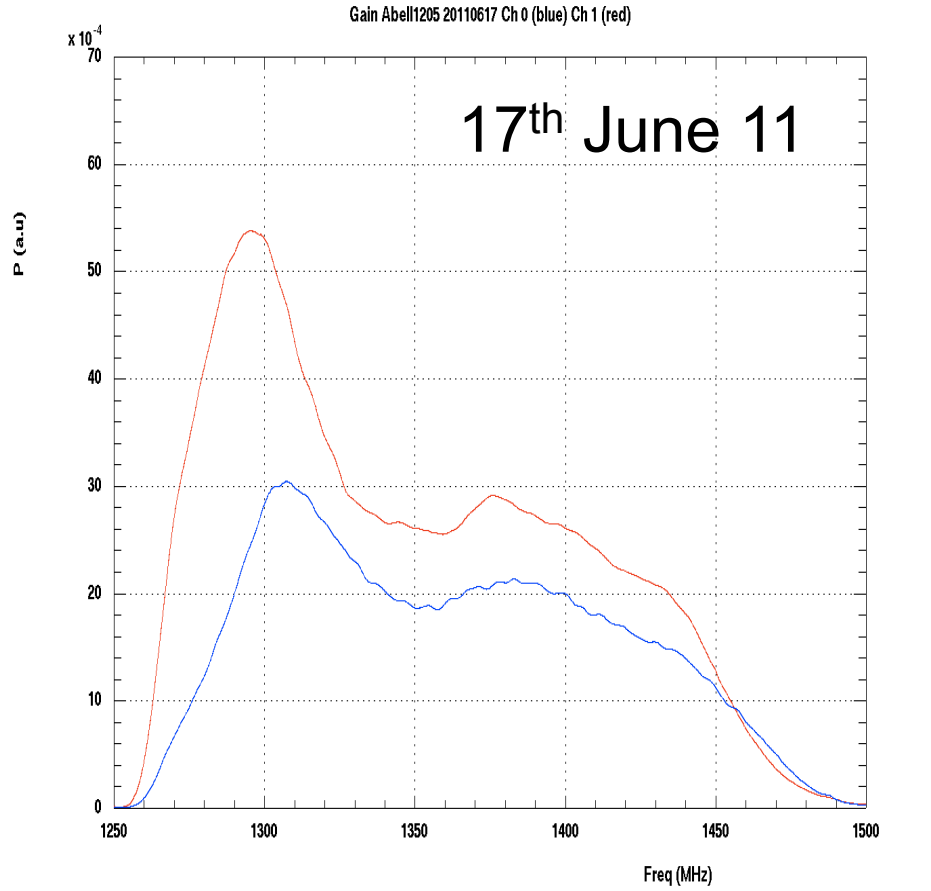
Oscillations in BAOelec spectra

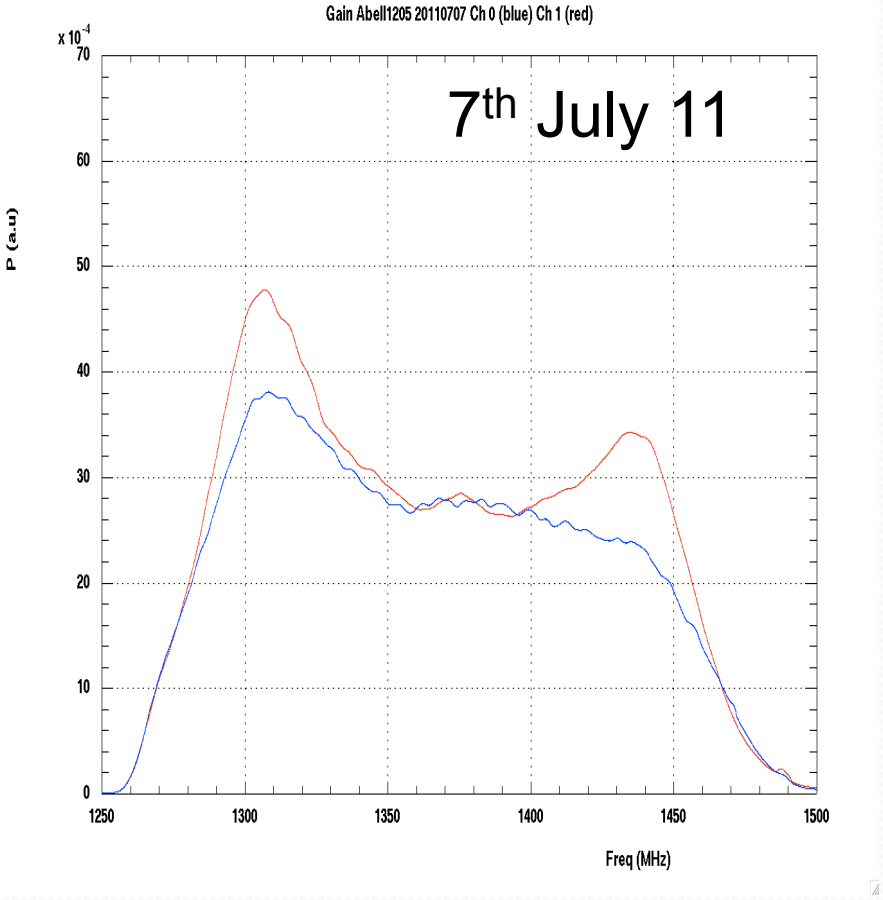
- Cluster data BAOelec vs. ACRT (A. S Torrentó)
- PAON2 data BAOelec (J.E Campagne)

16 Jan 2013

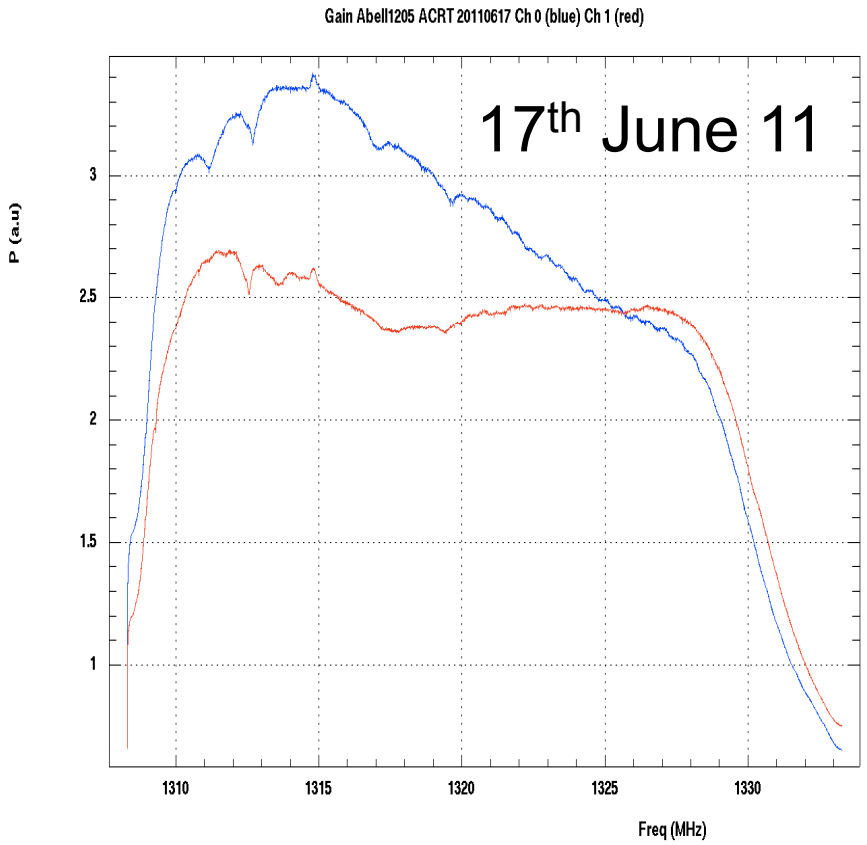
Nançay/Amas/09.02.12, 13/012/12

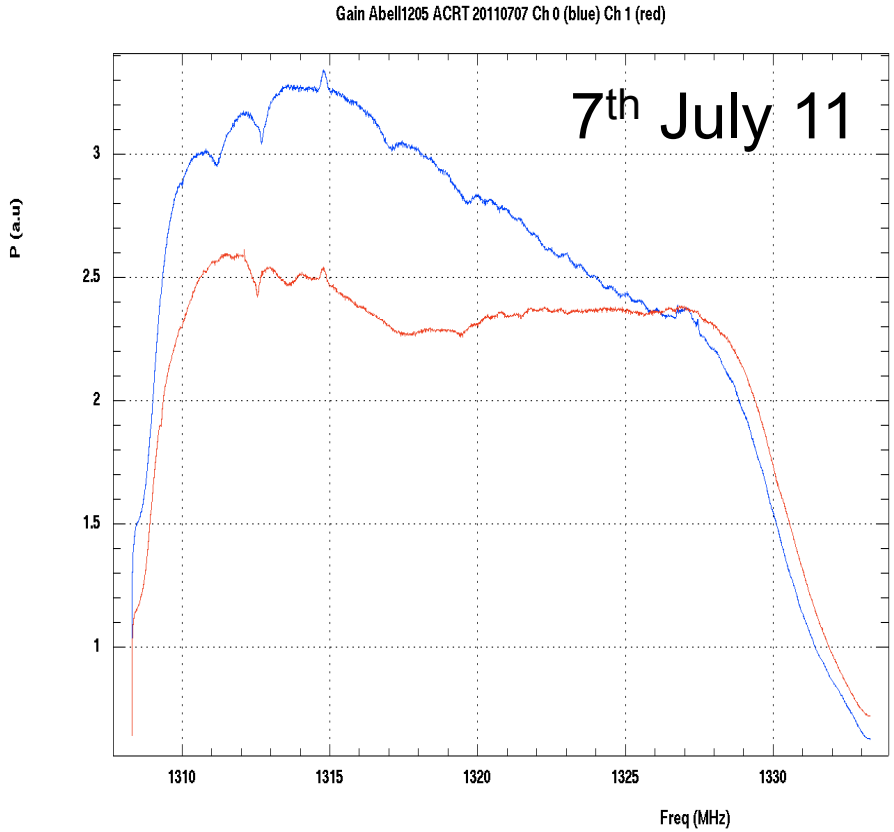
Gain change BAOelec



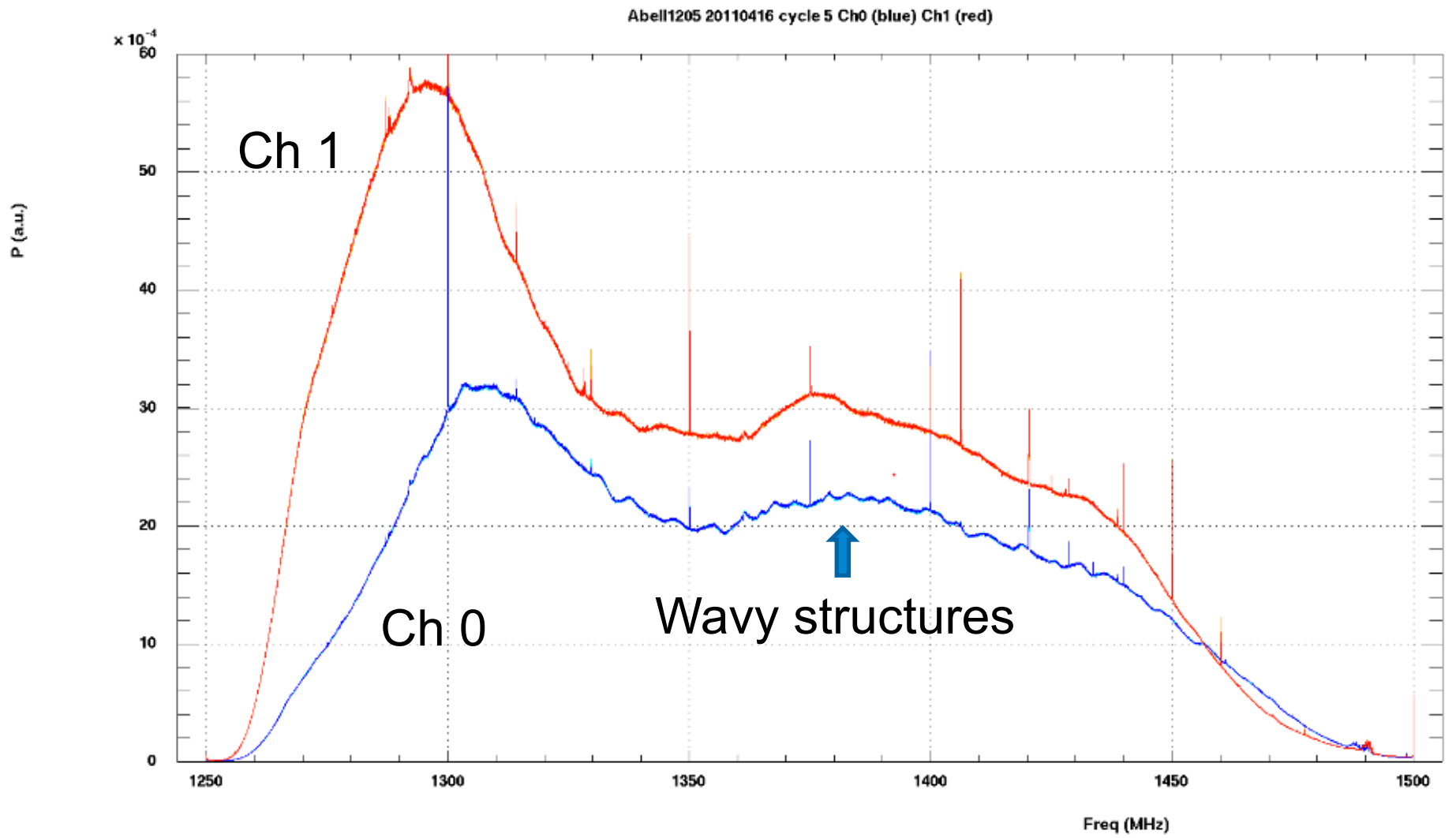


Gain ACRT minor changes!

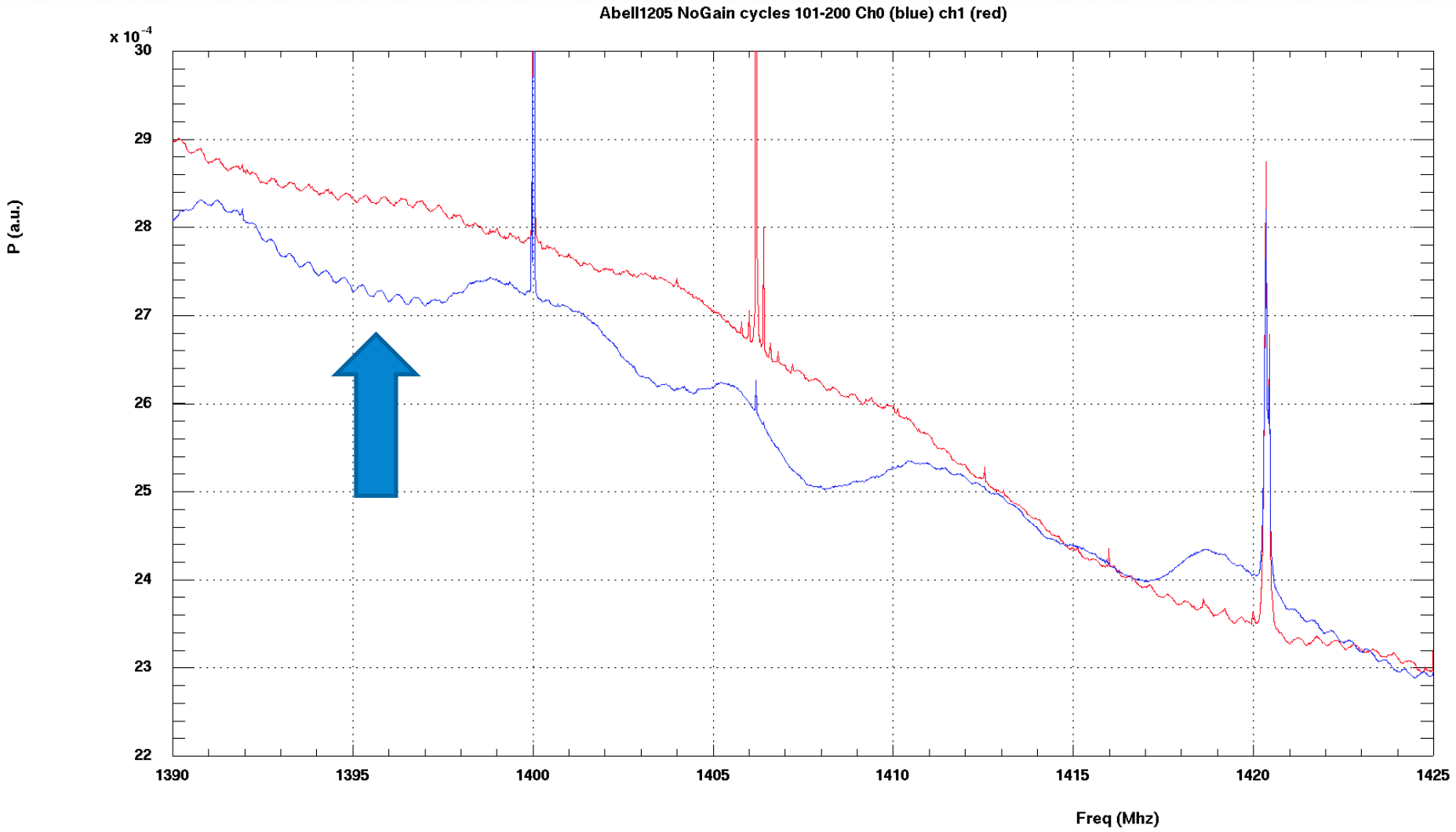




3 5-MHz Oscillations BAOelec

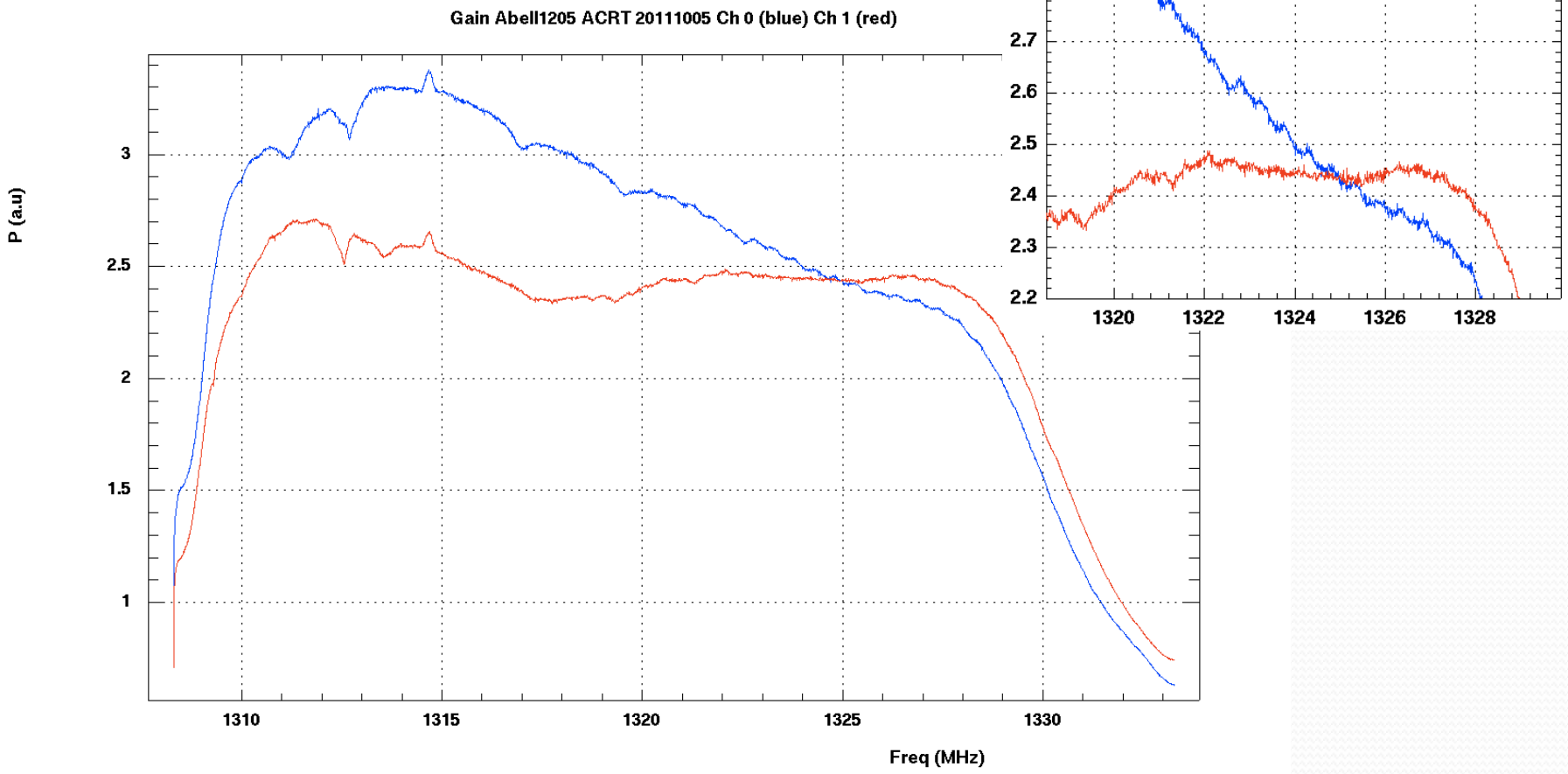


500kHz oscillations BAOelec



3 5-MHz Oscillations ACRT ?: No 500kHz: Yes!

Mind the Freq.band



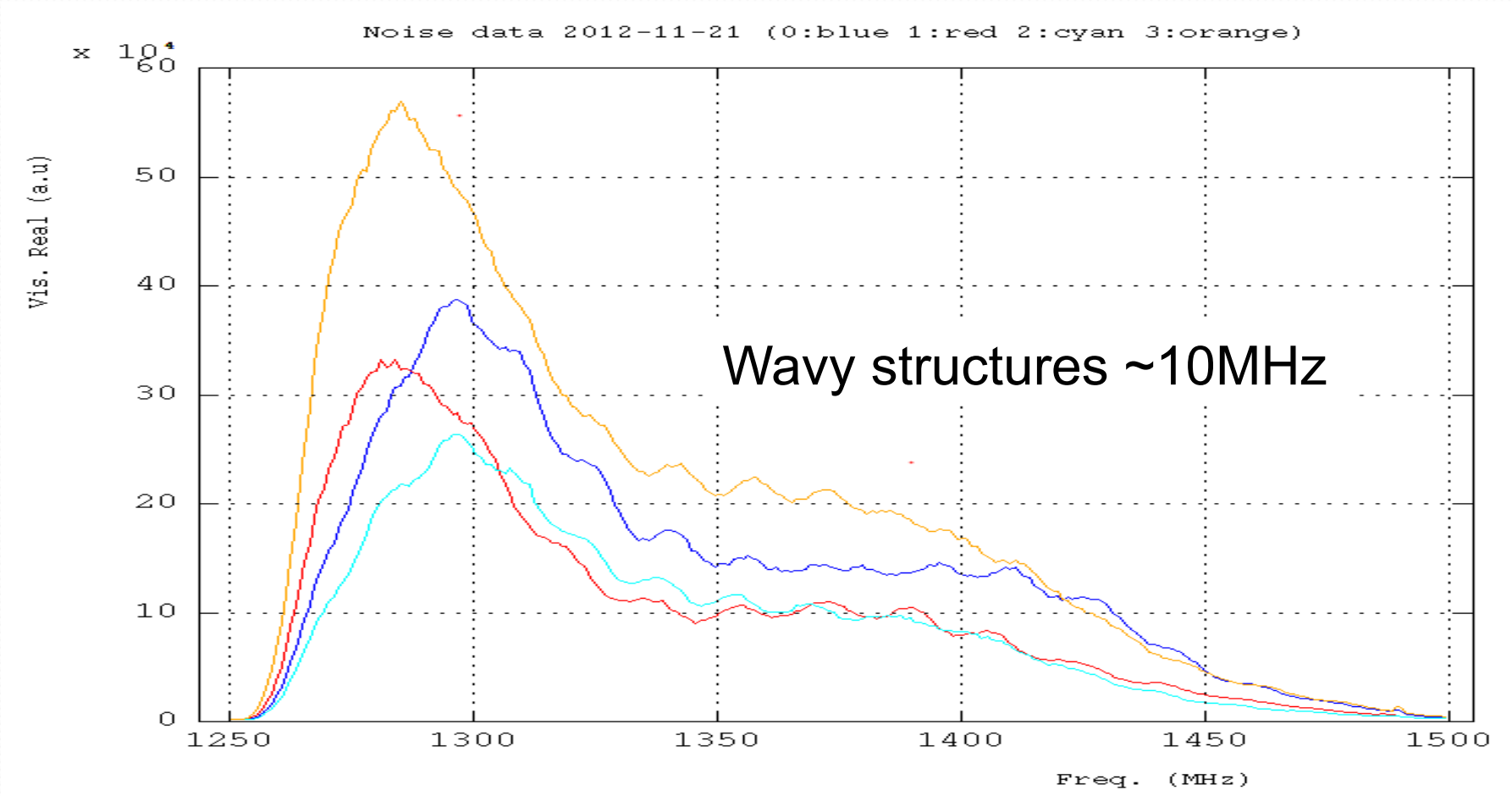
Cluster Summary

- **BAOelec**:
  - We do observe changes in gain shape (~Jul 2011).
  - We do observe the presence of 3[illegible]5-MHz oscillations in Ch0 (less prononced for Ch1) which decrease in Oct 2011.
  - We observe the 500kHz oscillations when we accumulate spectra.

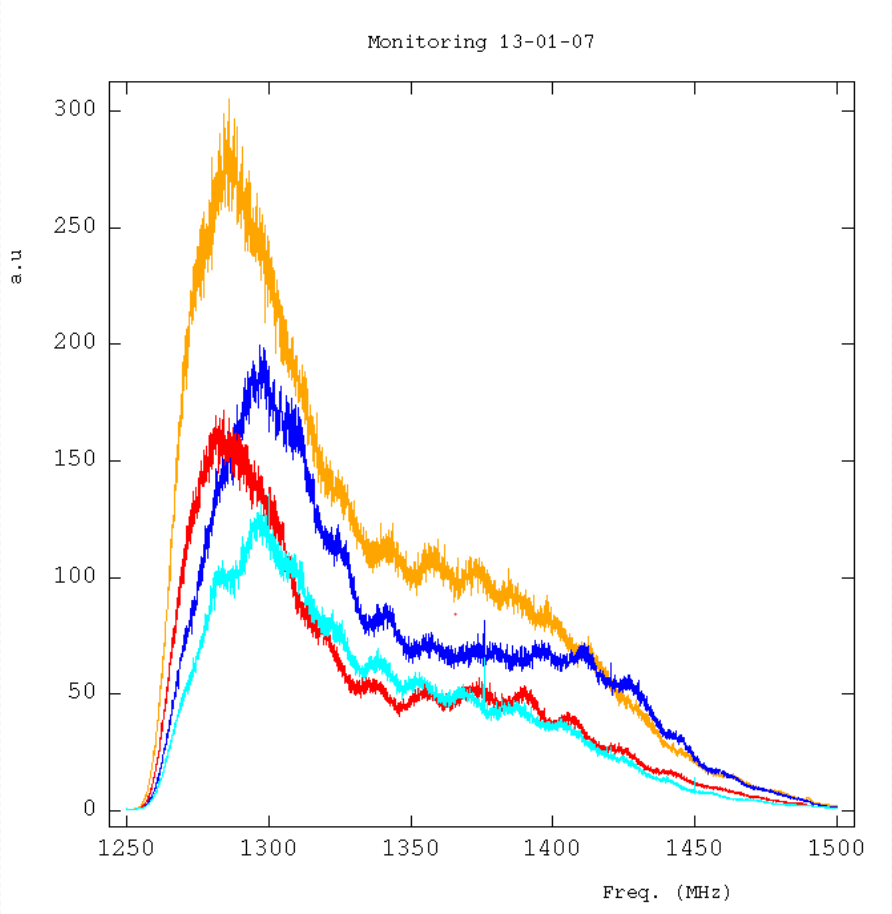
- **ACRT**:
  - We do not observe changes in gain shape.
  - The is no 3[illegible]5-MHz oscillations.
  - We observe the 500-kHz oscillations.

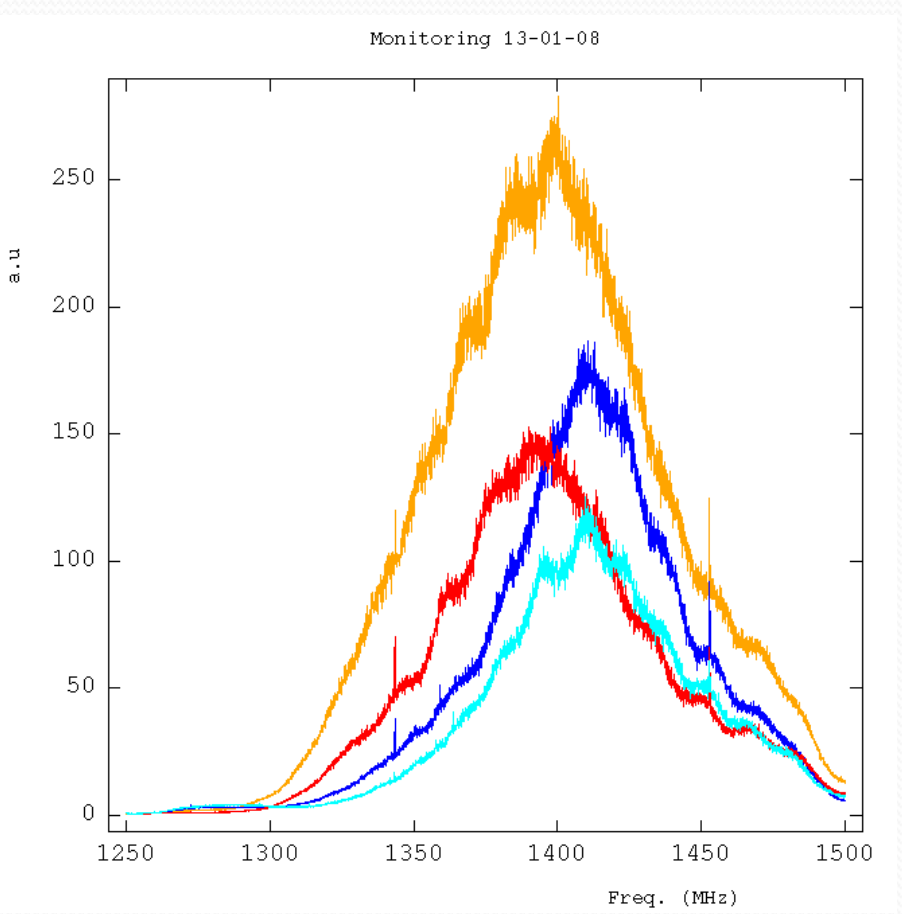
PAON2 data

All the data present the same features since the beginning.
I illustrate here using noise run (ie. no Sun, CygA…, RFI)



PLL failure !!!!!





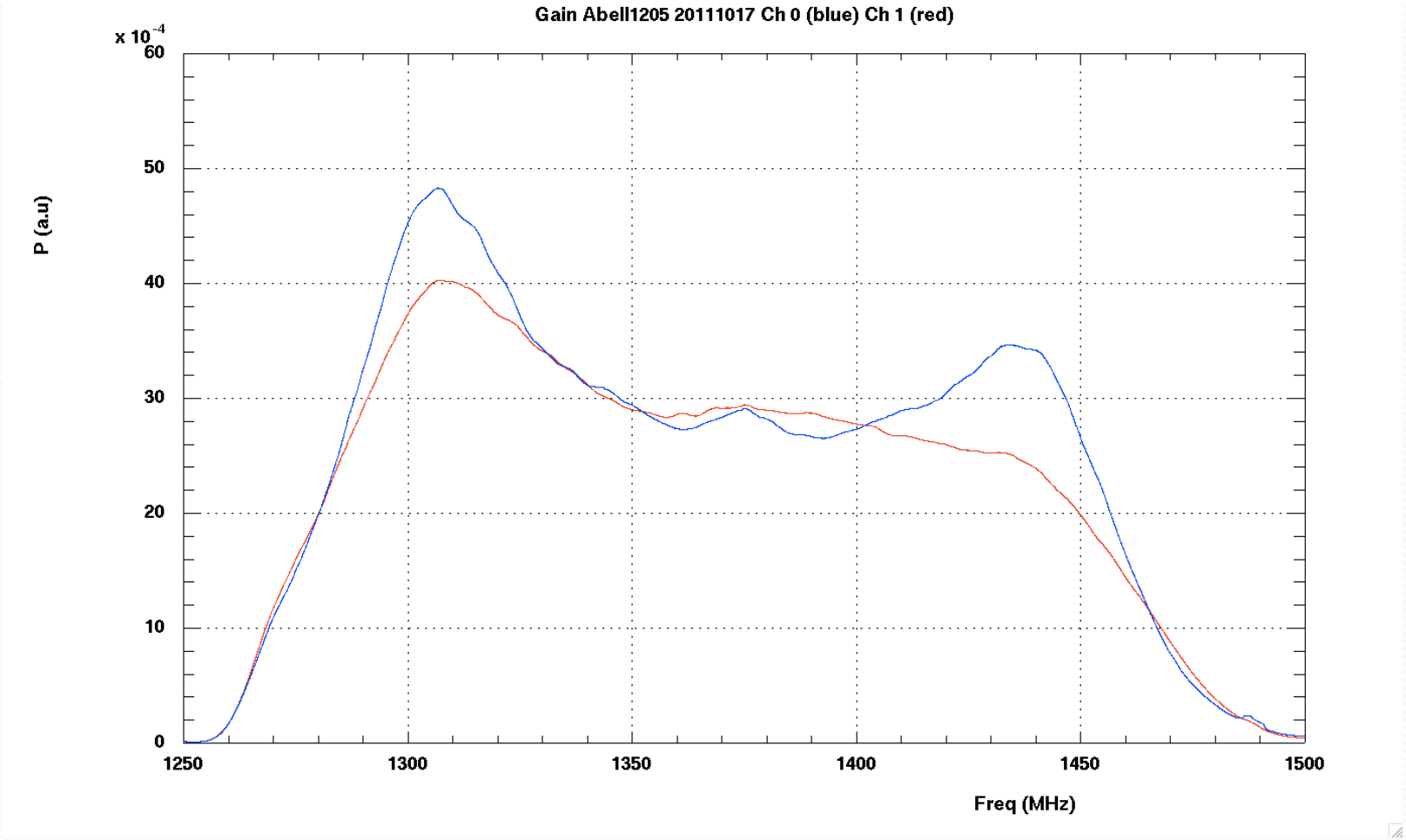
How to be sure that DAQ will start with PLL locked?

Back-up

Cluster Data

- We use Abell1205 data.
- Gain shape change:
  - 20110617, scan 152948, cycle 9
  - 20110707, scan 153609, cycle 13
- 3[illegible]5 MHz Oscillation change:
  - 20111005, scan 156419, cycle 11
  - 20111017, scan 156685, cycle 11
- BAOelec: oscillation plots we raw spectra or gain spectra ((-4:14)sec around DAB-OFF).
- ACRT: We take the same cycles as for BAOelec, and we plot the average of integrations (50,85), i.e. OFF spectra for a given cycle to see better the features.

5-MHz Oscillation change II. BAOelec



Exchange of Ch0, Ch1 !!!

5-MHz Oscillation change II. ACRT