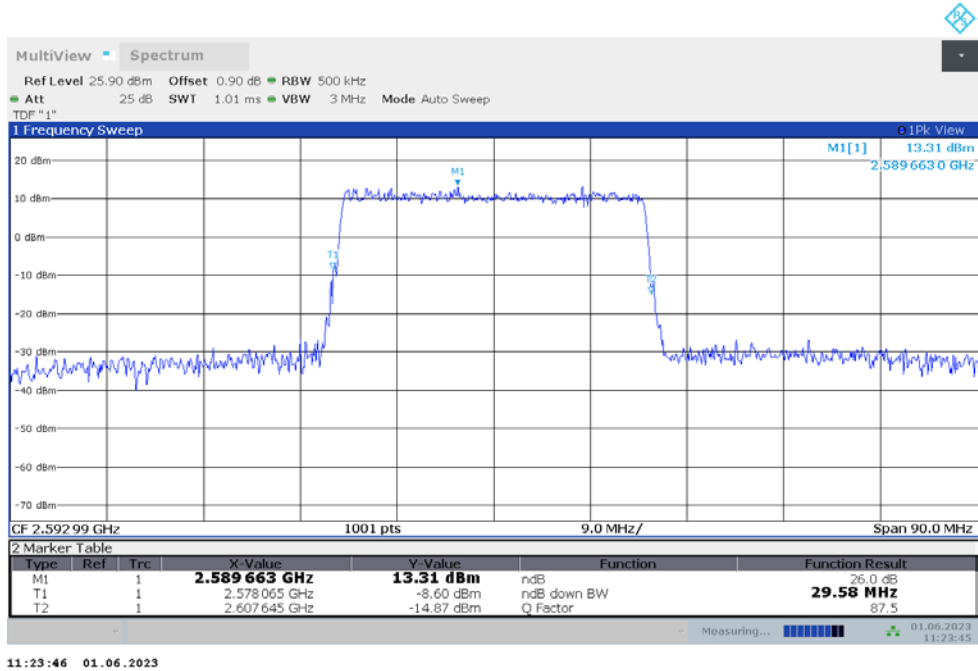


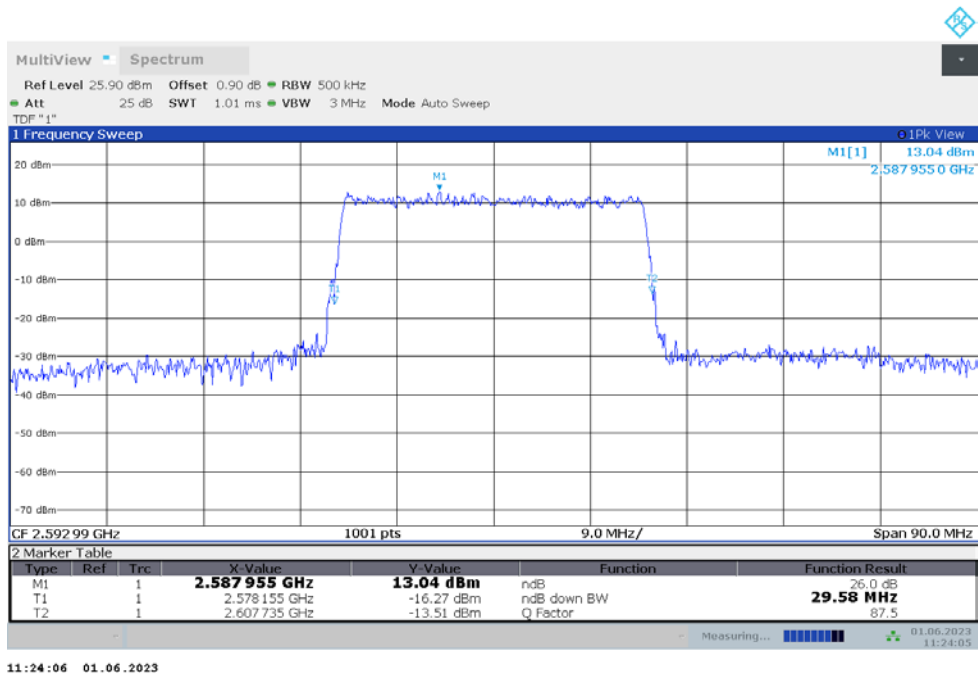
**n41-MIMO,30MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
2592.99	30.120	29.670

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

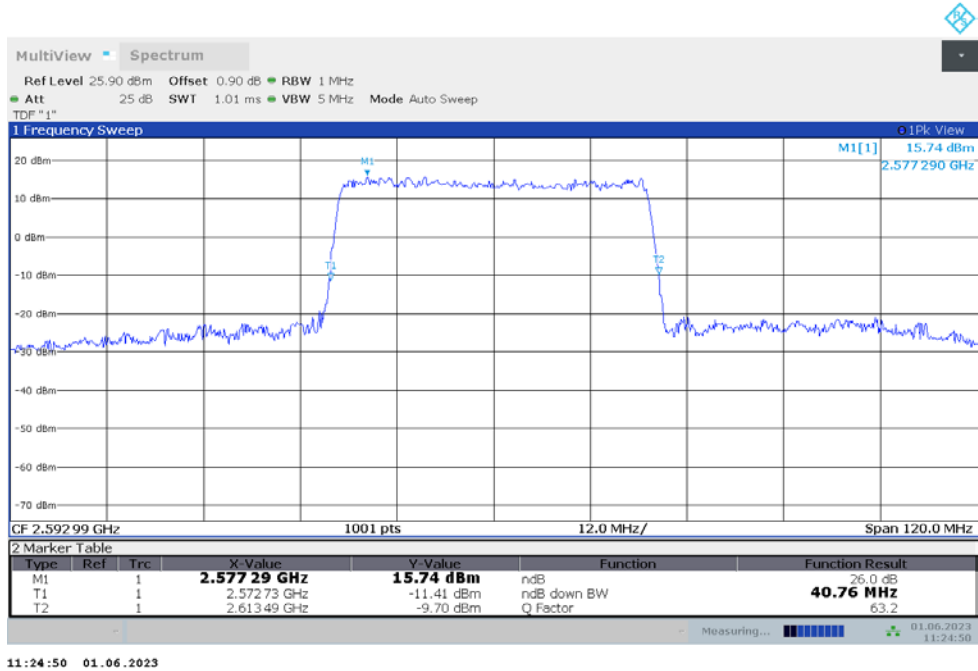
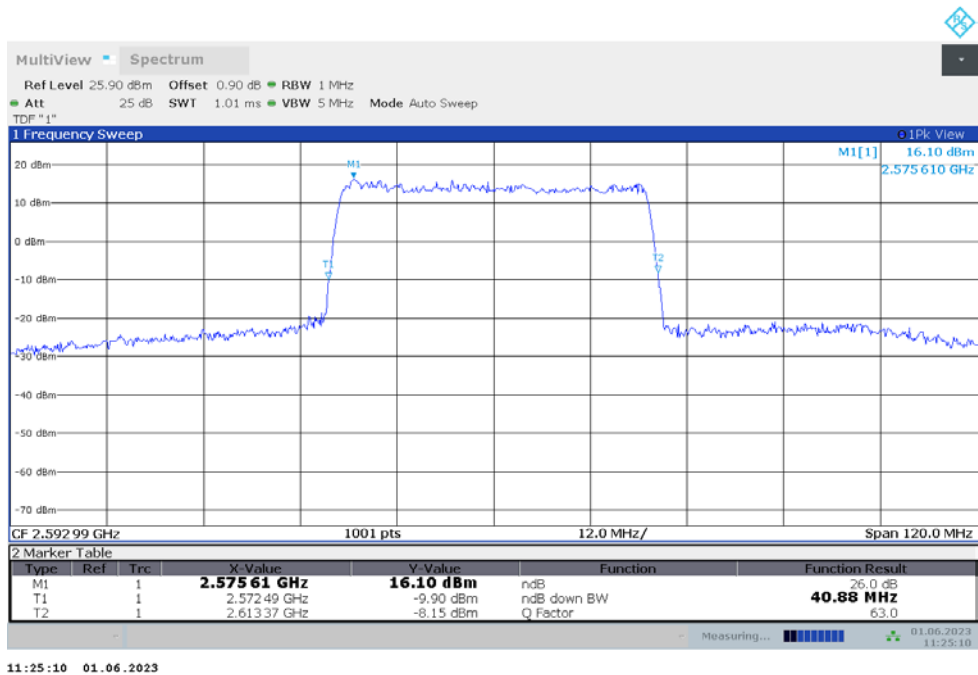


**n41,30MHz Bandwidth,CP 16QAM (-26dBc BW)**



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

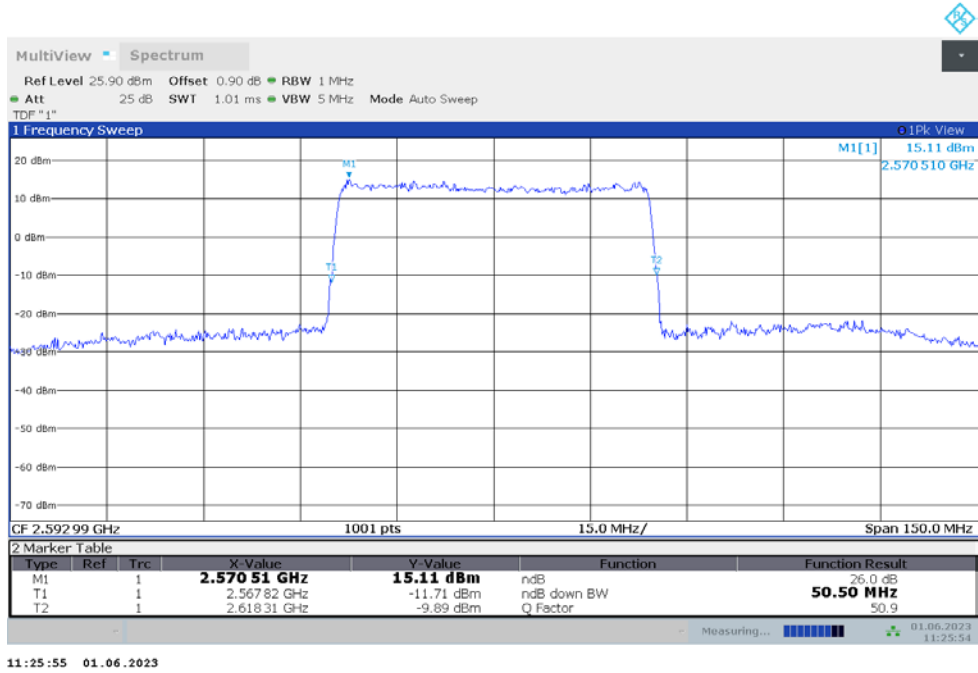
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
2592.99	41.120	41.000

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

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


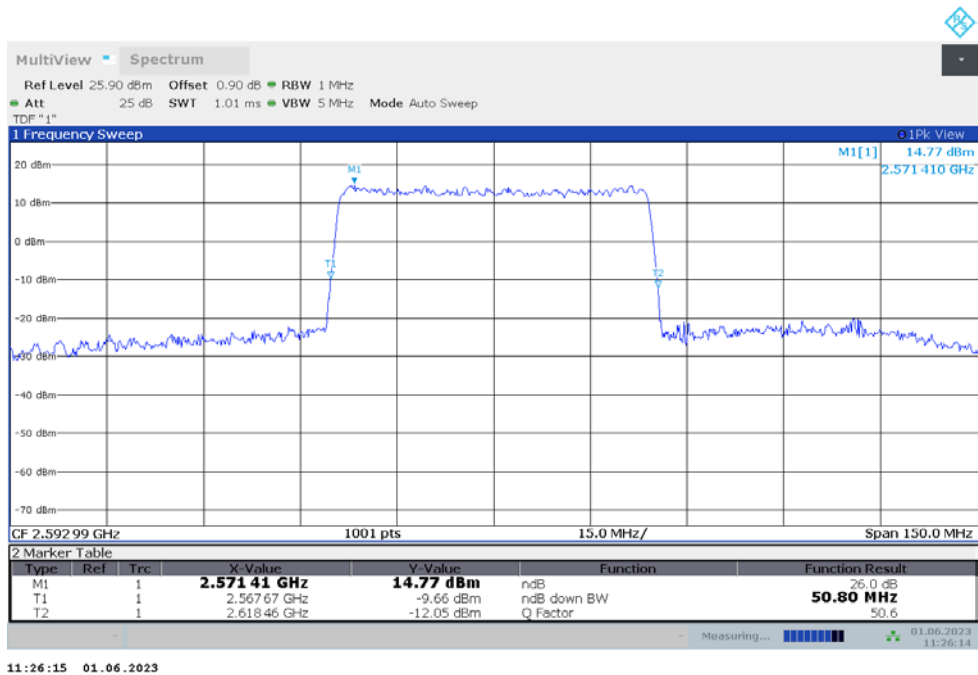
**n41-MIMO,50MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
2592.99	50.500	50.800

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



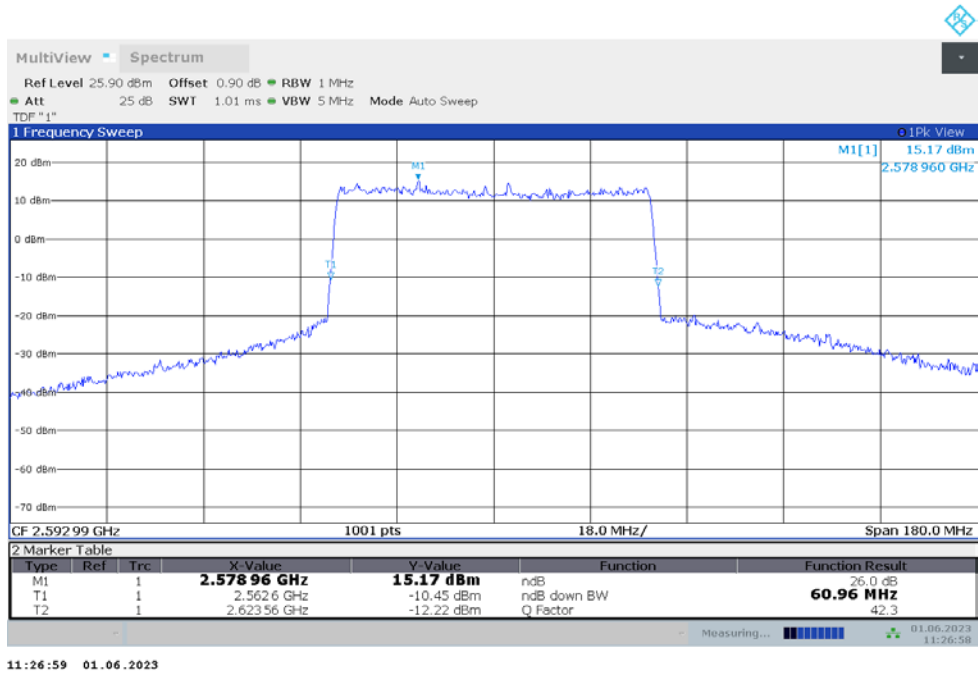
**n41,50MHz Bandwidth,CP 16QAM (-26dBc BW)**



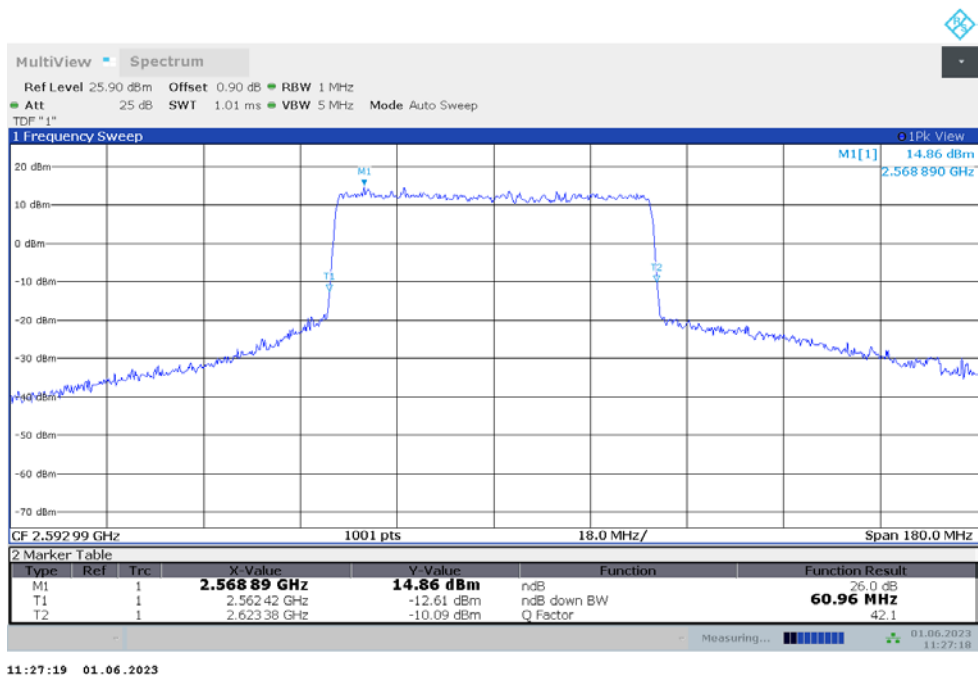
**n41-MIMO,60MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
2592.99	60.960	60.780

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



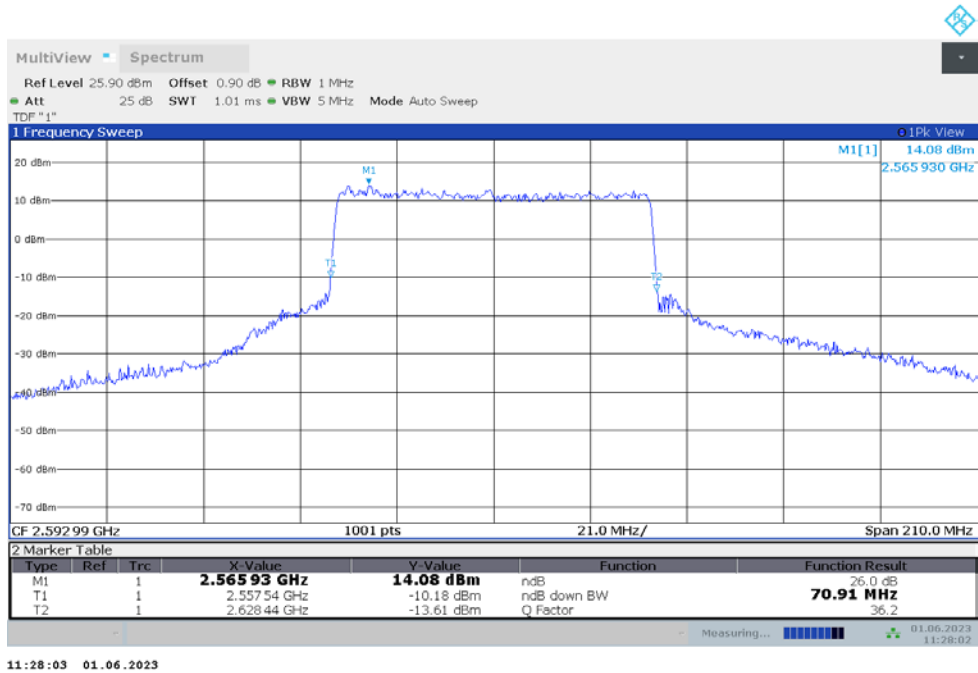
**n41,60MHz Bandwidth,CP 16QAM (-26dBc BW)**



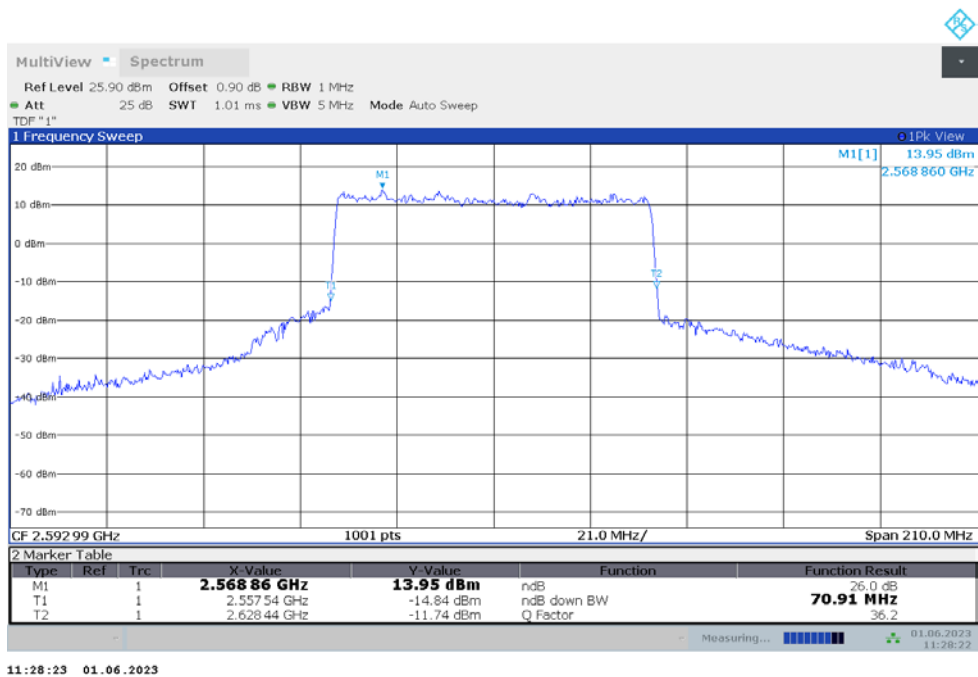
**n41-MIMO,70MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
2592.99	70.700	70.910

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



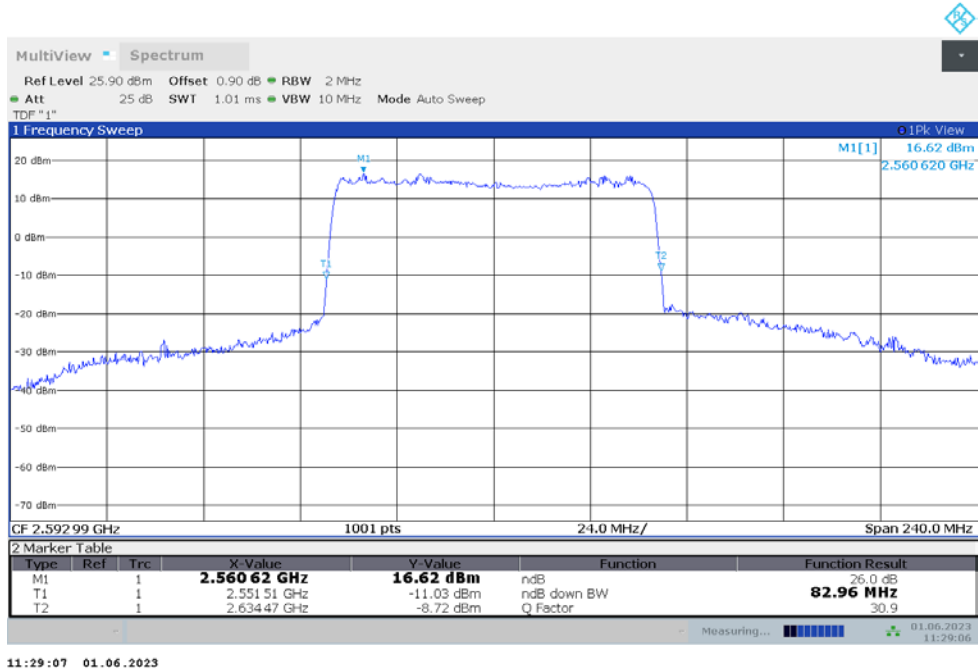
**n41,70MHz Bandwidth,CP 16QAM (-26dBc BW)**



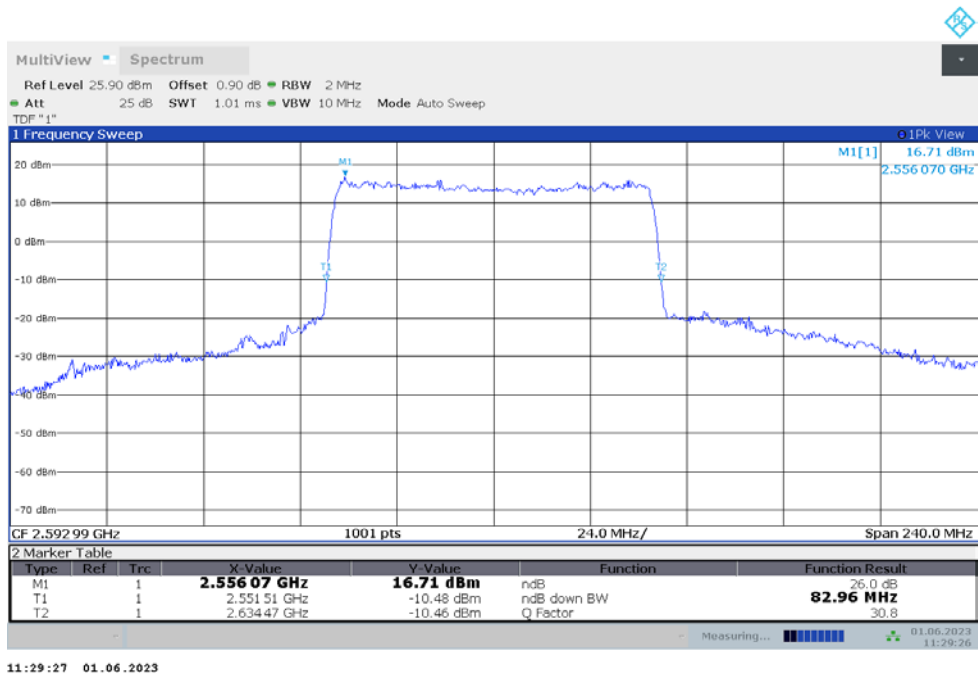
**n41-MIMO,80MHz(-26dBc)**

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

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

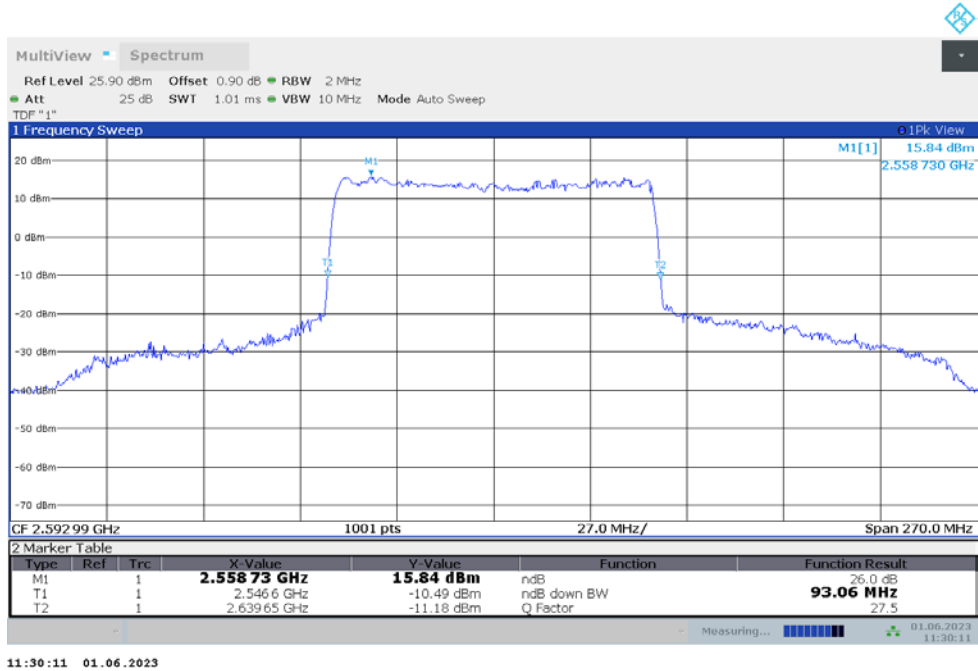
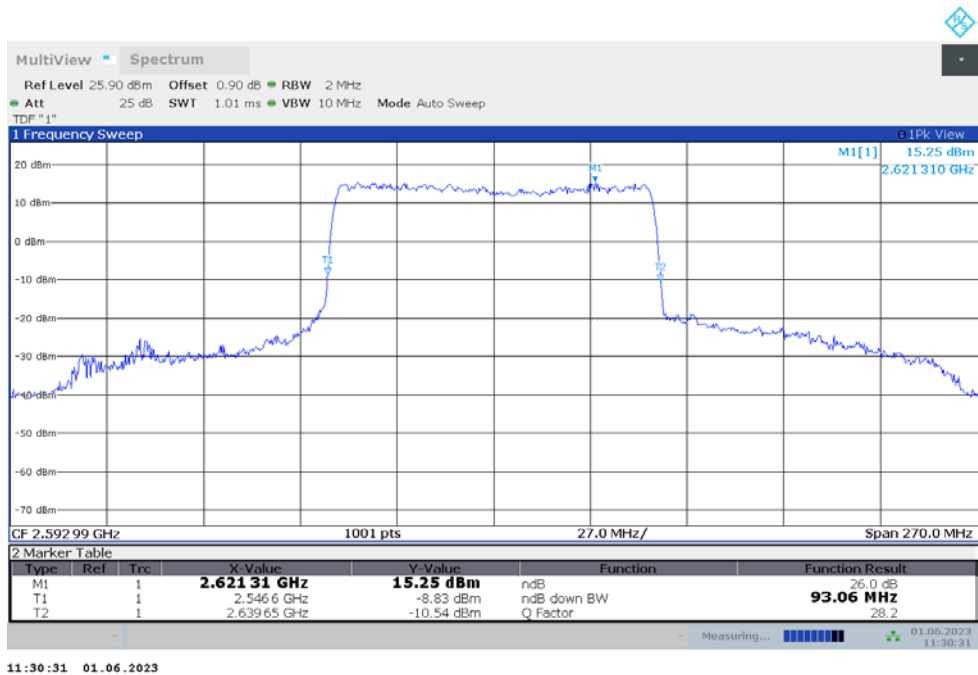


**n41,80MHz Bandwidth,CP 16QAM (-26dBc BW)**



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

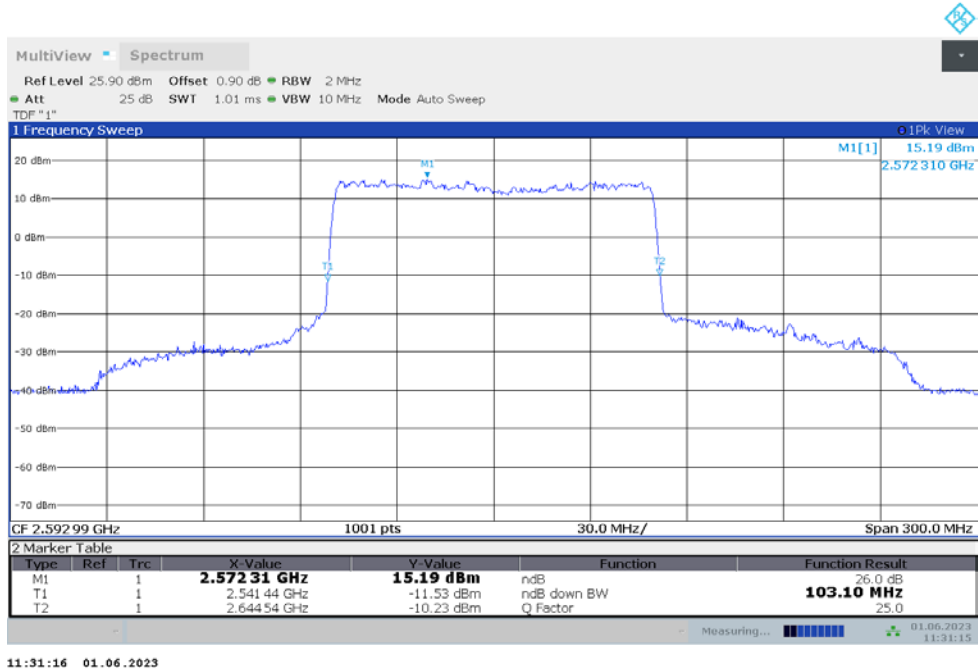
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
2592.99	93.060	93.060

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

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


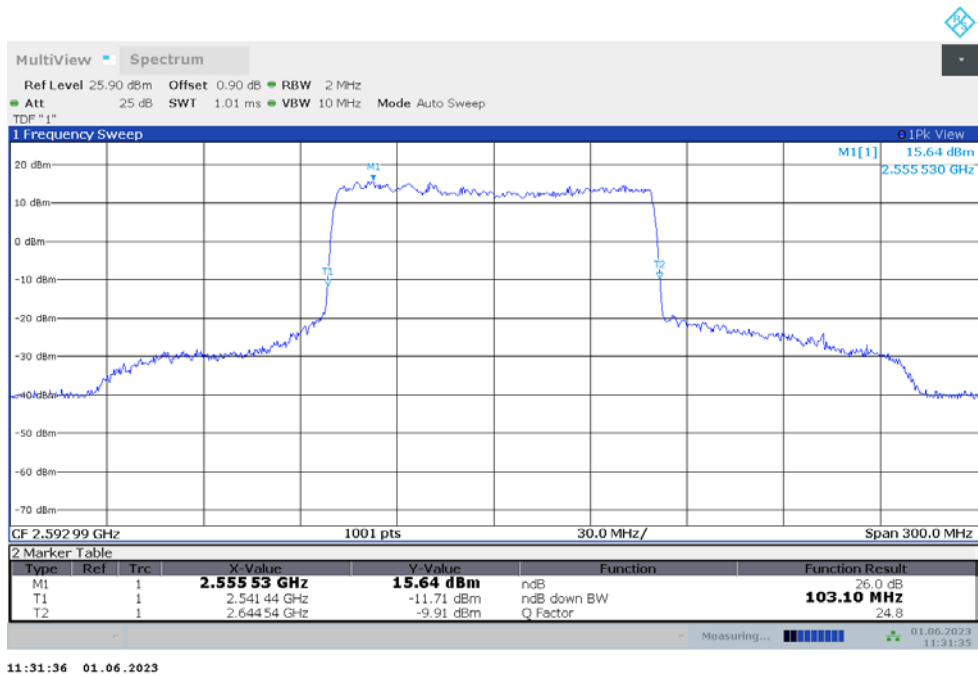
**n41-MIMO,100MHz(-26dBc)**

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

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



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



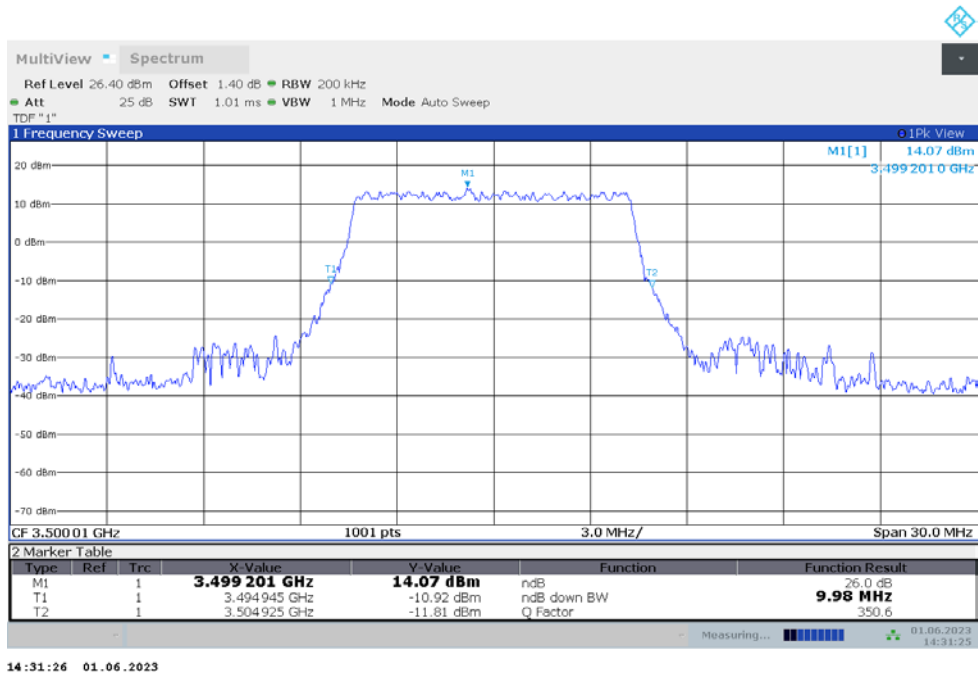


n77L

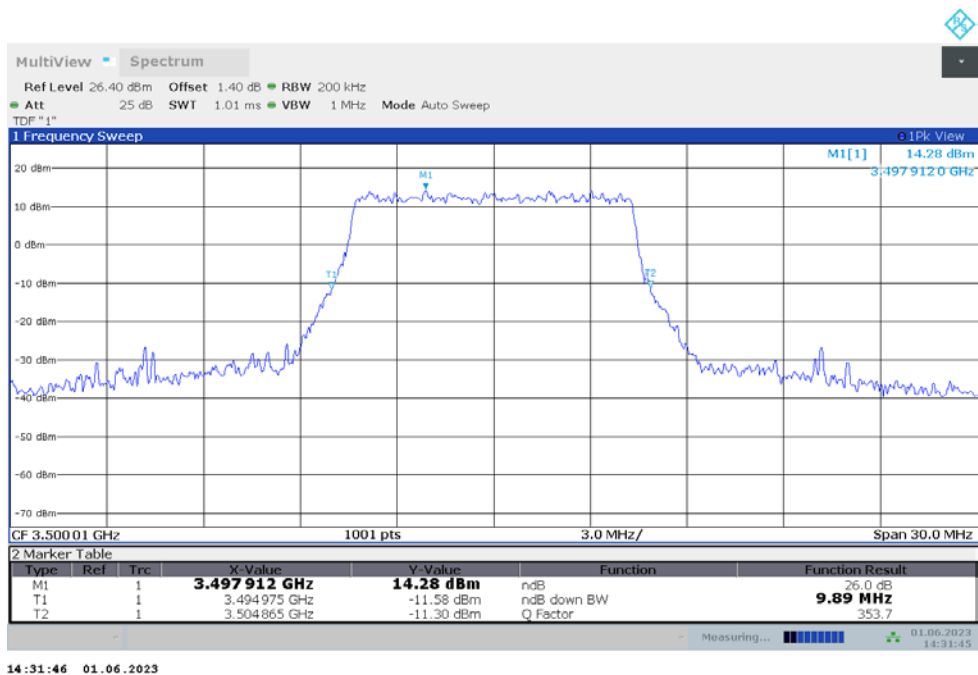
n77L-MIMO,10MHz(-26dBc)

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3500.01	9.980	9.890

n77L,10MHz Bandwidth,CP QPSK (-26dBc BW)



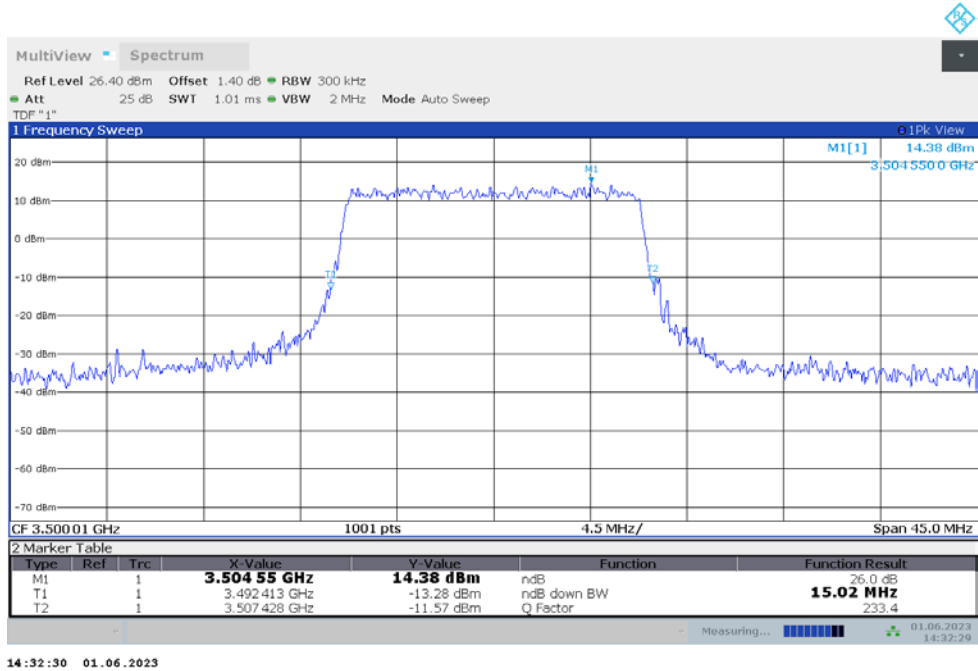
n77L,10MHz Bandwidth,CP 16QAM (-26dBc BW)



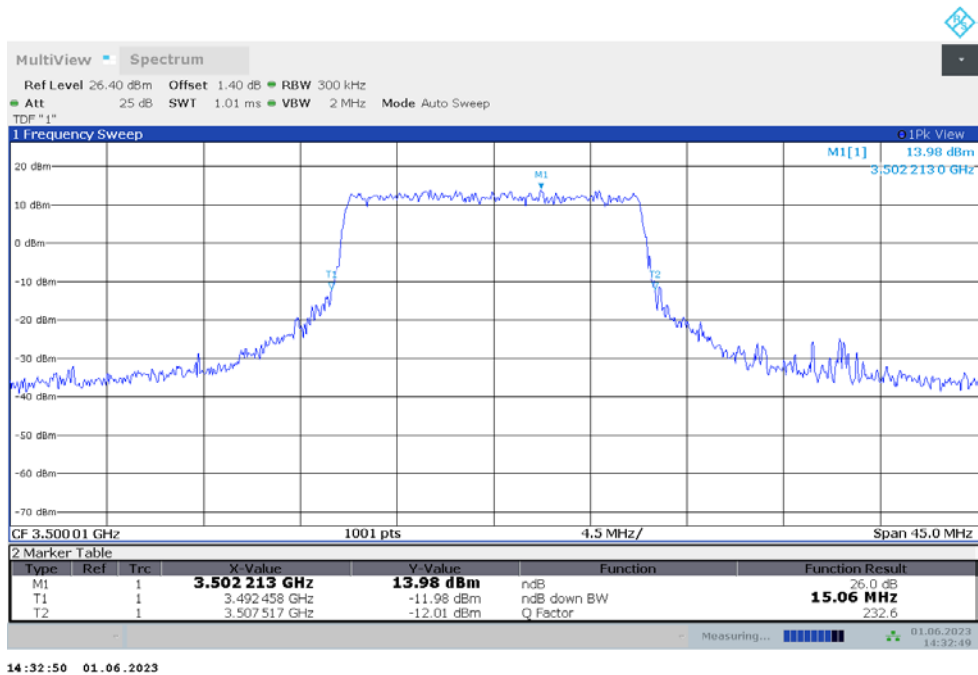
**n77L-MIMO,15MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3500.01	15.015	15.060

**n77L,15MHz Bandwidth,CP QPSK (-26dBc BW)**

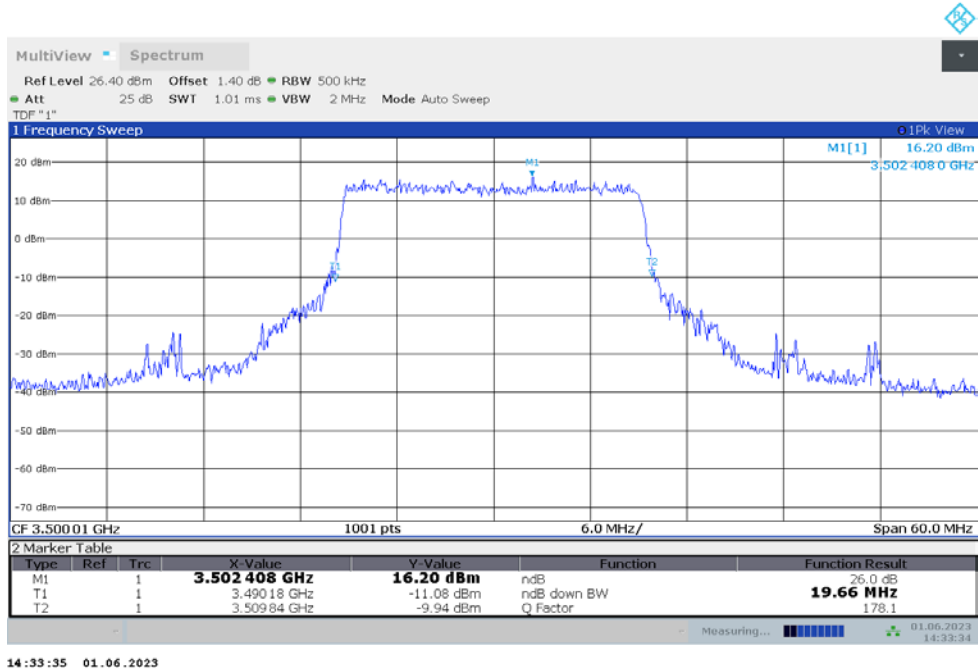
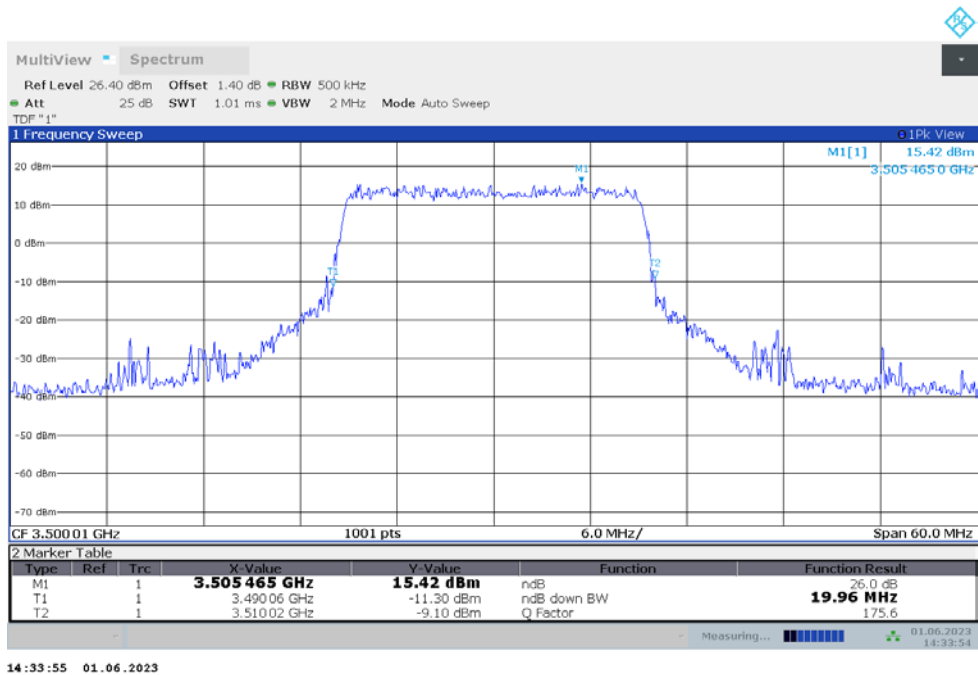


**n77L,15MHz Bandwidth,CP 16QAM (-26dBc BW)**



**n77L-MIMO,20MHz(-26dBc)**

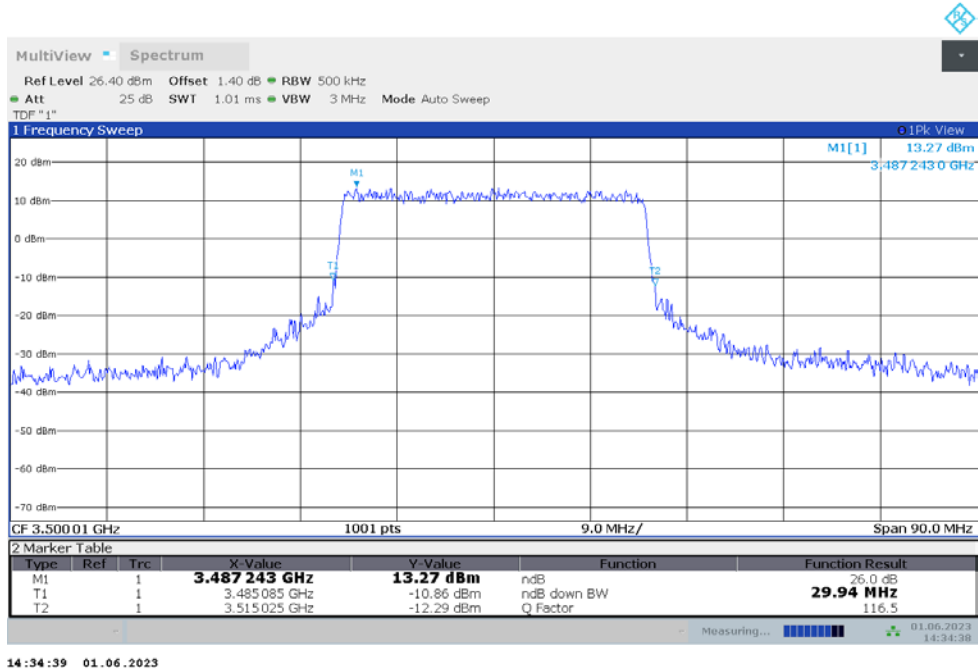
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3500.01	19.660	19.960

**n77L,20MHz Bandwidth,CP QPSK (-26dBc BW)**

**n77L,20MHz Bandwidth,CP 16QAM (-26dBc BW)**


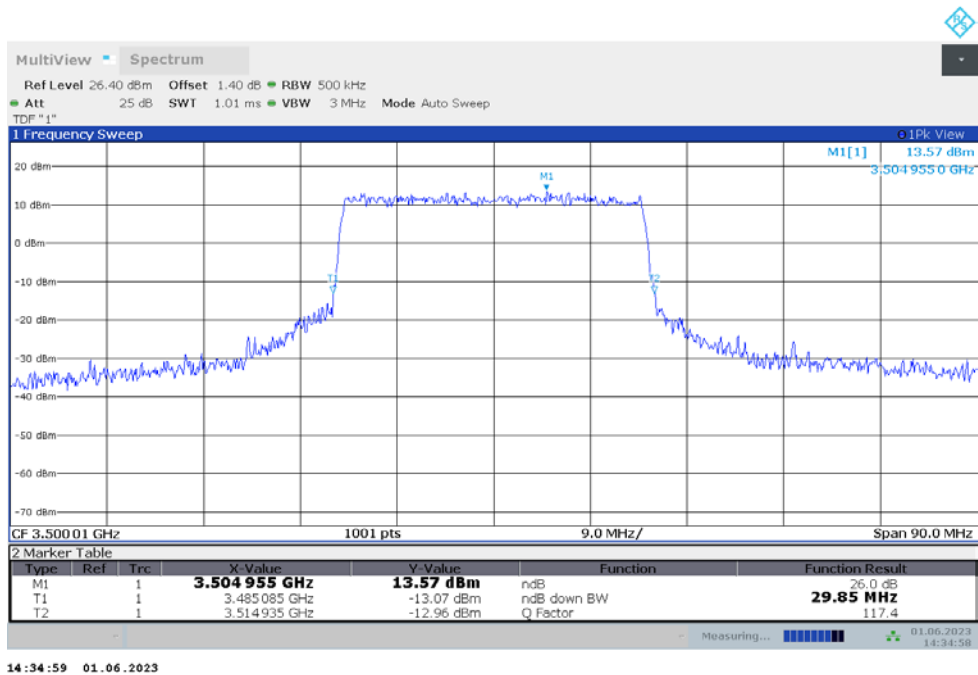
**n77L-MIMO,30MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3500.01	29.940	29.850

**n77L,30MHz Bandwidth,CP QPSK (-26dBc BW)**

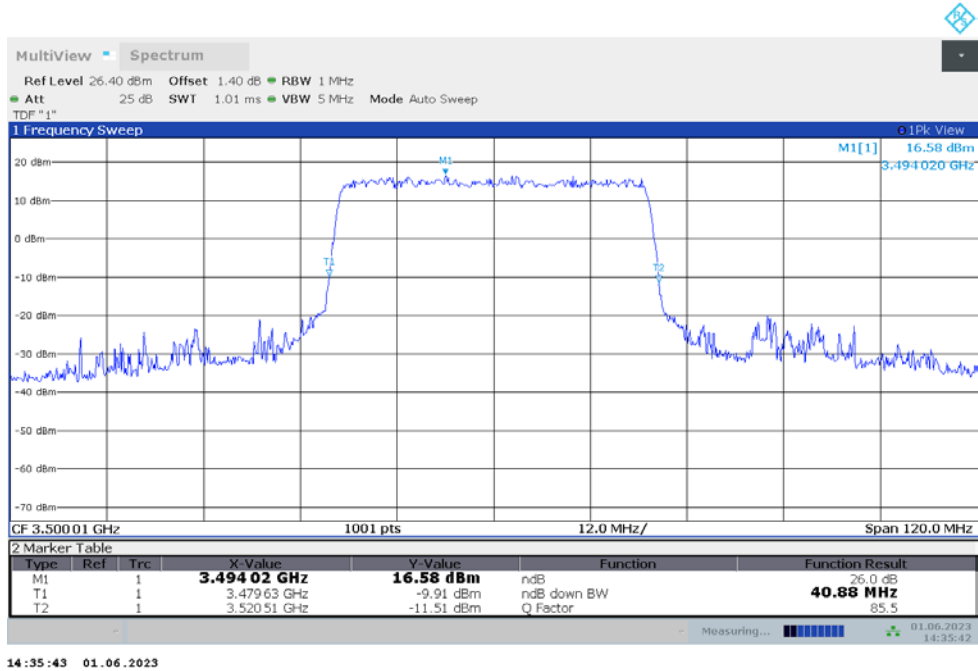
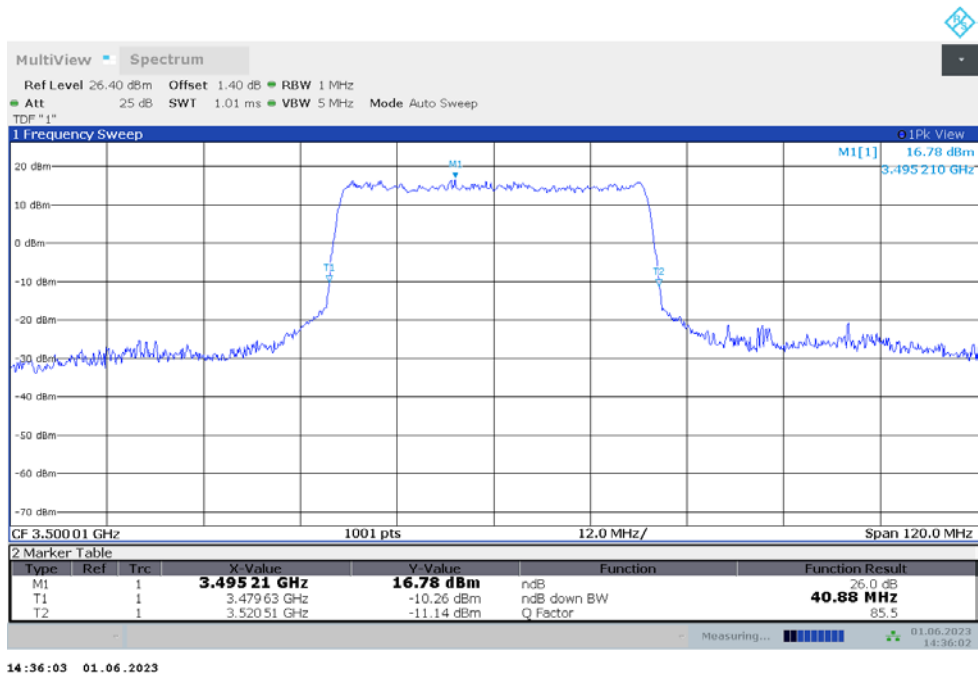


**n77L,30MHz Bandwidth,CP 16QAM (-26dBc BW)**



**n77L-MIMO,40MHz(-26dBc)**

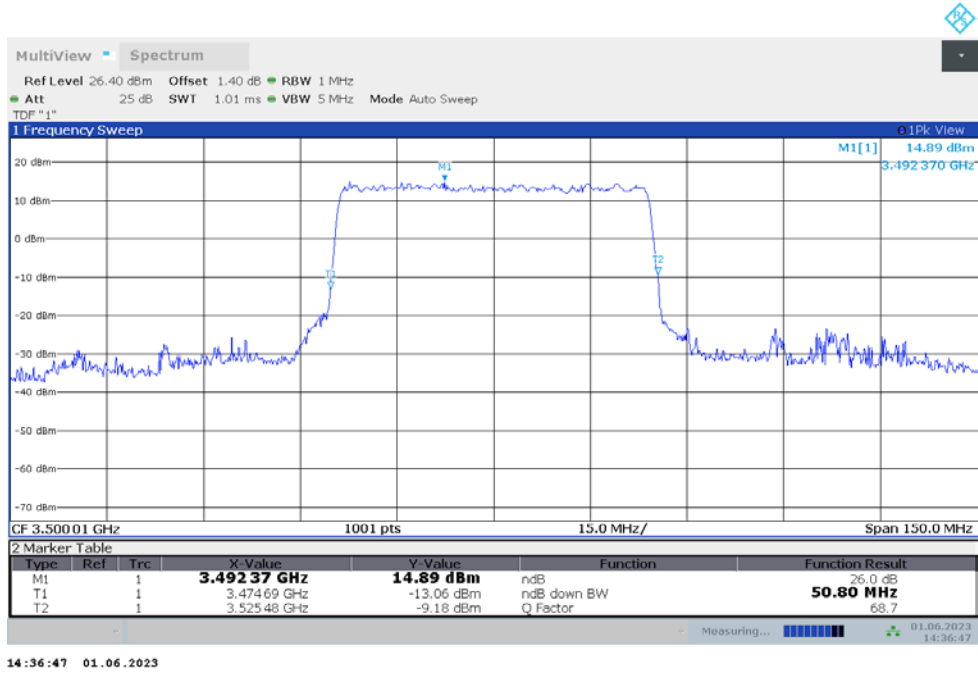
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3500.01	40.880	40.880

**n77L,40MHz Bandwidth,CP QPSK (-26dBc BW)**

**n77L,40MHz Bandwidth,CP 16QAM (-26dBc BW)**


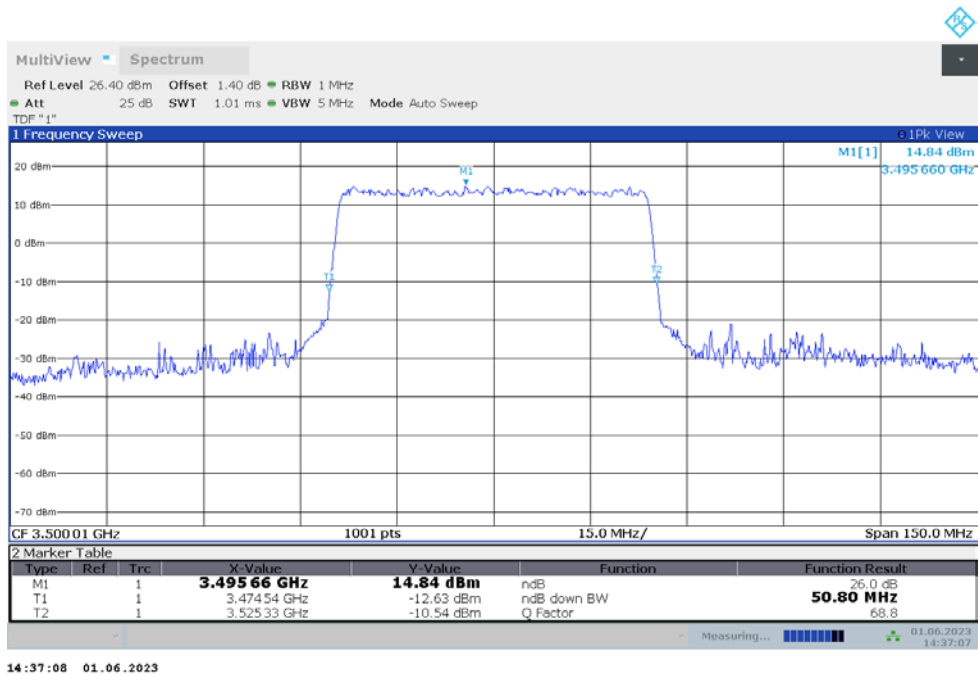
**n77L-MIMO,50MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3500.01	50.800	50.800

**n77L,50MHz Bandwidth,CP QPSK (-26dBc BW)**



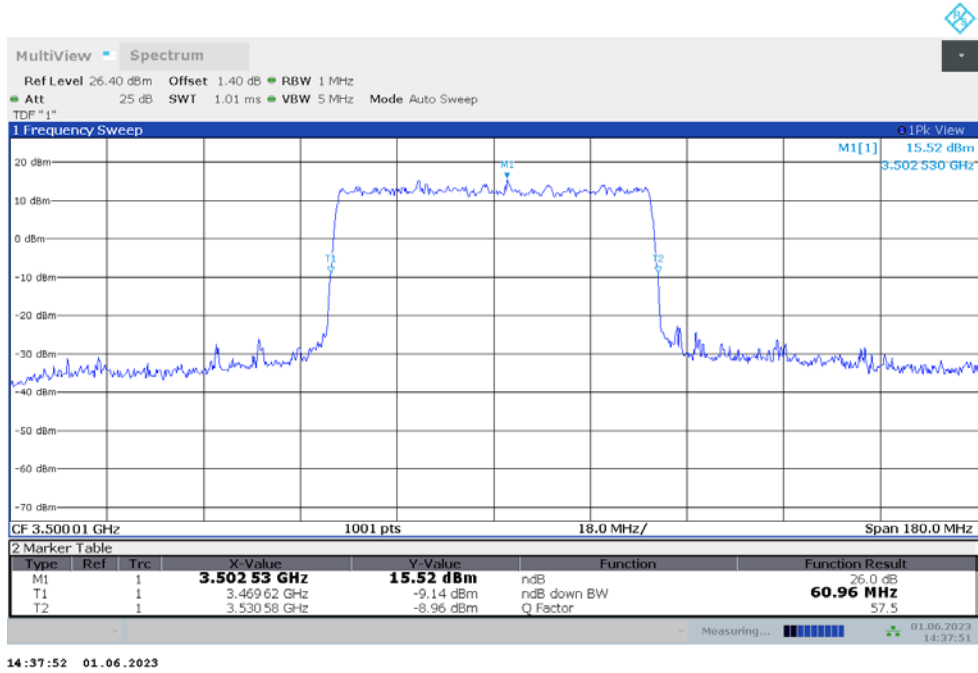
**n77L,50MHz Bandwidth,CP 16QAM (-26dBc BW)**



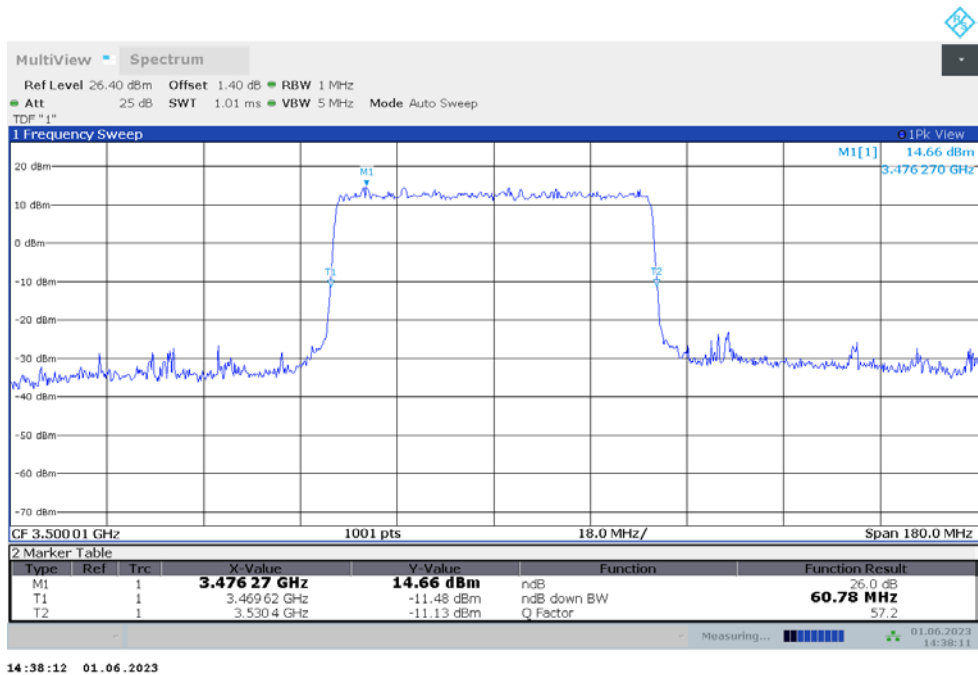
**n77L-MIMO,60MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3500.01	60.960	60.780

**n77L,60MHz Bandwidth,CP QPSK (-26dBc BW)**



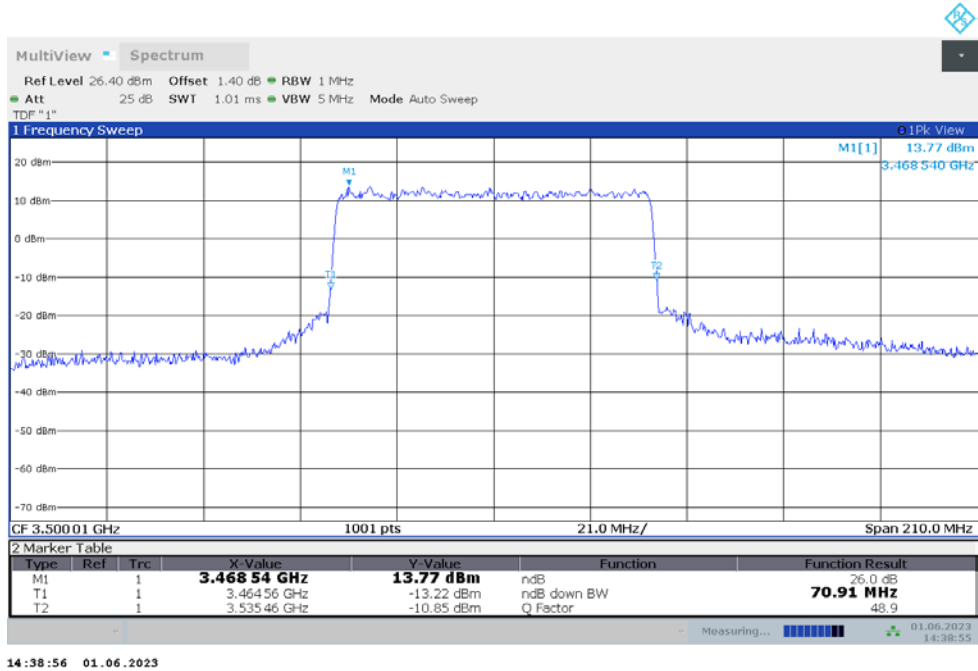
**n77L,60MHz Bandwidth,CP 16QAM (-26dBc BW)**



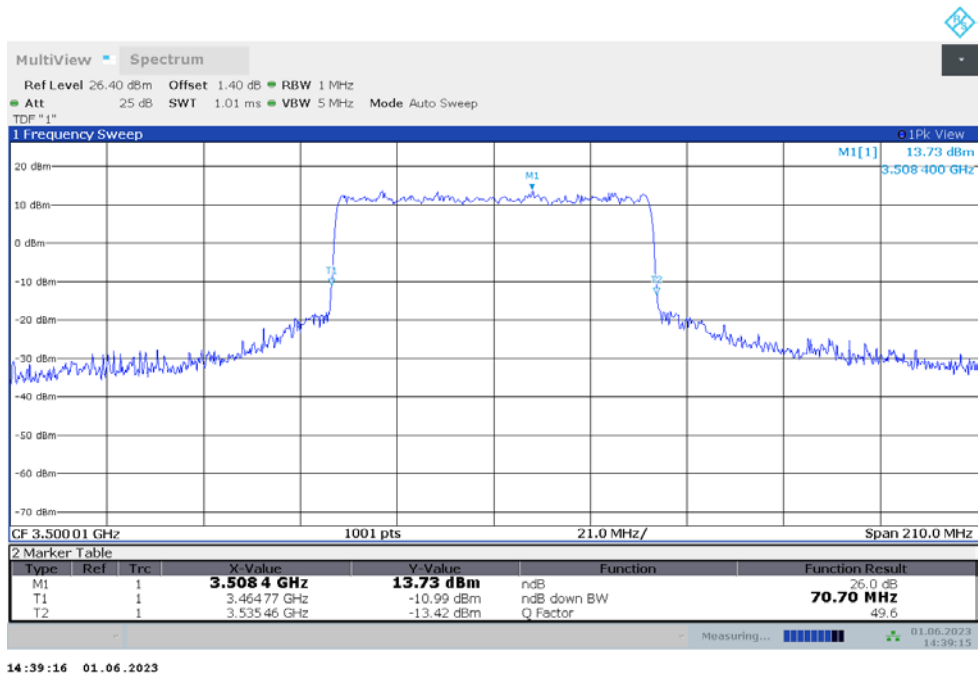
**n77L-MIMO,70MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3500.01	70.910	70.700

**n77L,70MHz Bandwidth,CP QPSK (-26dBc BW)**



**n77L,70MHz Bandwidth,CP 16QAM (-26dBc BW)**

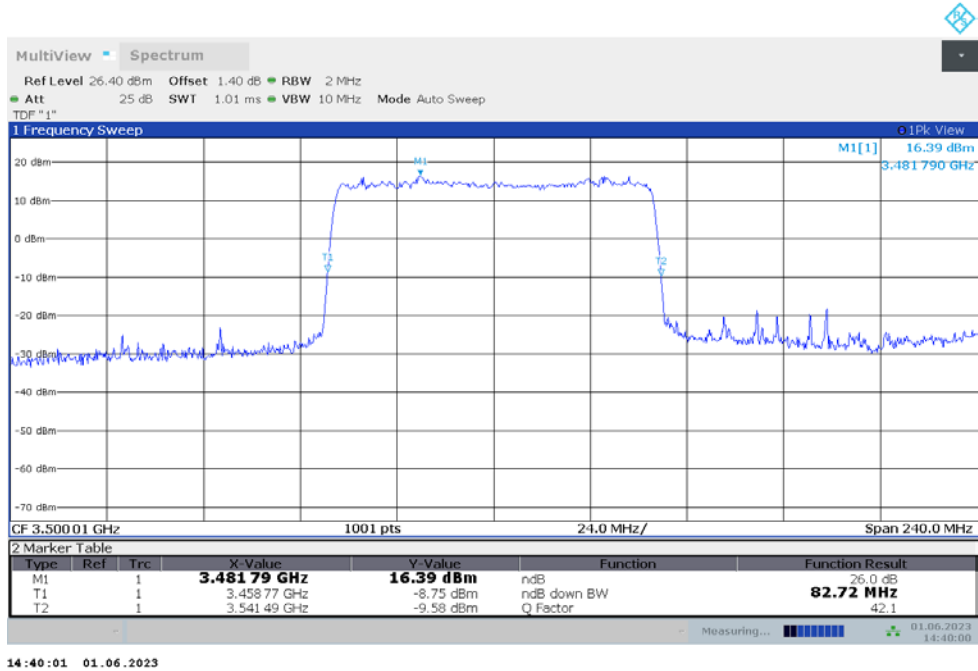




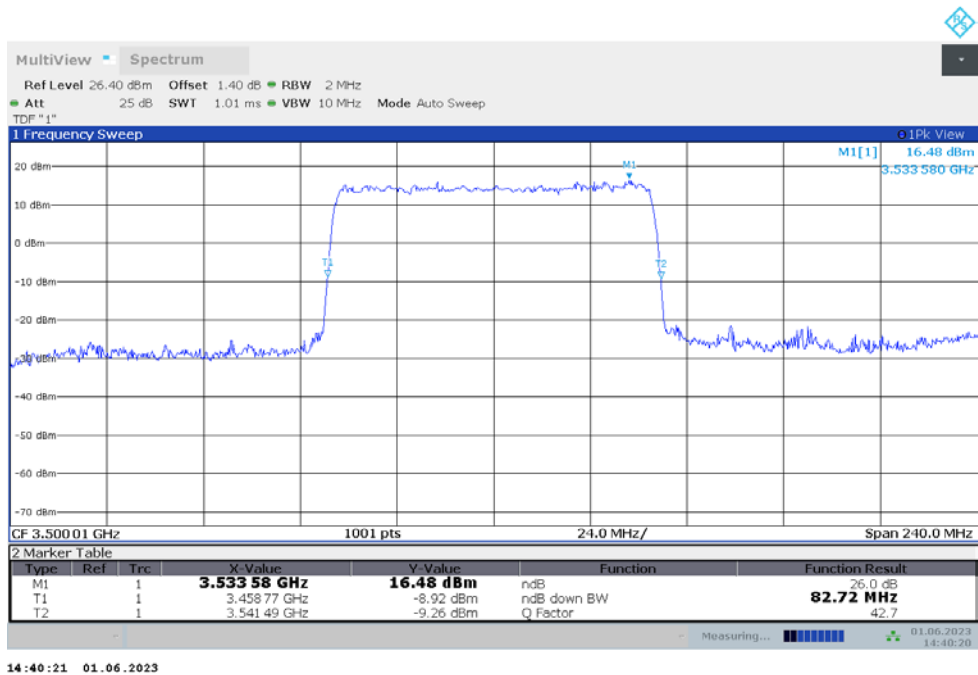
**n77L-MIMO,80MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3500.01	82.720	82.720

**n77L,80MHz Bandwidth,CP QPSK (-26dBc BW)**



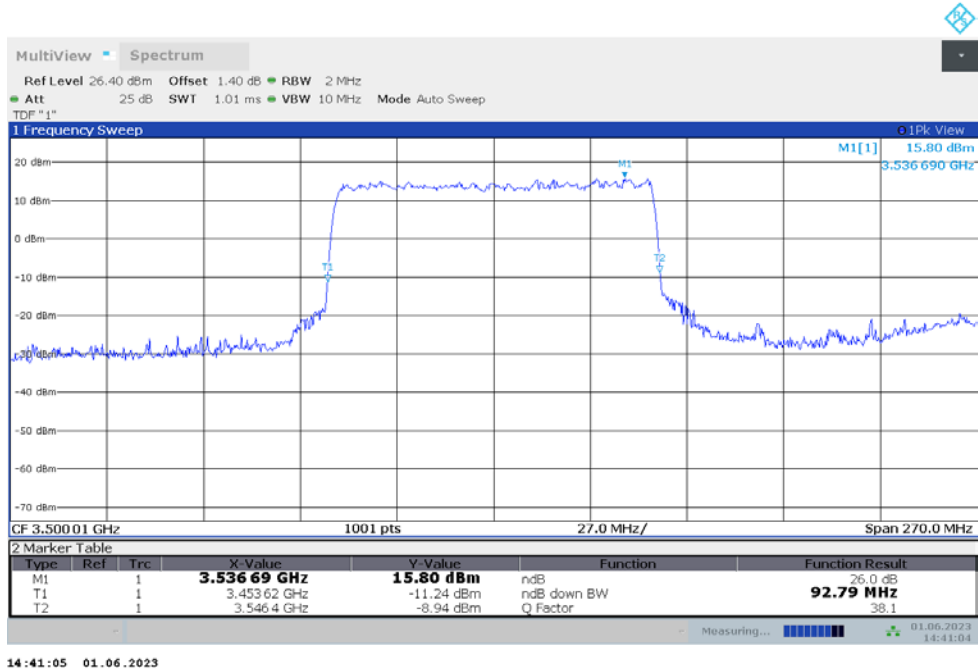
**n77L,80MHz Bandwidth,CP 16QAM (-26dBc BW)**



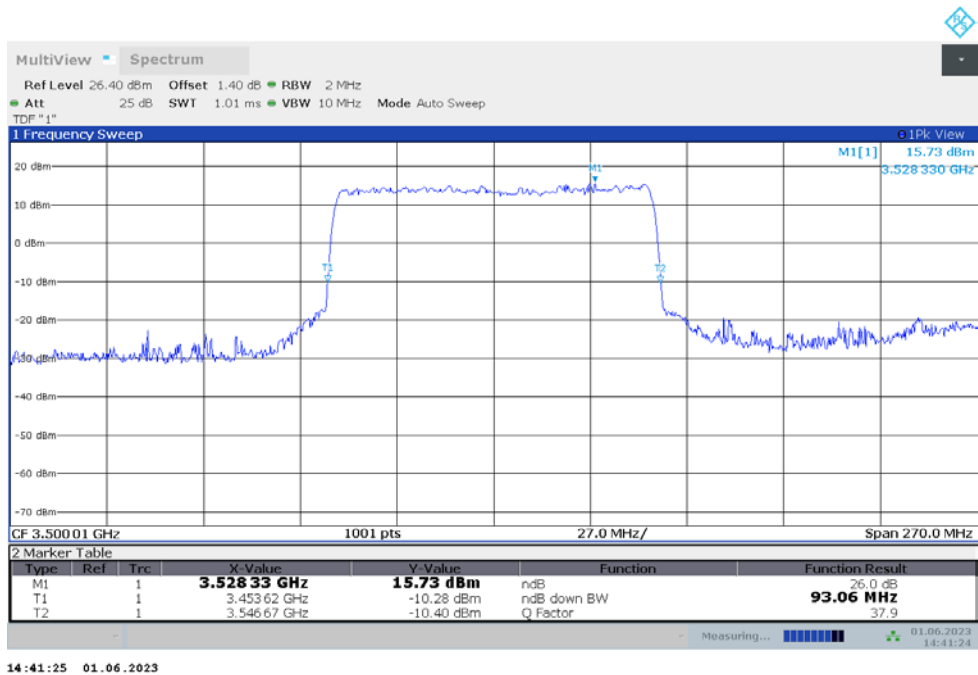
**n77L-MIMO,90MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3500.01	92.790	93.060

**n77L,90MHz Bandwidth,CP QPSK (-26dBc BW)**

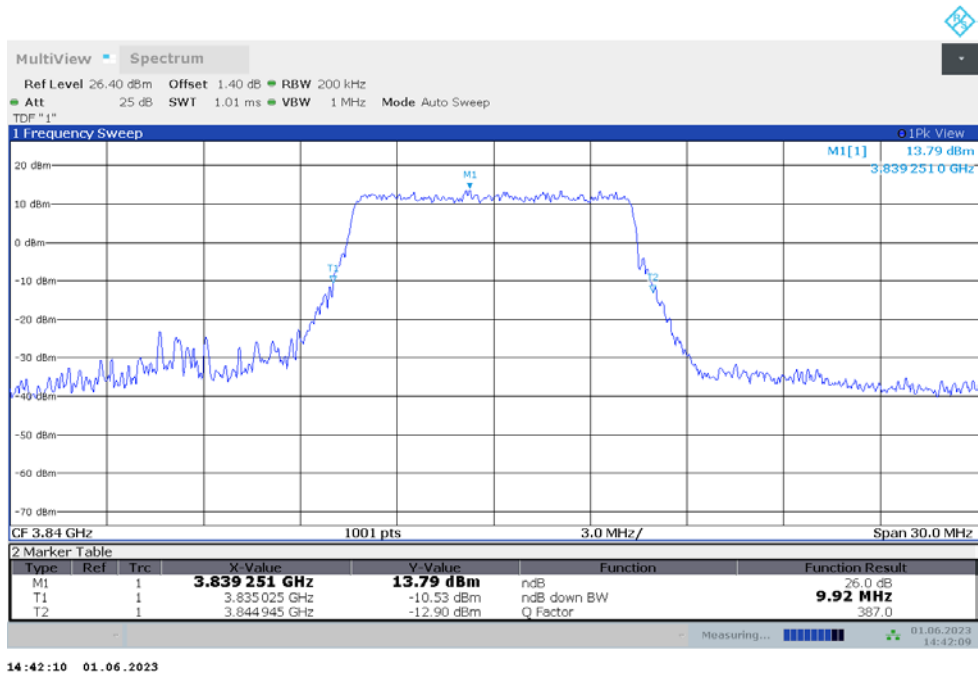
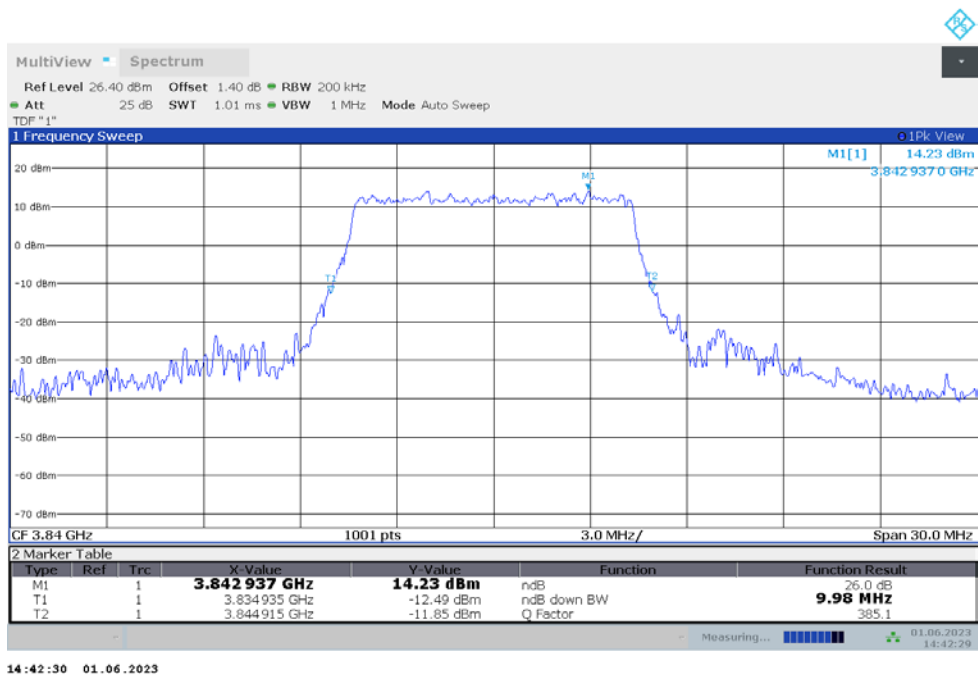


**n77L,90MHz Bandwidth,CP 16QAM (-26dBc BW)**



**n77H**
**n77H-MIMO,10MHz(-26dBc)**

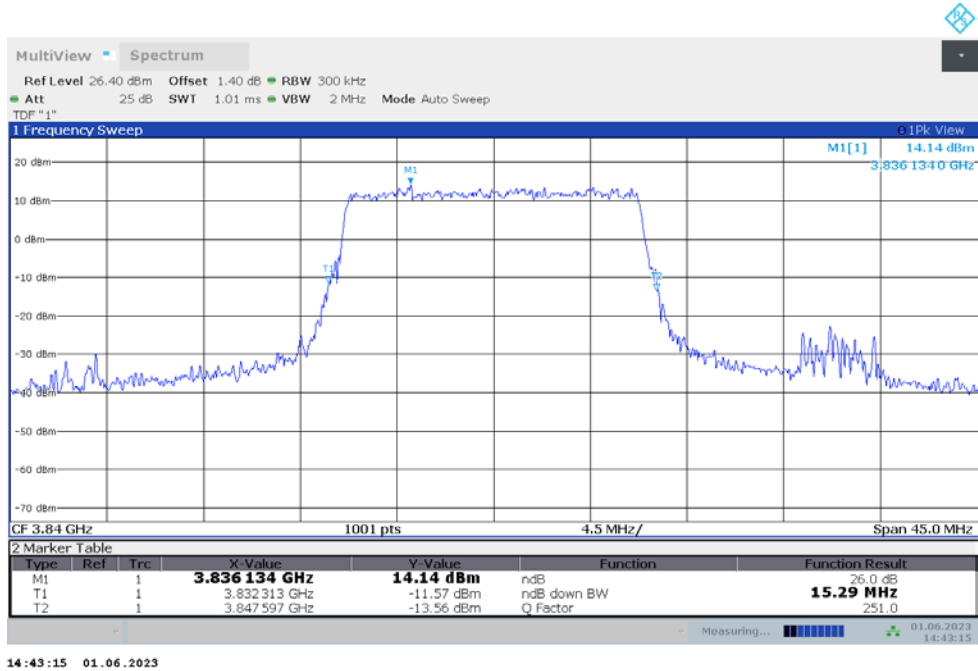
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3840	9.920	9.980

**n77H,10MHz Bandwidth,CP QPSK (-26dBc BW)**

**n77H,10MHz Bandwidth,CP 16QAM (-26dBc BW)**


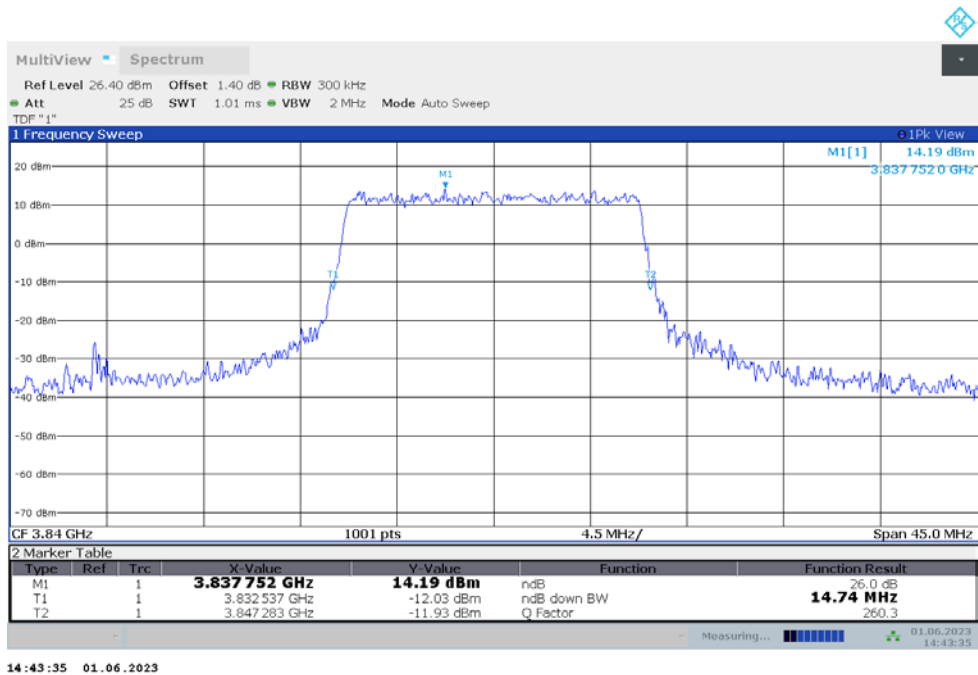
**n77H-MIMO,15MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3840	15.285	14.745

**n77H,15MHz Bandwidth,CP QPSK (-26dBc BW)**



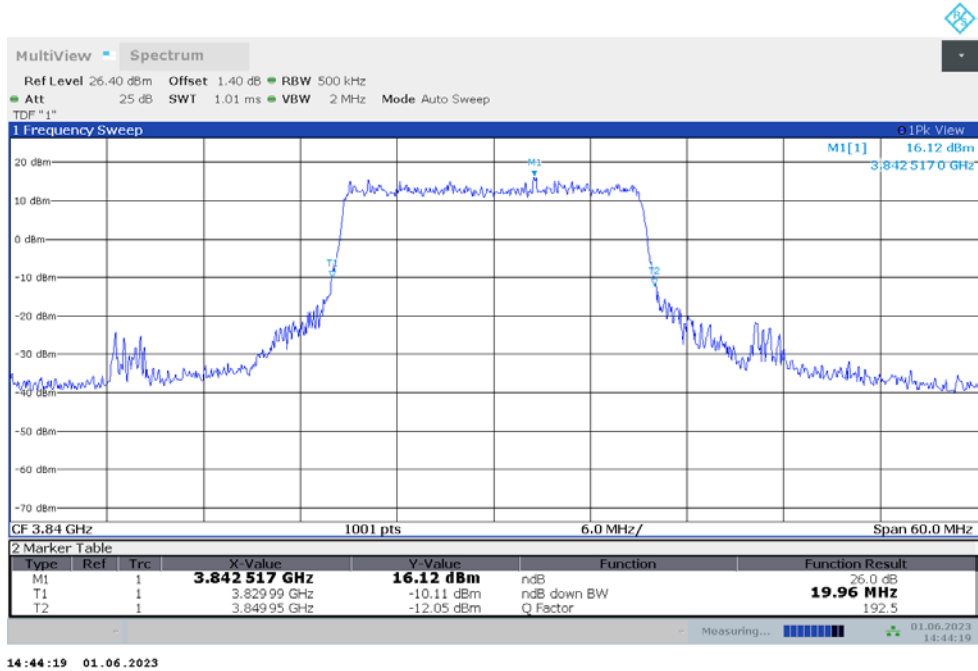
**n77H,15MHz Bandwidth,CP 16QAM (-26dBc BW)**



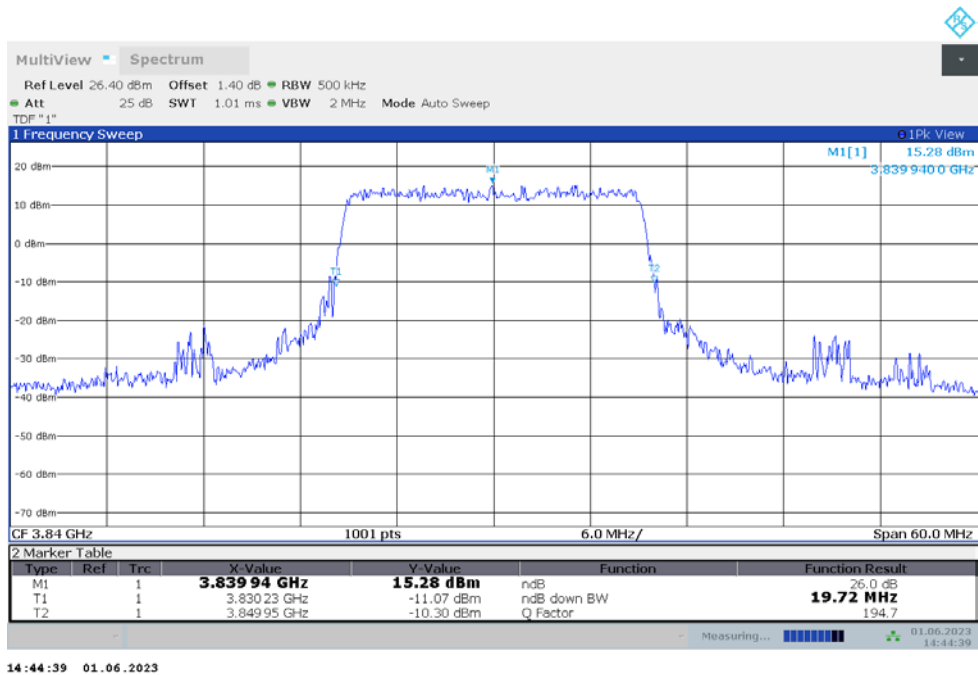
**n77H-MIMO,20MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3840	19.960	19.720

**n77H,20MHz Bandwidth,CP QPSK (-26dBc BW)**



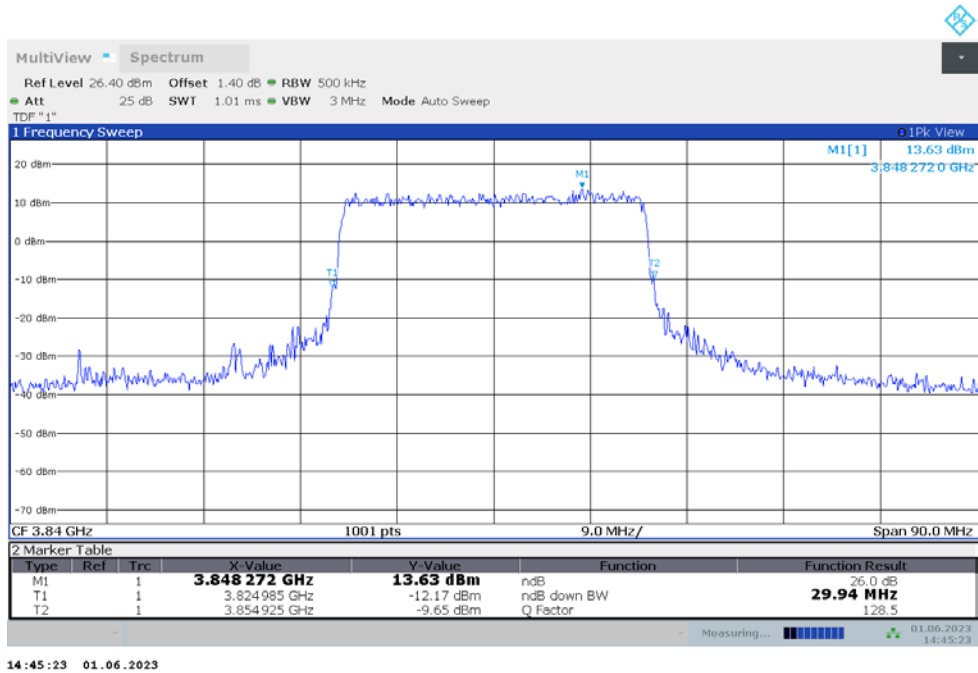
**n77H,20MHz Bandwidth,CP 16QAM (-26dBc BW)**



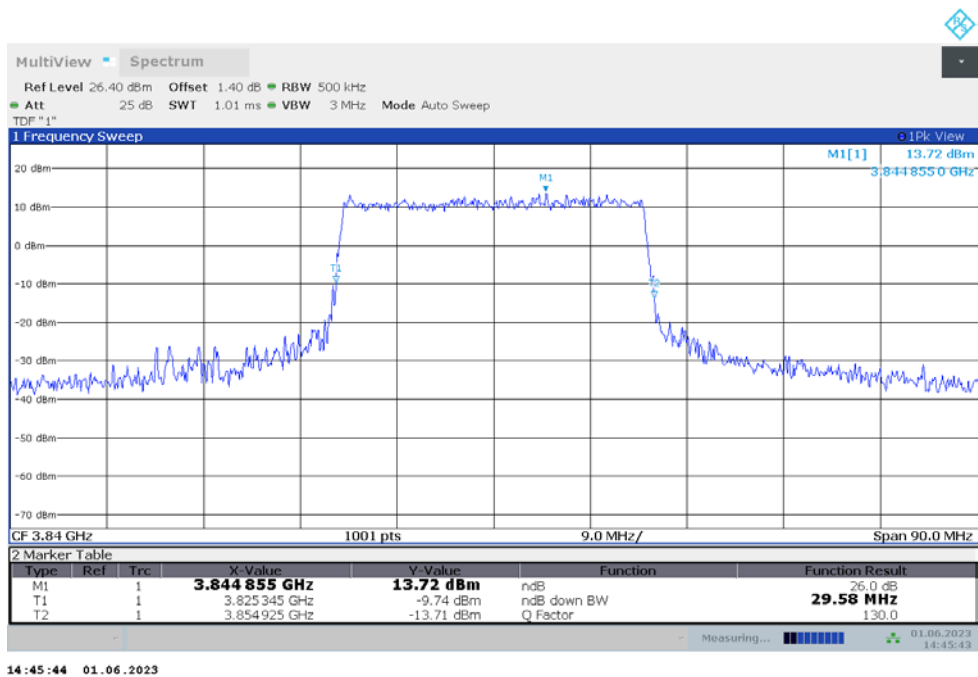
**n77H-MIMO,30MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3840	29.940	29.580

**n77H,30MHz Bandwidth,CP QPSK (-26dBc BW)**



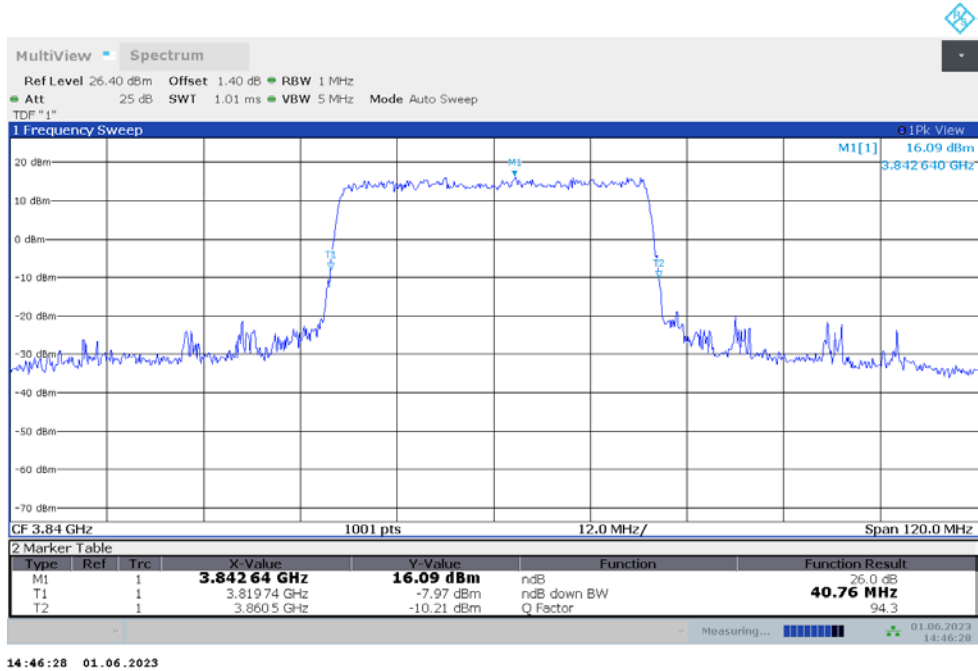
**n77H,30MHz Bandwidth,CP 16QAM (-26dBc BW)**



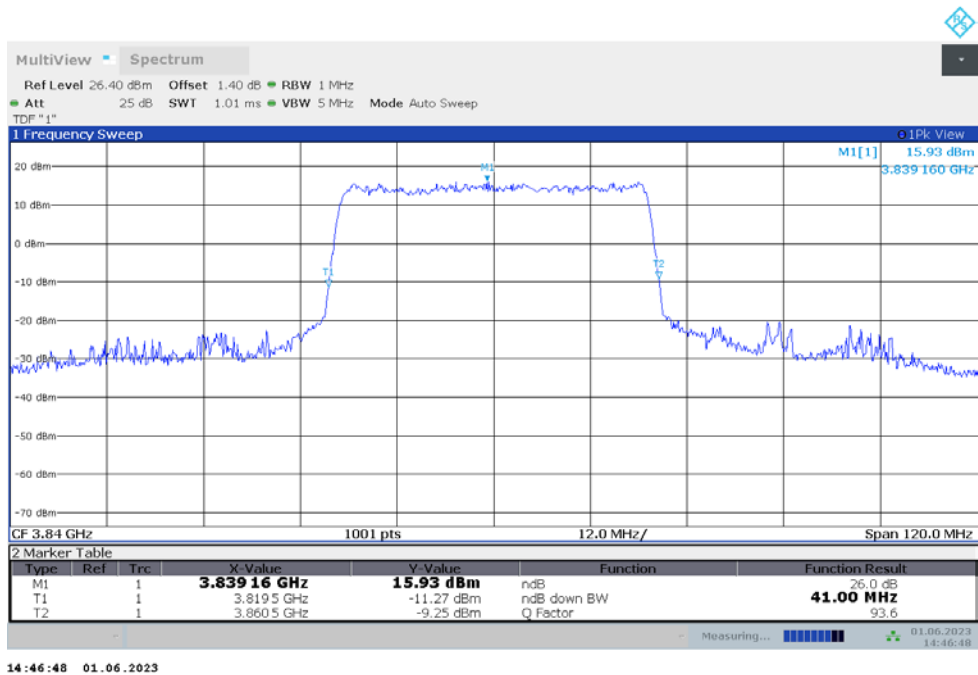
**n77H-MIMO,40MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3840	40.760	41.000

**n77H,40MHz Bandwidth,CP QPSK (-26dBc BW)**

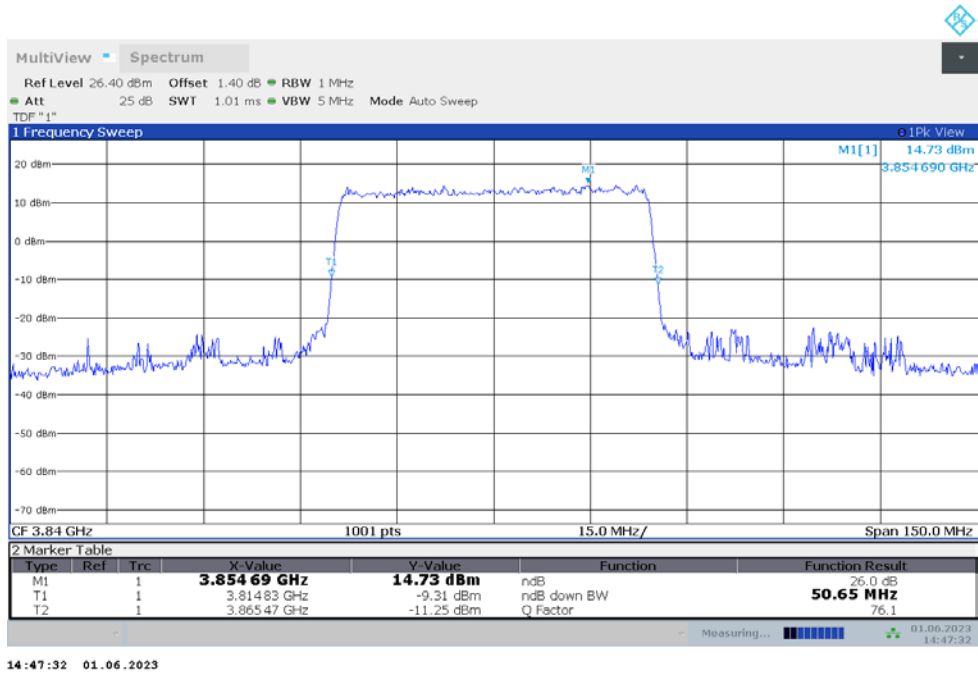
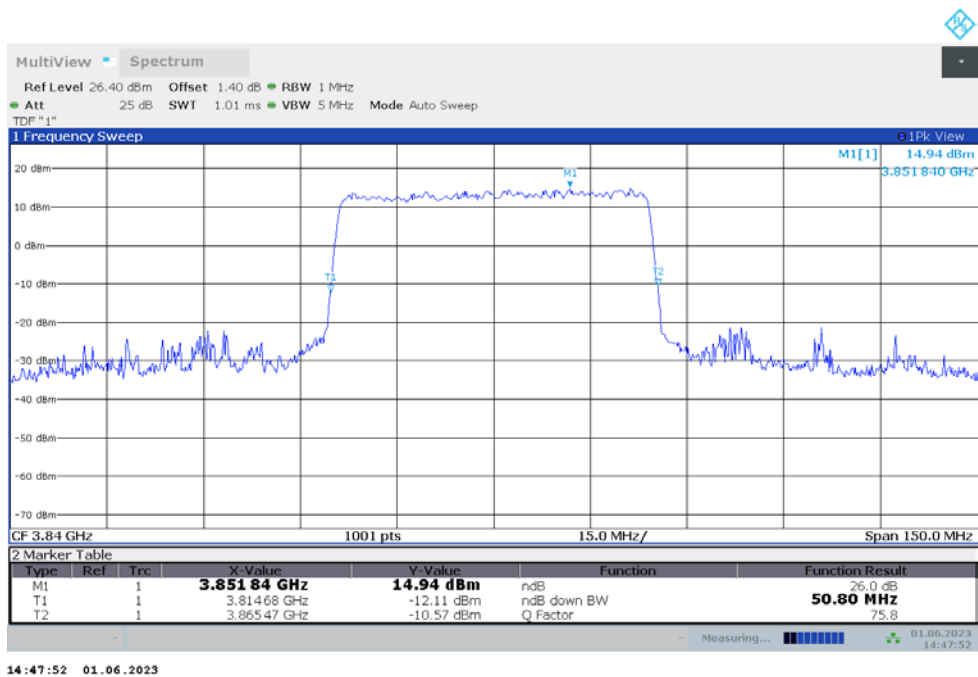


**n77H,40MHz Bandwidth,CP 16QAM (-26dBc BW)**



**n77H-MIMO,50MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3840	50.650	50.800

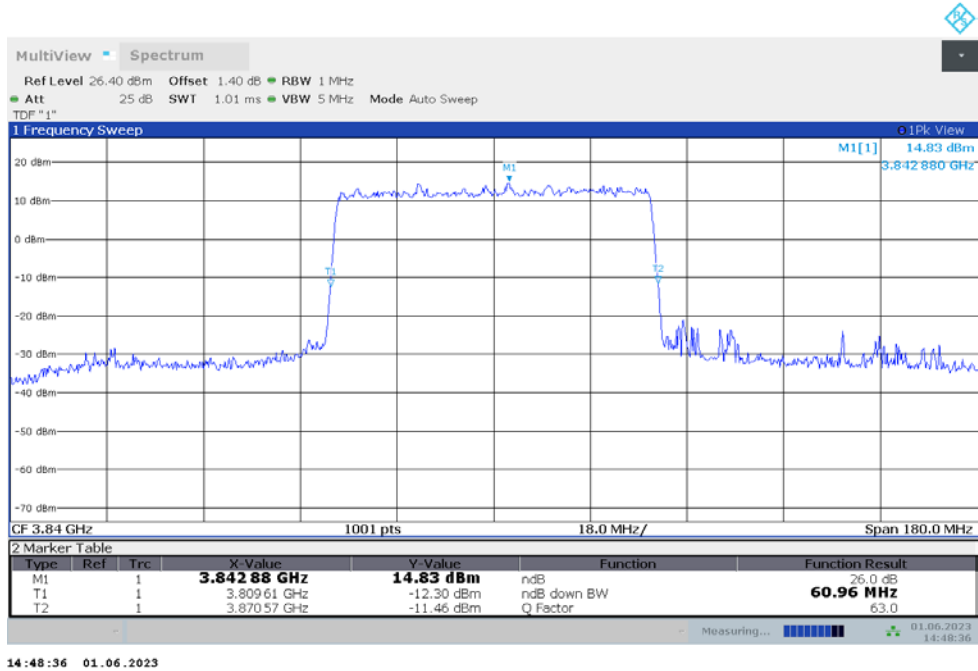
**n77H,50MHz Bandwidth,CP QPSK (-26dBc BW)**

**n77H,50MHz Bandwidth,CP 16QAM (-26dBc BW)**




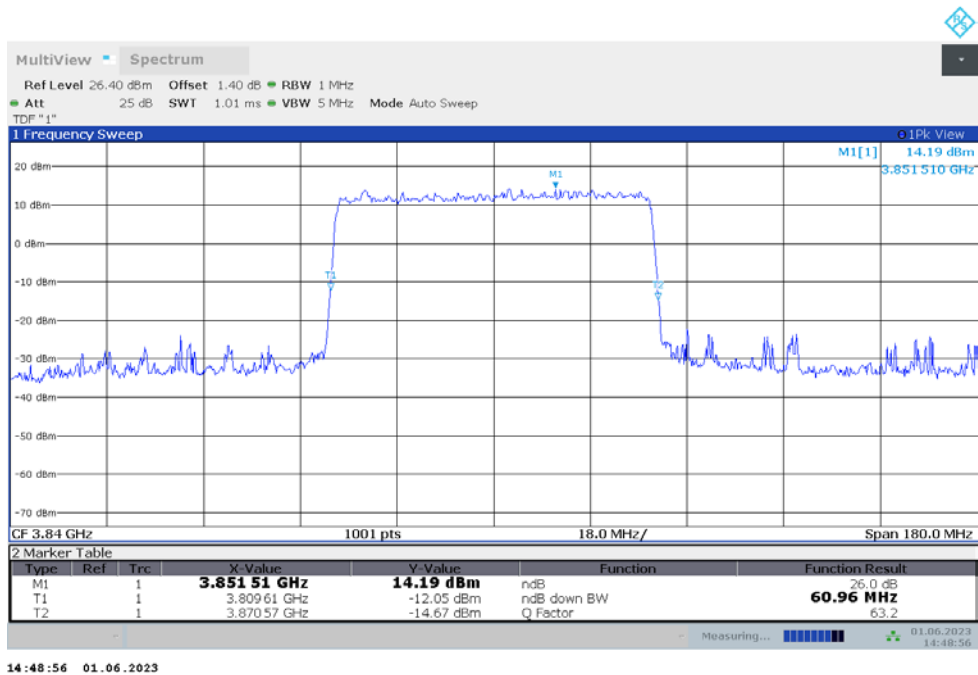
**n77H-MIMO,60MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3840	60.960	60.960

**n77H,60MHz Bandwidth,CP QPSK (-26dBc BW)**



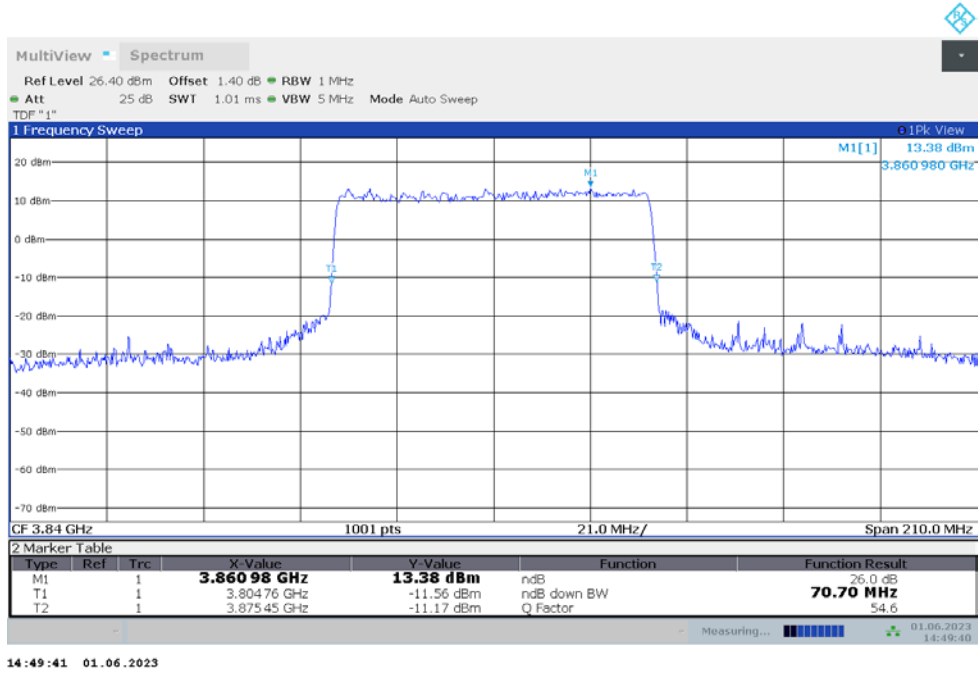
**n77H,60MHz Bandwidth,CP 16QAM (-26dBc BW)**



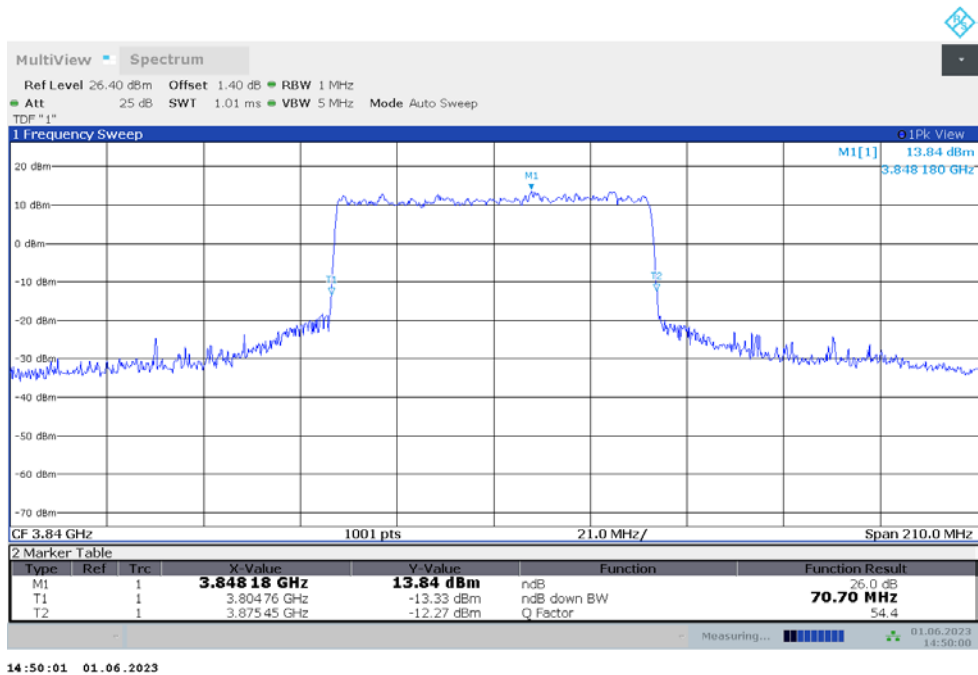
**n77H-MIMO,70MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3840	70.700	70.700

**n77H,70MHz Bandwidth,CP QPSK (-26dBc BW)**



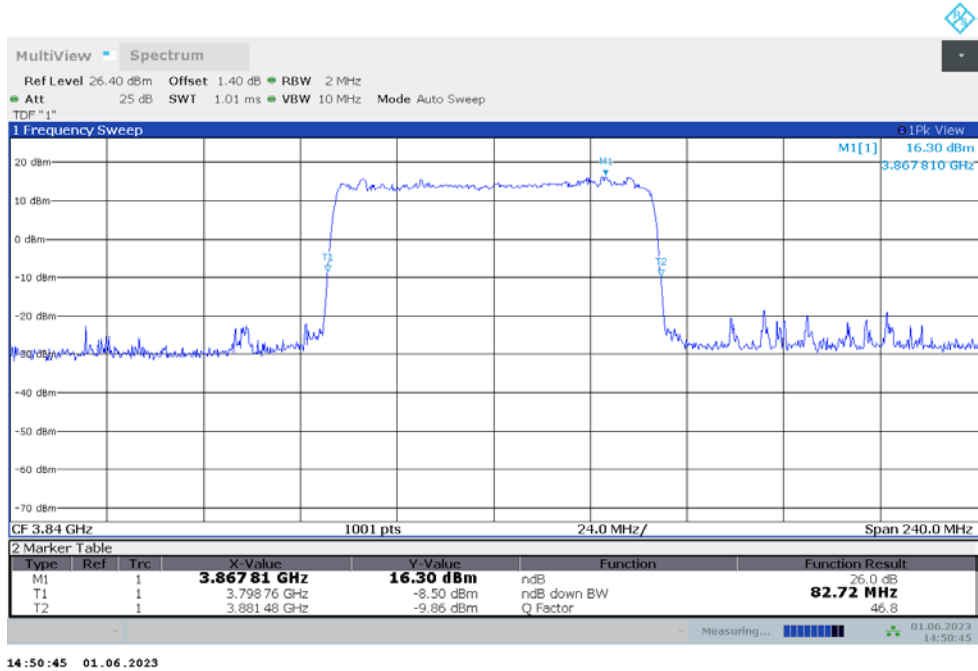
**n77H,70MHz Bandwidth,CP 16QAM (-26dBc BW)**



**n77H-MIMO,80MHz(-26dBc)**

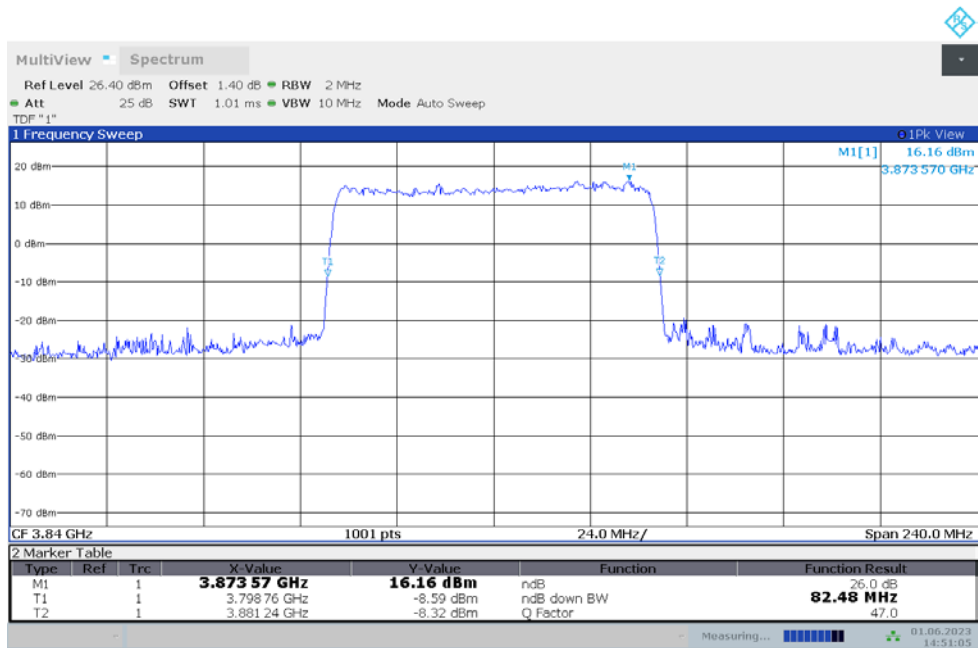
Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3840	82.720	82.480

**n77H,80MHz Bandwidth,CP QPSK (-26dBc BW)**



14:50:45 01.06.2023

**n77H,80MHz Bandwidth,CP 16QAM (-26dBc BW)**

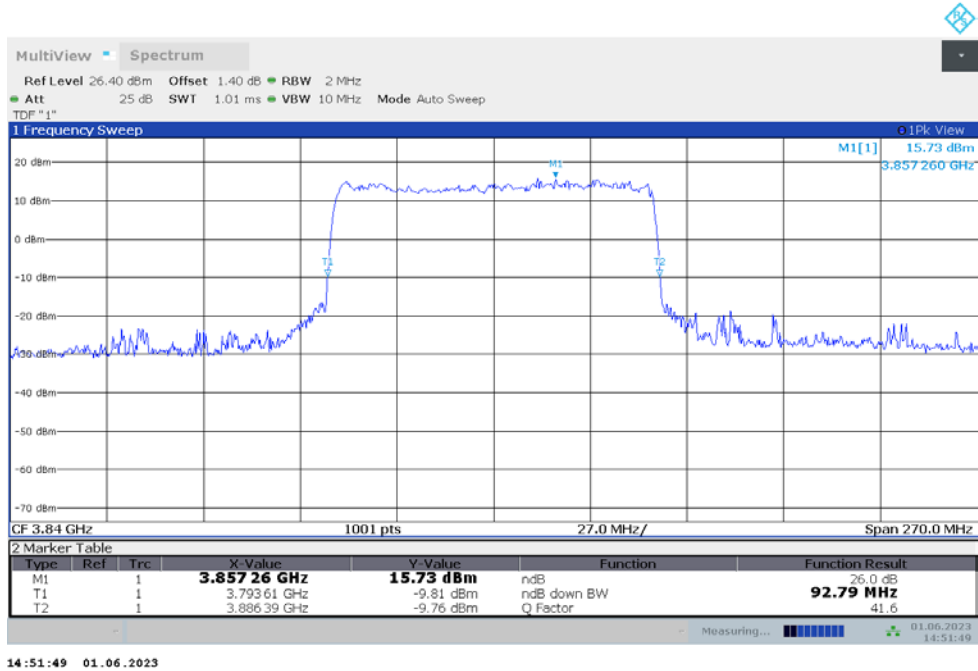


14:51:05 01.06.2023

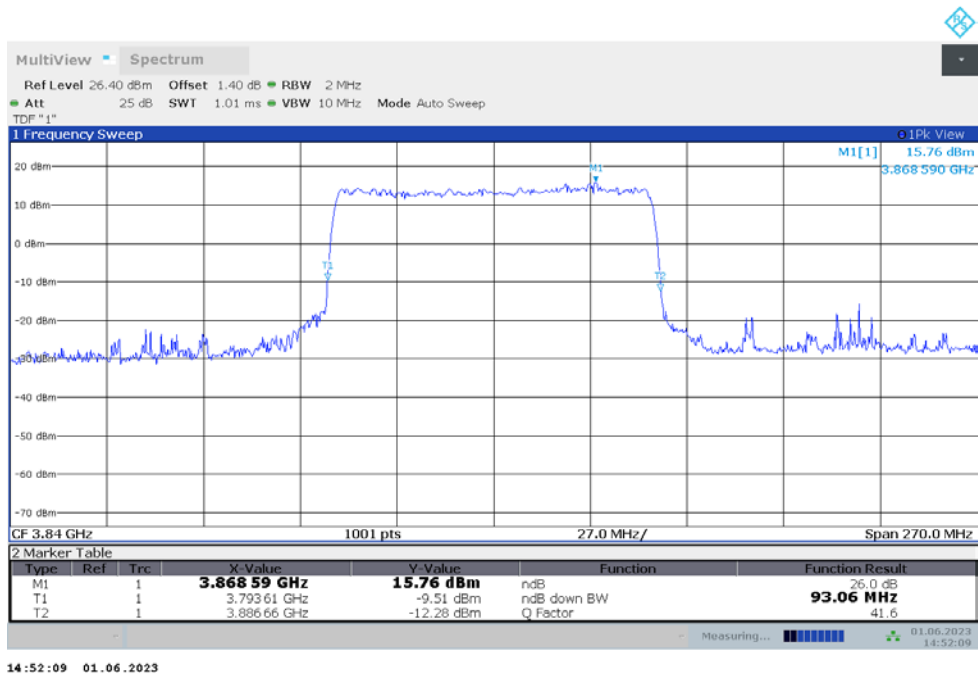
**n77H-MIMO,90MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3840	92.790	93.060

**n77H,90MHz Bandwidth,CP QPSK (-26dBc BW)**

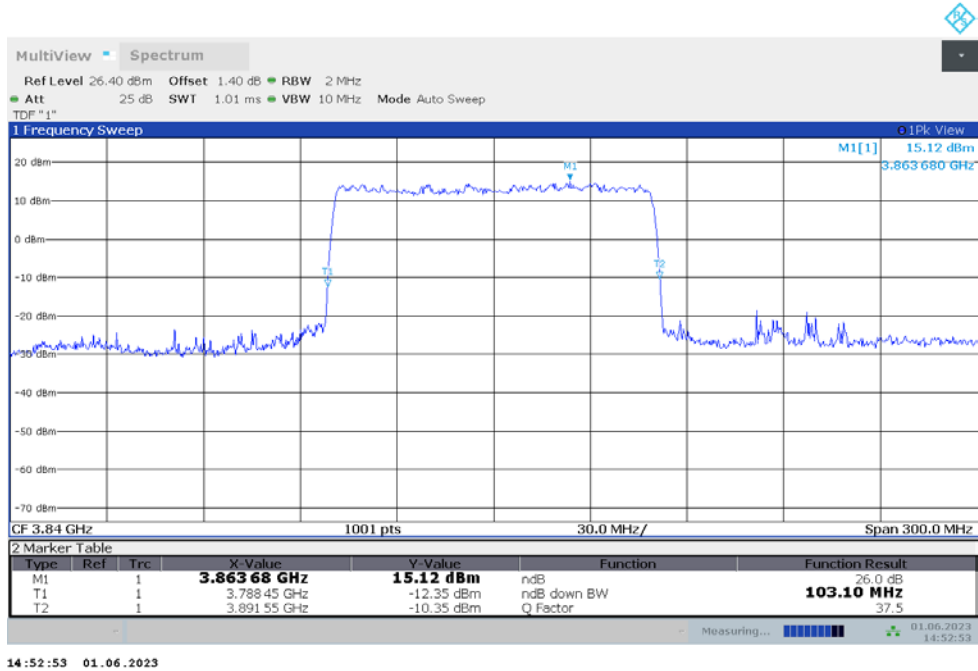
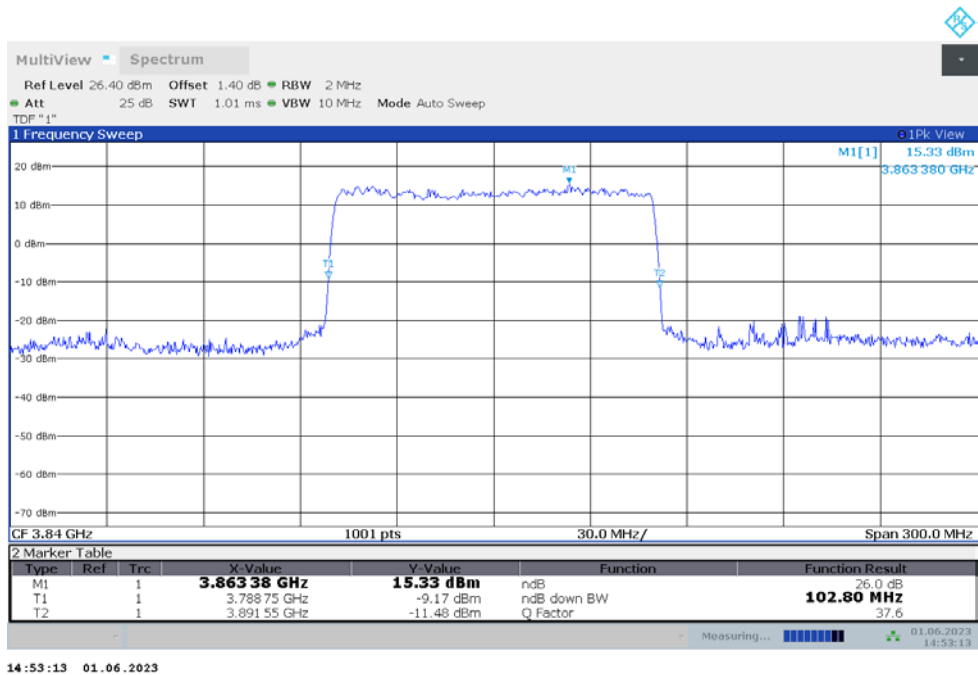


**n77H,90MHz Bandwidth,CP 16QAM (-26dBc BW)**



**n77H-MIMO,100MHz(-26dBc)**

Frequency (MHz)	Emission Bandwidth (-26dBc) (MHz)	
	CP QPSK	CP 16QAM
3840	103.100	102.800

**n77H,100MHz Bandwidth,CP QPSK (-26dBc BW)**

**n77H,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 22.917, 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(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 2337MHz; 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 2300MHz,  $61 + 10 \log(P)$  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.

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