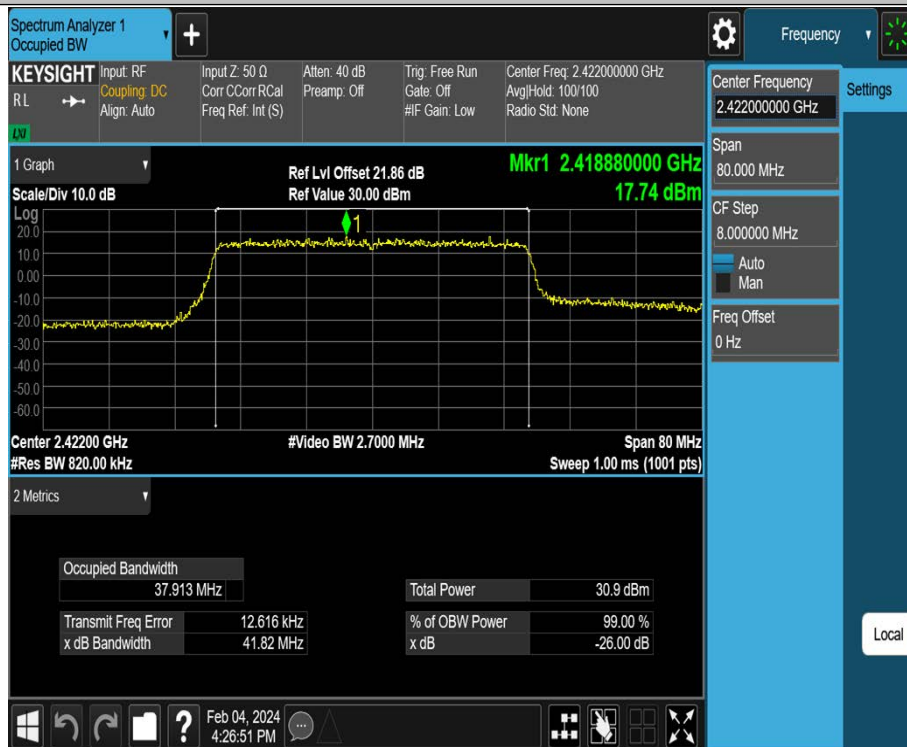


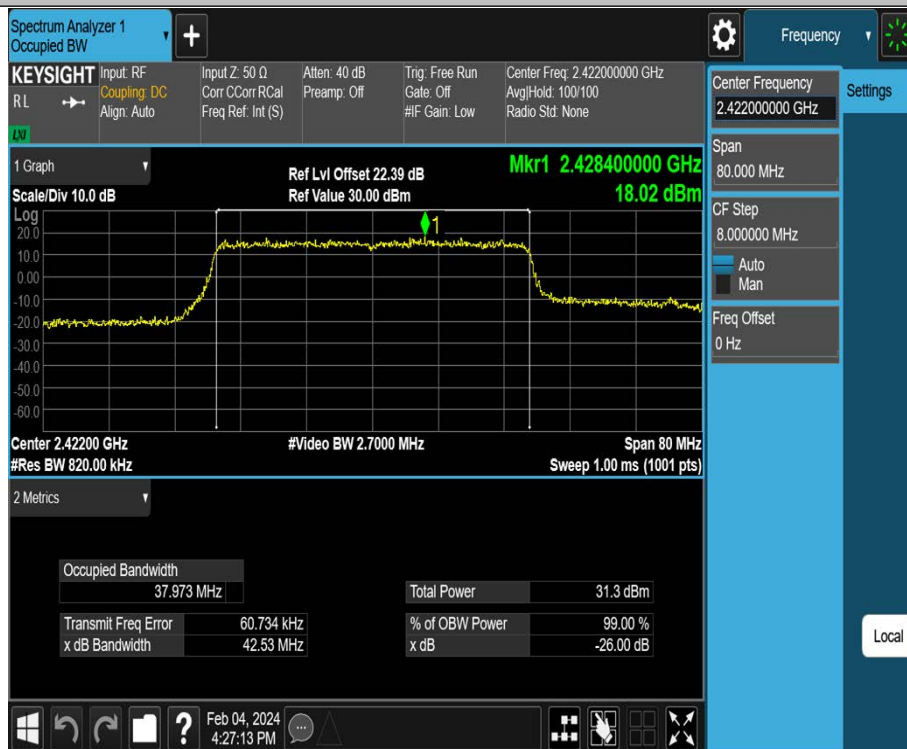
### 11AX40MIMO\_Ant1\_2422



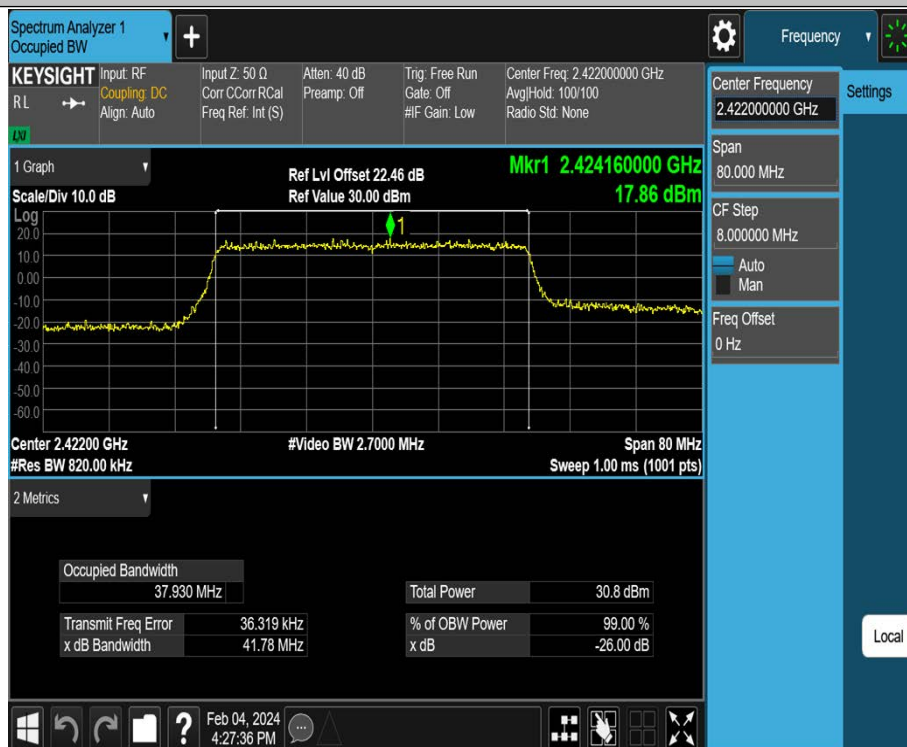
### 11AX40MIMO\_Ant2\_2422



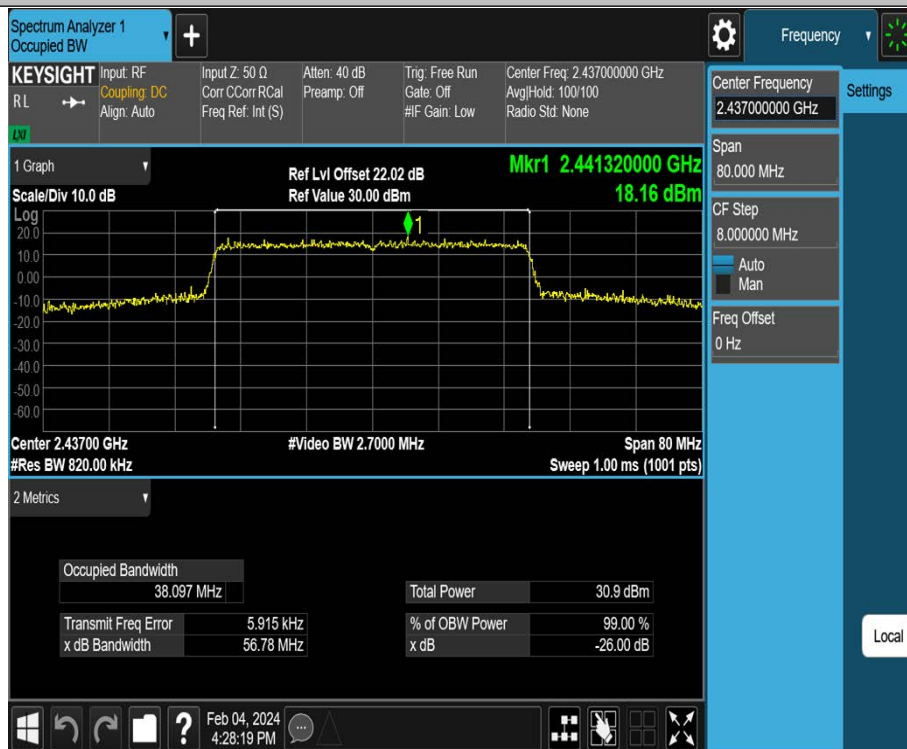
### 11AX40MIMO\_Ant3\_2422



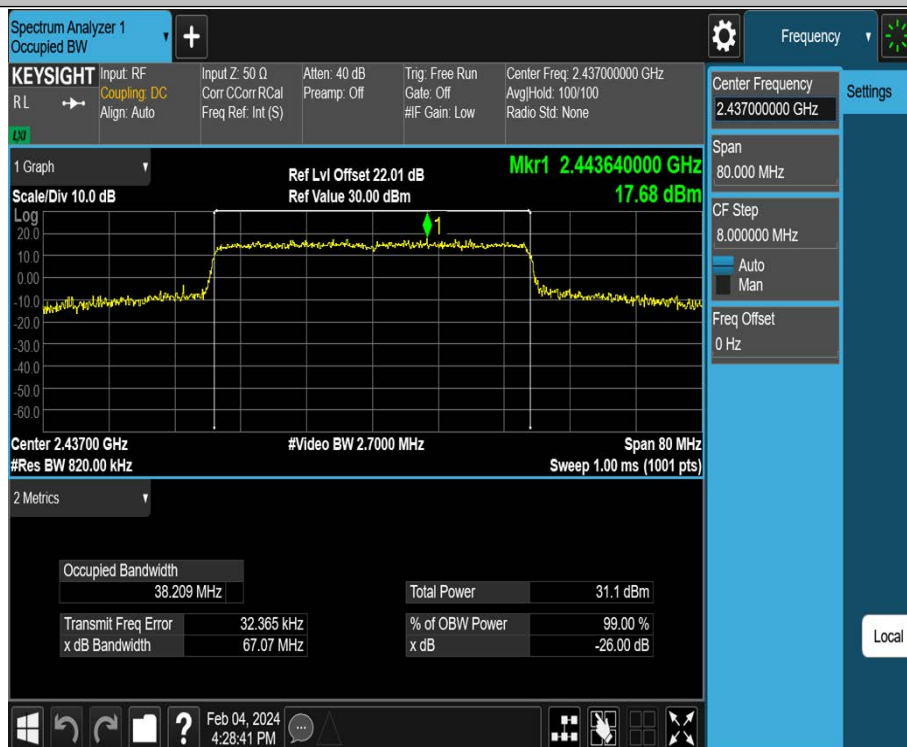
### 11AX40MIMO\_Ant4\_2422



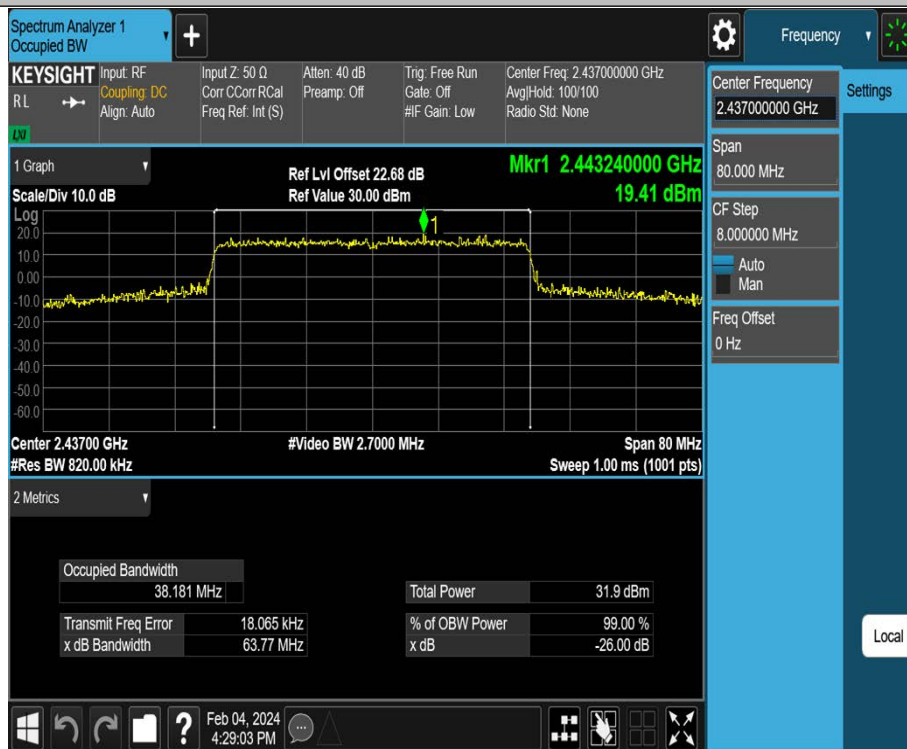
### 11AX40MIMO\_Ant1\_2437



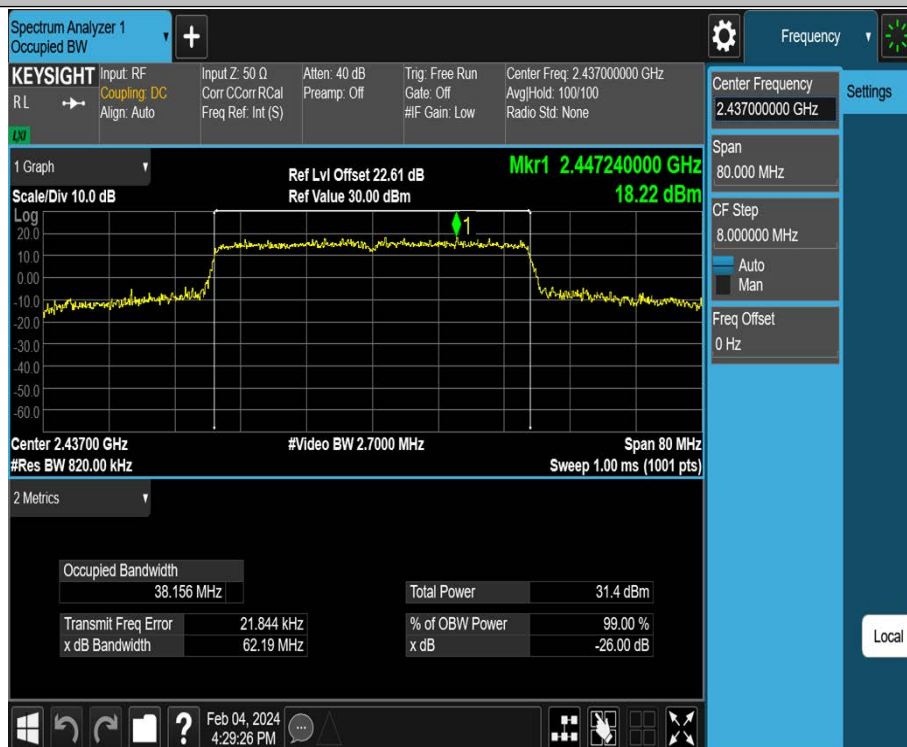
### 11AX40MIMO\_Ant2\_2437



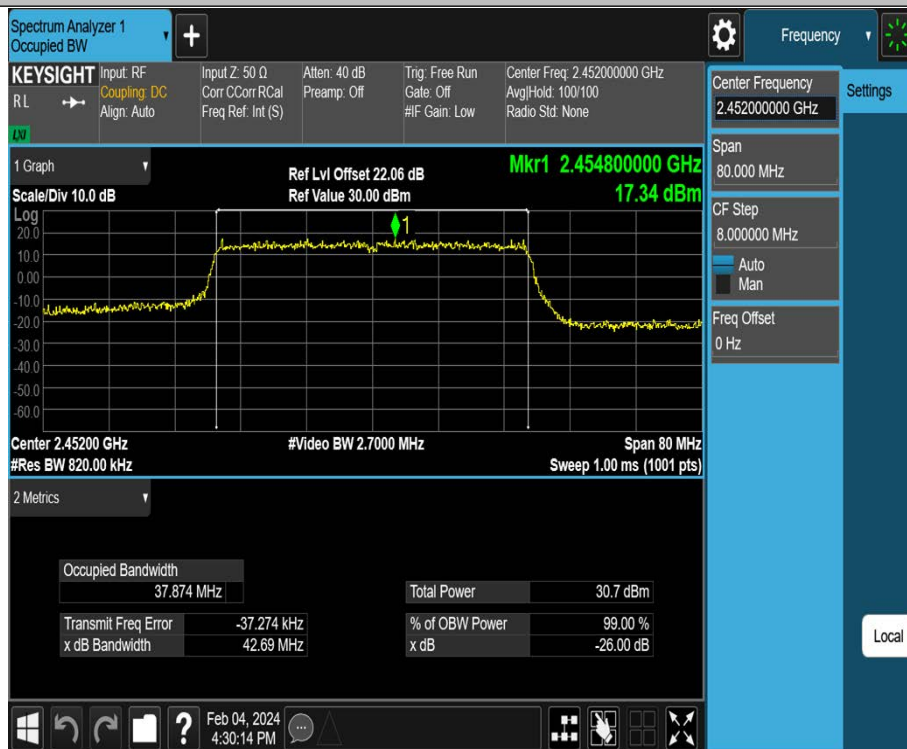
### 11AX40MIMO\_Ant3\_2437



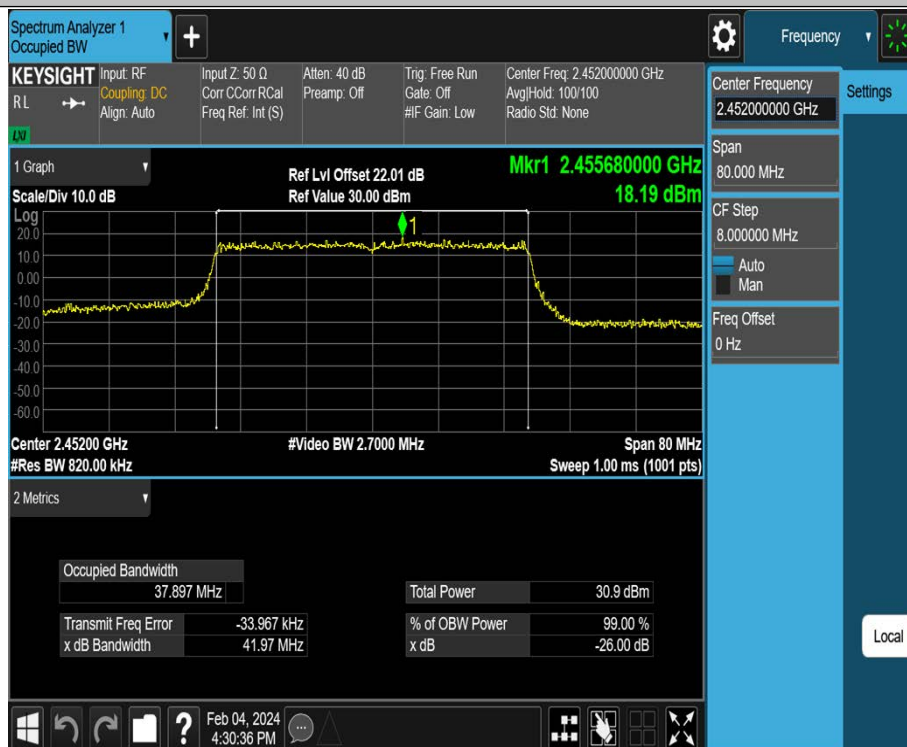
### 11AX40MIMO\_Ant4\_2437



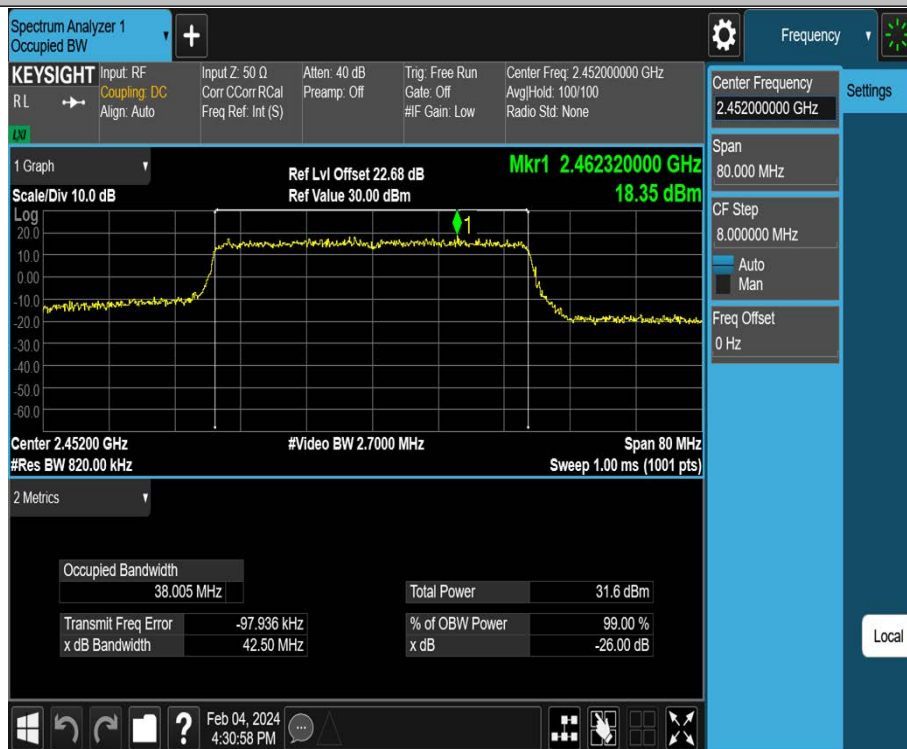
### 11AX40MIMO\_Ant1\_2452



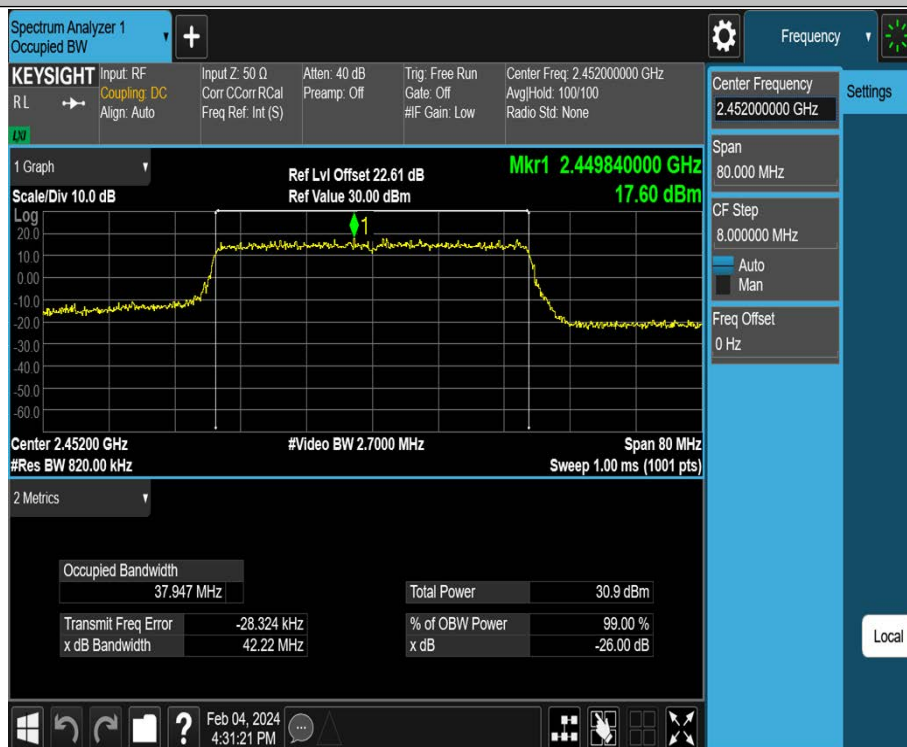
### 11AX40MIMO\_Ant2\_2452



### 11AX40MIMO\_Ant3\_2452



### 11AX40MIMO\_Ant4\_2452



### 3.5 Maximum conducted output power

#### 3.5.1 Limit

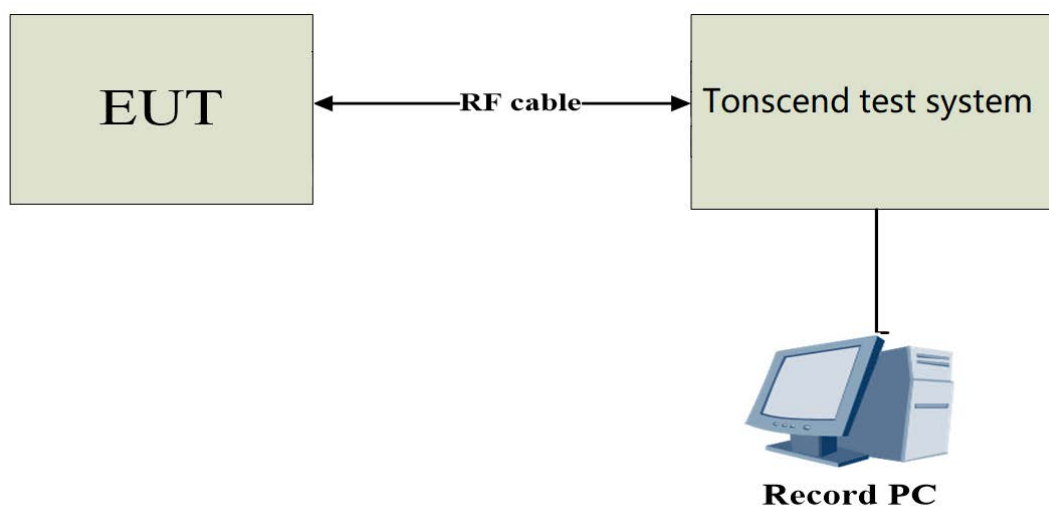
For systems using digital modulation in the 2400~2483.5MHz, The Maximum output Power shall not exceed 1W(30dBm)

#### 3.5.2 Test Procedure

| Test Method                                                                   |                                                  |
|-------------------------------------------------------------------------------|--------------------------------------------------|
| <input checked="" type="radio"/> Conducted Measurement                        | <input type="radio"/> Radiated Measurement       |
| Test Channels                                                                 |                                                  |
| <input checked="" type="radio"/> Lowest, Middle and Highest Channel           | <input type="radio"/> Lowest and Highest Channel |
| Environmental conditions                                                      |                                                  |
| <input checked="" type="radio"/> Normal                                       | <input type="radio"/> Normal and Extreme         |
| Note: <input checked="" type="radio"/> : Test <input type="radio"/> : No Test |                                                  |

- The EUT was directly connected to the tonscend test system and antenna output port as show in the block diagram below.
- The maximum conducted output power was performed in accordance with method 11.9.2.3 (for average power) of ANSI C63.10-2013 and FCC KDB 662911 D01 v02r01 Multiple Transmitter Output.

#### 3.5.3 Test Setup



### 3.5.4 Table of Parameters of Text Software Setting

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

#### No beamforming

| Test Software Version | accessMTool_REL_3_3_0_2 |      |      |
|-----------------------|-------------------------|------|------|
| Frequency (MHz)       | 2412                    | 2437 | 2462 |
| IEEE 802.11b          | 86                      | 94   | 84   |
| IEEE 802.11g          | 70                      | 94   | 68   |
| IEEE 802.11n(20)      | 66                      | 94   | 63   |
| IEEE 802.11ax(20)     | 66                      | 94   | 66   |
| Frequency (MHz)       | 2422                    | 2437 | 2452 |
| IEEE 802.11n(40)      | 62                      | 94   | 62   |
| IEEE 802.11ax(40)     | 62                      | 94   | 62   |

#### Beamforming

| Test Software Version | accessMTool_REL_3_3_0_2 |      |      |
|-----------------------|-------------------------|------|------|
| Frequency (MHz)       | 2412                    | 2437 | 2462 |
| IEEE 802.11n(20)      | 59                      | 87   | 56   |
| IEEE 802.11ax(20)     | 59                      | 87   | 59   |
| Frequency (MHz)       | 2422                    | 2437 | 2452 |
| IEEE 802.11n(40)      | 55                      | 87   | 55   |
| IEEE 802.11ax(40)     | 55                      | 87   | 55   |

### 3.5.5 The Result

No beamforming

| Test Mode | Antenna | Frequency[MHz] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|--------------|-------------|---------|
| 11B-CDD   | Ant1    | 2412           | 21.12        | ≤30.00      | PASS    |
|           | Ant2    | 2412           | 21.31        | ≤30.00      | PASS    |
|           | Ant3    | 2412           | 20.94        | ≤30.00      | PASS    |
|           | Ant4    | 2412           | 21.11        | ≤30.00      | PASS    |
|           | total   | 2412           | 27.14        | ≤30.00      | PASS    |
|           | Ant1    | 2437           | 22.86        | ≤30.00      | PASS    |
|           | Ant2    | 2437           | 23.08        | ≤30.00      | PASS    |
|           | Ant3    | 2437           | 22.97        | ≤30.00      | PASS    |
|           | Ant4    | 2437           | 23.15        | ≤30.00      | PASS    |
|           | total   | 2437           | 29.04        | ≤30.00      | PASS    |
|           | Ant1    | 2462           | 20.03        | ≤30.00      | PASS    |
|           | Ant2    | 2462           | 20.60        | ≤30.00      | PASS    |
|           | Ant3    | 2462           | 20.26        | ≤30.00      | PASS    |
|           | Ant4    | 2462           | 20.13        | ≤30.00      | PASS    |
|           | total   | 2462           | 26.28        | ≤30.00      | PASS    |
| 11G-CDD   | Ant1    | 2412           | 16.18        | ≤30.00      | PASS    |
|           | Ant2    | 2412           | 16.37        | ≤30.00      | PASS    |
|           | Ant3    | 2412           | 16.31        | ≤30.00      | PASS    |
|           | Ant4    | 2412           | 16.69        | ≤30.00      | PASS    |
|           | total   | 2412           | 22.41        | ≤30.00      | PASS    |
|           | Ant1    | 2437           | 22.34        | ≤30.00      | PASS    |
|           | Ant2    | 2437           | 23.01        | ≤30.00      | PASS    |
|           | Ant3    | 2437           | 22.69        | ≤30.00      | PASS    |
|           | Ant4    | 2437           | 22.91        | ≤30.00      | PASS    |
|           | total   | 2437           | 28.77        | ≤30.00      | PASS    |
|           | Ant1    | 2462           | 15.39        | ≤30.00      | PASS    |
|           | Ant2    | 2462           | 15.92        | ≤30.00      | PASS    |
|           | Ant3    | 2462           | 16.11        | ≤30.00      | PASS    |
|           | Ant4    | 2462           | 15.95        | ≤30.00      | PASS    |
|           | total   | 2462           | 21.87        | ≤30.00      | PASS    |
| 11N20MIMO | Ant1    | 2412           | 15.38        | ≤30.00      | PASS    |
|           | Ant2    | 2412           | 15.42        | ≤30.00      | PASS    |
|           | Ant3    | 2412           | 15.78        | ≤30.00      | PASS    |
|           | Ant4    | 2412           | 15.56        | ≤30.00      | PASS    |
|           | total   | 2412           | 21.56        | ≤30.00      | PASS    |
|           | Ant1    | 2437           | 22.83        | ≤30.00      | PASS    |
|           | Ant2    | 2437           | 23.06        | ≤30.00      | PASS    |
|           | Ant3    | 2437           | 22.71        | ≤30.00      | PASS    |

|            |       |      |       |        |      |
|------------|-------|------|-------|--------|------|
|            | Ant4  | 2437 | 23.48 | ≤30.00 | PASS |
|            | total | 2437 | 29.05 | ≤30.00 | PASS |
|            | Ant1  | 2462 | 14.18 | ≤30.00 | PASS |
|            | Ant2  | 2462 | 14.62 | ≤30.00 | PASS |
|            | Ant3  | 2462 | 15.09 | ≤30.00 | PASS |
|            | Ant4  | 2462 | 14.47 | ≤30.00 | PASS |
|            | total | 2462 | 20.62 | ≤30.00 | PASS |
| 11N40MIMO  | Ant1  | 2422 | 14.33 | ≤30.00 | PASS |
|            | Ant2  | 2422 | 14.08 | ≤30.00 | PASS |
|            | Ant3  | 2422 | 14.58 | ≤30.00 | PASS |
|            | Ant4  | 2422 | 14.51 | ≤30.00 | PASS |
|            | total | 2422 | 20.40 | ≤30.00 | PASS |
|            | Ant1  | 2437 | 22.72 | ≤30.00 | PASS |
|            | Ant2  | 2437 | 22.83 | ≤30.00 | PASS |
|            | Ant3  | 2437 | 23.31 | ≤30.00 | PASS |
|            | Ant4  | 2437 | 22.88 | ≤30.00 | PASS |
|            | total | 2437 | 28.96 | ≤30.00 | PASS |
|            | Ant1  | 2452 | 14.45 | ≤30.00 | PASS |
|            | Ant2  | 2452 | 14.03 | ≤30.00 | PASS |
|            | Ant3  | 2452 | 14.76 | ≤30.00 | PASS |
|            | Ant4  | 2452 | 14.88 | ≤30.00 | PASS |
|            | total | 2452 | 20.56 | ≤30.00 | PASS |
| 11AX20MIMO | Ant1  | 2412 | 15.12 | ≤30.00 | PASS |
|            | Ant2  | 2412 | 15.17 | ≤30.00 | PASS |
|            | Ant3  | 2412 | 15.51 | ≤30.00 | PASS |
|            | Ant4  | 2412 | 15.54 | ≤30.00 | PASS |
|            | total | 2412 | 21.36 | ≤30.00 | PASS |
|            | Ant1  | 2437 | 22.46 | ≤30.00 | PASS |
|            | Ant2  | 2437 | 22.77 | ≤30.00 | PASS |
|            | Ant3  | 2437 | 22.57 | ≤30.00 | PASS |
|            | Ant4  | 2437 | 22.96 | ≤30.00 | PASS |
|            | total | 2437 | 28.71 | ≤30.00 | PASS |
|            | Ant1  | 2462 | 15.18 | ≤30.00 | PASS |
|            | Ant2  | 2462 | 15.25 | ≤30.00 | PASS |
|            | Ant3  | 2462 | 15.88 | ≤30.00 | PASS |
|            | Ant4  | 2462 | 15.41 | ≤30.00 | PASS |
|            | total | 2462 | 21.46 | ≤30.00 | PASS |
| 11AX40MIMO | Ant1  | 2422 | 14.59 | ≤30.00 | PASS |
|            | Ant2  | 2422 | 14.44 | ≤30.00 | PASS |
|            | Ant3  | 2422 | 14.99 | ≤30.00 | PASS |
|            | Ant4  | 2422 | 15.01 | ≤30.00 | PASS |
|            | total | 2422 | 20.79 | ≤30.00 | PASS |

|  |       |      |       |        |      |
|--|-------|------|-------|--------|------|
|  | Ant1  | 2437 | 22.19 | ≤30.00 | PASS |
|  | Ant2  | 2437 | 22.35 | ≤30.00 | PASS |
|  | Ant3  | 2437 | 23.04 | ≤30.00 | PASS |
|  | Ant4  | 2437 | 22.47 | ≤30.00 | PASS |
|  | total | 2437 | 28.55 | ≤30.00 | PASS |
|  | Ant1  | 2452 | 14.55 | ≤30.00 | PASS |
|  | Ant2  | 2452 | 14.61 | ≤30.00 | PASS |
|  | Ant3  | 2452 | 15.01 | ≤30.00 | PASS |
|  | Ant4  | 2452 | 15.11 | ≤30.00 | PASS |
|  | total | 2452 | 20.85 | ≤30.00 | PASS |

Note: The duty cycle factor is compensated in the average conducted output power.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Unequal antenna gains, with equal transmit powers. For antenna gains given by <math>G_1, G_2, \dots, G_N</math> dBi</p> <p>If transmit signals are correlated, then Directional gain = <math>10 \log[(10^{G_1 \phi / 20} + 10^{G_2 \phi / 20} + \dots + 10^{G_N \phi / 20}) / N_{ANT} + (10^{G_1 \theta / 20} + 10^{G_2 \theta / 20} + \dots + 10^{G_N \theta / 20})^2 / N_{ANT}]</math> dBi [Note the "20"s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]</p> <p>Directional gain = 1.85dBi</p> |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Beamforming

| Test Mode | Antenna | Frequency[MHz] | Result [dBm] | Limit [dBm] | Verdict |
|-----------|---------|----------------|--------------|-------------|---------|
| 11N20MIMO | Ant1    | 2412           | 13.85        | ≤30.00      | PASS    |
|           | Ant2    | 2412           | 13.89        | ≤30.00      | PASS    |
|           | Ant3    | 2412           | 14.25        | ≤30.00      | PASS    |
|           | Ant4    | 2412           | 14.03        | ≤30.00      | PASS    |
|           | total   | 2412           | 20.03        | ≤30.00      | PASS    |
|           | Ant1    | 2437           | 21.28        | ≤30.00      | PASS    |
|           | Ant2    | 2437           | 21.51        | ≤30.00      | PASS    |
|           | Ant3    | 2437           | 21.16        | ≤30.00      | PASS    |
|           | Ant4    | 2437           | 21.93        | ≤30.00      | PASS    |
|           | total   | 2437           | 27.50        | ≤30.00      | PASS    |
|           | Ant1    | 2462           | 12.61        | ≤30.00      | PASS    |
|           | Ant2    | 2462           | 13.05        | ≤30.00      | PASS    |
|           | Ant3    | 2462           | 13.52        | ≤30.00      | PASS    |
|           | Ant4    | 2462           | 12.90        | ≤30.00      | PASS    |
|           | total   | 2462           | 19.05        | ≤30.00      | PASS    |
| 11N40MIMO | Ant1    | 2422           | 12.78        | ≤30.00      | PASS    |
|           | Ant2    | 2422           | 12.53        | ≤30.00      | PASS    |
|           | Ant3    | 2422           | 13.03        | ≤30.00      | PASS    |
|           | Ant4    | 2422           | 12.96        | ≤30.00      | PASS    |
|           | total   | 2422           | 18.85        | ≤30.00      | PASS    |
|           | Ant1    | 2437           | 21.15        | ≤30.00      | PASS    |
|           | Ant2    | 2437           | 21.26        | ≤30.00      | PASS    |
|           | Ant3    | 2437           | 21.74        | ≤30.00      | PASS    |

|            |       |      |       |        |      |
|------------|-------|------|-------|--------|------|
|            | Ant4  | 2437 | 21.31 | ≤30.00 | PASS |
|            | total | 2437 | 27.39 | ≤30.00 | PASS |
|            | Ant1  | 2452 | 12.93 | ≤30.00 | PASS |
|            | Ant2  | 2452 | 12.51 | ≤30.00 | PASS |
|            | Ant3  | 2452 | 13.24 | ≤30.00 | PASS |
|            | Ant4  | 2452 | 13.36 | ≤30.00 | PASS |
|            | total | 2452 | 19.04 | ≤30.00 | PASS |
| 11AX20MIMO | Ant1  | 2412 | 13.50 | ≤30.00 | PASS |
|            | Ant2  | 2412 | 13.55 | ≤30.00 | PASS |
|            | Ant3  | 2412 | 13.89 | ≤30.00 | PASS |
|            | Ant4  | 2412 | 13.92 | ≤30.00 | PASS |
|            | total | 2412 | 19.74 | ≤30.00 | PASS |
|            | Ant1  | 2437 | 20.88 | ≤30.00 | PASS |
|            | Ant2  | 2437 | 21.19 | ≤30.00 | PASS |
|            | Ant3  | 2437 | 20.99 | ≤30.00 | PASS |
|            | Ant4  | 2437 | 21.38 | ≤30.00 | PASS |
|            | total | 2437 | 27.13 | ≤30.00 | PASS |
|            | Ant1  | 2462 | 13.62 | ≤30.00 | PASS |
|            | Ant2  | 2462 | 13.69 | ≤30.00 | PASS |
|            | Ant3  | 2462 | 14.32 | ≤30.00 | PASS |
|            | Ant4  | 2462 | 13.85 | ≤30.00 | PASS |
|            | total | 2462 | 19.90 | ≤30.00 | PASS |
| 11AX40MIMO | Ant1  | 2422 | 13.03 | ≤30.00 | PASS |
|            | Ant2  | 2422 | 12.88 | ≤30.00 | PASS |
|            | Ant3  | 2422 | 13.43 | ≤30.00 | PASS |
|            | Ant4  | 2422 | 13.45 | ≤30.00 | PASS |
|            | total | 2422 | 19.23 | ≤30.00 | PASS |
|            | Ant1  | 2437 | 20.60 | ≤30.00 | PASS |
|            | Ant2  | 2437 | 20.76 | ≤30.00 | PASS |
|            | Ant3  | 2437 | 21.45 | ≤30.00 | PASS |
|            | Ant4  | 2437 | 20.88 | ≤30.00 | PASS |
|            | total | 2437 | 26.96 | ≤30.00 | PASS |
|            | Ant1  | 2452 | 13.00 | ≤30.00 | PASS |
|            | Ant2  | 2452 | 13.06 | ≤30.00 | PASS |
|            | Ant3  | 2452 | 13.46 | ≤30.00 | PASS |
|            | Ant4  | 2452 | 13.56 | ≤30.00 | PASS |
|            | total | 2452 | 19.30 | ≤30.00 | PASS |

Note: The duty cycle factor is compensated in the average conducted output power.

Correlated chains directional gain=1.85+1.5=3.35dBi

### 3.6 Power Spectral Density

#### 3.6.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmitting.

#### 3.6.2 Test Procedure

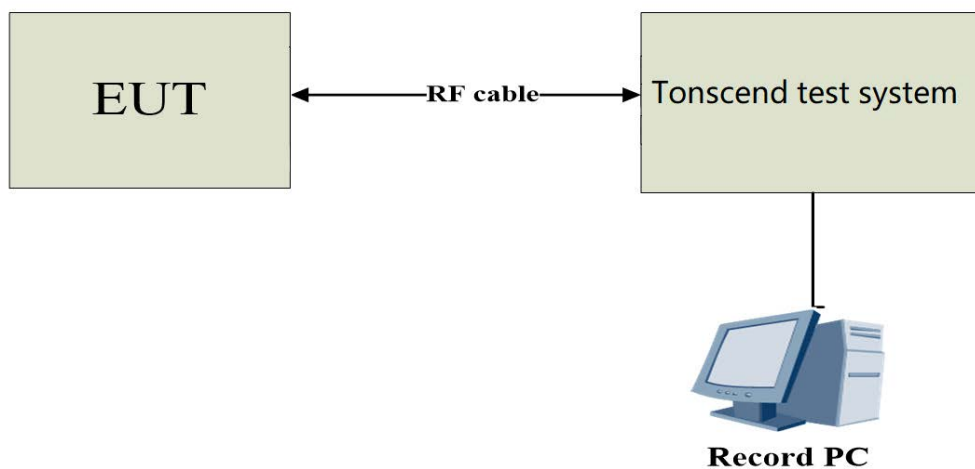
| Test Method                                                         |                                                  |
|---------------------------------------------------------------------|--------------------------------------------------|
| <input checked="" type="radio"/> Conducted Measurement              | <input type="radio"/> Radiated Measurement       |
| Test Channels                                                       |                                                  |
| <input checked="" type="radio"/> Lowest, Middle and Highest Channel | <input type="radio"/> Lowest and Highest Channel |
| Environmental conditions                                            |                                                  |
| <input checked="" type="radio"/> Normal                             | <input type="radio"/> Normal and Extreme         |
| Note: ● : Test    ○ : No Test                                       |                                                  |

a) The EUT was directly connected to the tonscond test system and antenna output port as show in the block diagram below.

b) Spectrum analyser settings as following:

| Spectrum Parameters | Setting                     |
|---------------------|-----------------------------|
| Span Frequency      | 1.5 times the DTS bandwidth |
| RBW                 | 3 kHz                       |
| VBW                 | 10 kHz                      |
| Detector            | Average                     |
| Trace               | Max Hold                    |
| Sweep Time          | Auto                        |

#### 3.6.3 Test Setup



### 3.6.4 The Result

| Test Mode | Antenna | Frequency[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|-----------|---------|----------------|------------------|-----------------|---------|
| 11B-CDD   | Ant1    | 2412           | -7.25            | ≤8.00           | PASS    |
|           | Ant2    | 2412           | -6.97            | ≤8.00           | PASS    |
|           | Ant3    | 2412           | -7.20            | ≤8.00           | PASS    |
|           | Ant4    | 2412           | -7.37            | ≤8.00           | PASS    |
|           | total   | 2412           | -1.17            | ≤8.00           | PASS    |
|           | Ant1    | 2437           | -7.09            | ≤8.00           | PASS    |
|           | Ant2    | 2437           | -7.05            | ≤8.00           | PASS    |
|           | Ant3    | 2437           | -7.51            | ≤8.00           | PASS    |
|           | Ant4    | 2437           | -6.97            | ≤8.00           | PASS    |
|           | total   | 2437           | -1.13            | ≤8.00           | PASS    |
|           | Ant1    | 2462           | -6.80            | ≤8.00           | PASS    |
|           | Ant2    | 2462           | -6.72            | ≤8.00           | PASS    |
|           | Ant3    | 2462           | -7.01            | ≤8.00           | PASS    |
|           | Ant4    | 2462           | -6.77            | ≤8.00           | PASS    |
|           | total   | 2462           | -0.80            | ≤8.00           | PASS    |
| 11G-CDD   | Ant1    | 2412           | -13.42           | ≤8.00           | PASS    |
|           | Ant2    | 2412           | -13.15           | ≤8.00           | PASS    |
|           | Ant3    | 2412           | -13.29           | ≤8.00           | PASS    |
|           | Ant4    | 2412           | -13.02           | ≤8.00           | PASS    |
|           | total   | 2412           | -7.20            | ≤8.00           | PASS    |
|           | Ant1    | 2437           | -6.43            | ≤8.00           | PASS    |
|           | Ant2    | 2437           | -5.81            | ≤8.00           | PASS    |
|           | Ant3    | 2437           | -5.83            | ≤8.00           | PASS    |
|           | Ant4    | 2437           | -5.89            | ≤8.00           | PASS    |
|           | total   | 2437           | 0.04             | ≤8.00           | PASS    |
|           | Ant1    | 2462           | -13.44           | ≤8.00           | PASS    |
|           | Ant2    | 2462           | -13.21           | ≤8.00           | PASS    |
|           | Ant3    | 2462           | -13.15           | ≤8.00           | PASS    |
|           | Ant4    | 2462           | -13.20           | ≤8.00           | PASS    |
|           | total   | 2462           | -7.23            | ≤8.00           | PASS    |
| 11N20MIMO | Ant1    | 2412           | -14.22           | ≤8.00           | PASS    |
|           | Ant2    | 2412           | -13.76           | ≤8.00           | PASS    |
|           | Ant3    | 2412           | -13.24           | ≤8.00           | PASS    |
|           | Ant4    | 2412           | -14.17           | ≤8.00           | PASS    |
|           | total   | 2412           | -7.81            | ≤8.00           | PASS    |
|           | Ant1    | 2437           | -6.64            | ≤8.00           | PASS    |
|           | Ant2    | 2437           | -6.10            | ≤8.00           | PASS    |
|           | Ant3    | 2437           | -5.59            | ≤8.00           | PASS    |
|           | Ant4    | 2437           | -5.63            | ≤8.00           | PASS    |
|           | total   | 2437           | 0.05             | ≤8.00           | PASS    |

|            |       |      |        |       |      |
|------------|-------|------|--------|-------|------|
|            | Ant1  | 2462 | -15.37 | ≤8.00 | PASS |
|            | Ant2  | 2462 | -14.72 | ≤8.00 | PASS |
|            | Ant3  | 2462 | -13.76 | ≤8.00 | PASS |
|            | Ant4  | 2462 | -15.37 | ≤8.00 | PASS |
|            | total | 2462 | -8.73  | ≤8.00 | PASS |
| 11N40MIMO  | Ant1  | 2422 | -17.87 | ≤8.00 | PASS |
|            | Ant2  | 2422 | -17.90 | ≤8.00 | PASS |
|            | Ant3  | 2422 | -17.56 | ≤8.00 | PASS |
|            | Ant4  | 2422 | -17.31 | ≤8.00 | PASS |
|            | total | 2422 | -11.63 | ≤8.00 | PASS |
|            | Ant1  | 2437 | -8.85  | ≤8.00 | PASS |
|            | Ant2  | 2437 | -8.25  | ≤8.00 | PASS |
|            | Ant3  | 2437 | -7.37  | ≤8.00 | PASS |
|            | Ant4  | 2437 | -8.30  | ≤8.00 | PASS |
|            | total | 2437 | -2.14  | ≤8.00 | PASS |
|            | Ant1  | 2452 | -18.68 | ≤8.00 | PASS |
|            | Ant2  | 2452 | -18.93 | ≤8.00 | PASS |
|            | Ant3  | 2452 | -17.85 | ≤8.00 | PASS |
|            | Ant4  | 2452 | -17.68 | ≤8.00 | PASS |
|            | total | 2452 | -12.23 | ≤8.00 | PASS |
| 11AX20MIMO | Ant1  | 2412 | -17.22 | ≤8.00 | PASS |
|            | Ant2  | 2412 | -15.59 | ≤8.00 | PASS |
|            | Ant3  | 2412 | -15.39 | ≤8.00 | PASS |
|            | Ant4  | 2412 | -16.35 | ≤8.00 | PASS |
|            | total | 2412 | -10.06 | ≤8.00 | PASS |
|            | Ant1  | 2437 | -8.62  | ≤8.00 | PASS |
|            | Ant2  | 2437 | -6.53  | ≤8.00 | PASS |
|            | Ant3  | 2437 | -6.32  | ≤8.00 | PASS |
|            | Ant4  | 2437 | -7.13  | ≤8.00 | PASS |
|            | total | 2437 | -1.04  | ≤8.00 | PASS |
|            | Ant1  | 2462 | -17.76 | ≤8.00 | PASS |
|            | Ant2  | 2462 | -16.17 | ≤8.00 | PASS |
|            | Ant3  | 2462 | -15.46 | ≤8.00 | PASS |
|            | Ant4  | 2462 | -17.65 | ≤8.00 | PASS |
|            | total | 2462 | -10.63 | ≤8.00 | PASS |
| 11AX40MIMO | Ant1  | 2422 | -21.01 | ≤8.00 | PASS |
|            | Ant2  | 2422 | -20.70 | ≤8.00 | PASS |
|            | Ant3  | 2422 | -19.81 | ≤8.00 | PASS |
|            | Ant4  | 2422 | -20.30 | ≤8.00 | PASS |
|            | total | 2422 | -14.41 | ≤8.00 | PASS |
|            | Ant1  | 2437 | -11.32 | ≤8.00 | PASS |
|            | Ant2  | 2437 | -11.20 | ≤8.00 | PASS |

|  |       |      |        |       |      |
|--|-------|------|--------|-------|------|
|  | Ant3  | 2437 | -11.11 | ≤8.00 | PASS |
|  | Ant4  | 2437 | -11.50 | ≤8.00 | PASS |
|  | total | 2437 | -5.26  | ≤8.00 | PASS |
|  | Ant1  | 2452 | -21.11 | ≤8.00 | PASS |
|  | Ant2  | 2452 | -21.43 | ≤8.00 | PASS |
|  | Ant3  | 2452 | -20.88 | ≤8.00 | PASS |
|  | Ant4  | 2452 | -20.69 | ≤8.00 | PASS |
|  | total | 2452 | -15.00 | ≤8.00 | PASS |

Note: The duty cycle factor is compensated in the graph.

Unequal antenna gains, with equal transmit powers. For antenna gains given by  $G_1, G_2, \dots, G_N$  dBi  
 If transmit signals are correlated, then Directional gain =  $10 \log[(10^{G_1 \text{ phi}/20} + 10^{G_2 \text{ phi}/20} + \dots + 10^{G_N \text{ phi}/20}) / N_{ANT} + (10^{G_1 \text{ theta}/20} + 10^{G_2 \text{ theta}/20} + \dots + 10^{G_N \text{ theta}/20})^2 / N_{ANT}]$  dBi [Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

Directional gain = 1.85dBi

Beamforming conducted power less than no beamforming conducted power, so only no beamforming conducted power spectral density was recorded.

### 11B-CDD\_Ant1\_2412



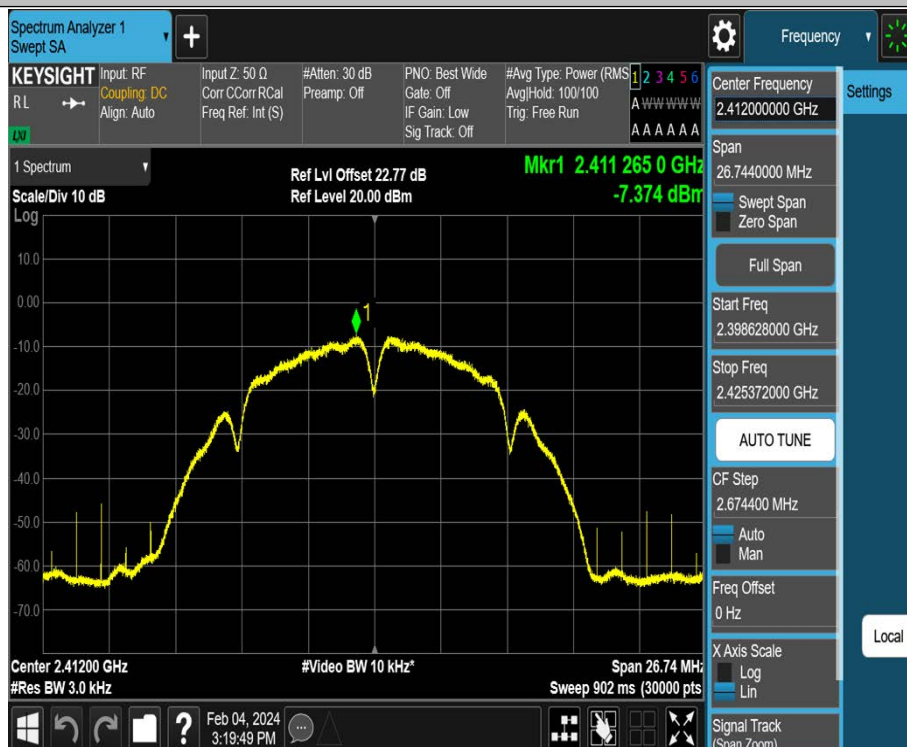
### 11B-CDD\_Ant2\_2412



11B-CDD\_Ant3\_2412



11B-CDD\_Ant4\_2412



### 11B-CDD\_Ant1\_2437



### 11B-CDD\_Ant2\_2437



### 11B-CDD\_Ant3\_2437



### 11B-CDD\_Ant4\_2437



### 11B-CDD\_Ant1\_2462



### 11B-CDD\_Ant2\_2462



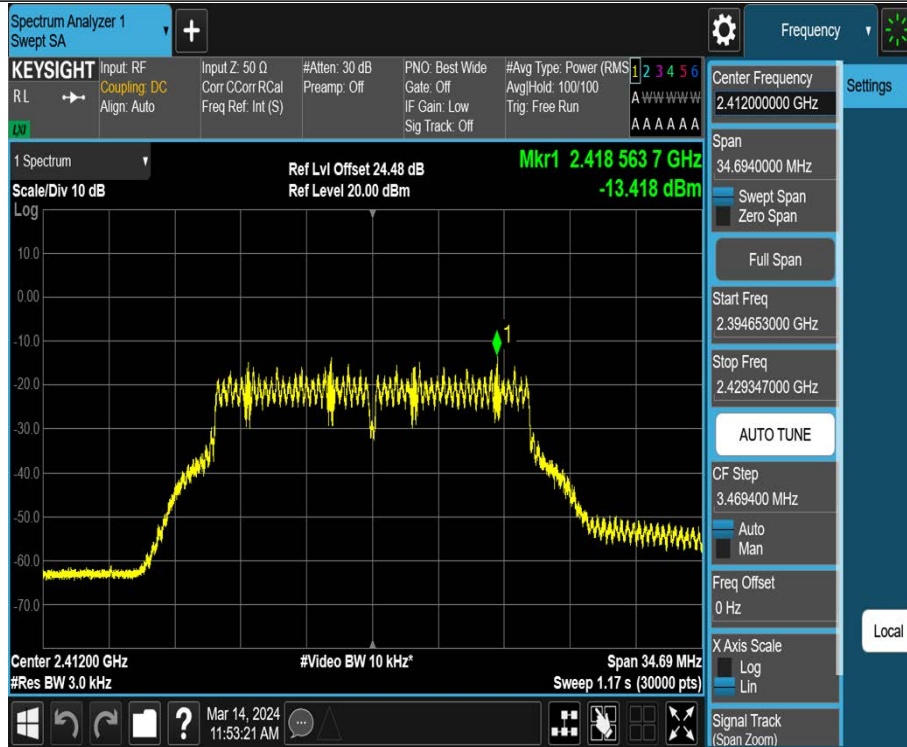
### 11B-CDD\_Ant3\_2462



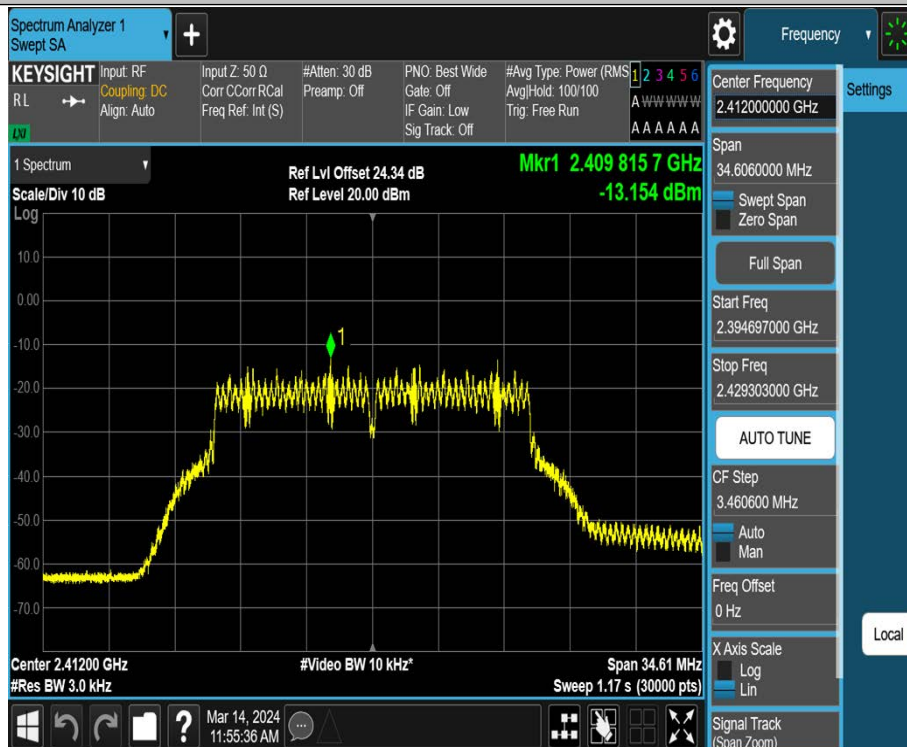
### 11B-CDD\_Ant4\_2462



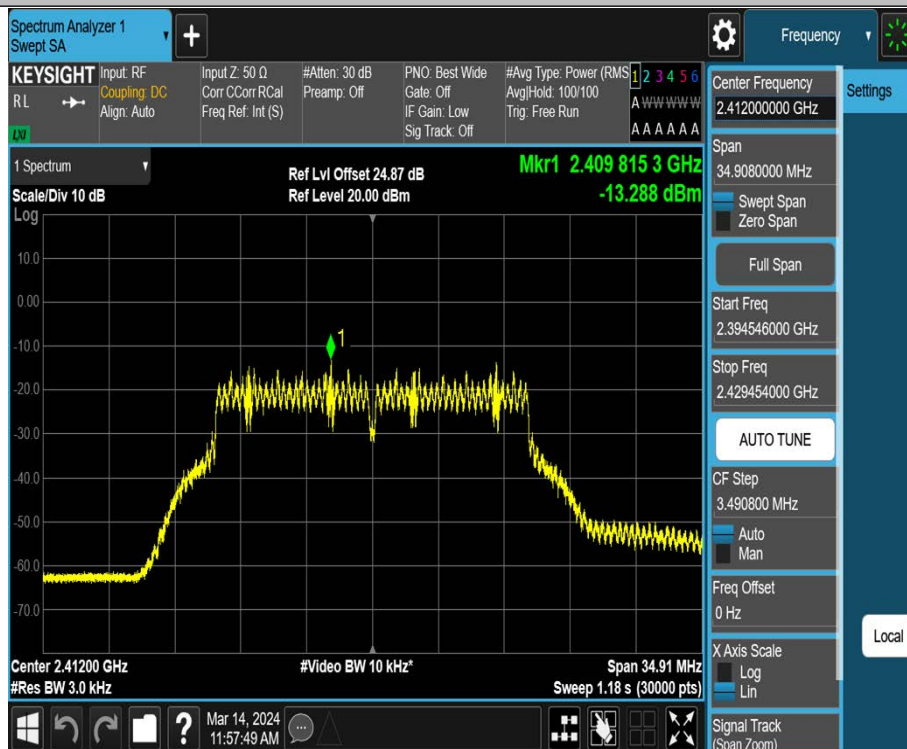
### 11G-CDD\_Ant1\_2412



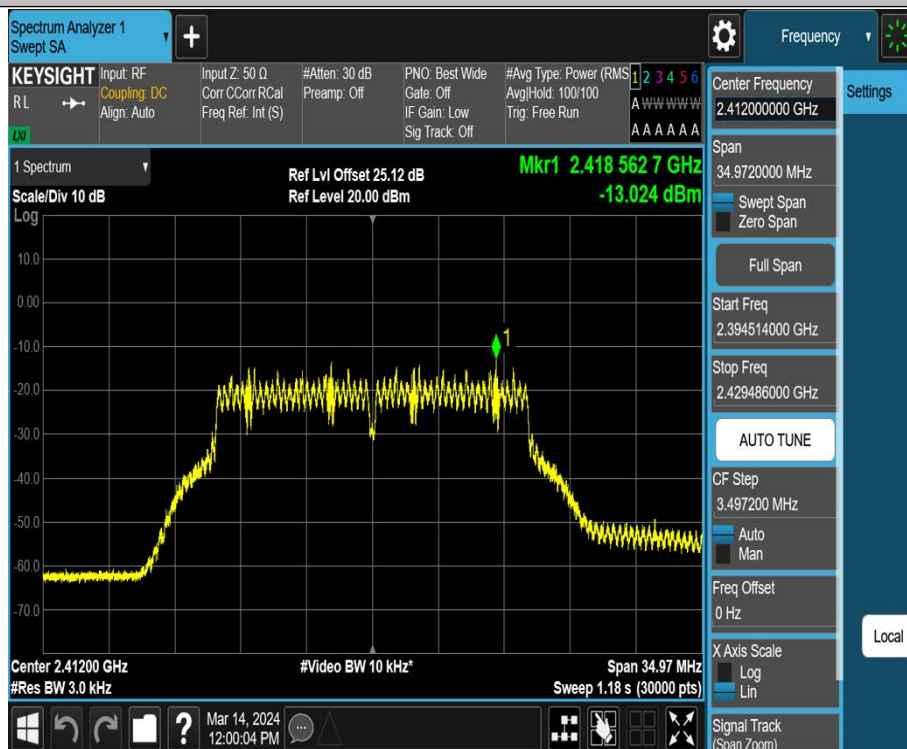
### 11G-CDD\_Ant2\_2412



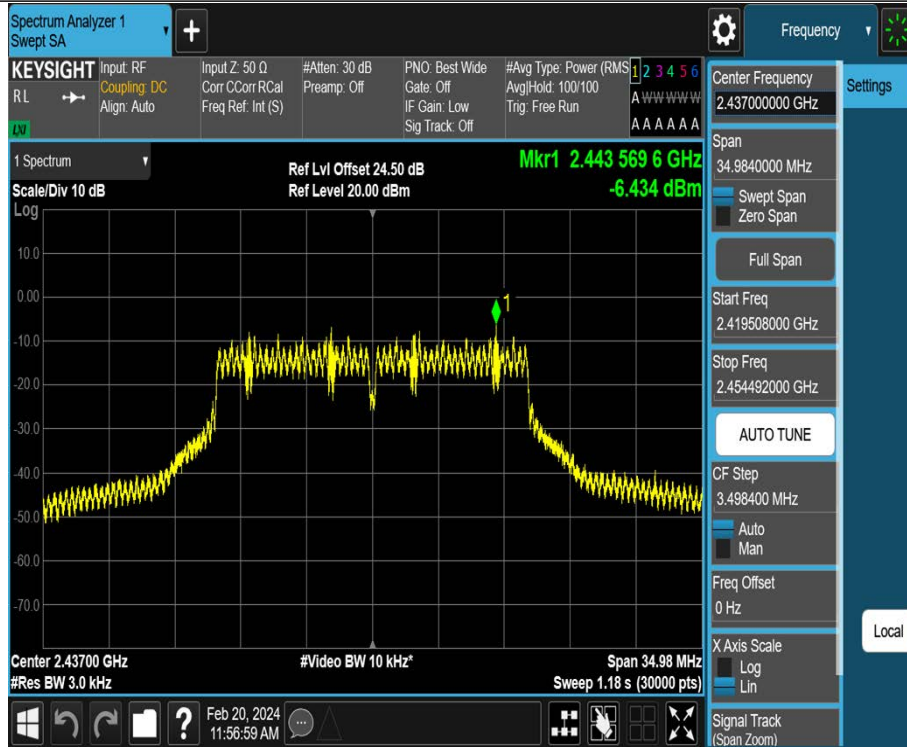
### 11G-CDD\_Ant3\_2412



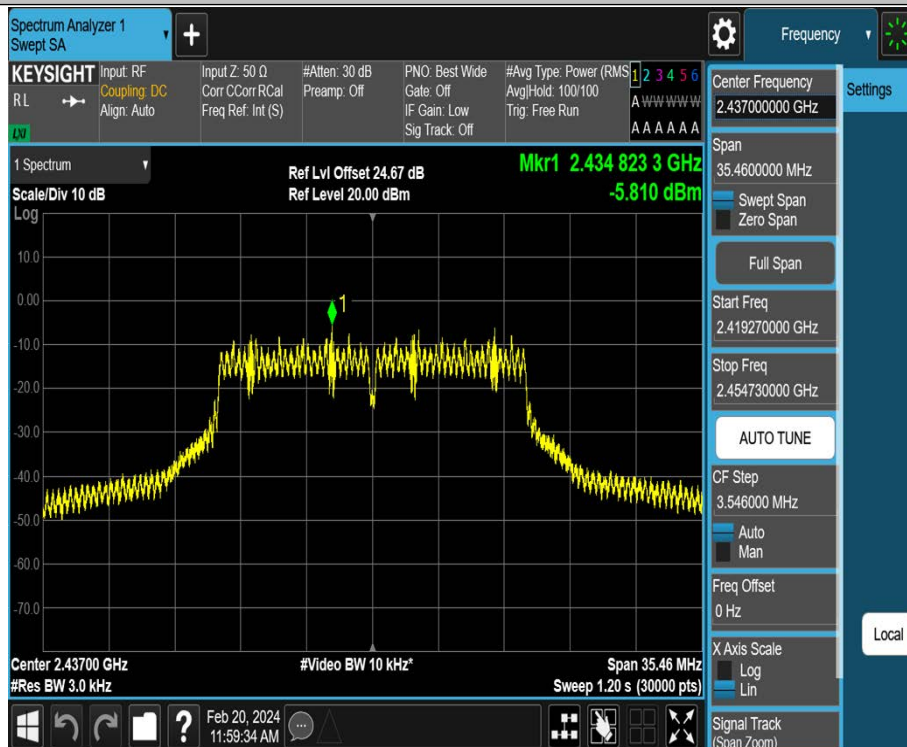
### 11G-CDD\_Ant4\_2412



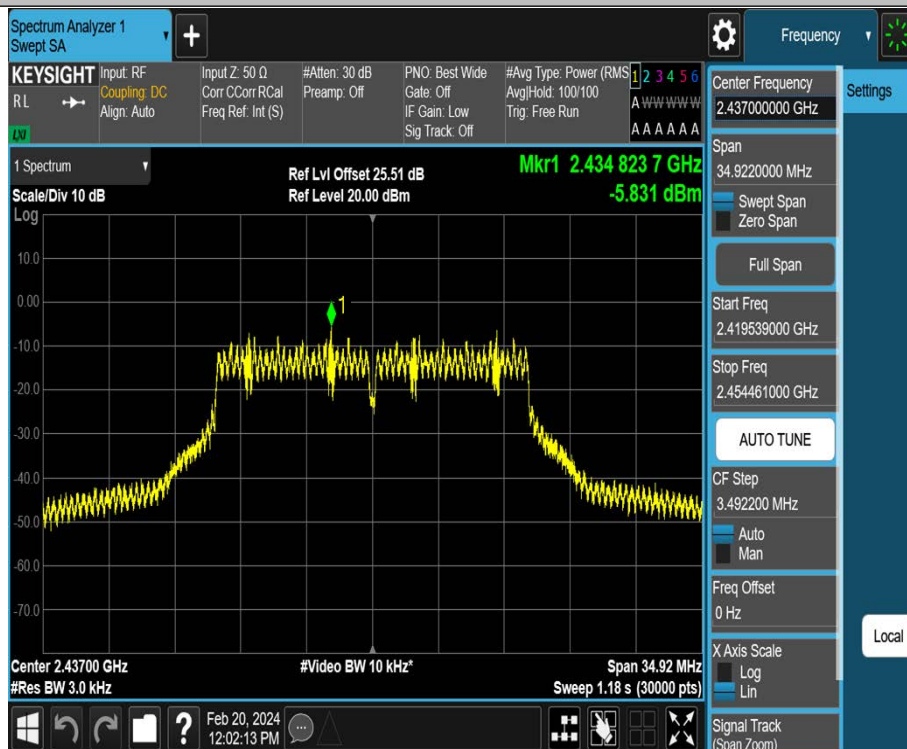
### 11G-CDD\_Ant1\_2437



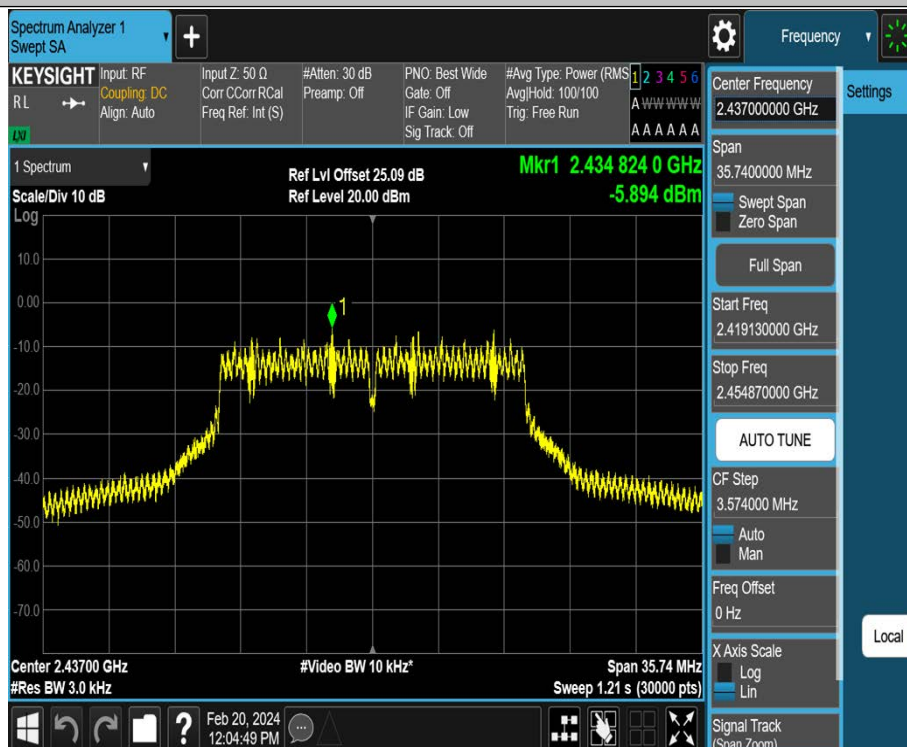
### 11G-CDD\_Ant2\_2437



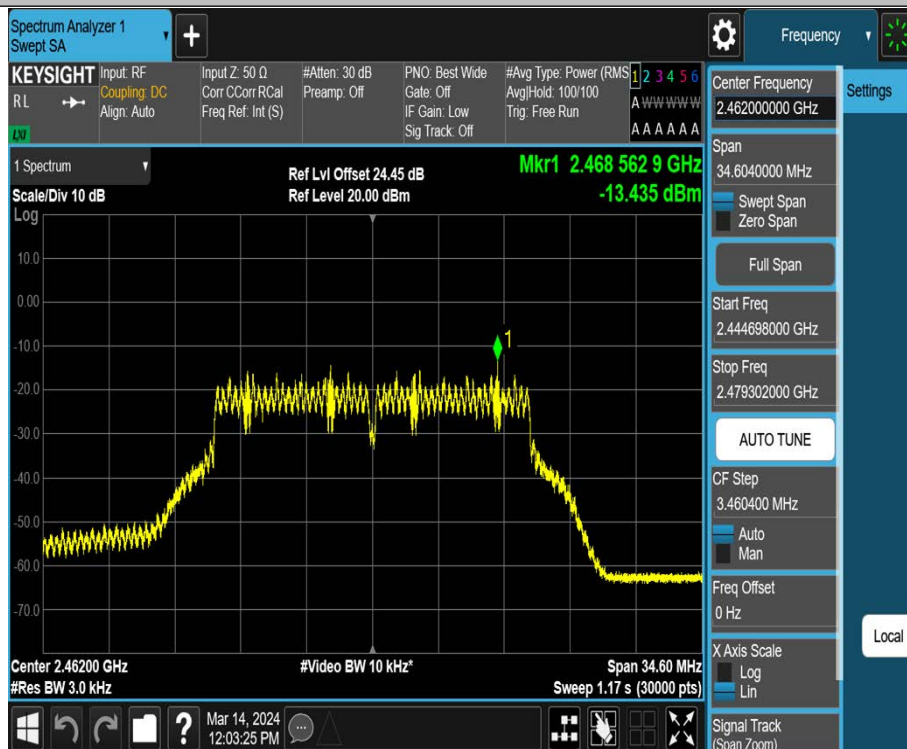
### 11G-CDD\_Ant3\_2437



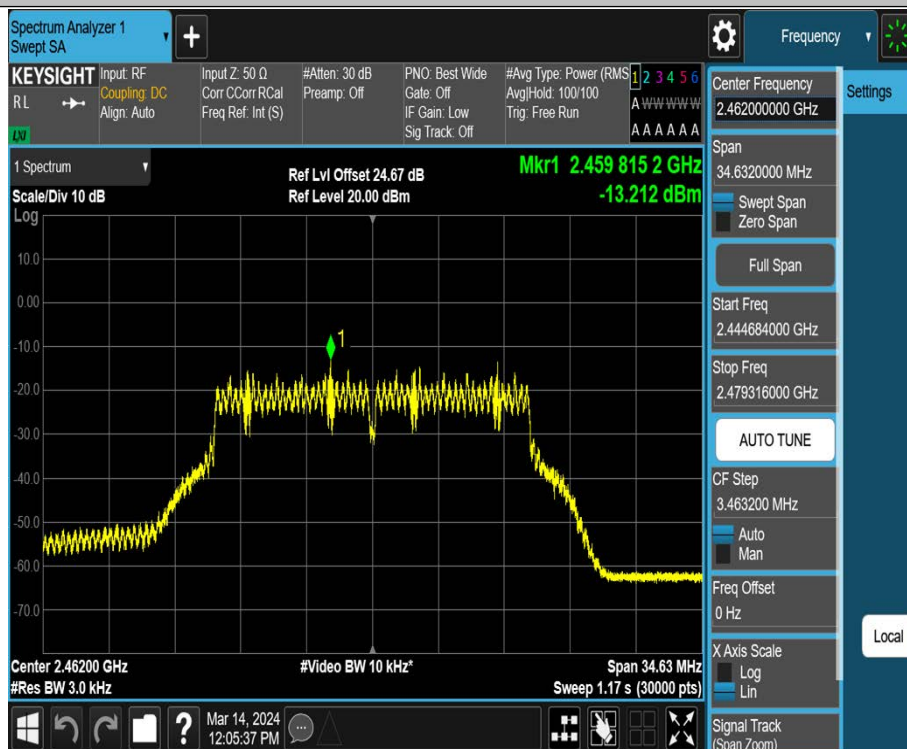
### 11G-CDD\_Ant4\_2437



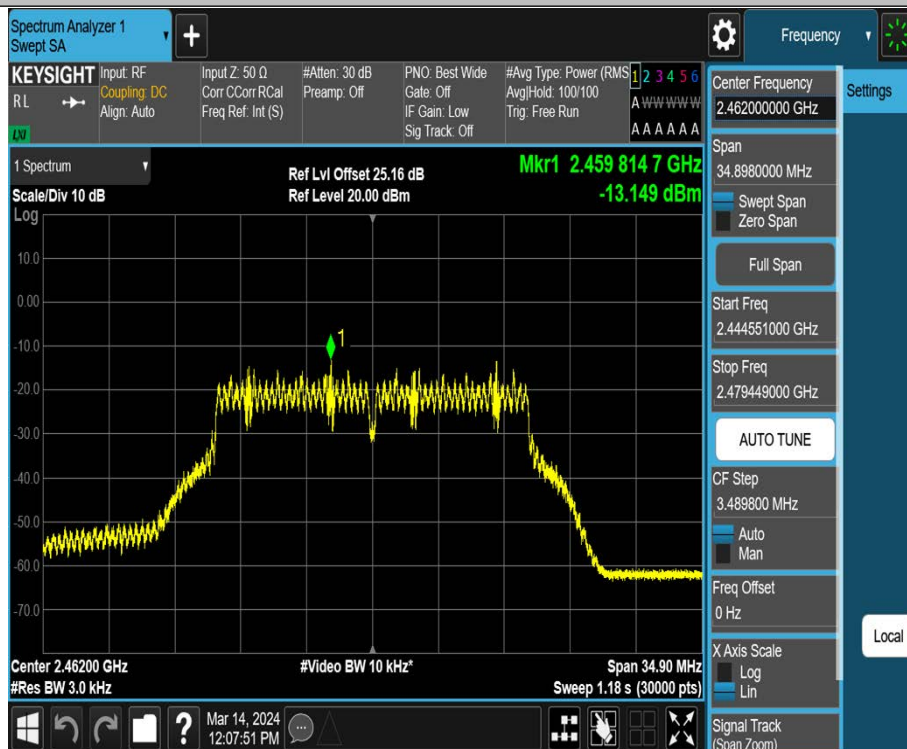
### 11G-CDD\_Ant1\_2462



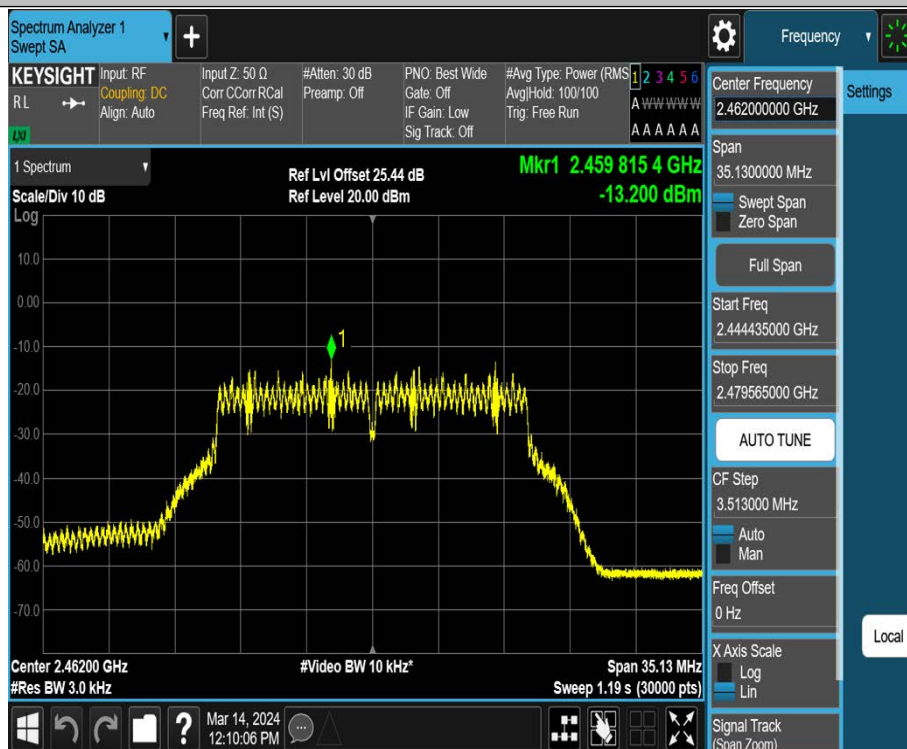
### 11G-CDD\_Ant2\_2462



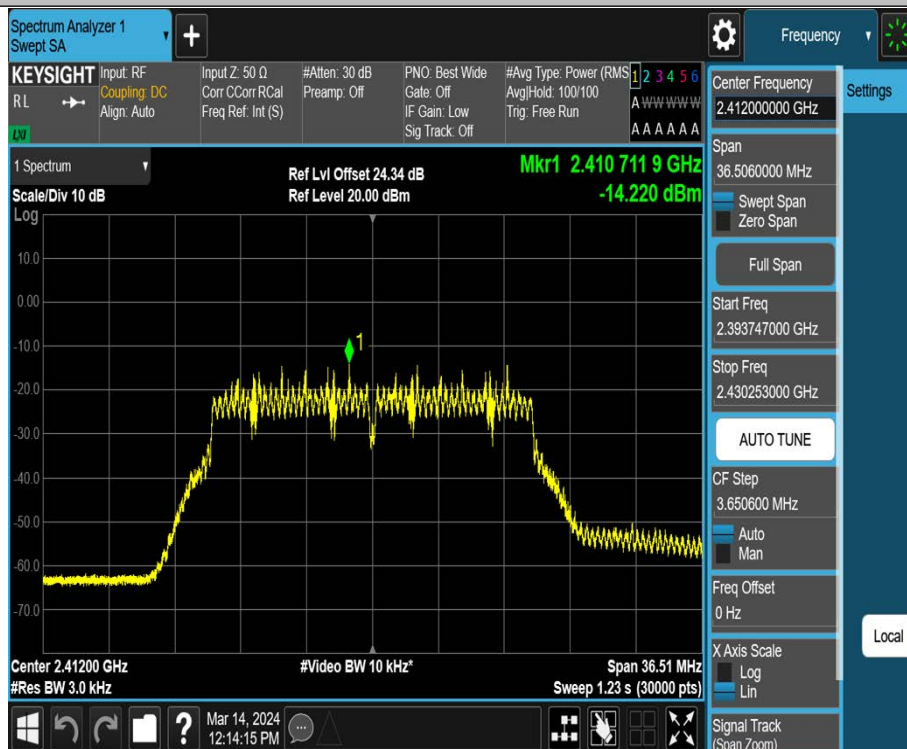
### 11G-CDD\_Ant3\_2462



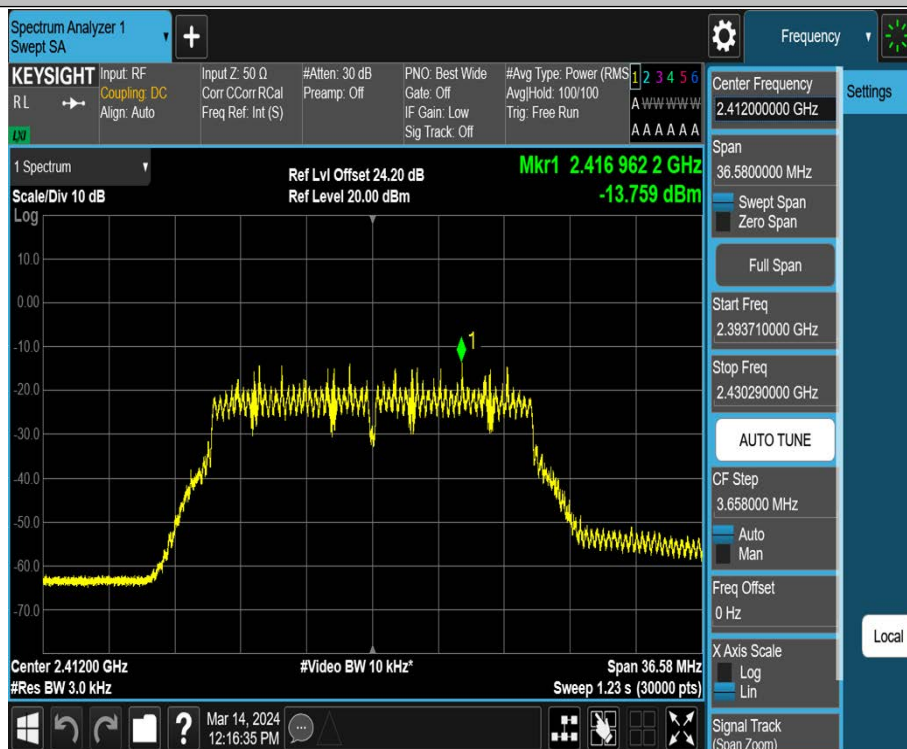
### 11G-CDD\_Ant4\_2462



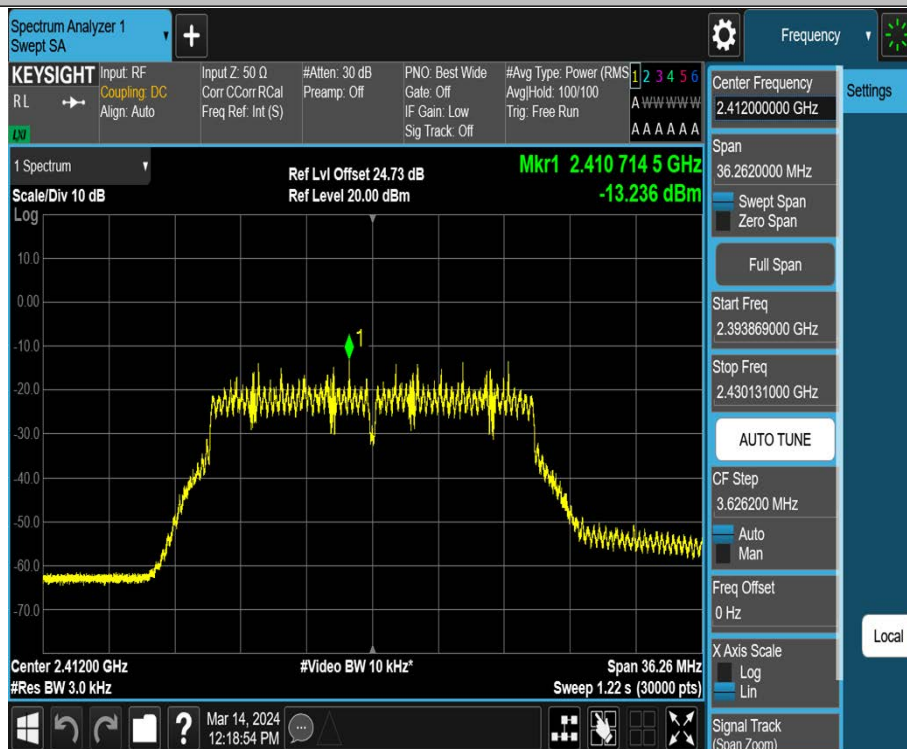
### 11N20MIMO\_Ant1\_2412



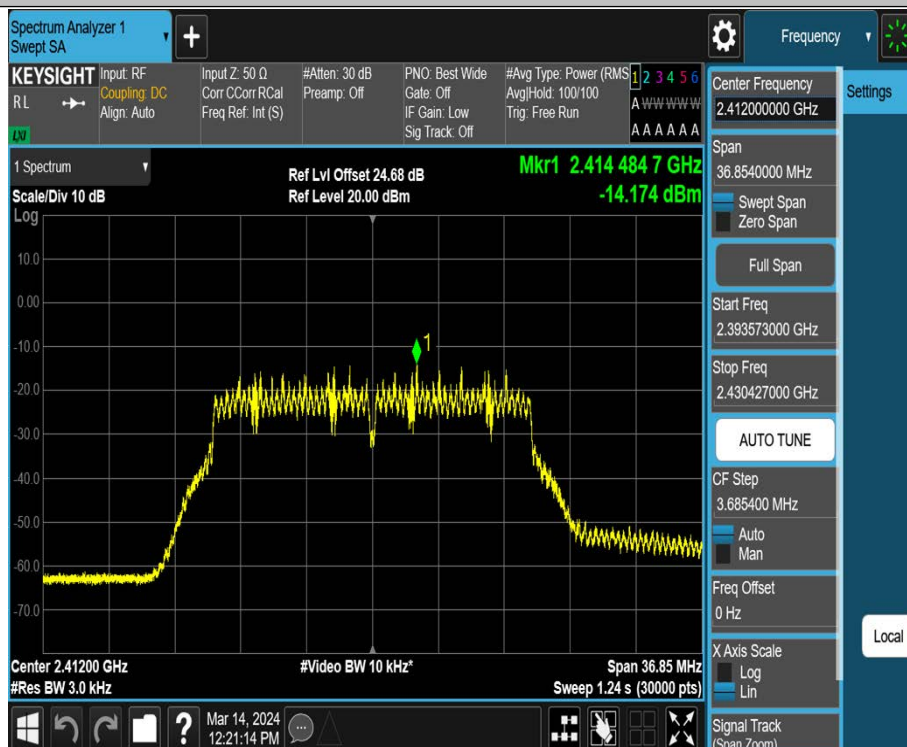
### 11N20MIMO\_Ant2\_2412



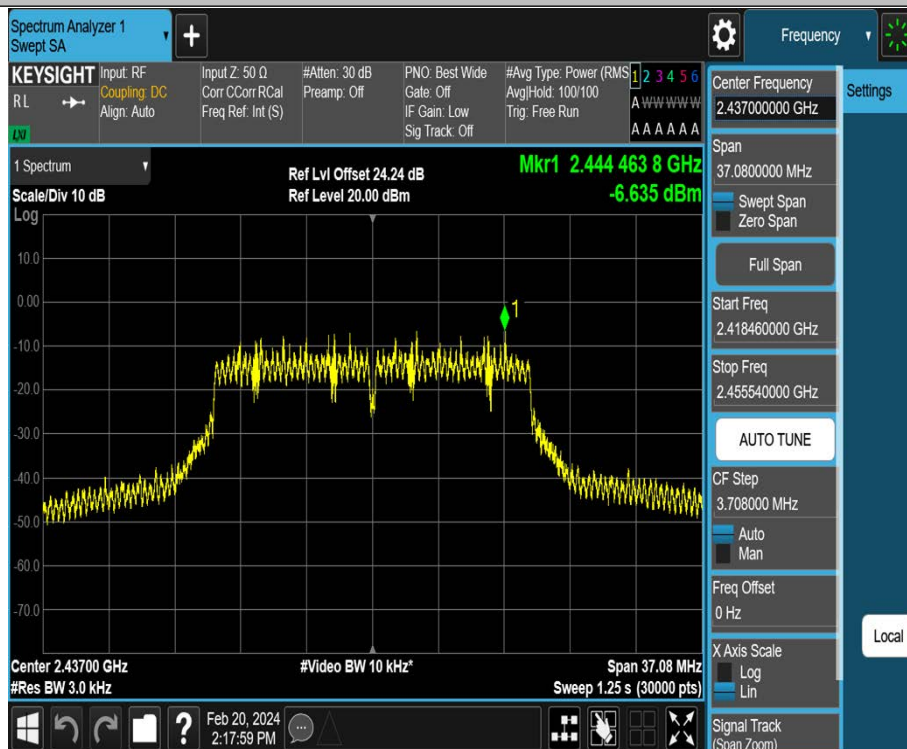
### 11N20MIMO\_Ant3\_2412



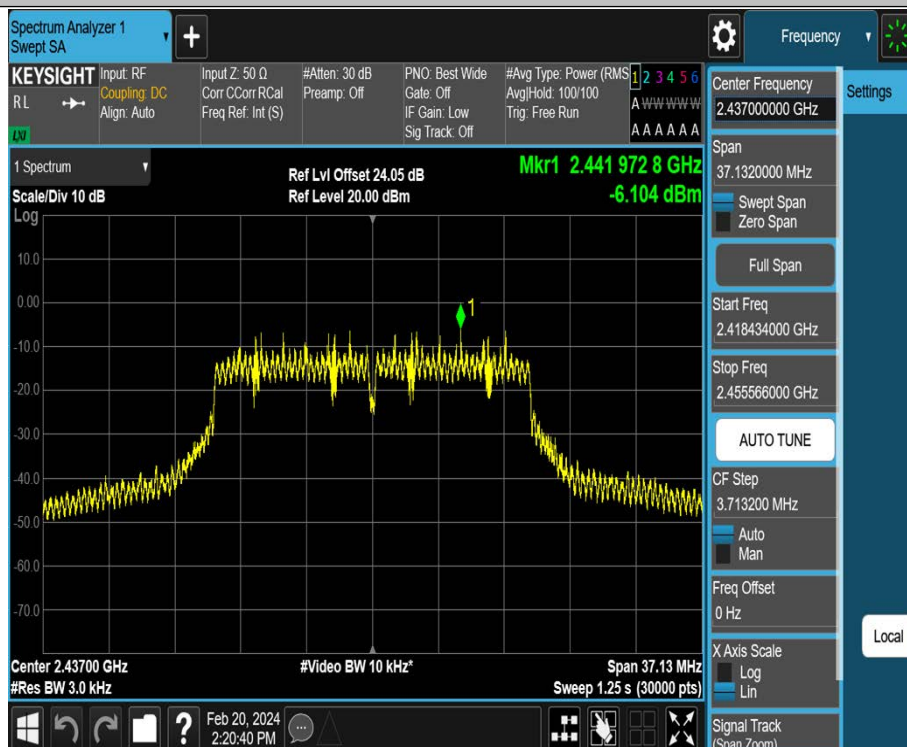
### 11N20MIMO\_Ant4\_2412



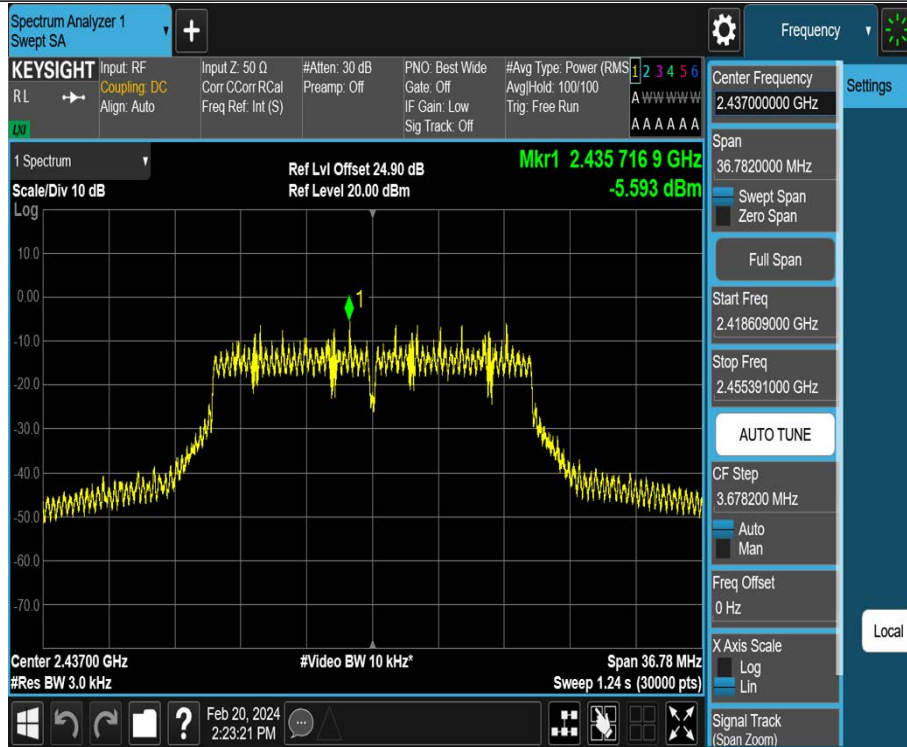
### 11N20MIMO\_Ant1\_2437



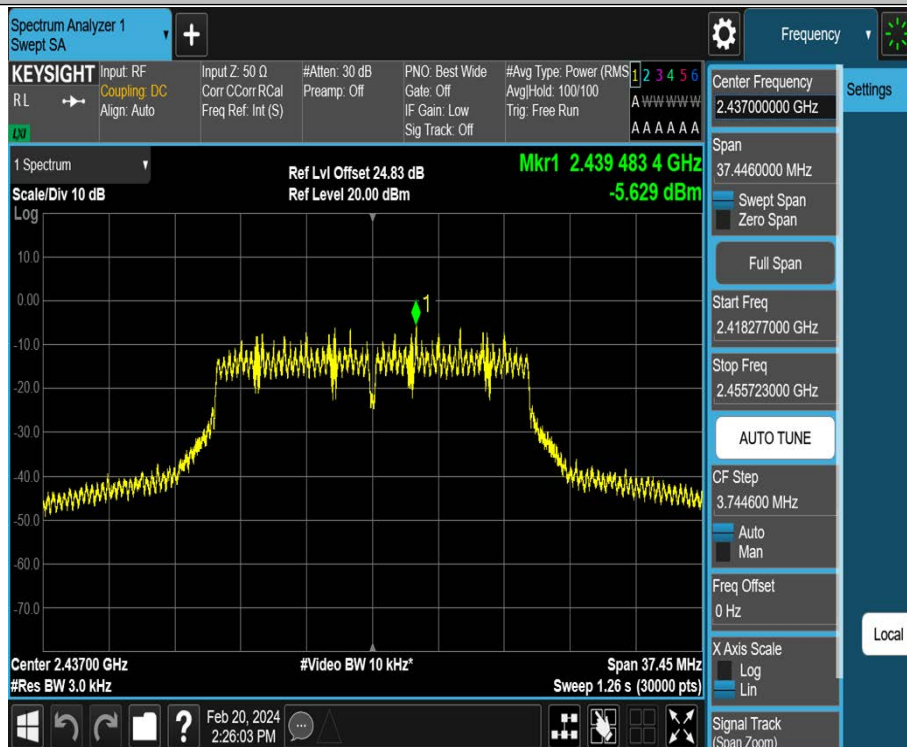
### 11N20MIMO\_Ant2\_2437



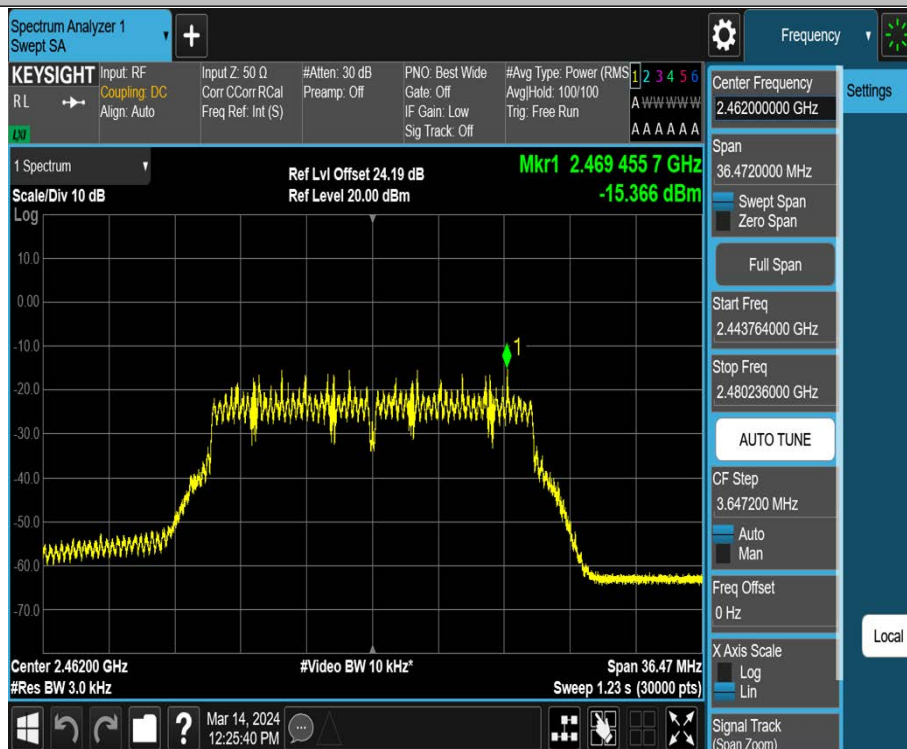
### 11N20MIMO\_Ant3\_2437



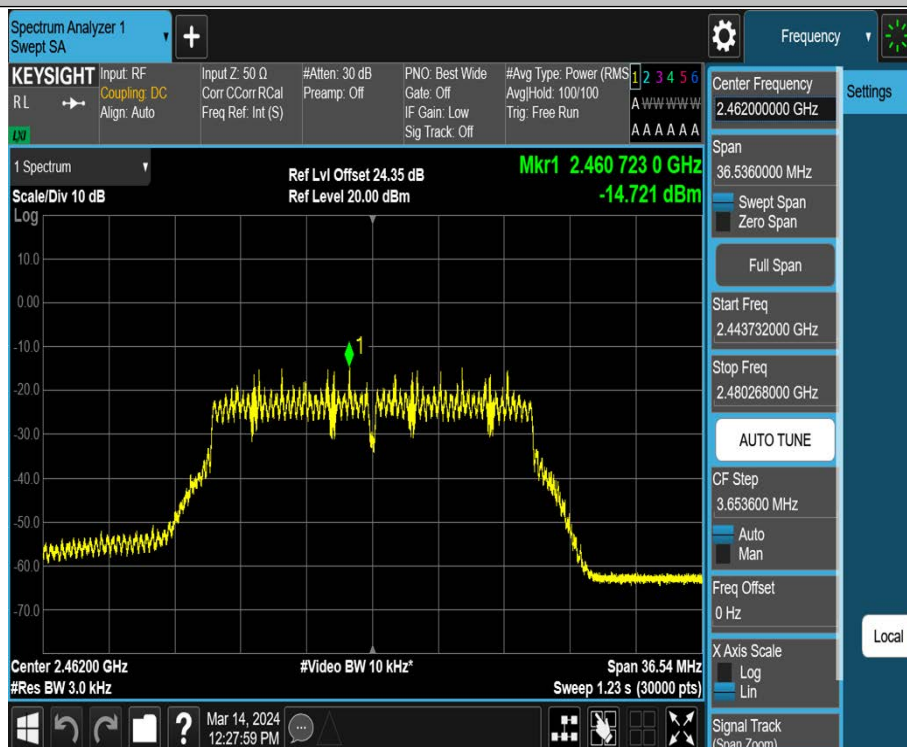
### 11N20MIMO\_Ant4\_2437



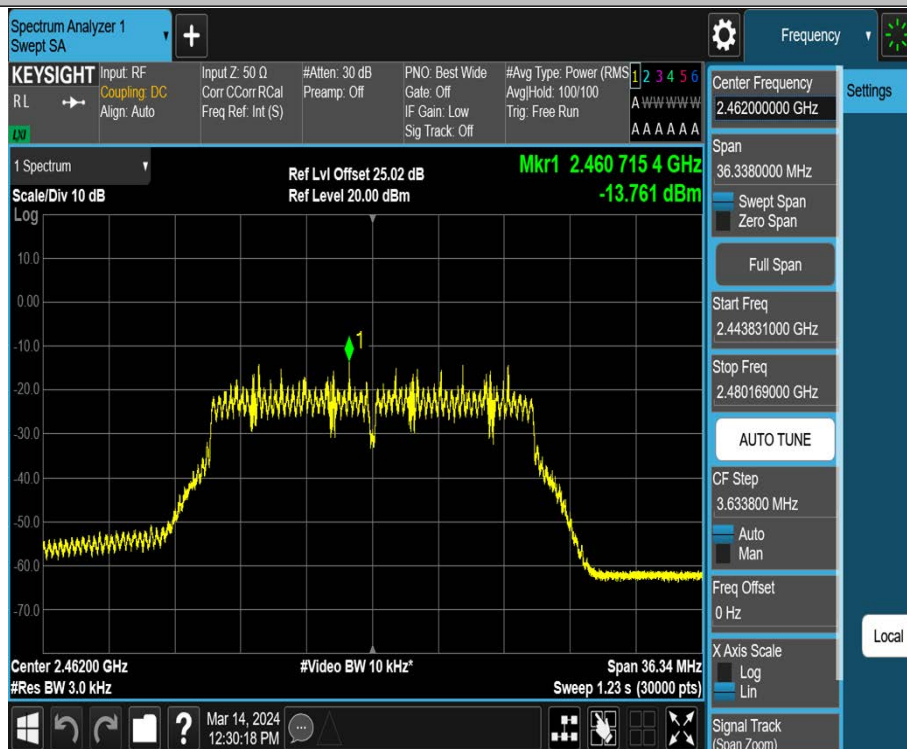
### 11N20MIMO\_Ant1\_2462



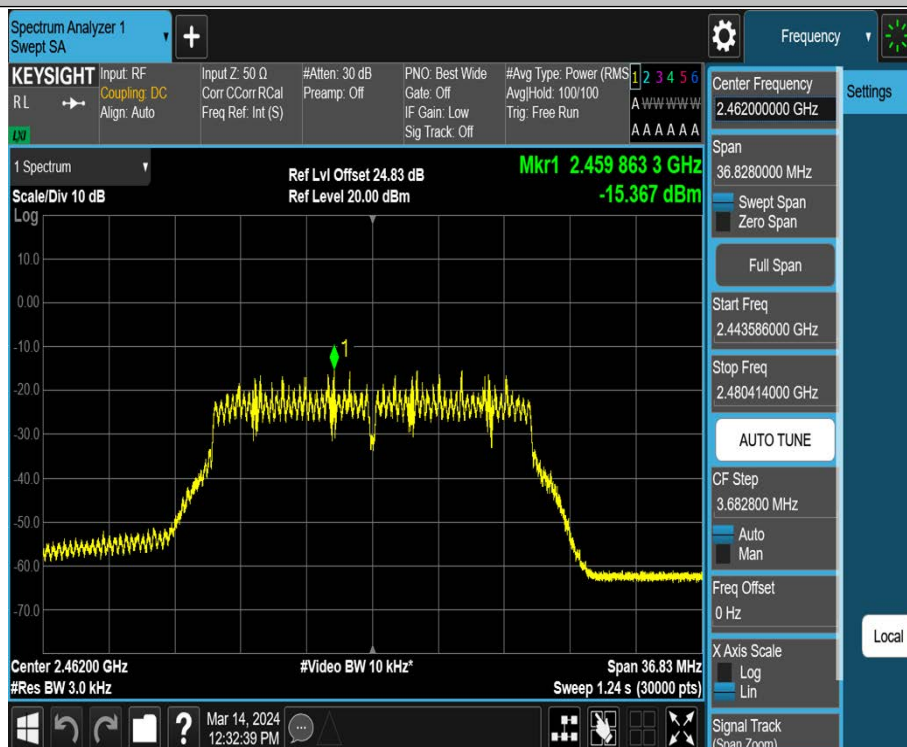
### 11N20MIMO\_Ant2\_2462



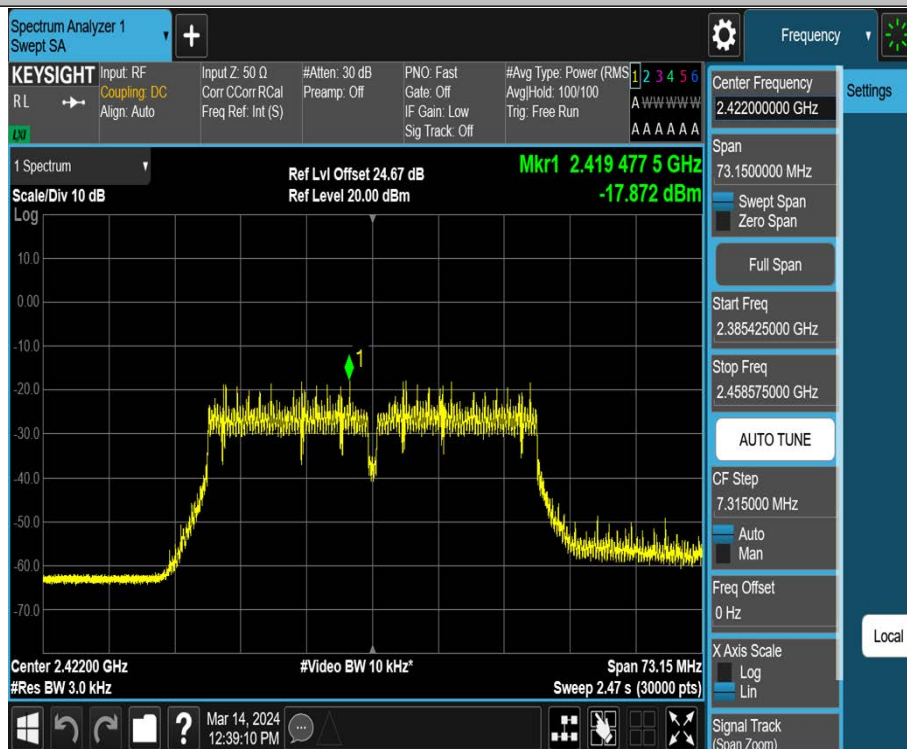
### 11N20MIMO\_Ant3\_2462



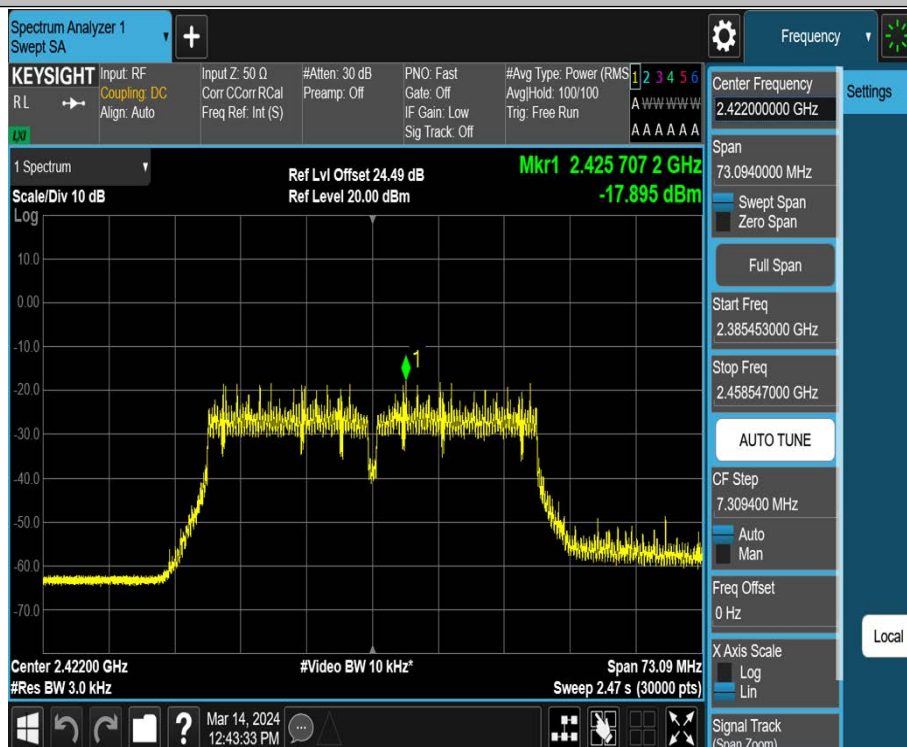
### 11N20MIMO\_Ant4\_2462



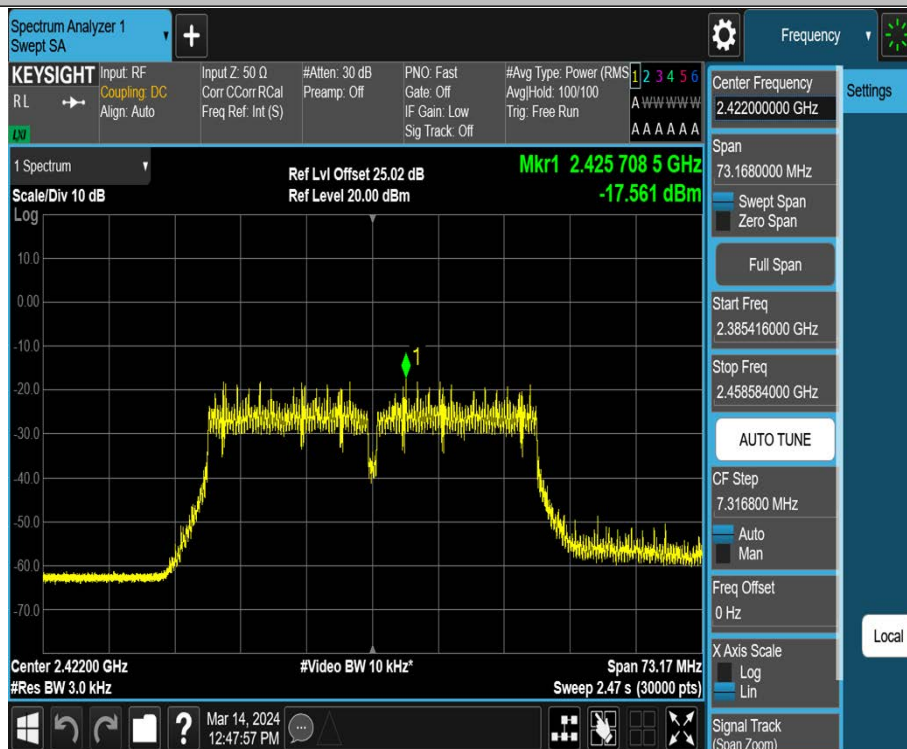
### 11N40MIMO\_Ant1\_2422



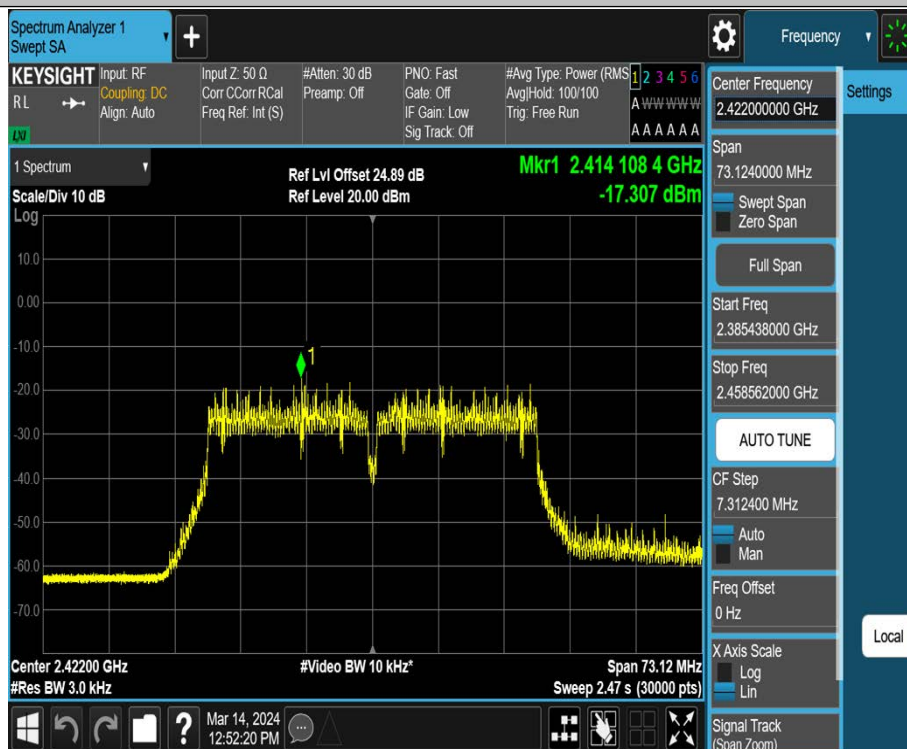
### 11N40MIMO\_Ant2\_2422



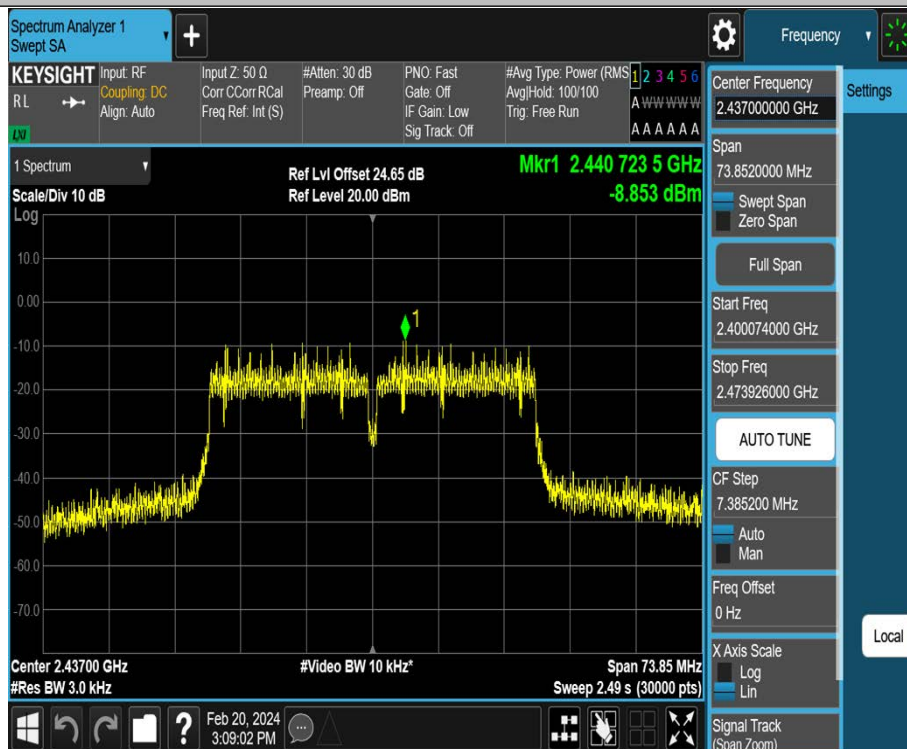
### 11N40MIMO\_Ant3\_2422



### 11N40MIMO\_Ant4\_2422



### 11N40MIMO\_Ant1\_2437



### 11N40MIMO\_Ant2\_2437

