#### Initial measurements of UHSDR DDC board v1.0.

SP9BSL, October 2019.

1. Comparision the level meter readings in different places of 1st Nyquist zone, 2nd and 3rd. ADC fsampling=122.88MHz.

Methodology of measurements: dBm set to -73dB at 3.72MHz and not changed for other frequencies. ADC driver aplification: 23dB, attenuator: 0dB, LNA: off, signal source: N2PK with 50dB attenuator.

### a. 3.719MHz (1st Nyquist zone)



## b. 50.001MHz





3.720.000

18:48:02

3.68 V

10082

26

3.720.000 \*\*\*

## c. 70.001MHz





### d. 145.001MHz





# 2. Antialias filter responses and return loss (S21, S11). a. LPF 52MHz





b. BPF 4m









and wideband view S21 of 2m BPF:



Conclusions:

1. Need separate dBm adjustment for different Nyquist zones and 6m band (caused by sinx/x phenomenon).

2. For VHF S-meter has different dBm levels - need to implement this in firmware (S9 for HF: -73dBm, S9 for VHF: -93dBm).