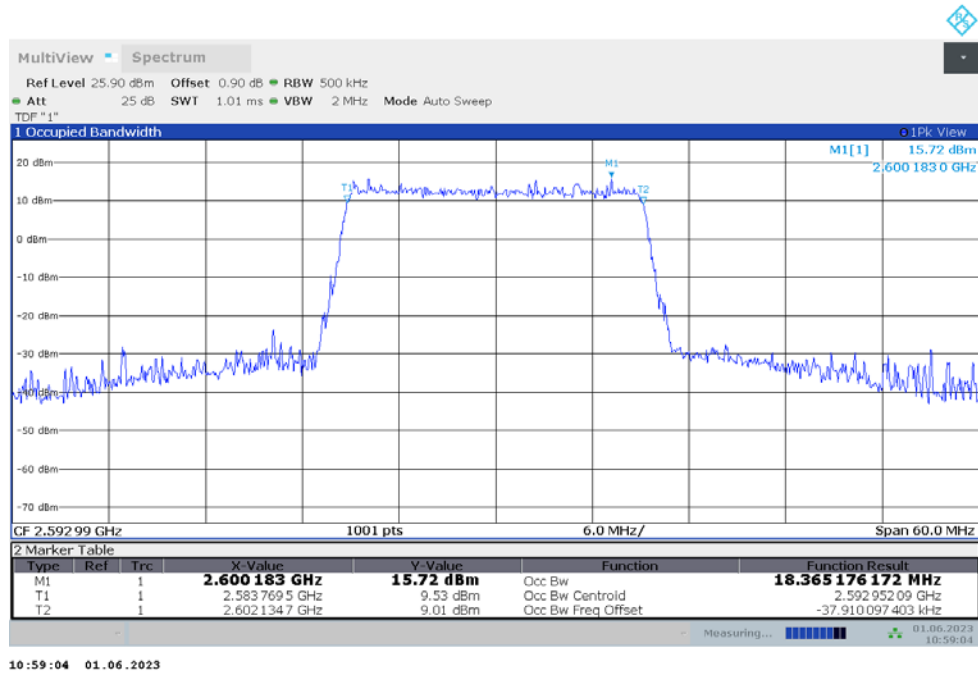


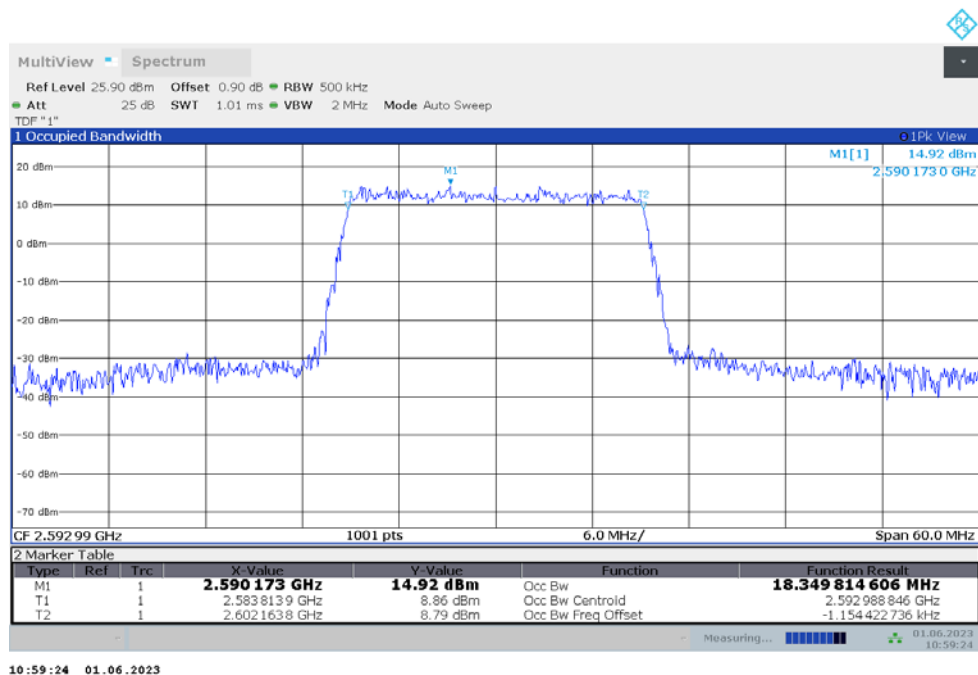
### n41-MIMO,20MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 2592.99         | 18.322                         | 18.350   |

### n41,20MHz Bandwidth,CP QPSK (99% BW)



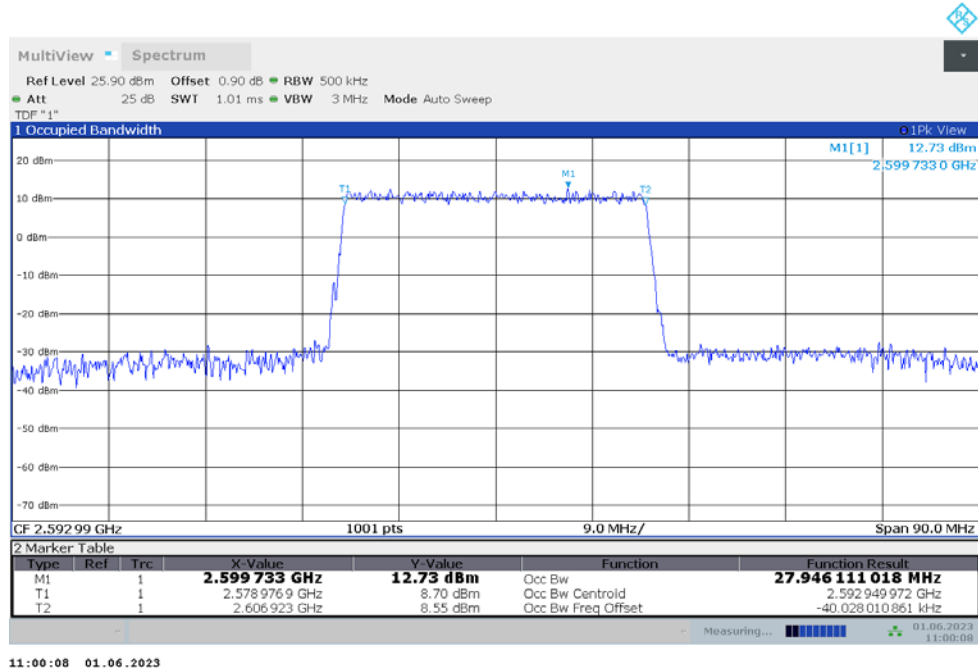
### n41,20MHz Bandwidth,CP 16QAM (99% BW)



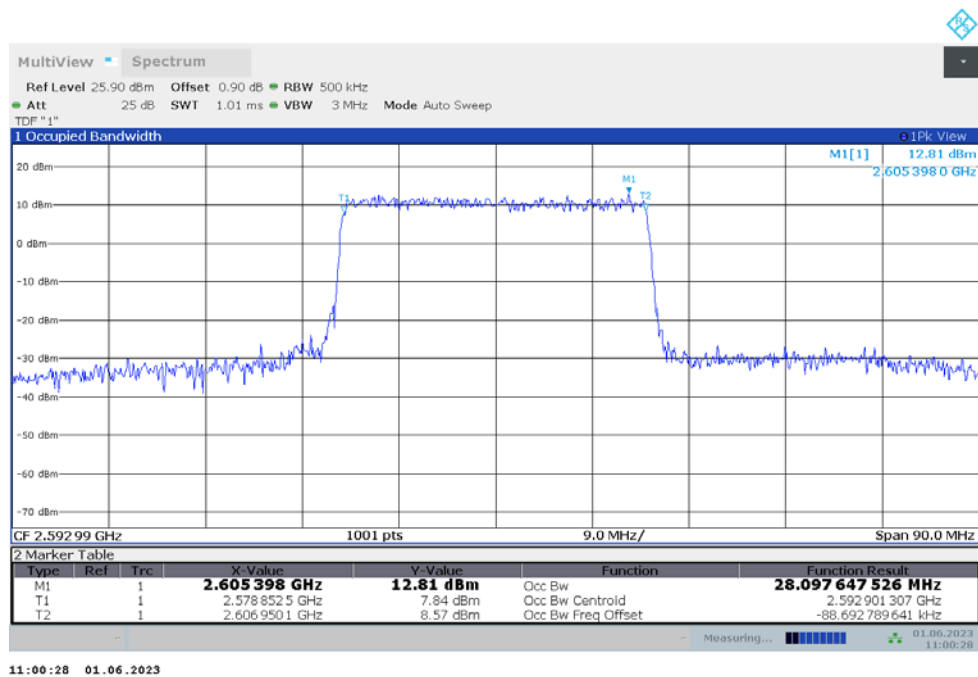
### n41-MIMO,30MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 2592.99         | 27.832                         | 27.883   |

### n41,30MHz Bandwidth,CP QPSK (99% BW)



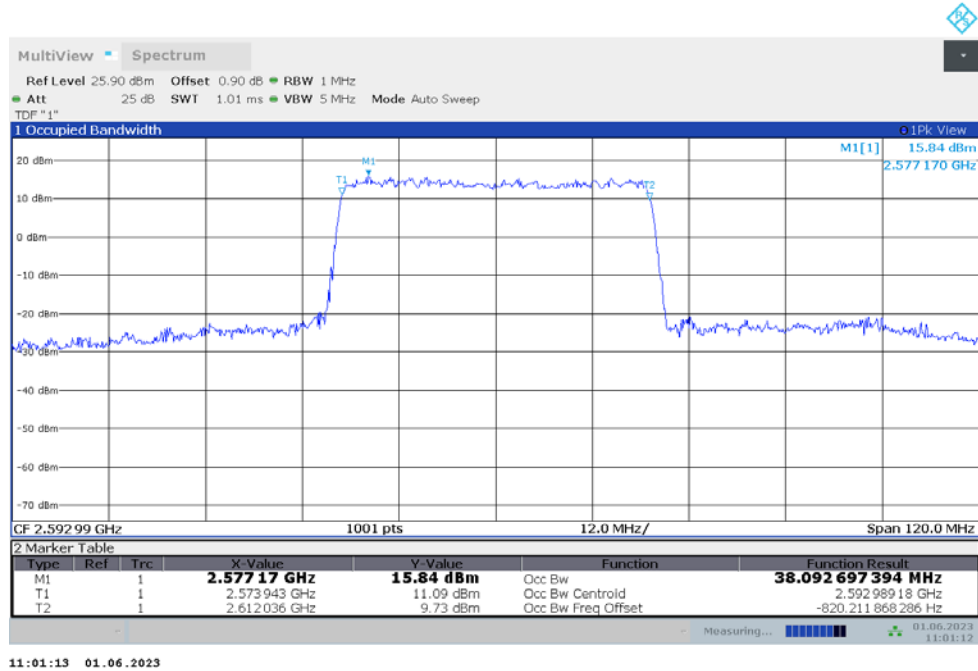
### n41,30MHz Bandwidth,CP 16QAM (99% BW)



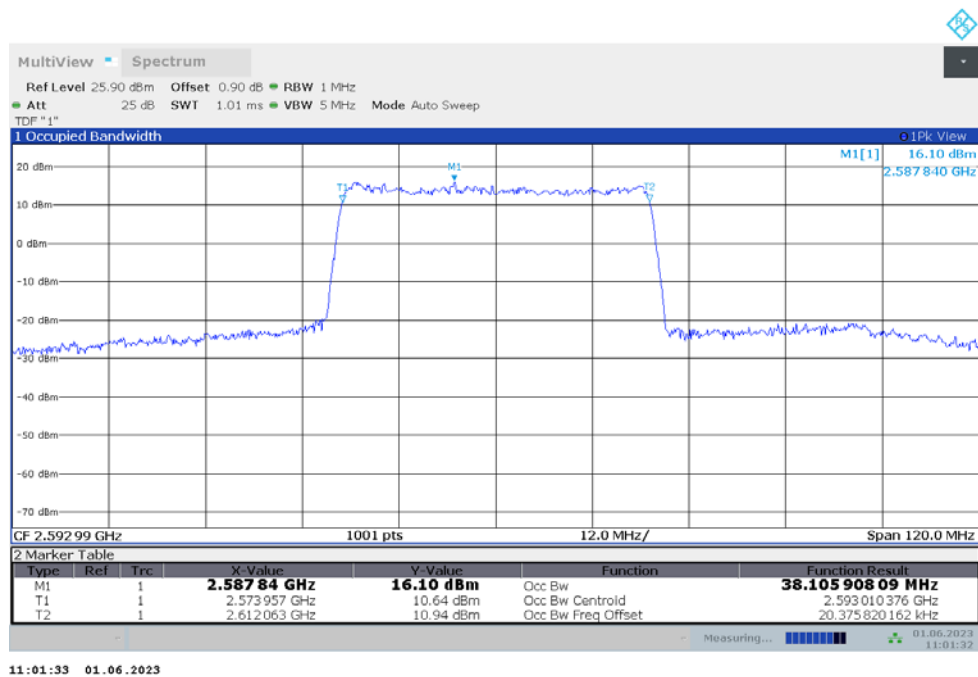
### n41-MIMO,40MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 2592.99         | 38.149                         | 38.094   |

### n41,40MHz Bandwidth,CP QPSK (99% BW)



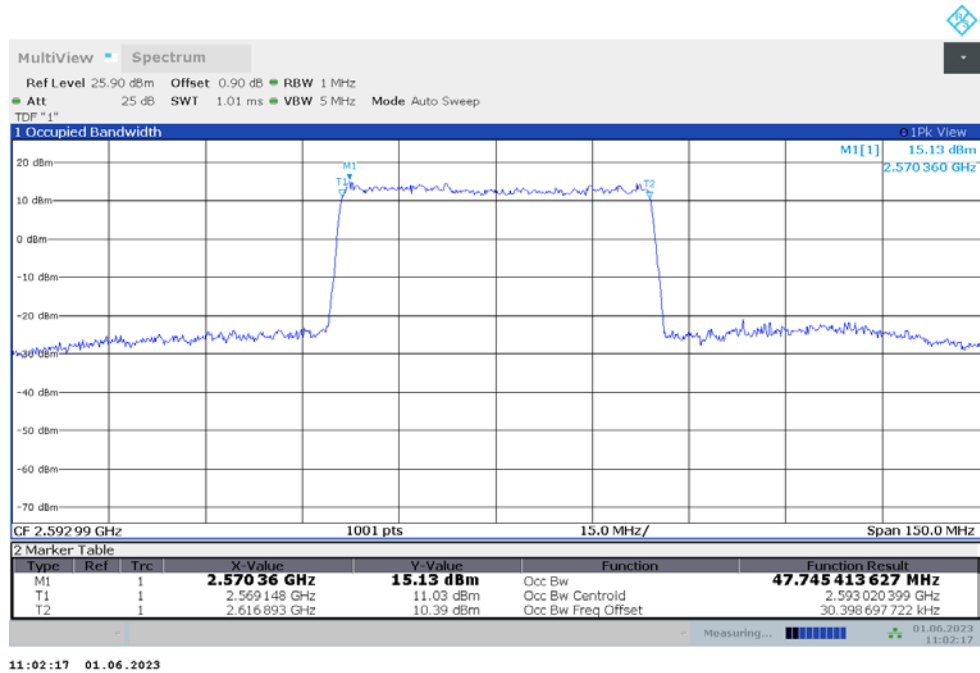
### n41,40MHz Bandwidth,CP 16QAM (99% BW)



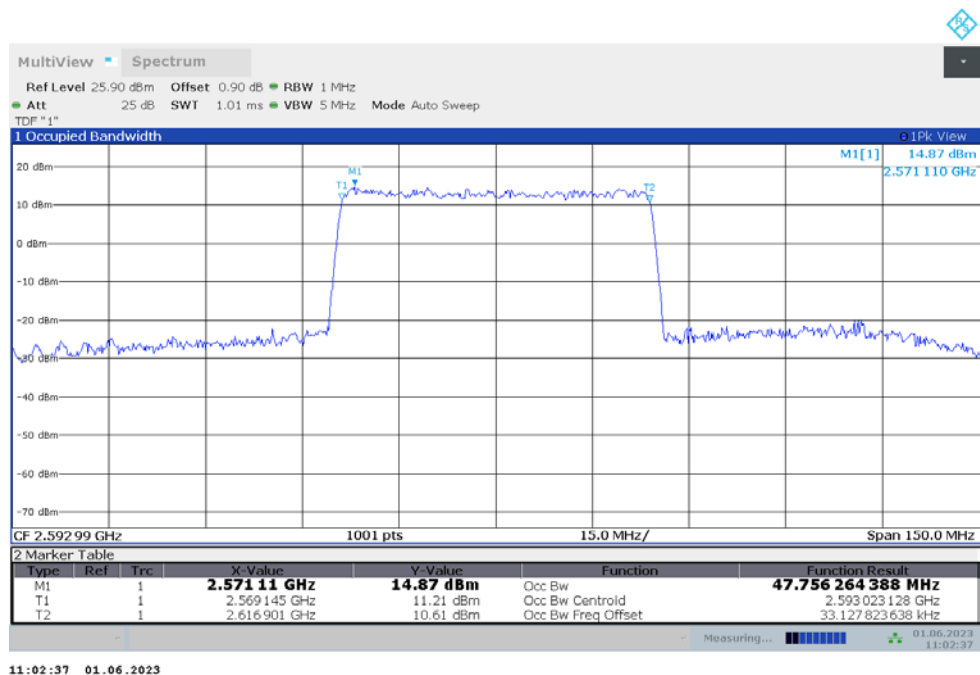
### n41-MIMO,50MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 2592.99         | 47.684                         | 47.687   |

### n41,50MHz Bandwidth,CP QPSK (99% BW)



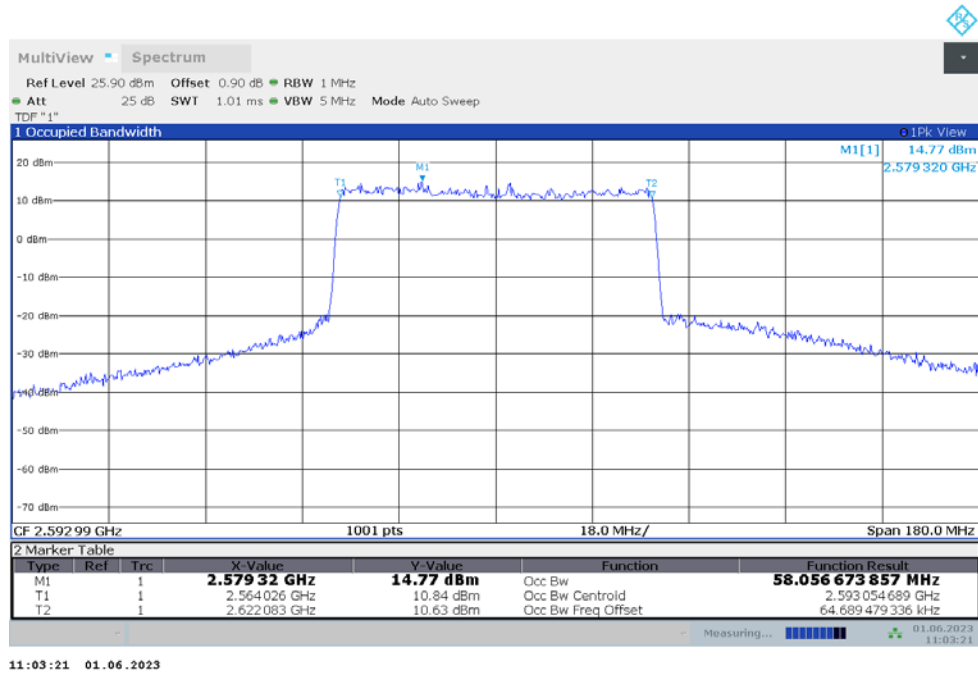
### n41,50MHz Bandwidth,CP 16QAM (99% BW)



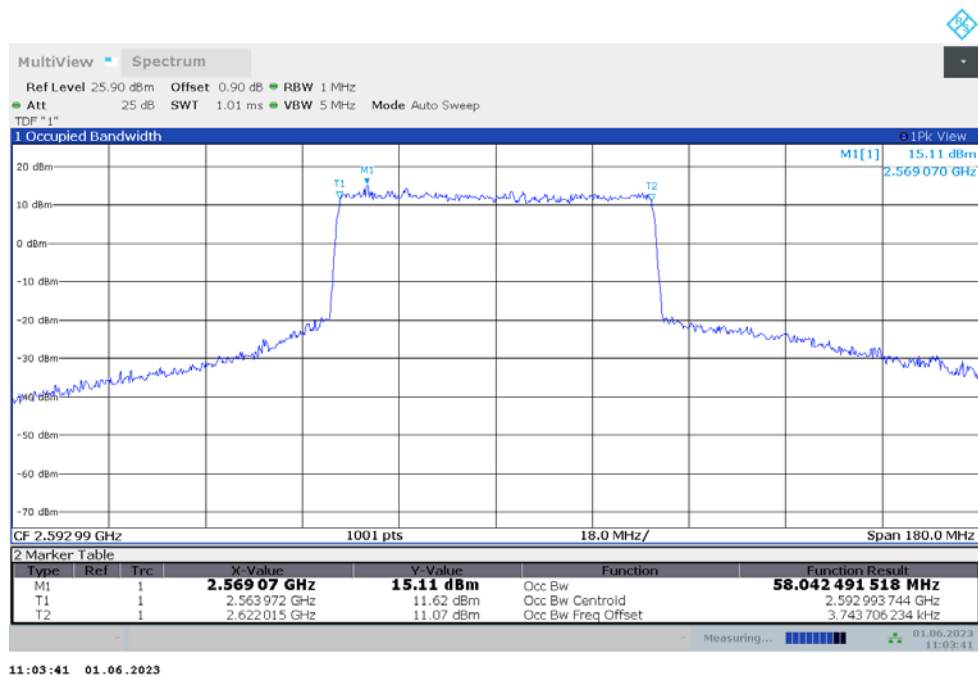
### n41-MIMO,60MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 2592.99         | 58.226                         | 58.082   |

### n41,60MHz Bandwidth,CP QPSK (99% BW)



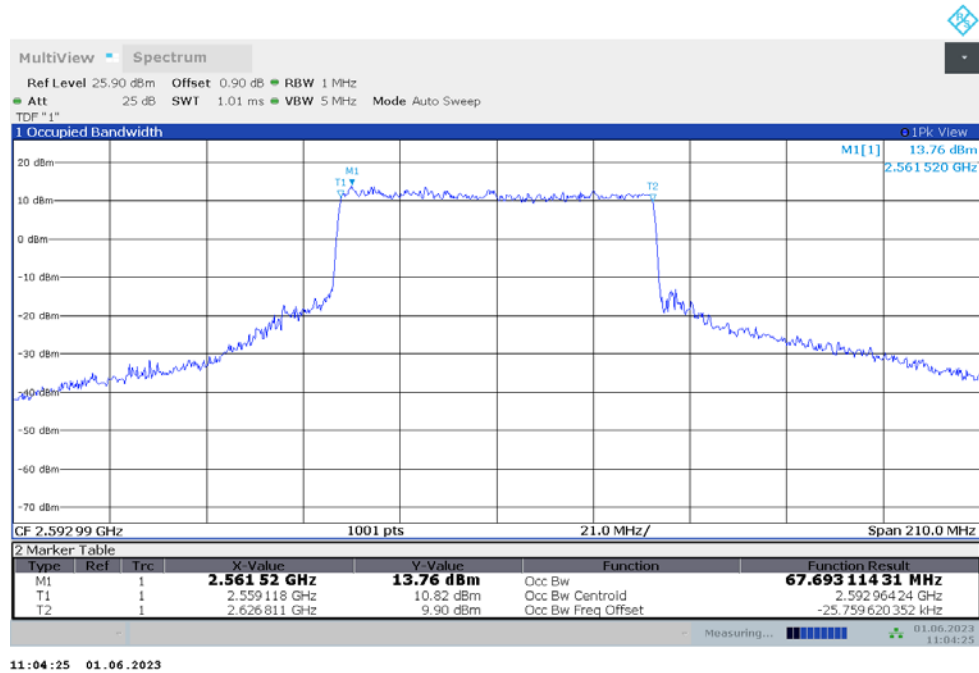
### n41,60MHz Bandwidth,CP 16QAM (99% BW)



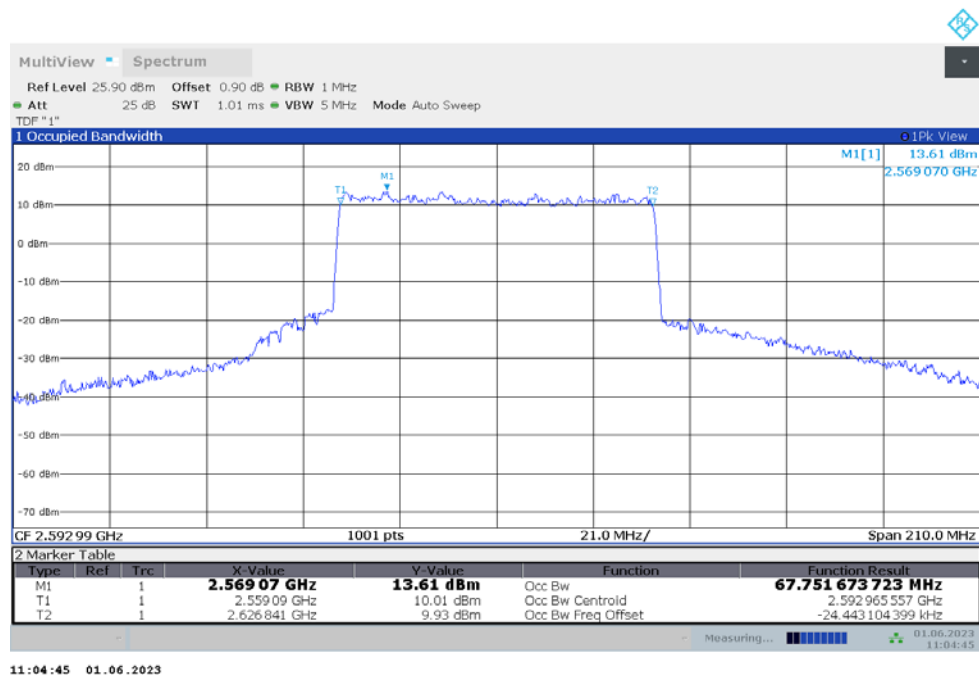
### n41-MIMO,70MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 2592.99         | 67.763                         | 67.678   |

### n41,70MHz Bandwidth,CP QPSK (99% BW)



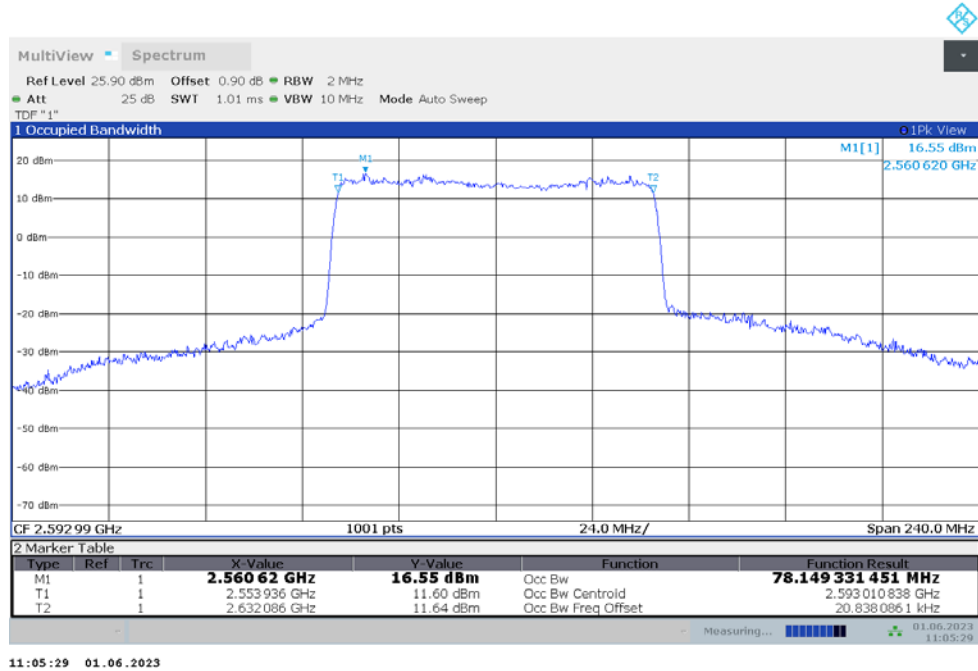
### n41,70MHz Bandwidth,CP 16QAM (99% BW)



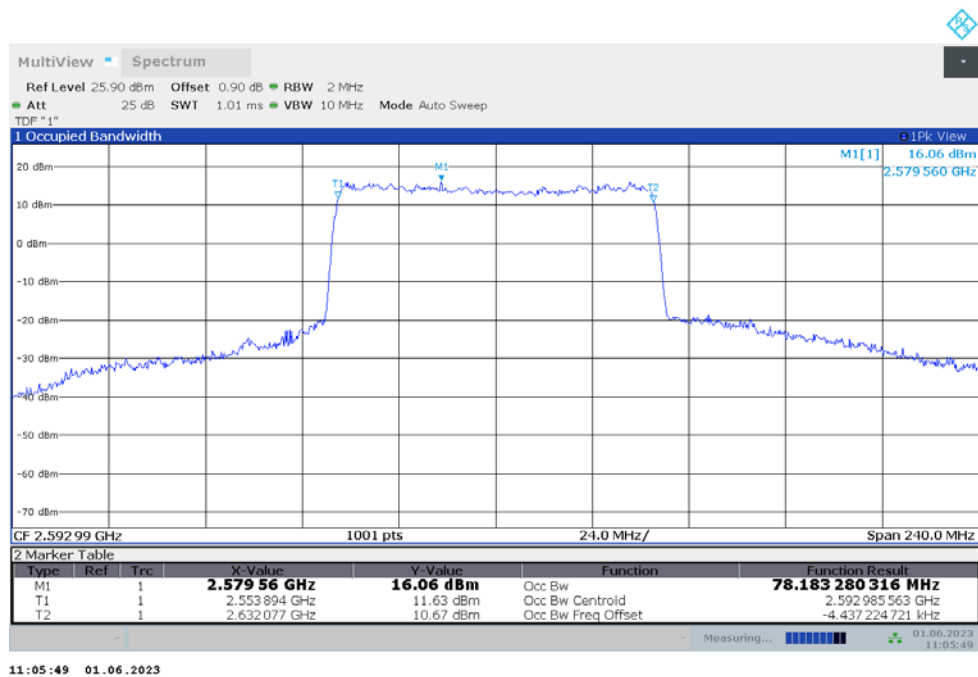
### n41-MIMO,80MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 2592.99         | 78.160                         | 78.110   |

### n41,80MHz Bandwidth,CP QPSK (99% BW)



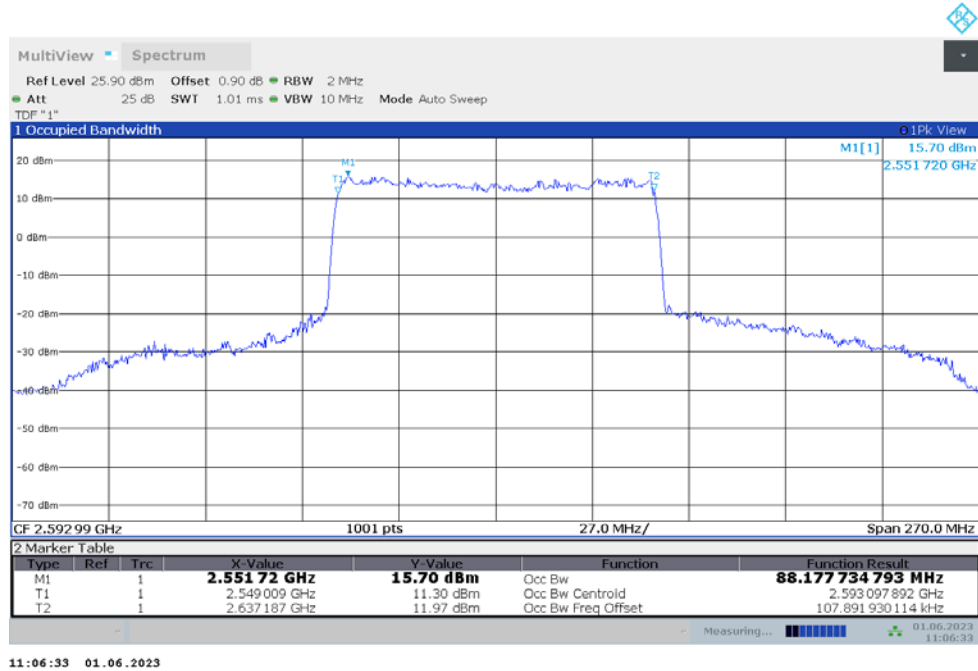
### n41,80MHz Bandwidth,CP 16QAM (99% BW)



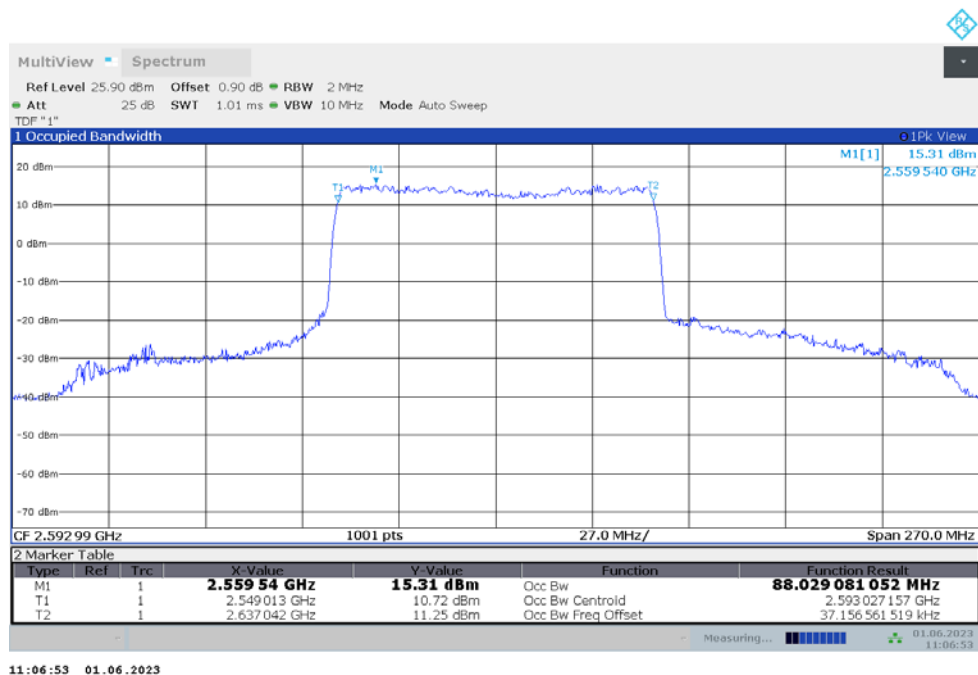
### n41-MIMO,90MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 2592.99         | 88.082                         | 88.058   |

### n41,90MHz Bandwidth,CP QPSK (99% BW)



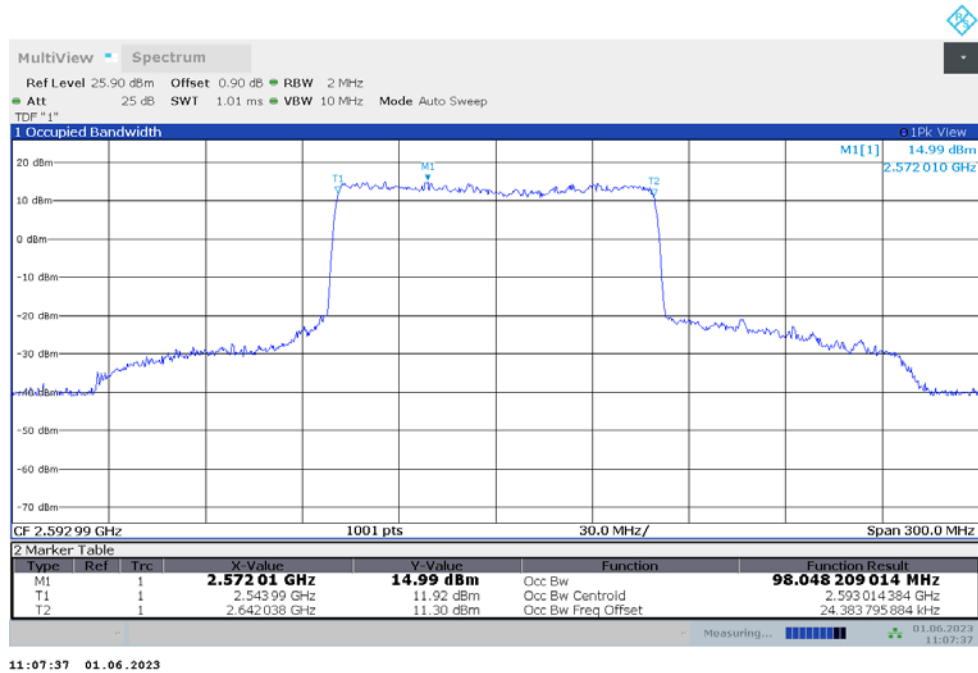
### n41,90MHz Bandwidth,CP 16QAM (99% BW)



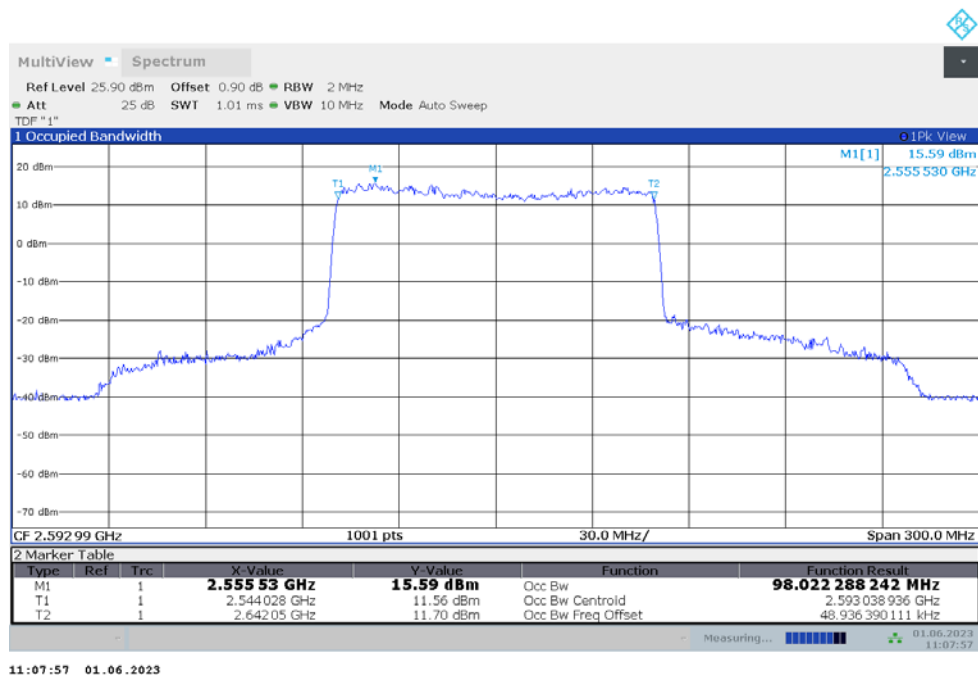
### n41-MIMO,100MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 2592.99         | 97.897                         | 97.986   |

### n41,100MHz Bandwidth,CP QPSK (99% BW)



### n41,100MHz Bandwidth,CP 16QAM (99% BW)

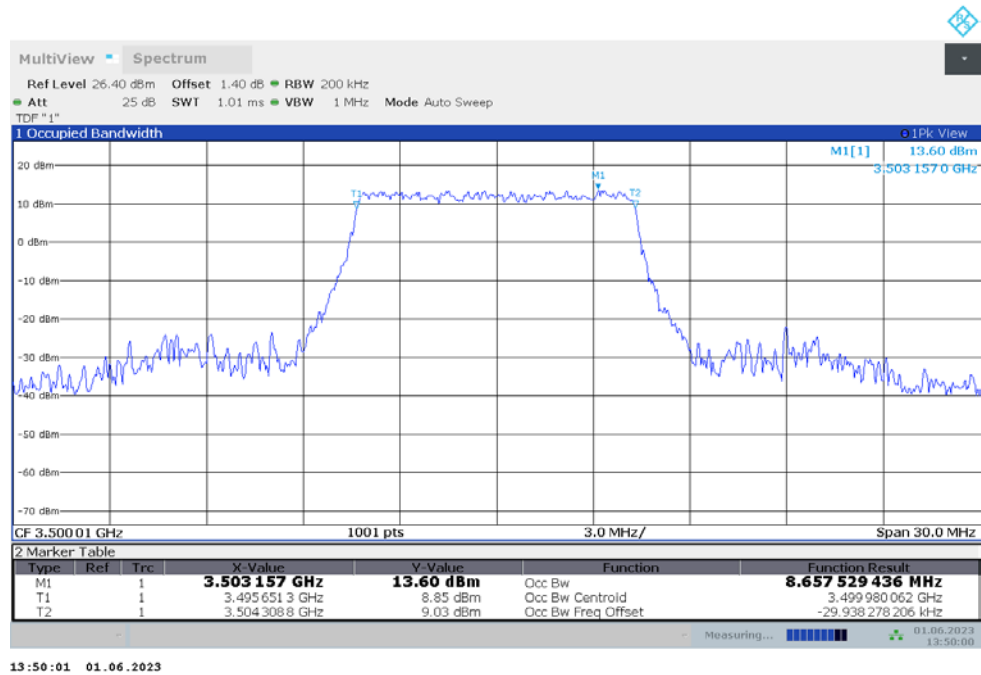


n77L

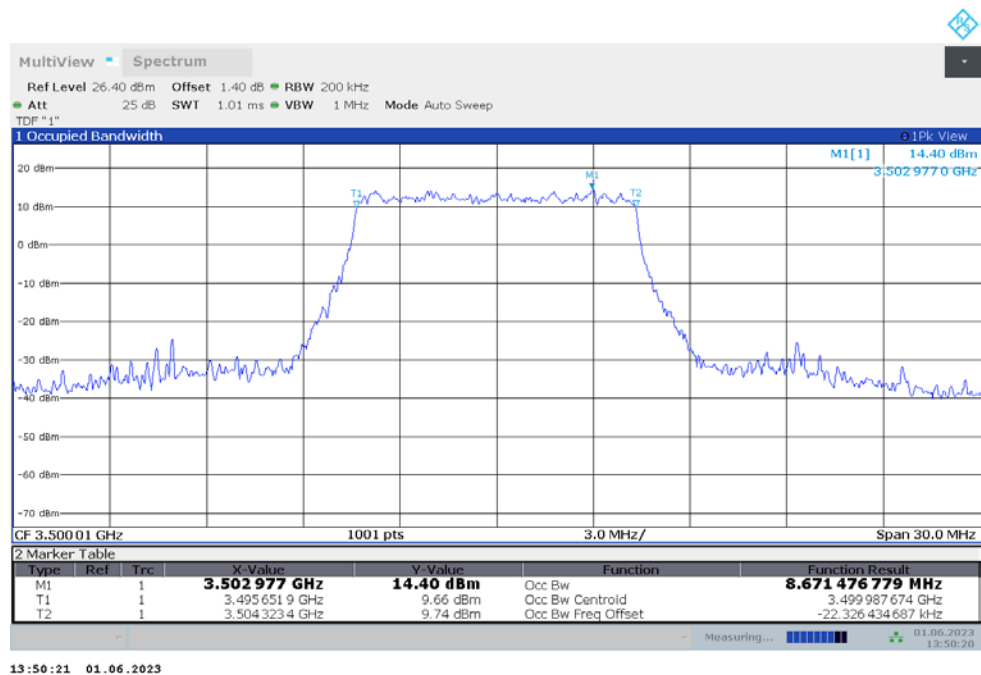
n77L-MIMO,10MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3500.01         | 8.658                          | 8.671    |

n77L,10MHz Bandwidth,CP QPSK (99% BW)



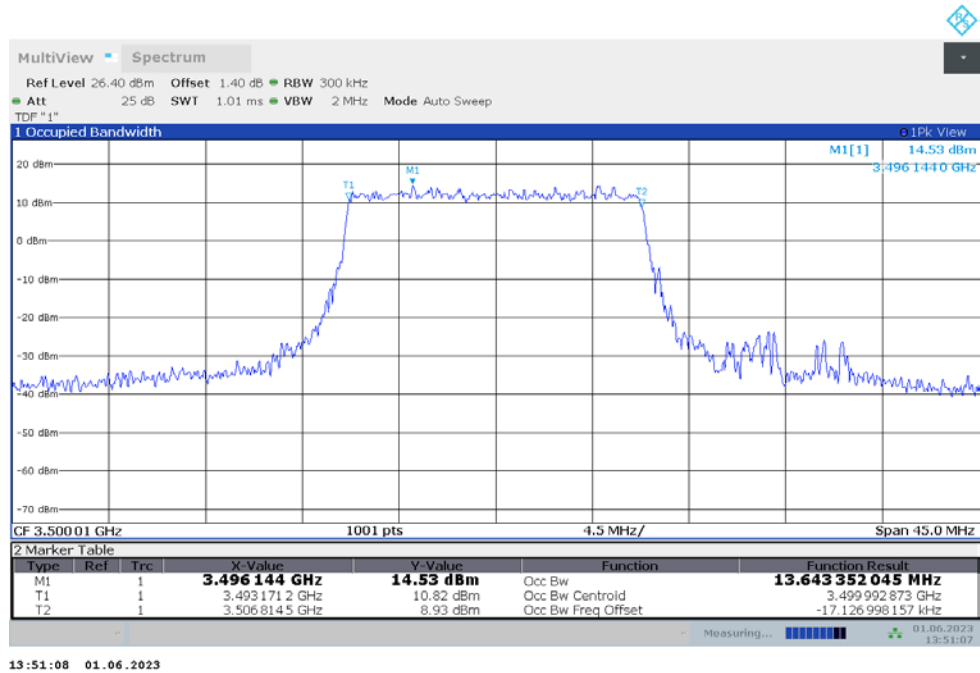
n77L,10MHz Bandwidth,CP 16QAM (99% BW)



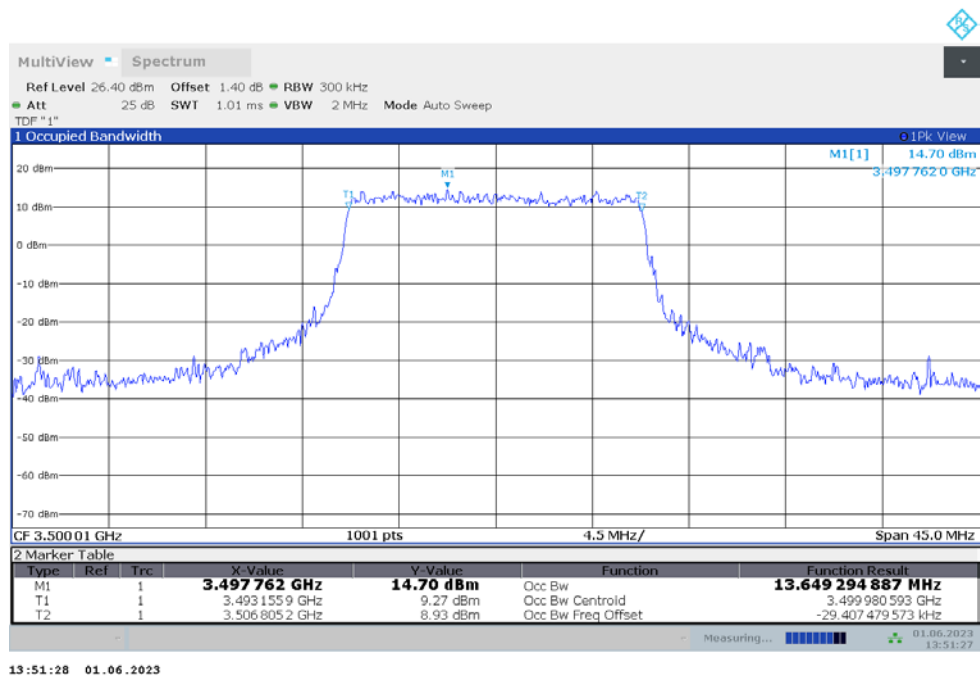
### n77L-MIMO,15MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3500.01         | 13.643                         | 13.649   |

### n77L,15MHz Bandwidth,CP QPSK (99% BW)



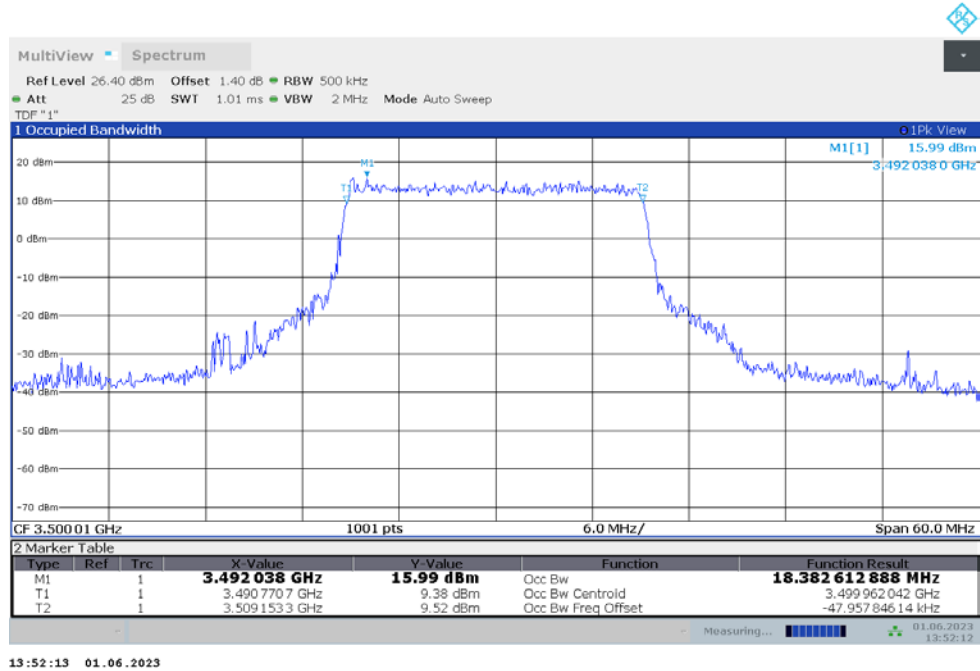
### n77L,15MHz Bandwidth,CP 16QAM (99% BW)



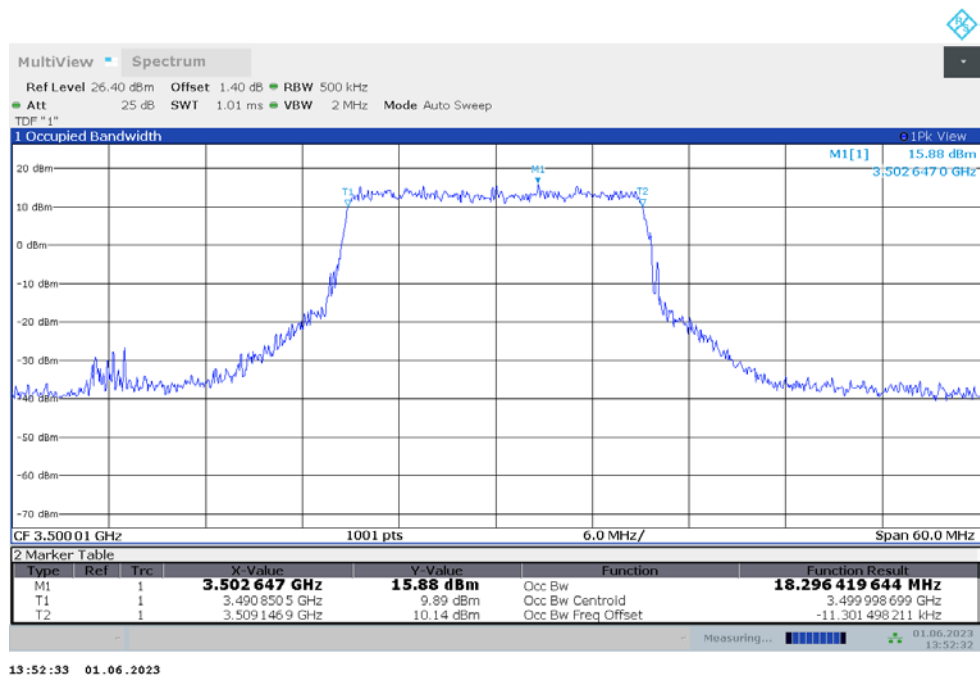
### n77L-MIMO,20MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3500.01         | 18.383                         | 18.296   |

### n77L,20MHz Bandwidth,CP QPSK (99% BW)



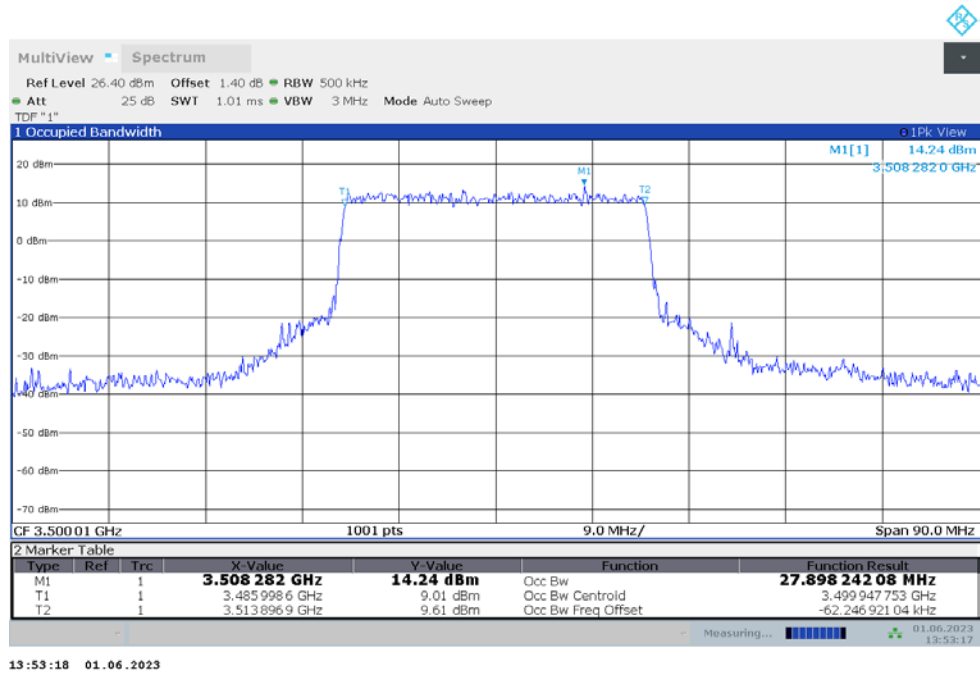
### n77L,20MHz Bandwidth,CP 16QAM (99% BW)



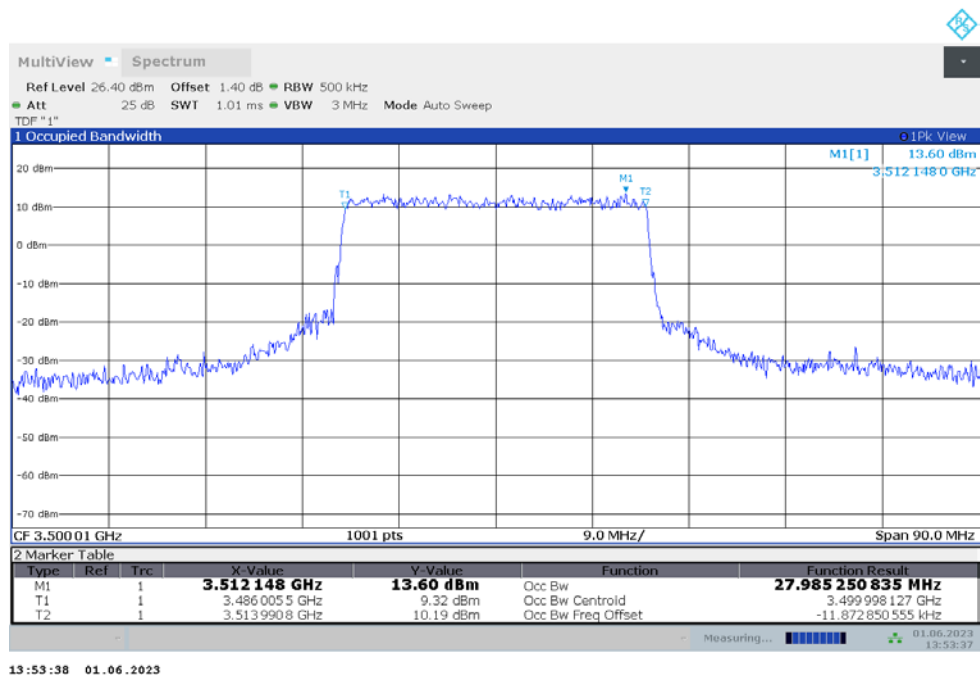
### n77L-MIMO,30MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3500.01         | 27.898                         | 27.985   |

### n77L,30MHz Bandwidth,CP QPSK (99% BW)



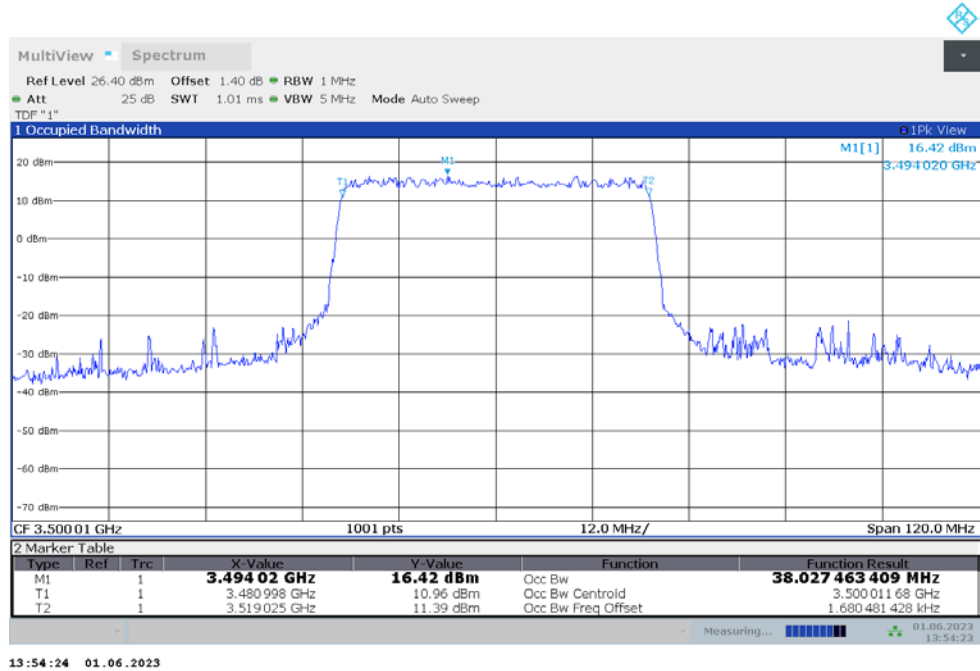
### n77L,30MHz Bandwidth,CP 16QAM (99% BW)



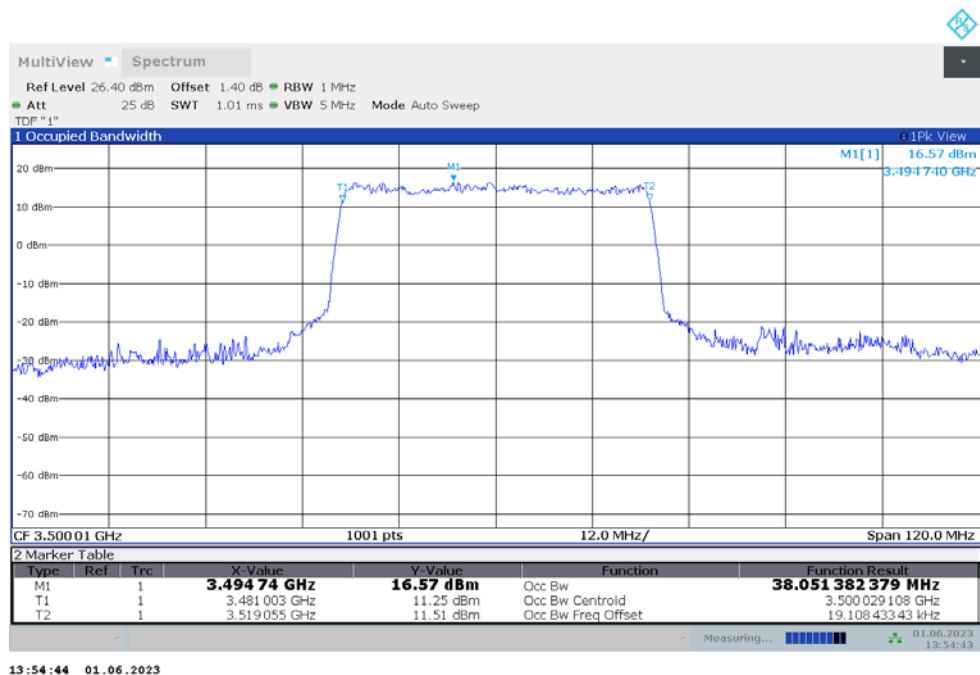
### n77L-MIMO,40MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3500.01         | 38.027                         | 38.051   |

### n77L,40MHz Bandwidth,CP QPSK (99% BW)



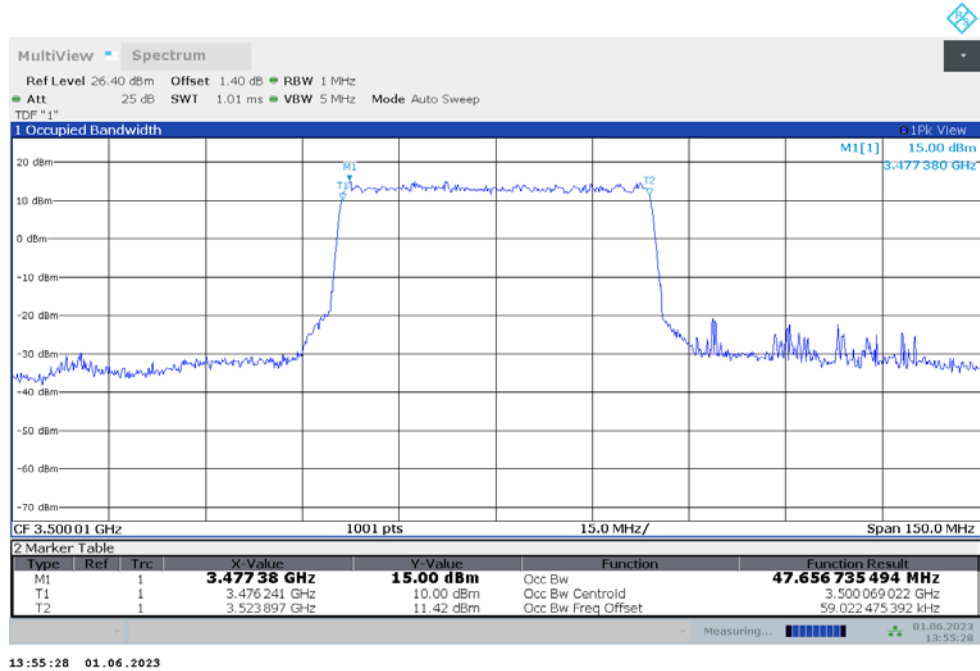
### n77L,40MHz Bandwidth,CP 16QAM (99% BW)



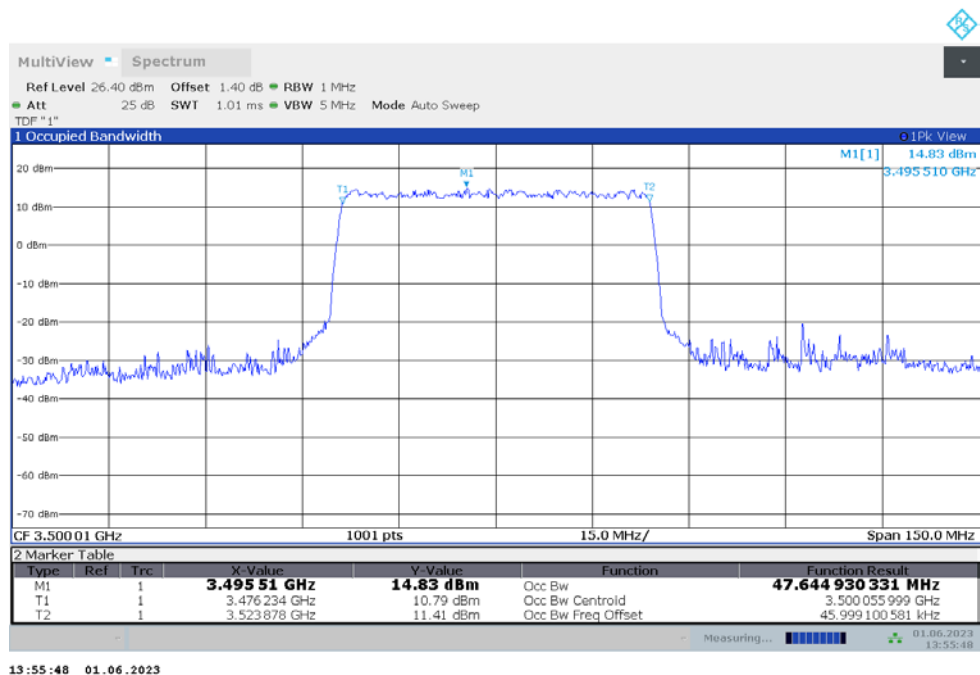
### n77L-MIMO,50MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3500.01         | 47.657                         | 47.645   |

### n77L,50MHz Bandwidth,CP QPSK (99% BW)



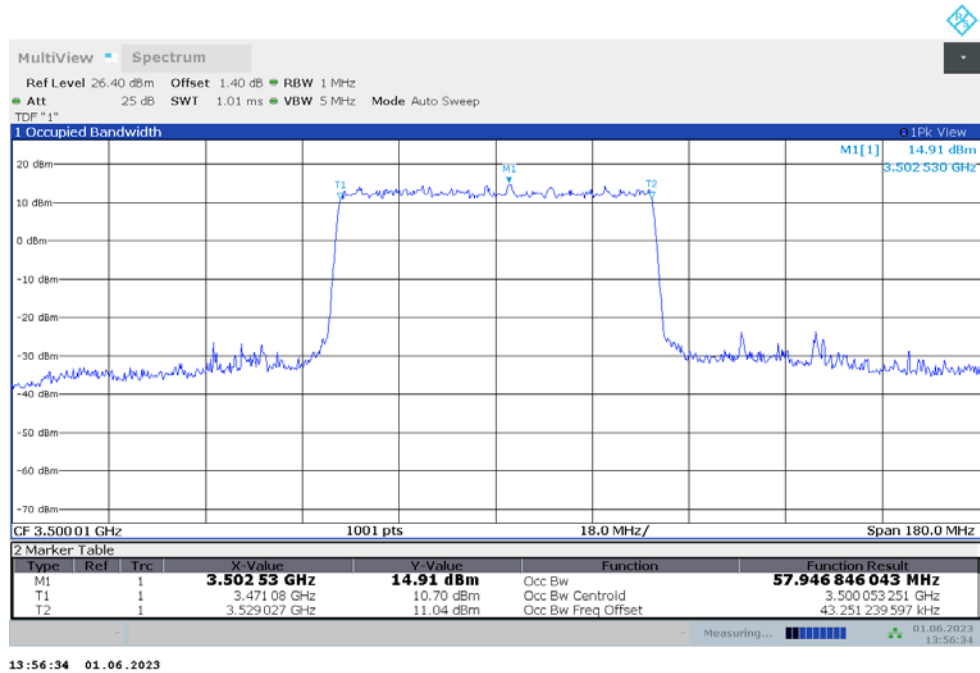
### n77L,50MHz Bandwidth,CP 16QAM (99% BW)



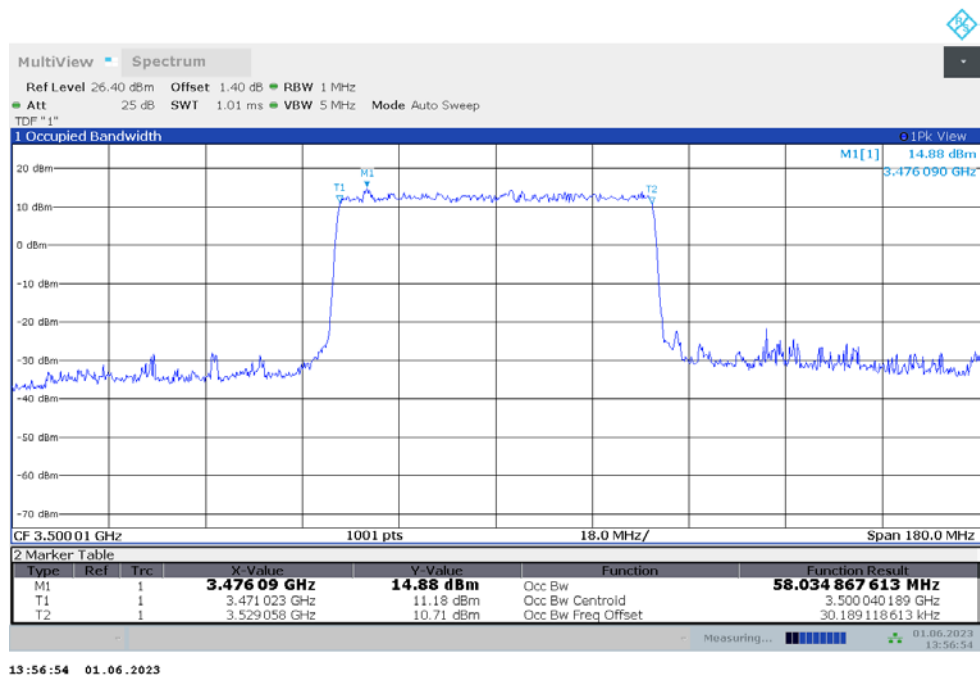
### n77L-MIMO,60MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3500.01         | 57.947                         | 58.035   |

### n77L,60MHz Bandwidth,CP QPSK (99% BW)



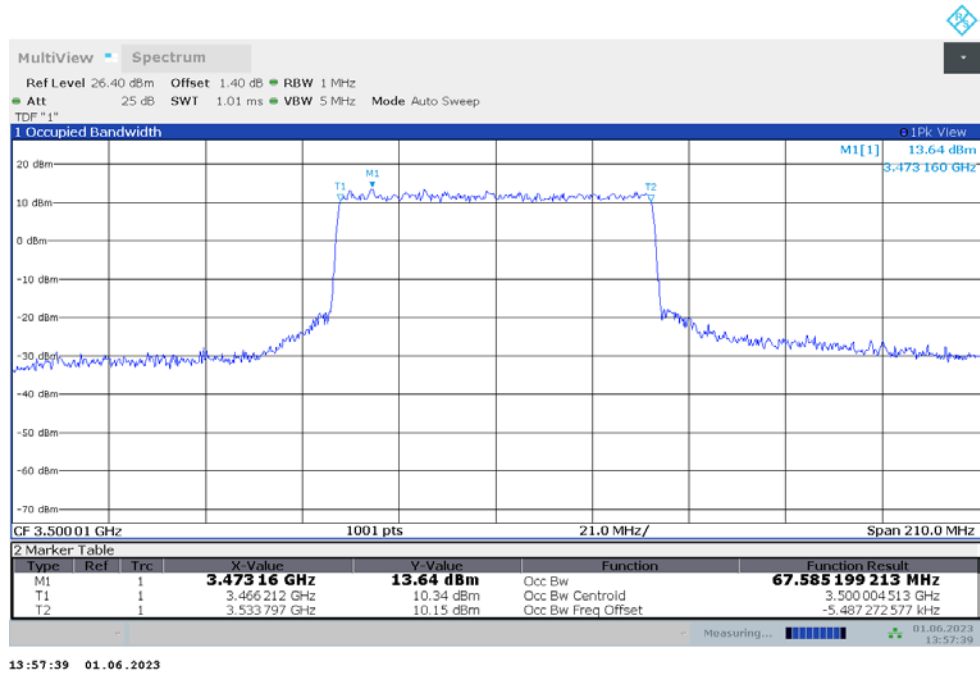
### n77L,60MHz Bandwidth,CP 16QAM (99% BW)



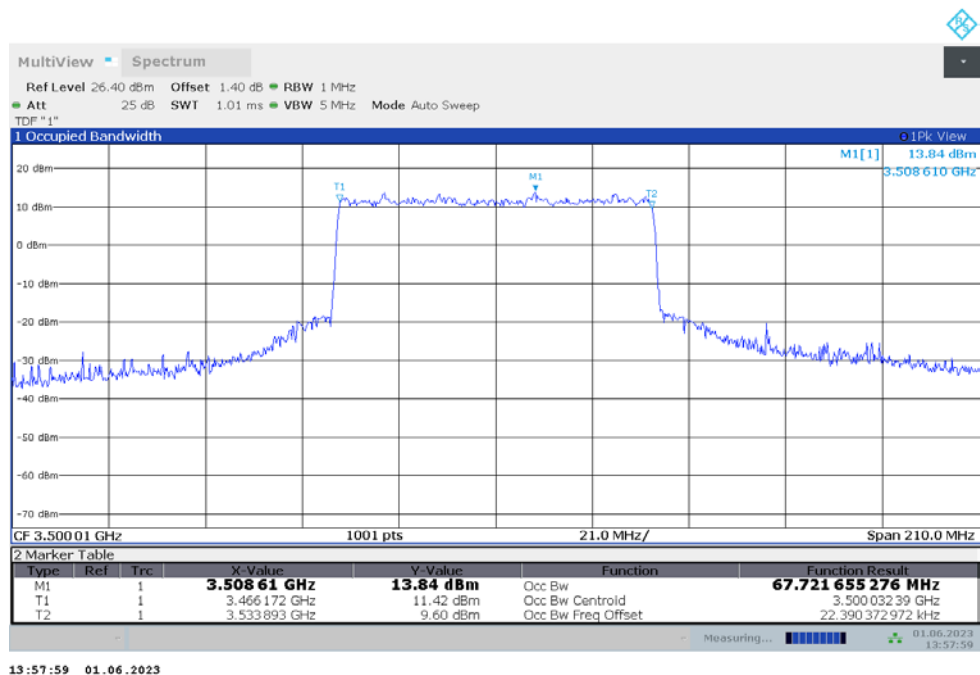
### n77L-MIMO,70MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3500.01         | 67.585                         | 67.722   |

### n77L,70MHz Bandwidth,CP QPSK (99% BW)



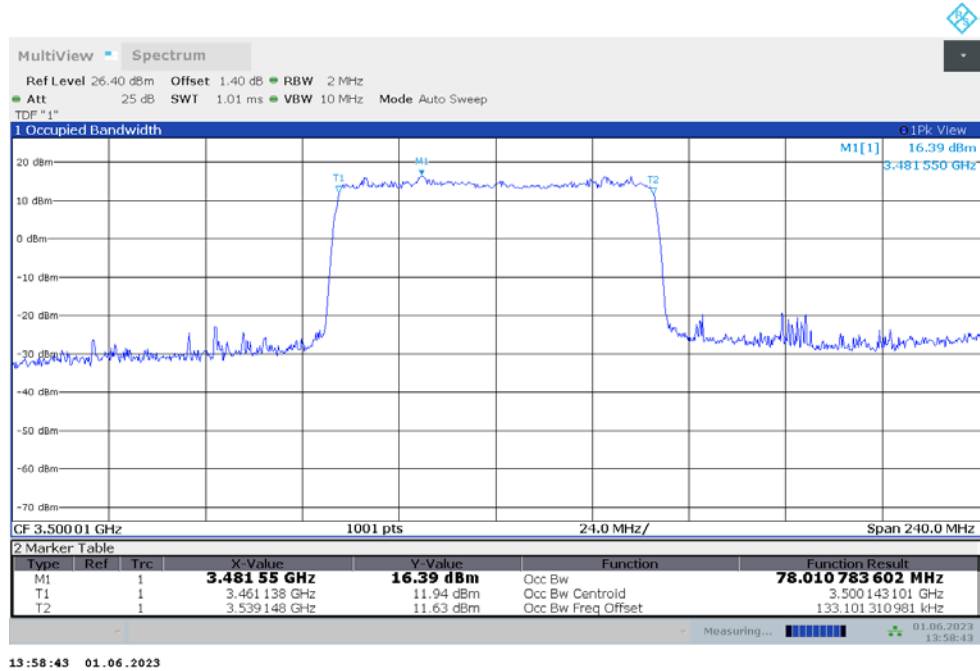
### n77L,70MHz Bandwidth,CP 16QAM (99% BW)



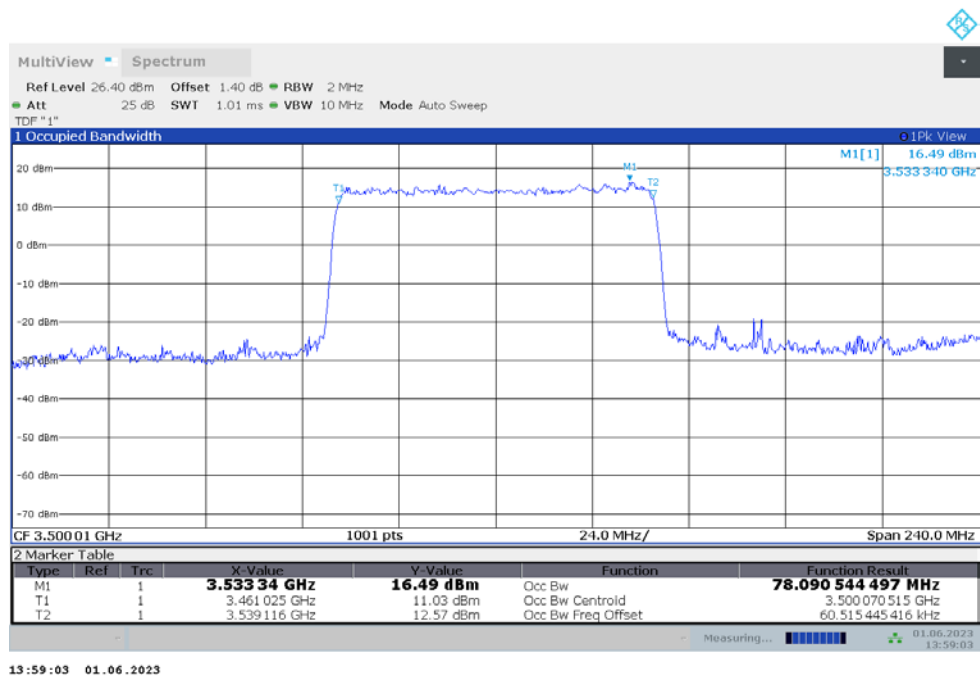
### n77L-MIMO,80MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3500.01         | 78.011                         | 78.091   |

### n77L,80MHz Bandwidth,CP QPSK (99% BW)



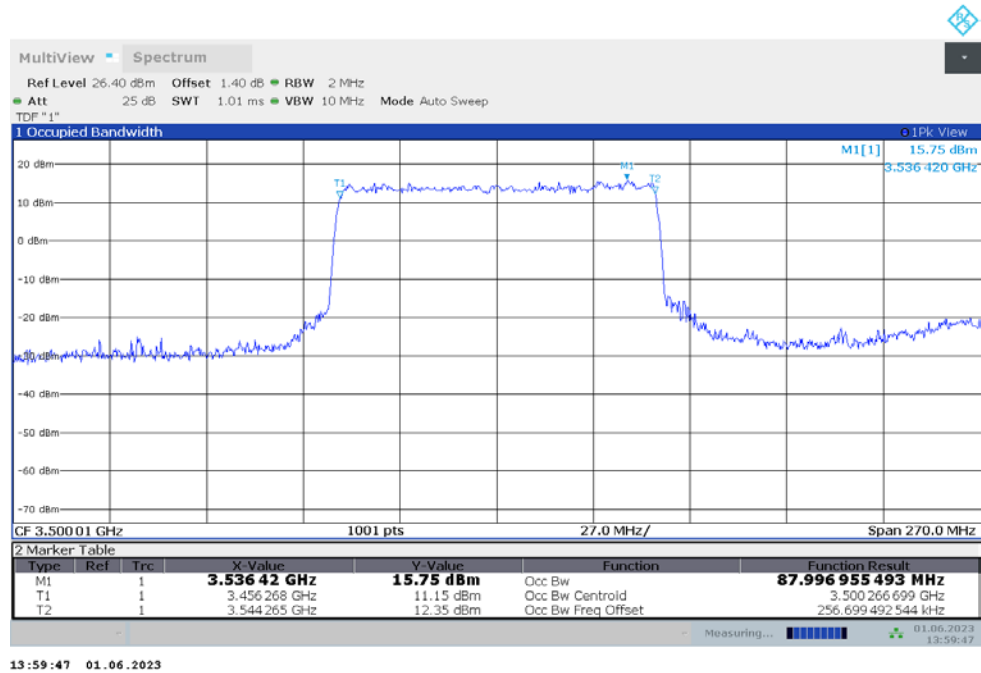
### n77L,80MHz Bandwidth,CP 16QAM (99% BW)



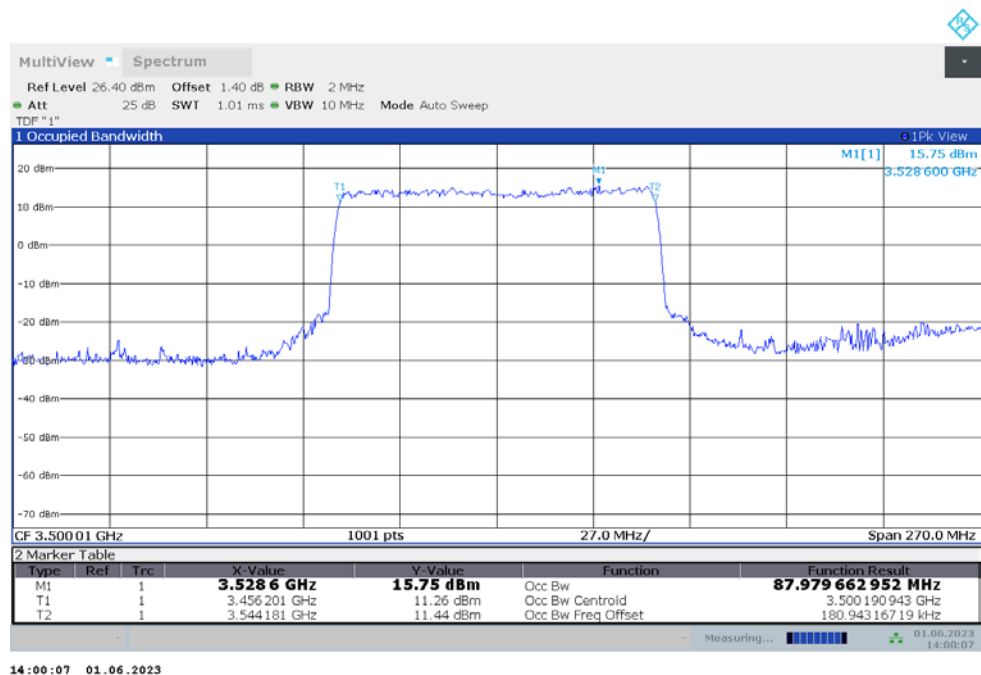
### n77L-MIMO,90MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3500.01         | 87.997                         | 87.980   |

### n77L,90MHz Bandwidth,CP QPSK (99% BW)



### n77L,90MHz Bandwidth,CP 16QAM (99% BW)

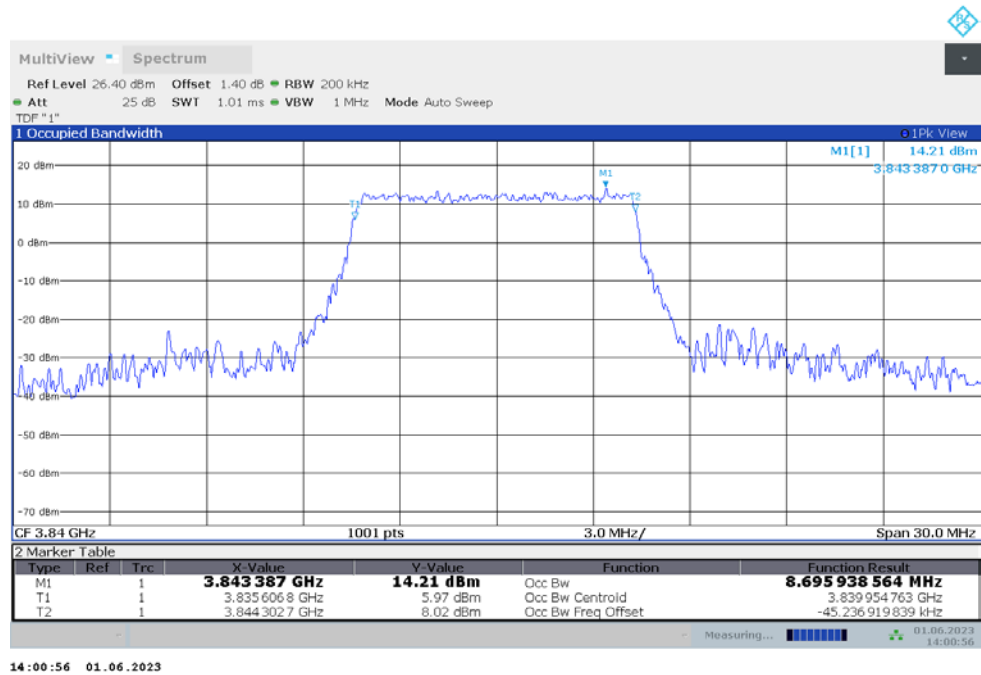


n77H

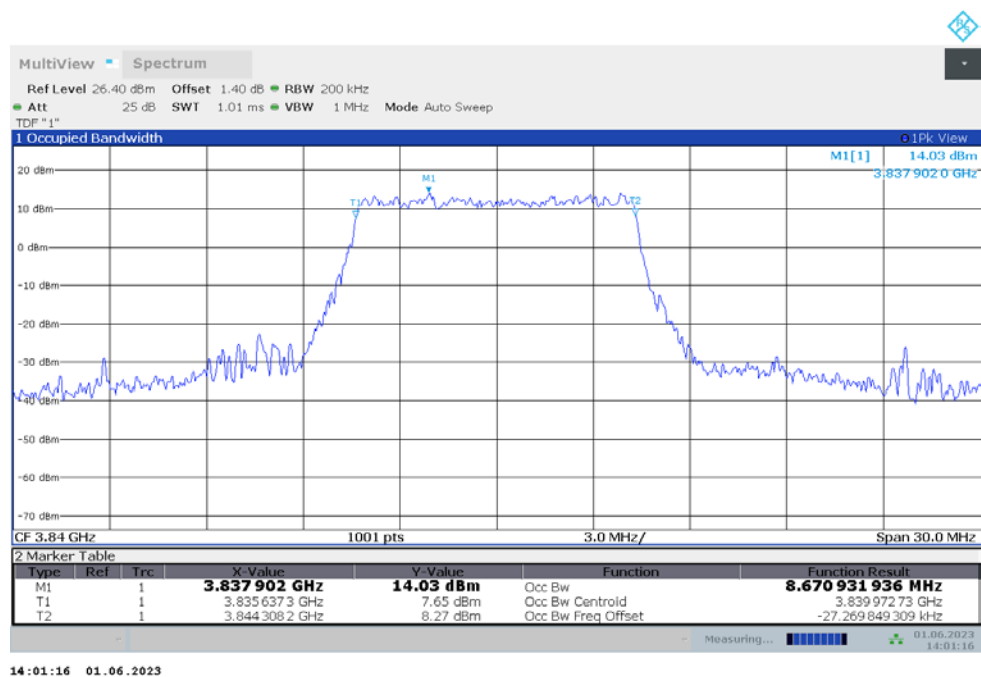
n77H-MIMO,10MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3840            | 8.696                          | 8.671    |

n77H,10MHz Bandwidth,CP QPSK (99% BW)



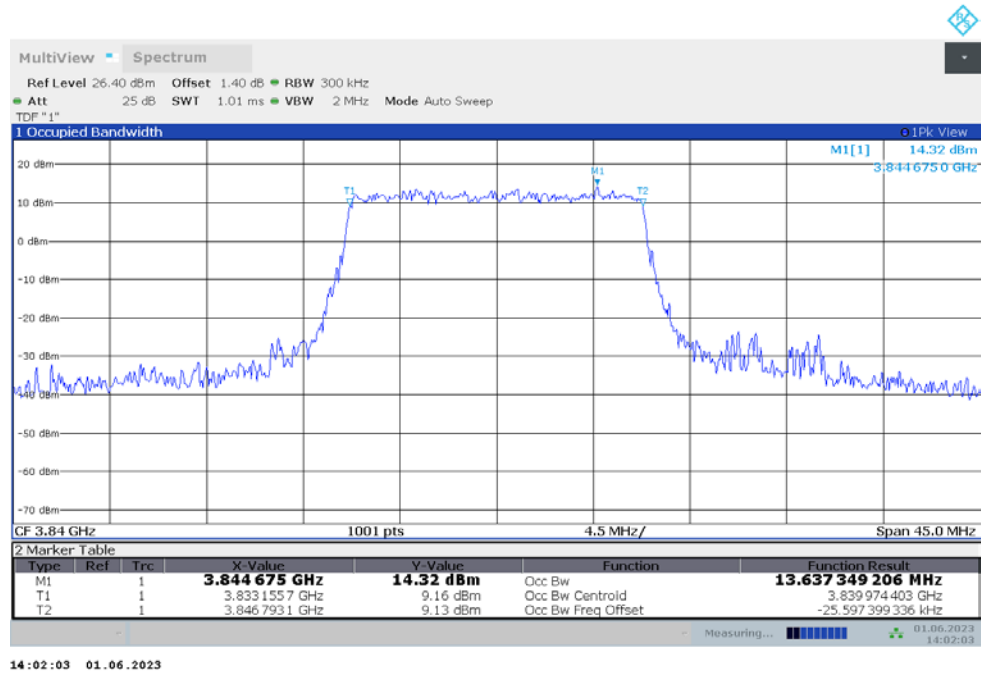
n77H,10MHz Bandwidth,CP 16QAM (99% BW)



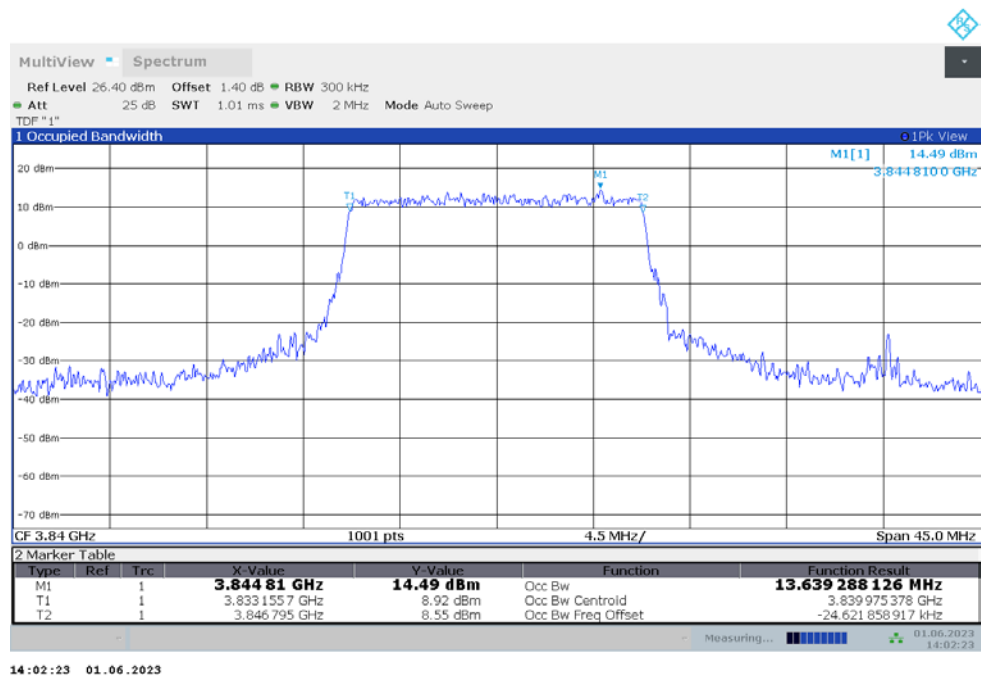
### n77H-MIMO,15MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3840            | 13.637                         | 13.639   |

### n77H,15MHz Bandwidth,CP QPSK (99% BW)



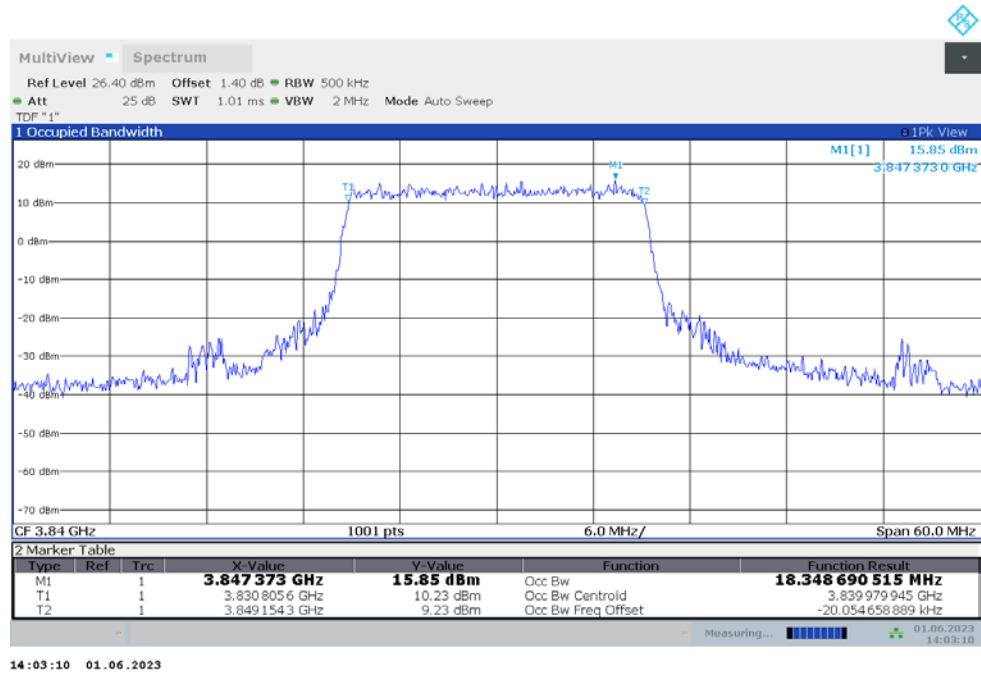
### n77H,15MHz Bandwidth,CP 16QAM (99% BW)



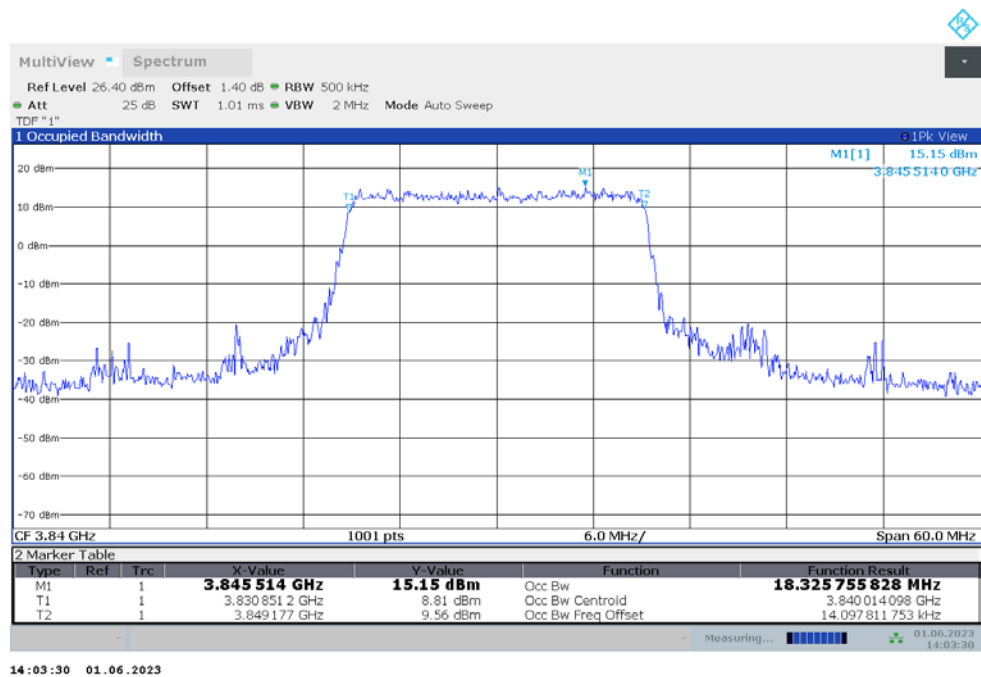
### n77H-MIMO,20MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3840            | 18.349                         | 18.326   |

### n77H,20MHz Bandwidth,CP QPSK (99% BW)



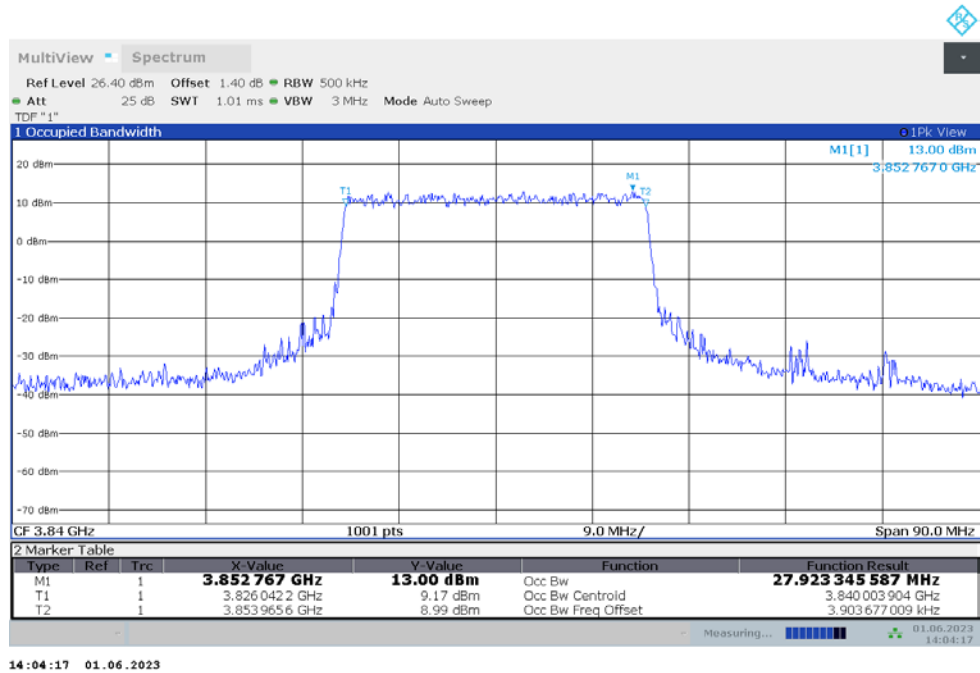
### n77H,20MHz Bandwidth,CP 16QAM (99% BW)



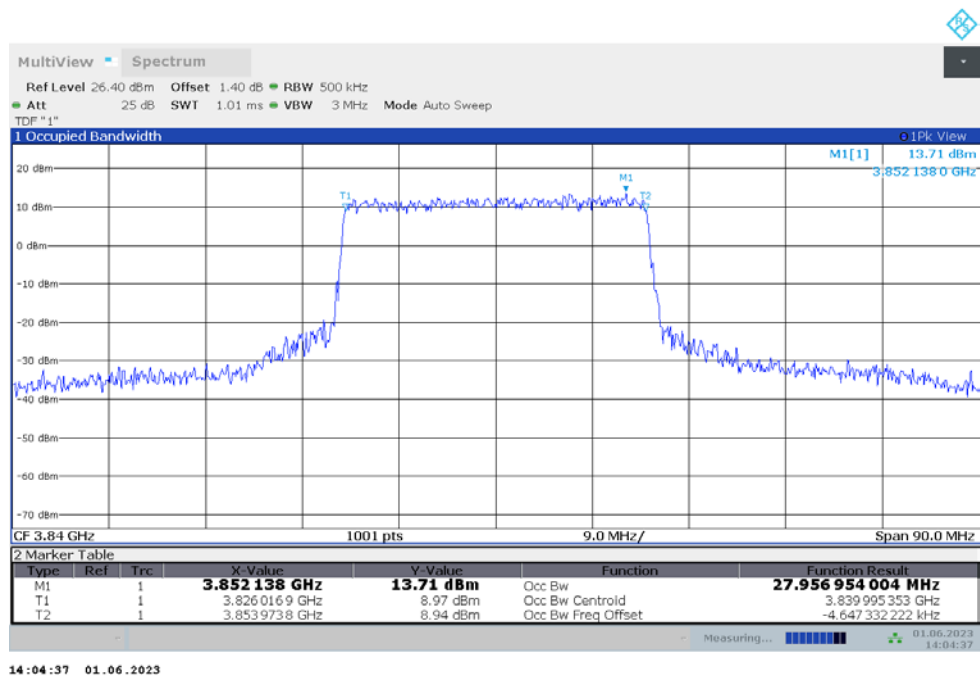
### n77H-MIMO,30MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3840            | 27.923                         | 27.957   |

### n77H,30MHz Bandwidth,CP QPSK (99% BW)



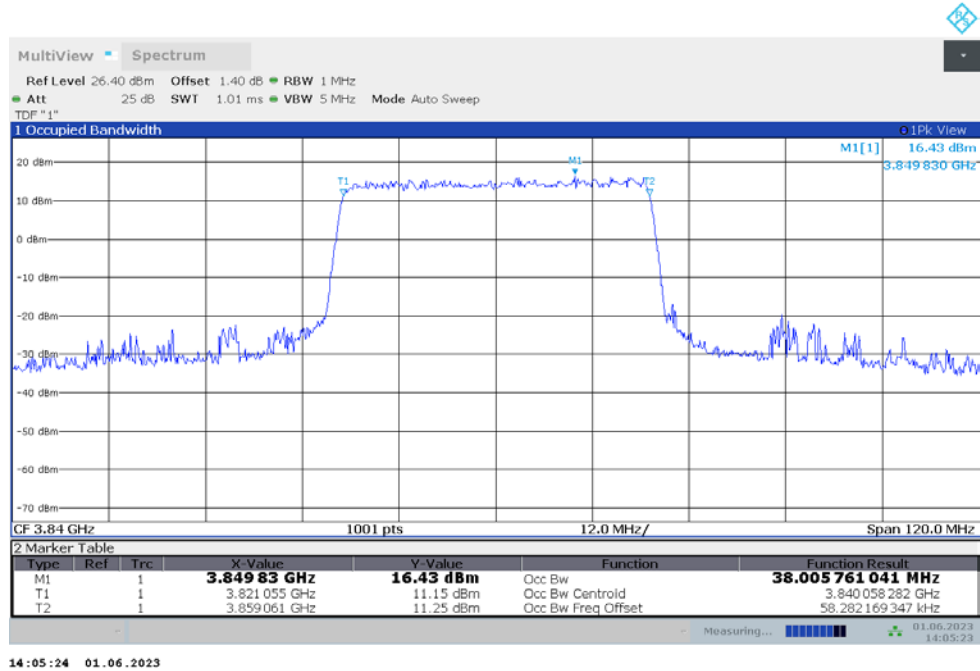
### n77H,30MHz Bandwidth,CP 16QAM (99% BW)



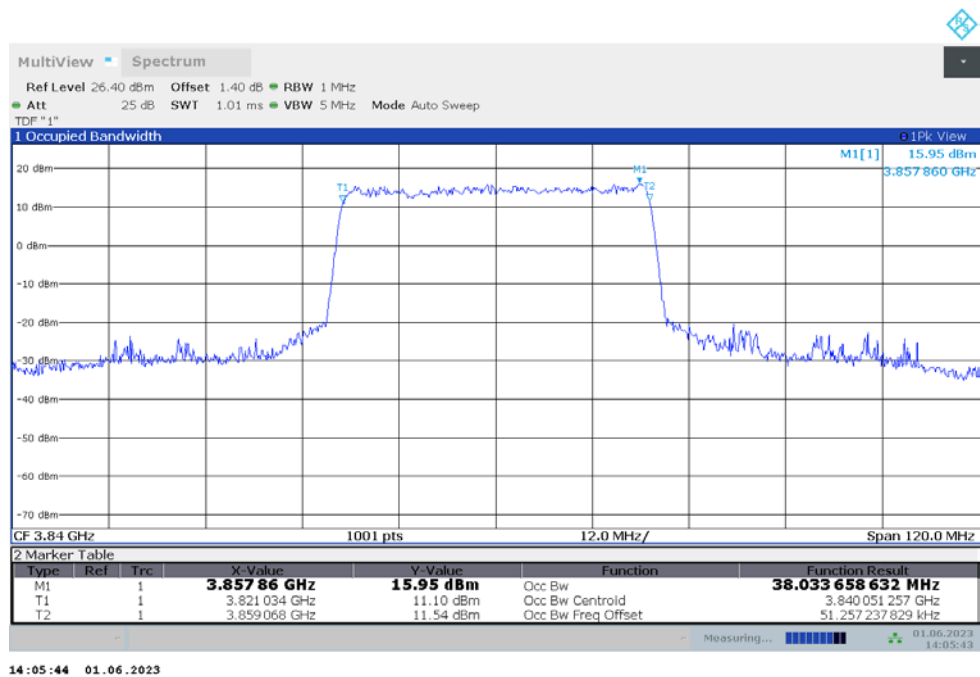
### n77H-MIMO,40MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3840            | 38.006                         | 38.034   |

### n77H,40MHz Bandwidth,CP QPSK (99% BW)



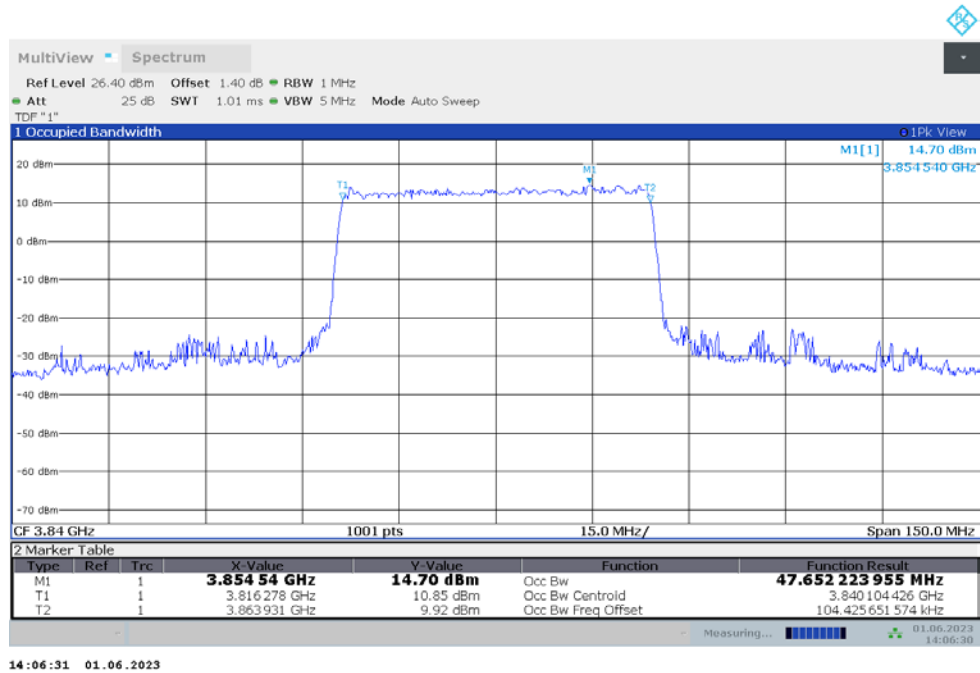
### n77H,40MHz Bandwidth,CP 16QAM (99% BW)



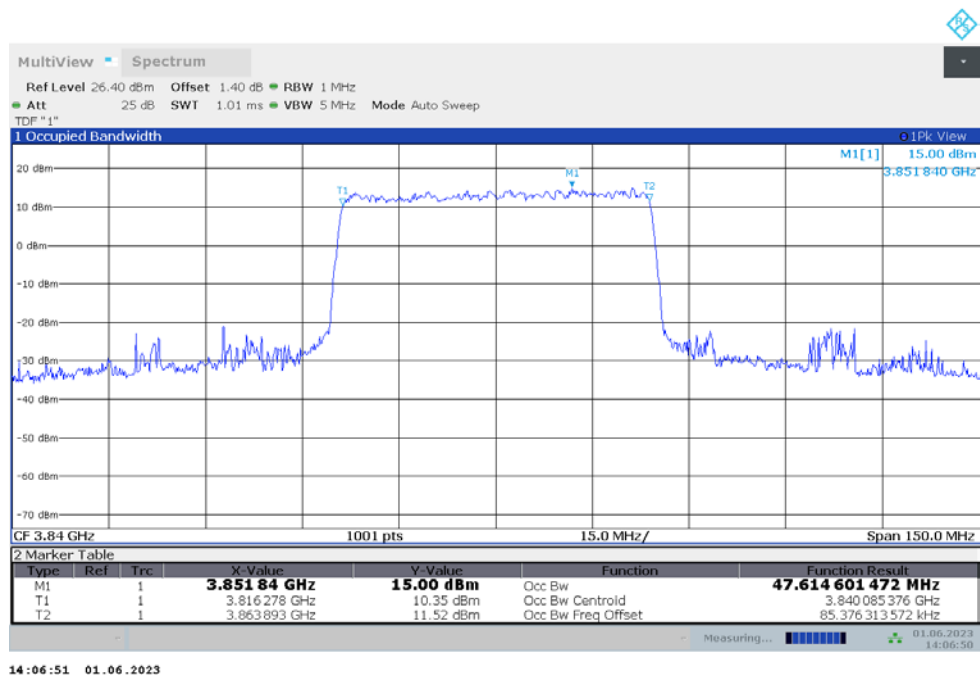
### n77H-MIMO,50MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3840            | 47.652                         | 47.615   |

### n77H,50MHz Bandwidth,CP QPSK (99% BW)



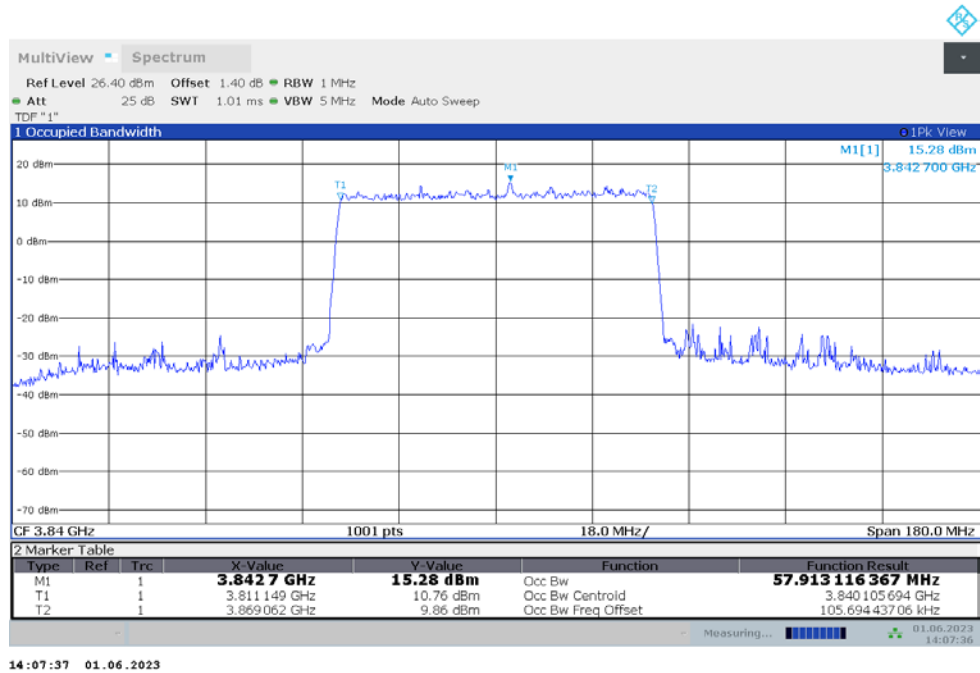
### n77H,50MHz Bandwidth,CP 16QAM (99% BW)



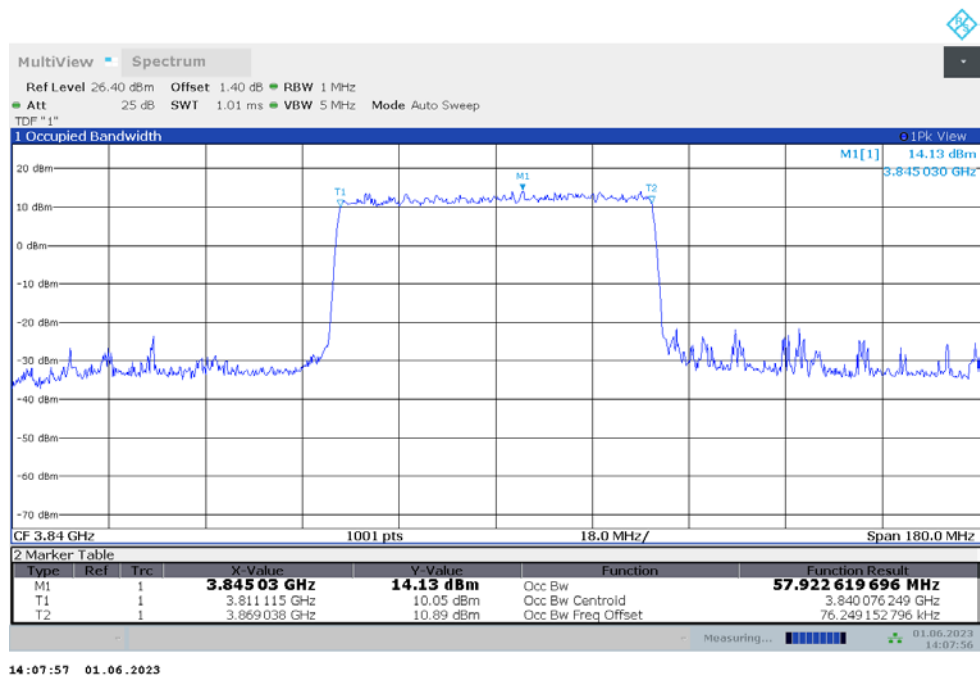
### n77H-MIMO,60MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3840            | 57.913                         | 57.923   |

### n77H,60MHz Bandwidth,CP QPSK (99% BW)



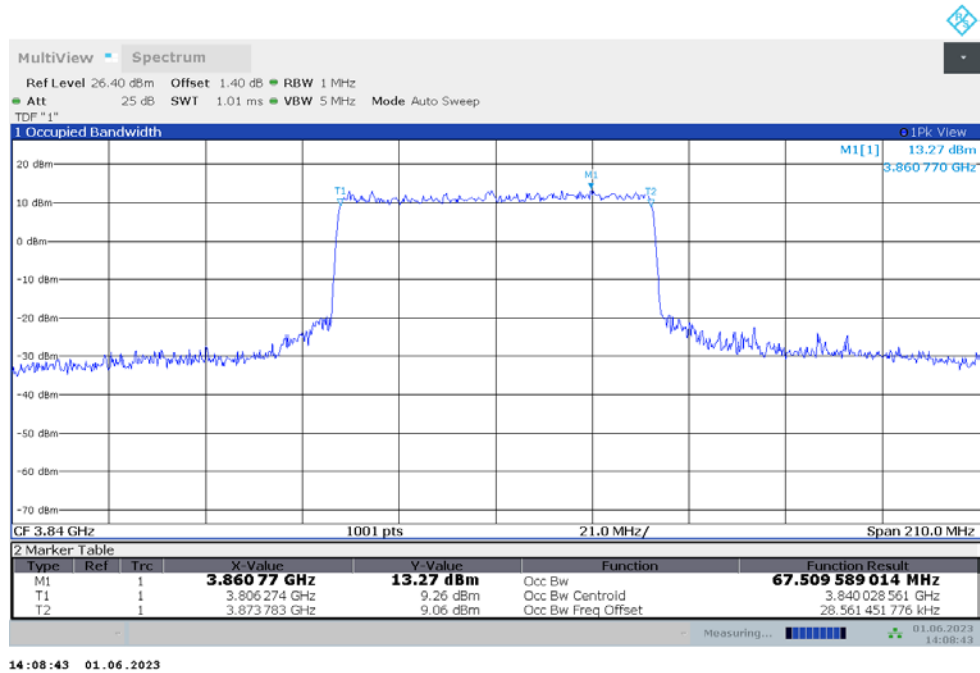
### n77H,60MHz Bandwidth,CP 16QAM (99% BW)



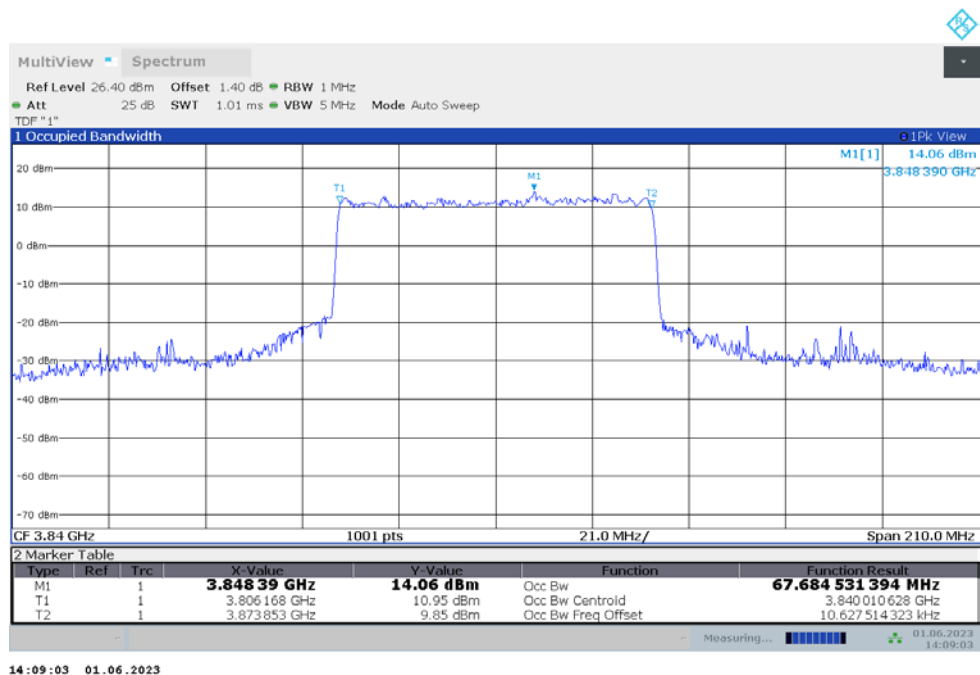
### n77H-MIMO,70MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3840            | 67.510                         | 67.685   |

### n77H,70MHz Bandwidth,CP QPSK (99% BW)



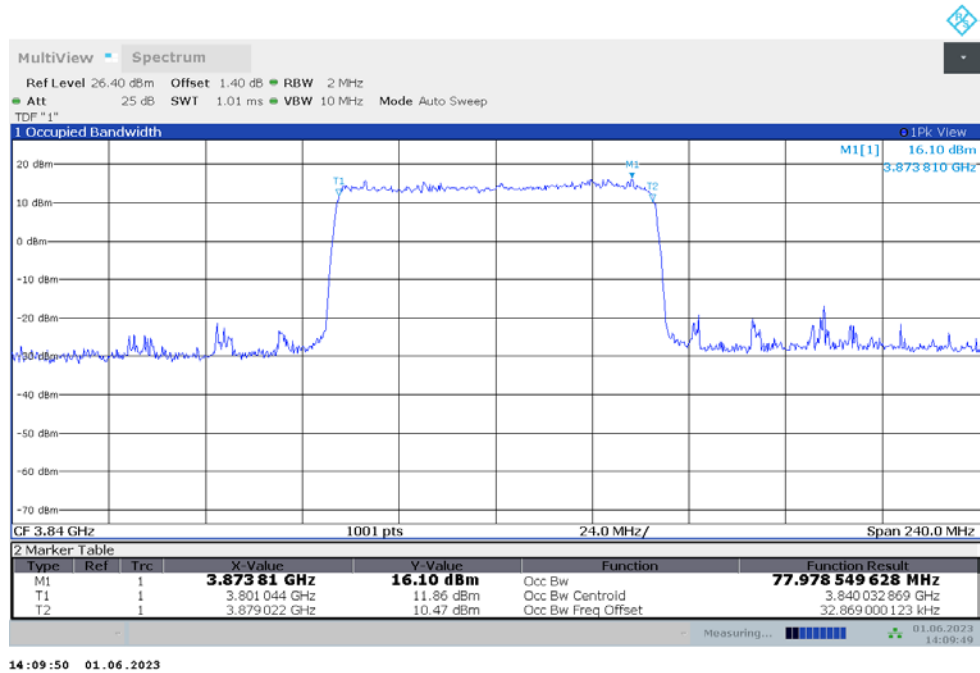
### n77H,70MHz Bandwidth,CP 16QAM (99% BW)



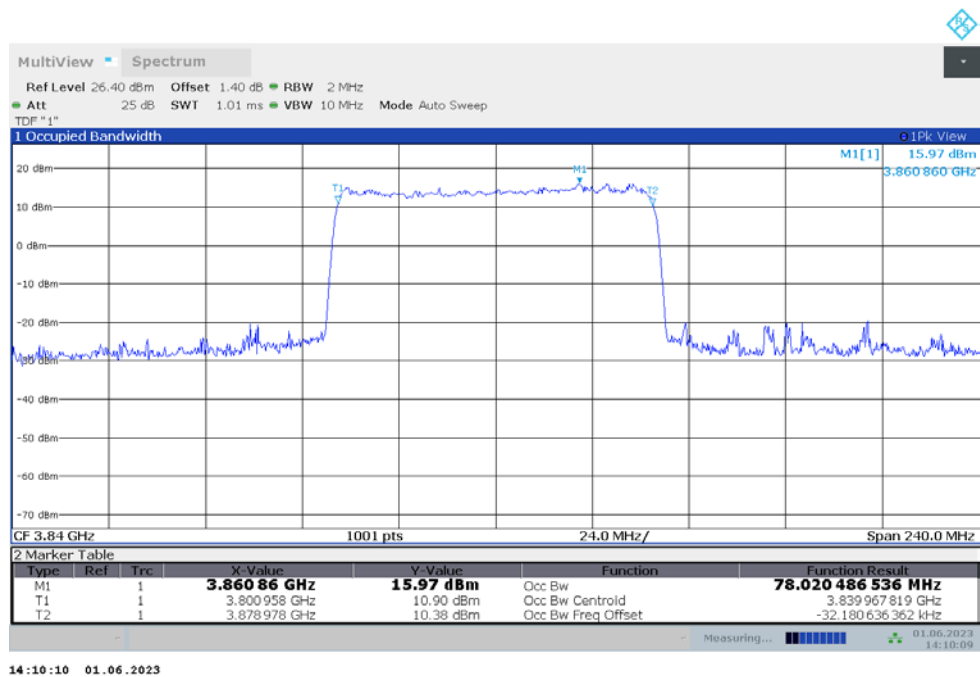
### n77H-MIMO,80MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3840            | 77.979                         | 78.020   |

### n77H,80MHz Bandwidth,CP QPSK (99% BW)



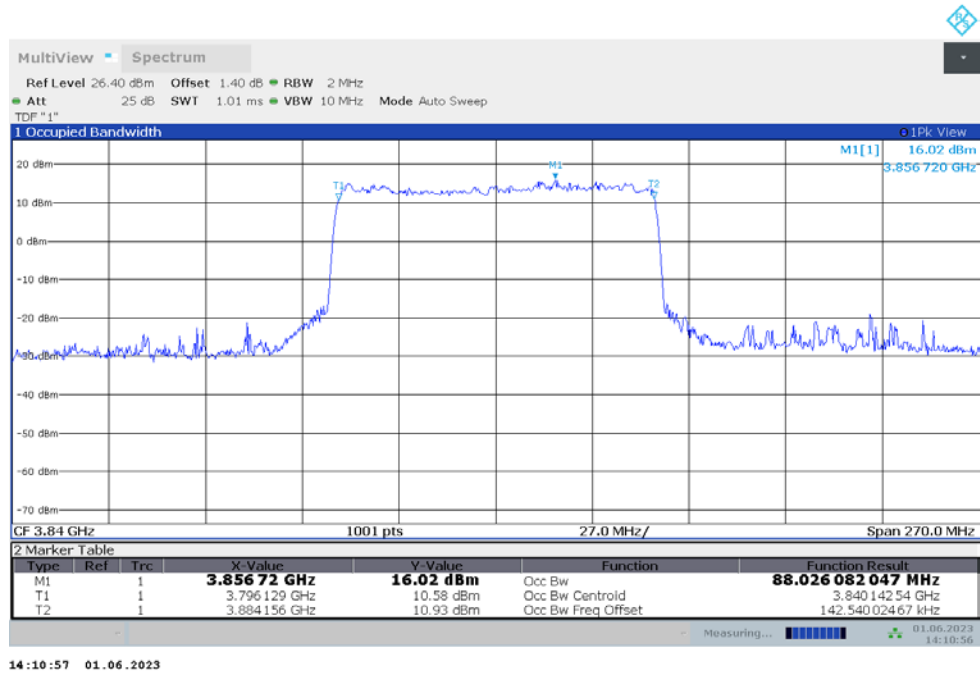
### n77H,80MHz Bandwidth,CP 16QAM (99% BW)



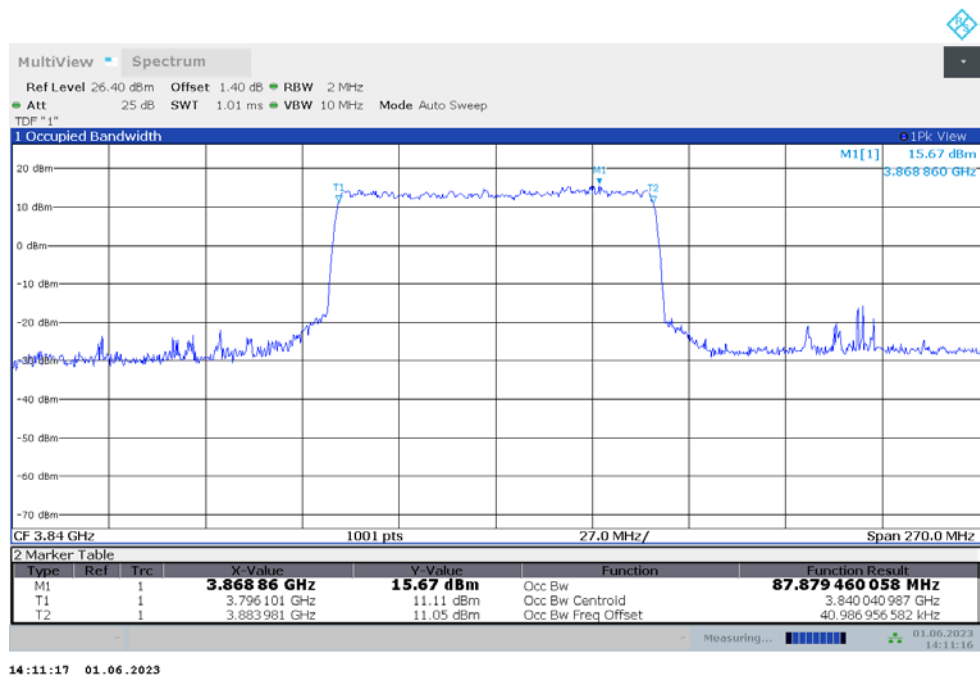
### n77H-MIMO,90MHz(99%)

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3840            | 88.026                         | 87.879   |

### n77H,90MHz Bandwidth,CP QPSK (99% BW)

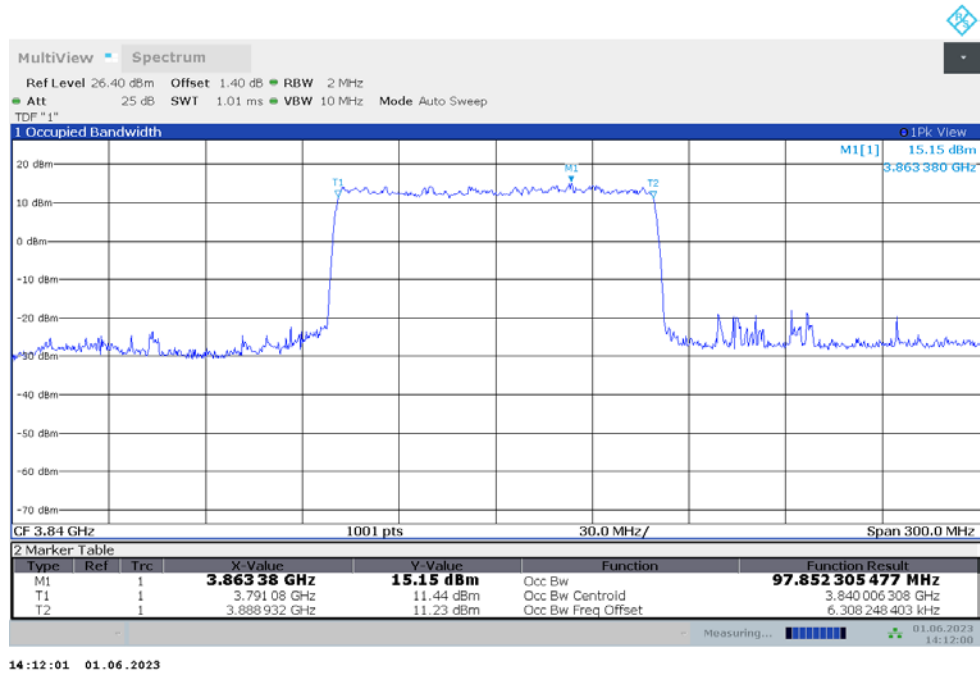
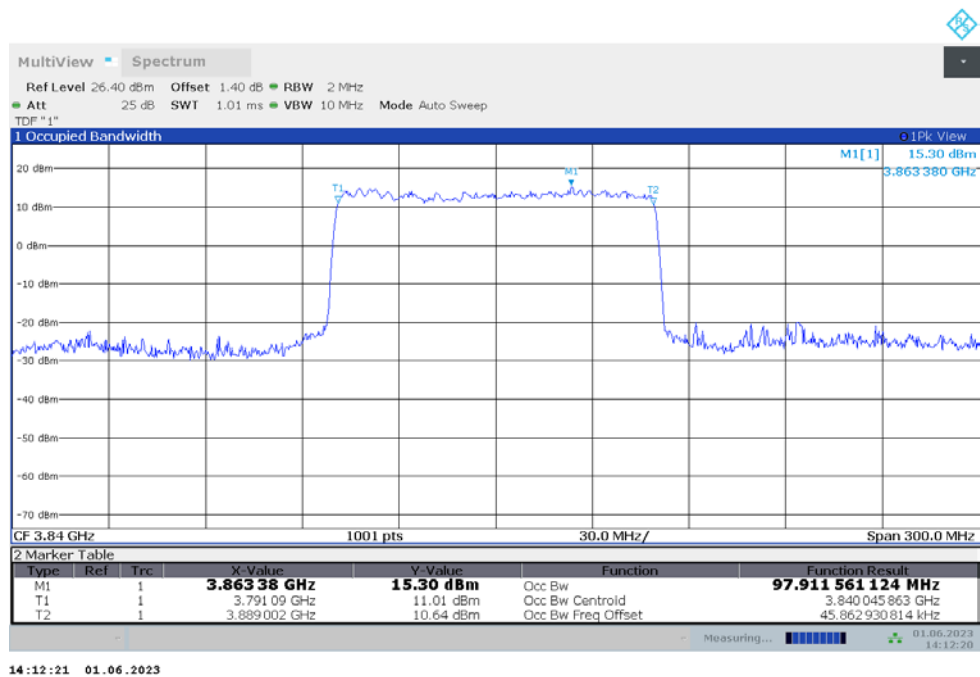


### n77H,90MHz Bandwidth,CP 16QAM (99% BW)



**n77H-MIMO,100MHz(99%)**

| Frequency (MHz) | Occupied Bandwidth (99%) (MHz) |          |
|-----------------|--------------------------------|----------|
|                 | CP QPSK                        | CP 16QAM |
| 3840            | 97.852                         | 97.912   |

**n77H,100MHz Bandwidth,CP QPSK (99% BW)**

**n77H,100MHz Bandwidth,CP 16QAM (99% BW)**


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

## **A.5 Emission Bandwidth**

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. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

The measurement method is from ANSI C63.26:

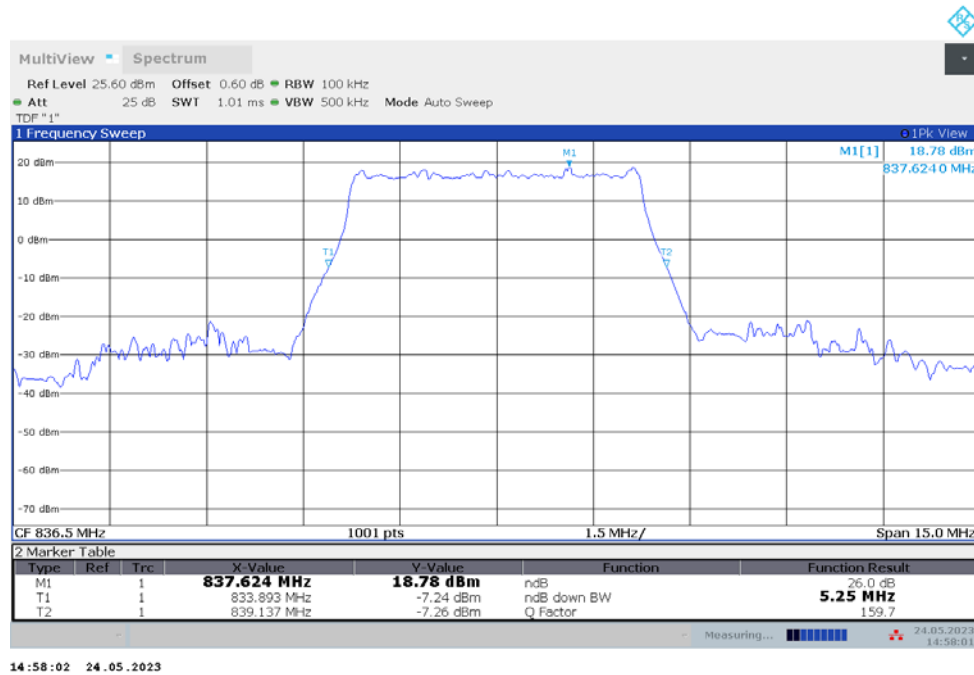
- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be wide enough to see sufficient roll off of the signal to make the measurement.
- b) The nominal RBW shall be in the range of 1% to 5% of the anticipated OBW, and the VBW shall be set  $\geq 3 \times \text{RBW}$ .
- c) Set the reference level of the instrument as required to prevent the signal amplitude from exceeding the maximum spectrum analyzer input mixer level for linear operation.
- d) The dynamic range of the spectrum analyzer at the selected RBW shall be more than 10 dB below the target “-X dB” requirement, i.e., if the requirement calls for measuring the -26 dB OBW, the spectrum analyzer noise floor at the selected RBW shall be at least 36 dB below the reference level.
- e) Set spectrum analyzer detection mode to peak, and the trace mode to max hold.

n5

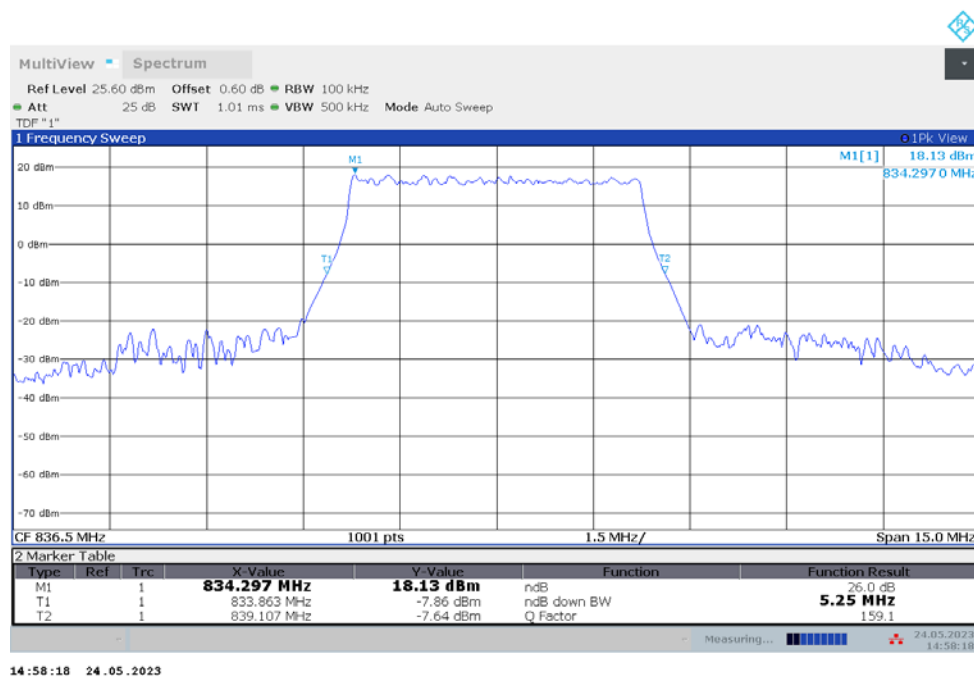
n5,5MHz(-26dBc)

| Frequency (MHz) | Emission Bandwidth (-26dBc) (MHz) |            |
|-----------------|-----------------------------------|------------|
|                 | DFT-s-pi/2 BPSK                   | DFT-s-QPSK |
| 836.5           | 5.245                             | 5.245      |

n5,5MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n5,5MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

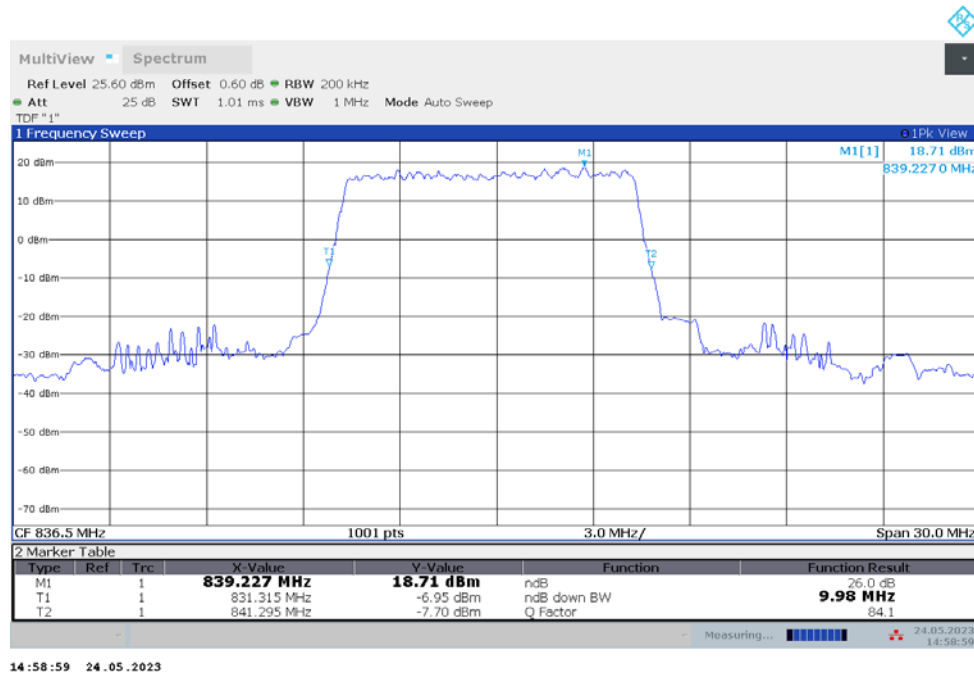


n5

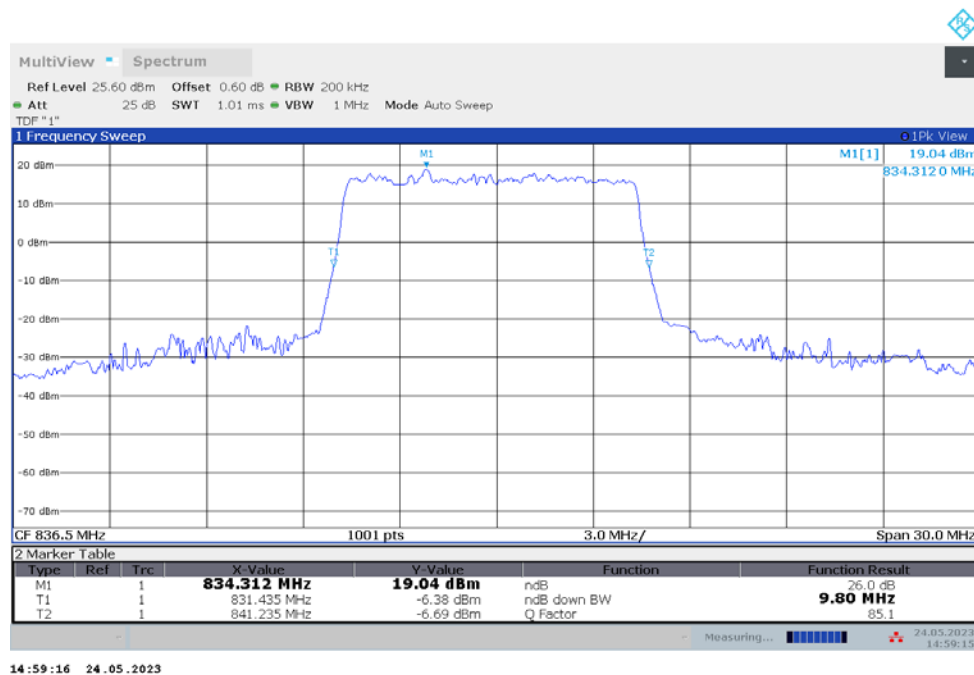
n5,10MHz(-26dBc)

| Frequency (MHz) | Emission Bandwidth (-26dBc) (MHz) |            |
|-----------------|-----------------------------------|------------|
|                 | DFT-s-pi/2 BPSK                   | DFT-s-QPSK |
| 836.5           | 9.980                             | 9.800      |

n5,10MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n5,10MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

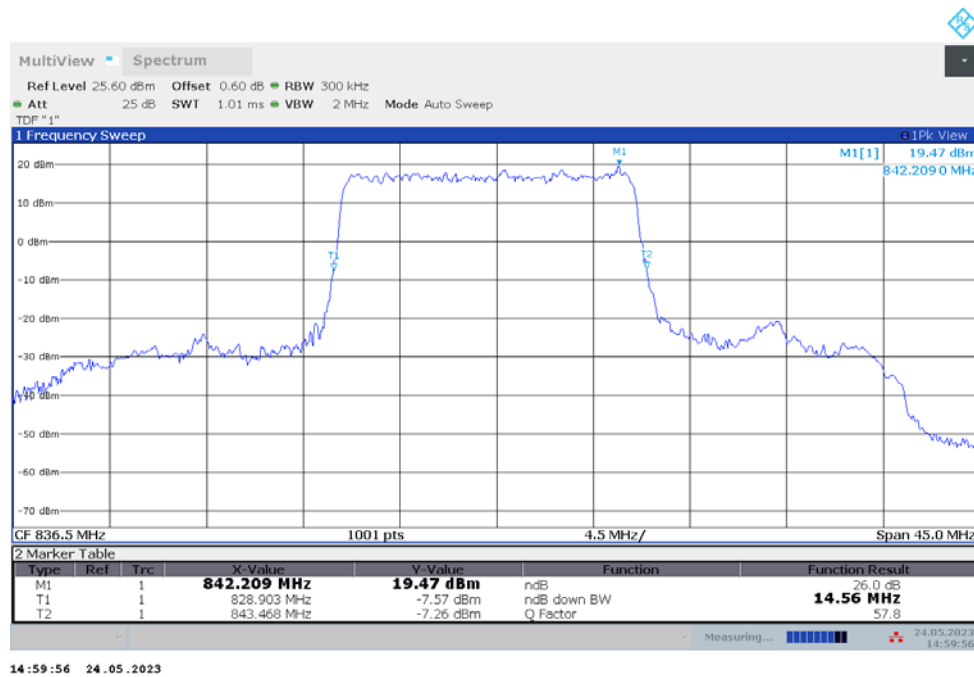


n5

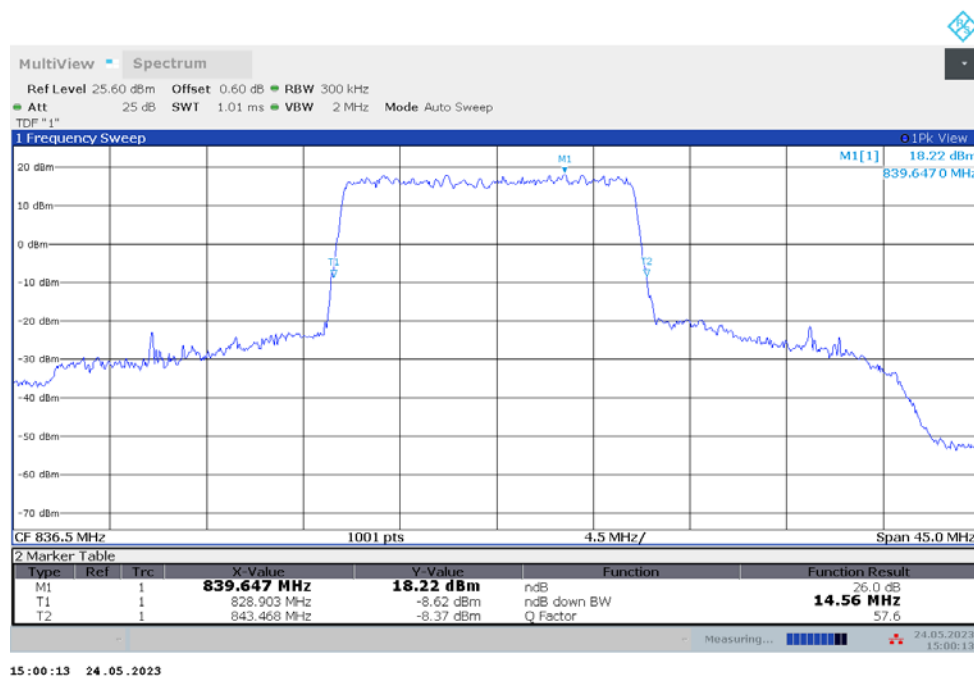
n5,15MHz(-26dBc)

| Frequency (MHz) | Emission Bandwidth (-26dBc) (MHz) |            |
|-----------------|-----------------------------------|------------|
|                 | DFT-s-pi/2 BPSK                   | DFT-s-QPSK |
| 836.5           | 14.565                            | 14.565     |

n5,15MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n5,15MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

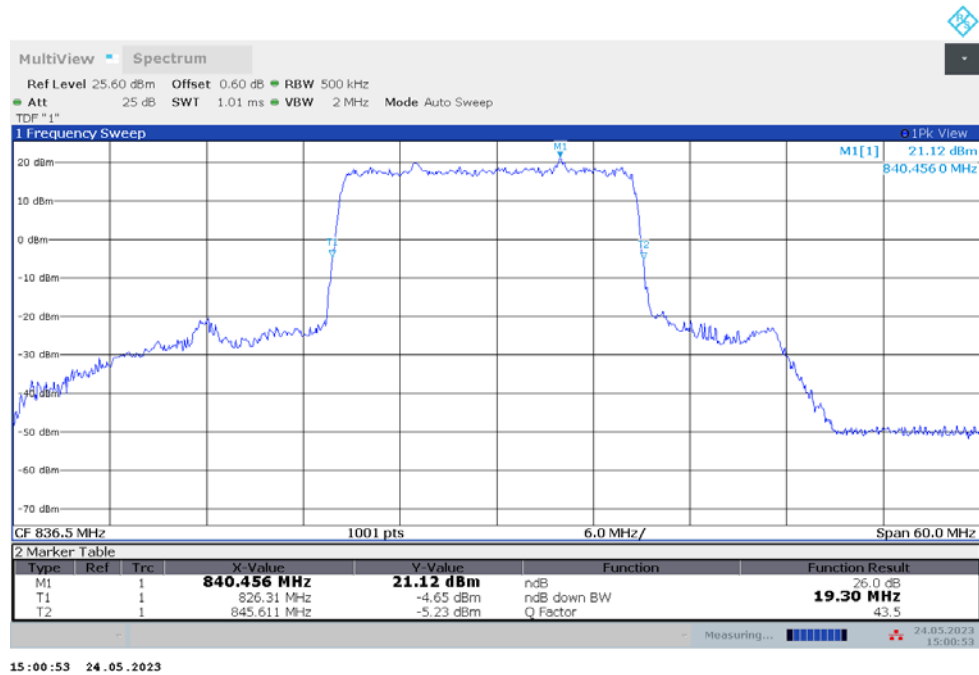


n5

n5,20MHz(-26dBc)

| Frequency (MHz) | Emission Bandwidth (-26dBc) (MHz) |            |
|-----------------|-----------------------------------|------------|
|                 | DFT-s-pi/2 BPSK                   | DFT-s-QPSK |
| 836.5           | 19.301                            | 19.181     |

n5,20MHz Bandwidth,DFT-s-pi/2 BPSK (-26dBc BW)



n5,20MHz Bandwidth,DFT-s-QPSK (-26dBc BW)

