ANALYSIS OF NANOVNA V2 PERFORMANCE AND THE IMPACT OF HARDWARE CHANGES TO UPGRADE TO V2 PLUS

ea4bfk@gnail.com

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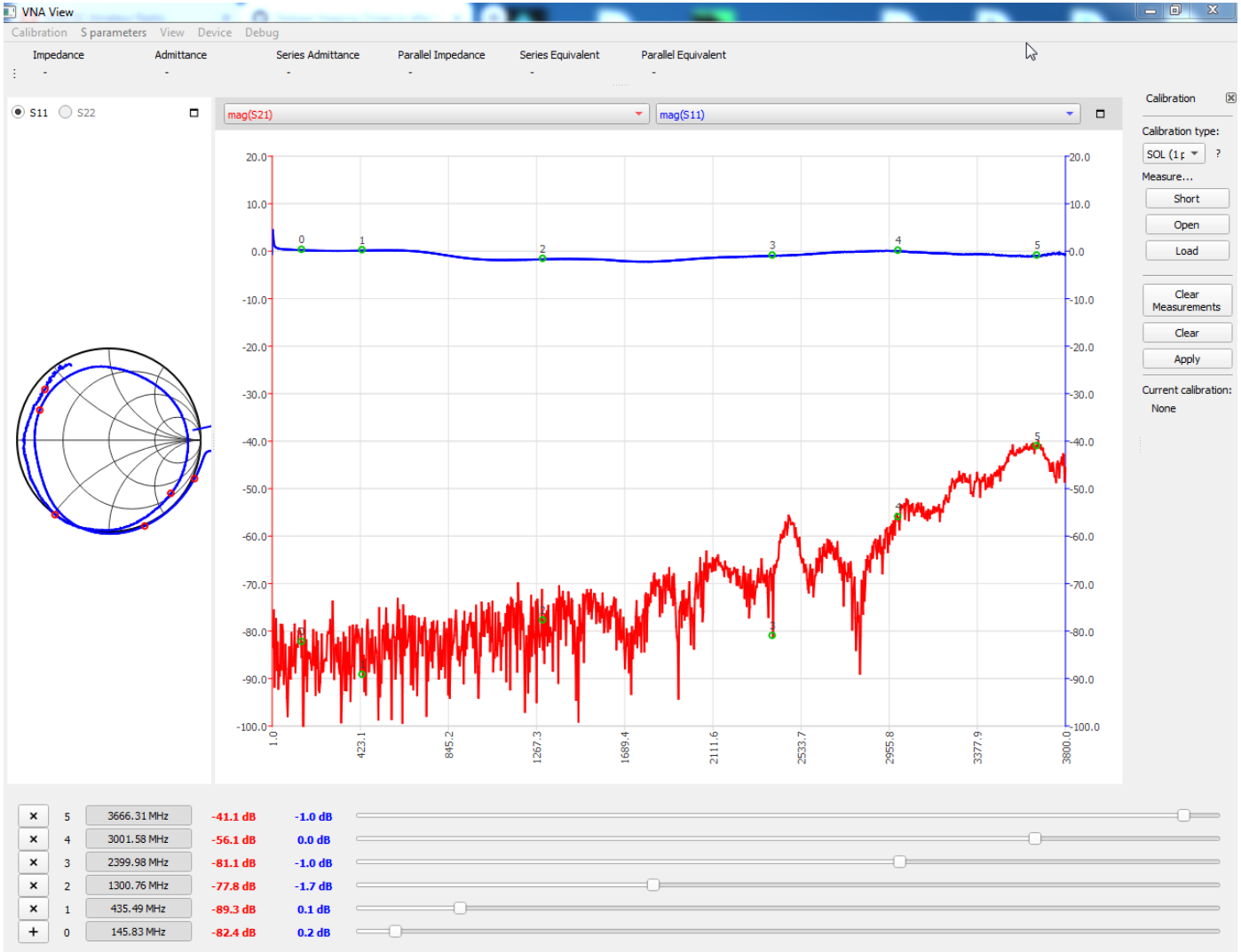
Here bellow the measurements done in different situations with VNA-QT

1.- nano VNA v2, with 4" Display original but boxed in a Hammond metal case (see final picture) without hardware changes

Firmware_: 4inch_binary-st7796.bin from June 2020

Range: 1 - 3800 MHZ

1024 points Not calibrated

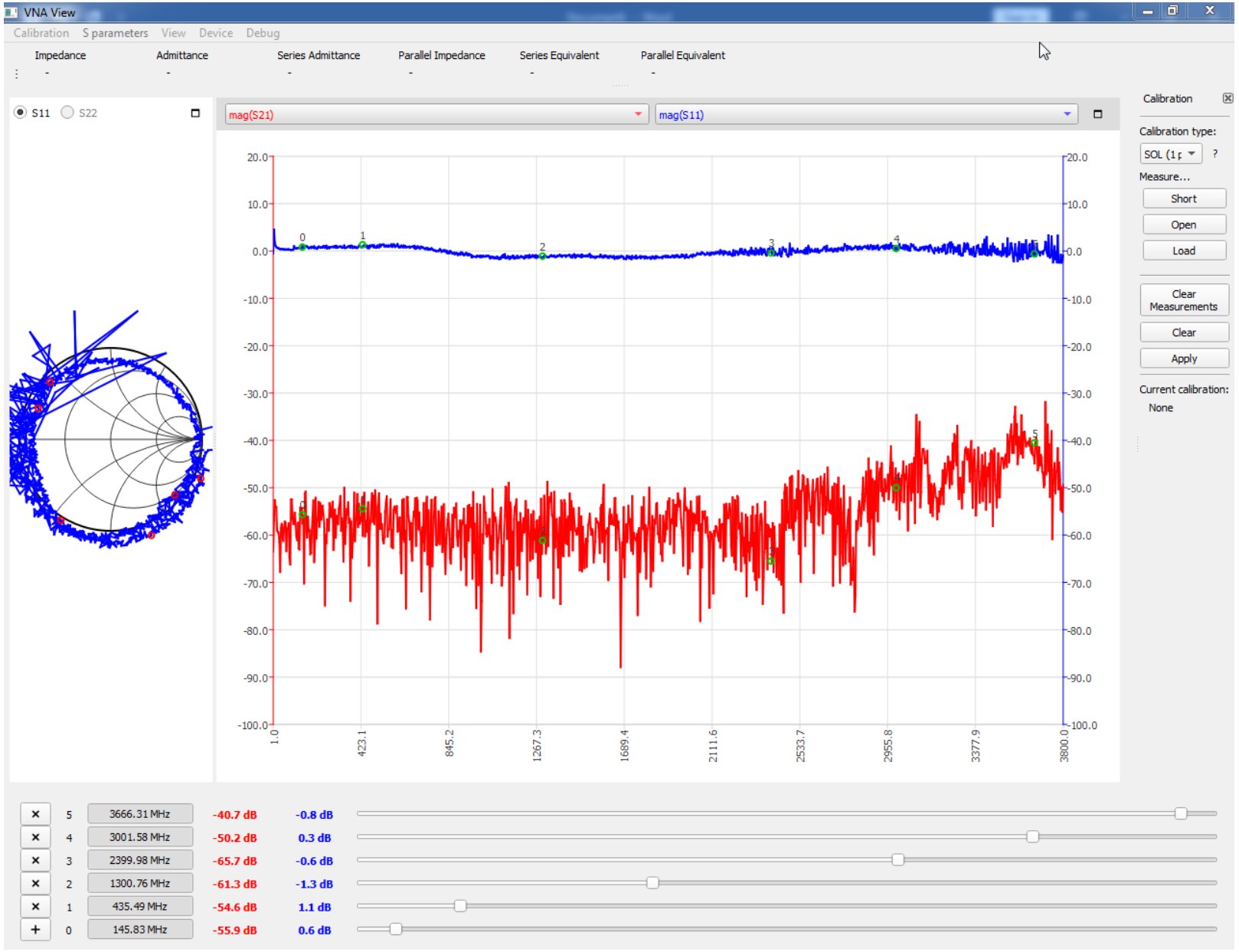


2.- nano VNA v2, with 4” Display original but boxed in a Hammond metal case (see final picture) without hardware changes

Firmware_: nanovna-v2-20201013-v2plus-st7796.bin

Range: 1 - 3800 MHZ

1024 points Not calibrated



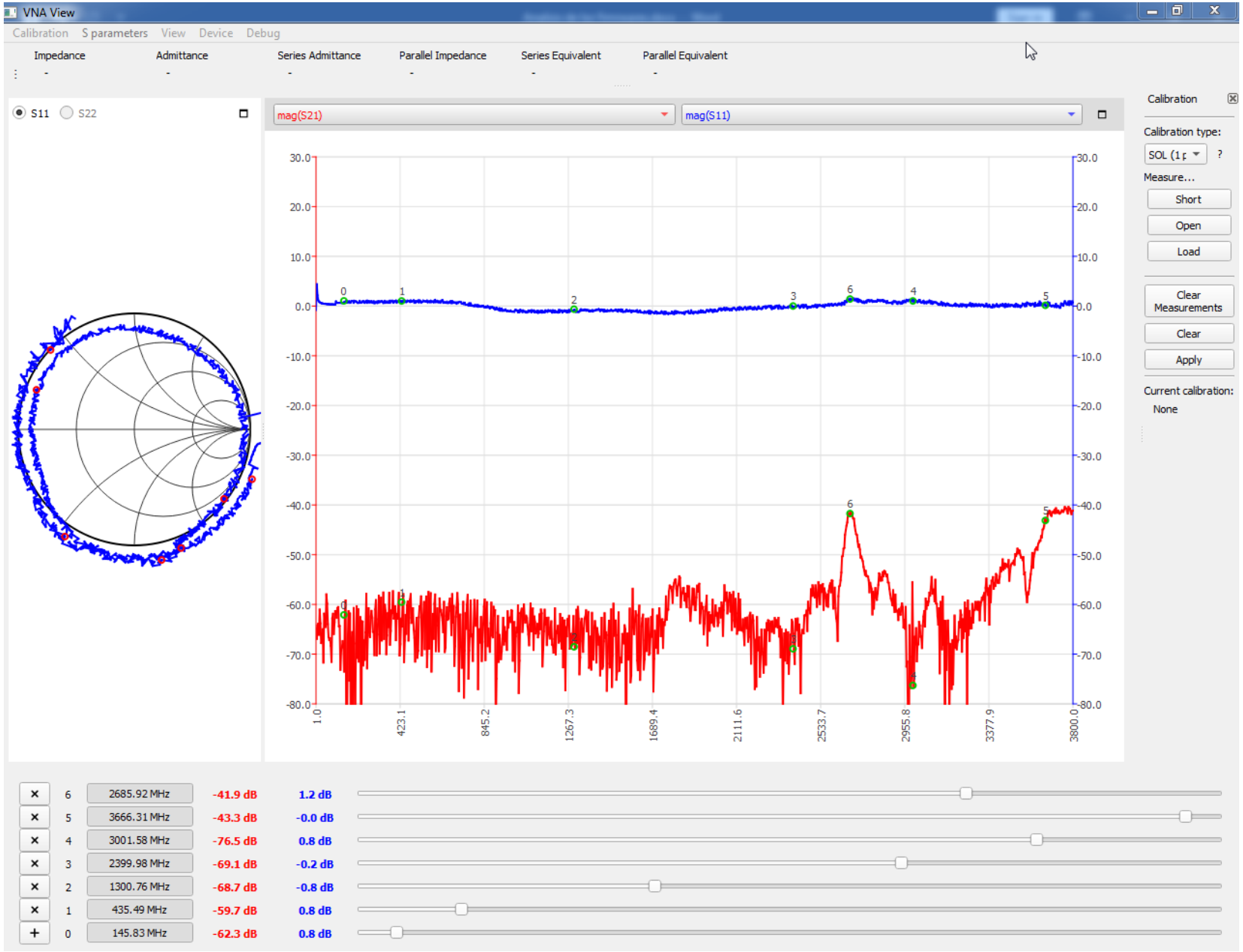
3.- nano VNA v2, with 4” Display original but boxed in a Hammond metal case (see final picture) including hardware changes (Resistor + 2 Capacitors)

Firmware_: nanovna-v2-20201013-v2plus-st7796.bin

Range: 1 - 3800 MHZ

1024 points Not calibrated

With Hardware modification

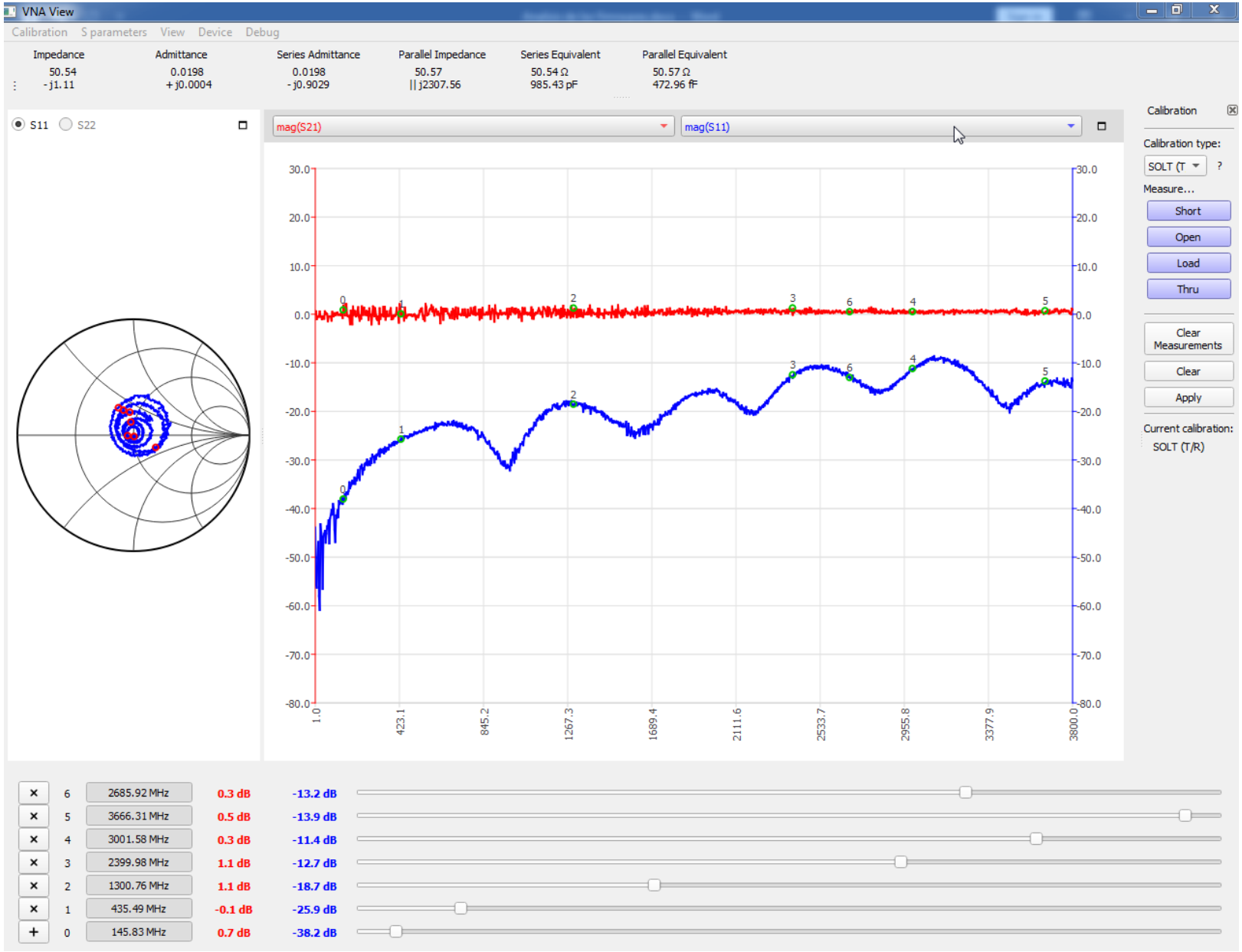


4.- nano VNA v2, with 4” Display original but boxed in a Hammond metal case (see final picture) including hardware changes (1 Resistor + 2 Capacitors)

Firmware_: nanovna-v2-20201013-v2plus-st7796.bin

Range: 1 - 3800 MHZ

1024 points – Calibrated and with Trough connected

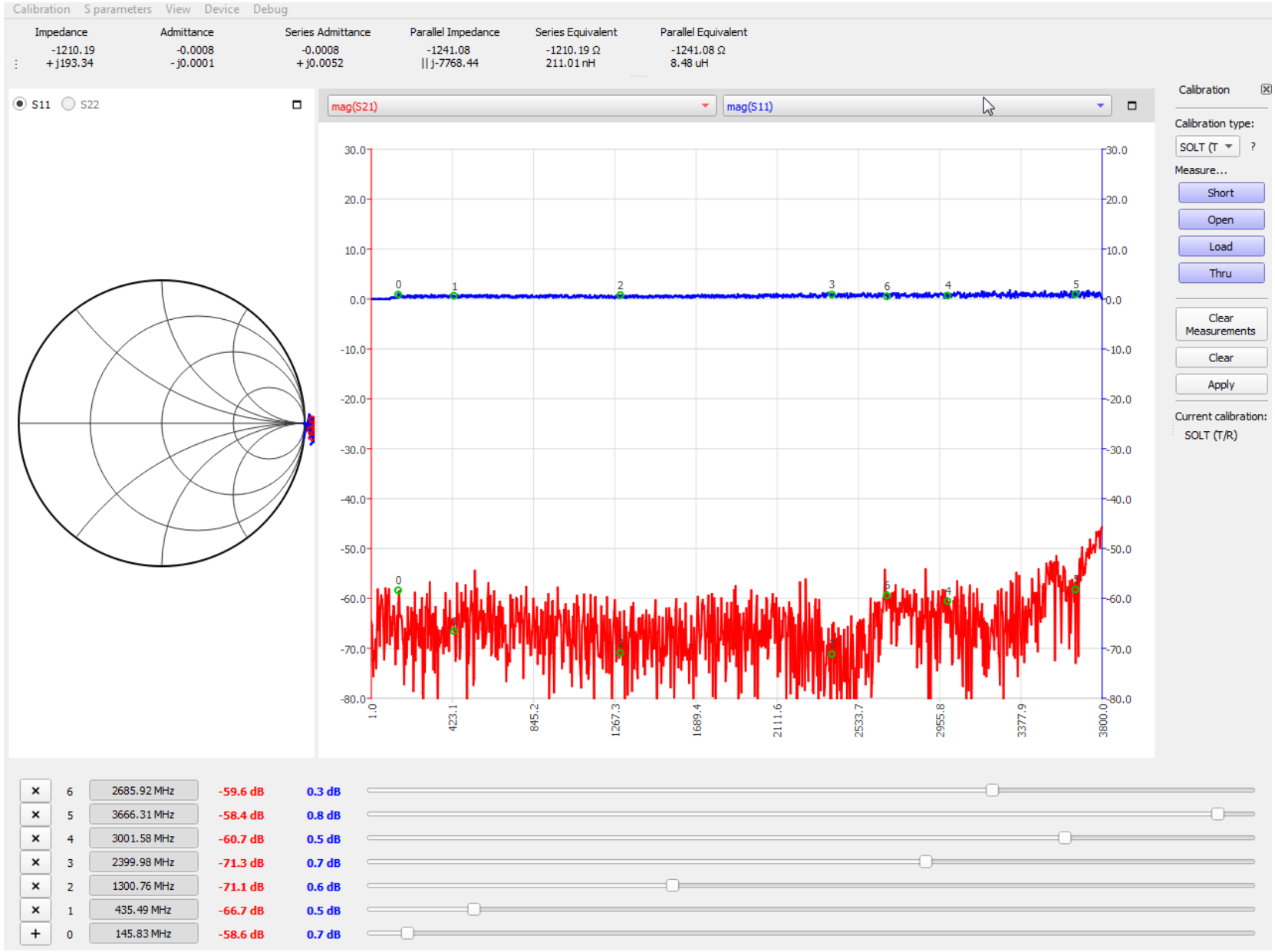


5.- nano VNA v2, with 4” Display original but boxed in a Hammond metal case (see final picture) including hardware changes (1 Resistor + 2 Capacitors)

Firmware_: nanovna-v2-20201013-v2plus-st7796.bin

Range: 1 - 3800 MHZ

1024 points – Calibrated - Open

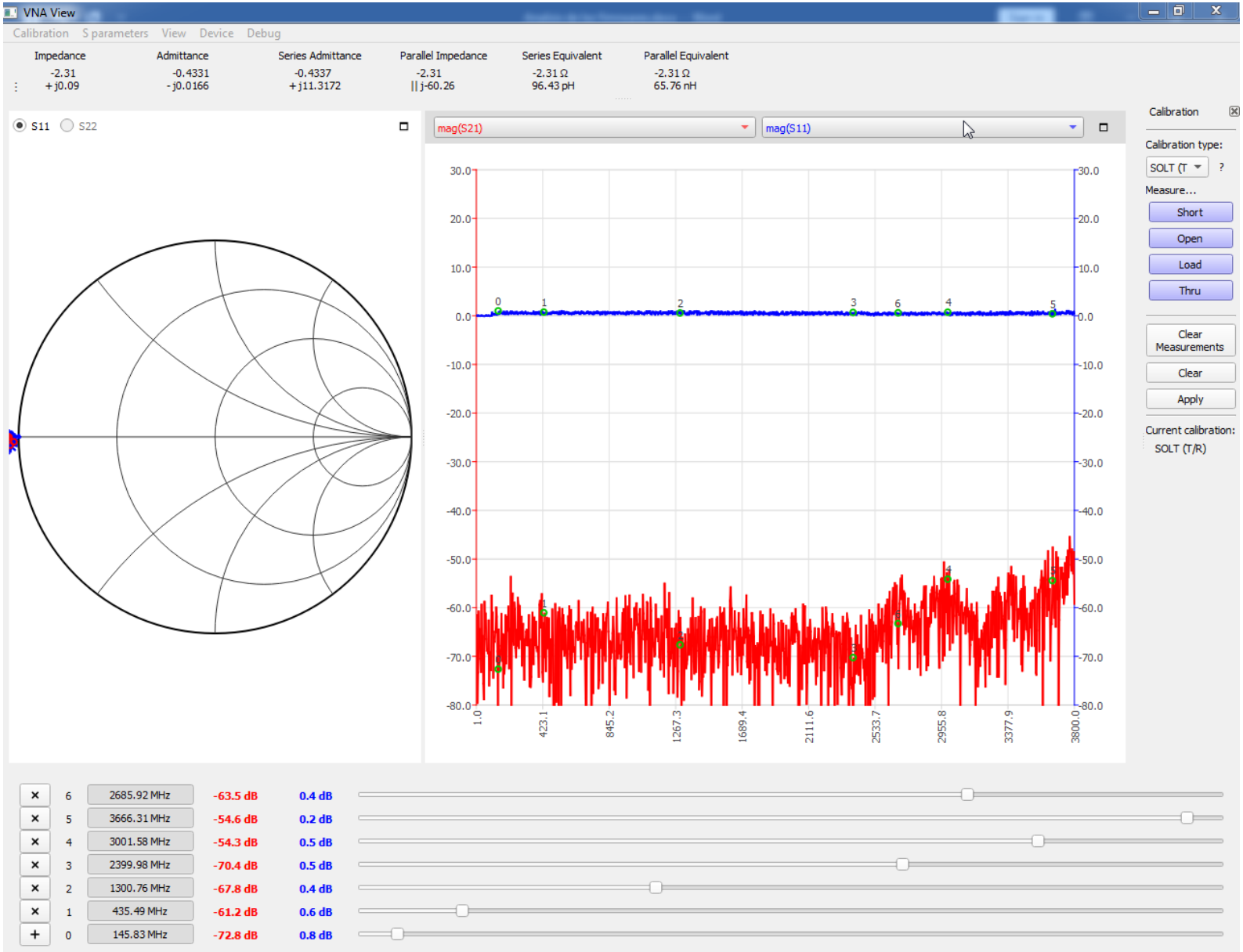


5.- nano VNA v2, with 4” Display original but boxed in a Hammond metal case (see final picture) including hardware changes (1 Resistor + 2 Capacitors)

Firmware_: nanovna-v2-20201013-v2plus-st7796.bin

Range: 1 - 3800 MHZ

1024 points – Calibrated - Short

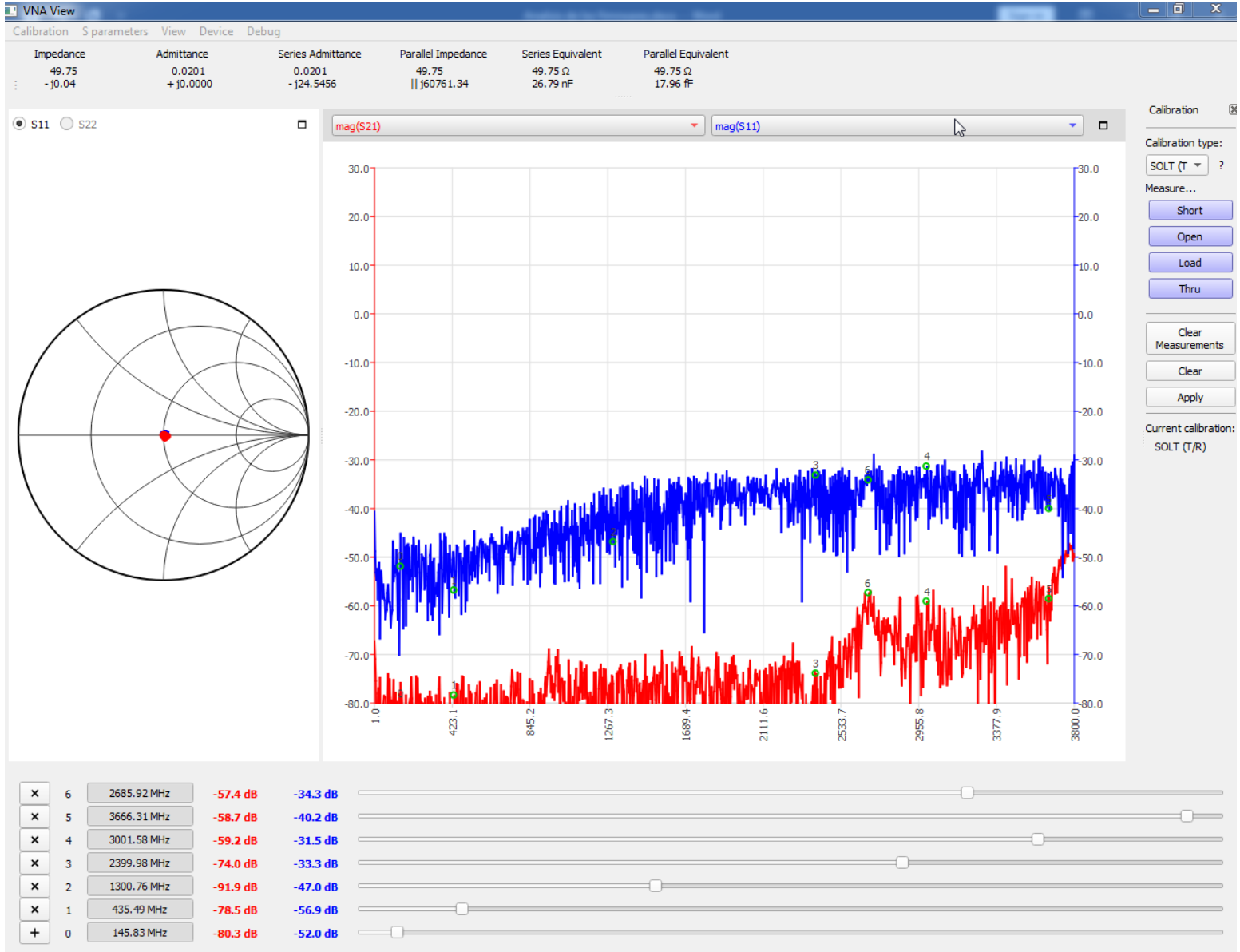


6.- nano VNA v2, with 4” Display original but boxed in a Hammond metal case (see final picture) including hardware changes (1 Resistor + 2 Capacitors)

Firmware_: nanovna-v2-20201013-v2plus-st7796.bin

Range: 1 - 3800 MHZ

1024 points – Calibrated – Load



Images of the nanoVNA 2 in Hammond Enclosure