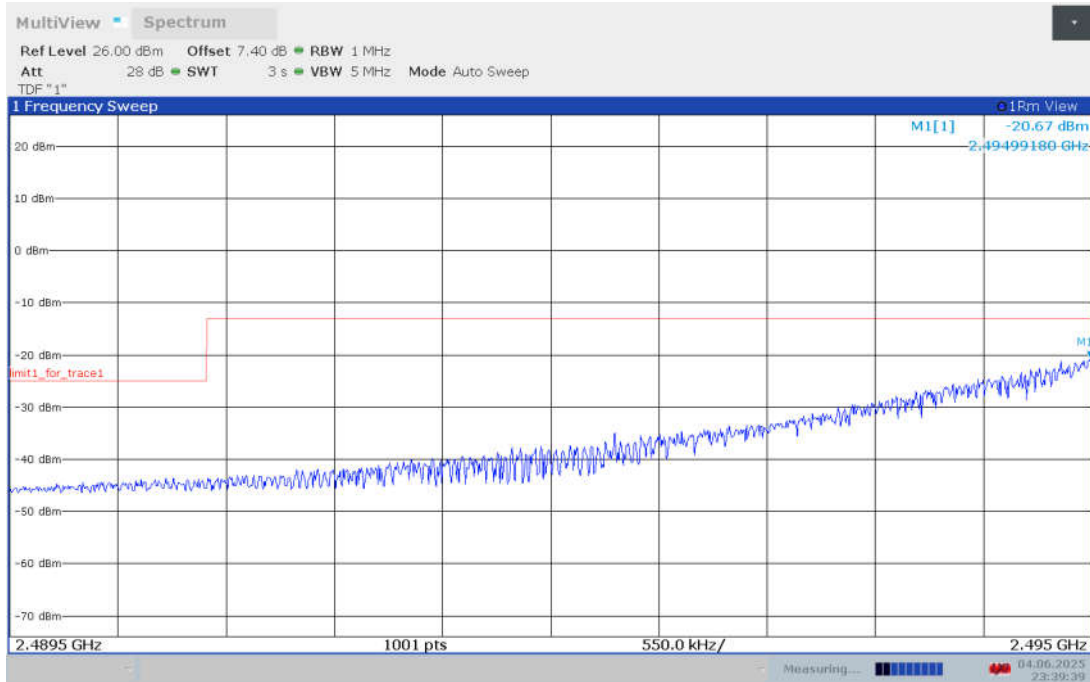
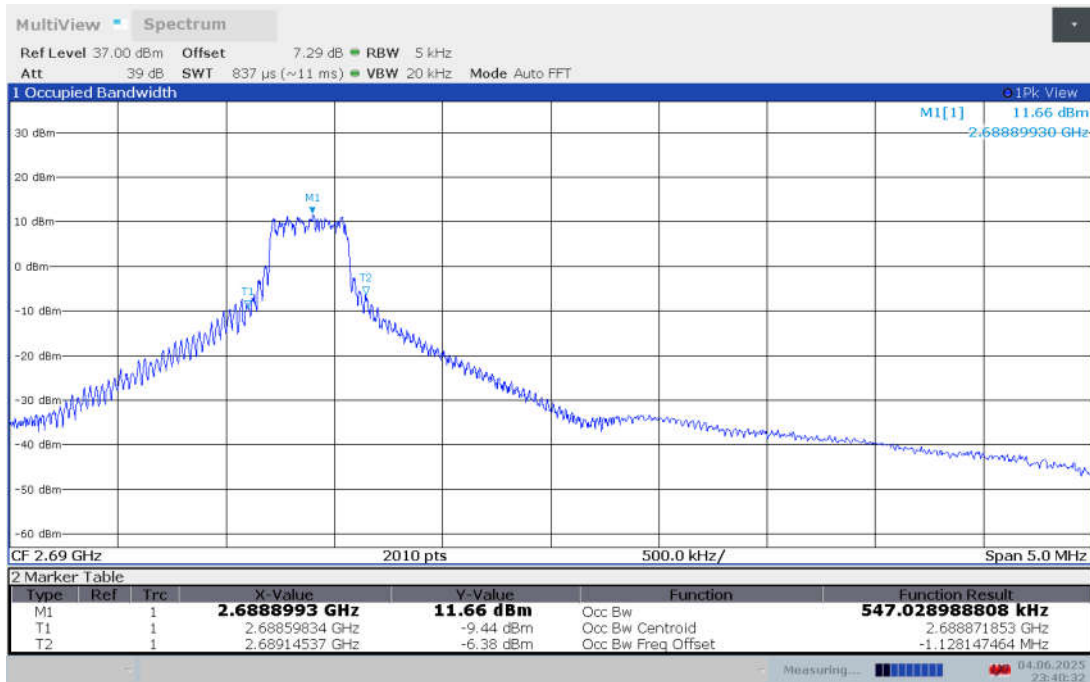


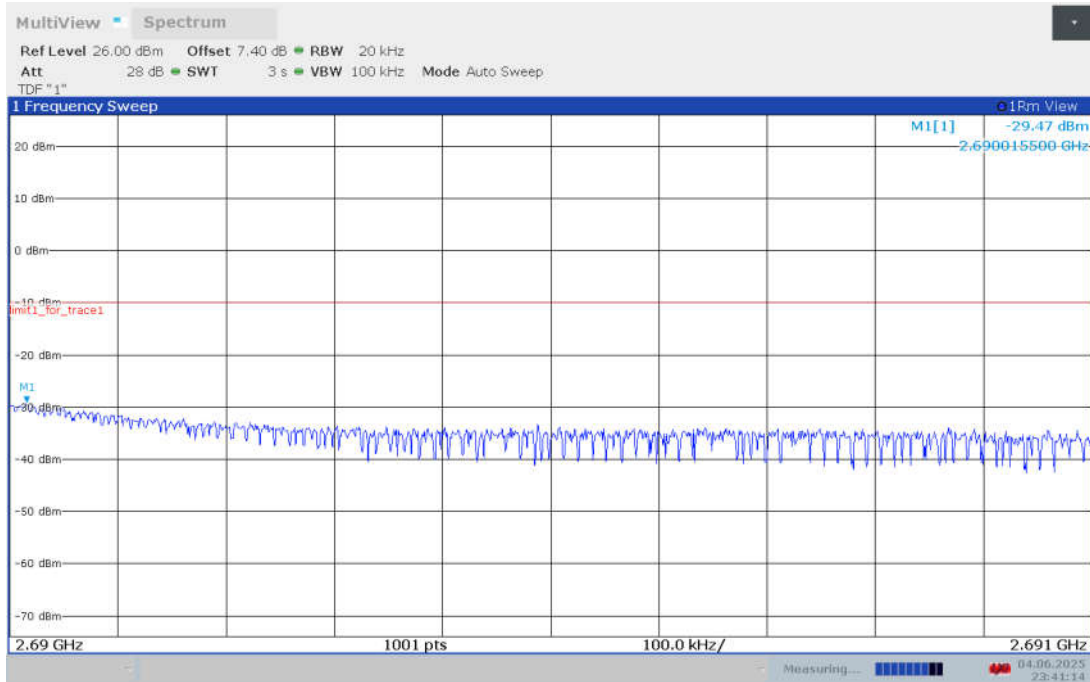
LOW BAND EDGE BLOCK-40MHz-1RB-LOW_offset



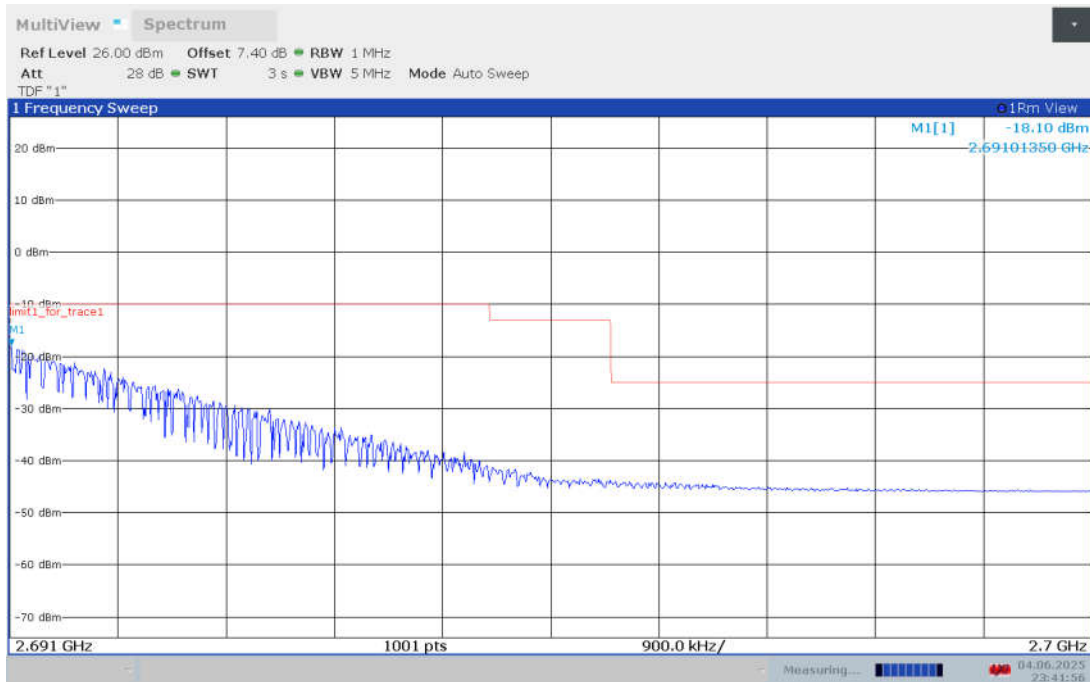
OBW: 1RB-HIGH_offset_40MHz



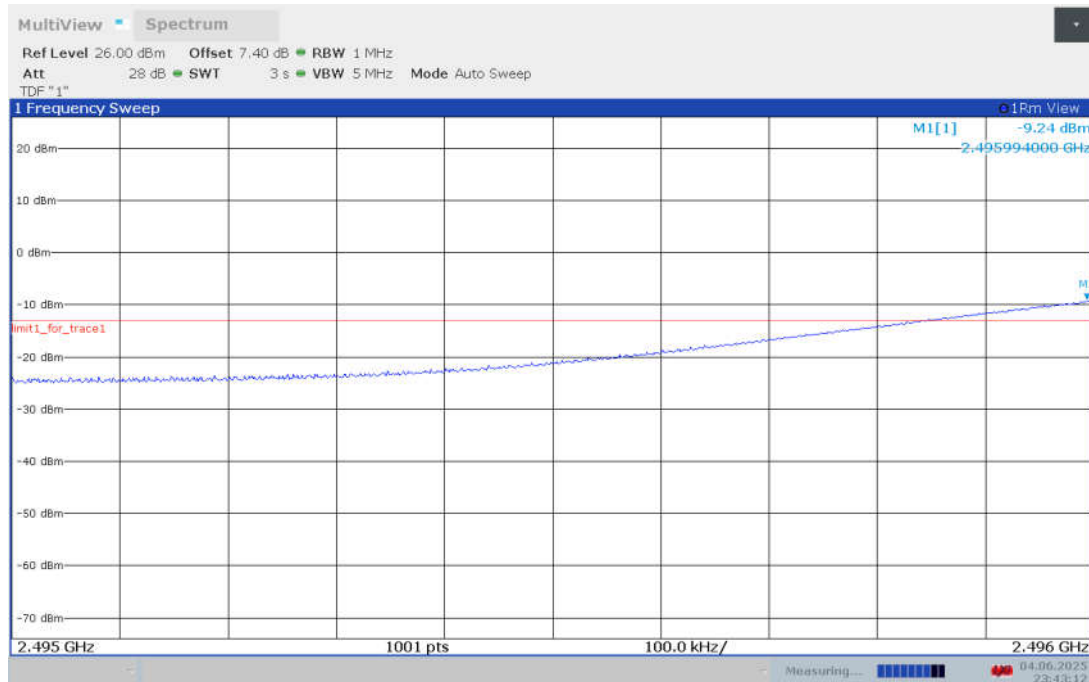
HIGH BAND EDGE BLOCK-40MHz-1RB-HIGH_offset



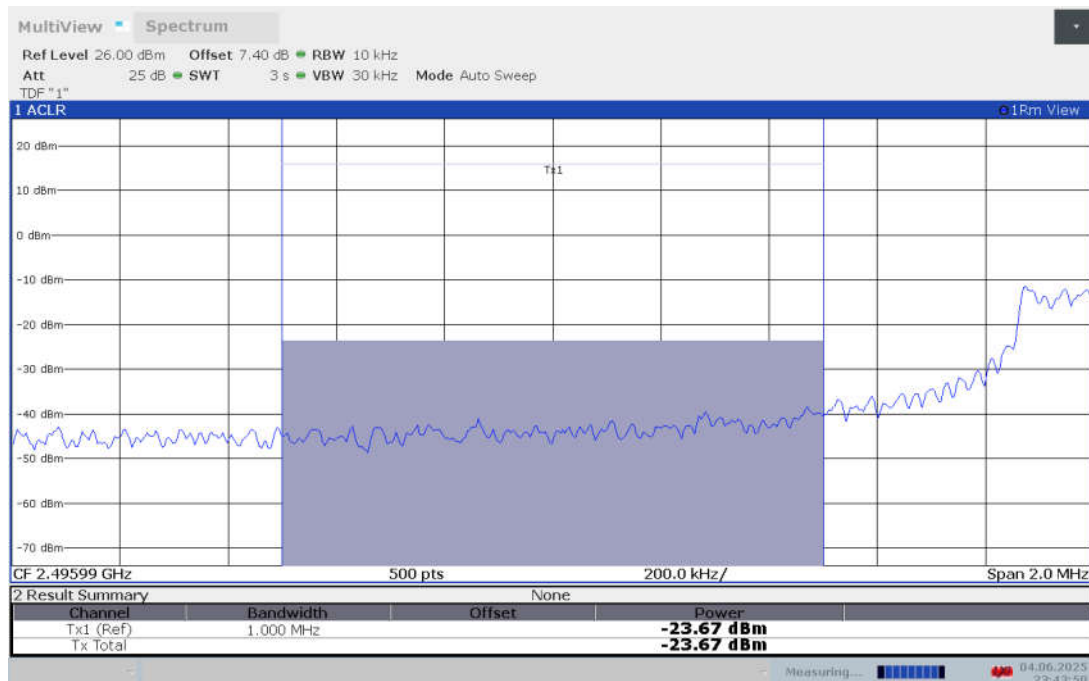
HIGH BAND EDGE BLOCK-40MHz-1RB-HIGH_offset



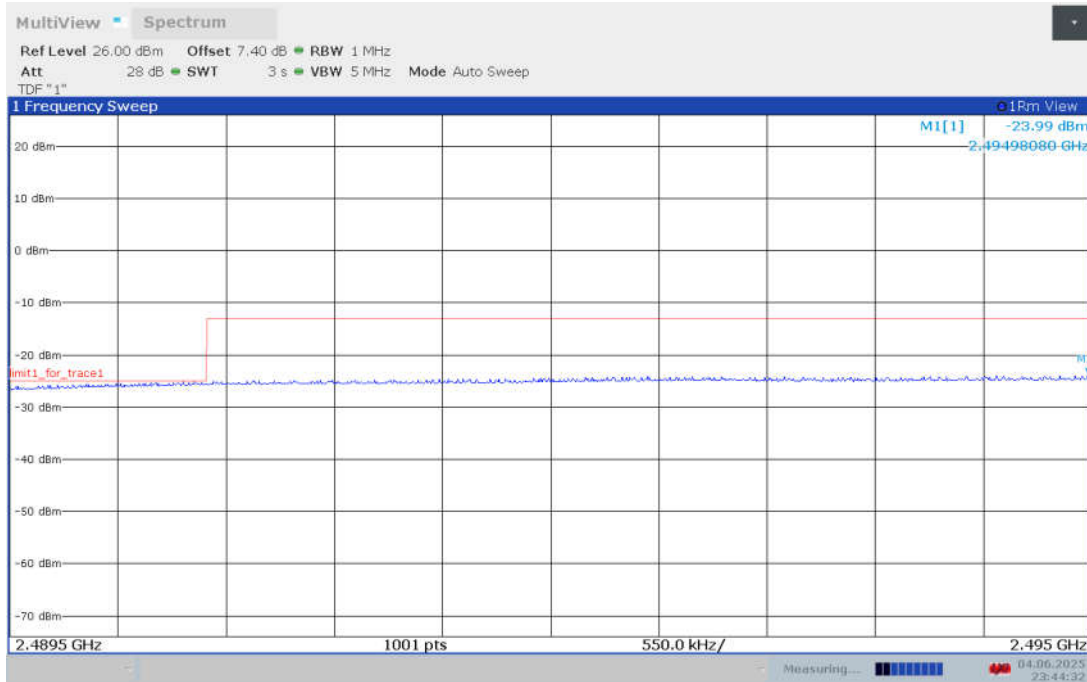
LOW BAND EDGE BLOCK-100MHz-100%RB



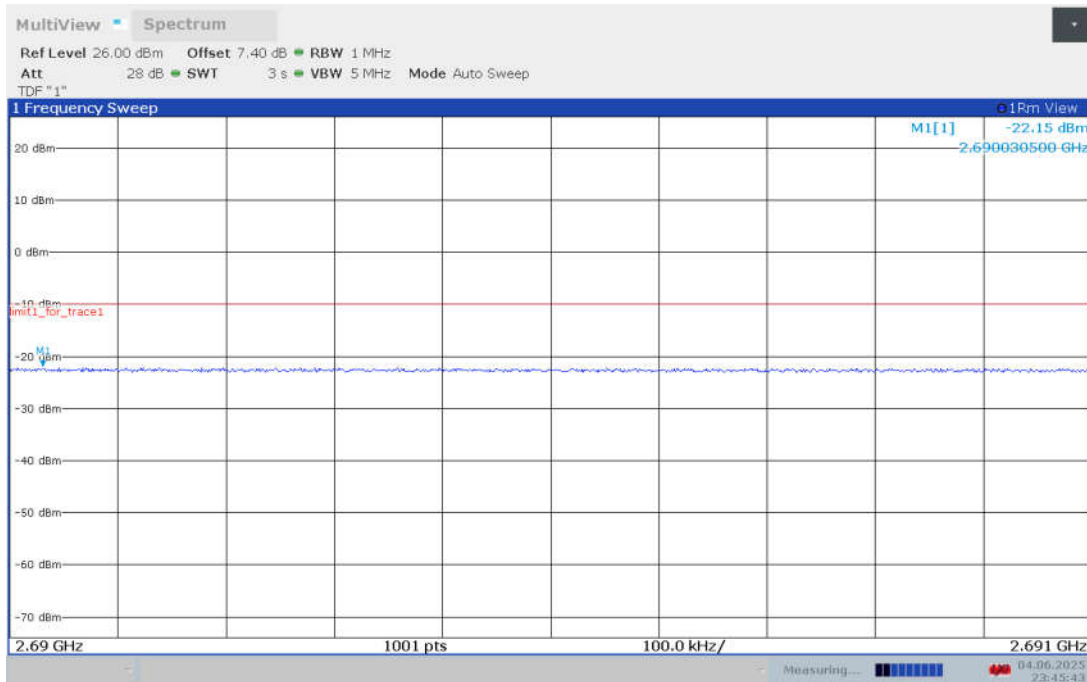
Channel power



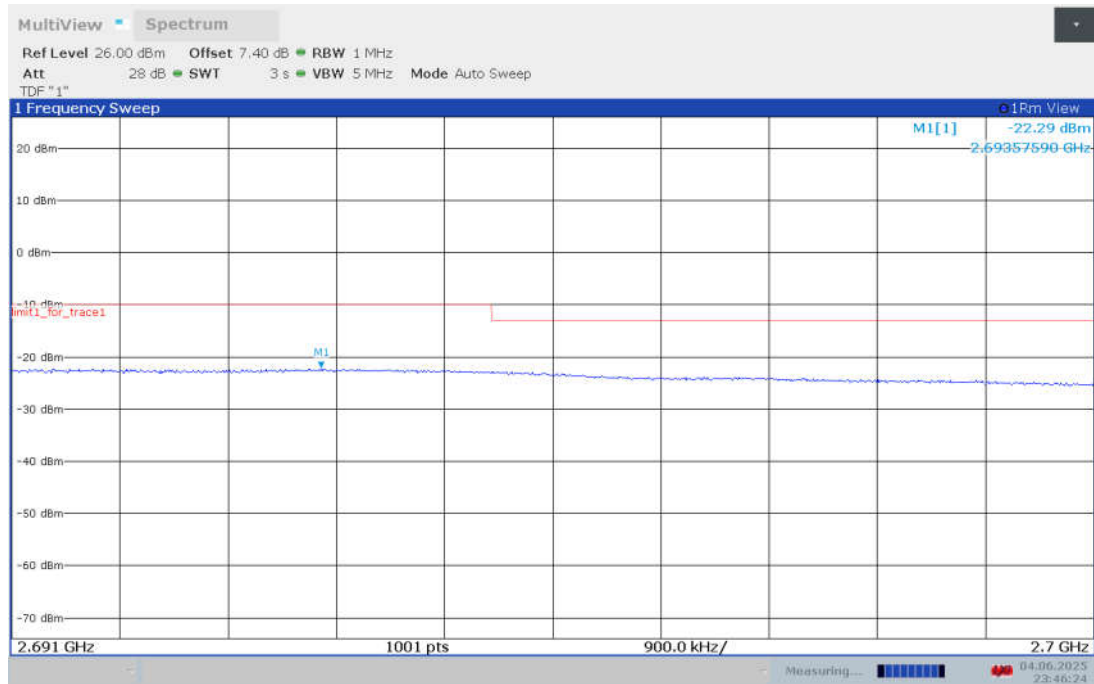
LOW BAND EDGE BLOCK-100MHz-100%RB



HIGH BAND EDGE BLOCK-100MHz-100%RB



HIGH BAND EDGE BLOCK-100MHz-100%RB

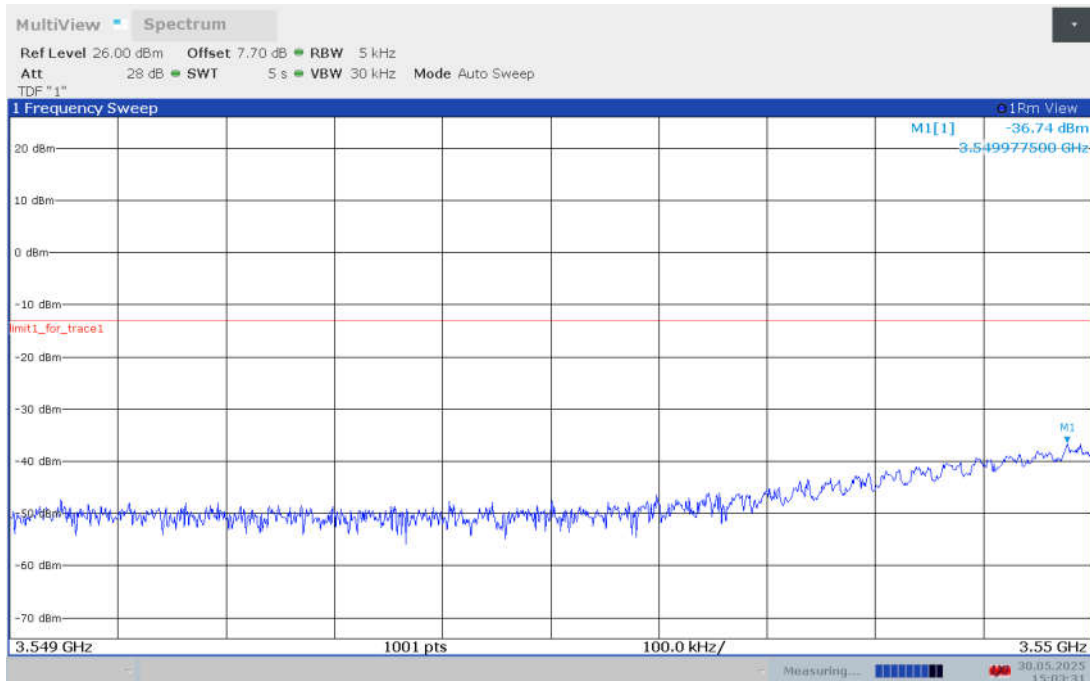


NR n48

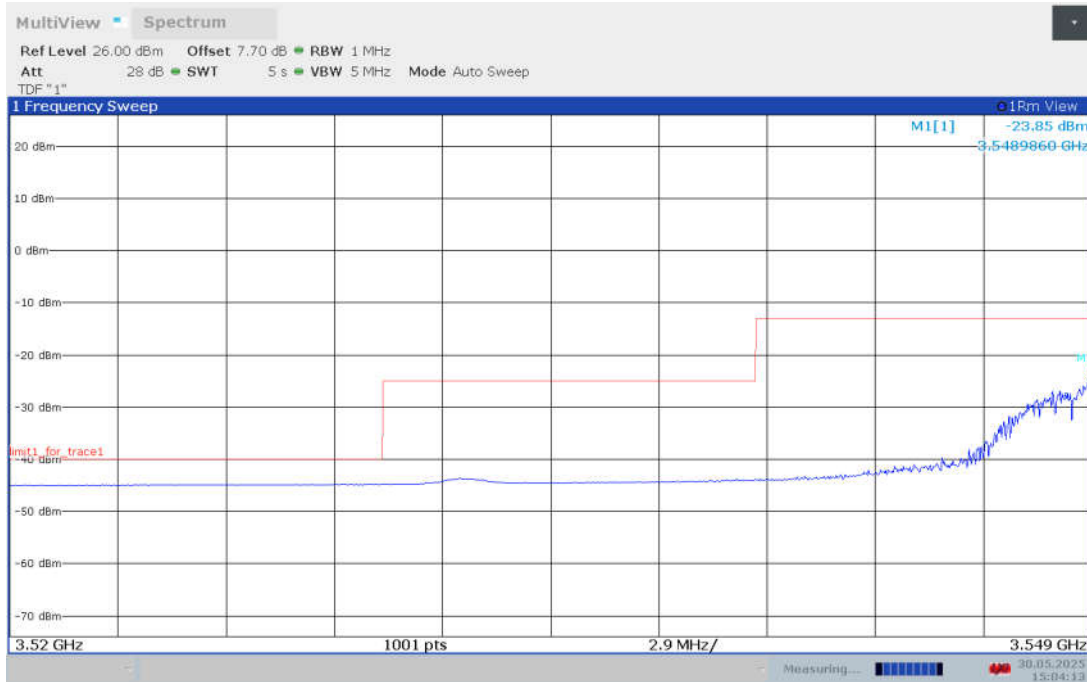
OBW: 1RB-LOW_offset_40MHz



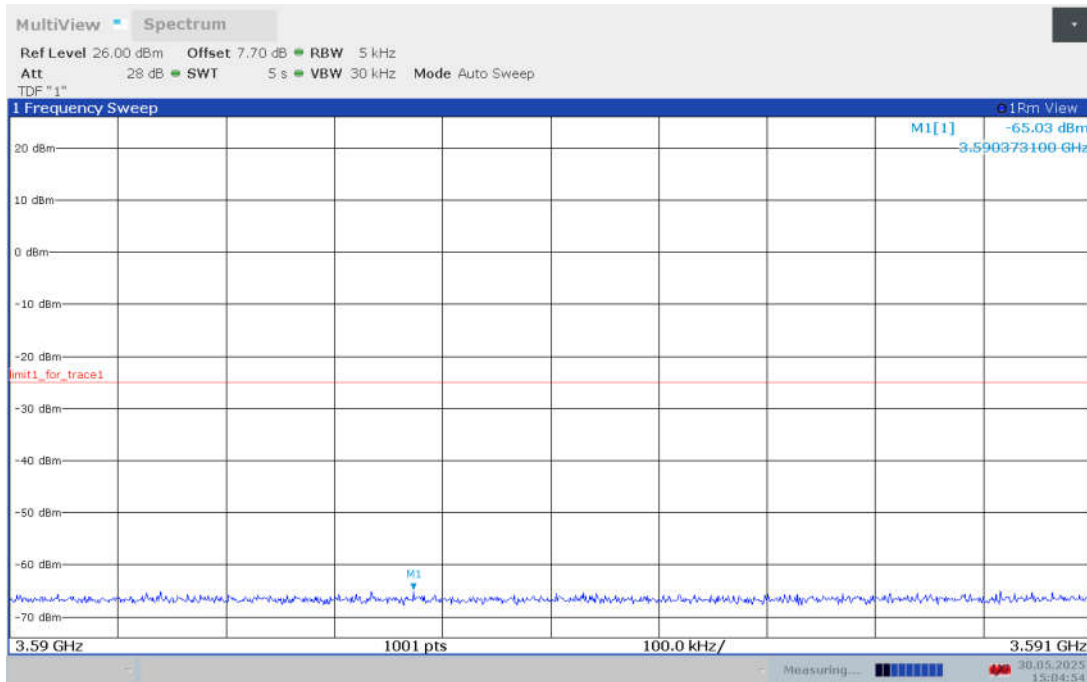
LOW BAND EDGE BLOCK-40MHz-1RB-LOW_offset



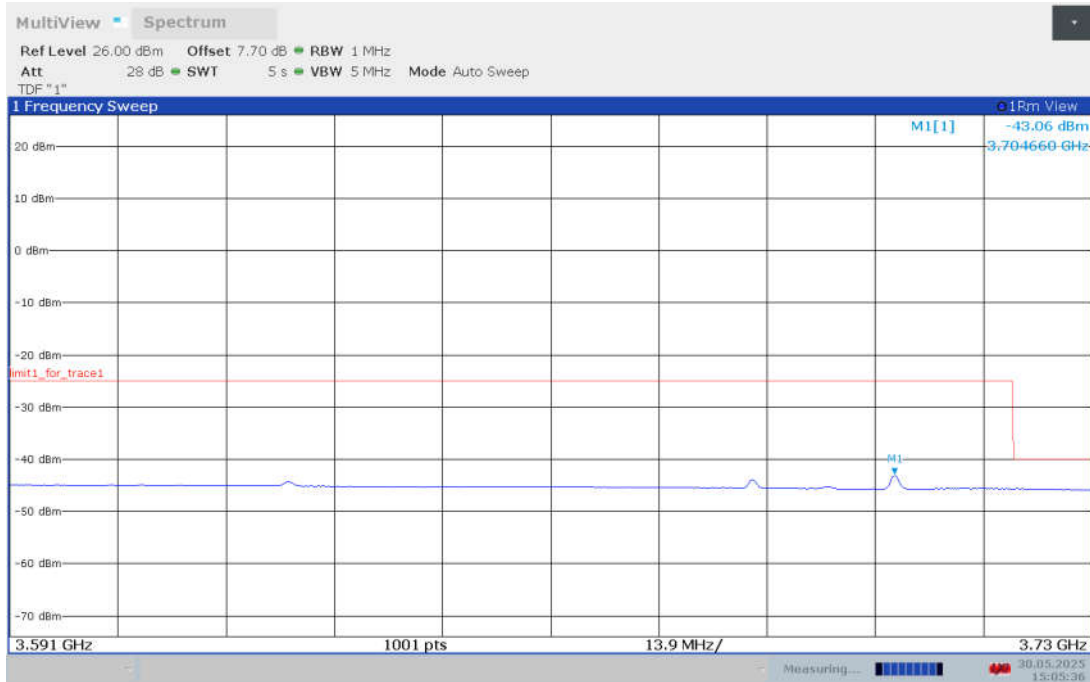
LOW BAND EDGE BLOCK-40MHz-1RB-LOW_offset



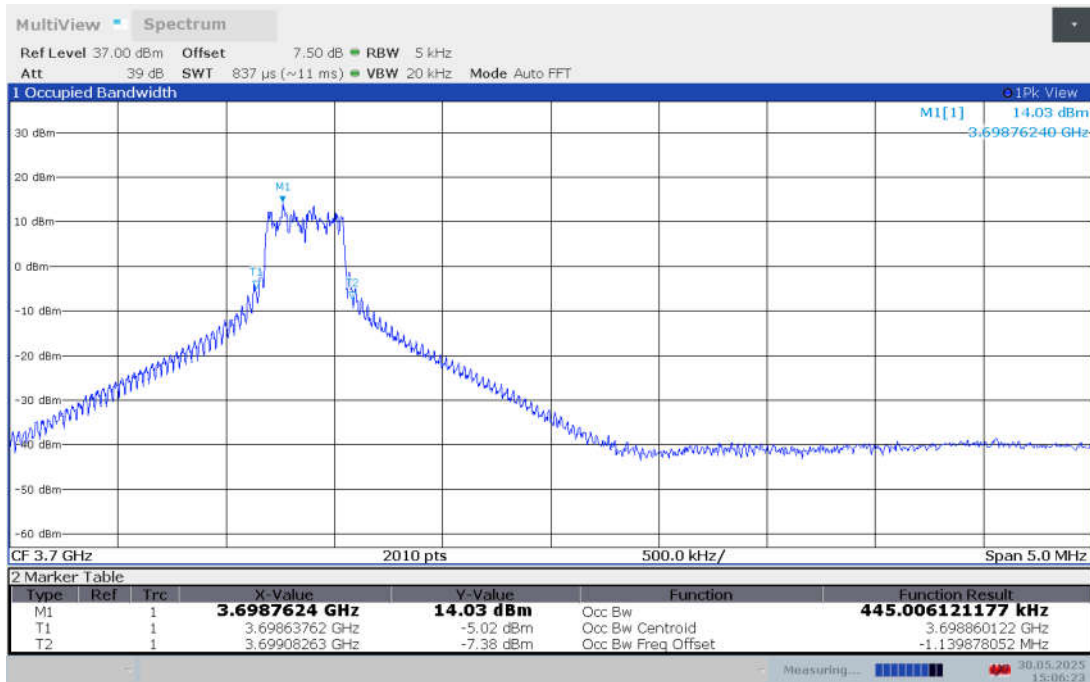
LOW BAND EDGE BLOCK-40MHz-1RB-LOW_offset



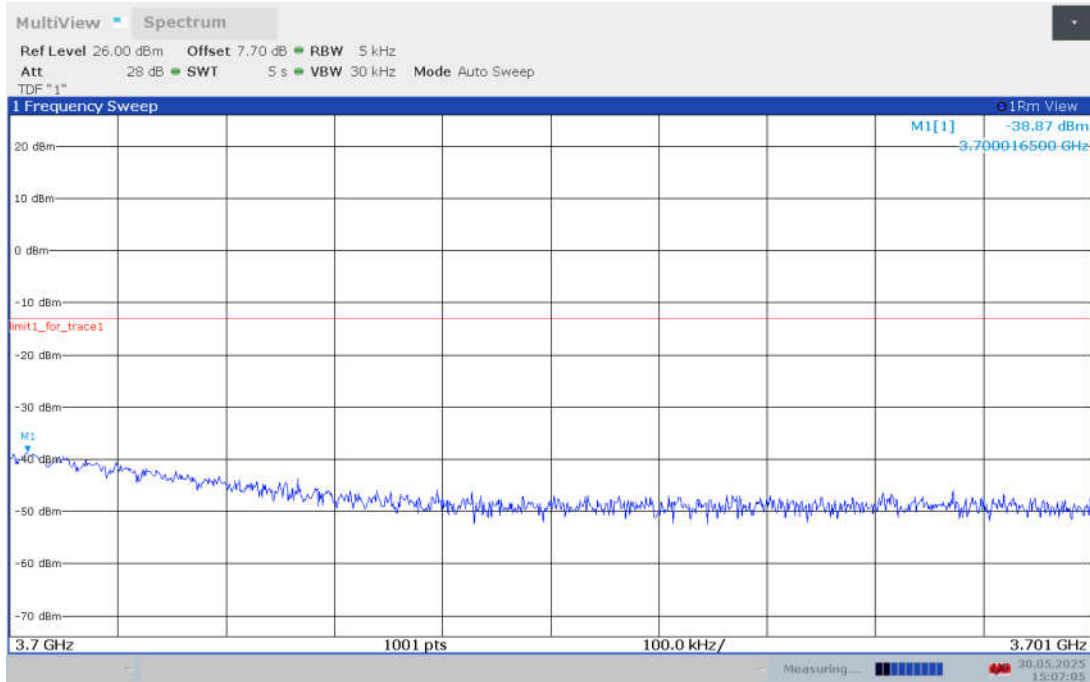
LOW BAND EDGE BLOCK-40MHz-1RB-LOW_offset



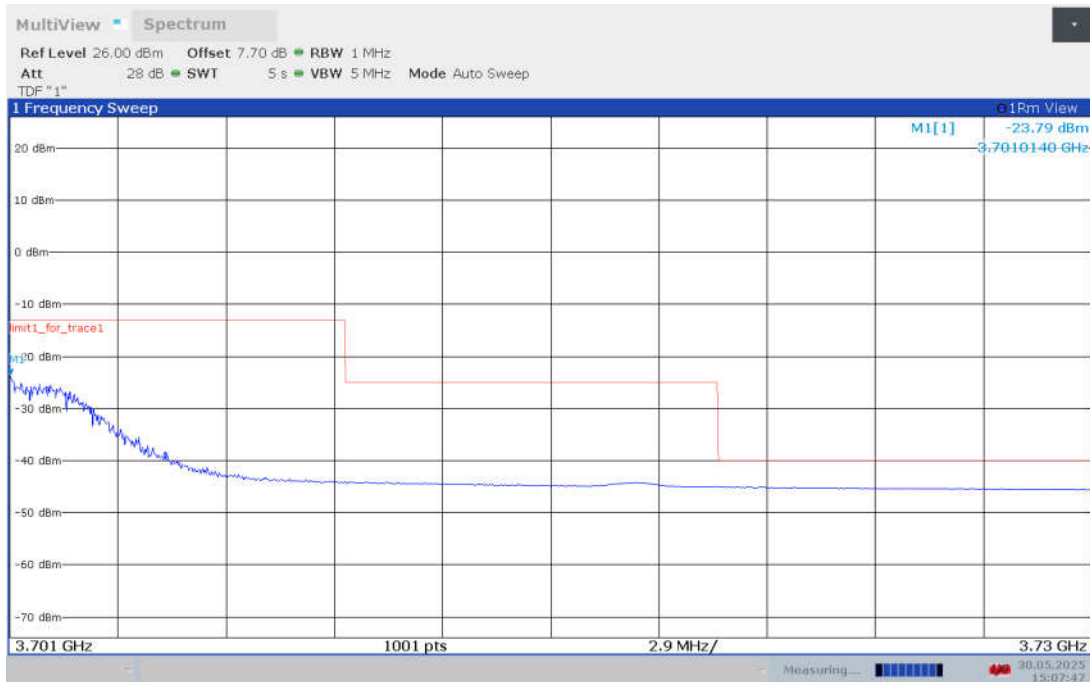
OBW: 1RB-HIGH_offset_40MHz



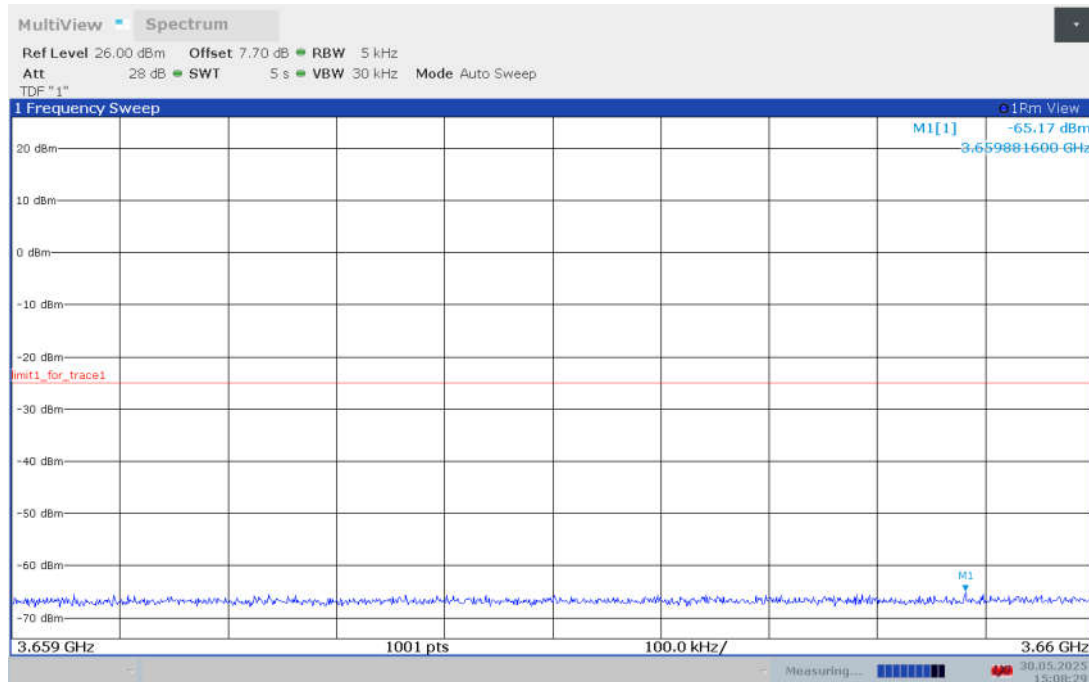
HIGH BAND EDGE BLOCK-40MHz-1RB-HIGH_offset



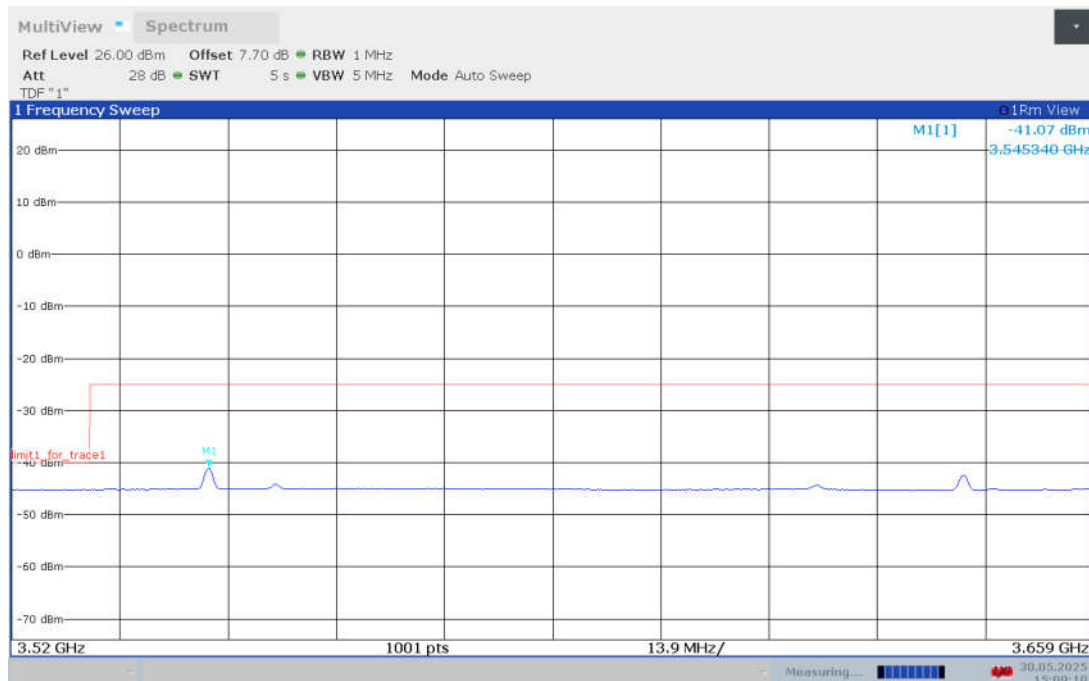
HIGH BAND EDGE BLOCK-40MHz-1RB-HIGH_offset



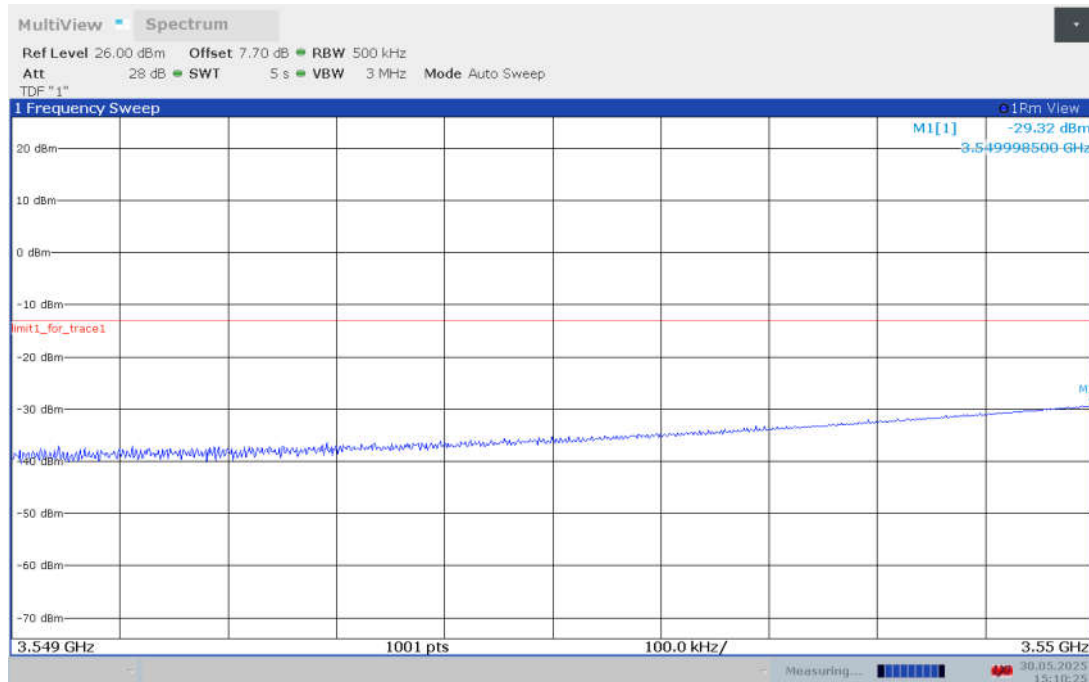
HIGH BAND EDGE BLOCK-40MHz-1RB-HIGH_offset



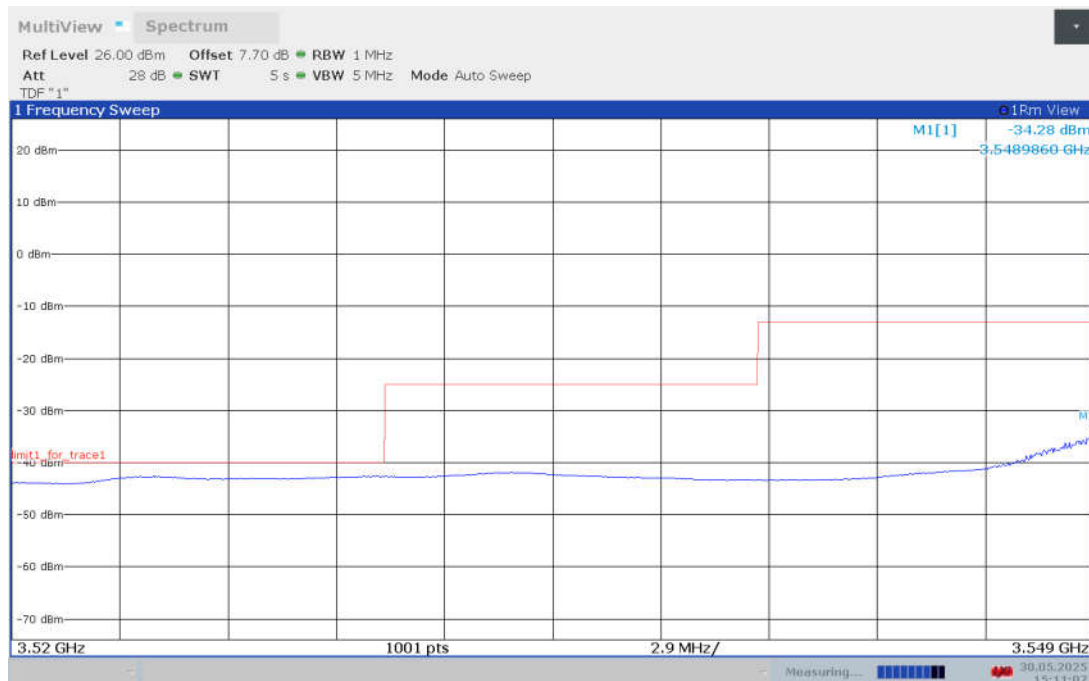
HIGH BAND EDGE BLOCK-40MHz-1RB-HIGH_offset



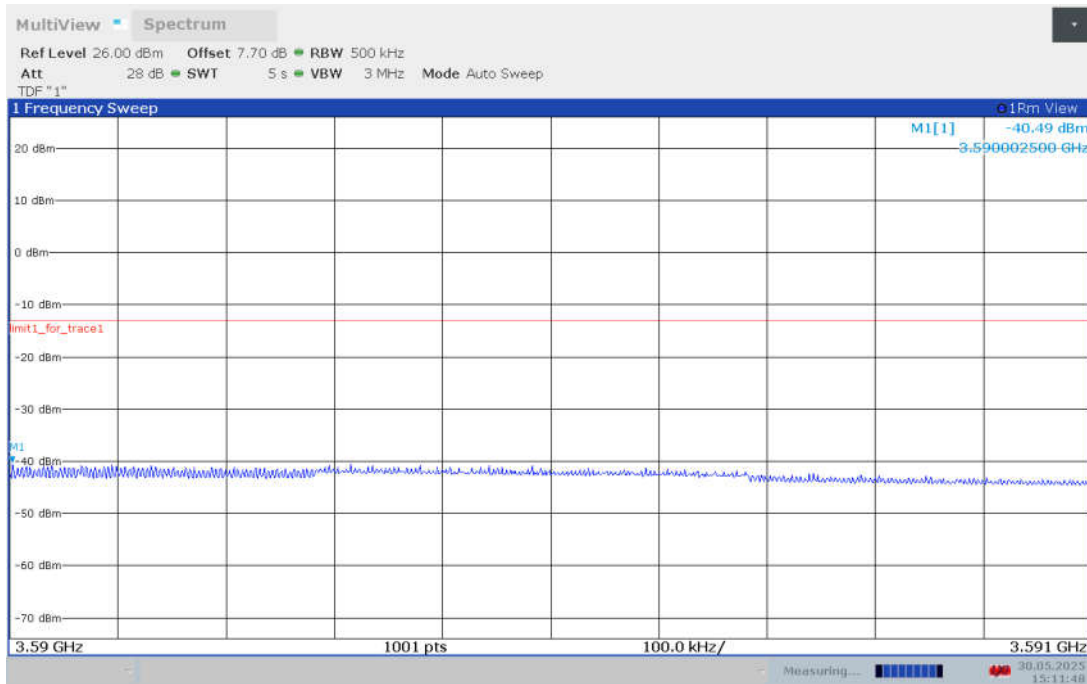
LOW BAND EDGE BLOCK-40MHz-100%RB



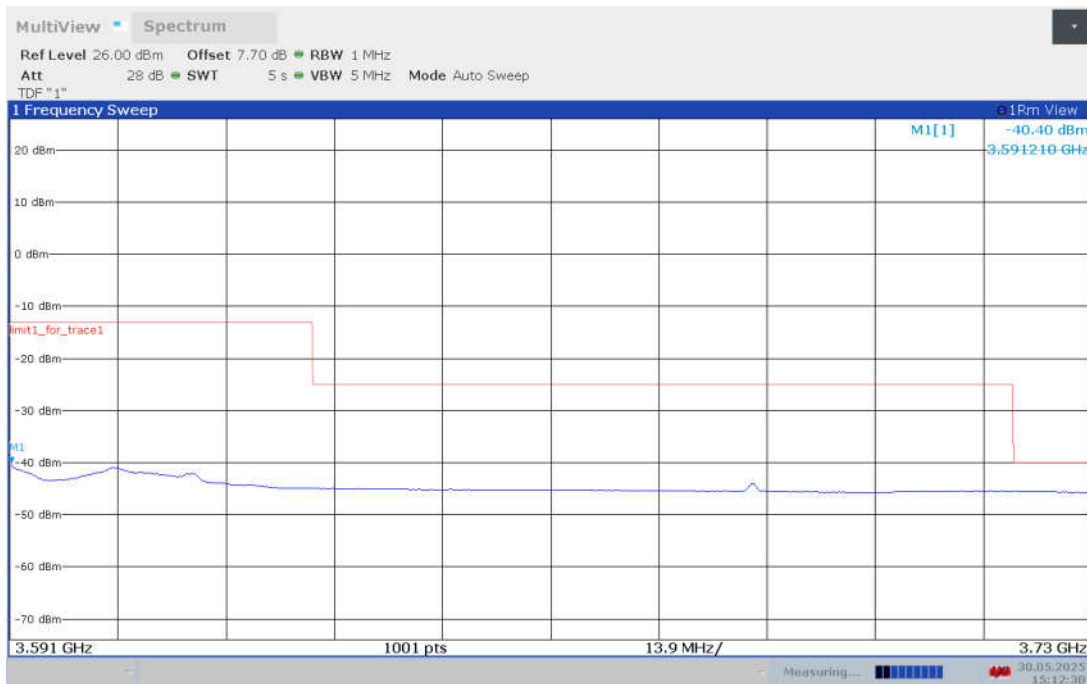
LOW BAND EDGE BLOCK-40MHz-100%RB



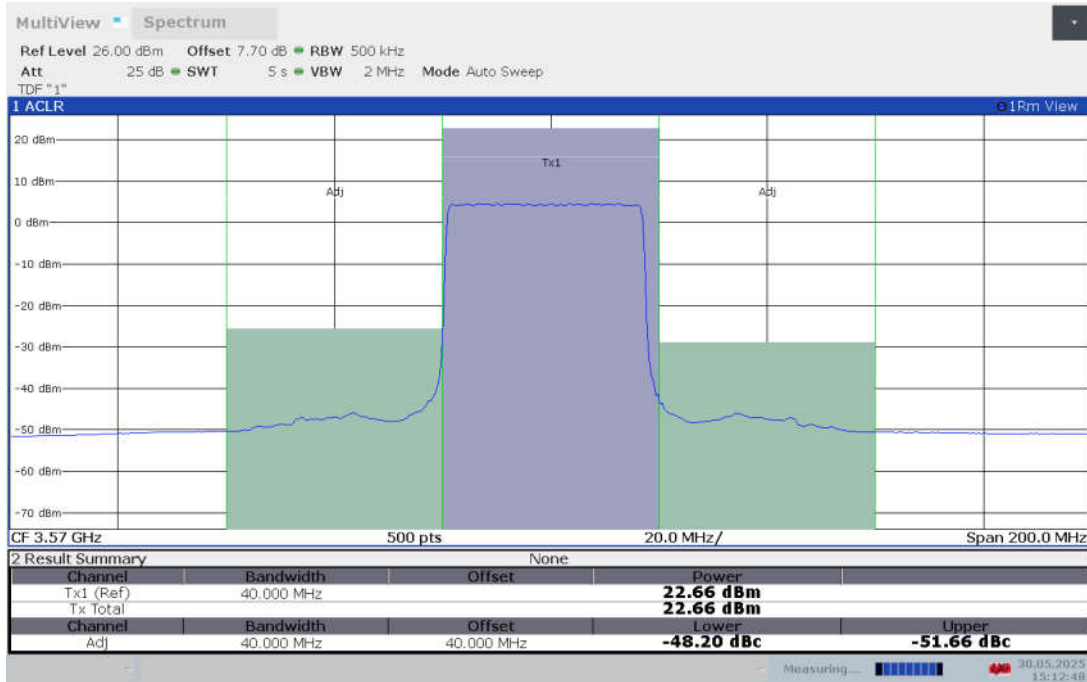
LOW BAND EDGE BLOCK-40MHz-100%RB



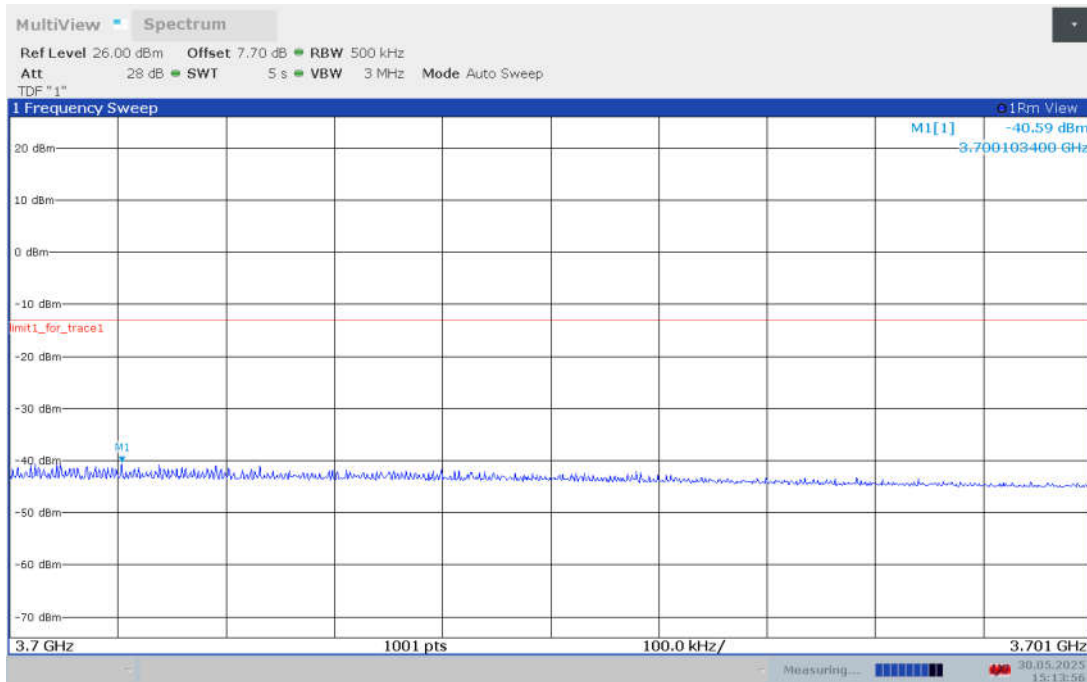
LOW BAND EDGE BLOCK-40MHz-100%RB



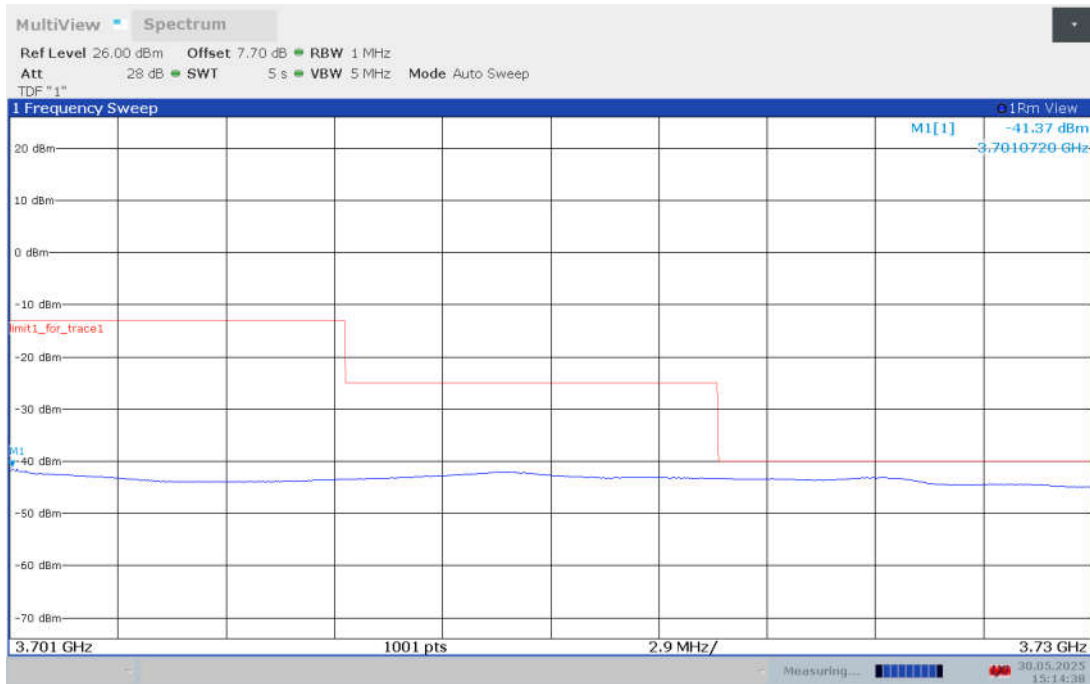
ACLR



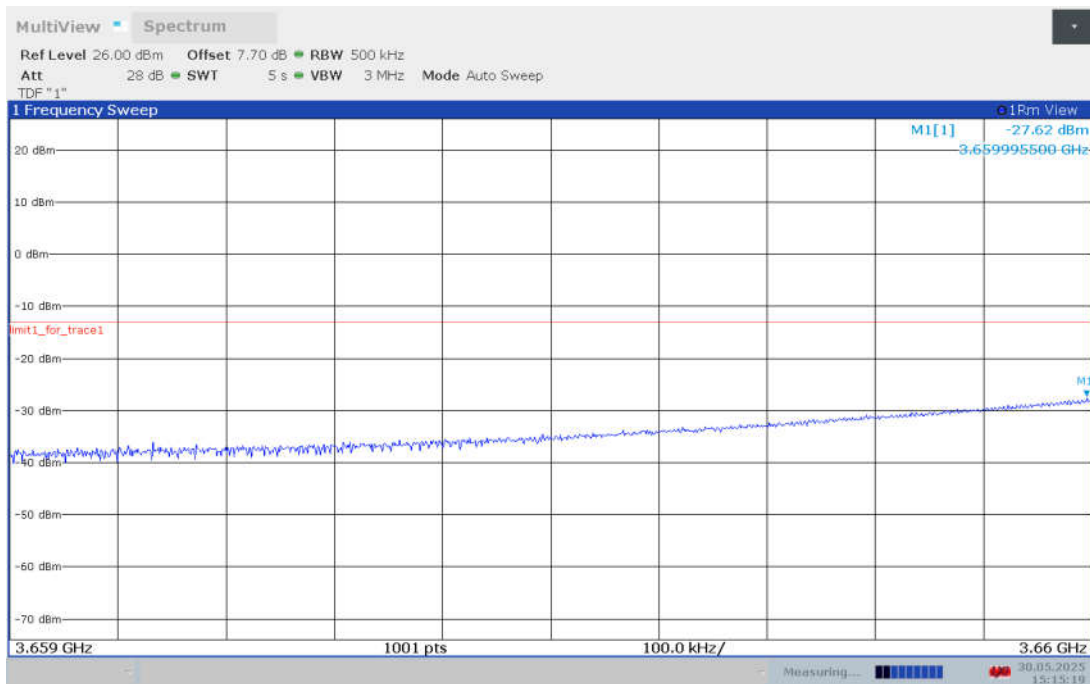
HIGH BAND EDGE BLOCK-40MHz-100%RB



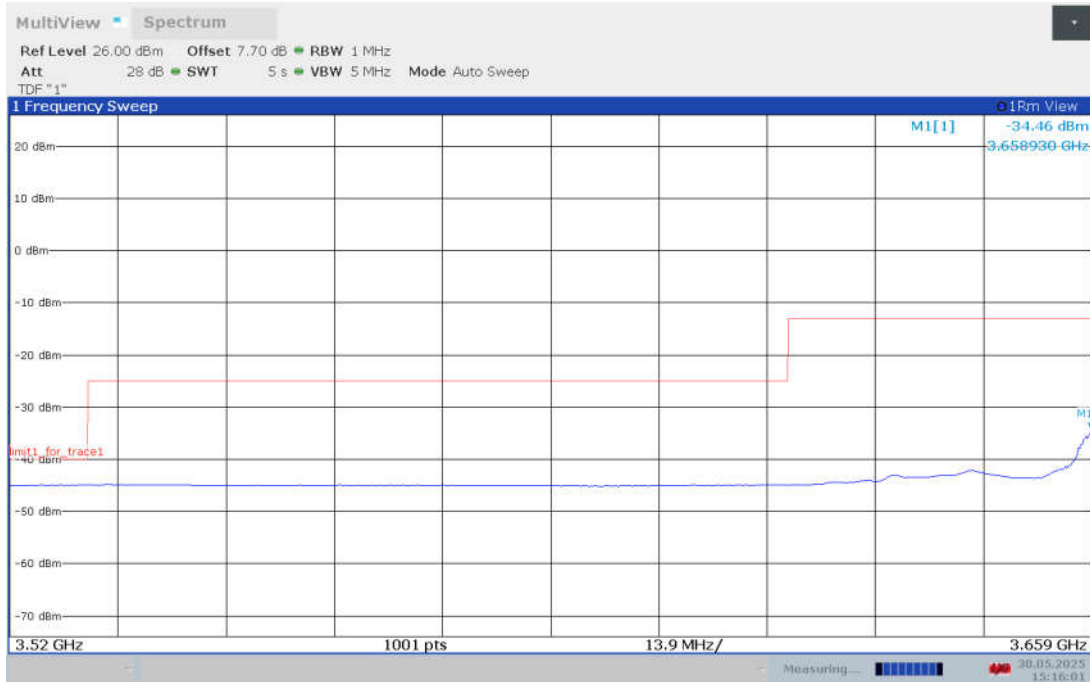
HIGH BAND EDGE BLOCK-40MHz-100%RB



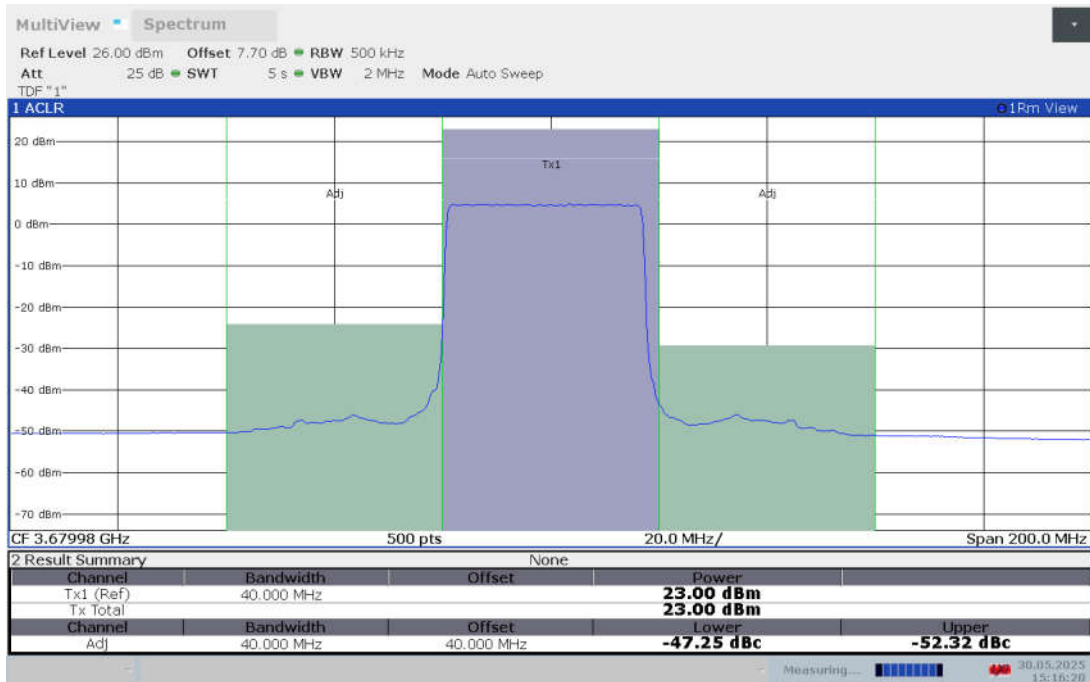
HIGH BAND EDGE BLOCK-40MHz-100%RB



HIGH BAND EDGE BLOCK-40MHz-100%RB

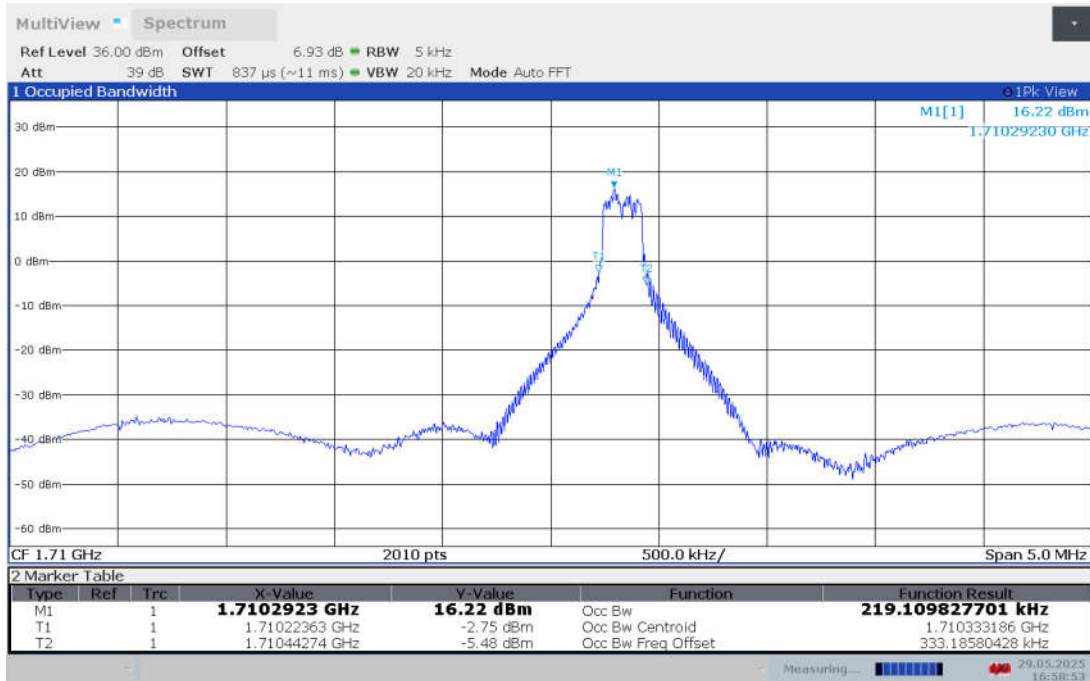


ACLR

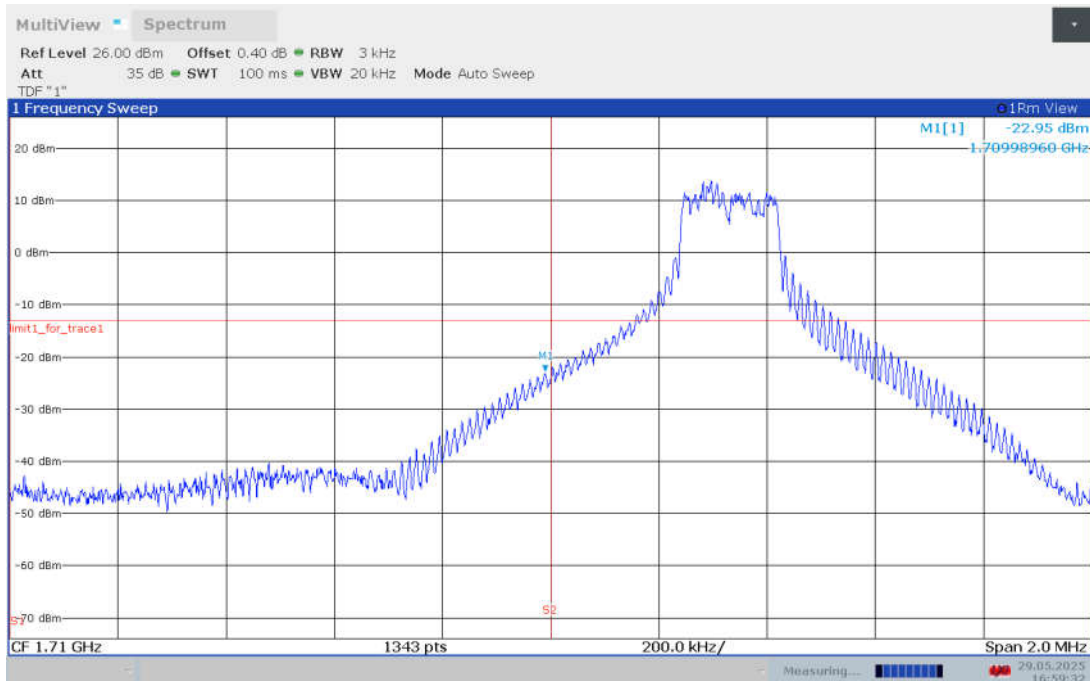


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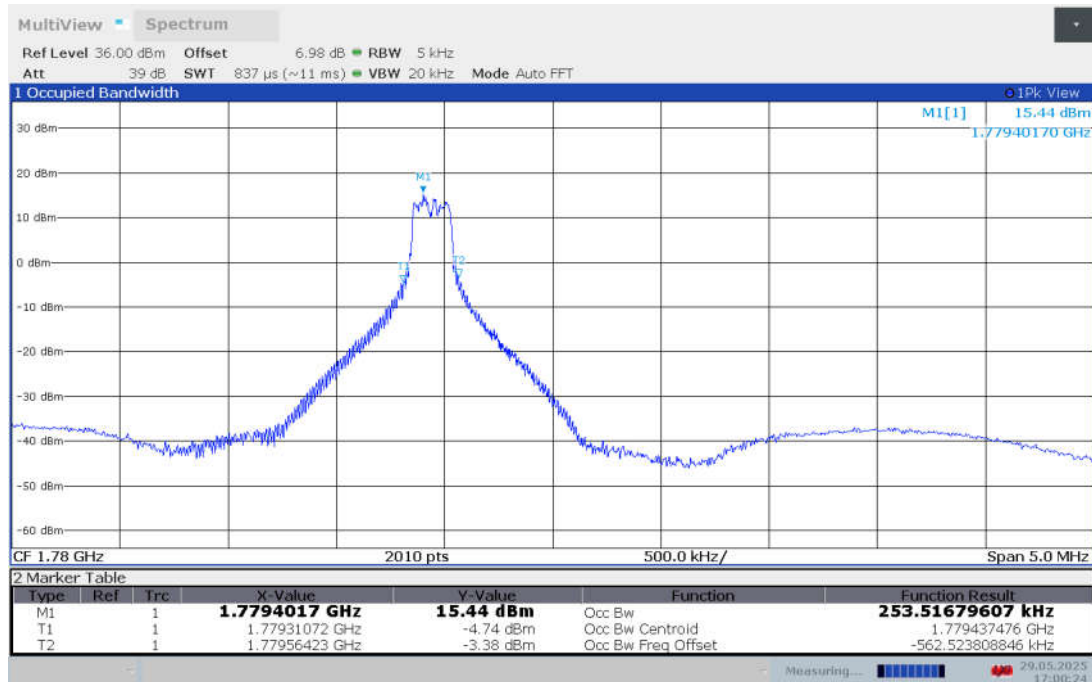
OBW: 1RB-LOW_offset_5MHz



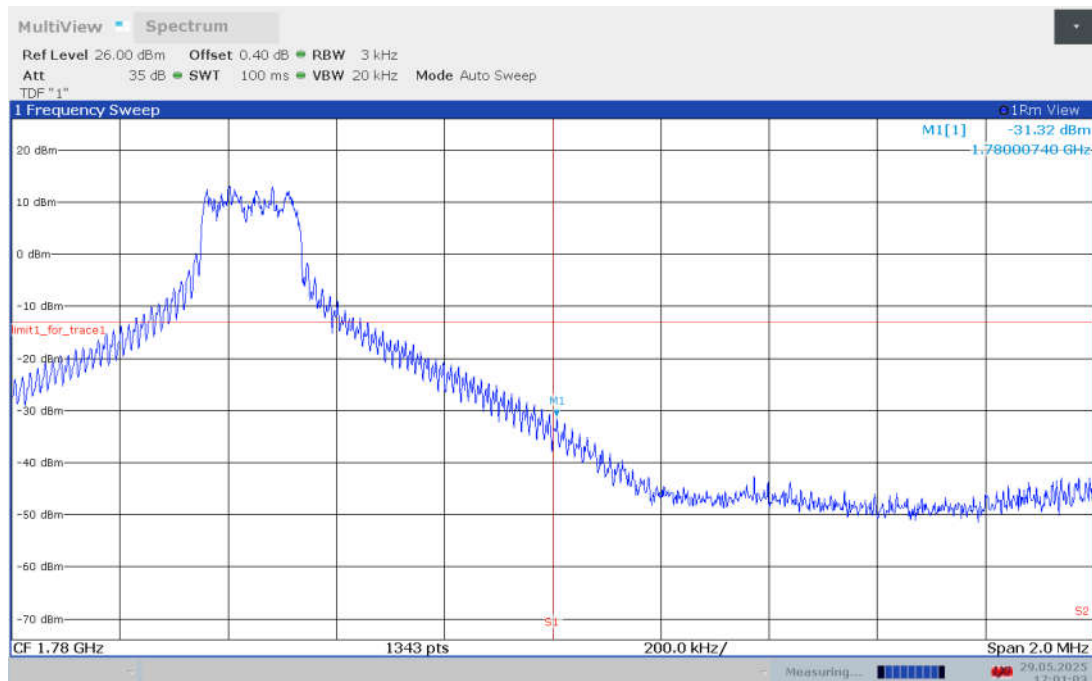
LOW BAND EDGE BLOCK-5MHz-1RB-LOW_offset



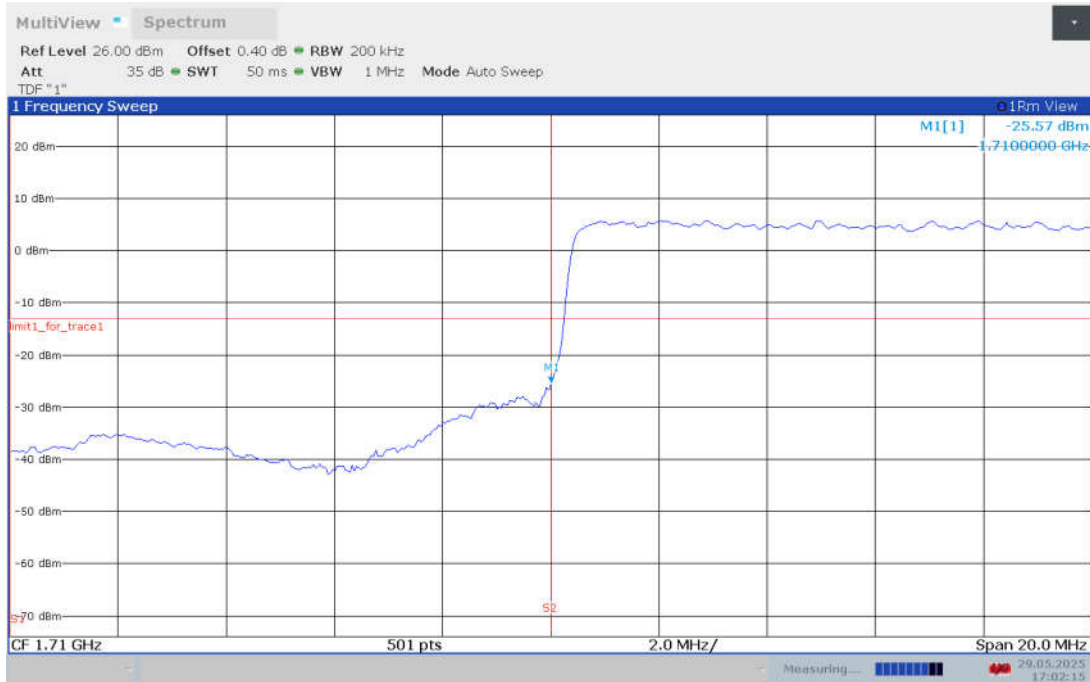
OBW: 1RB-HIGH_offset_20MHz



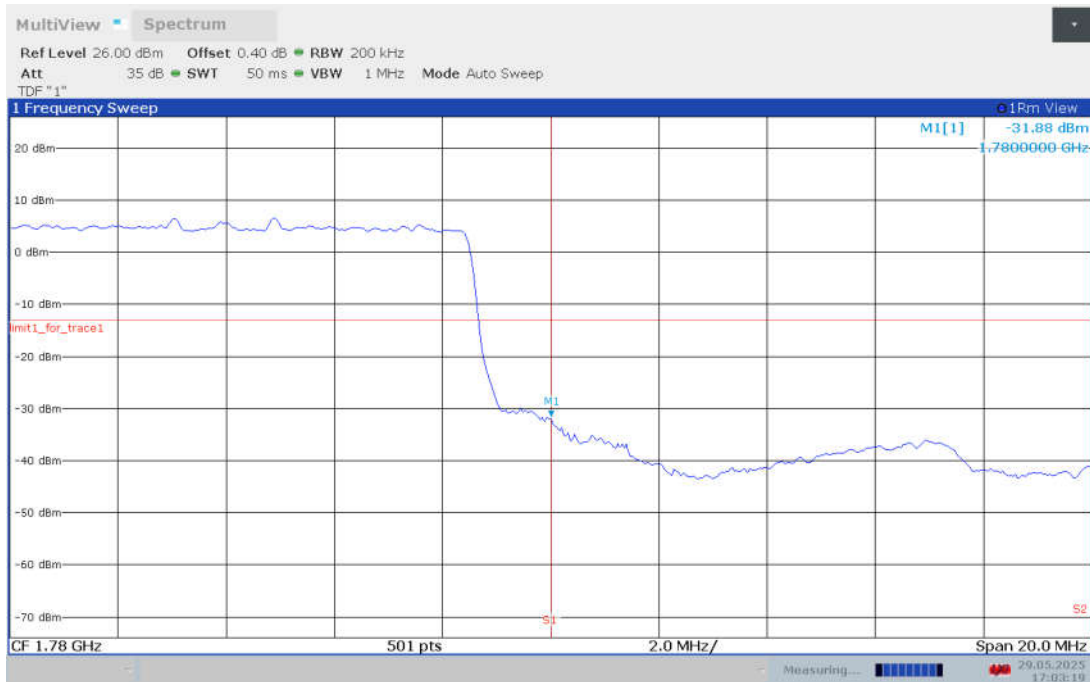
HIGH BAND EDGE BLOCK-20MHz-1RB-HIGH_offset



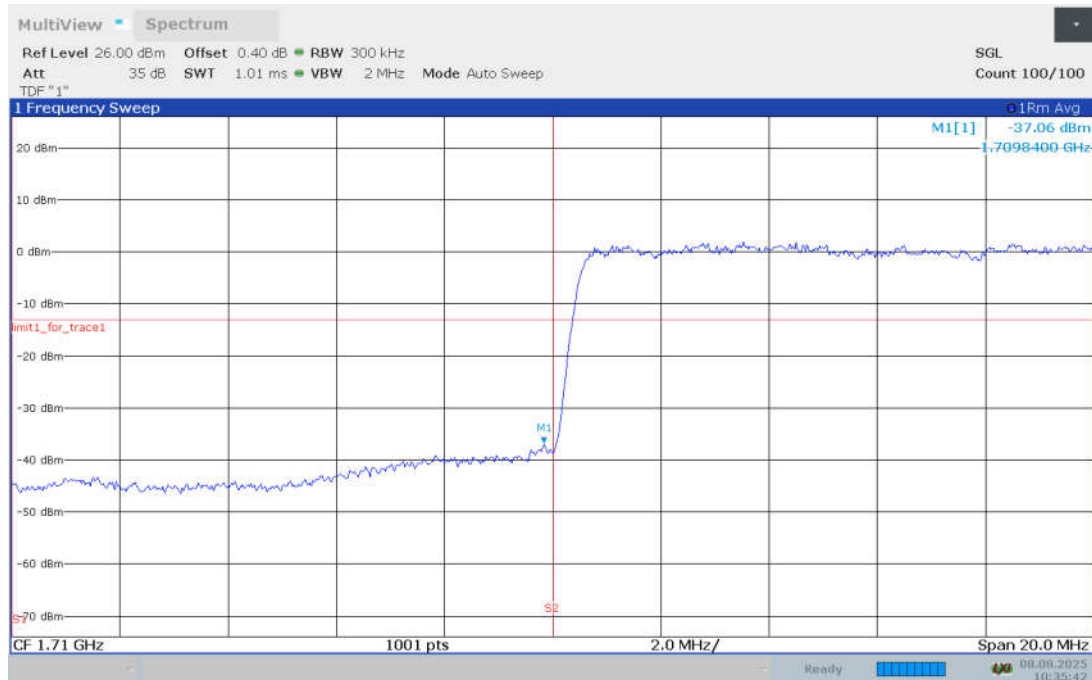
LOW BAND EDGE BLOCK-20MHz-100%RB



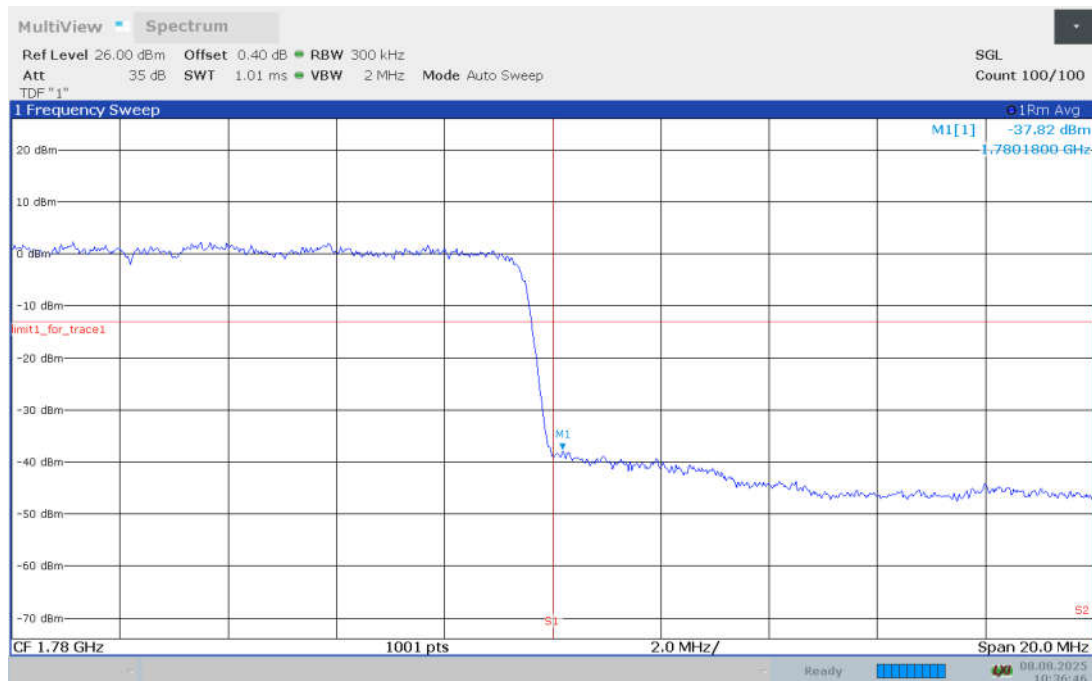
HIGH BAND EDGE BLOCK-20MHz-100%RB



LOW BAND EDGE BLOCK-30MHz-100%RB

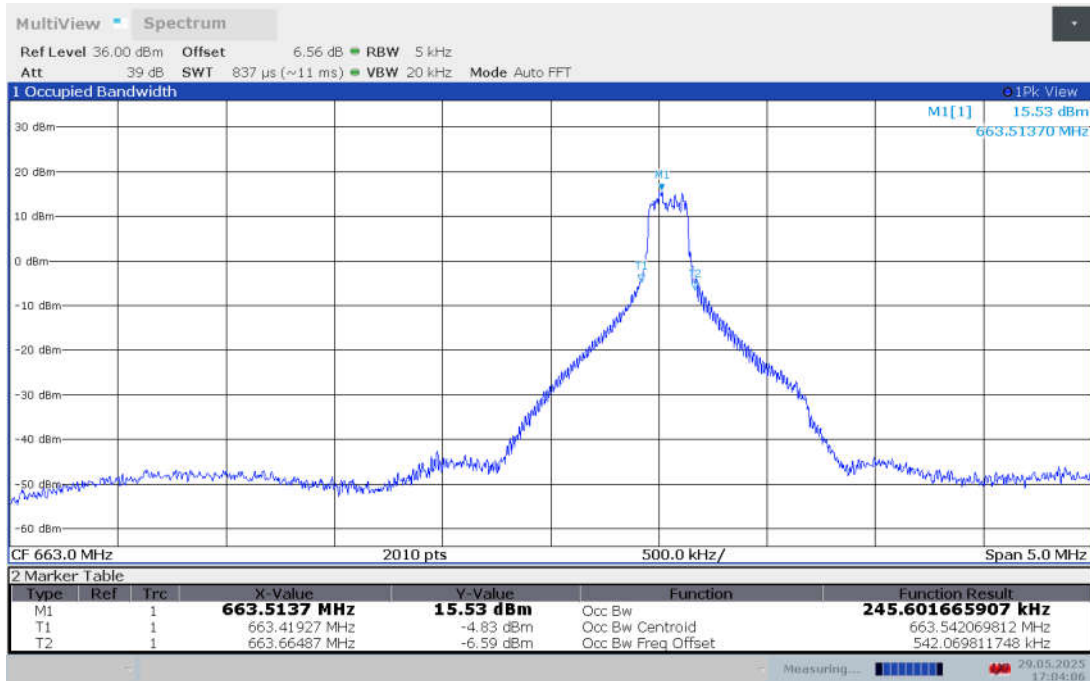


HIGH BAND EDGE BLOCK-30MHz-100%RB

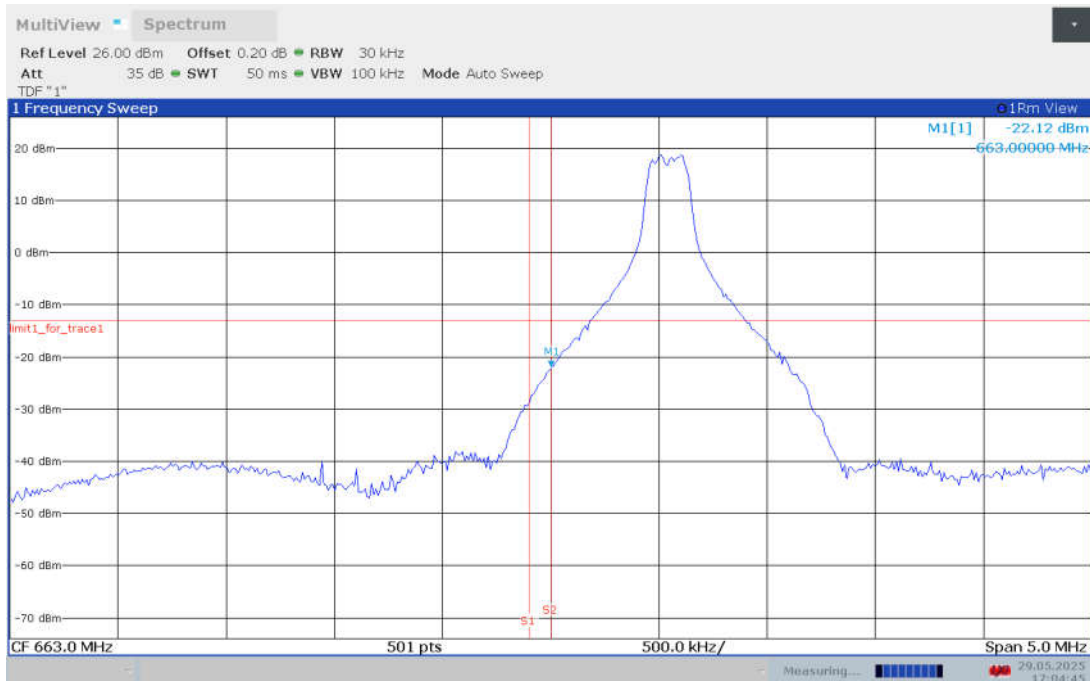


NR n71

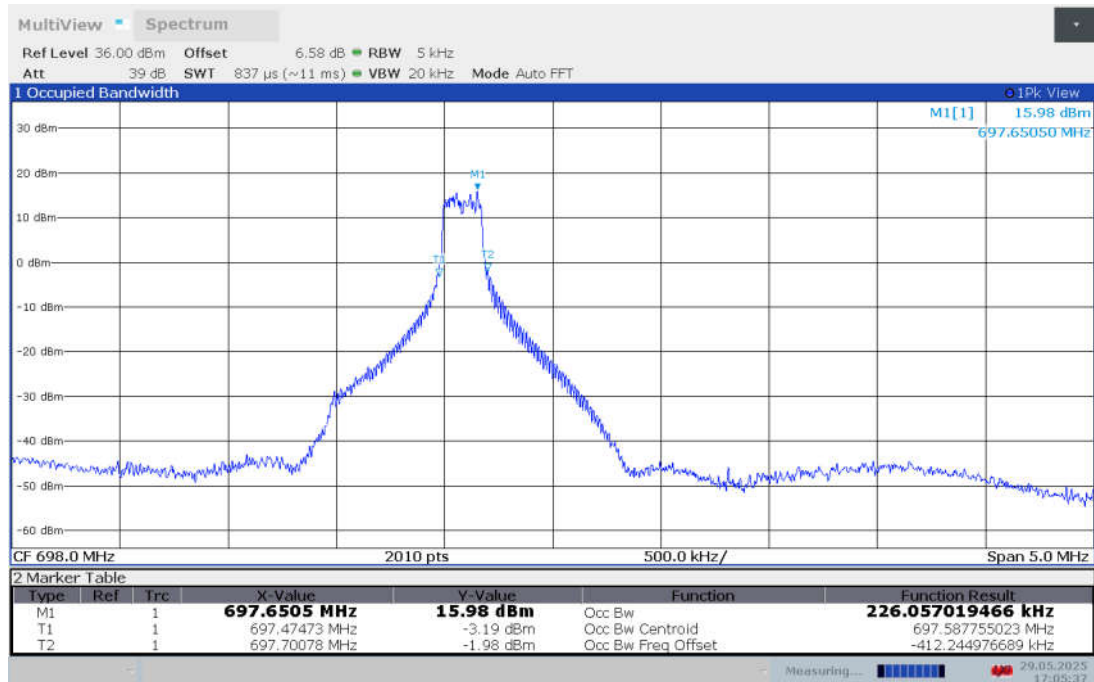
OBW: 1RB-LOW_offset_20MHz



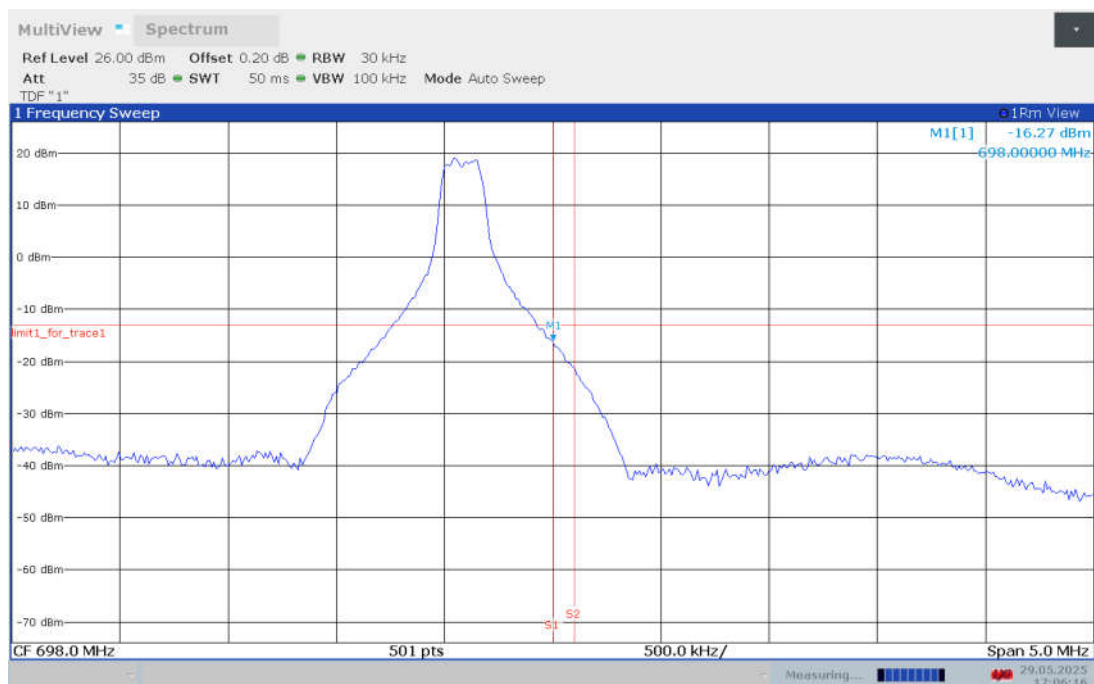
LOW BAND EDGE BLOCK-20MHz-1RB-LOW_offset



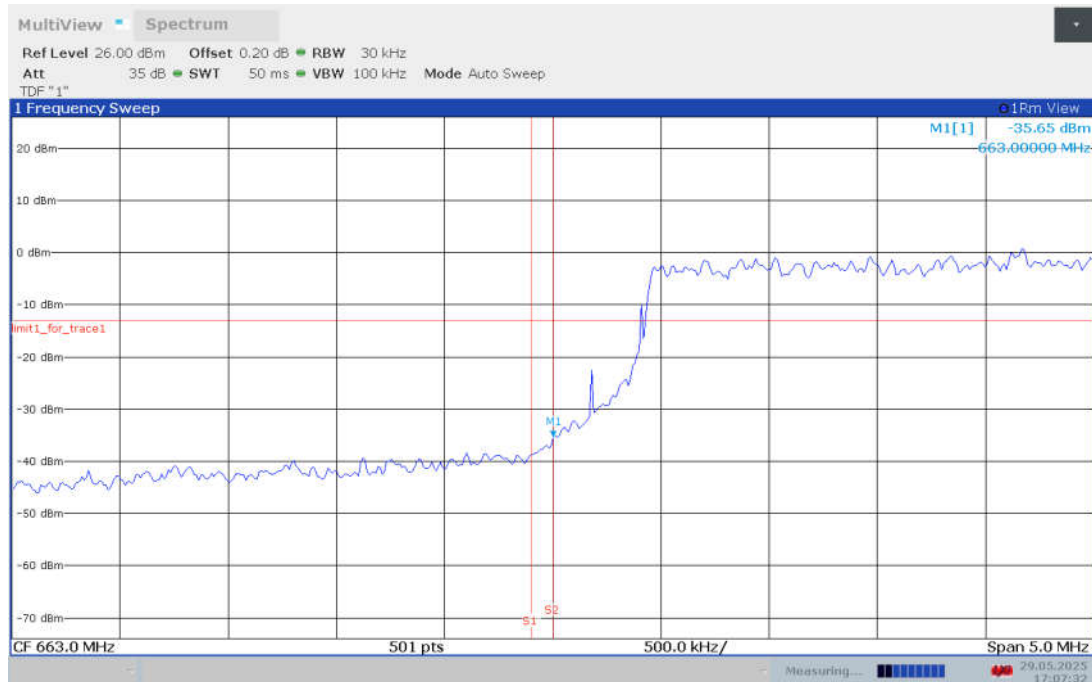
OBW: 1RB-HIGH_offset_10MHz



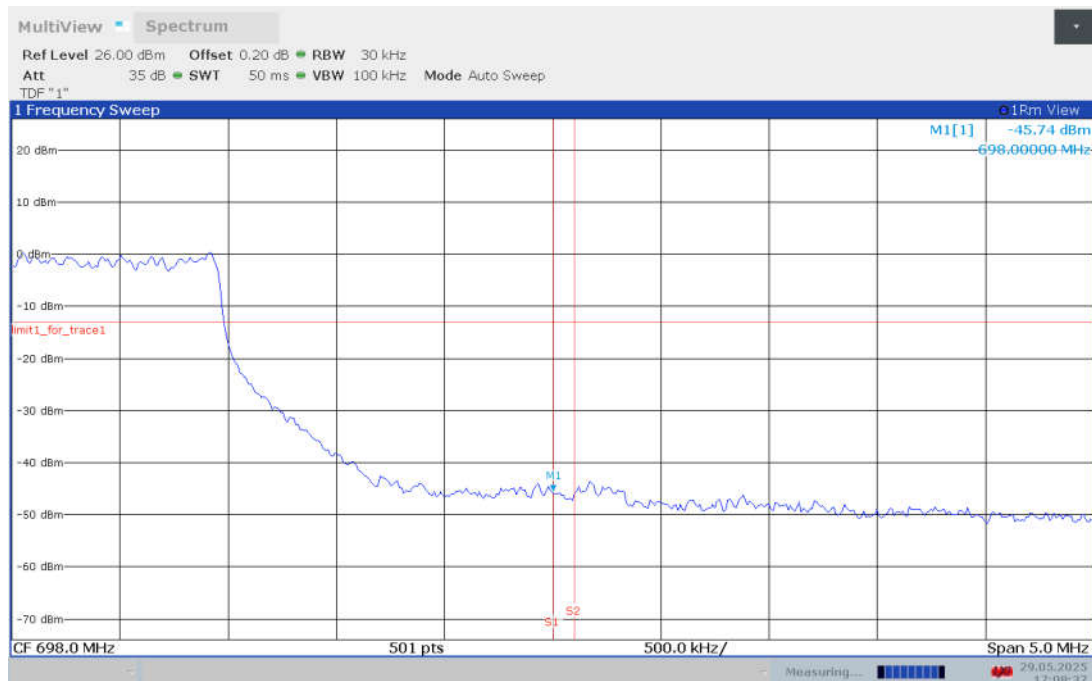
HIGH BAND EDGE BLOCK-10MHz-1RB-HIGH_offset



LOW BAND EDGE BLOCK-20MHz-100%RB

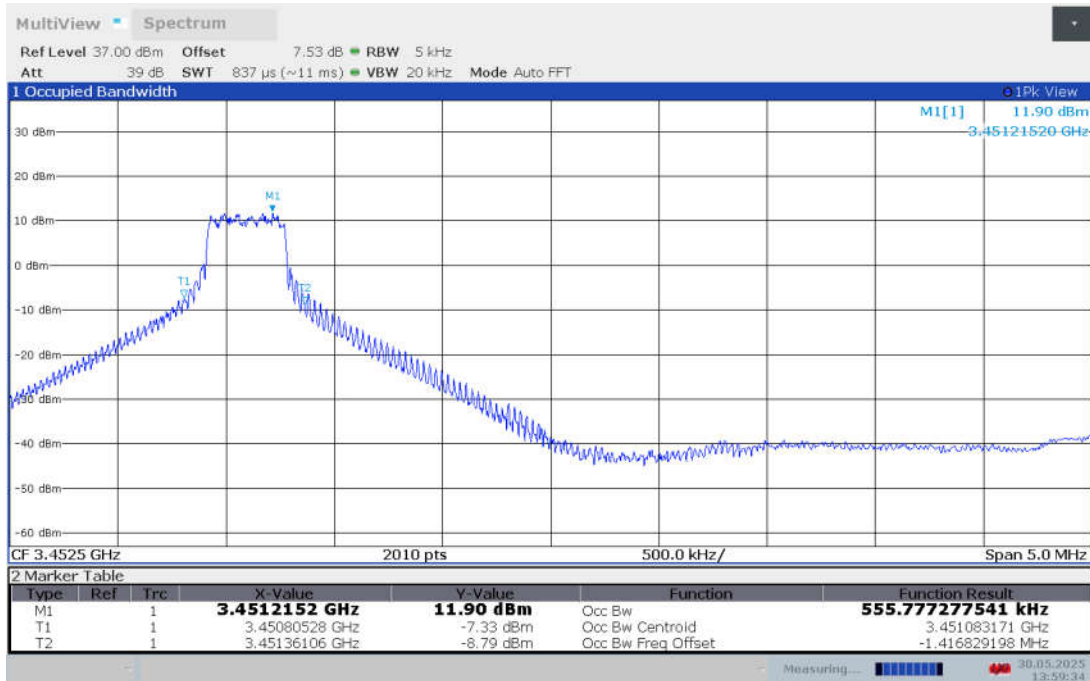


HIGH BAND EDGE BLOCK-20MHz-100%RB

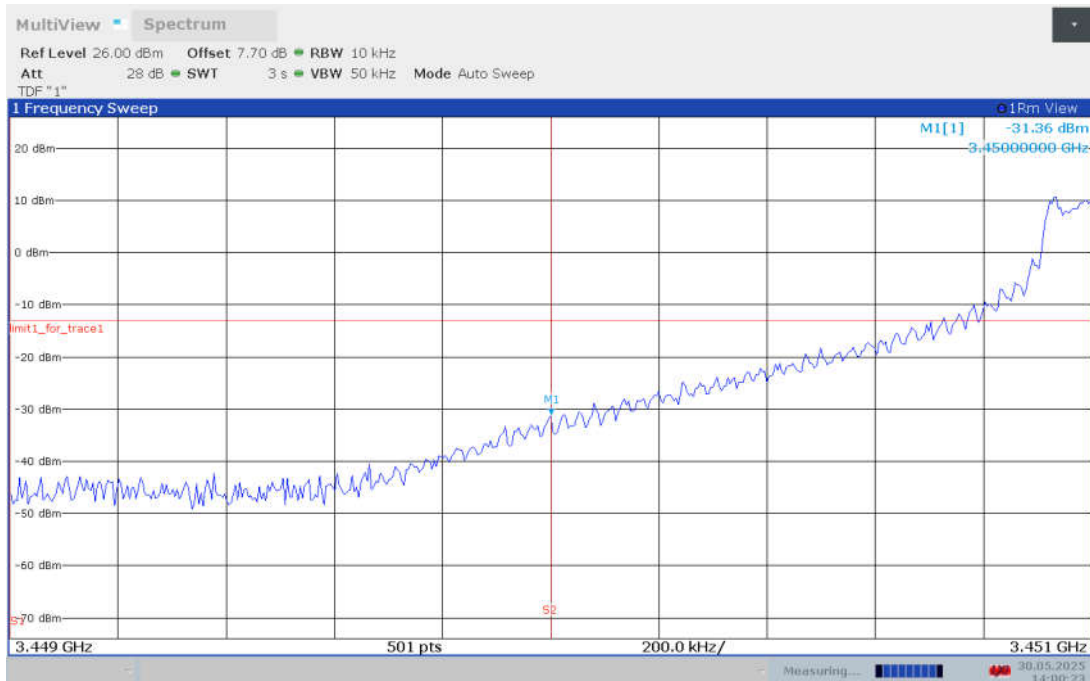


NR n77L

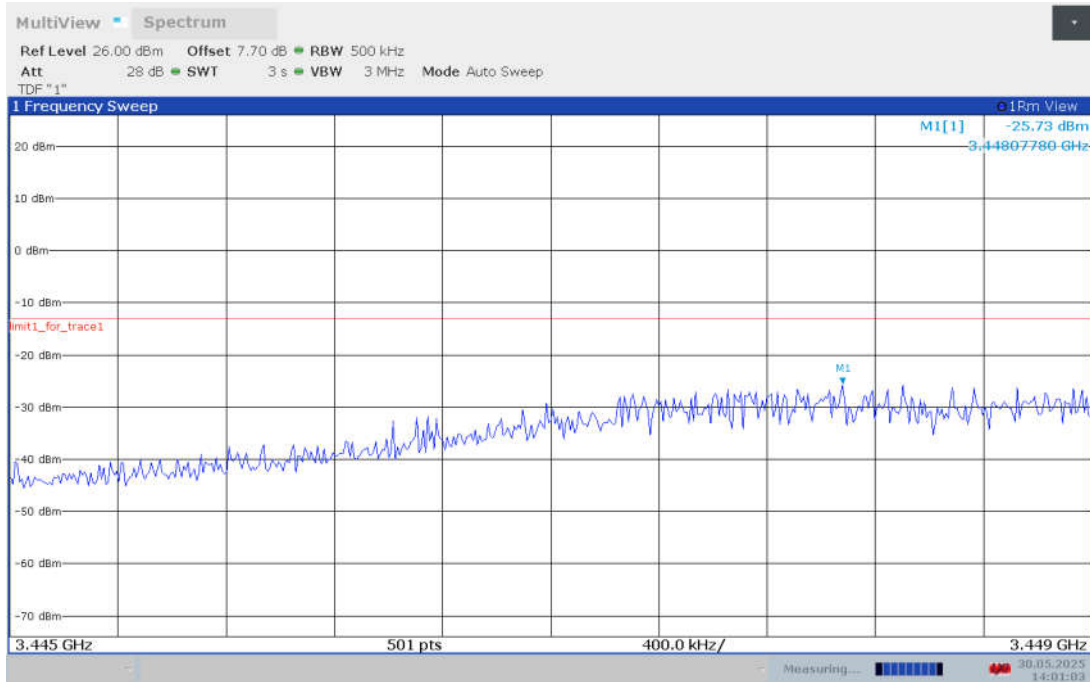
OBW: 1RB-LOW_offset_40MHz



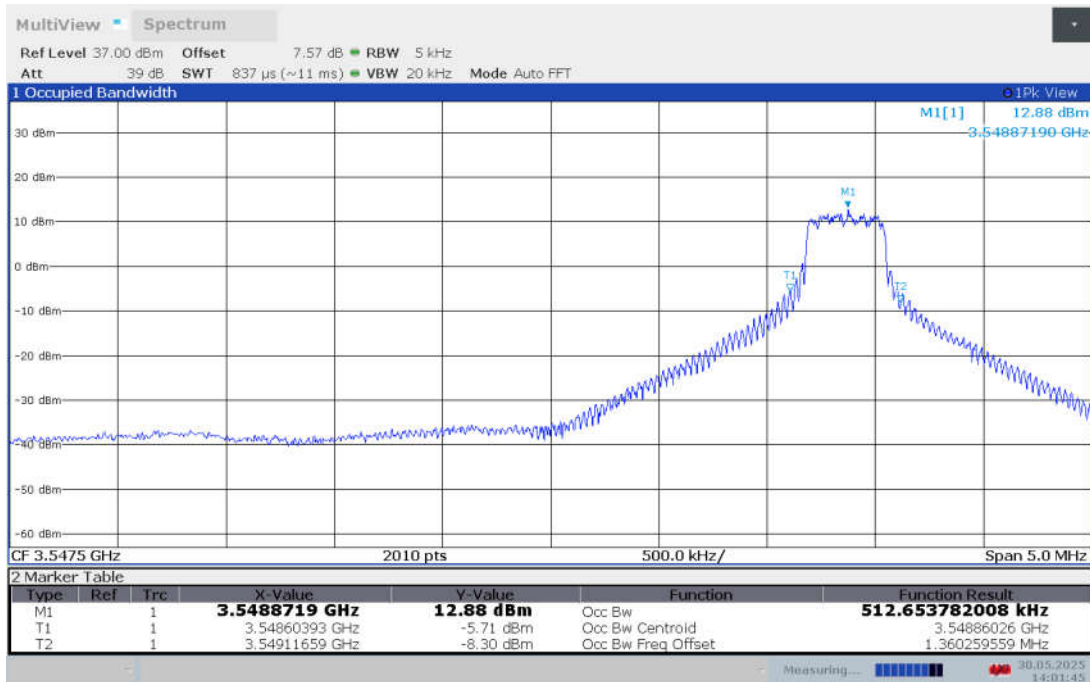
LOW BAND EDGE BLOCK-40MHz-1RB-LOW_offset



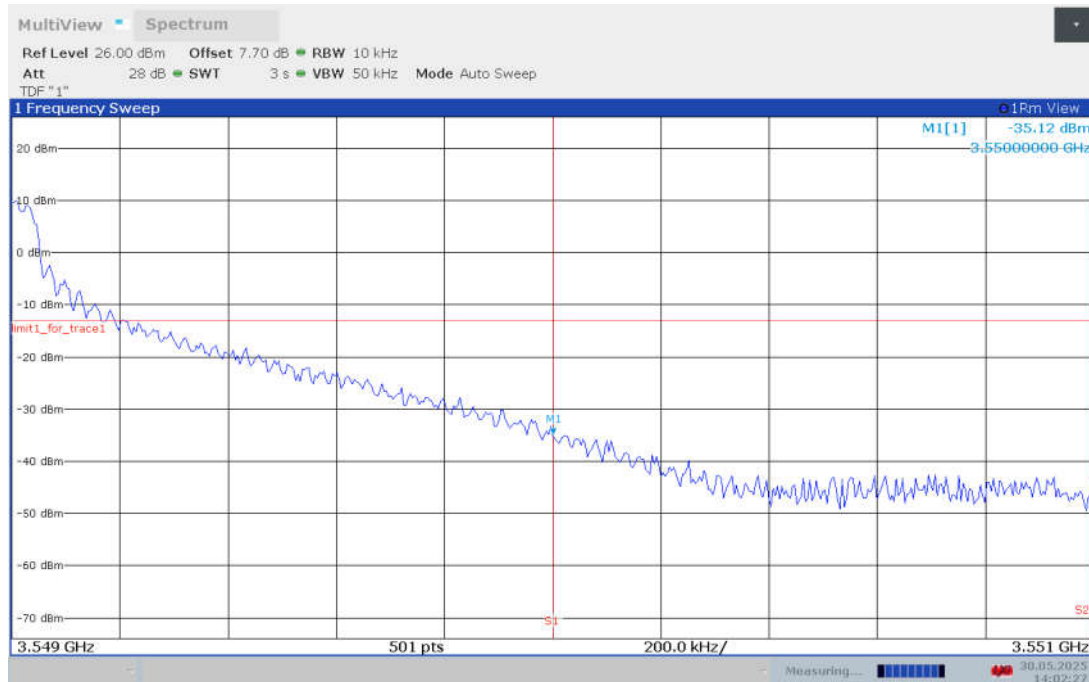
LOW BAND EDGE BLOCK-40MHz-1RB-LOW_offset



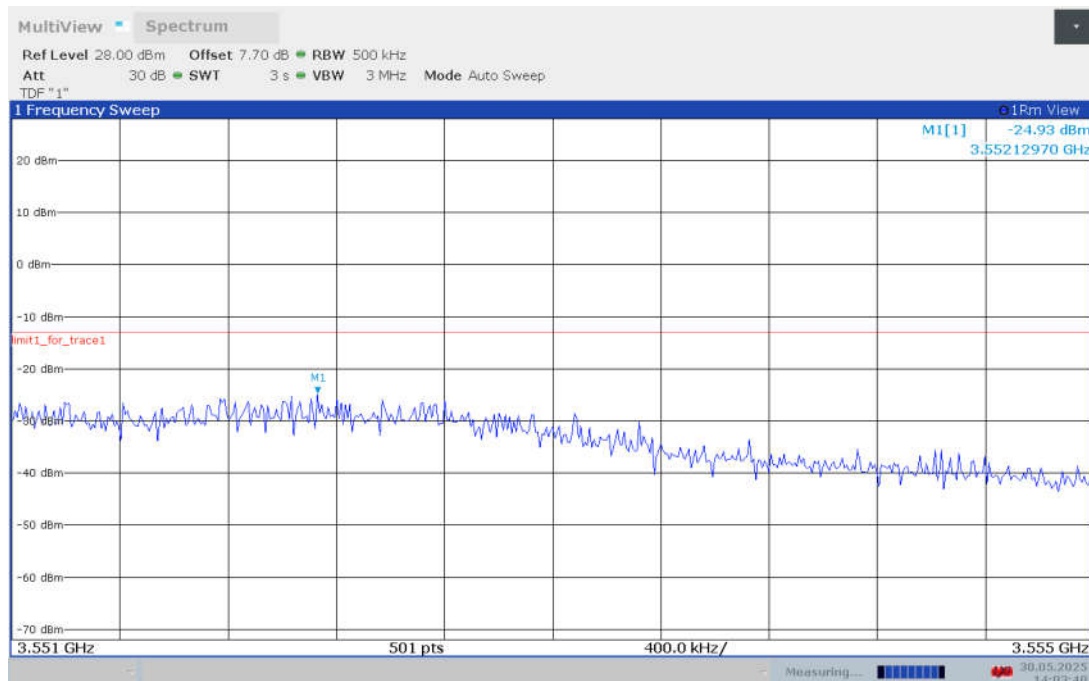
OBW: 1RB-HIGH_offset_40MHz



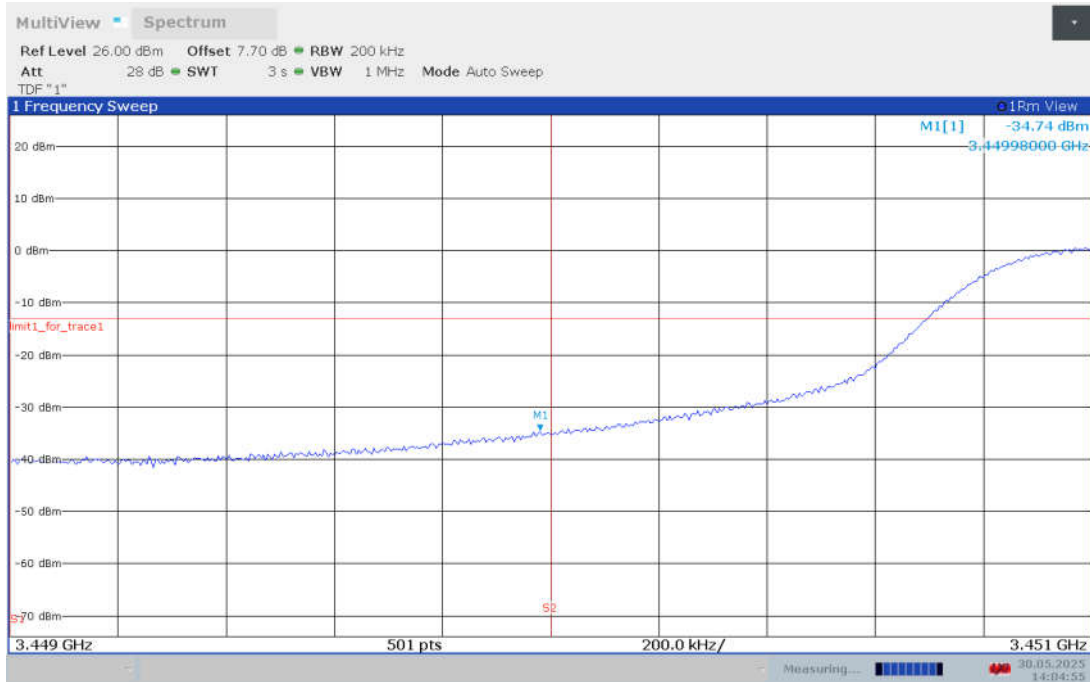
HIGH BAND EDGE BLOCK-40MHz-1RB-HIGH_offset



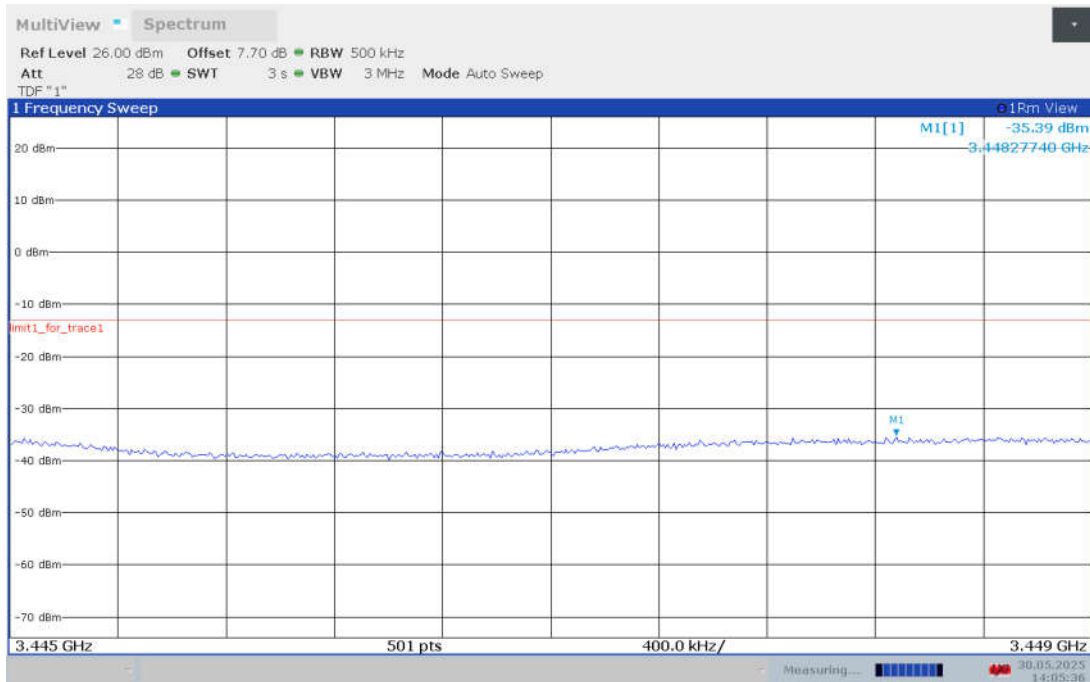
HIGH BAND EDGE BLOCK-40MHz-1RB-HIGH_offset



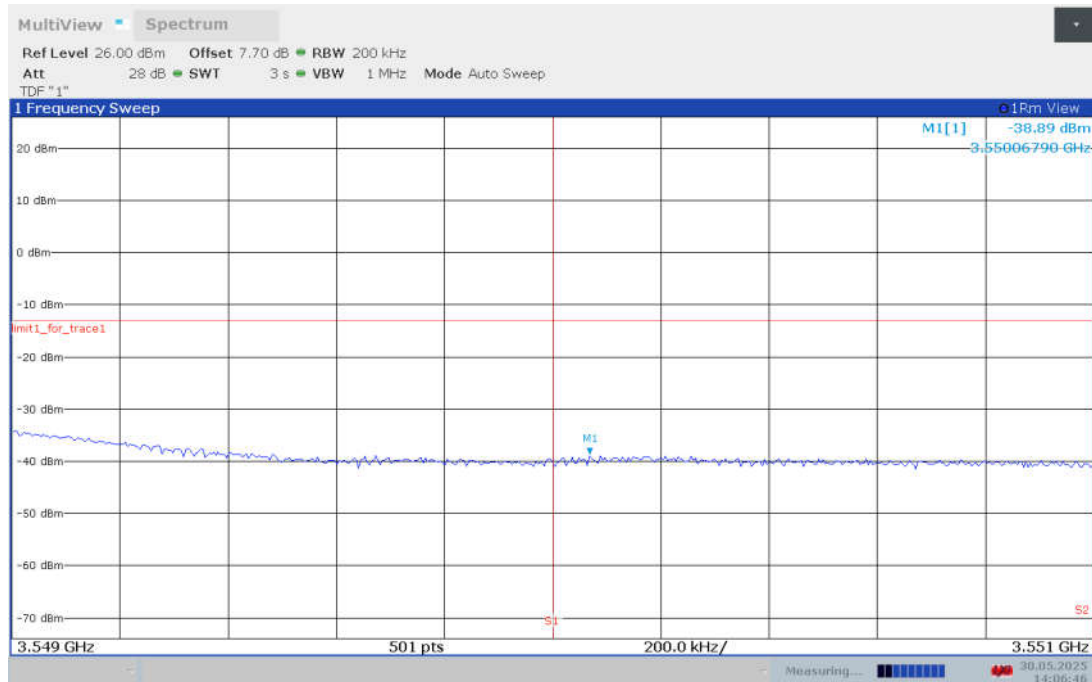
LOW BAND EDGE BLOCK-100MHz-100%RB



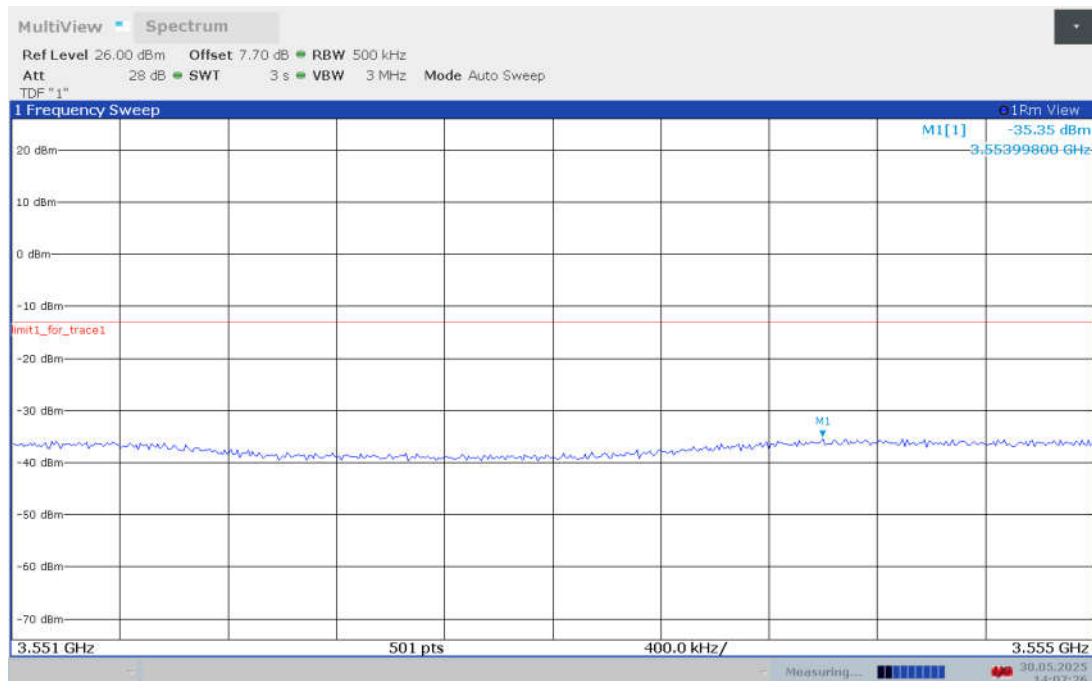
LOW BAND EDGE BLOCK-100MHz-100%RB



HIGH BAND EDGE BLOCK-100MHz-100%RB

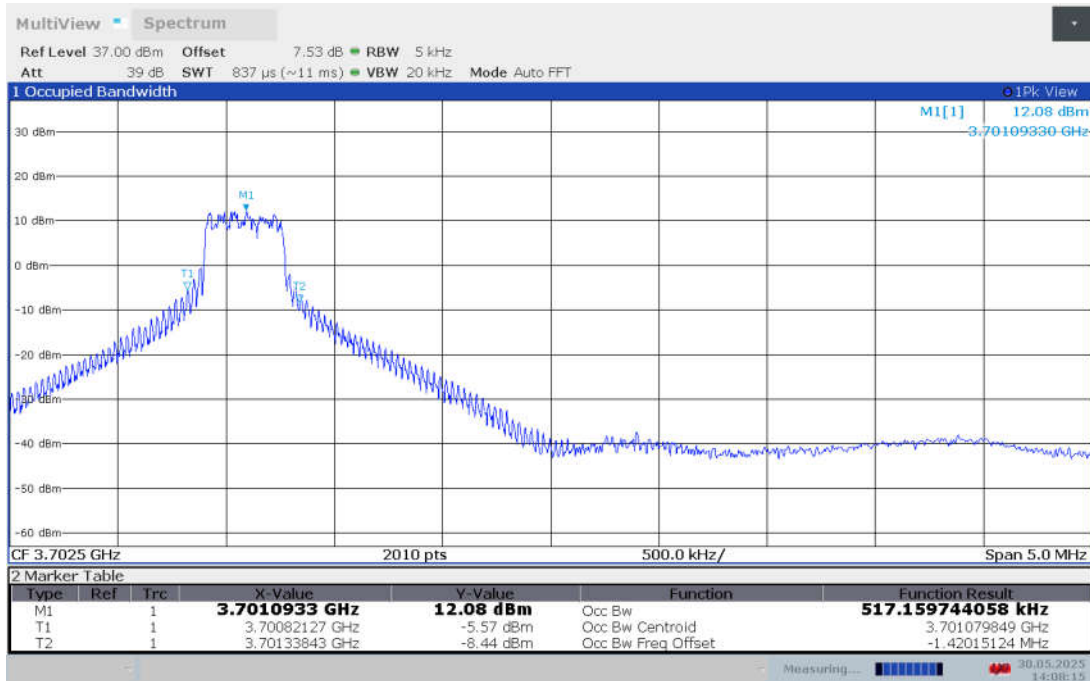


HIGH BAND EDGE BLOCK-100MHz-100%RB

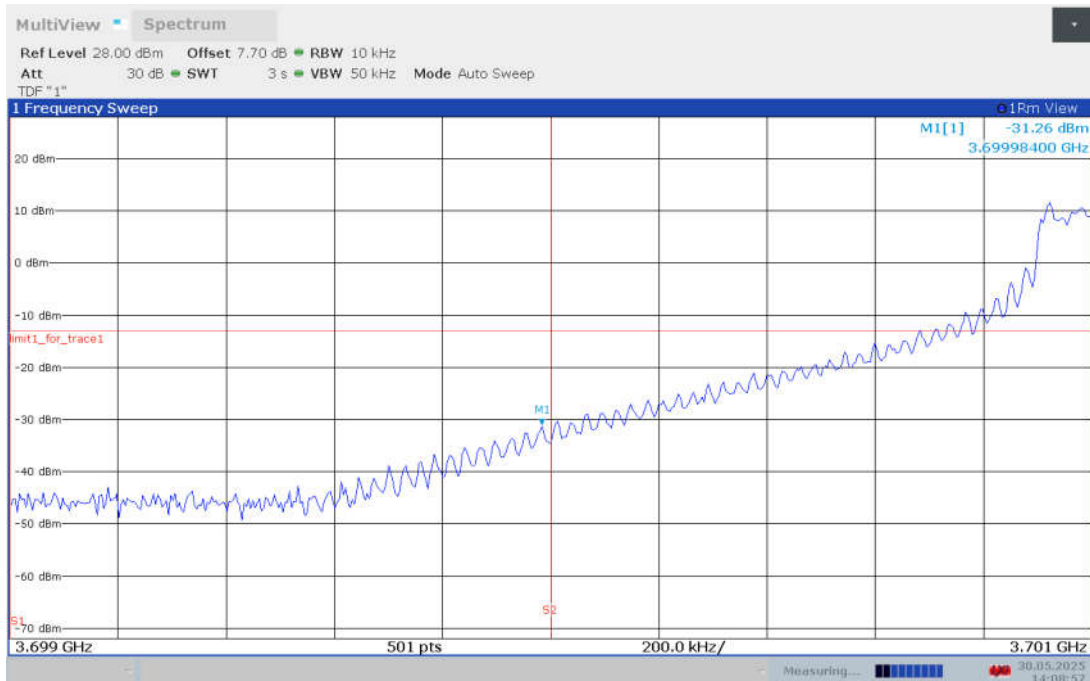


NR n77H

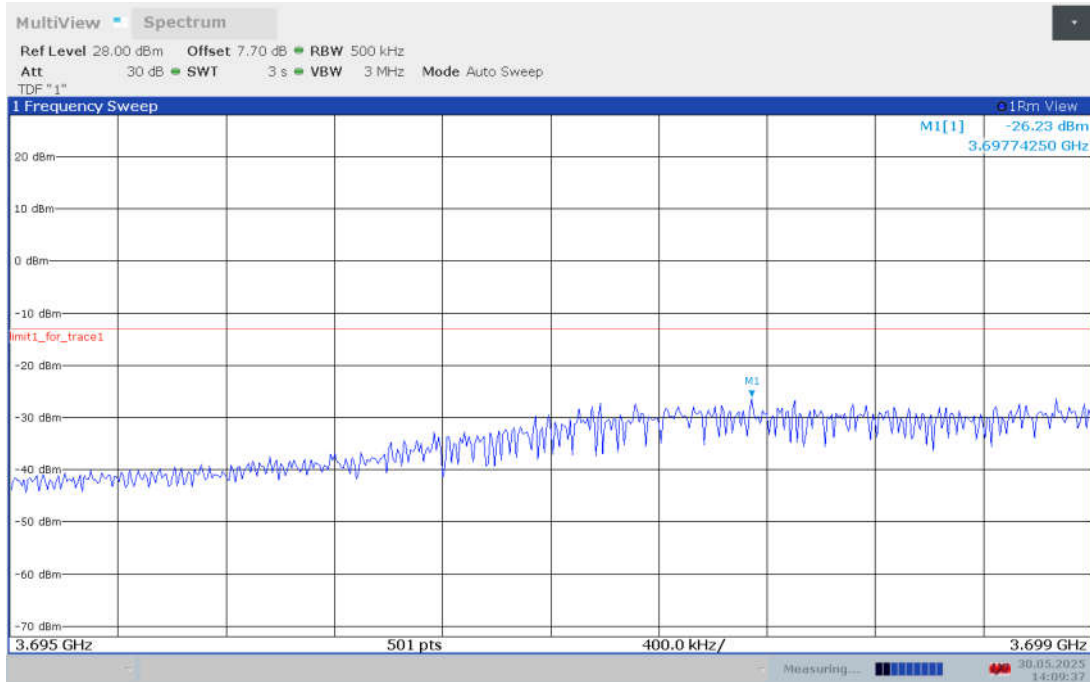
OBW: 1RB-LOW_offset_40MHz



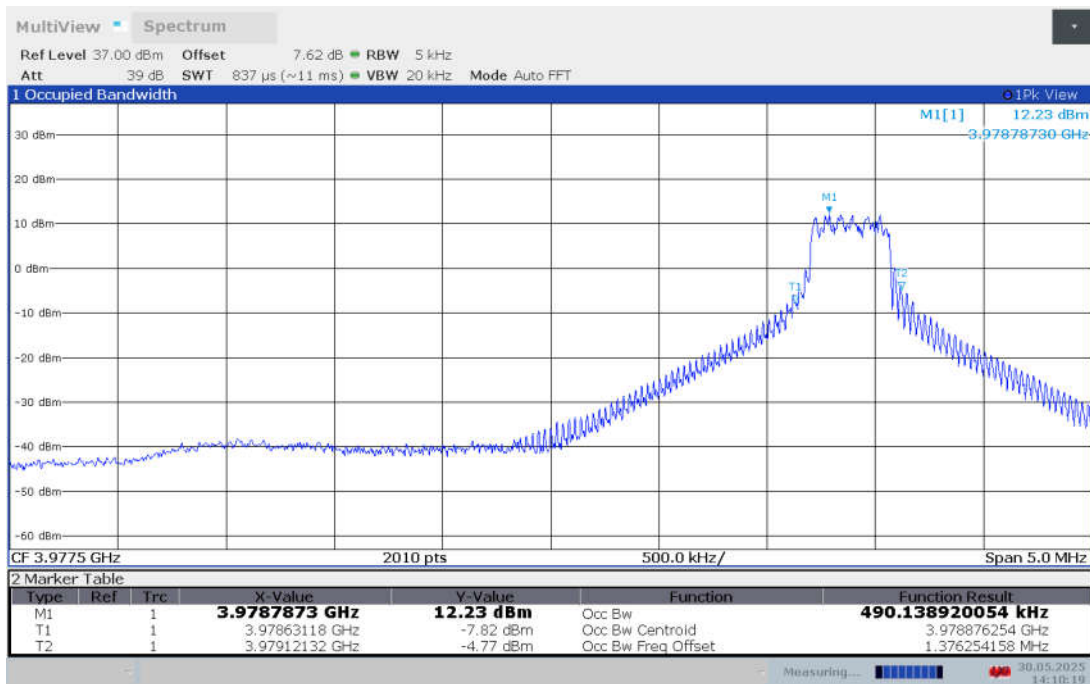
LOW BAND EDGE BLOCK-40MHz-1RB-LOW_offset



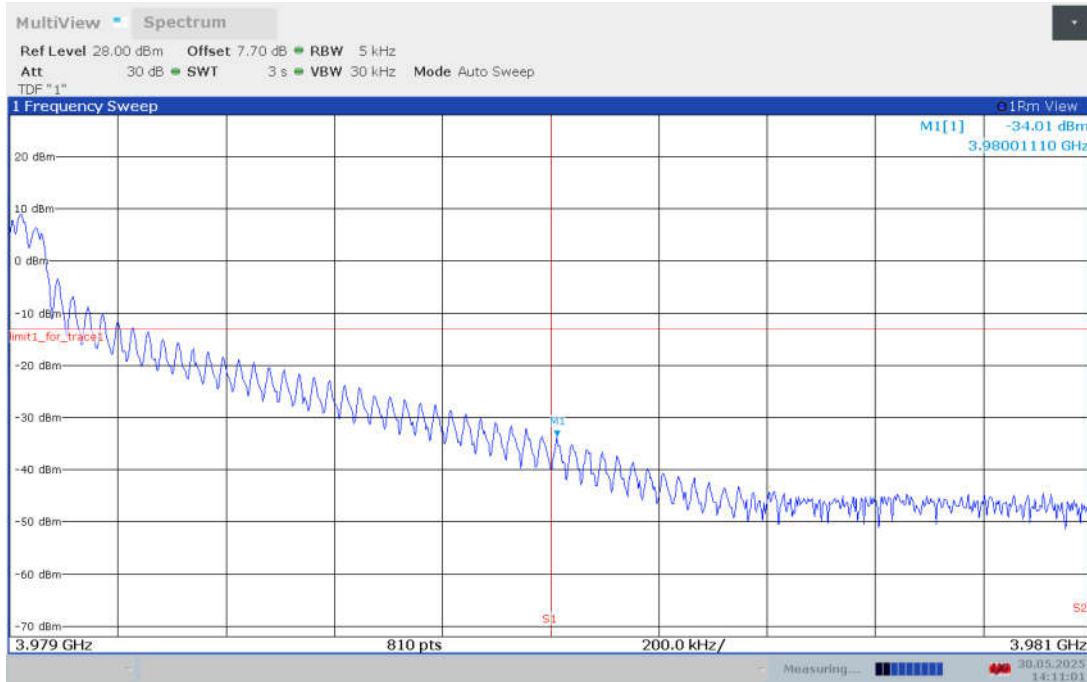
LOW BAND EDGE BLOCK-40MHz-1RB-LOW_offset



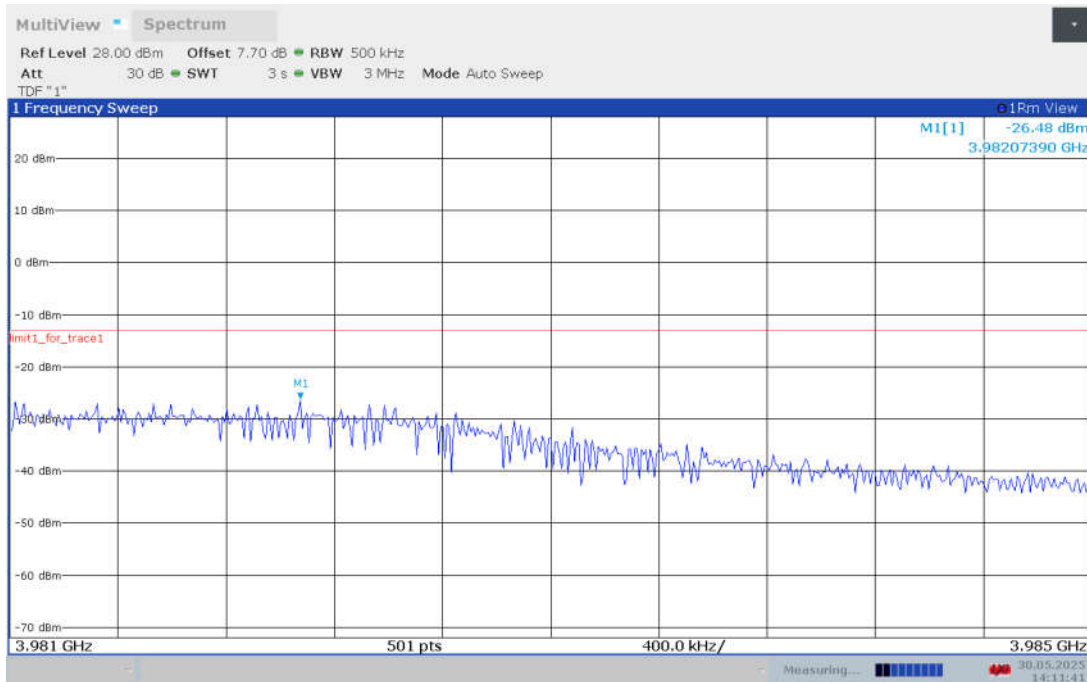
OBW: 1RB-HIGH_offset_40MHz



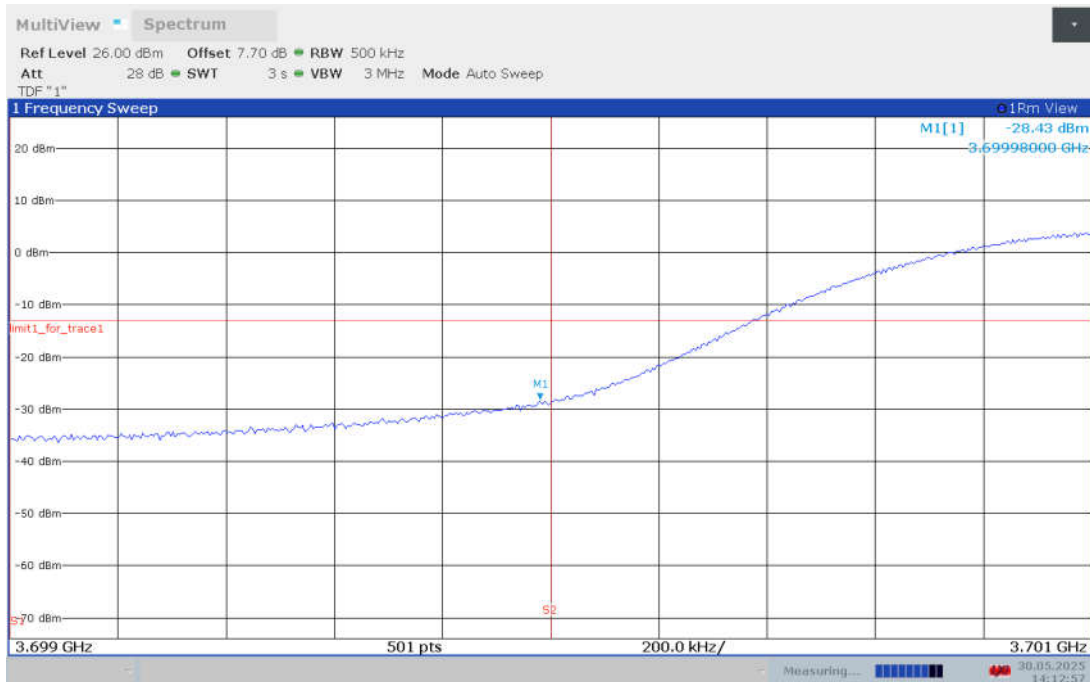
HIGH BAND EDGE BLOCK-40MHz-1RB-HIGH_offset



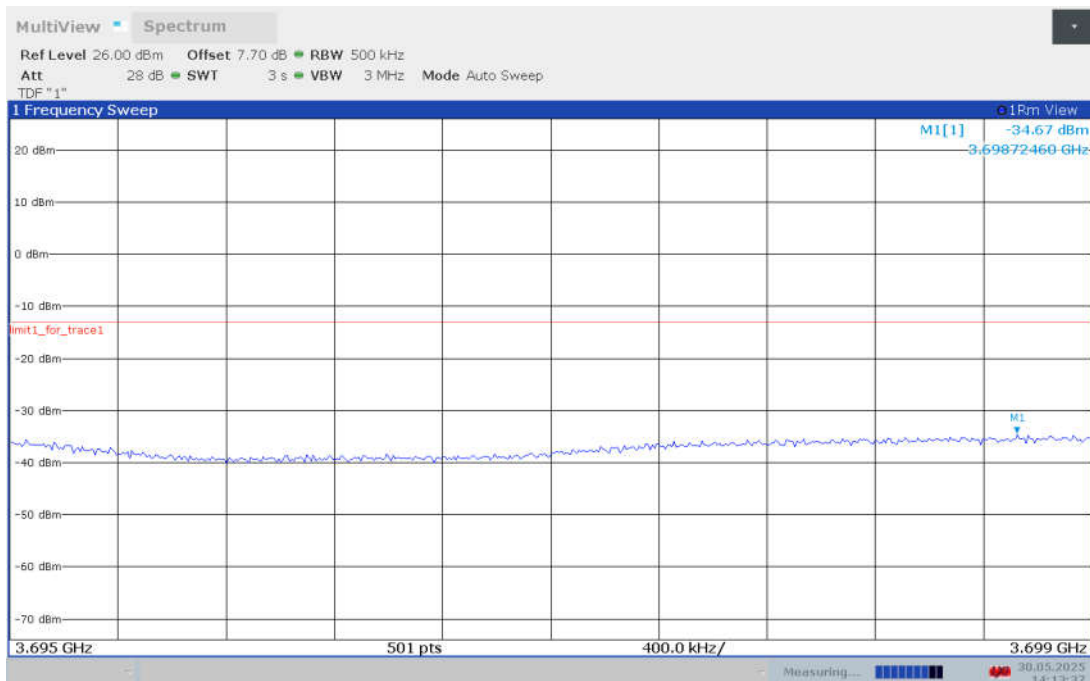
HIGH BAND EDGE BLOCK-40MHz-1RB-HIGH_offset



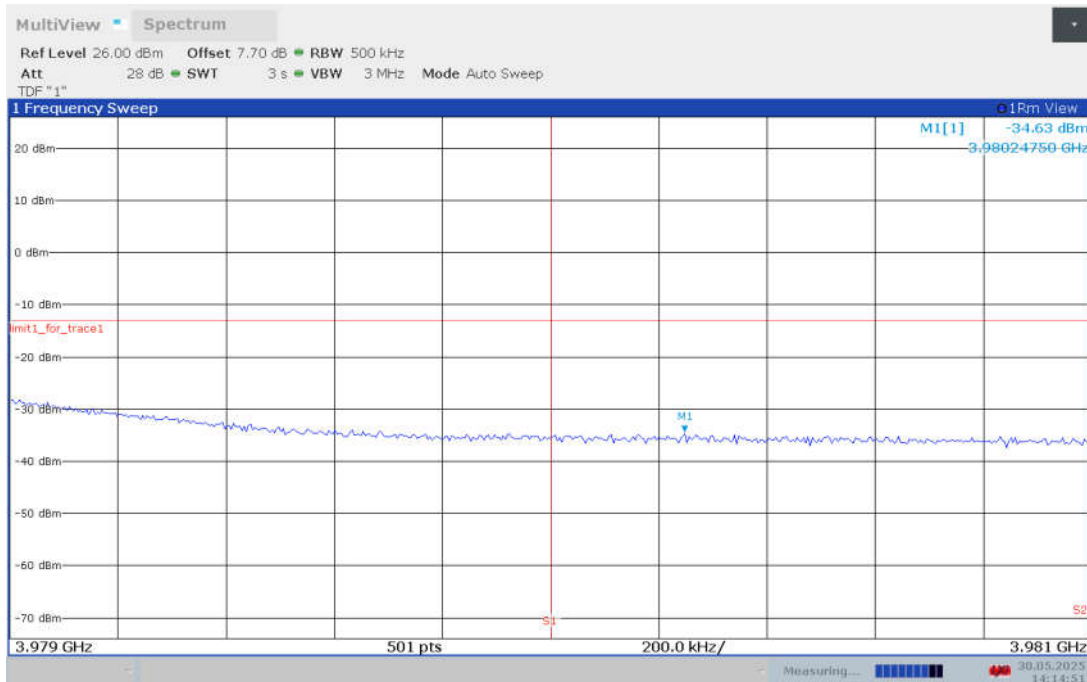
LOW BAND EDGE BLOCK-100MHz-100%RB



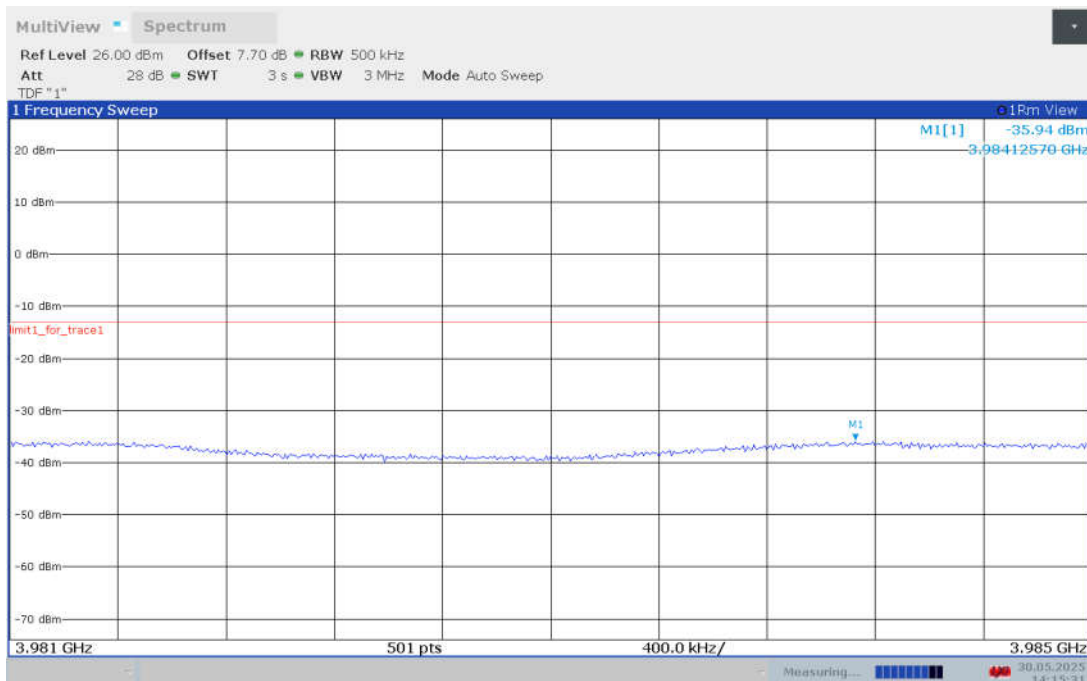
LOW BAND EDGE BLOCK-100MHz-100%RB



HIGH BAND EDGE BLOCK-100MHz-100%RB

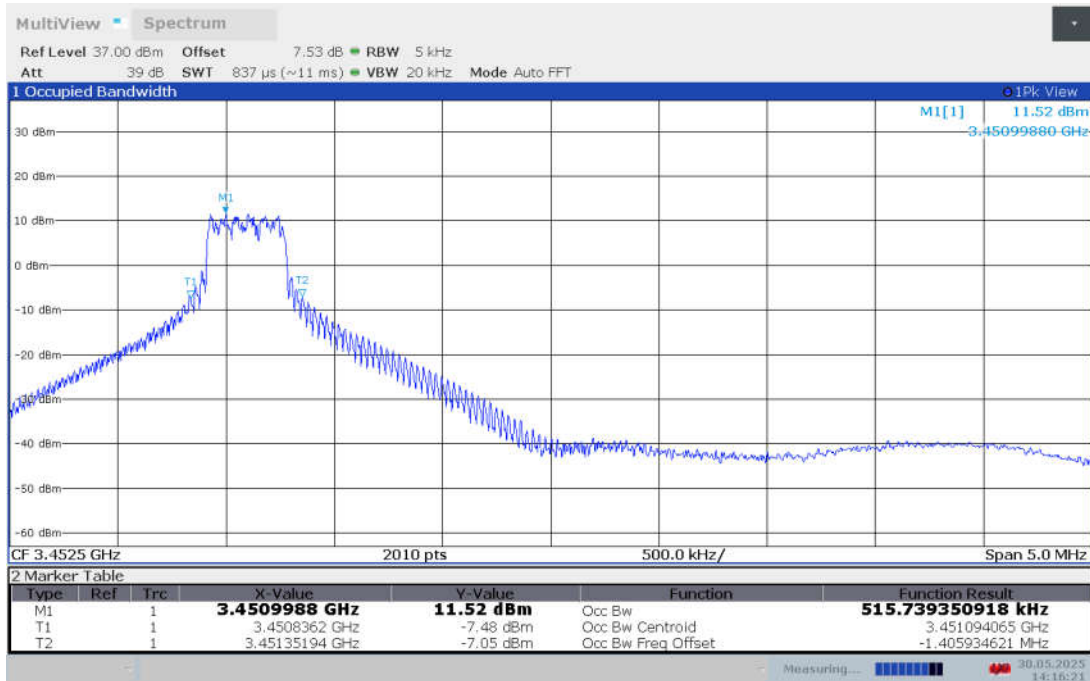


HIGH BAND EDGE BLOCK-100MHz-100%RB

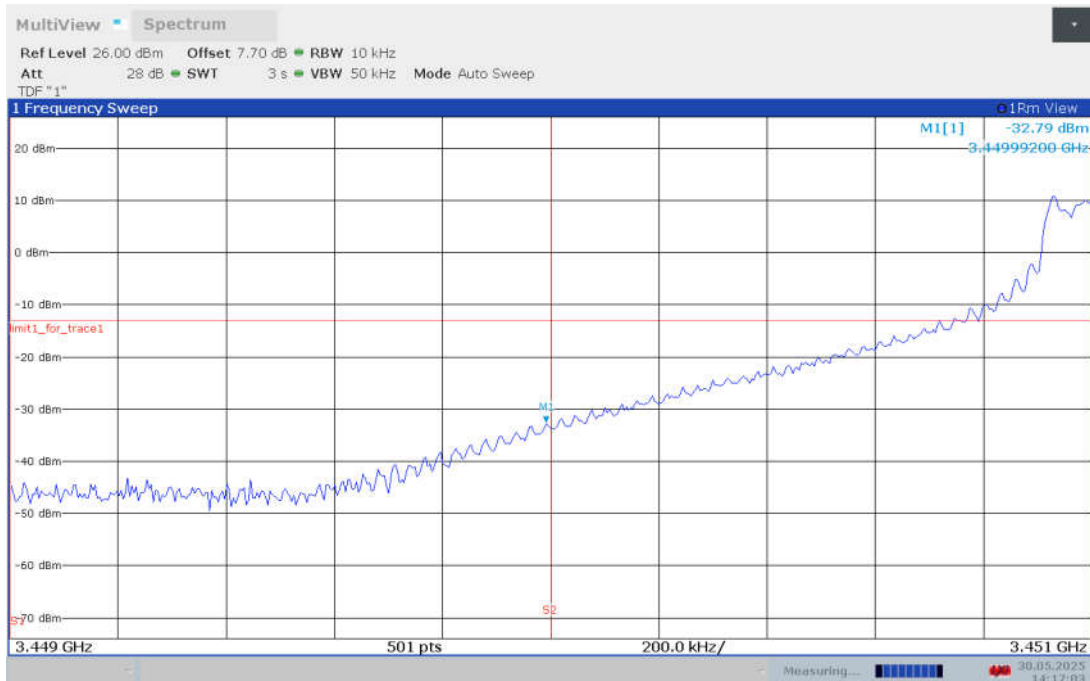


NR n78L

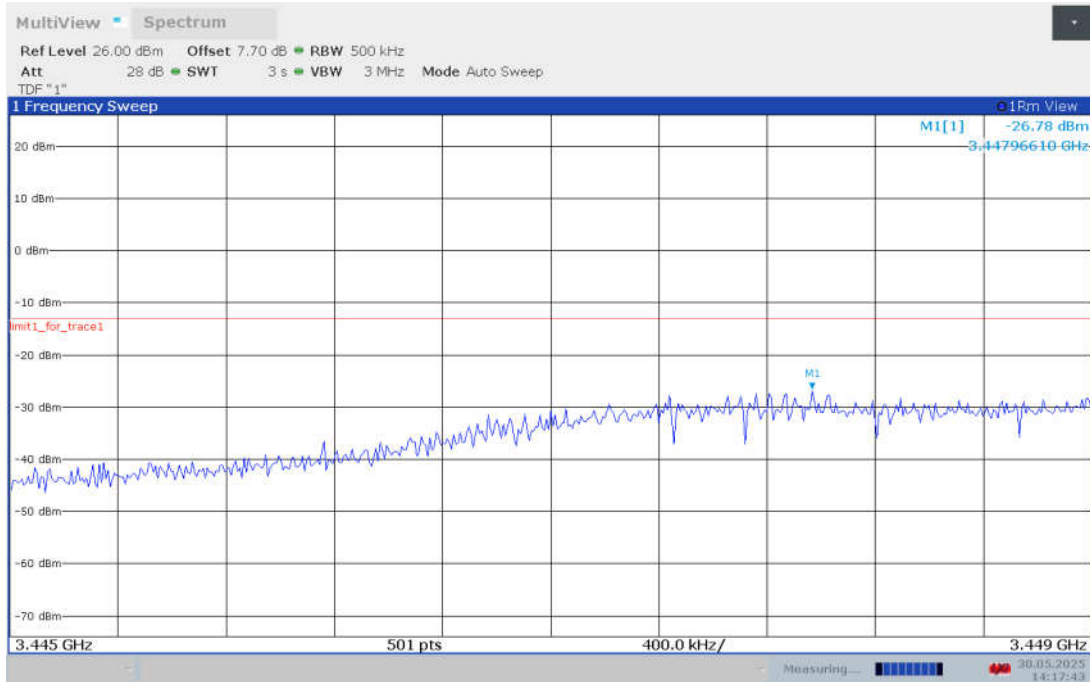
OBW: 1RB-LOW_offset_40MHz



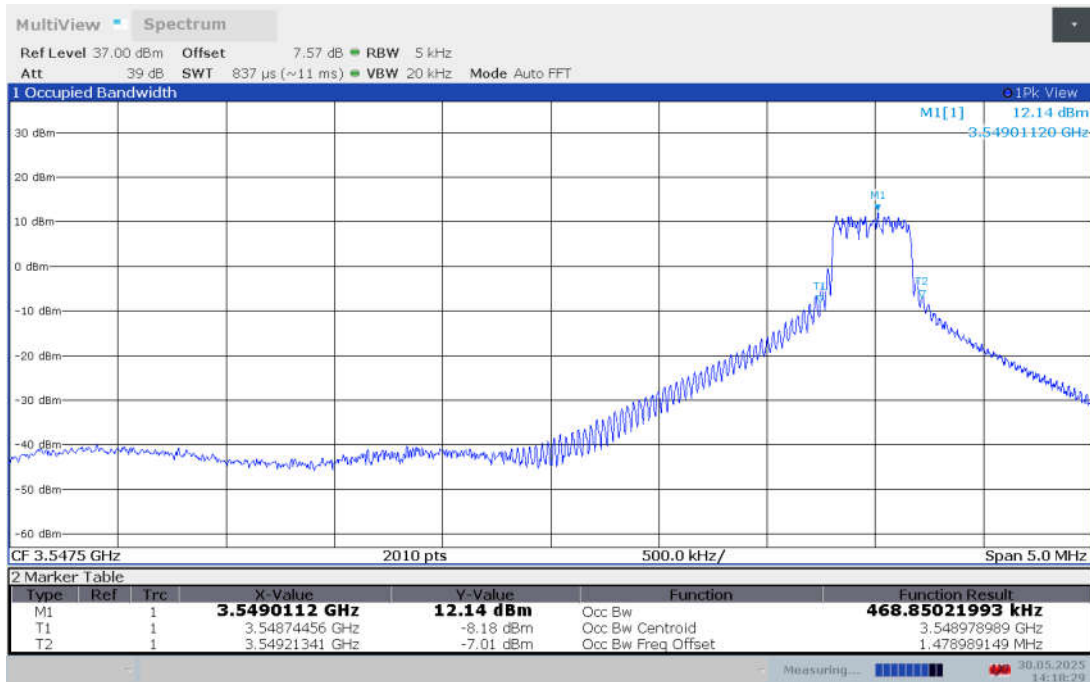
LOW BAND EDGE BLOCK-40MHz-1RB-LOW_offset



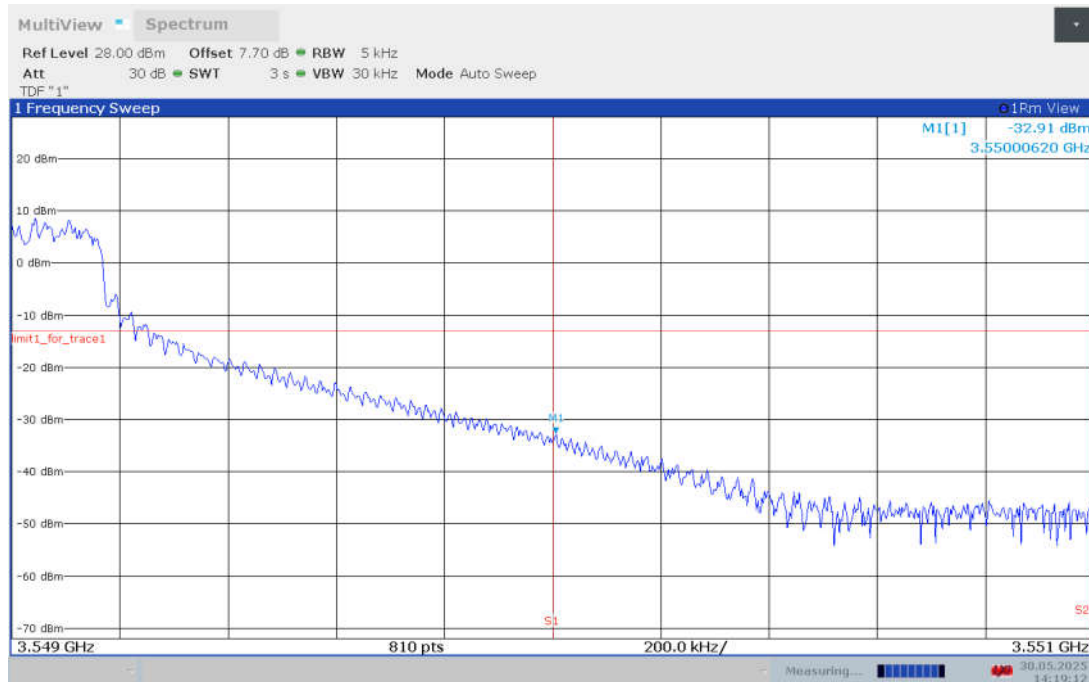
LOW BAND EDGE BLOCK-40MHz-1RB-LOW_offset



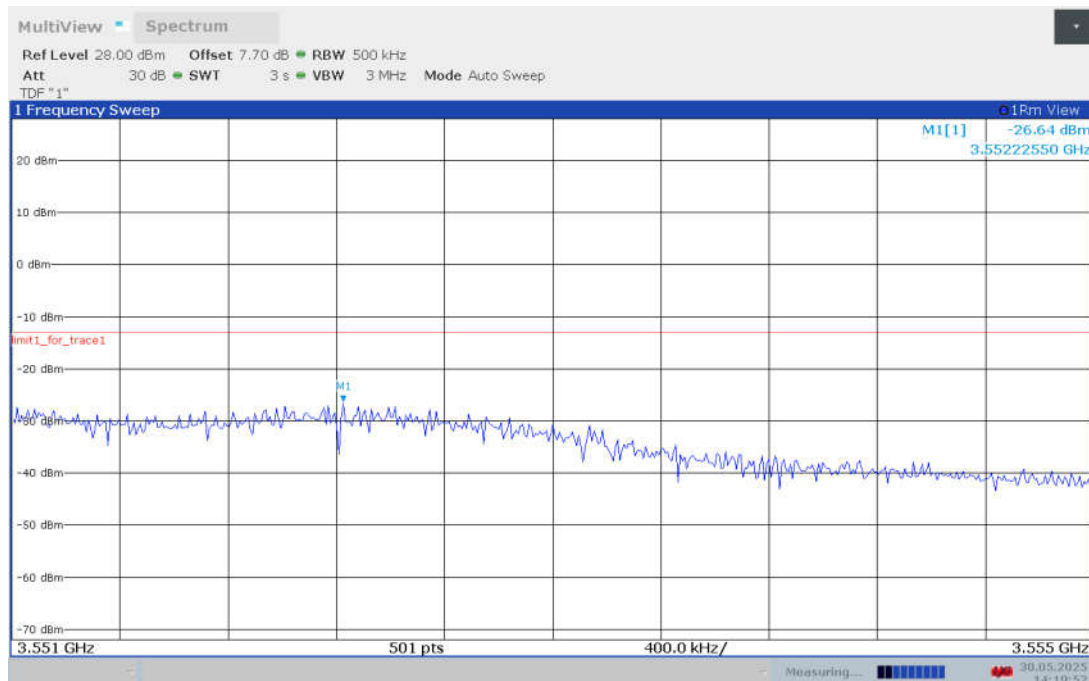
OBW: 1RB-HIGH_offset_20MHz



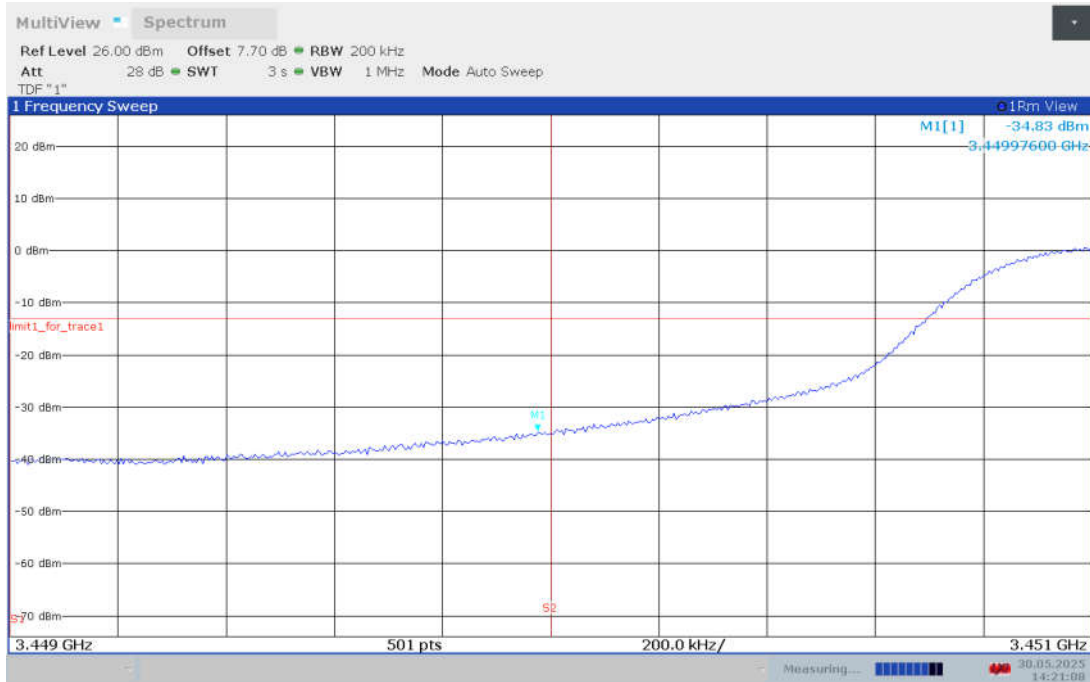
HIGH BAND EDGE BLOCK-20MHz-1RB-HIGH_offset



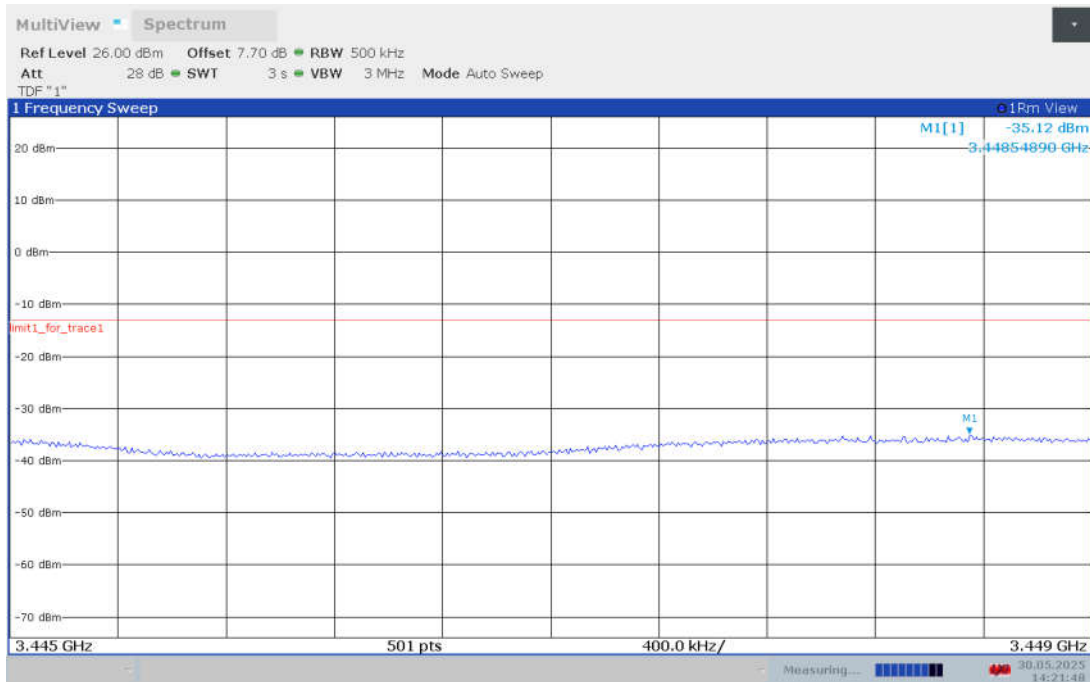
HIGH BAND EDGE BLOCK-20MHz-1RB-HIGH_offset



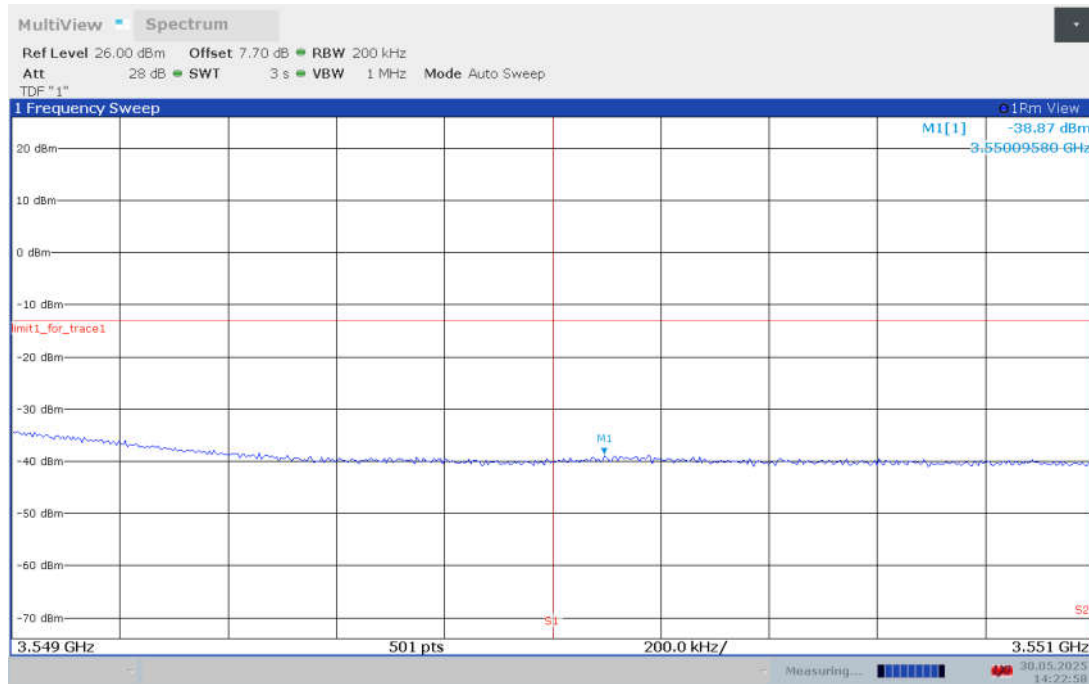
LOW BAND EDGE BLOCK-100MHz-100%RB



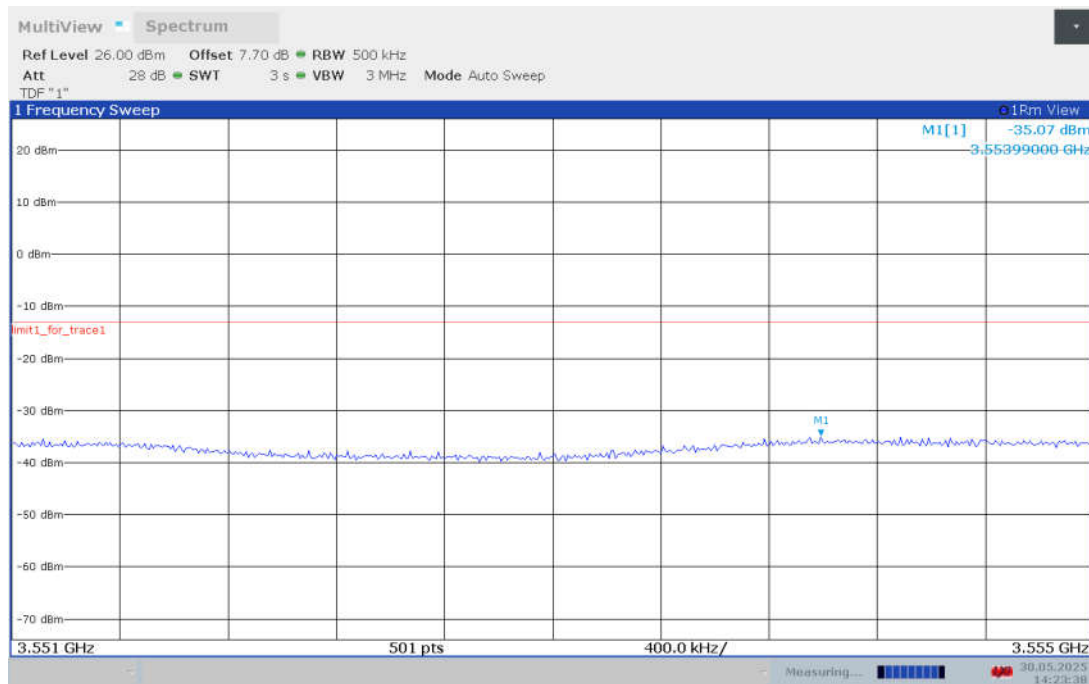
LOW BAND EDGE BLOCK-100MHz-100%RB



HIGH BAND EDGE BLOCK-100MHz-100%RB

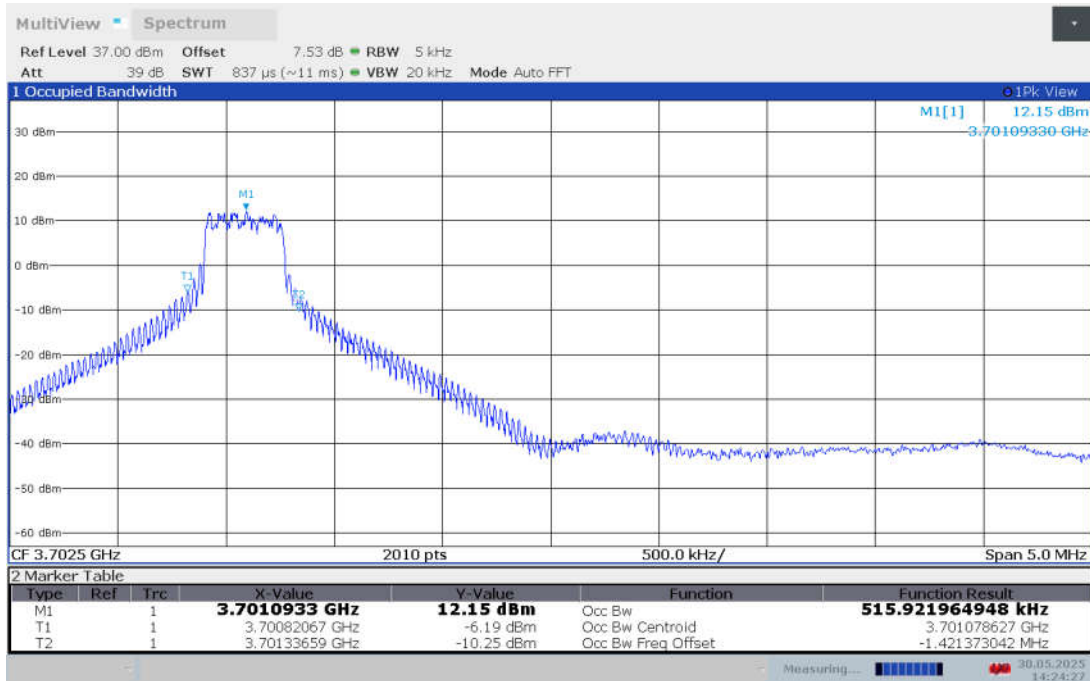


HIGH BAND EDGE BLOCK-100MHz-100%RB

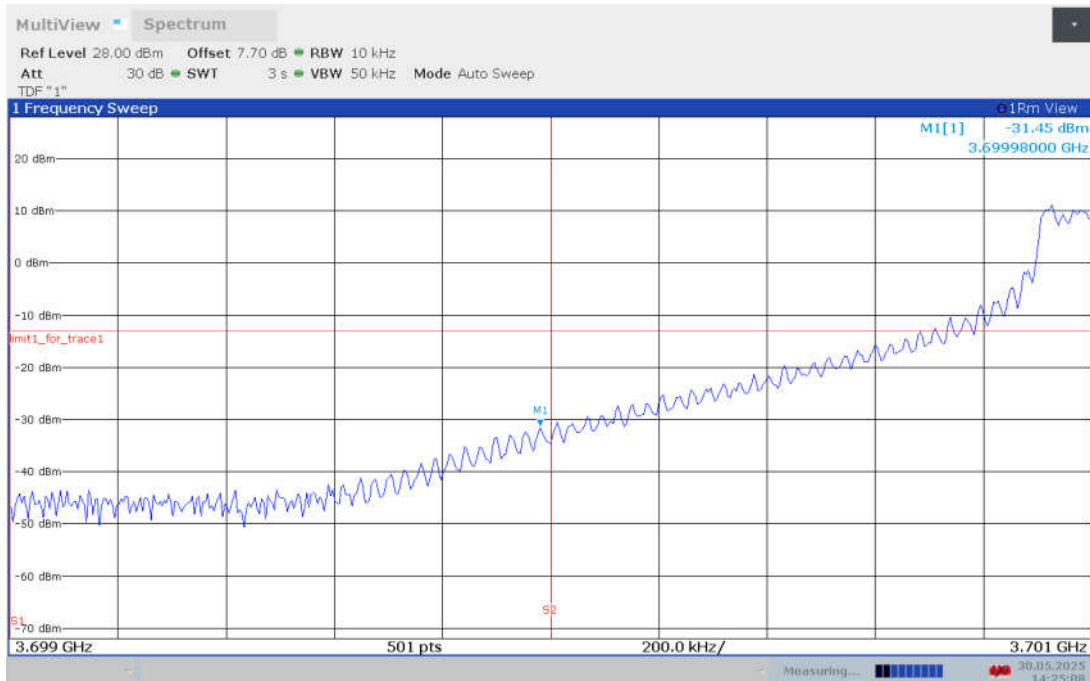


NR n78H

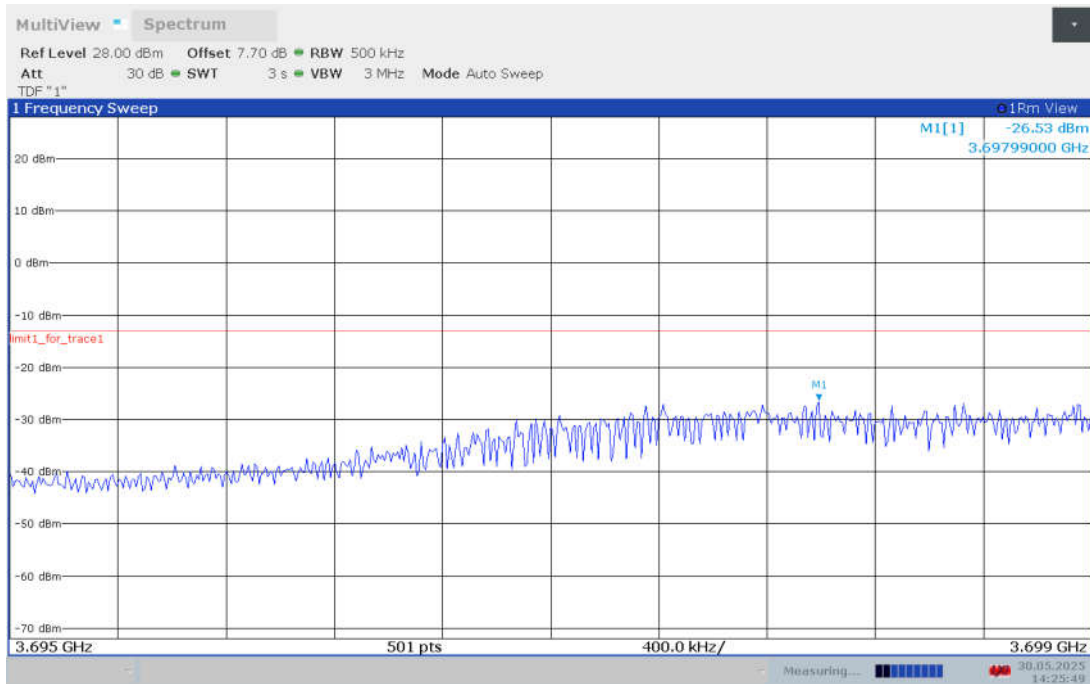
OBW: 1RB-LOW_offset_40MHz



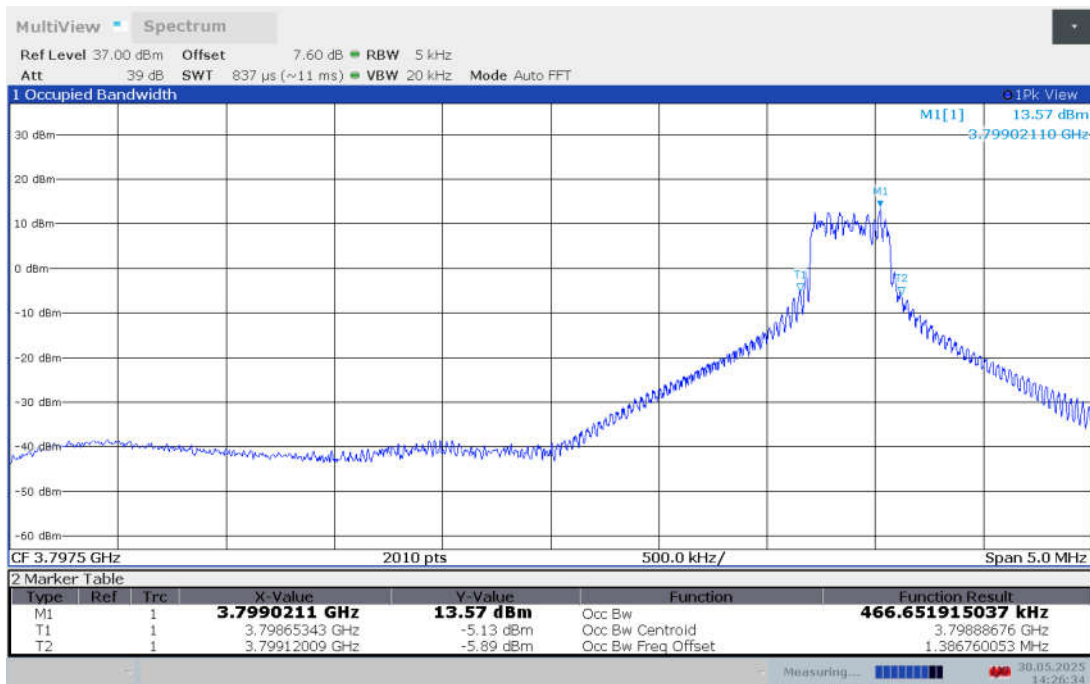
LOW BAND EDGE BLOCK-40MHz-1RB-LOW_offset



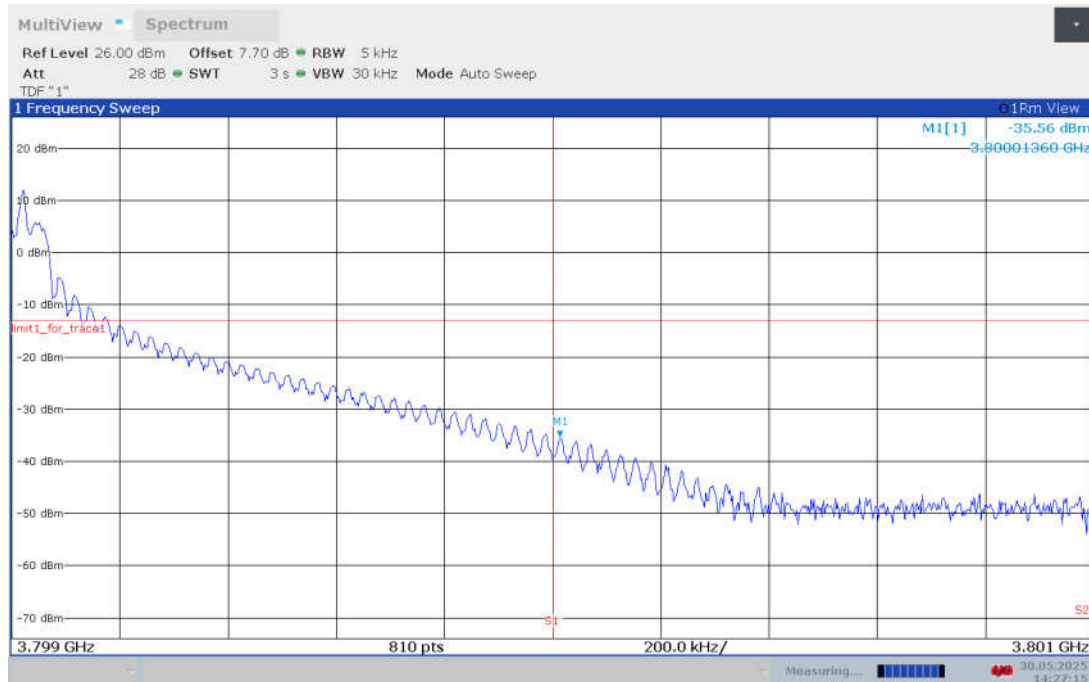
LOW BAND EDGE BLOCK-40MHz-1RB-LOW_offset



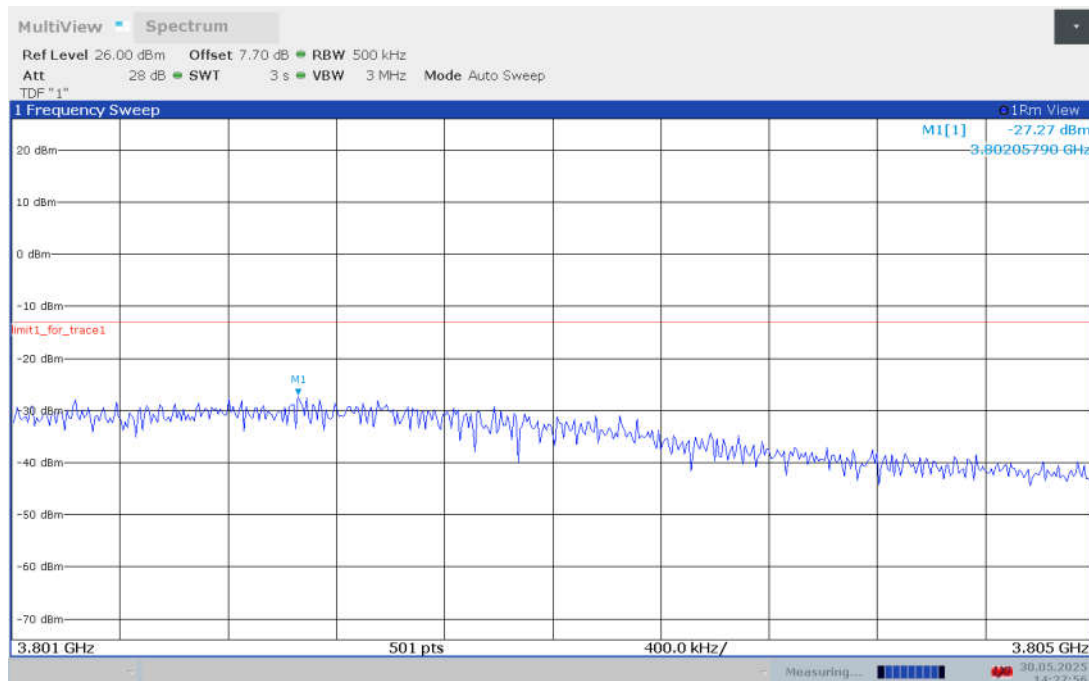
OBW: 1RB-HIGH_offset_40MHz



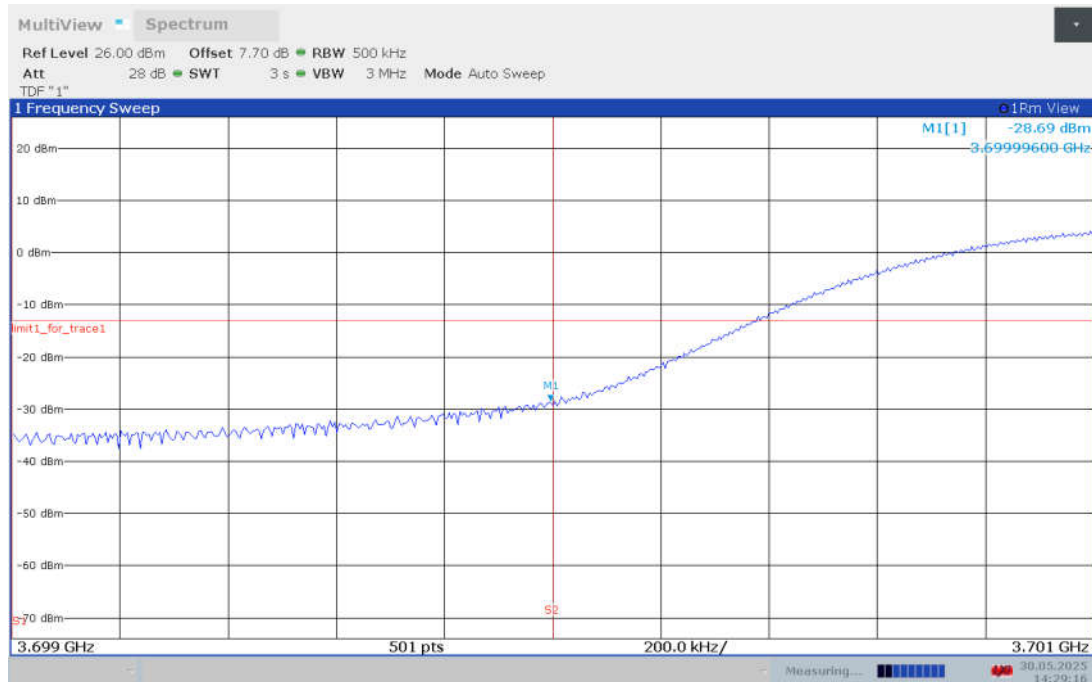
HIGH BAND EDGE BLOCK-40MHz-1RB-HIGH_offset



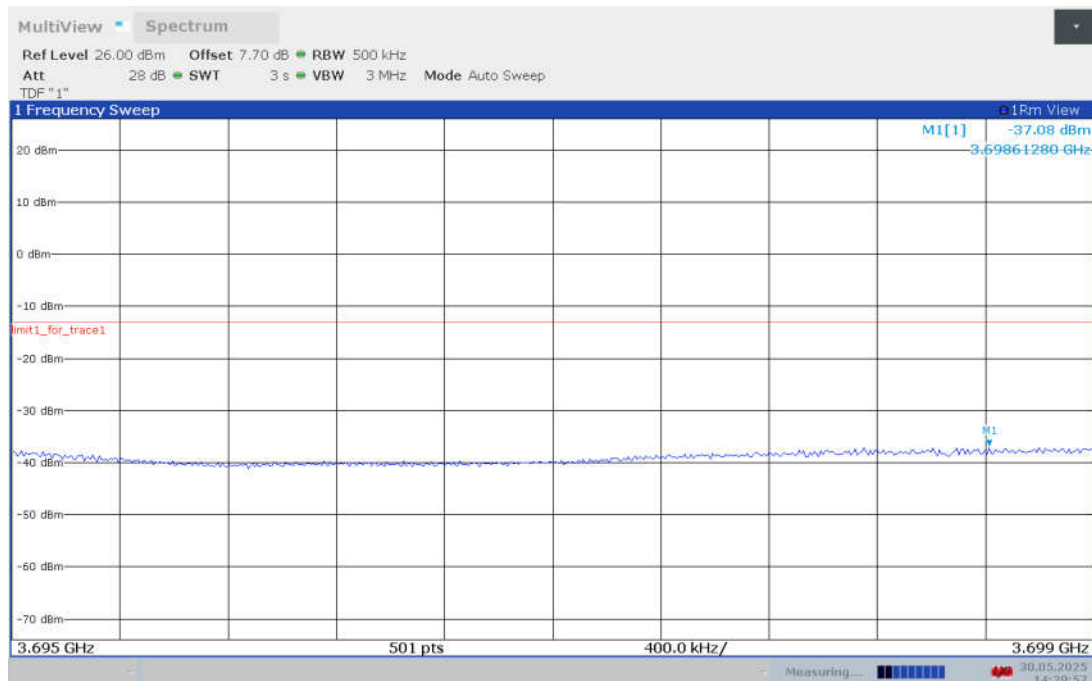
HIGH BAND EDGE BLOCK-40MHz-1RB-HIGH_offset



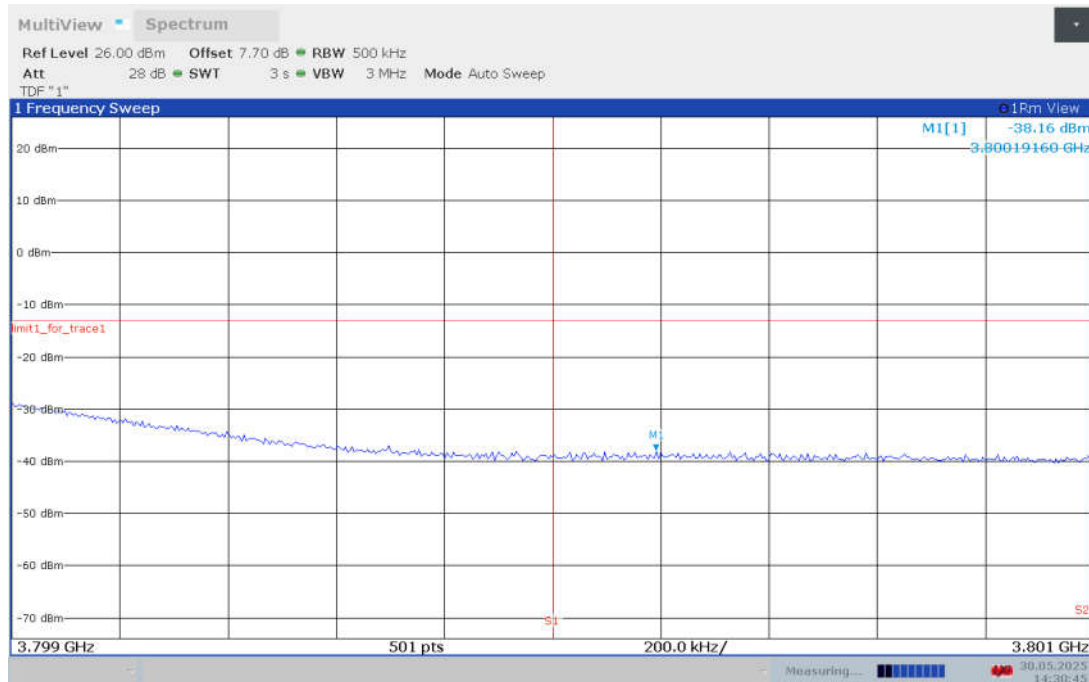
LOW BAND EDGE BLOCK-100MHz-100%RB



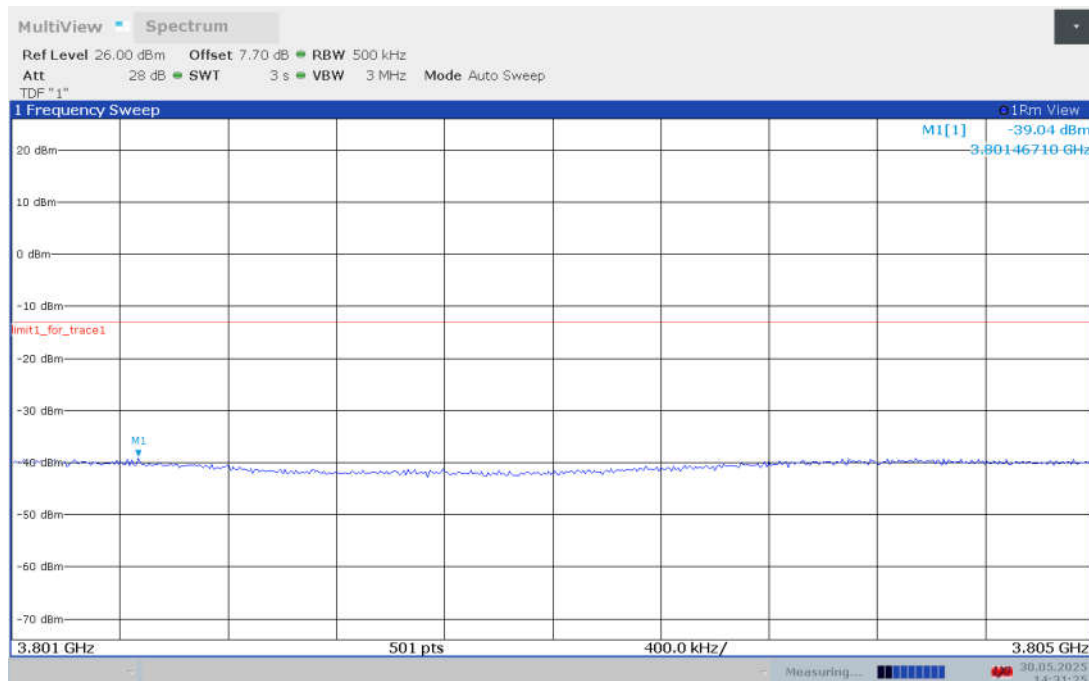
LOW BAND EDGE BLOCK-100MHz-100%RB



HIGH BAND EDGE BLOCK-100MHz-100%RB



HIGH BAND EDGE BLOCK-100MHz-100%RB



Note: Expanded measurement uncertainty is $U = 0.49\text{dB}(100\text{kHz}-2\text{GHz})/1.21\text{dB}(2\text{GHz}-26.5\text{GHz})$, $k = 1.96$

A.7 CONDUCTED SPURIOUS EMISSION

A.7.1 Measurement Method

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. Determine frequency range for measurements: From CFR 2.1051 the spectrum should be investigated from the lowest radio frequency generated in the equipment up to at least the 10th harmonic of the carrier frequency. For the mobile station equipment tested, this equates to a frequency range of 13 MHz to 9 GHz, data taken from 10 MHz to 25 GHz.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.
3. The number of sweep points of spectrum analyzer is set to 30001 which is greater than span/RBW.

A.7.2 Measurement Limit

Part 22.917 and Part 27.53(h) specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

Part 27.53(m)(4) specifies for mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

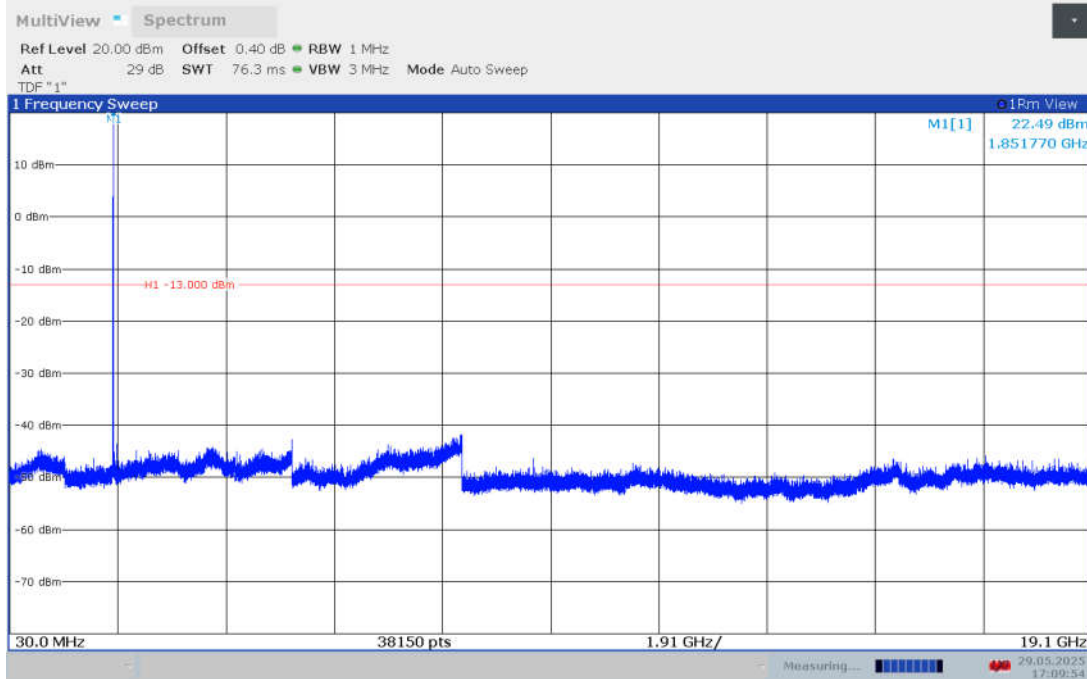
Part 27.53(a) states for mobile and portable stations operating in the 2305–2315 MHz and 2350–2360 MHz bands: By a factor of not less than: $43 + 10 \log(P)$ dB on all frequencies between 2305 and 2320 MHz and on all frequencies between 2345 and 2360 MHz that are outside the licensed band(s) of operation, not less than $55 + 10 \log(P)$ dB on all frequencies between 2320 and 2324 MHz and on all frequencies between 2341 and 2345 MHz, not less than $61 + 10 \log(P)$ dB on all frequencies between 2324 and 2328 MHz and on all frequencies between 2337 and 2341 MHz, and not less than $67 + 10 \log(P)$ dB on all frequencies between 2328 and 2337 MHz; By a factor of not less than $43 + 10 \log(P)$ dB on all frequencies between 2300 and 2305 MHz, $55 + 10 \log(P)$ dB on all frequencies between 2296 and 2300 MHz, $61 + 10 \log(P)$ dB on all frequencies between 2292 and 2296 MHz, $67 + 10 \log(P)$ dB on all frequencies between 2288 and 2292 MHz, and $70 + 10 \log(P)$ dB below 2288 MHz; By a factor of not less than $43 + 10 \log(P)$

dB on all frequencies between 2360 and 2365 MHz, and not less than $70 + 10 \log(P)$ dB above 2365 MHz.

A.7.3 Measurement result

n2

NOTE: peak above the limit line is the carrier frequency.



n5

NOTE: peak above the limit line is the carrier frequency.

