

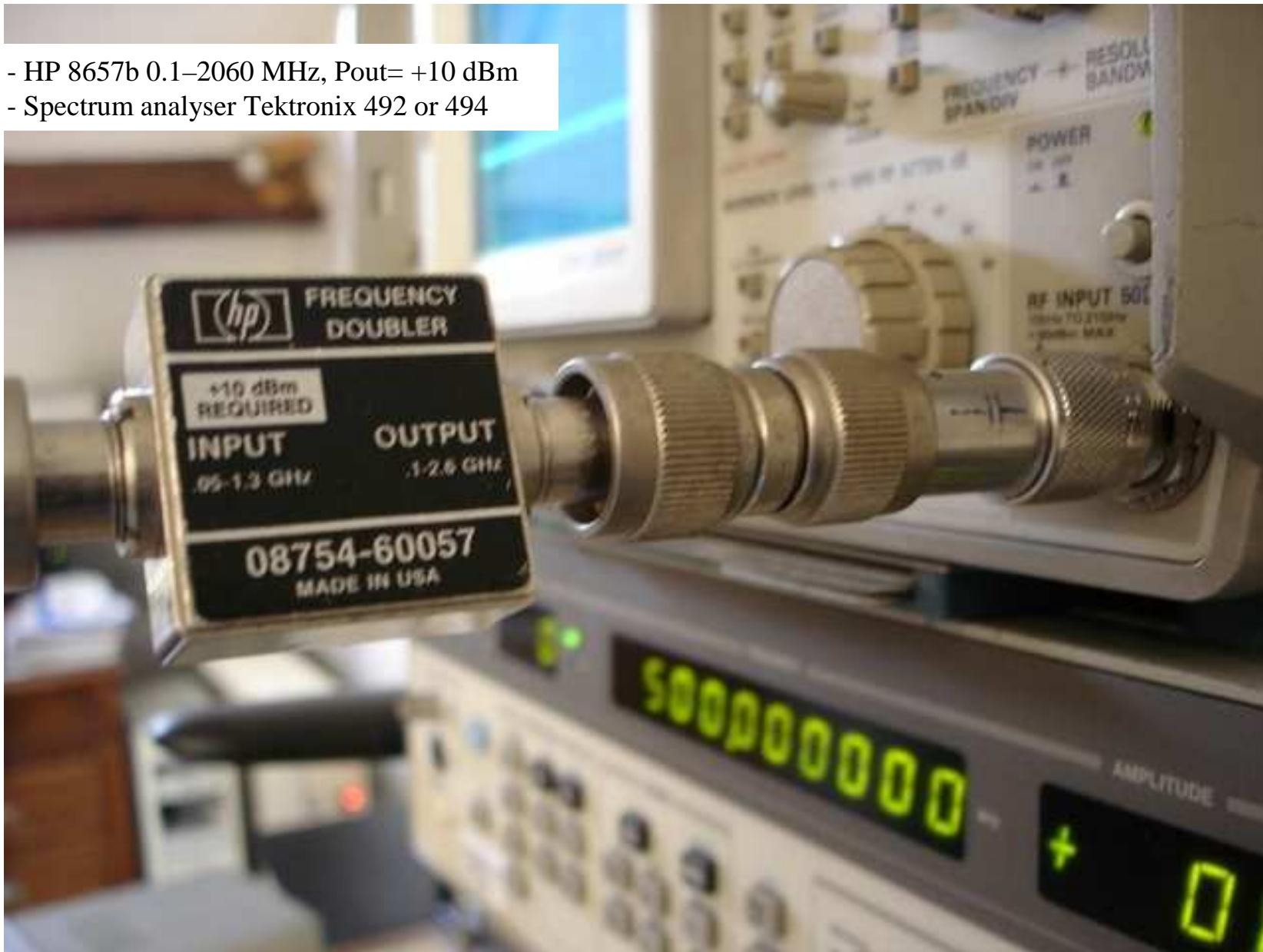
HP 08754-60057

frequency Doubler

The easy way getting 2.3, 5.7 or 10.368 GHz QRP reference sigs

1- Measurement test-set

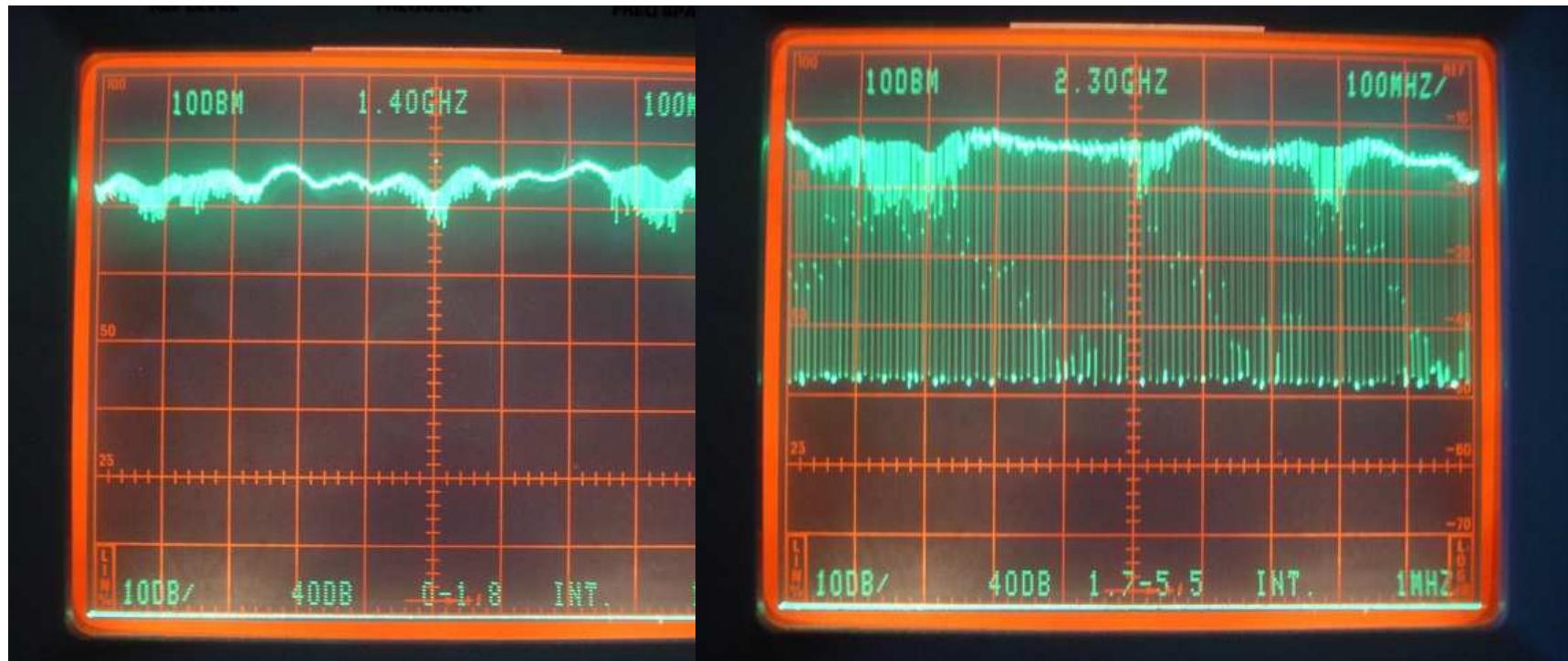
Measurement test set



2- Doubler measurements

Wide-band doubler meas from 0.9 to 2.8 GHz

Fin from 450 MHz to 1.4 GHz, Pin= + 10 dBm
-10 < Pout < 0 dBm



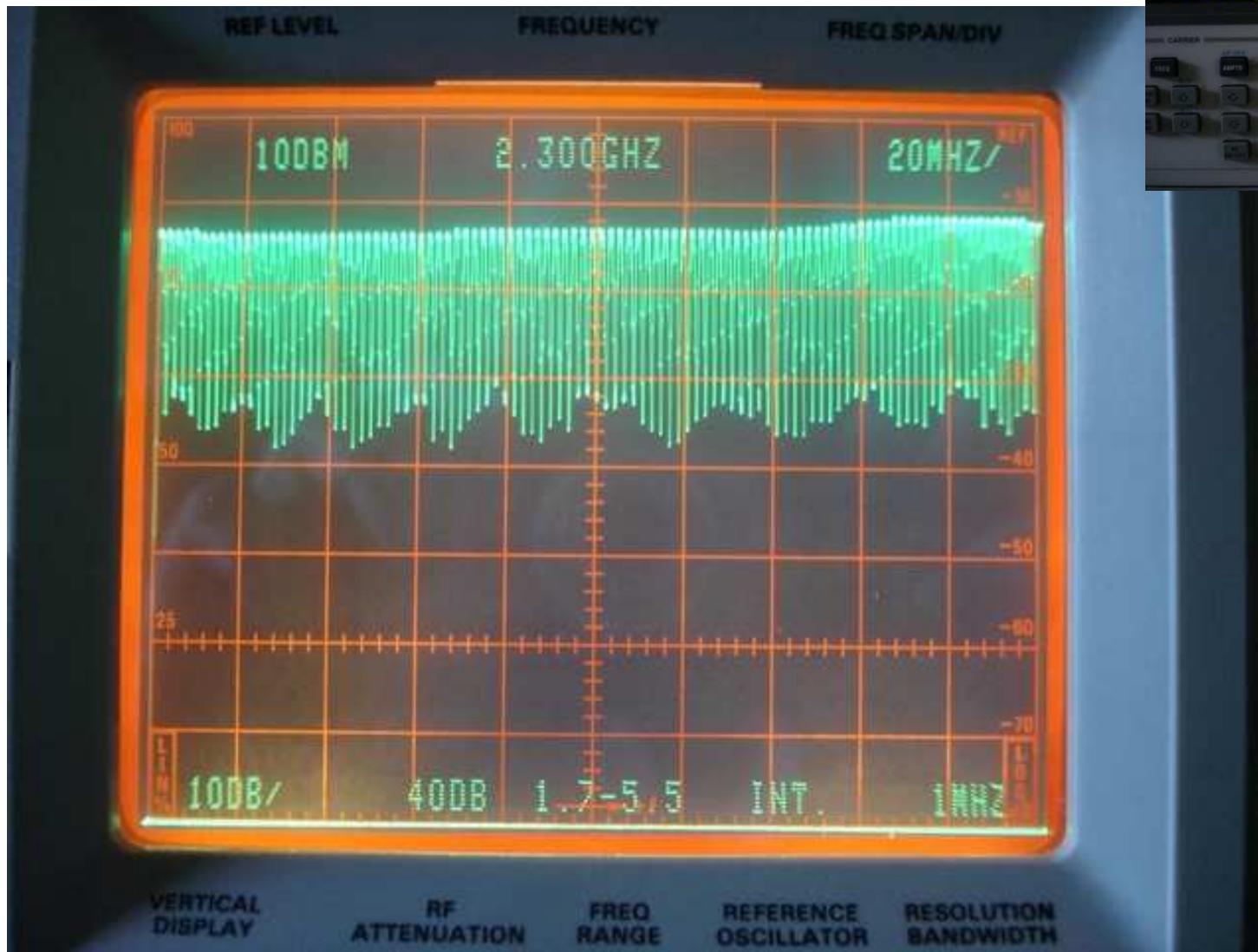
Specified for 0.1 – 2.6 GHz output

3- 2.3 GHz doubler

2.3 GHz doubler

Fin= 1150 MHz, Pin = +10 dBm

Pout = +3 dBm

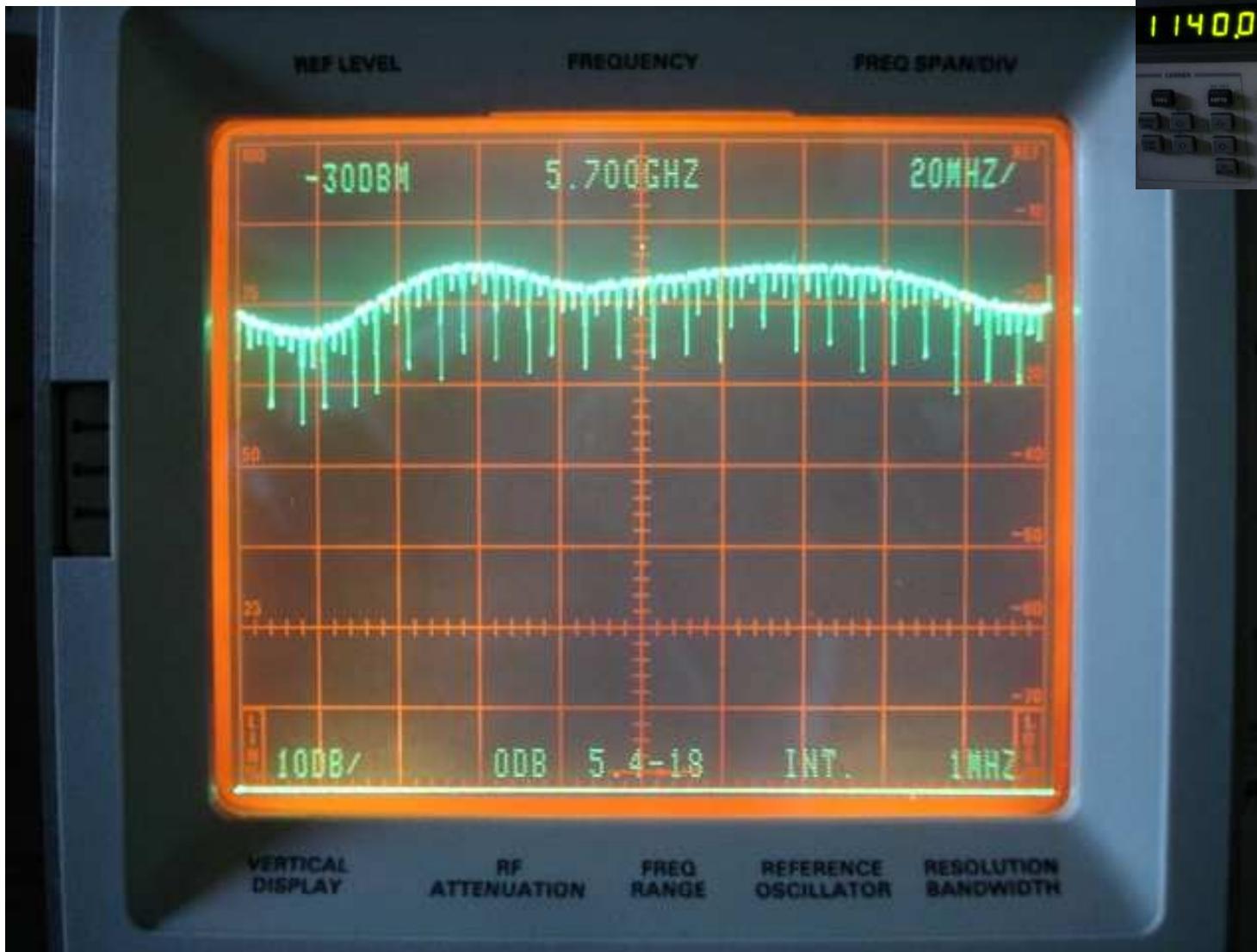


4- 5.7 GHz x5 multiplier

5.7 GHz x5 multiplier

Fin= 1140 MHz, Pin +10 dBm

Pout = -45 to -48 dBm

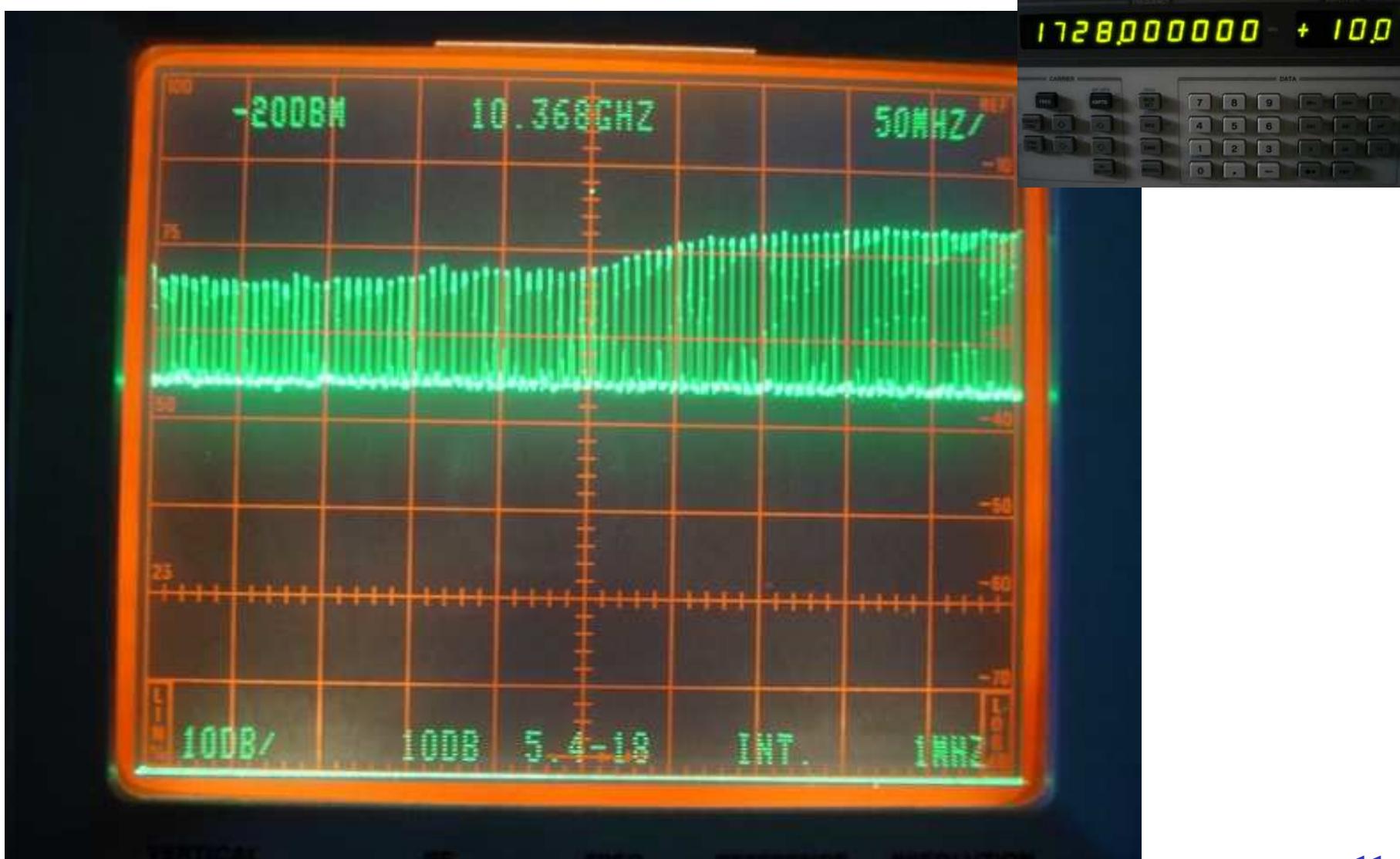


5- 10.368 GHz x6 multiplier

10.368 GHz x6 multiplier

Fin= 1728 MHz, Pin + 10 dBm

Pout = -42 to -38 dBm

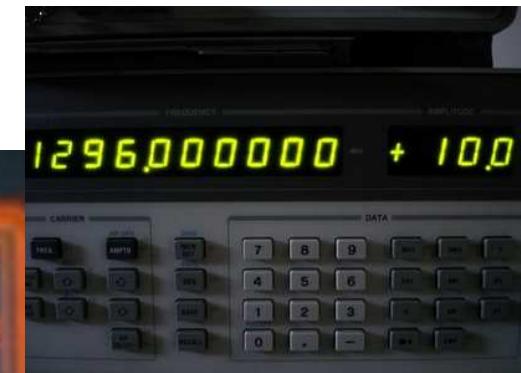
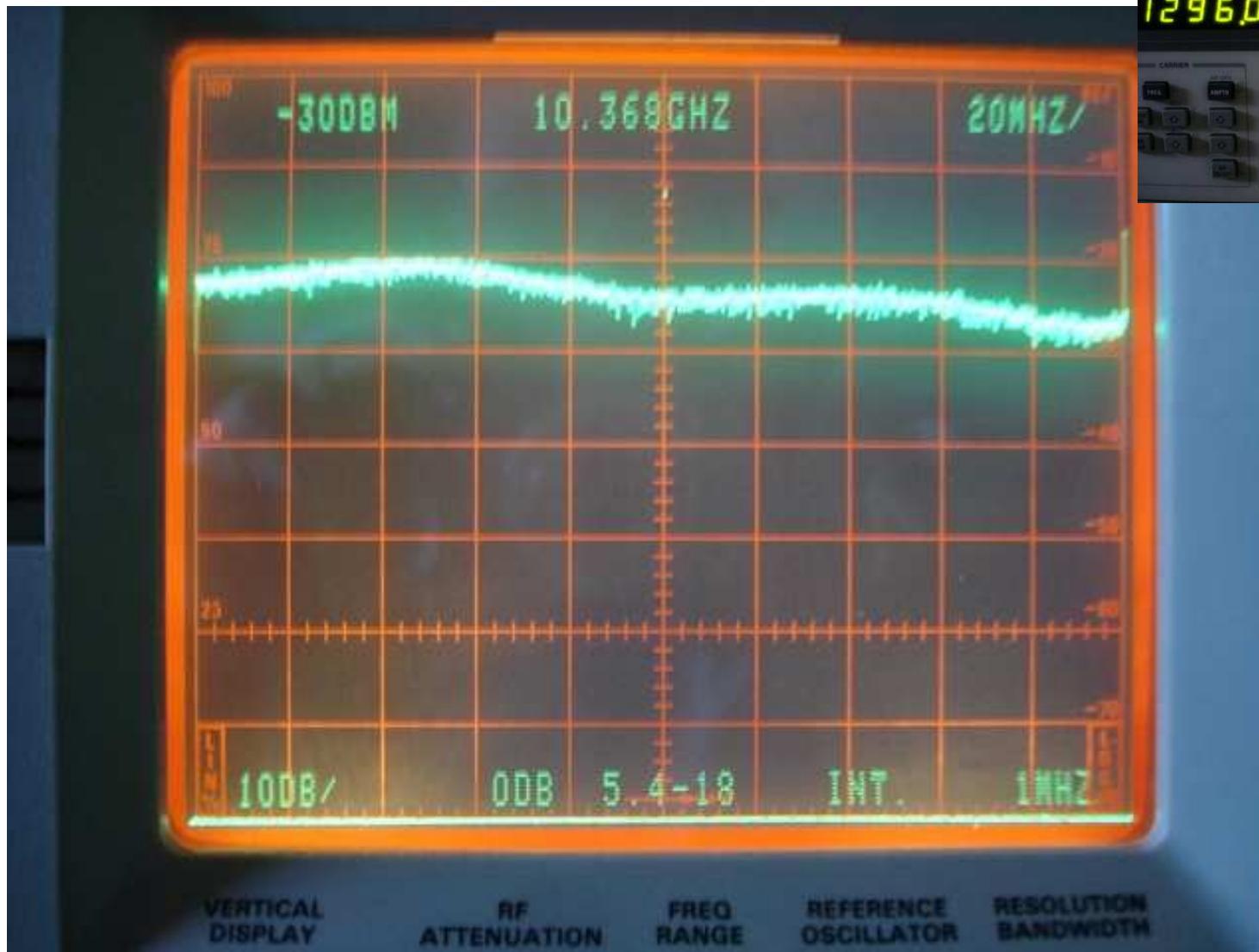


6- 10.368 GHz x8 multiplier

10.368 GHz x8 multiplier

Fin= 1296 MHz, Pin + 10 dBm

Pout = -50 to -56 dBm



7- Conclusion

- An inexpensive and rapid way getting 2.3, 5.7 and 10.368 GHz QRP références for every GHz transverter
- Rx alignment with a 1.3 GHz QRP source or a low-cost synthesizer
- **CAUTION Pin =+ 10 dBm**, not more !!!!