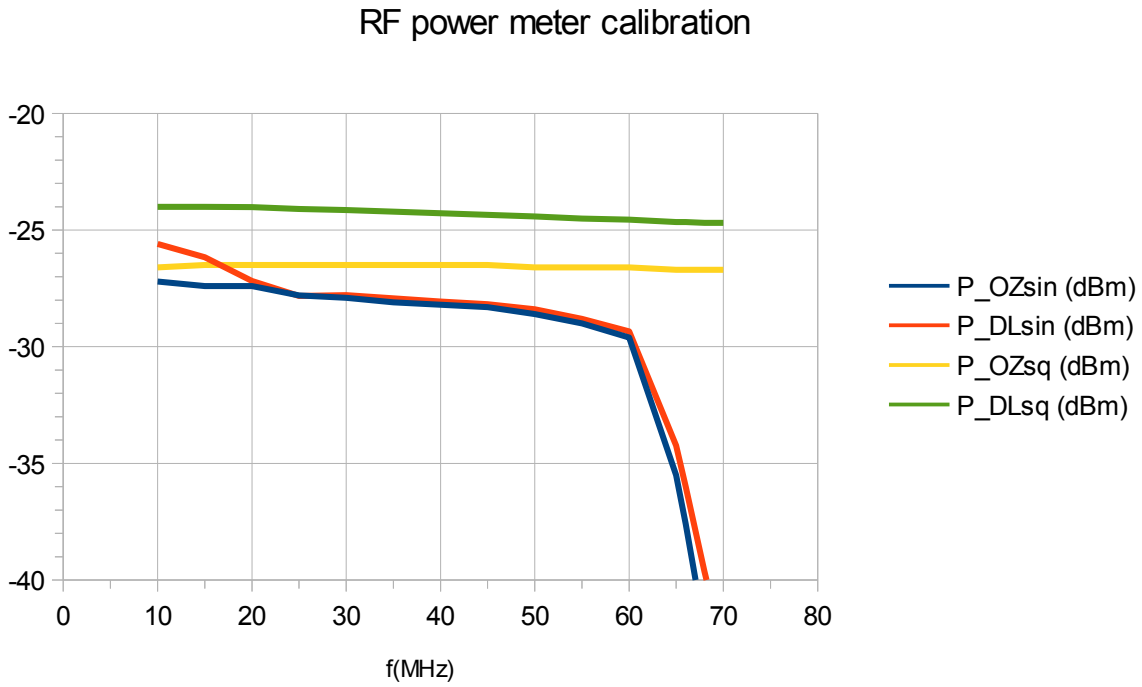
Comparison of two RF power meters - OZ(AD8362) and DL(AD8318)

12.06.2018, S53DZ

Rfgen = PA0KLT RF generator from 3,5 MHz up to 945 MHz
OZ = RF power meter 1 by OZ2CPU with AD8362 (S53DZ) sensor.
DL = RF power meter 2 by DL2SBA with AD8318 sensor.

1. measurement: sin - Input is sine wave signal from (RFgen(_--_) + LPF 60 MHz)
2. measurement: sq - Input is square wave signal from (RFgen)



Comparison of the results shows the difference in displayed power (dBm) when the input signal is sine wave and different from sine wave (square).

The AD8362 (OZ) sensor is squaring (x^2) the input signal then comes the logarithm, whereas the AD8318 (DL) sensor uses peak detection and then logarithm.

Split lines at 20 MHz are caused by the LPF with cut frequency at about 60 MHz.