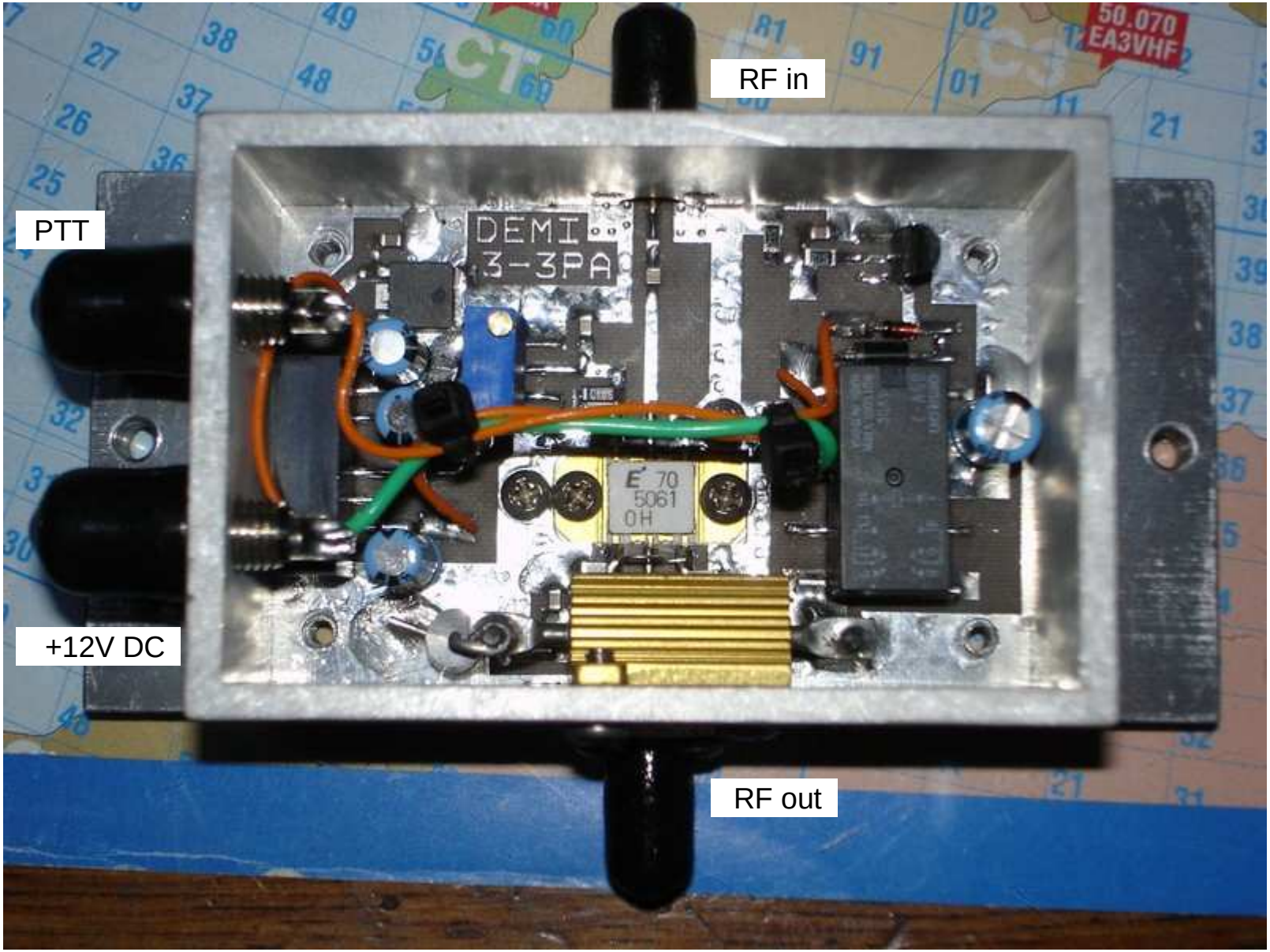
DEM 10 GHz 3-3PA amplifier

Target

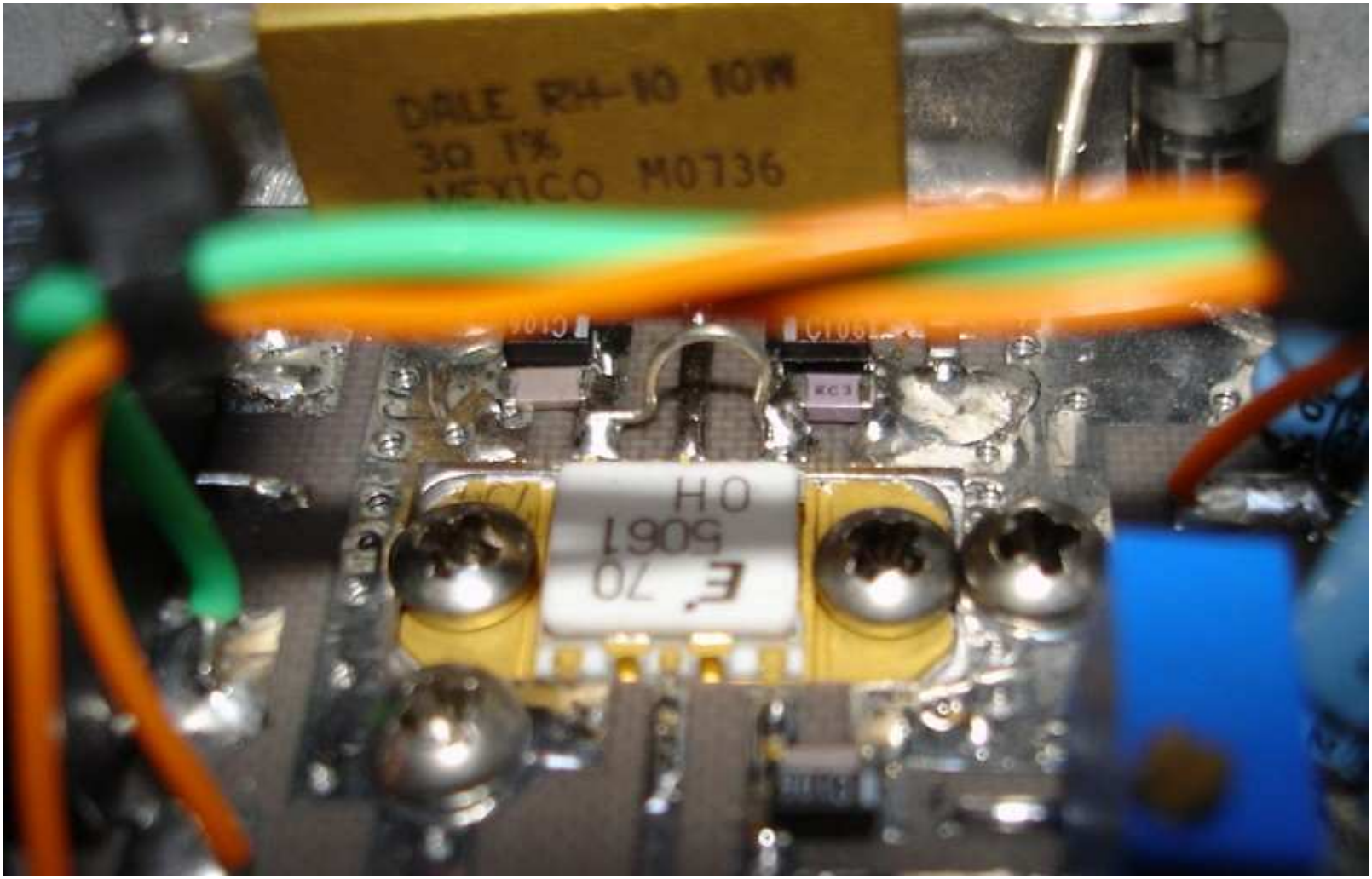
- **Internal view**
- **Scalar broadband measurements**
- **Pout versus Pin measurements à 10.37 GHz**
- **Noise/gain measures (for the fun)**

- **Linear buffer following an HP 8350 sweep, for 10 GHz 200 mW amplifier measurements with Pin about 200 mW (as 2 meter TRx + DB6NT transverter alternative)**

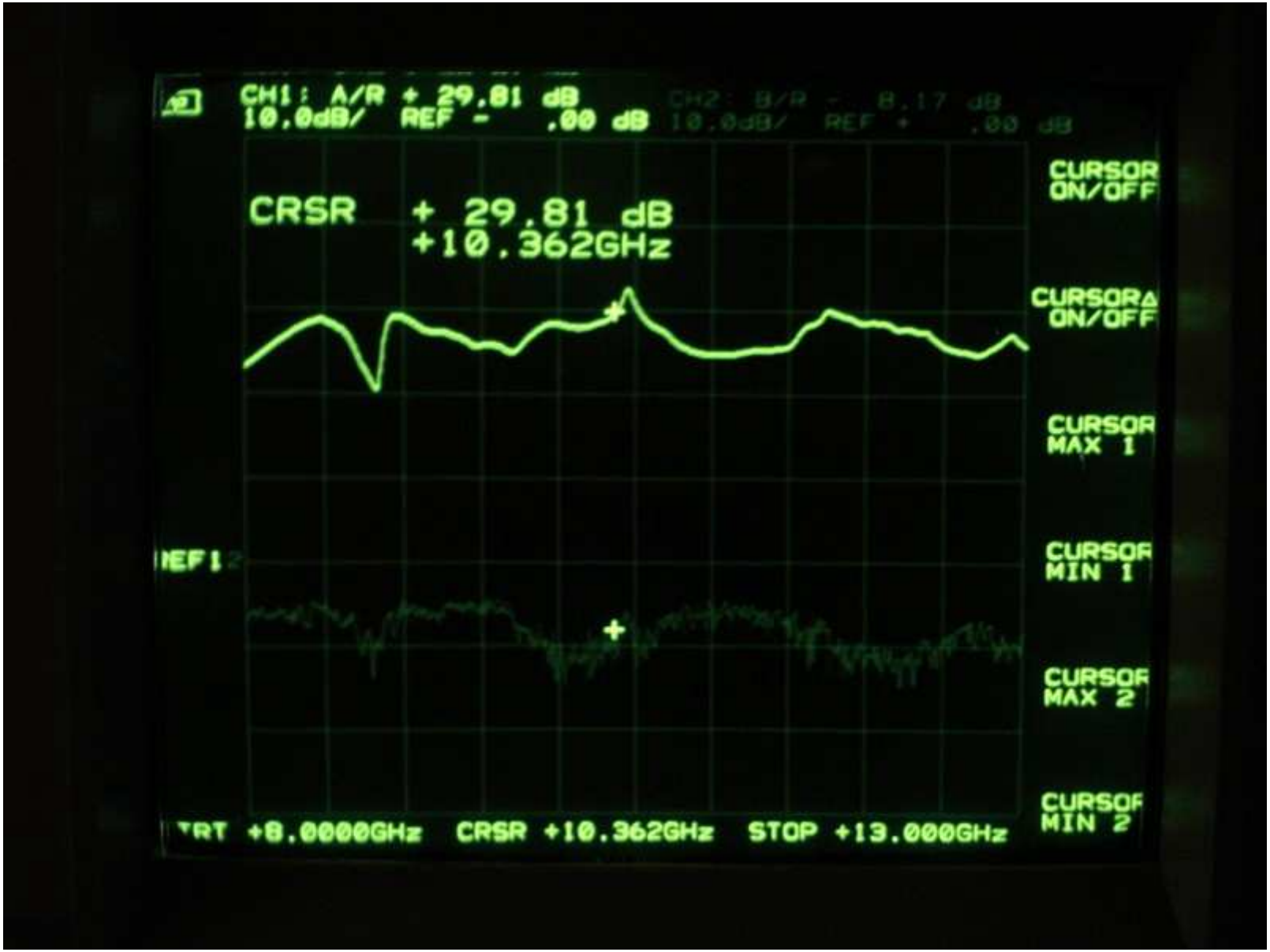
Internal view



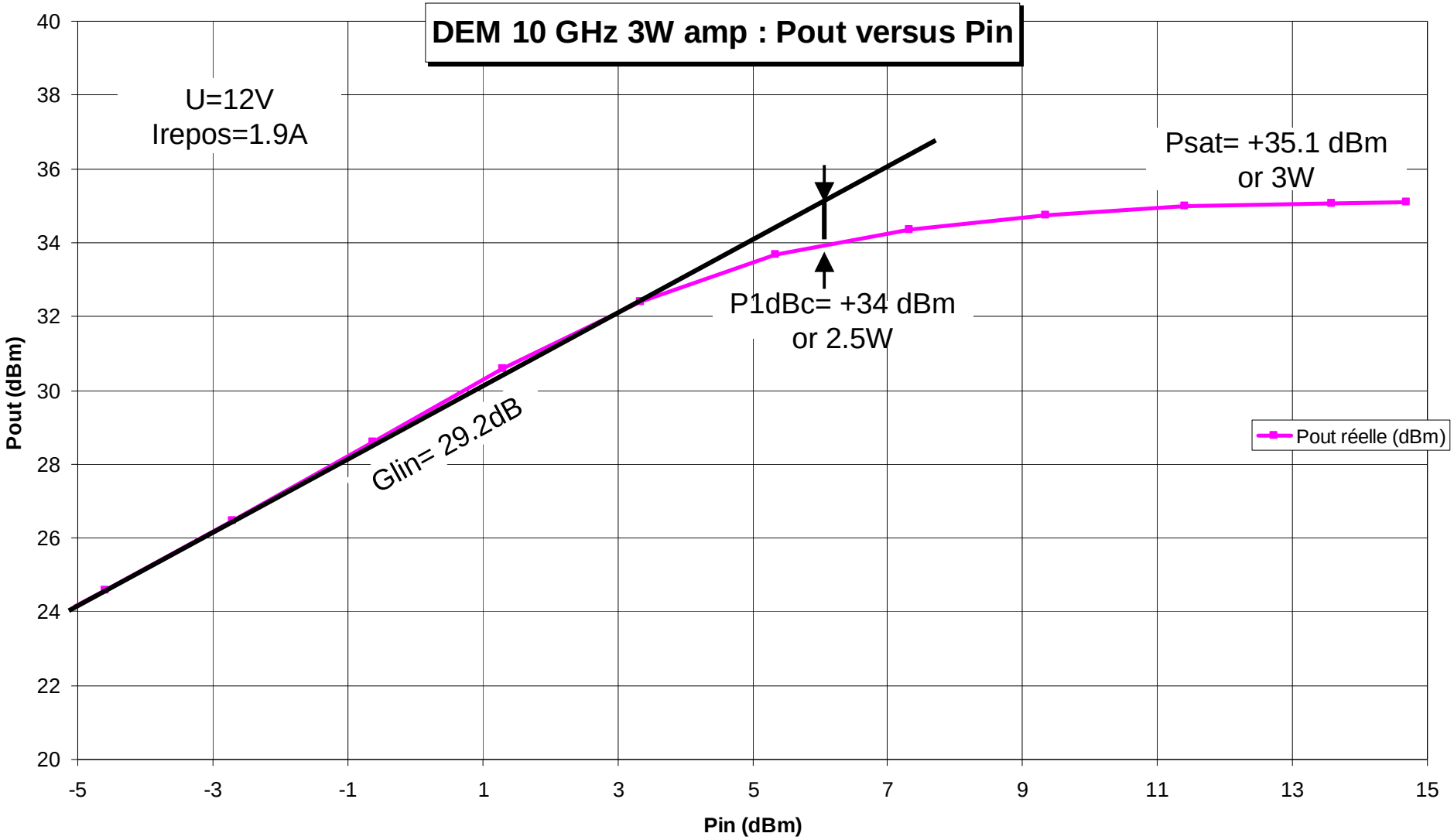
Zoom on Rf output



Scalar linear broadband curve



Direct output power measurement



Gain/Nf measurements (for the fun)

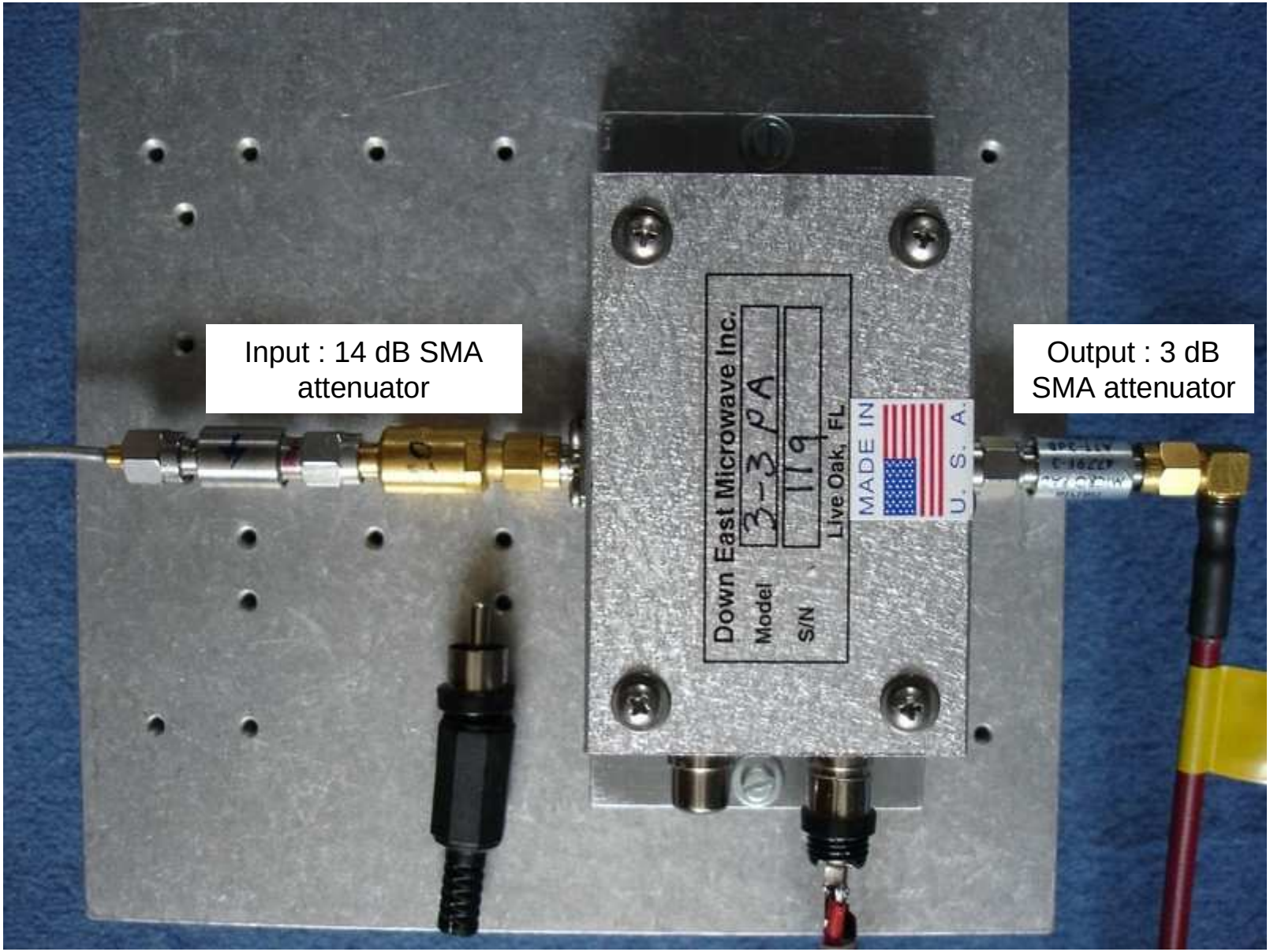
Buffer for HP 8350 sweep

Why ?
-Testing any 10 GHz post amplifiers well matched for the DB6NT output
- Building easily the P1dBc curve of any 10 GHz post amplifier requiring 200 mW input, (impossible with only the normal transverter + 144 or 432 MHz rig)

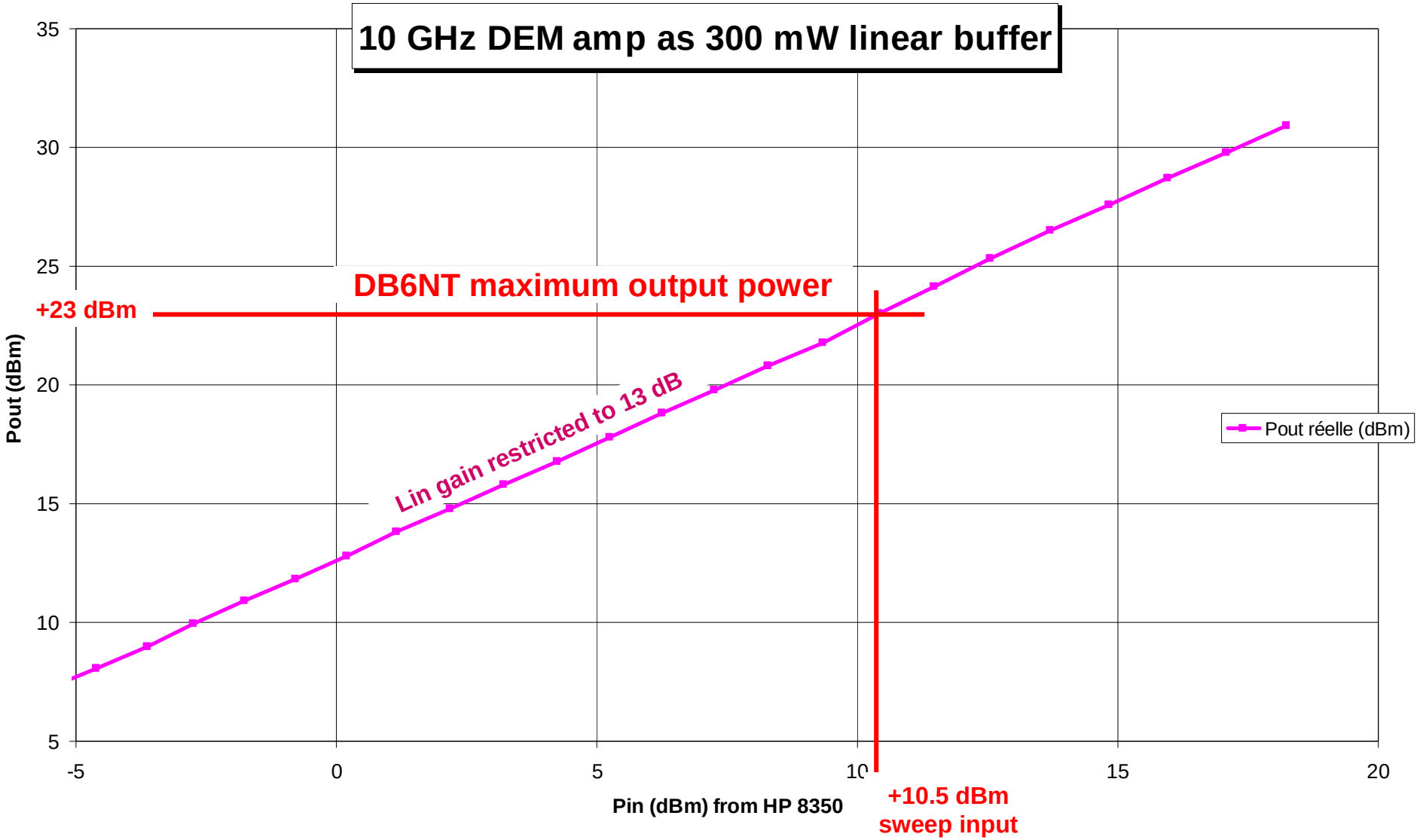
- The HP 8350b + HP 83590a RF plugin is only able to give +17 dBm max leveled power

- Power of a DB6NT transverter à 10 GHz only restricted to +23 dBm max output

Buffer for HP 8350 sweep



Buffer for HP 8350 sweep : Pout versus Pin



Buffer for HP 8350 sweep : complete working set