

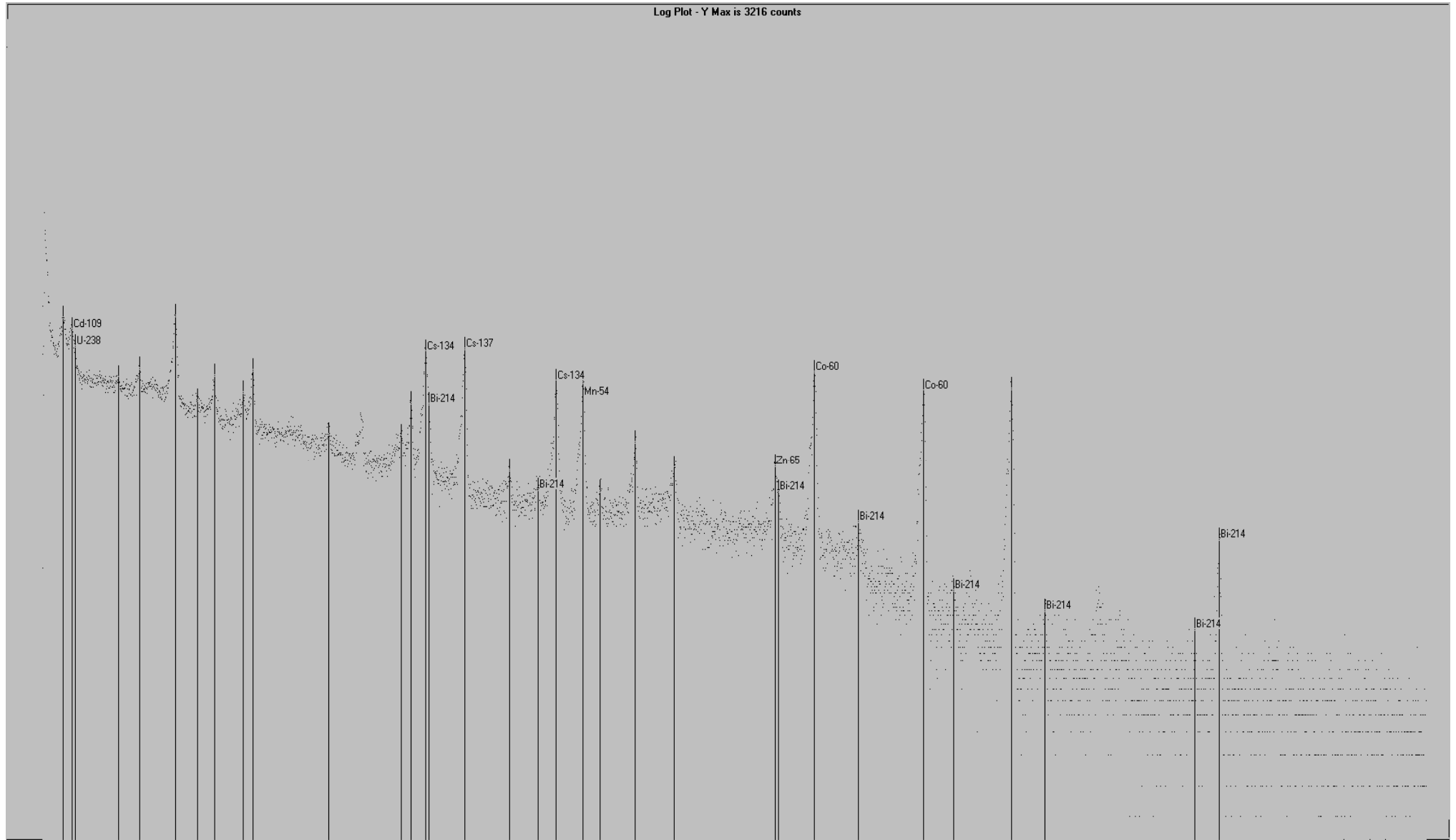


**The IAEA-CU-2007-03 world wide open proficiency test on
the determination of radionuclides in soil, spinach and water**

**Measured Gamma Spectrums and Calibration Curves
Laboratory Code: 146 (CuNo: 13949)**



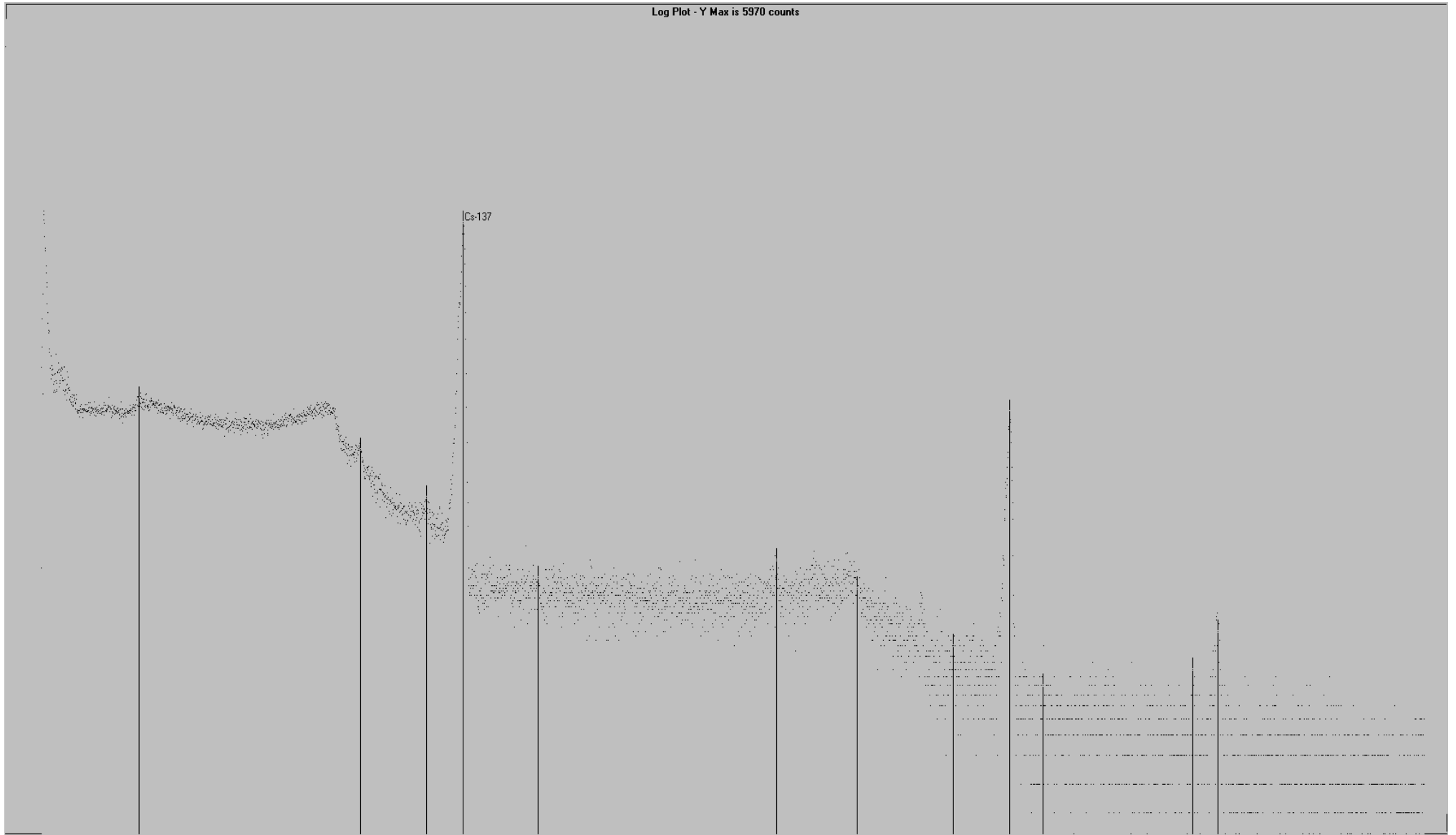
PT: IAEA-CU-2007-03. SOIL-444 GAMMA SPECTRUM



-8.8 keV Cursor at Chan 4095, 2098.9 keV with 0 counts 2098.9 keV
The centre of peak 1 is at 74.3 keV, - Significance is 11.2

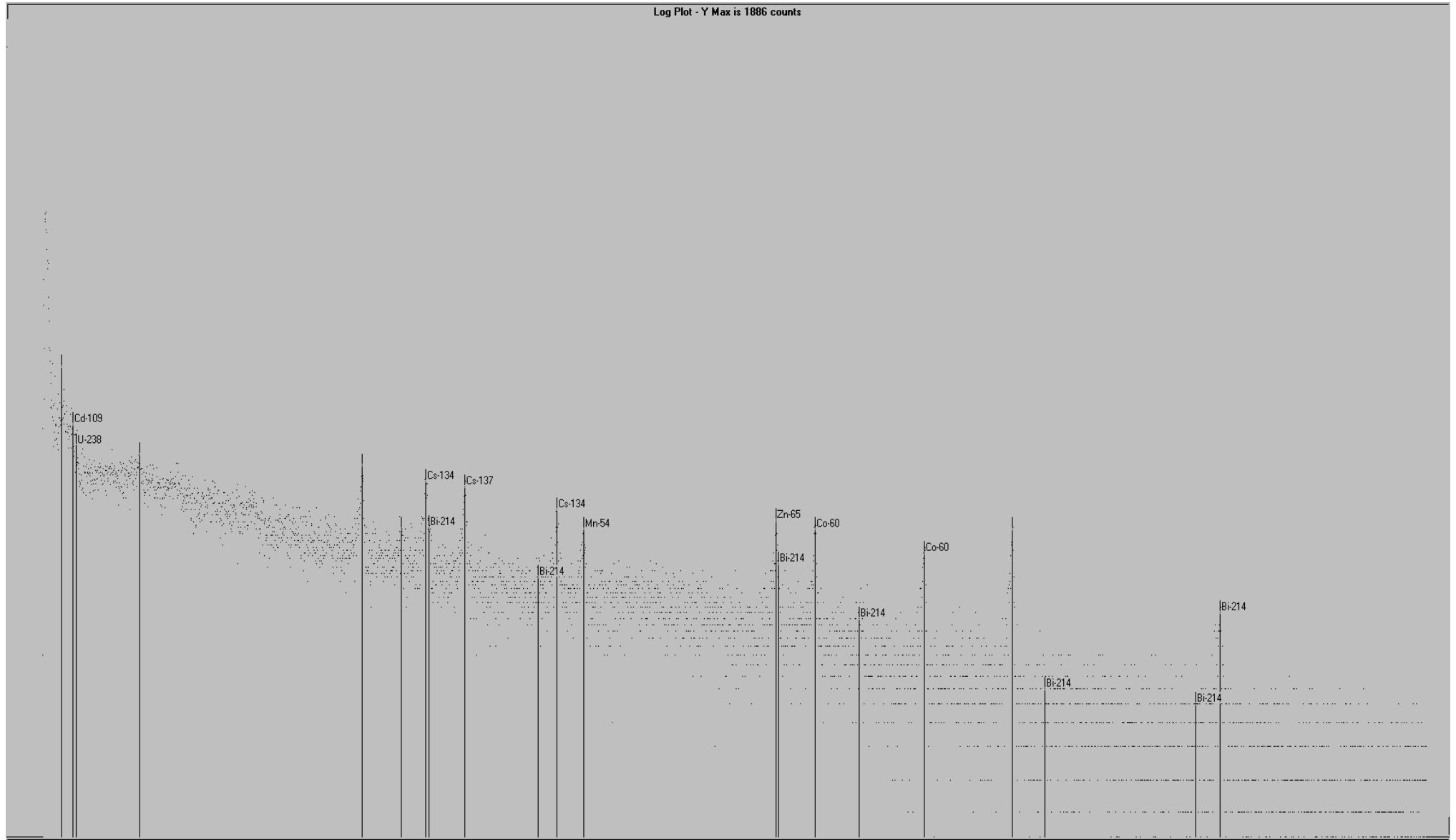
Sample: IAEA PT2007 SOIL444 taken on 15-Oct-2007 at 0:00
From Detector G1. Live Time is 72000. True Time is 72000 seconds. Collected on 4-Feb-2008 at 14:00
Using DEMO-GENERAL Defaults file G1, Calibration from file Det_G1.cal, Background data from bkg3.bkg

PT: IAEA-CU-2007-03. SPINACH-330 GAMMA SPECTRUM



Sample:- IAEA PT2007 SPINACH330 taken on 15-Oct-2007 at 0:00
From Detector 61, Live Time is 72000, True Time is 72000 seconds, Collected on 8-Feb-2008 at 14:00
Using DEMO-GENERAL Defaults file 61, Calibration from Spectrum data file, Background data from bkg3.bkg

PT: IAEA-CU-2007-03. WATER-445 GAMMA SPECTRUM

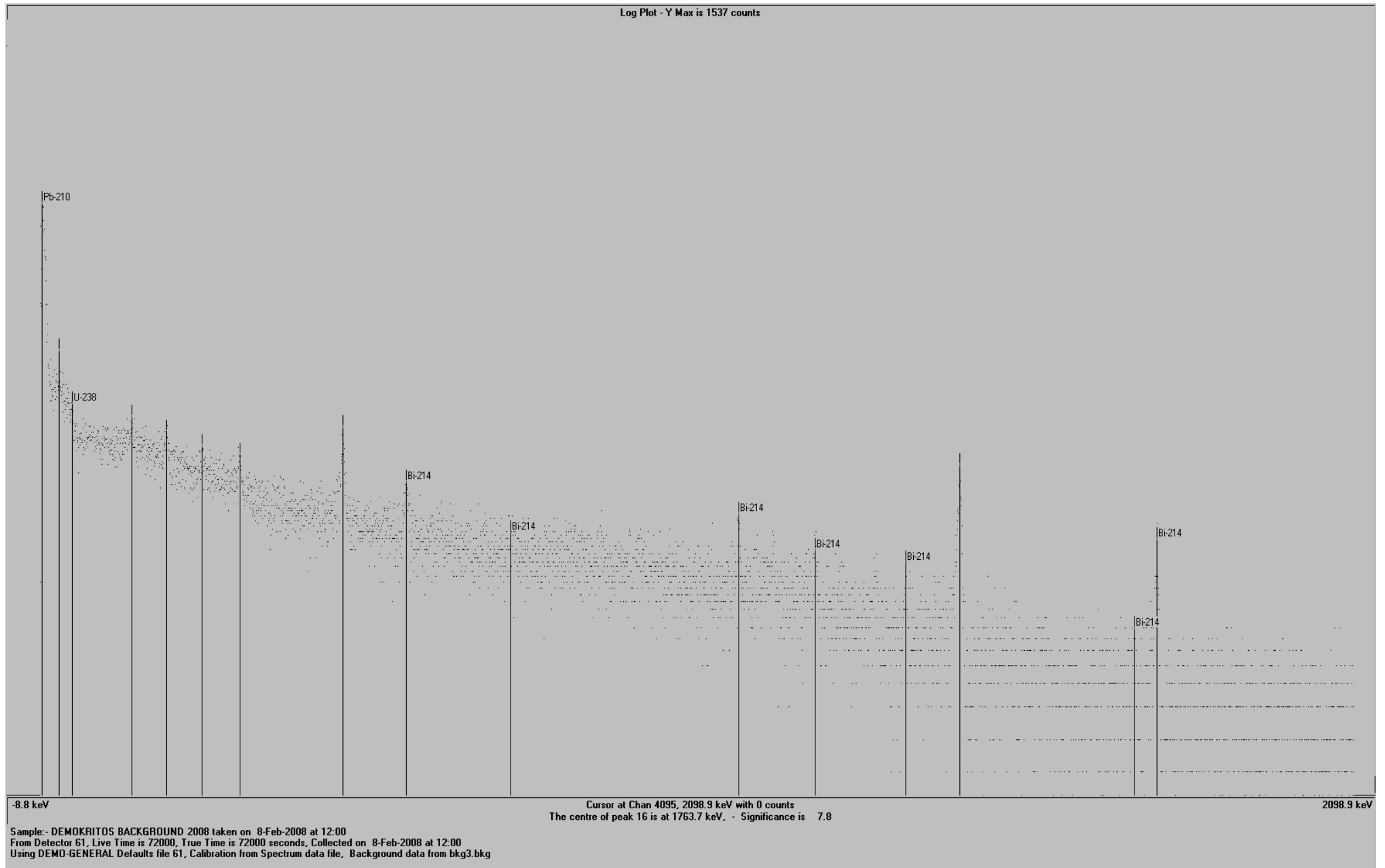


-8.8 keV Cursor at Chan 4095, 2098.9 keV with 0 counts 2098.9 keV

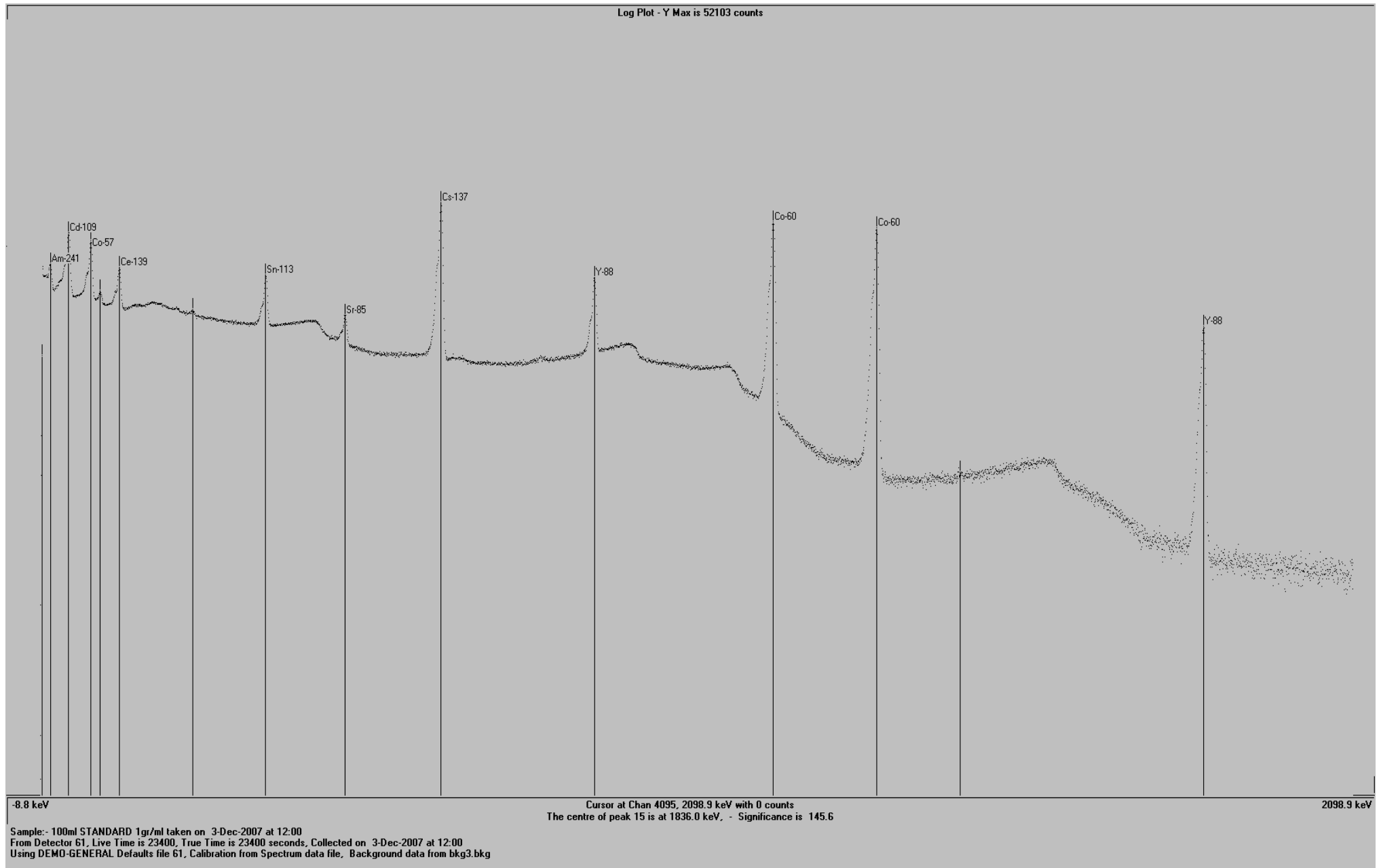
The centre of peak 21 is at 1764.7 keV. - Significance is 4.7

Sample:- IAEA PT2007 WATER445 taken on 15-Oct-2007 at 0:00
From Detector 61. Live Time is 59400, True Time is 59400 seconds, Collected on 11-Feb-2008 at 18:00
Using DEMO-GENERAL Defaults file 61, Calibration from Spectrum data file, Background data from bkg3.bkg

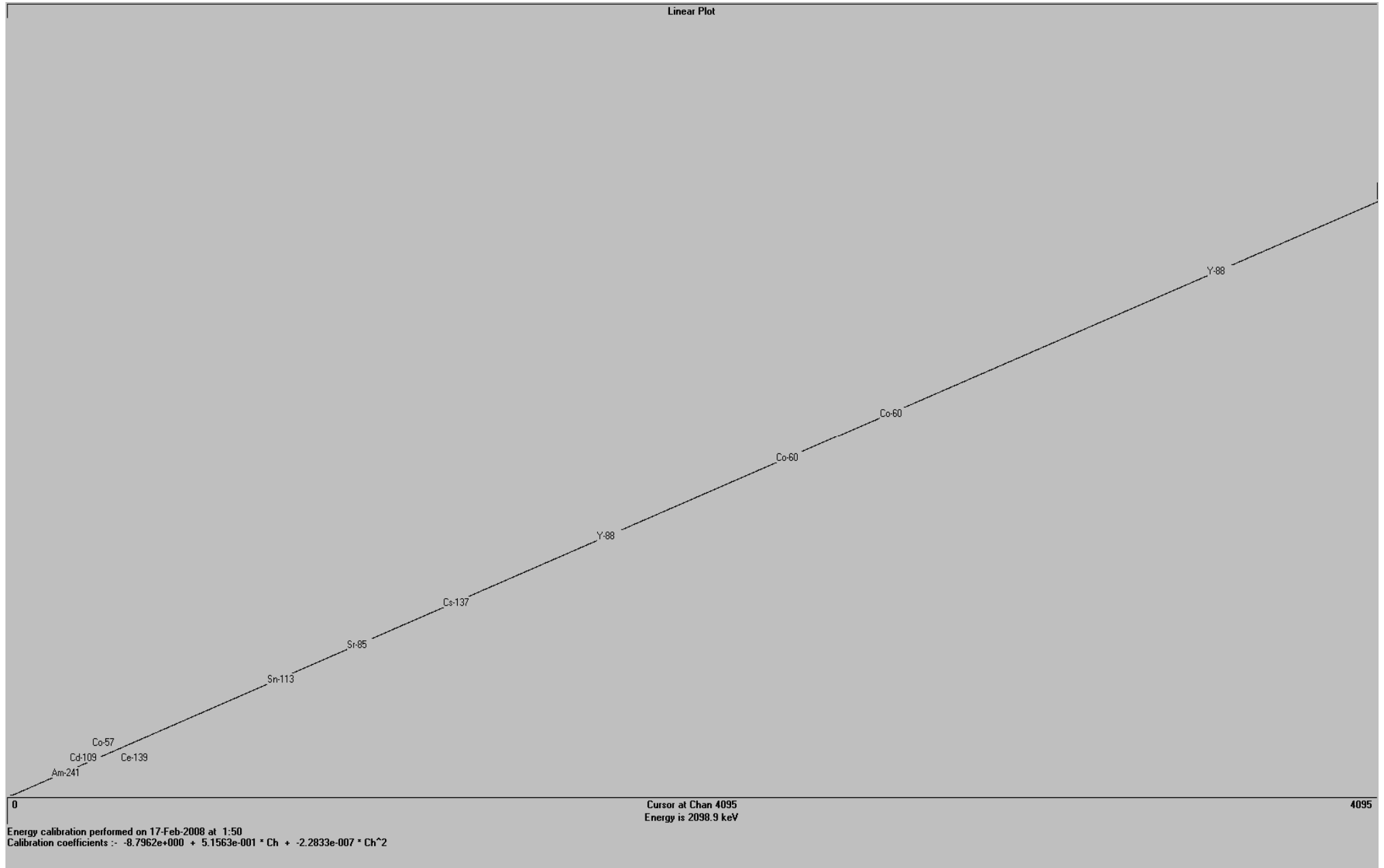
PT: IAEA-CU-2007-03. ENVIRONMENTAL BACKGROUND GAMMA SPECTRUM



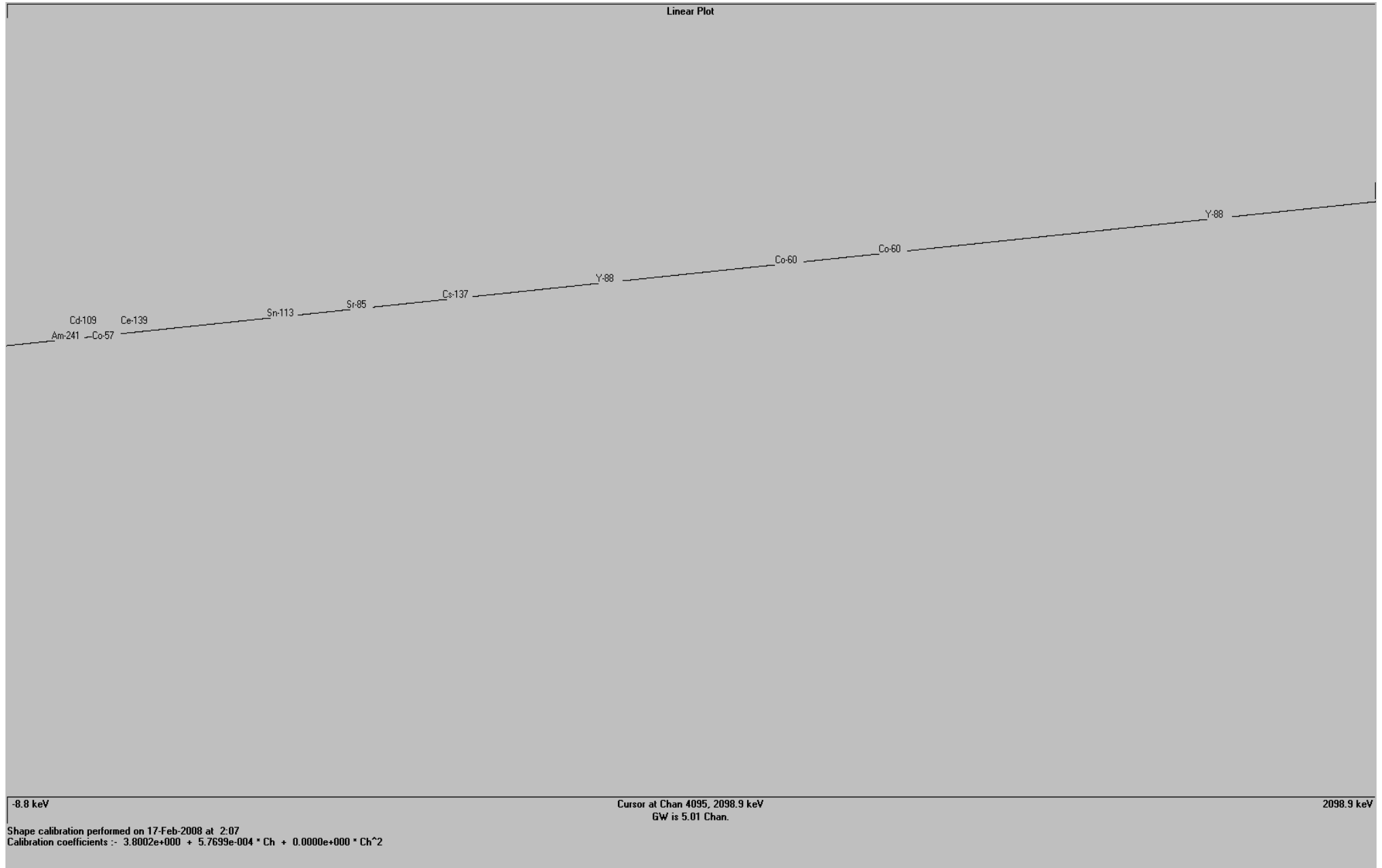
TYPICAL MULTINUCLIDE CALIBRATION STANDARD SOURCE USED IN OUR LABORATORY



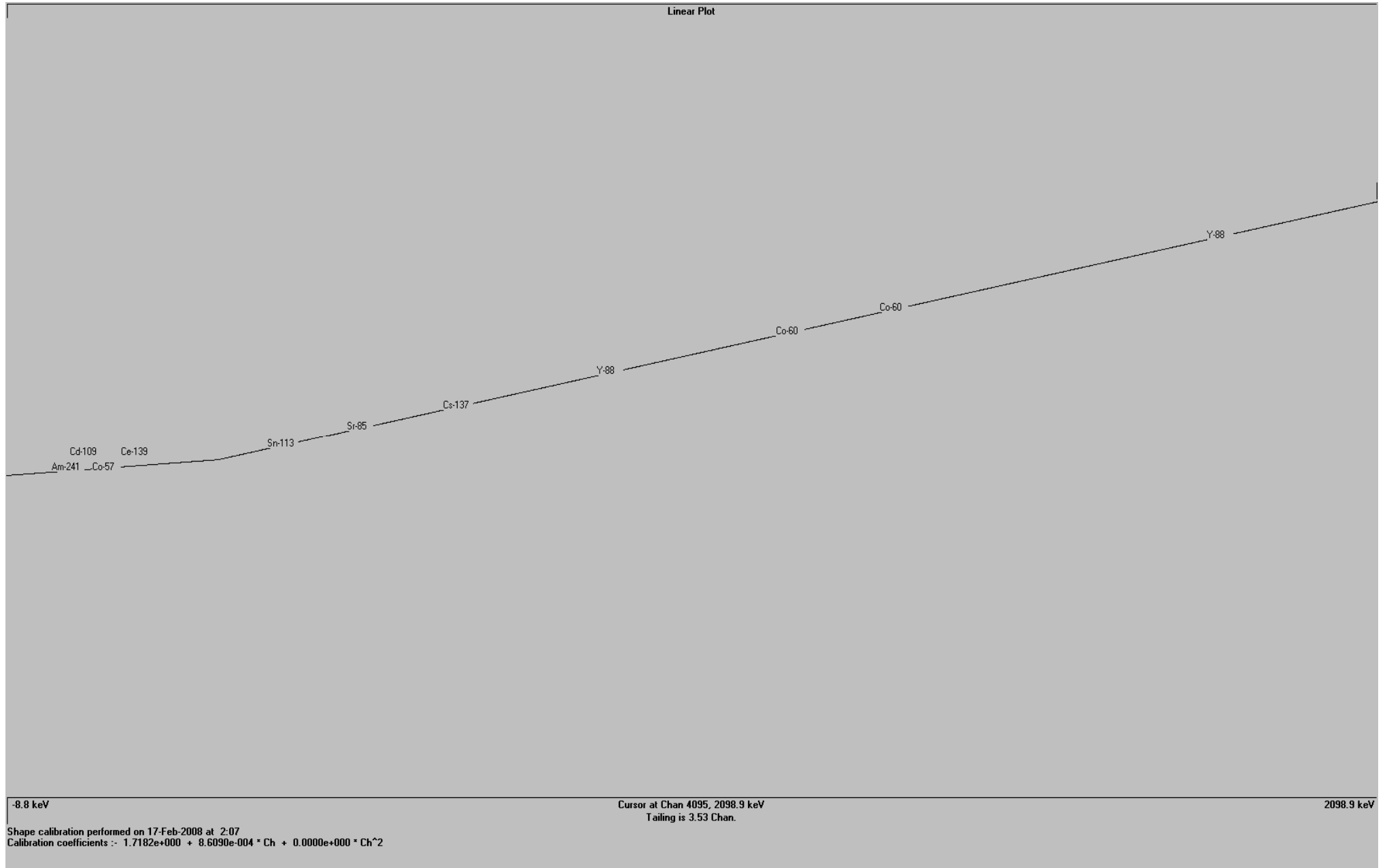
TYPICAL ENERGY CALIBRATION CURVE



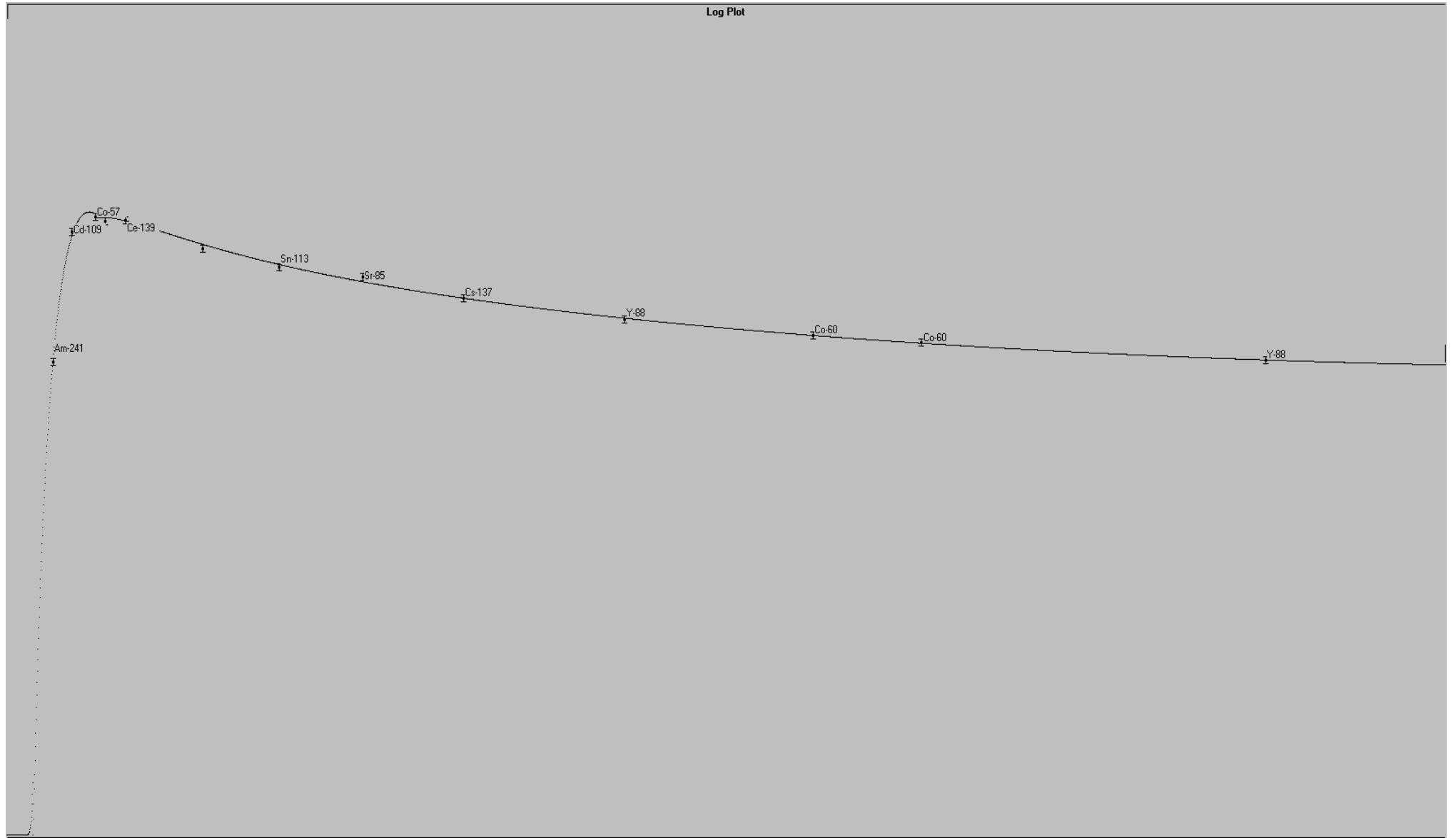
TYPICAL (GAUSSIAN) WIDTH CALIBRATION CURVE



TYPICAL LOW ENERGY TAILING CALIBRATION CURVE



TYPICAL EFFICIENCY CALIBRATION CURVE



-8.8 keV Cursor at Chan 4095, 2098.9 keV
Efficiency is 0.4731 % +/- 6.8 % 2098.9 keV

Efficiency calibration performed on 17-Feb-2008 at 5:27
Crossover Energy is 121.0 keV, Low Energy order is 3, High Energy order is 6.
Geometry 61 Description:- GAEC 100ml STANDARD 1gr/ml, Default Bkg file :- bkg3.bkg
Calibration source uncertainty : 5.00 %

