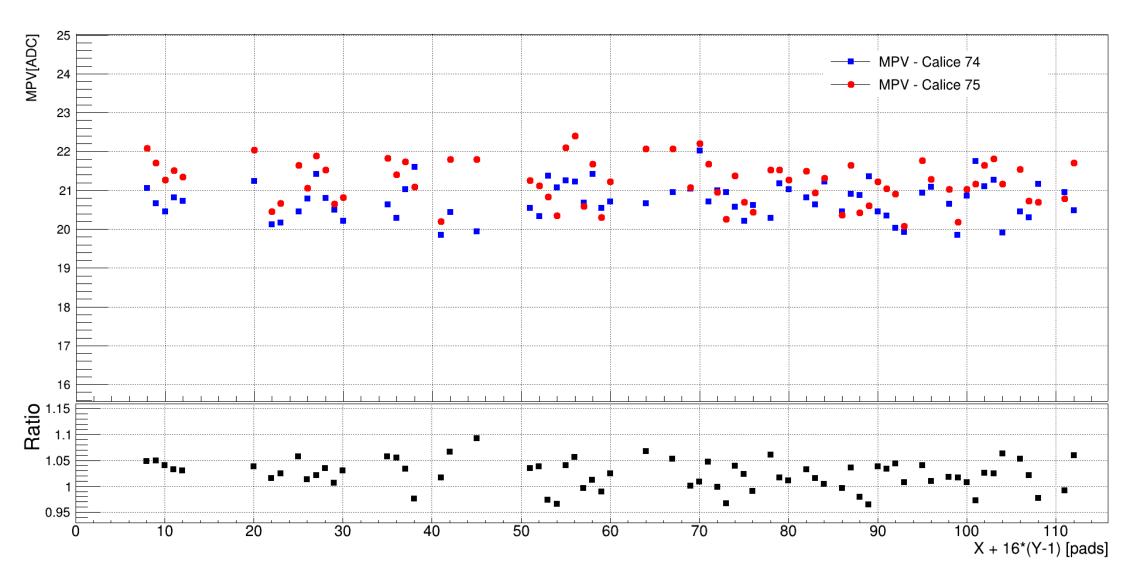






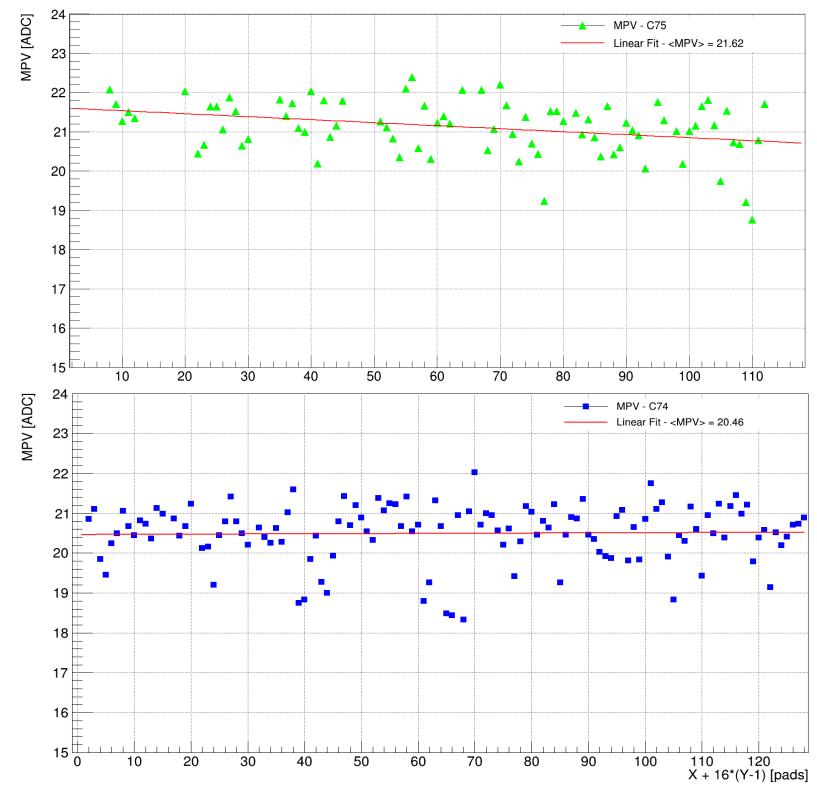


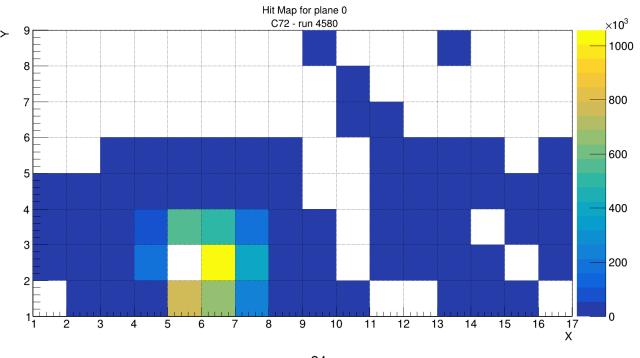
MPV of signal distribution for C74 and C75 Si sensors at 5 GeV electron beam. Bad channels have been removed.



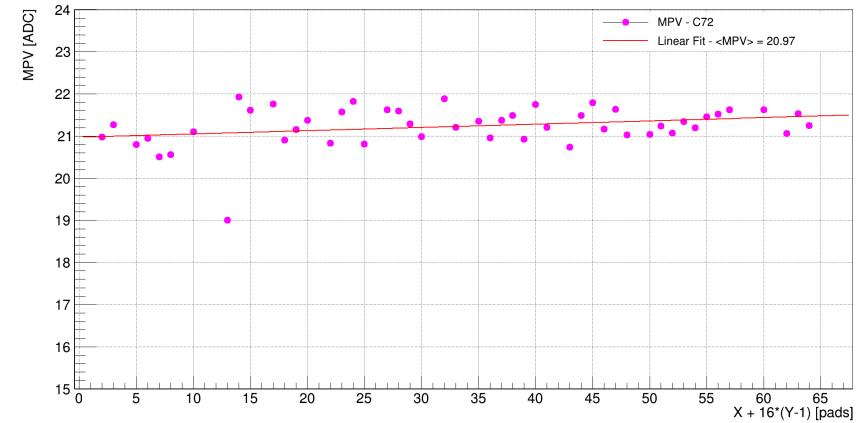
MPV of signal distribution for C74 and C74 Si sensors at 5 GeV electron beam. Bad channels have been removed.

$$\frac{\langle MPV \rangle_{C75}}{\langle MPV \rangle_{C74}} = 1,06$$

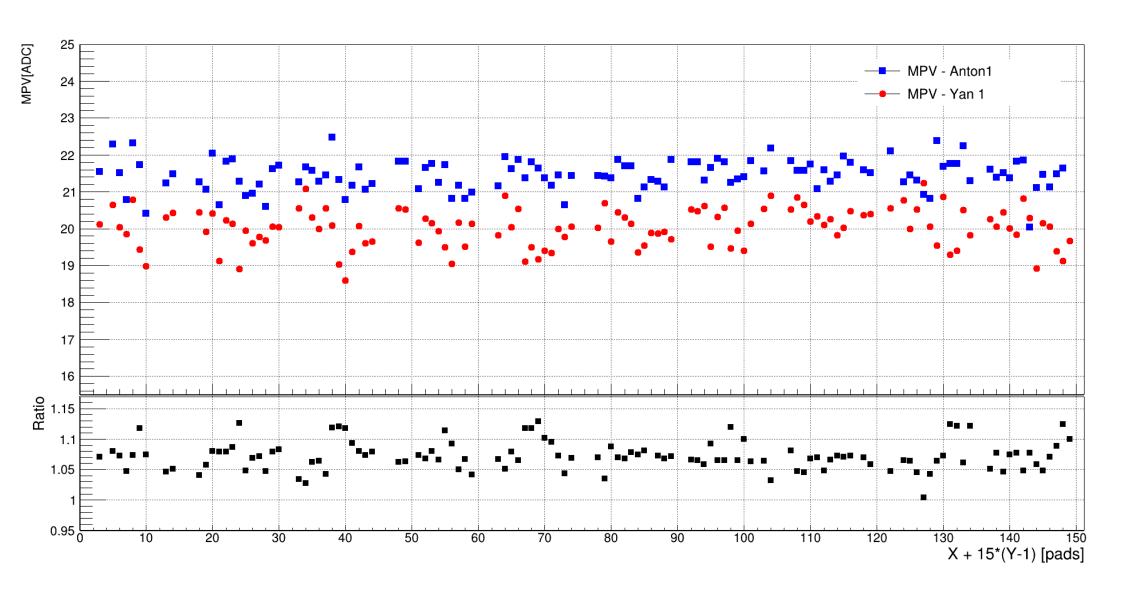




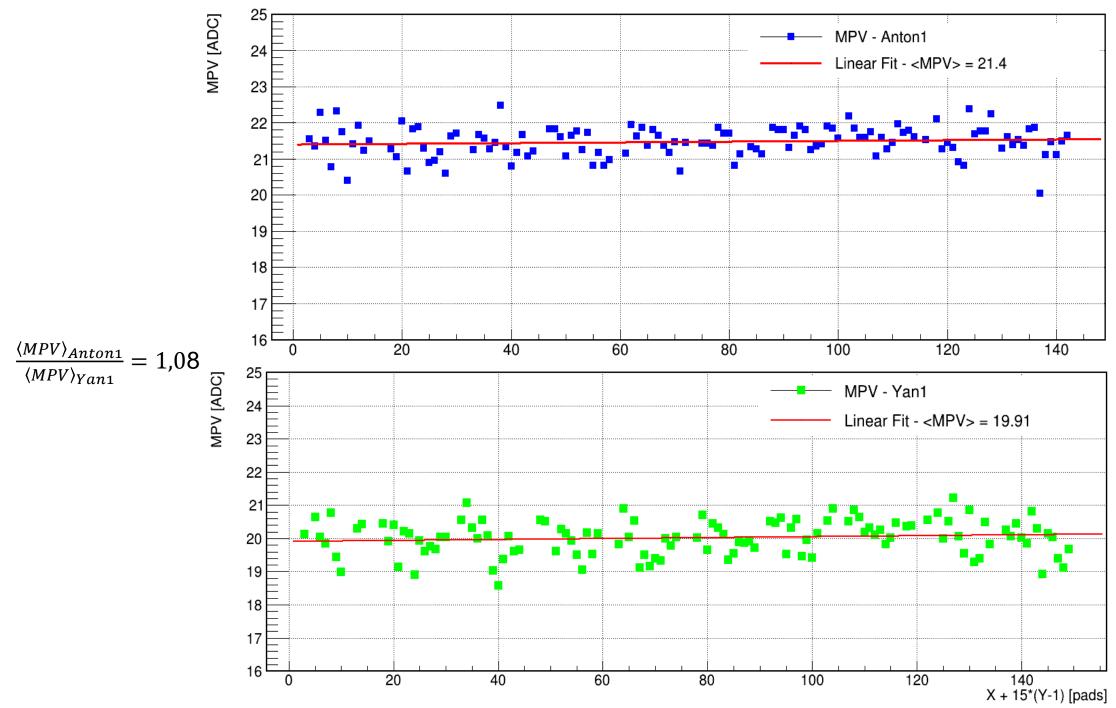
MPV of signal distribution for C72 Si sensors at 5 GeV electron beam. Bad channels have been removed.



MPV of signal distribution for Anton1 and Yan1 GaAs sensors at 5 GeV electron beam



MPVs of signal distribution for Anton1 and Yan1 GaAs sensors at 5 GeV electron beam. Bad channels have been removed.



Conclusions:

- About Silicon sensors:
 - 1. Ratio between C74 signal and C75 signal: less than 10% after removing bad channels.
 - 2. Average signal values:
 - The average signal value from the C74 sensor is 20.46;
 - The average signal value from the C75 sensor is **21.60**.
- About GaAs sensors:
 - 1. Ratio between signals: The ratio is approximately 5% to 15%.
 - 2. Average signal values:
 - The average signal value from the Anton1 sensor is **21.40**;
 - The average signal value from the Yan1 sensor is 19.91.