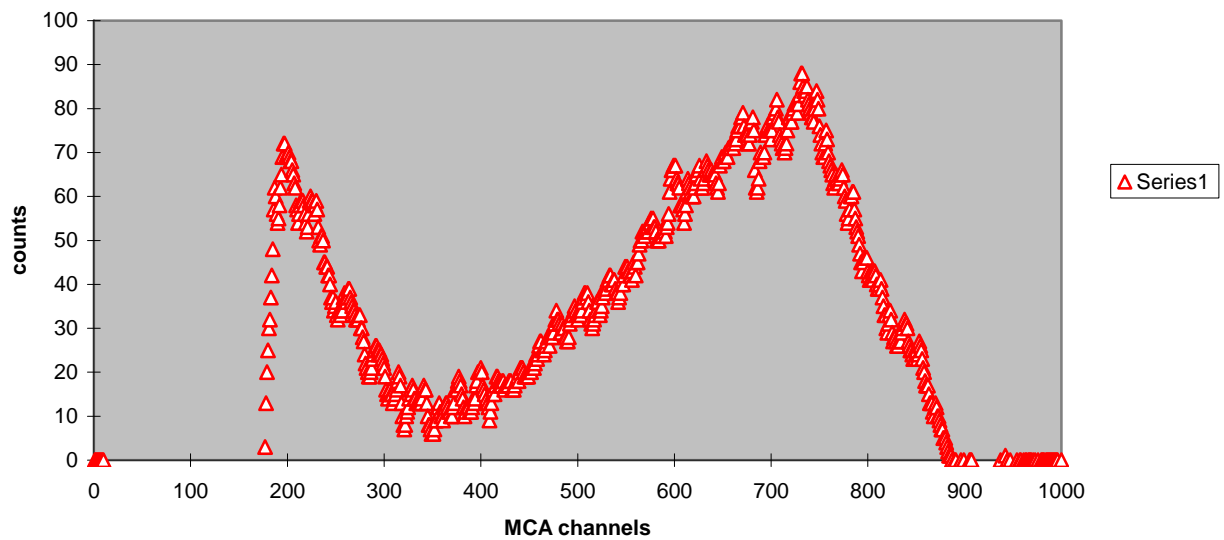


Wipe test with Pu - 239 and evaluation in the Triathler

Measurement of Pu-239/Pu-241 wipe inserted into Betaplate Scint in a minivial. Paper filter was only made wet with cocktail in order to minimize the cocktail volume. The spectrum is created by subtracting the background spectrum from a sample spectrum.



The figure shows an alpha spectrum, of an wipe test with Pu-239, measured over a time of 10 hours. The alpha signal clearly is visible.

The evaluation is made between the channels 500 and 900 results in 5654 pulses. With a measuring time of 10 hours it is 0.15 cps and with the efficiency of 100% the activity is 0.15 Bq. The LLD , calculated by these data and with 3,29 s and a measuring time of 10 minutes gives $< 0,1$ Bq Alpha - Activity.