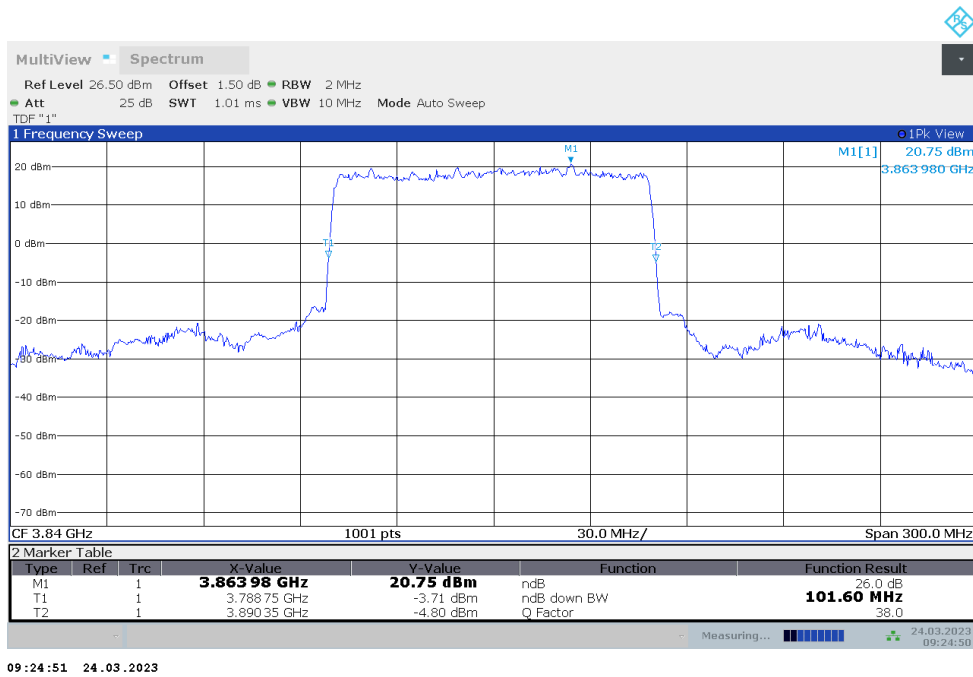


n77H

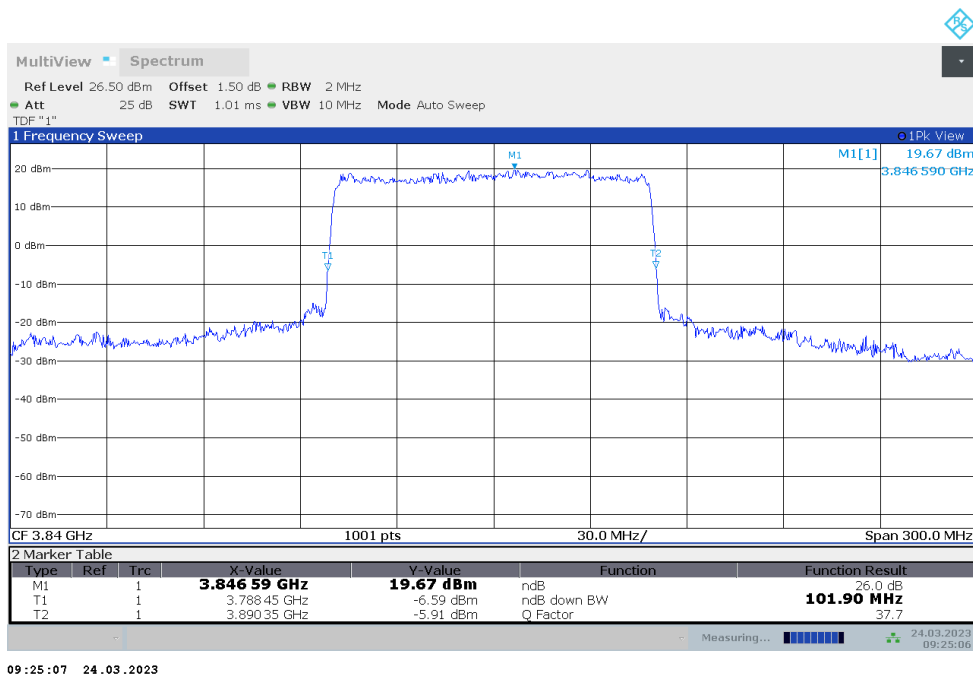
n77H,100MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	DFT-s-pi/2 BPSK	DFT-s-QPSK
3840	101.600	101.900

n77H,100MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n77H,100MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

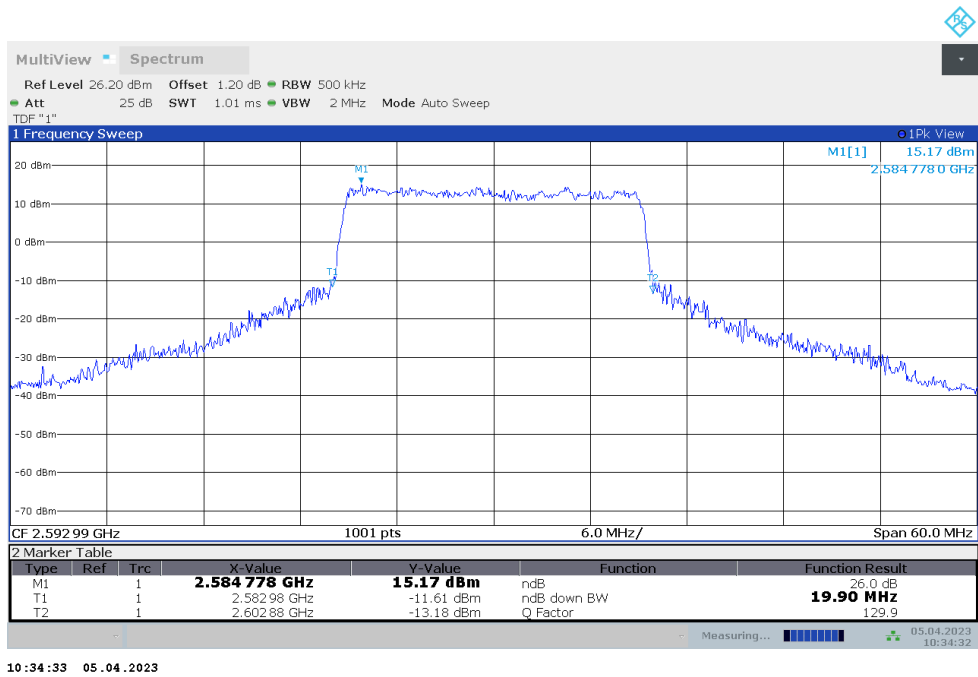


### n41-MIMO

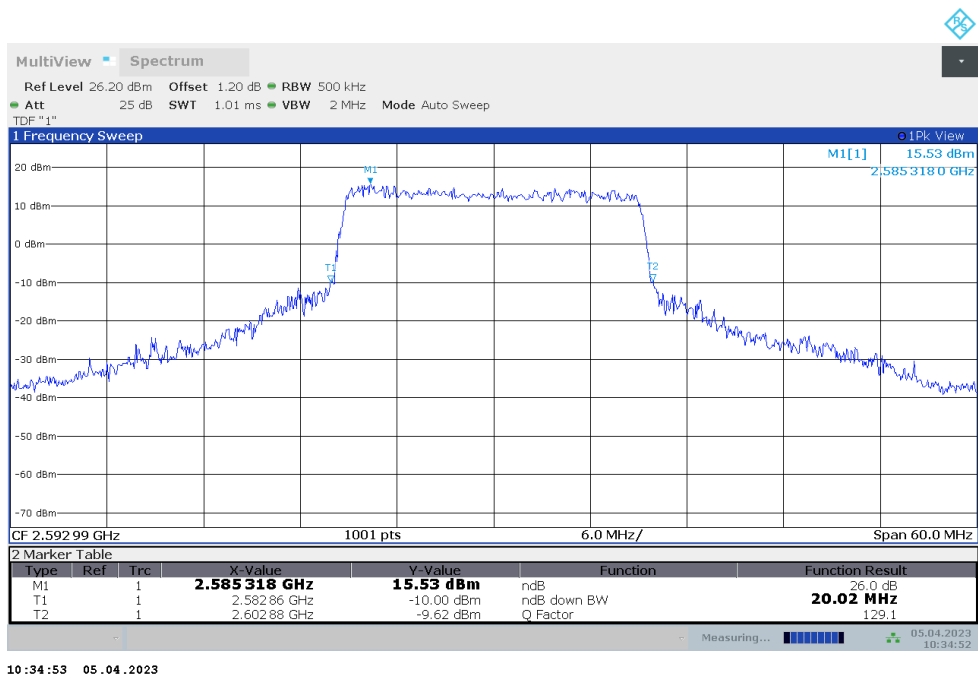
#### n41-MIMO,20MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
2592.99	19.900	20.020

#### n41,20MHz Bandwidth,CP QPSK (-26dBc BW)

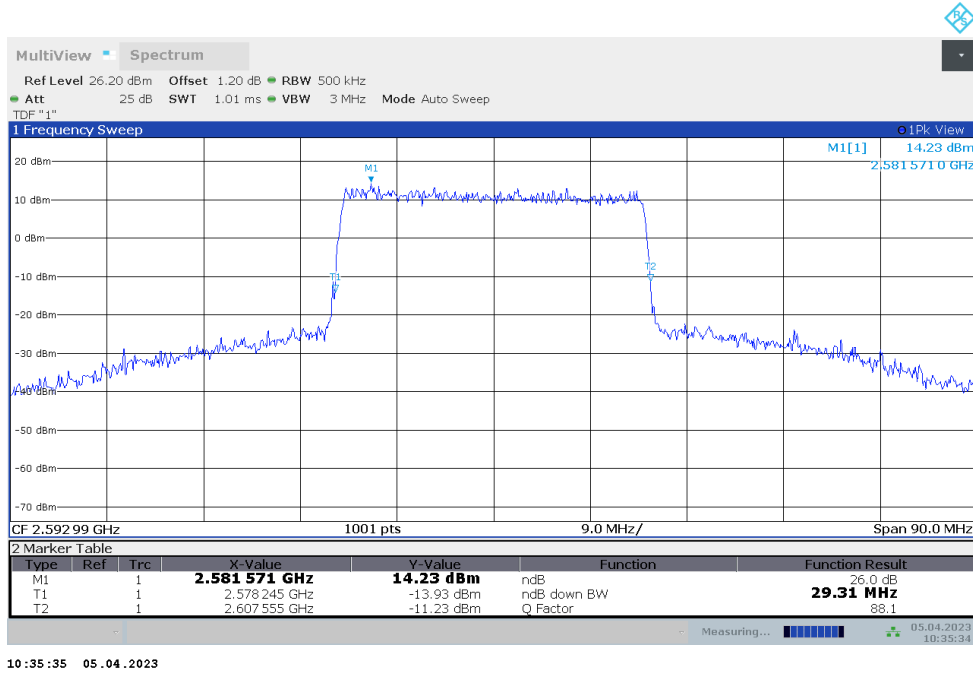
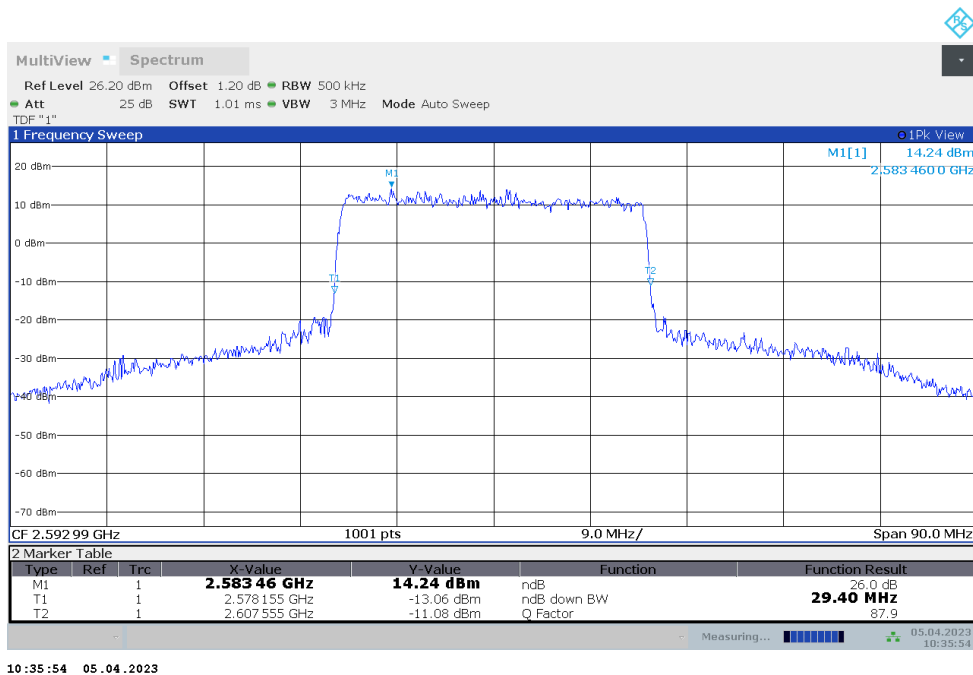


#### n41,20MHz Bandwidth,CP 16QAM (-26dBc BW)



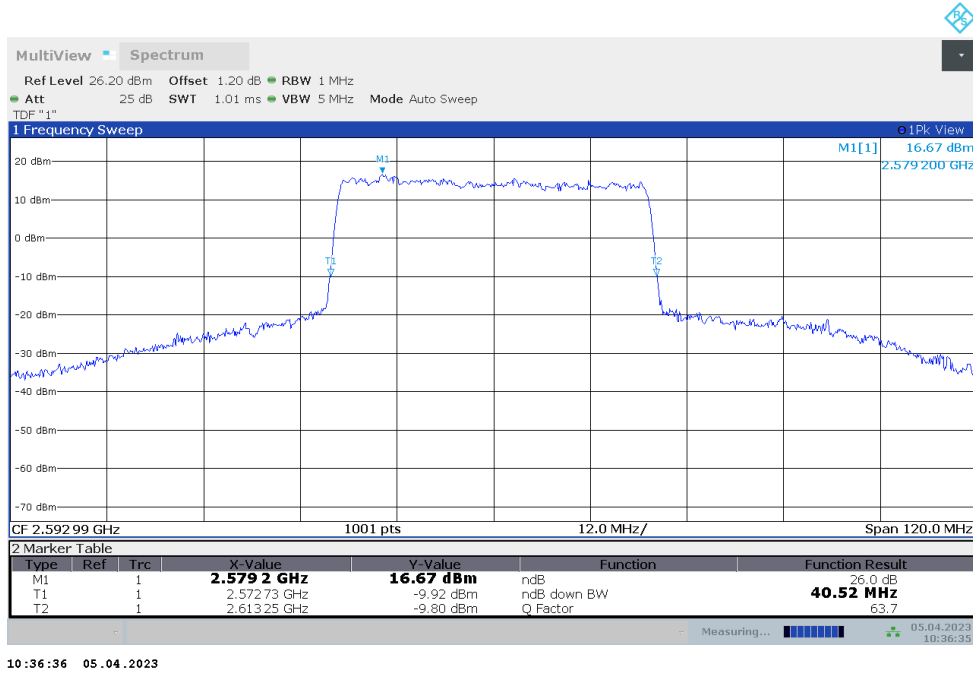
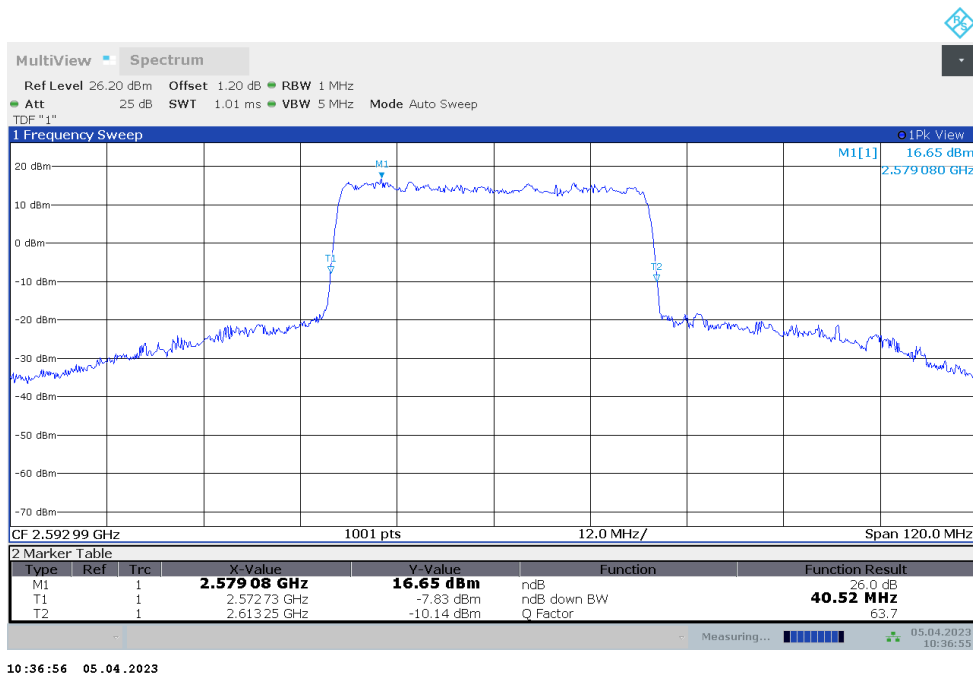
**n41-MIMO,30MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
2592.99	29.311	29.401

**n41,30MHz Bandwidth,CP QPSK (-26dBc BW)**

**n41,30MHz Bandwidth,CP 16QAM (-26dBc BW)**


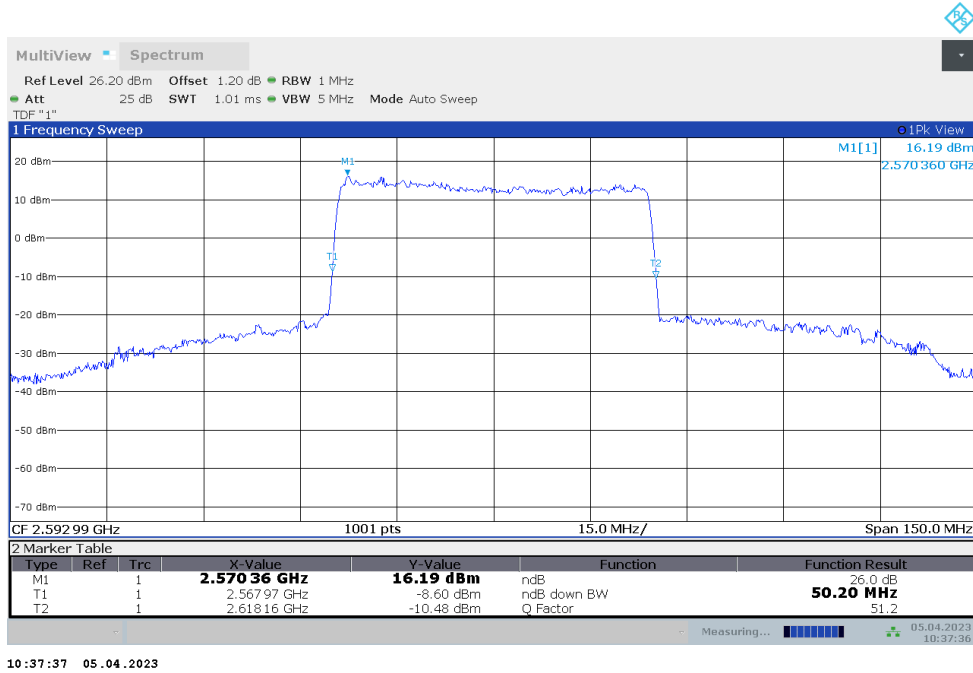
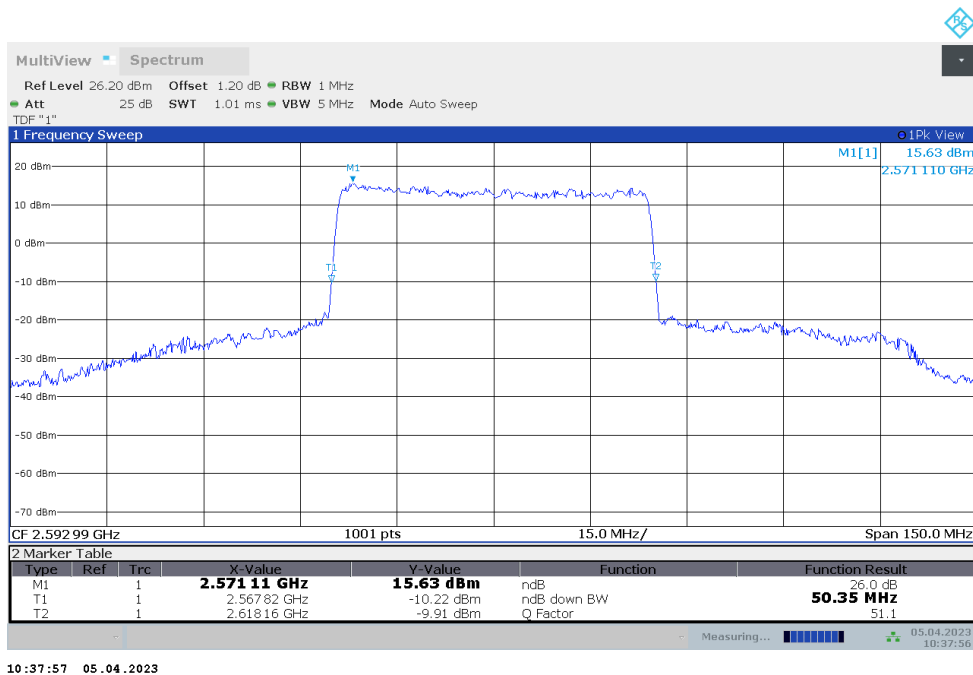
**n41-MIMO,40MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
2592.99	40.520	40.520

**n41,40MHz Bandwidth,CP QPSK (-26dBc BW)**

**n41,40MHz Bandwidth,CP 16QAM (-26dBc BW)**


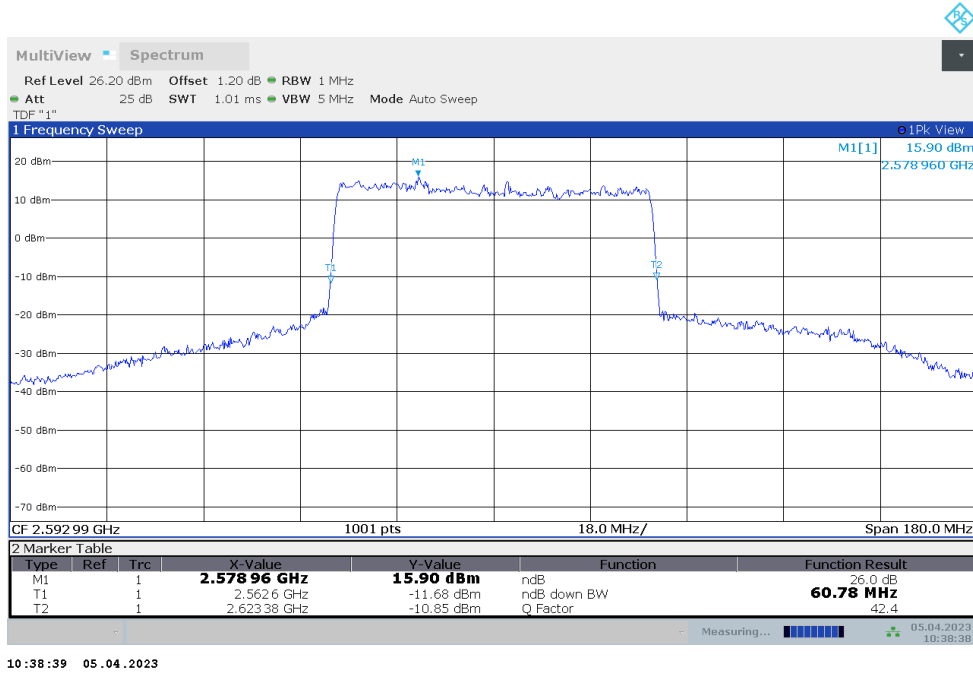
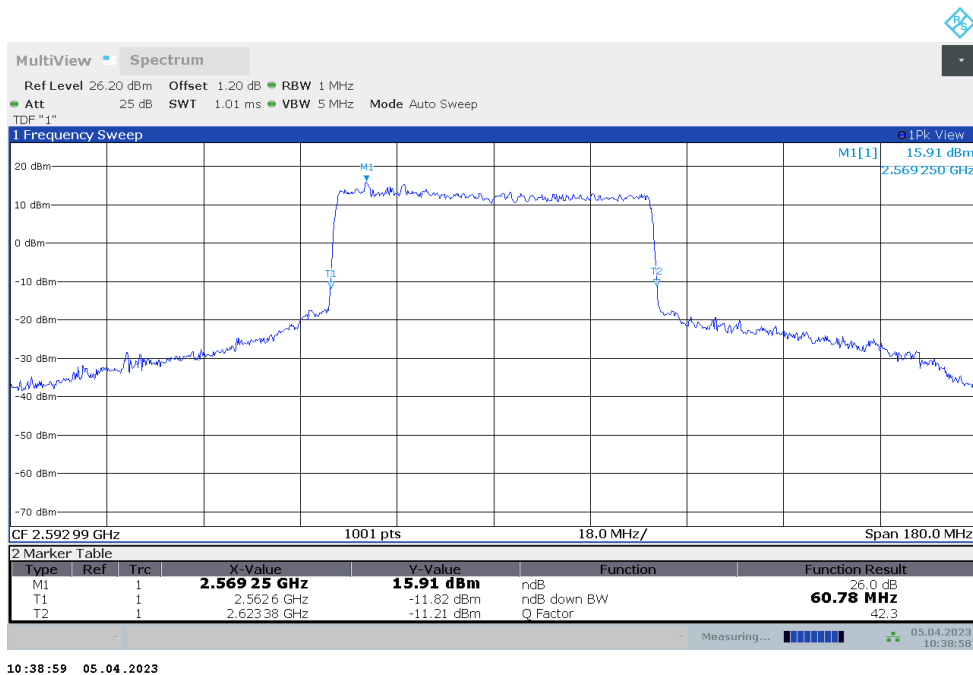
**n41-MIMO,50MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
2592.99	50.200	50.350

**n41,50MHz Bandwidth,CP QPSK (-26dBc BW)**

**n41,50MHz Bandwidth,CP 16QAM (-26dBc BW)**


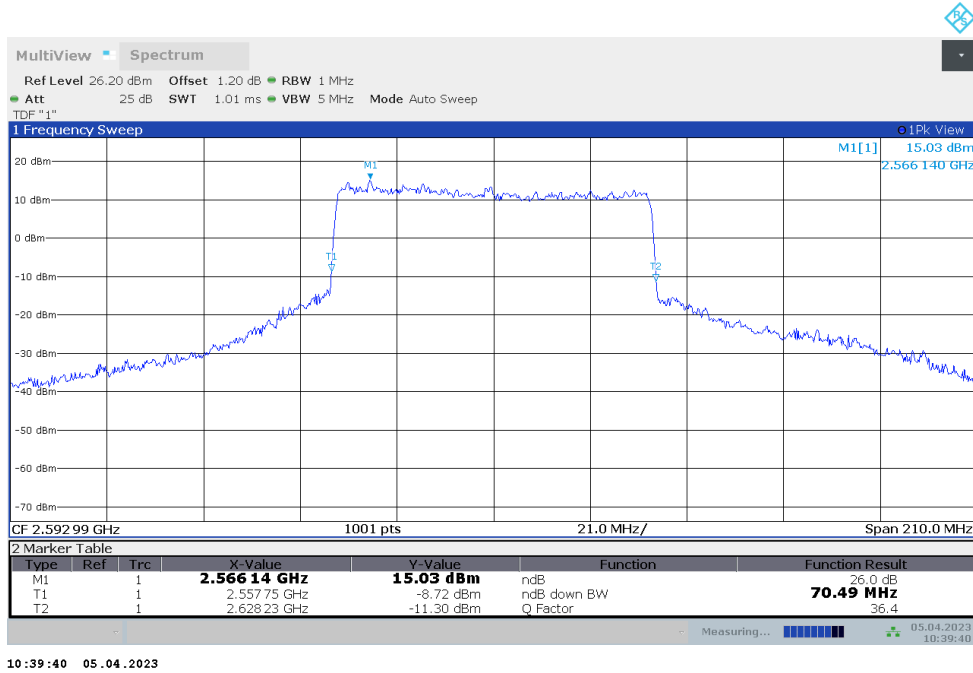
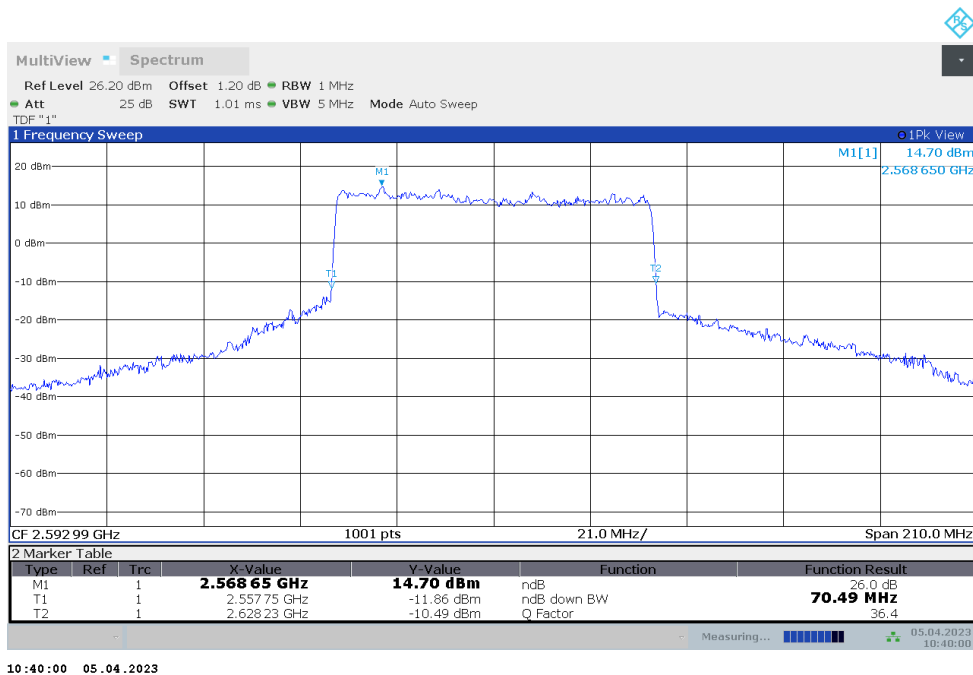
**n41-MIMO,60MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
2592.99	60.780	60.780

**n41,60MHz Bandwidth,CP QPSK (-26dBc BW)**

**n41,60MHz Bandwidth,CP 16QAM (-26dBc BW)**


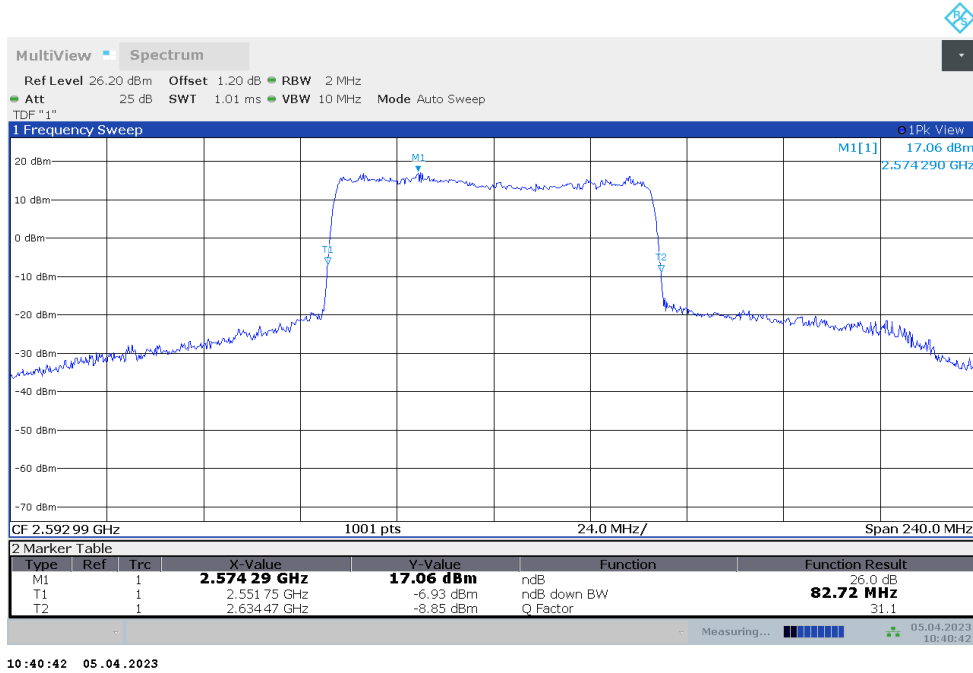
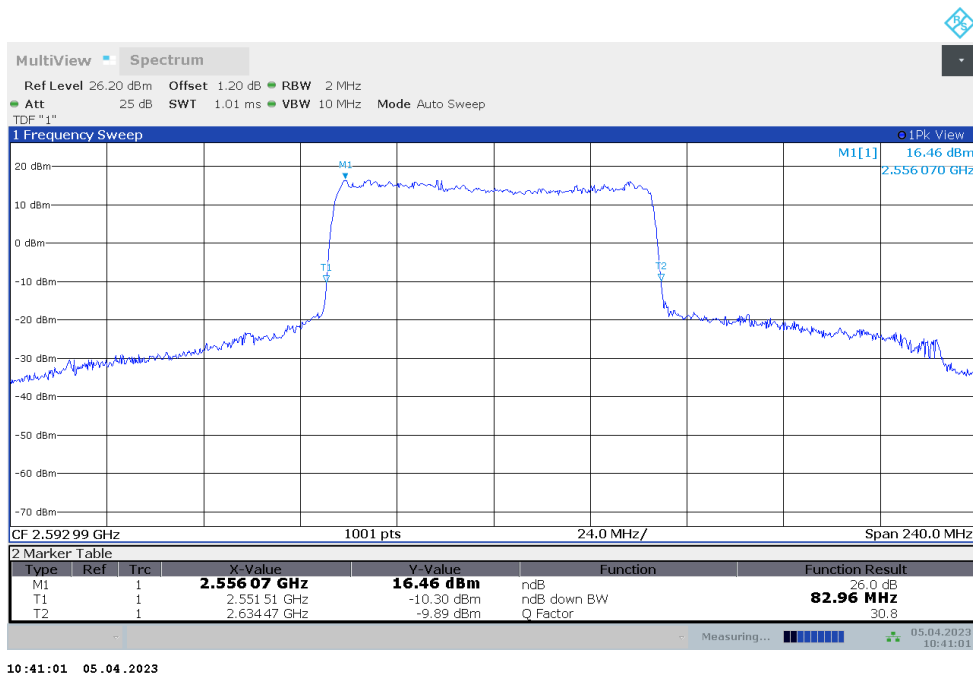
**n41-MIMO,70MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
2592.99	70.490	70.490

**n41,70MHz Bandwidth,CP QPSK (-26dBc BW)**

**n41,70MHz Bandwidth,CP 16QAM (-26dBc BW)**


**n41-MIMO,80MHz(-26dBc)**

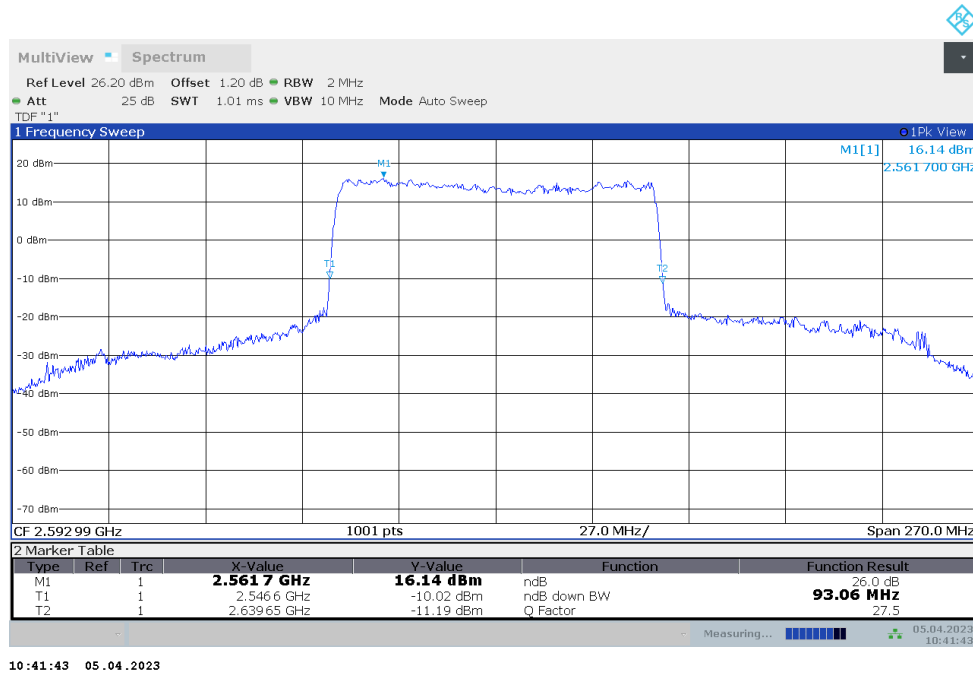
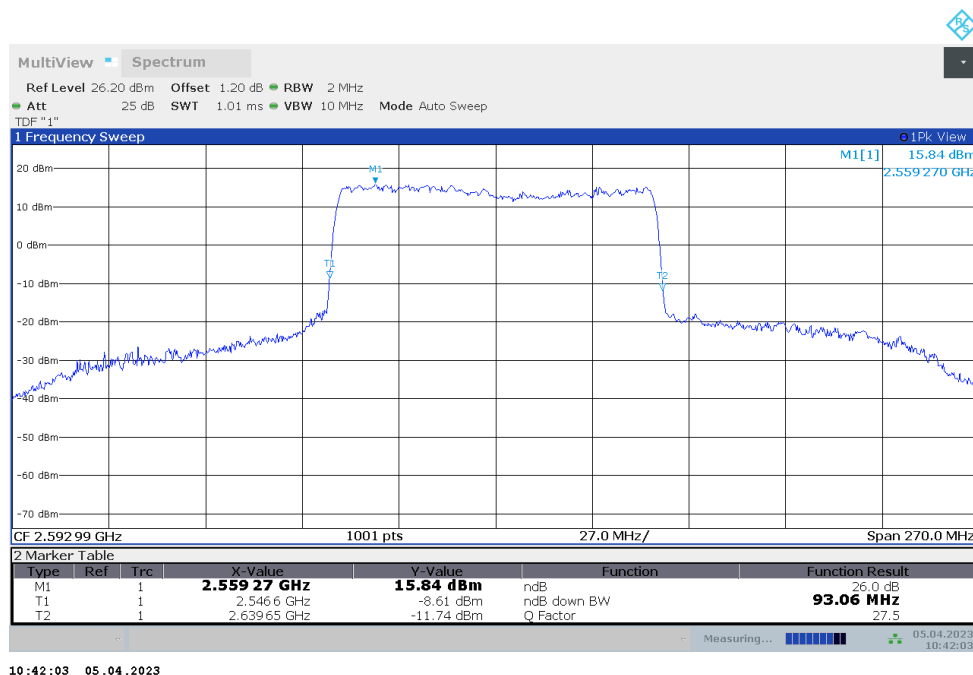
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
2592.99	82.720	82.960

**n41,80MHz Bandwidth,CP QPSK (-26dBc BW)**

**n41,80MHz Bandwidth,CP 16QAM (-26dBc BW)**




**n41-MIMO,90MHz(-26dBc)**

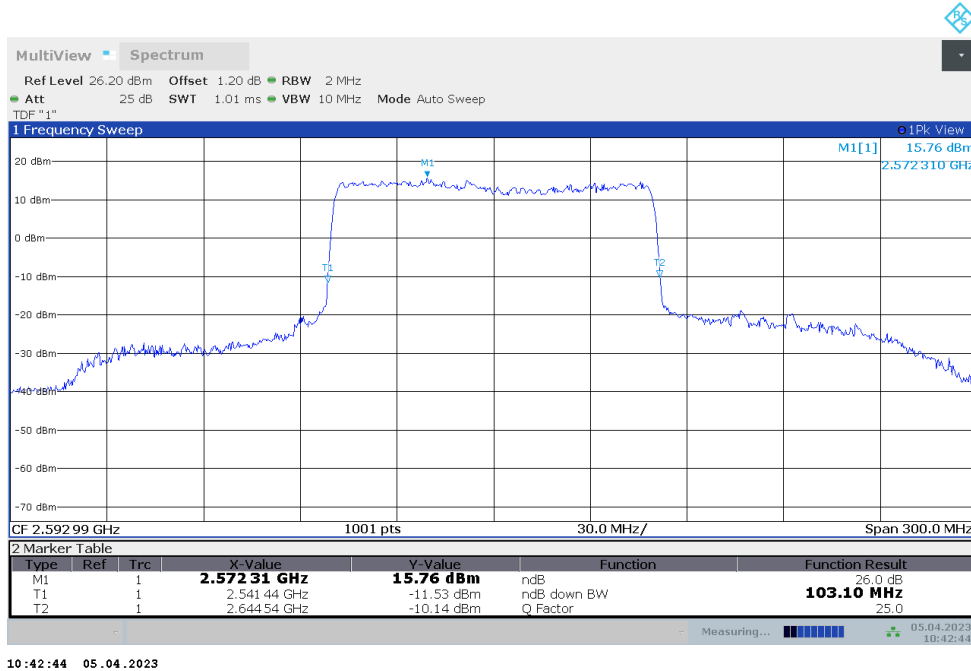
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
2592.99	93.060	93.060

**n41,90MHz Bandwidth,CP QPSK (-26dBc BW)**

**n41,90MHz Bandwidth,CP 16QAM (-26dBc BW)**


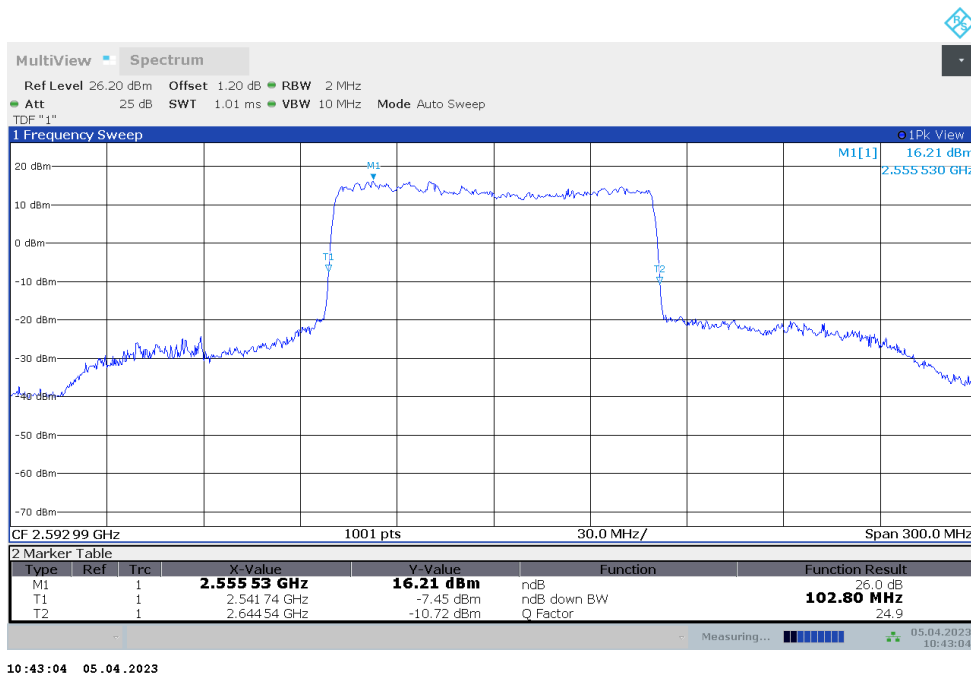
### n41-MIMO,100MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
2592.99	103.100	102.800

### n41,100MHz Bandwidth,CP QPSK (-26dBc BW)



### n41,100MHz Bandwidth,CP 16QAM (-26dBc BW)



Note: The maximum value of expanded measurement uncertainty for this test item is  $U = 0.626$  kHz,  $k = 2$ .

## **A.6 Band Edge Compliance**

### **A.6.1 Measurement limit**

Part 24.238 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.

Part 27.53(m) 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(g) states for operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log(P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

Part 27.53(n) states for mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed  $-13$  dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

Part 27.53(l) states for mobile operations in the 3700-3980 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed  $-13$  dBm/MHz.

Compliance with this paragraph (l)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be either one percent of the emission bandwidth of the fundamental emission of the transmitter or 350 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall



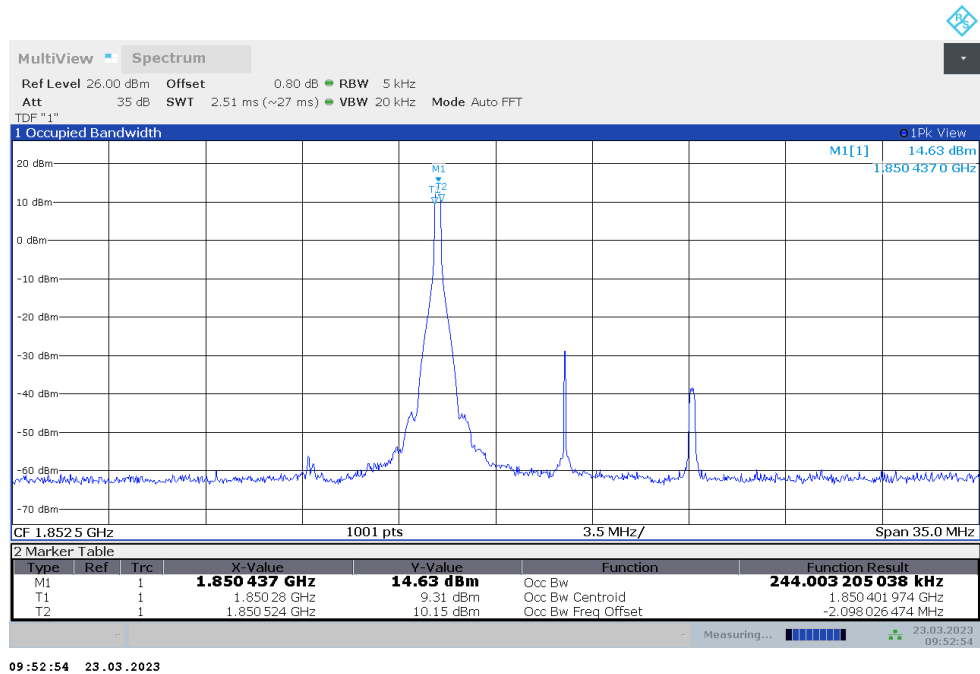
be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

The spectrum analyzer readings are corrected by  $[10 \log (1/\text{duty cycle})]$  for the non-continuous transmitting scenario.

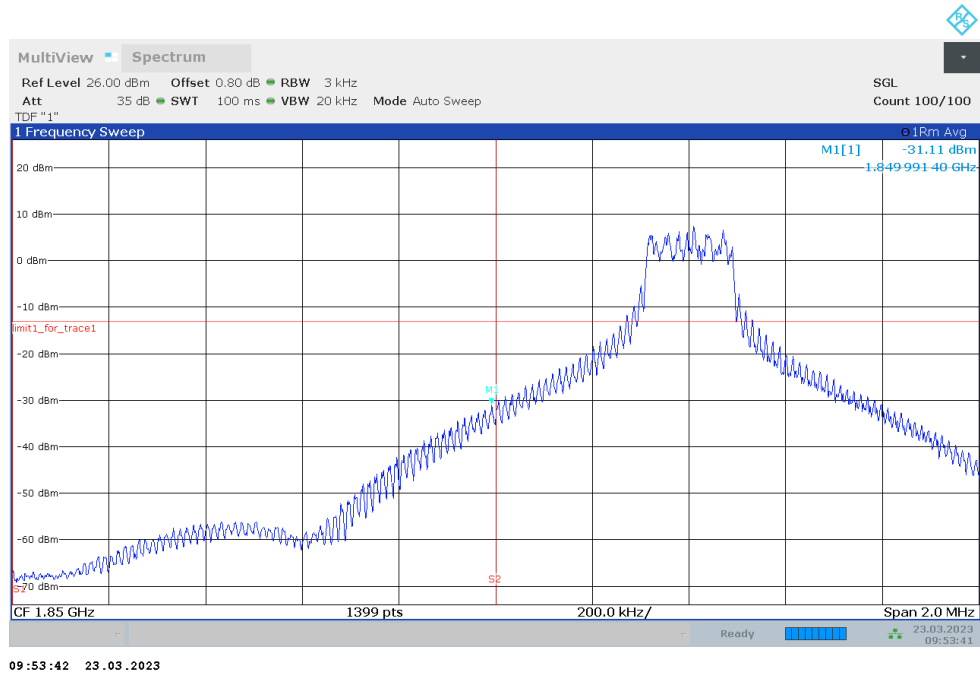
## A.6.2 Measurement result

NR n25

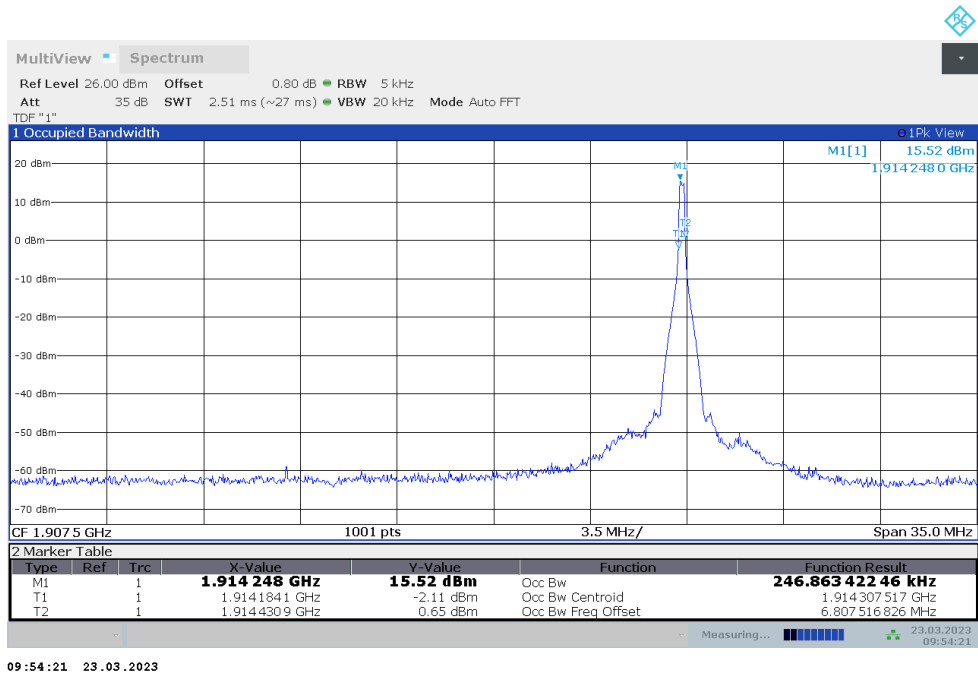
OBW: 1RB-LOW\_offset



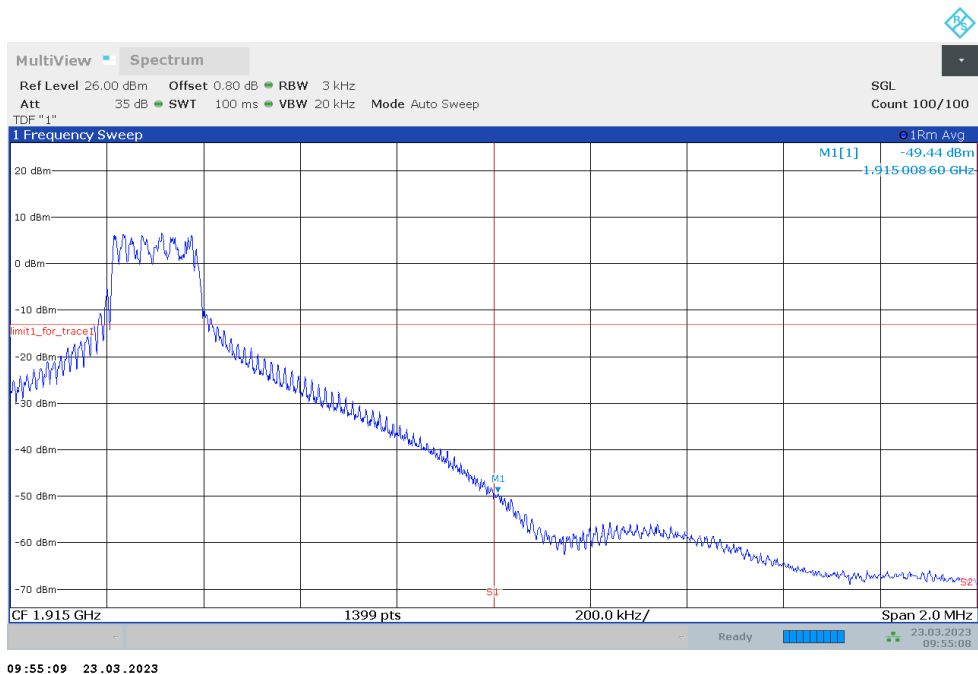
## LOW BAND EDGE BLOCK-1RB-LOW\_offset



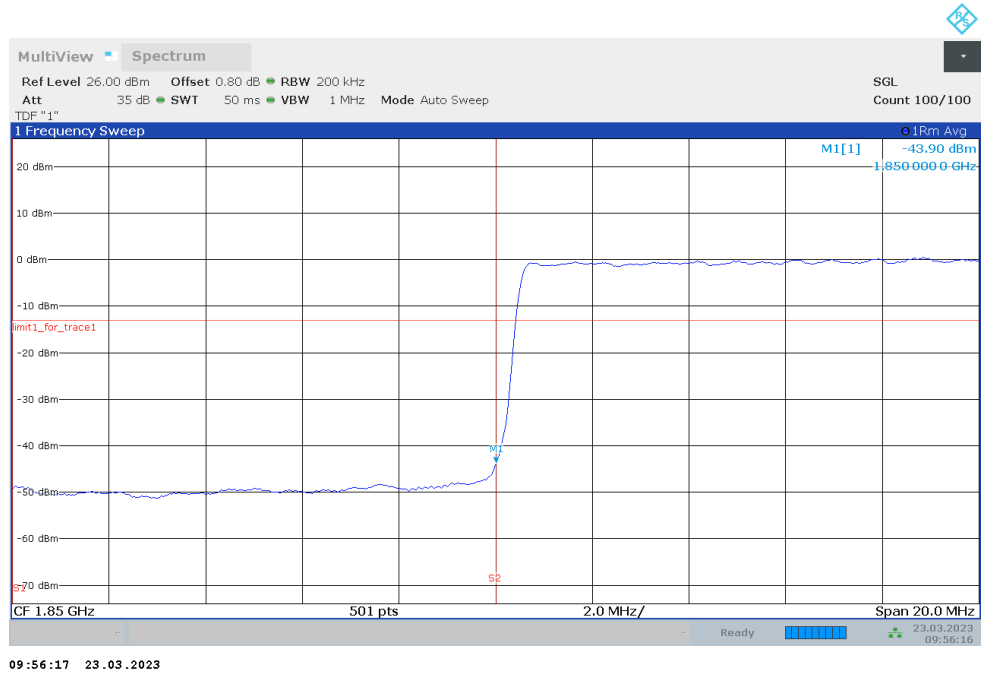
### OBW: 1RB-HIGH\_offset



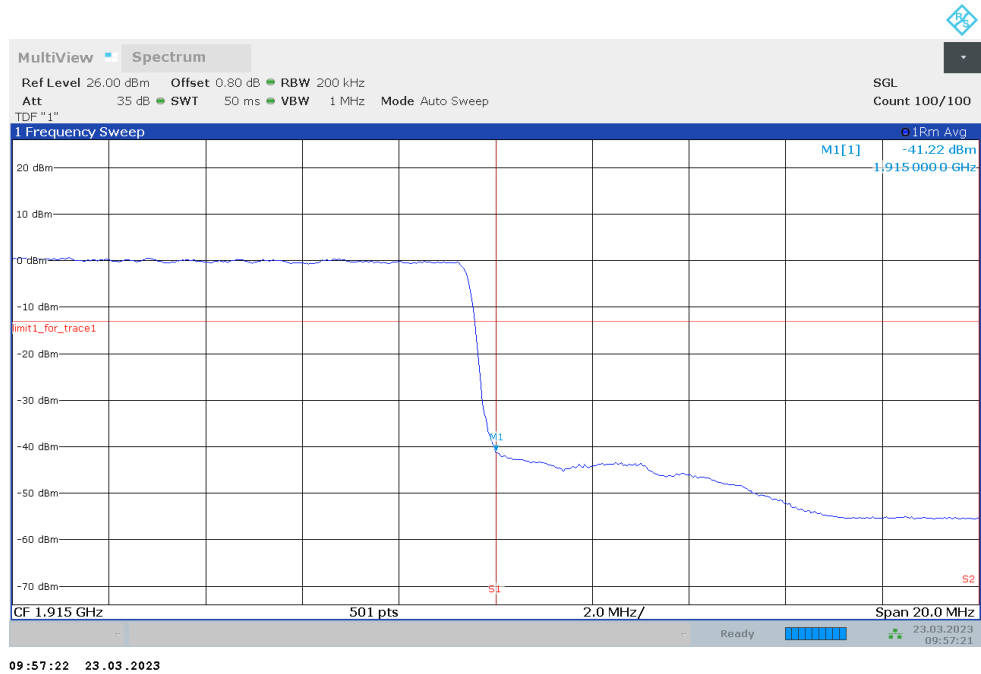
### HIGH BAND EDGE BLOCK-1RB-HIGH\_offset



### LOW BAND EDGE BLOCK-40M-100%RB

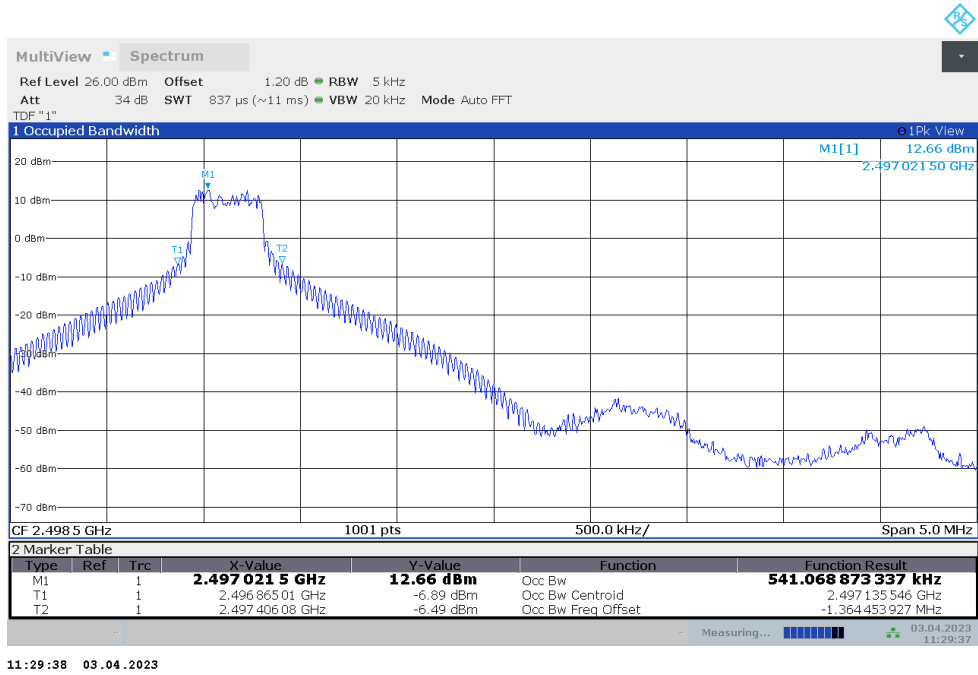


### HIGH BAND EDGE BLOCK-40M-100%RB

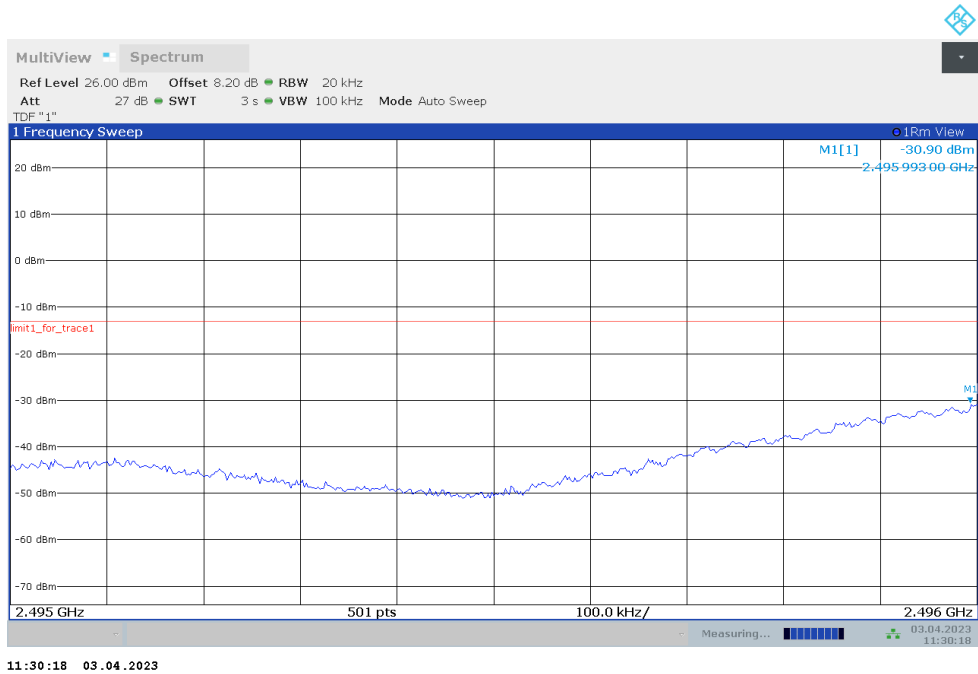


NR n41

OBW: 1RB-LOW\_offset

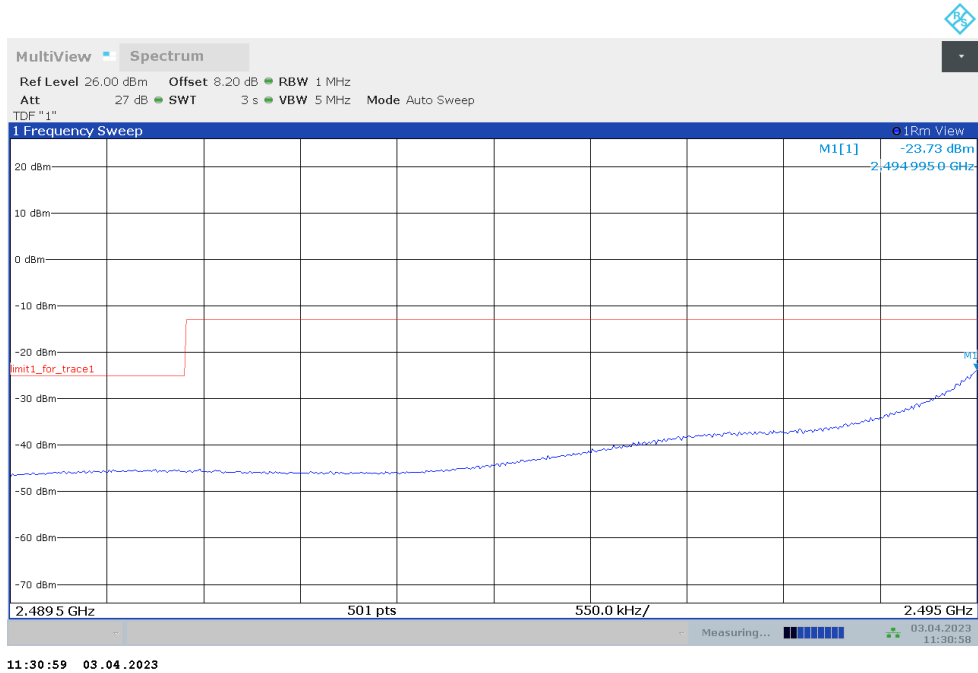


LOW BAND EDGE BLOCK-1RB-LOW\_offset

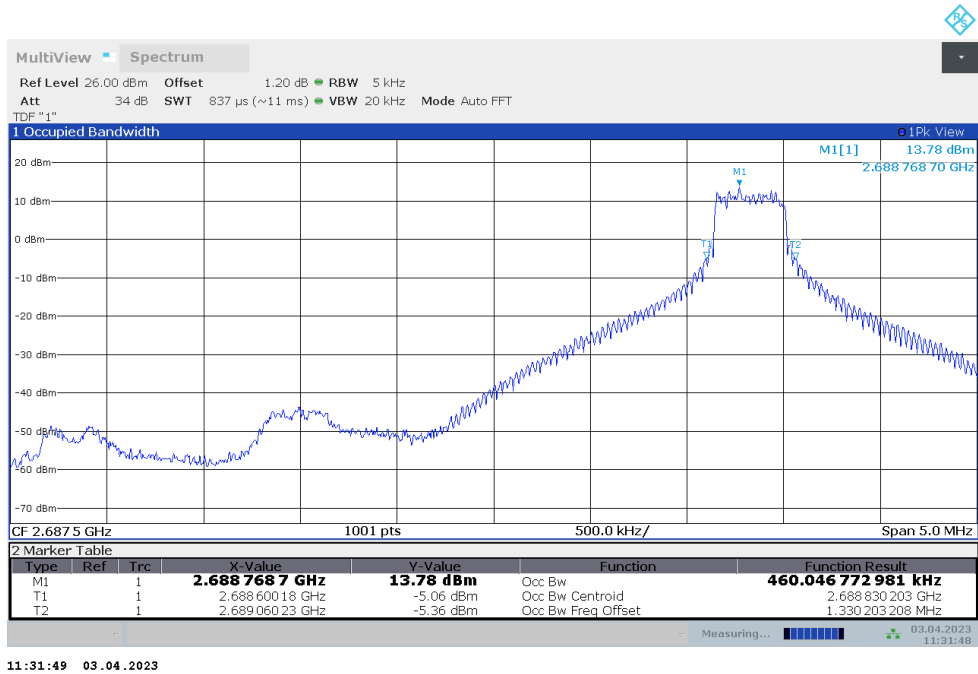




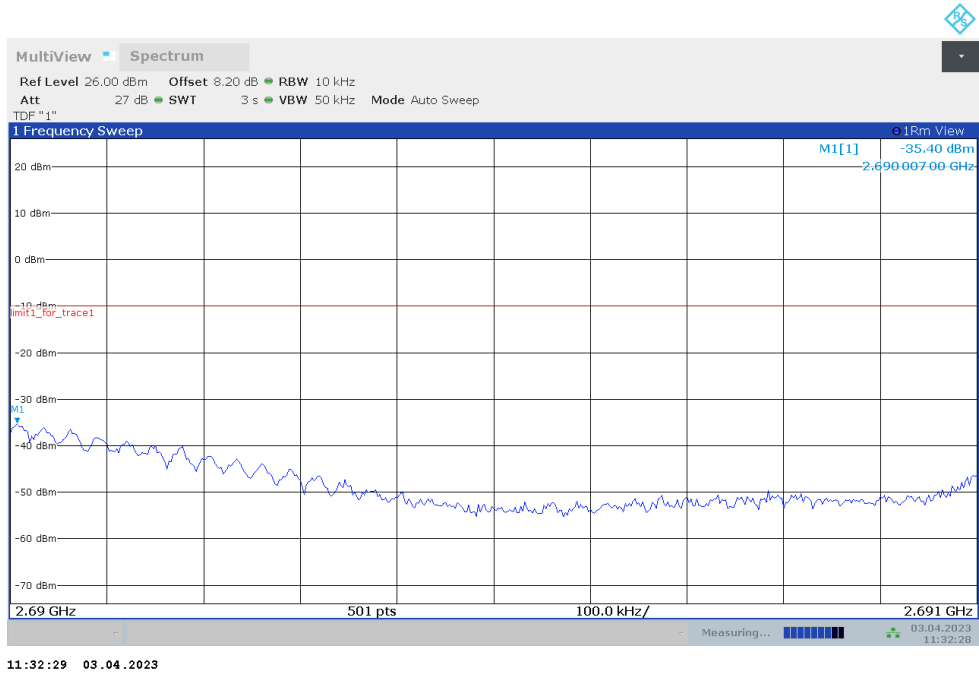
### LOW BAND EDGE BLOCK-1RB-LOW\_offset



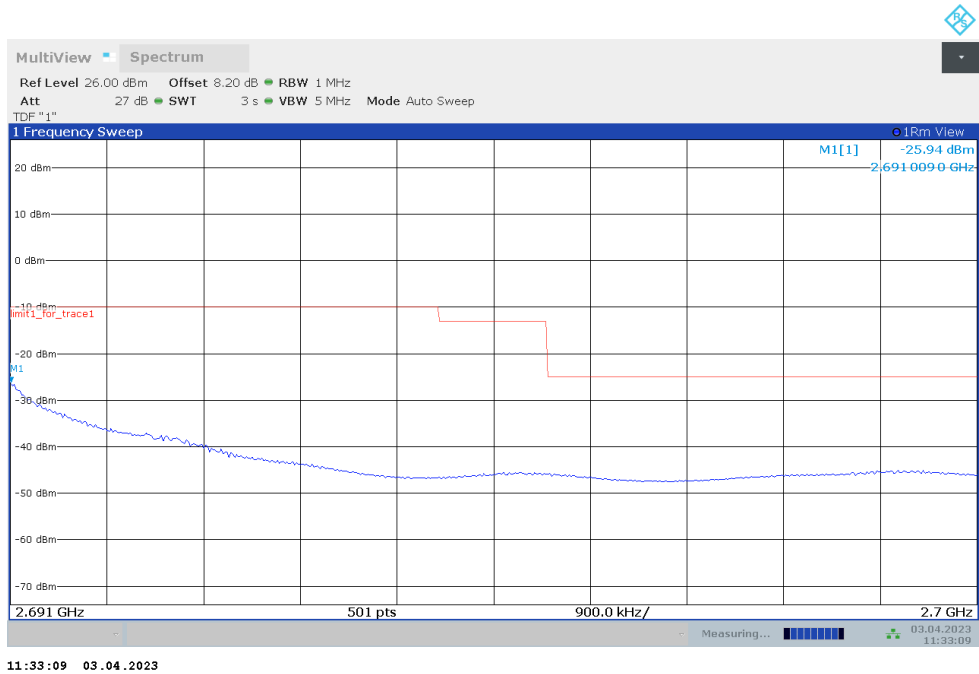
### OBW: 1RB-HIGH\_offset



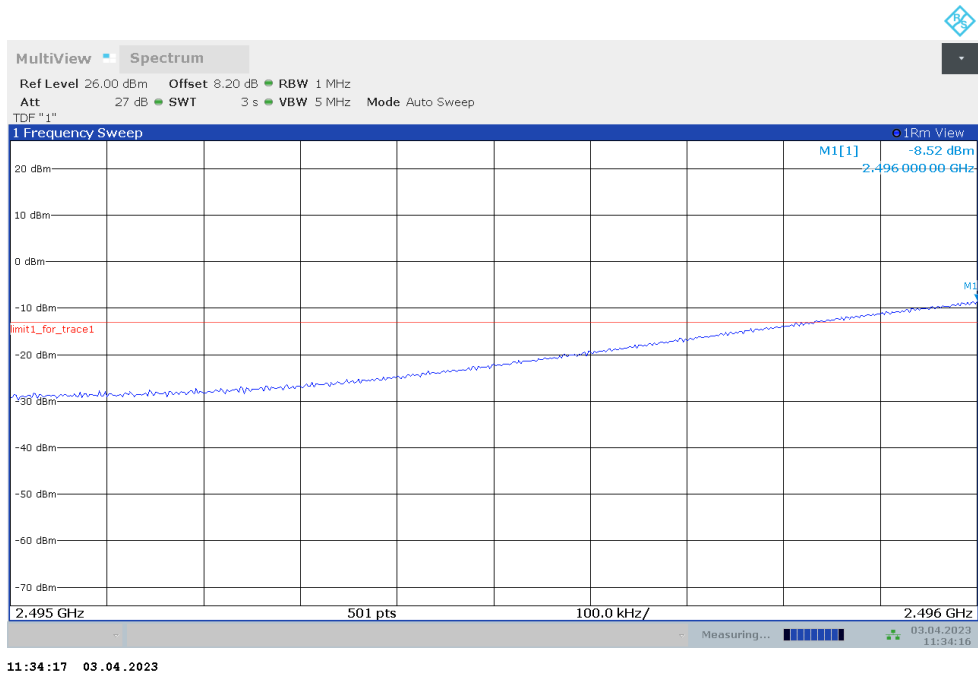
### HIGH BAND EDGE BLOCK-1RB-HIGH\_offset



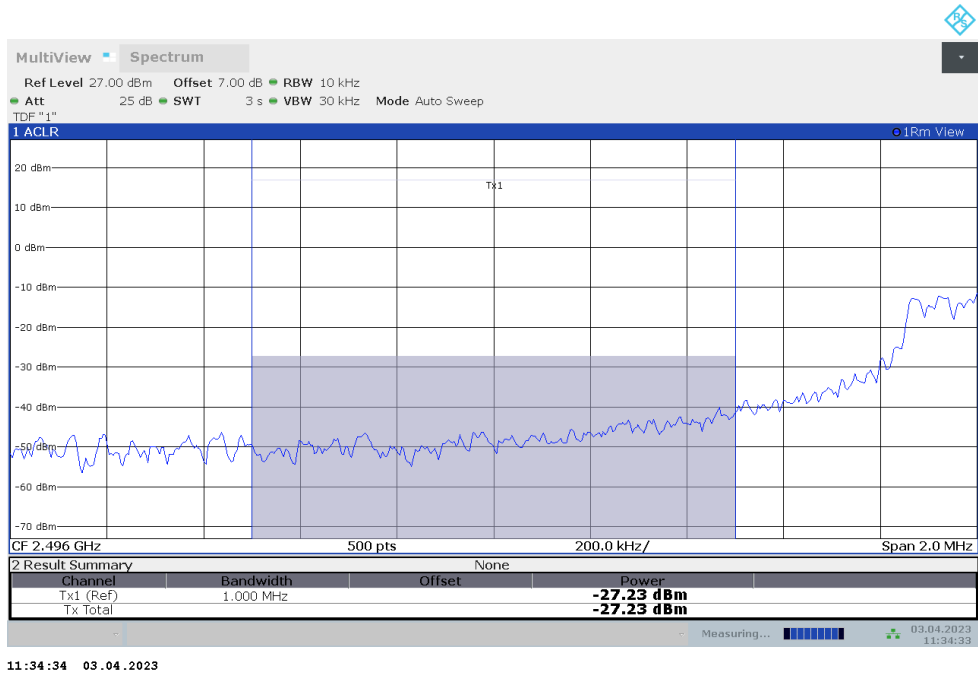
### HIGH BAND EDGE BLOCK-1RB-HIGH\_offset



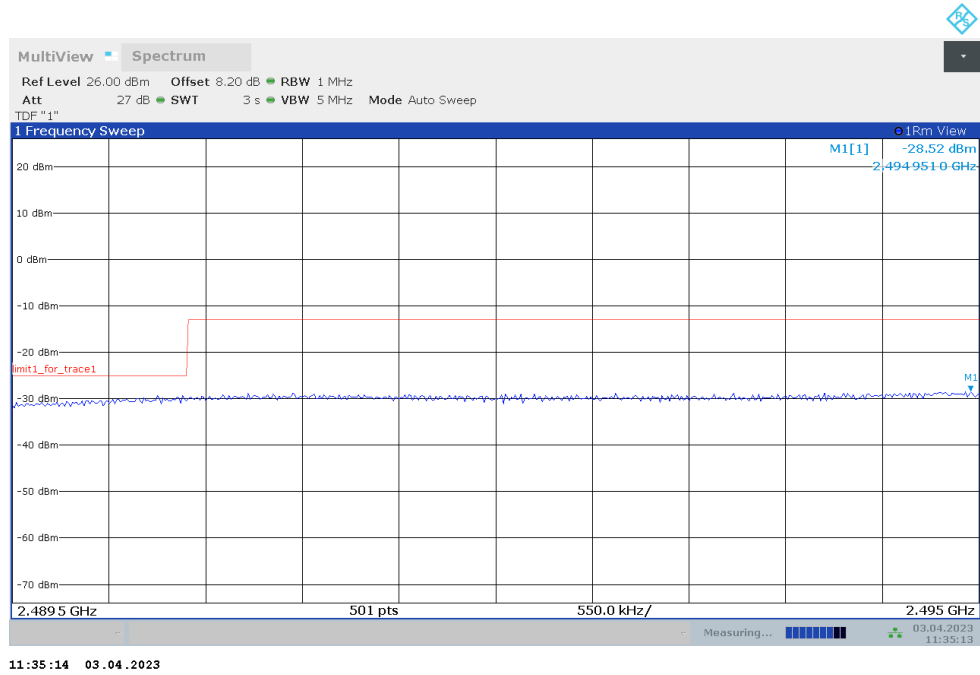
### LOW BAND EDGE BLOCK-100M-100%RB



### Channel power



### LOW BAND EDGE BLOCK-100M-100%RB



### HIGH BAND EDGE BLOCK-100M-100%RB

