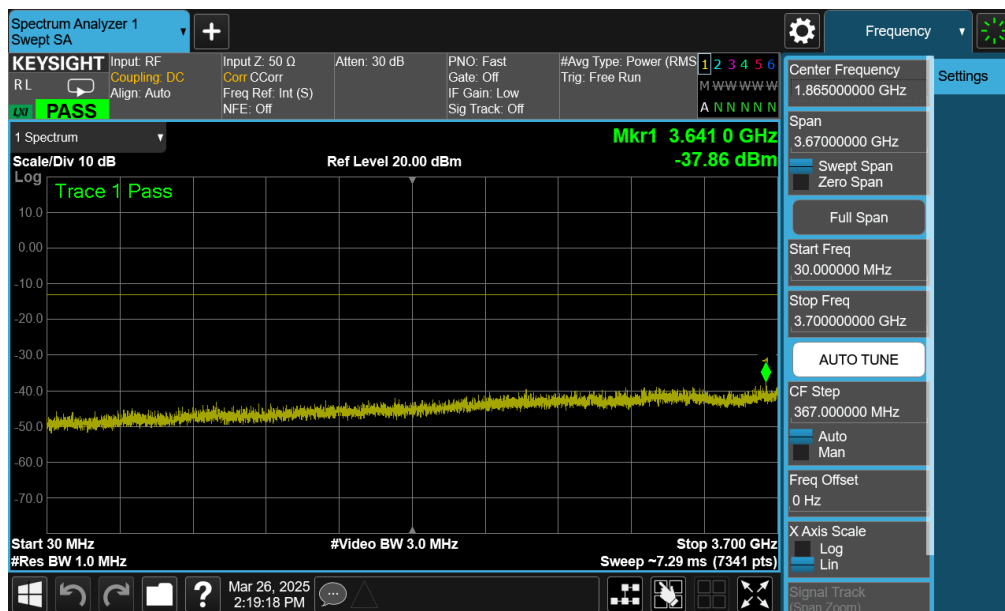
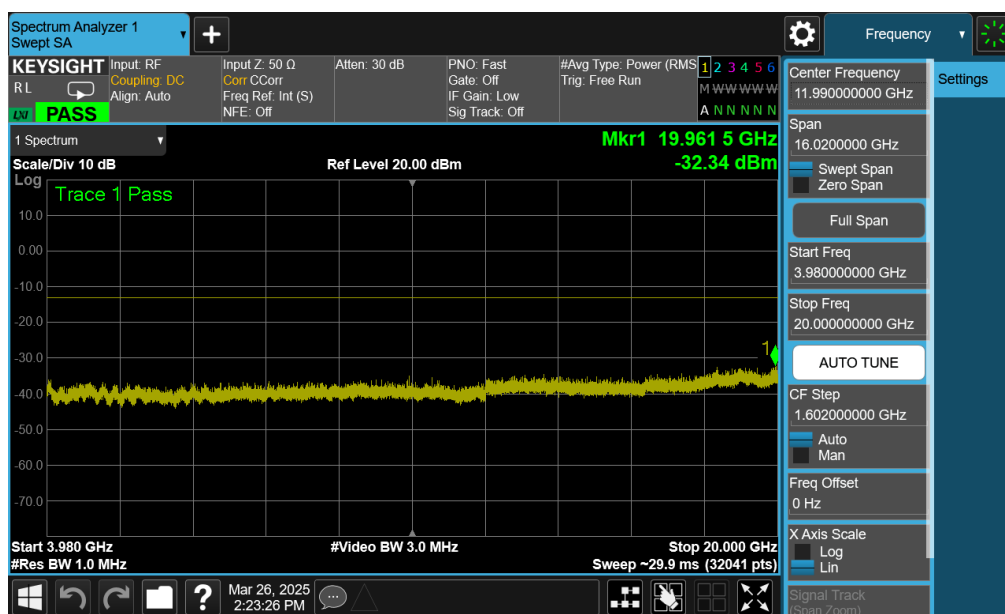


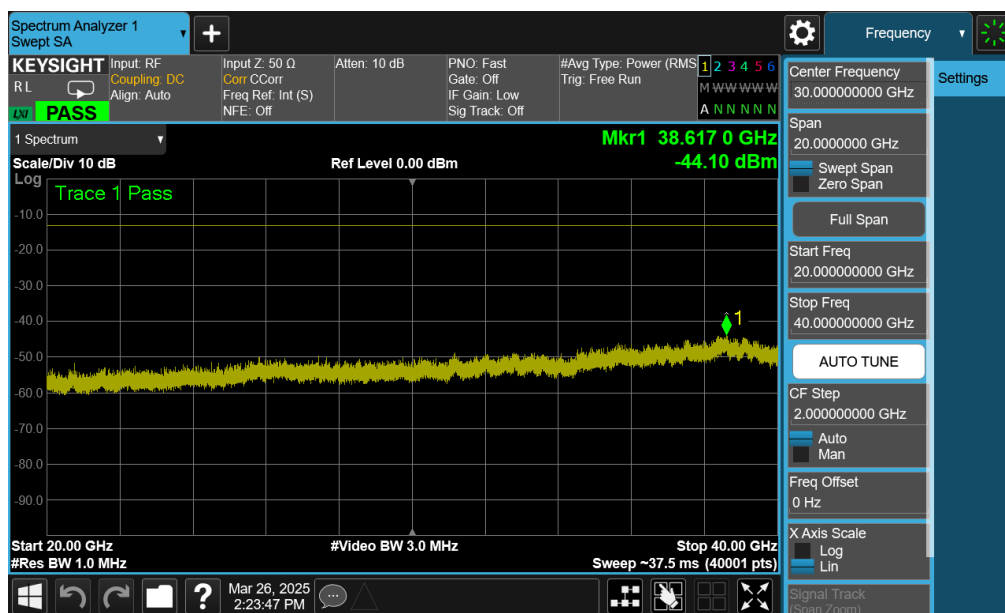


Plot 7-136. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant4 - C-Band - Main)



Plot 7-137. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant4 - C-Band - Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 100 of 171                   |



Plot 7-138. Conducted Spurious Plot (NR Band n77 - 100MHz QPSK - RB Size 1, RB Offset 0 - High Channel - Ant4 - C-Band - Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 101 of 171                   |

## 7.5 Band Edge Emissions at Antenna Terminal

### Test Overview

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

***For operations in the 3700 – 3980MHz band and the 3450 – 3550MHz band, the maximum permissible conducted power level of any out-of-band emission is -13dBm/MHz.***

### Test Procedure Used

ANSI C63.26-2015 – Section 5.7.3

### Test Settings

1. Start and stop frequency were set such that the band edge would be placed in the center of the plot
2. Span was set large enough so as to capture all out of band emissions near the band edge
3. RBW  $\geq$  1% of the emission bandwidth
4. VBW  $\geq$  3 x RBW
5. Detector = RMS
6. Number of sweep points  $\geq$  2 x Span/RBW
7. Trace mode = trace average for continuous emissions, max hold for pulse emissions
8. Sweep time = auto couple
9. The trace was allowed to stabilize

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

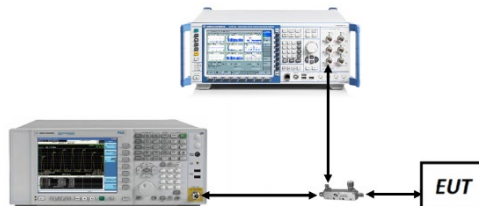


**Figure 7-4. Test Instrument & Measurement Setup**

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 102 of 171                   |

## Test Notes

1. Per Part 27.53(l), compliance with the -13dBm/MHz conducted power limit for out-of-band emissions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz 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.
2. Per Part 27.53(n), compliance with the -13dBm/MHz conducted power limit for out-of-band emissions is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or greater. However, in the 1 MHz 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.
3. 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.
4. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

|                                                |                                             |                                      |                                          |
|------------------------------------------------|---------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966B                      | <b>PART 27 MEASUREMENT REPORT</b>           |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502270019-05.A3L | <b>Test Dates:</b><br>2/24/2025 - 4/30/2025 | <b>EUT Type:</b><br>Portable Handset | Page 103 of 171                          |

| Mode                | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|---------------------|-----------|---------|-----------|-------------|-------------|-------------|
| NR-n77 PC2 DoD Band | 100MHz    | Low     | Band Edge | -34.76      | -13         | -21.76      |
|                     |           | High    | Band Edge | -31.97      | -13         | -18.97      |
|                     | 90MHz     | Low     | Band Edge | -35.03      | -13         | -22.03      |
|                     |           | High    | Band Edge | -32.86      | -13         | -19.86      |
|                     | 80MHz     | Low     | Band Edge | -34.30      | -13         | -21.30      |
|                     |           | High    | Band Edge | -32.32      | -13         | -19.32      |
|                     | 70MHz     | Low     | Band Edge | -33.37      | -13         | -20.37      |
|                     |           | High    | Band Edge | -34.09      | -13         | -21.09      |
|                     | 60MHz     | Low     | Band Edge | -33.28      | -13         | -20.28      |
|                     |           | High    | Band Edge | -33.97      | -13         | -20.97      |
|                     | 50MHz     | Low     | Band Edge | -32.99      | -13         | -19.99      |
|                     |           | High    | Band Edge | -32.64      | -13         | -19.64      |
|                     | 40MHz     | Low     | Band Edge | -31.69      | -13         | -18.69      |
|                     |           | High    | Band Edge | -31.79      | -13         | -18.79      |
|                     | 30MHz     | Low     | Band Edge | -30.68      | -13         | -17.68      |
|                     |           | High    | Band Edge | -30.17      | -13         | -17.17      |
|                     | 25MHz     | Low     | Band Edge | -30.45      | -13         | -17.45      |
|                     |           | High    | Band Edge | -29.24      | -13         | -16.24      |
|                     | 20MHz     | Low     | Band Edge | -30.78      | -13         | -17.78      |
|                     |           | High    | Band Edge | -31.02      | -13         | -18.02      |
|                     | 15MHz     | Low     | Band Edge | -29.92      | -13         | -16.92      |
|                     |           | High    | Band Edge | -29.18      | -13         | -16.18      |
|                     | 10MHz     | Low     | Band Edge | -28.98      | -13         | -15.98      |
|                     |           | High    | Band Edge | -29.24      | -13         | -16.24      |

Table 7-18. Conducted Band Edge Results - Ant1 - DoD Band – Main

| Mode                | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|---------------------|-----------|---------|-----------|-------------|-------------|-------------|
| NR-n77 PC2 DoD Band | 100MHz    | Low     | Band Edge | -31.26      | -13         | -18.26      |
|                     |           | High    | Band Edge | -31.62      | -13         | -18.62      |

Table 7-19. Conducted Band Edge Results – Ant2 - DoD Band - Main

| Mode                | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|---------------------|-----------|---------|-----------|-------------|-------------|-------------|
| NR-n77 PC2 DoD Band | 100MHz    | Low     | Band Edge | -27.48      | -13         | -14.48      |
|                     |           | High    | Band Edge | -27.17      | -13         | -14.17      |

Table 7-20. Conducted Band Edge Results – Ant3 - DoD Band - Main

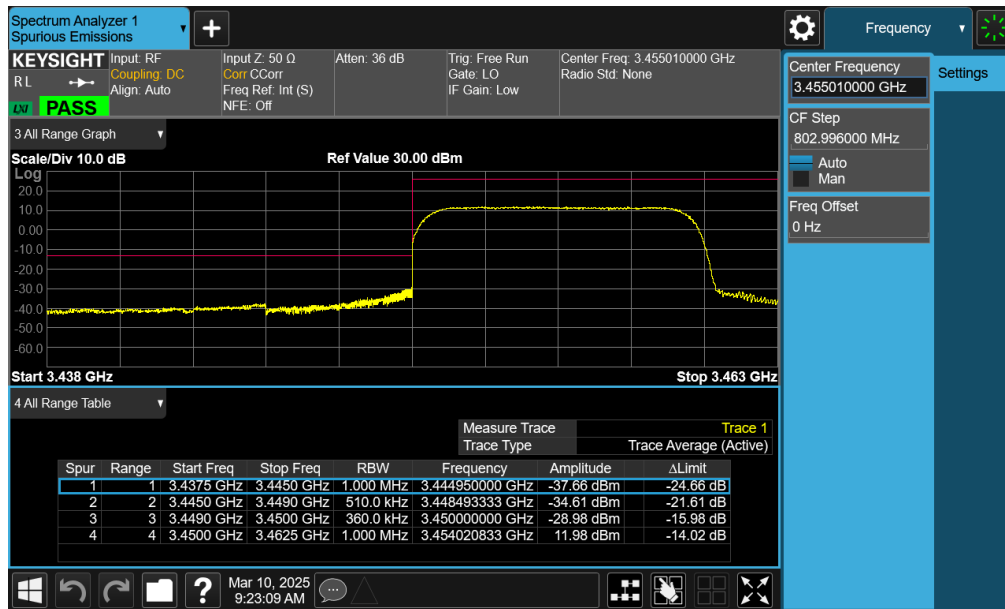
|                                         |                                      |                               |  |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|--|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset |  | Page 104 of 171                   |

| Mode                   | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|------------------------|-----------|---------|-----------|-------------|-------------|-------------|
| NR-n77 PC2<br>DoD Band | 100MHz    | Low     | Band Edge | -33.01      | -13         | -20.01      |
|                        |           | High    | Band Edge | -33.68      | -13         | -20.68      |

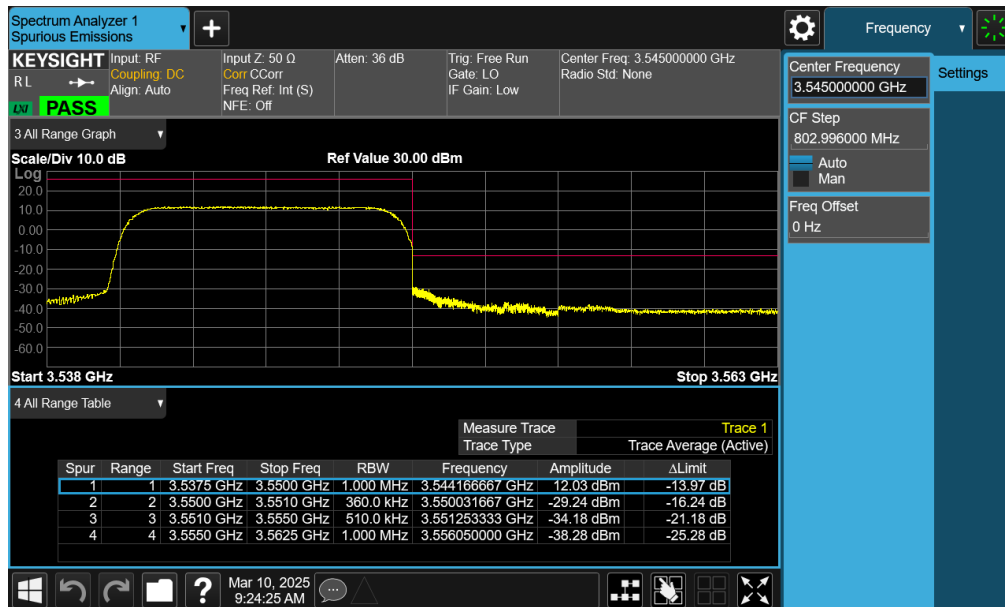
**Table 7-21. Conducted Band Edge Results – Ant4 - DoD Band - Main**

|                                                |                                             |                                      |                                          |
|------------------------------------------------|---------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966B                      | <b>PART 27 MEASUREMENT REPORT</b>           |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502270019-05.A3L | <b>Test Dates:</b><br>2/24/2025 - 4/30/2025 | <b>EUT Type:</b><br>Portable Handset | Page 105 of 171                          |

## NR Band n77 – Ant1 – DoD Band – Main



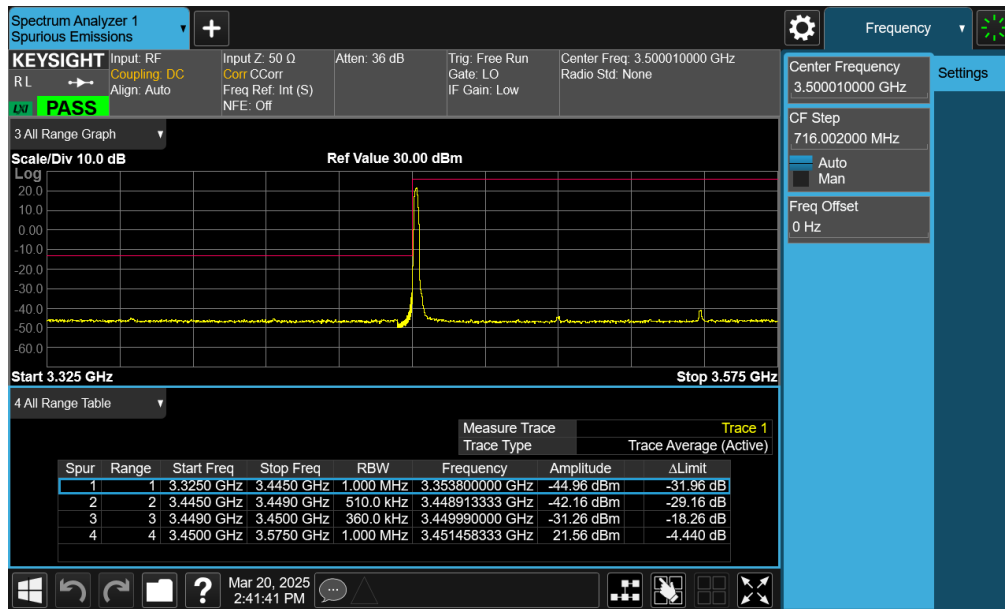
Plot 7-139. Lower ACP Plot (NR Band n77 - 10MHz CP-OFDM-QPSK – Full RB – Ant1 – DoD Band - Main)



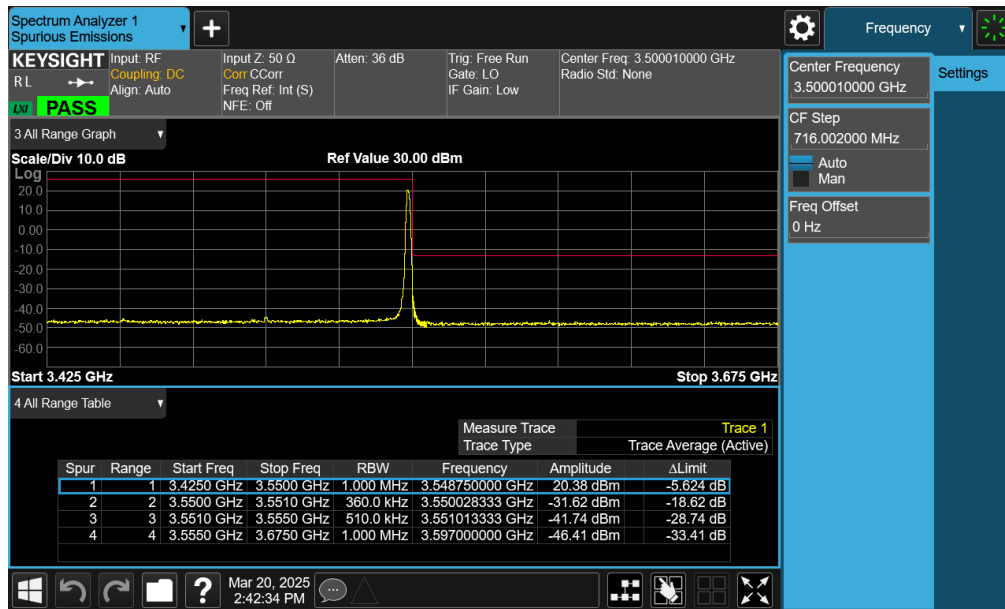
Plot 7-140. Upper ACP Plot (NR Band n77 - 10MHz CP-OFDM-QPSK – Full RB – Ant1 – DoD Band - Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 106 of 171                   |

## NR Band n77 – Ant2 – DoD Band – Main



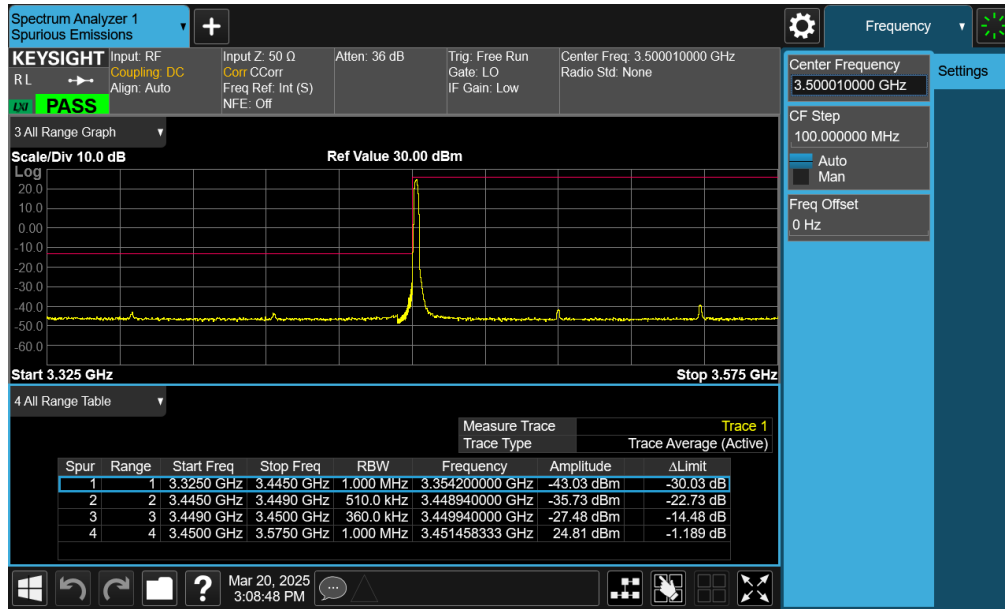
Plot 7-141. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – 1 RB – Ant2 – DoD Band - Main)



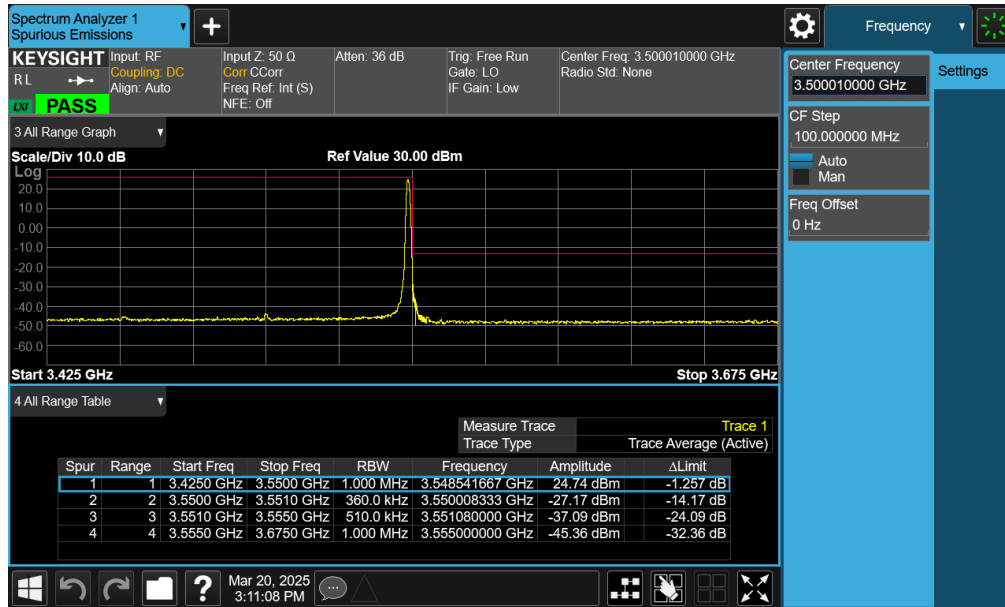
Plot 7-142. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – 1 RB – Ant2 – DoD Band - Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 107 of 171                   |

## NR Band n77 – Ant3 – DoD Band – Main



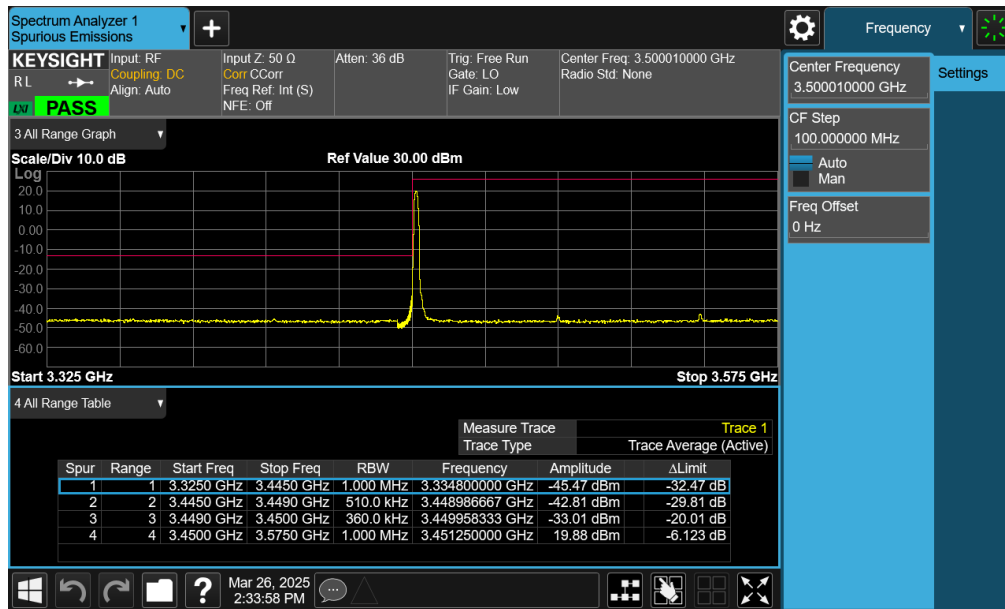
Plot 7-143. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – 1 RB – Ant3 – DoD Band - Main)



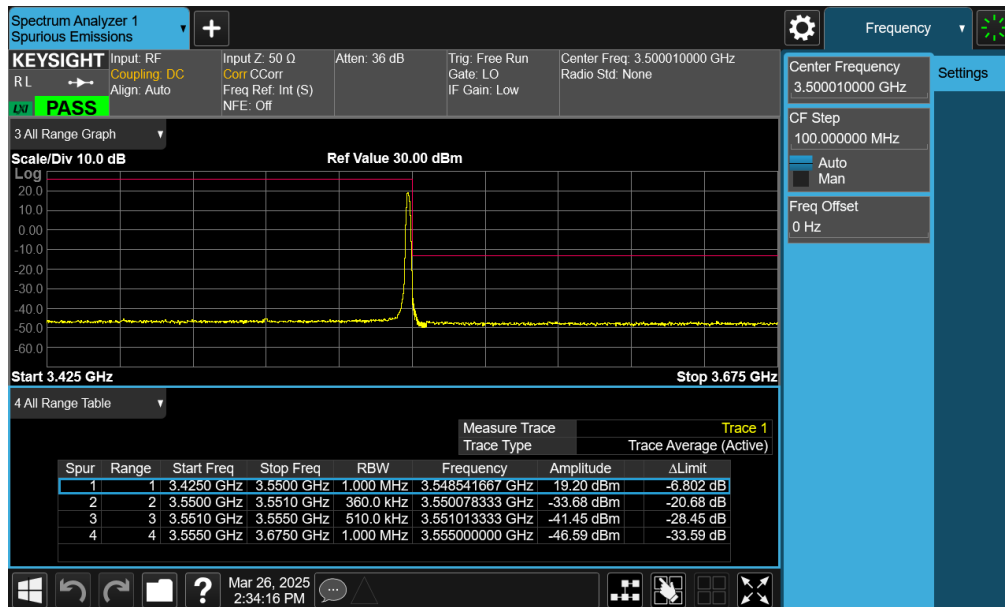
Plot 7-144. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – 1 RB – Ant3 – DoD Band - Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 108 of 171                   |

## NR Band n77 – Ant4 – DoD Band – Main



Plot 7-145. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – 1 RB – Ant4 – DoD Band - Main)



Plot 7-146. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – 1 RB – Ant4 – DoD Band - Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 109 of 171                   |

| Mode                 | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|----------------------|-----------|---------|-----------|-------------|-------------|-------------|
| NR-n77 PC2<br>C Band | 100MHz    | Low     | Band Edge | -23.00      | -13         | -10.00      |
|                      |           | High    | Band Edge | -32.33      | -13         | -19.33      |
|                      | 90MHz     | Low     | Band Edge | -36.30      | -13         | -23.30      |
|                      |           | High    | Band Edge | -34.47      | -13         | -21.47      |
|                      | 80MHz     | Low     | Band Edge | -34.76      | -13         | -21.76      |
|                      |           | High    | Band Edge | -32.88      | -13         | -19.88      |
|                      | 70MHz     | Low     | Band Edge | -36.28      | -13         | -23.28      |
|                      |           | High    | Band Edge | -33.76      | -13         | -20.76      |
|                      | 60MHz     | Low     | Band Edge | -32.77      | -13         | -19.77      |
|                      |           | High    | Band Edge | -31.78      | -13         | -18.78      |
|                      | 50MHz     | Low     | Band Edge | -33.04      | -13         | -20.04      |
|                      |           | High    | Band Edge | -32.67      | -13         | -19.67      |
|                      | 40MHz     | Low     | Band Edge | -31.70      | -13         | -18.70      |
|                      |           | High    | Band Edge | -32.06      | -13         | -19.06      |
|                      | 30MHz     | Low     | Band Edge | -29.90      | -13         | -16.90      |
|                      |           | High    | Band Edge | -29.86      | -13         | -16.86      |
|                      | 25MHz     | Low     | Band Edge | -31.06      | -13         | -18.06      |
|                      |           | High    | Band Edge | -30.69      | -13         | -17.69      |
|                      | 20MHz     | Low     | Band Edge | -30.90      | -13         | -17.90      |
|                      |           | High    | Band Edge | -30.58      | -13         | -17.58      |
|                      | 15MHz     | Low     | Band Edge | -29.93      | -13         | -16.93      |
|                      |           | High    | Band Edge | -28.59      | -13         | -15.59      |
|                      | 10MHz     | Low     | Band Edge | -28.59      | -13         | -15.59      |
|                      |           | High    | Band Edge | -28.16      | -13         | -15.16      |

Table 7-22. Conducted Band Edge Results - Ant1 – C-Band – Main

| Mode                 | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|----------------------|-----------|---------|-----------|-------------|-------------|-------------|
| NR-n77 PC2<br>C Band | 100MHz    | Low     | Band Edge | -31.24      | -13         | -18.24      |
|                      |           | High    | Band Edge | -34.88      | -13         | -21.88      |

Table 7-23. Conducted Band Edge Results – Ant2 - C-Band - Main

| Mode                 | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|----------------------|-----------|---------|-----------|-------------|-------------|-------------|
| NR-n77 PC2<br>C Band | 100MHz    | Low     | Band Edge | -27.40      | -13         | -14.40      |
|                      |           | High    | Band Edge | -31.54      | -13         | -18.54      |

Table 7-24. Conducted Band Edge Results – Ant3 - C-Band - Main

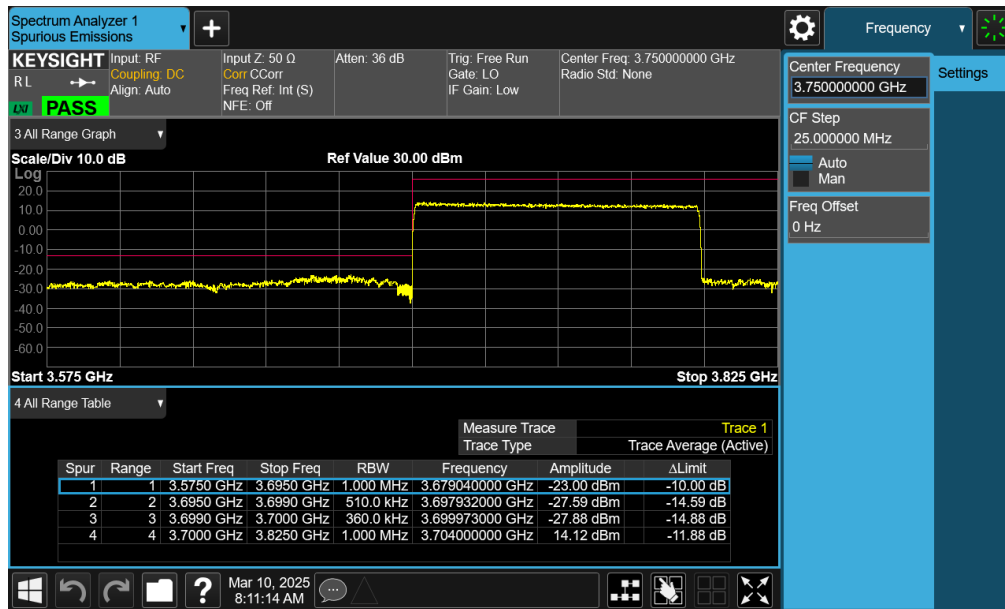
|                                         |                                      |                               |  |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|--|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               |  | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset |  | Page 110 of 171                   |

| Mode                 | Bandwidth | Channel | Test Case | Level [dBm] | Limit [dBm] | Margin [dB] |
|----------------------|-----------|---------|-----------|-------------|-------------|-------------|
| NR-n77 PC2<br>C Band | 100MHz    | Low     | Band Edge | -32.56      | -13         | -19.56      |
|                      |           | High    | Band Edge | -36.17      | -13         | -23.17      |

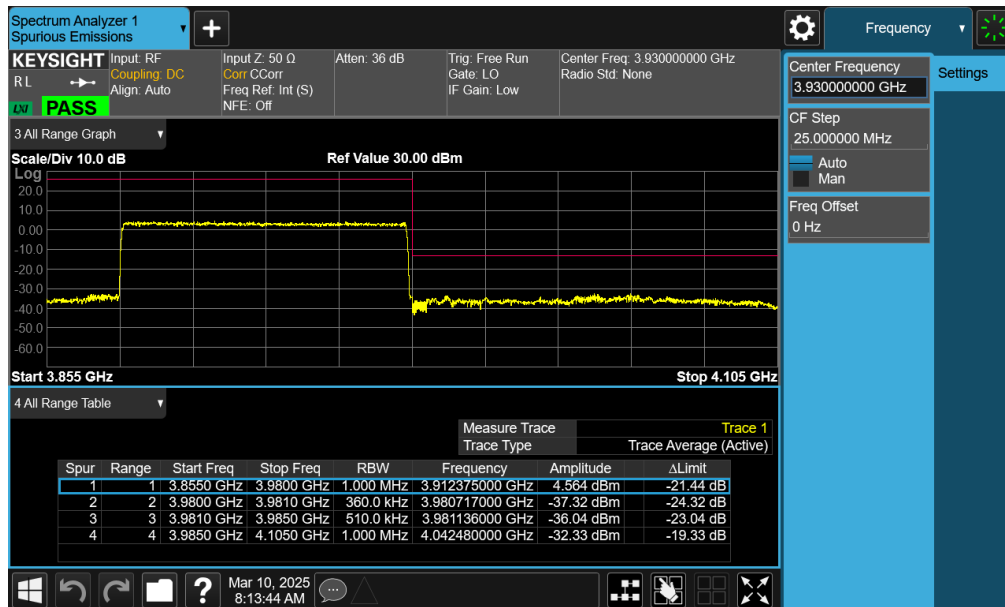
**Table 7-25. Conducted Band Edge Results – Ant4 - C-Band - Main**

|                                                |                                             |                                      |                                          |
|------------------------------------------------|---------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966B                      | <b>PART 27 MEASUREMENT REPORT</b>           |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502270019-05.A3L | <b>Test Dates:</b><br>2/24/2025 - 4/30/2025 | <b>EUT Type:</b><br>Portable Handset | Page 111 of 171                          |

## NR Band n77 – Ant1 – C-Band – Main



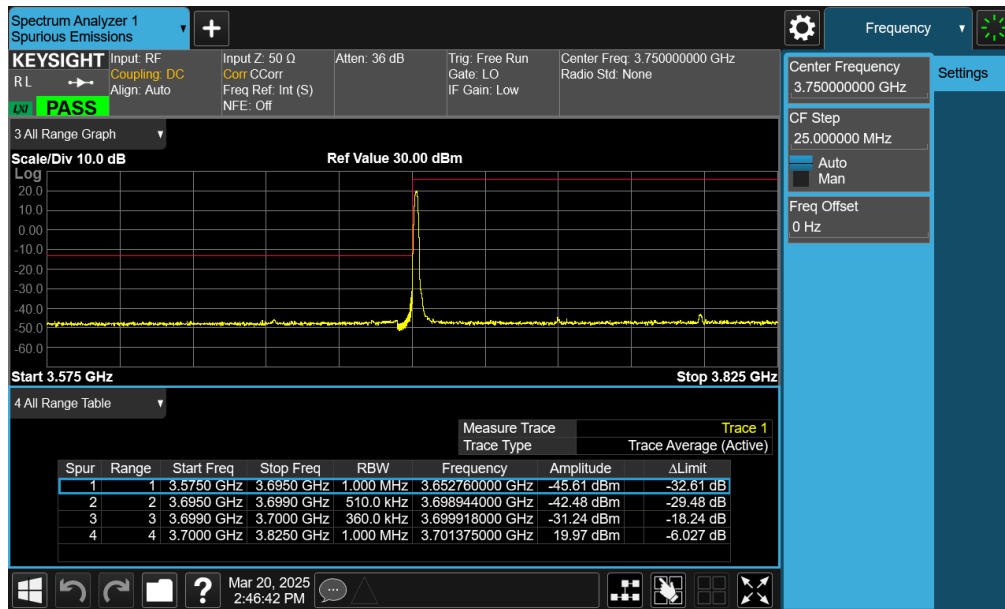
Plot 7-147. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB – Ant1 – C-Band - Main)



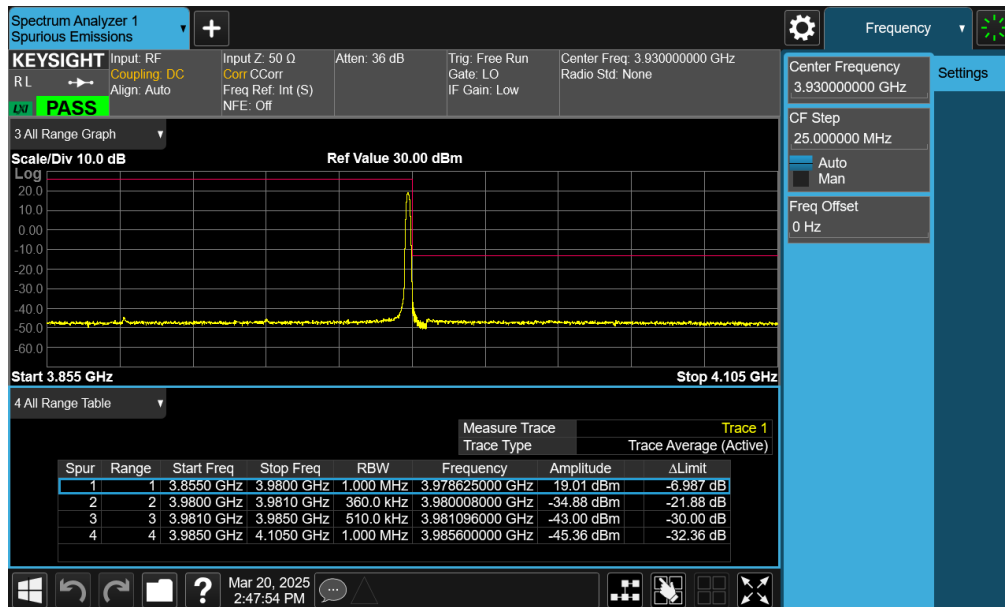
Plot 7-148. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – Full RB – Ant1 – C-Band - Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 112 of 171                   |

## NR Band n77 – Ant2 – C-Band – Main



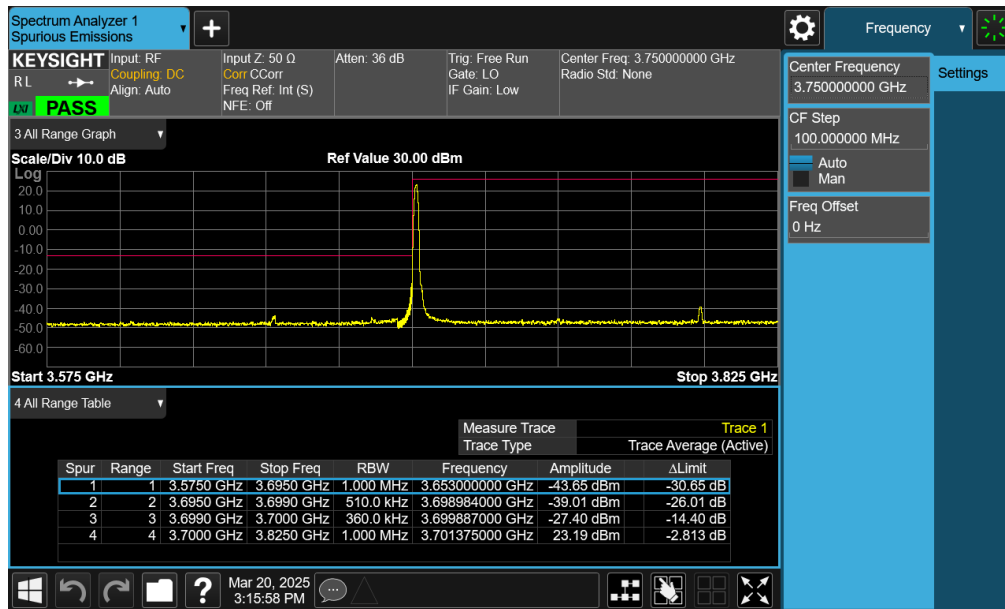
Plot 7-149. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – 1 RB – Ant2 – C-Band - Main)



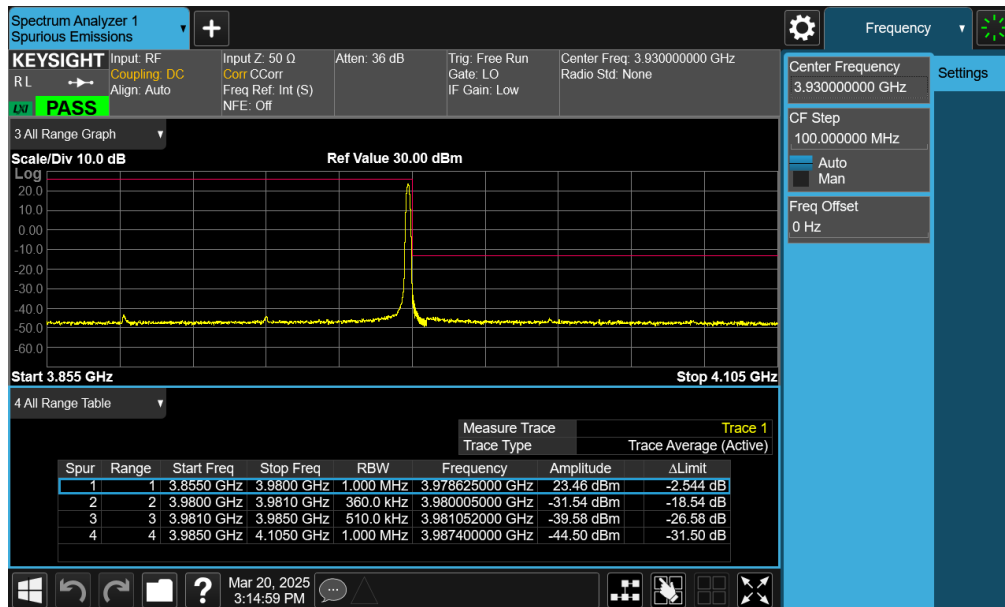
Plot 7-150. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – 1 RB – Ant2 – C-Band - Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 113 of 171                   |

## NR Band n77 – Ant3 – C-Band – Main



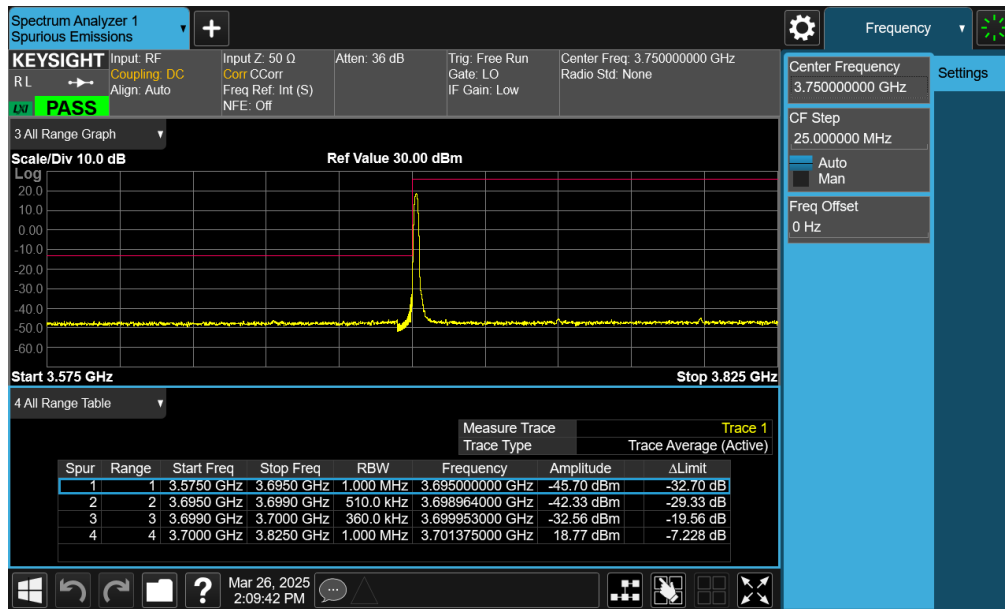
Plot 7-151. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – 1 RB – Ant3 – C-Band - Main)



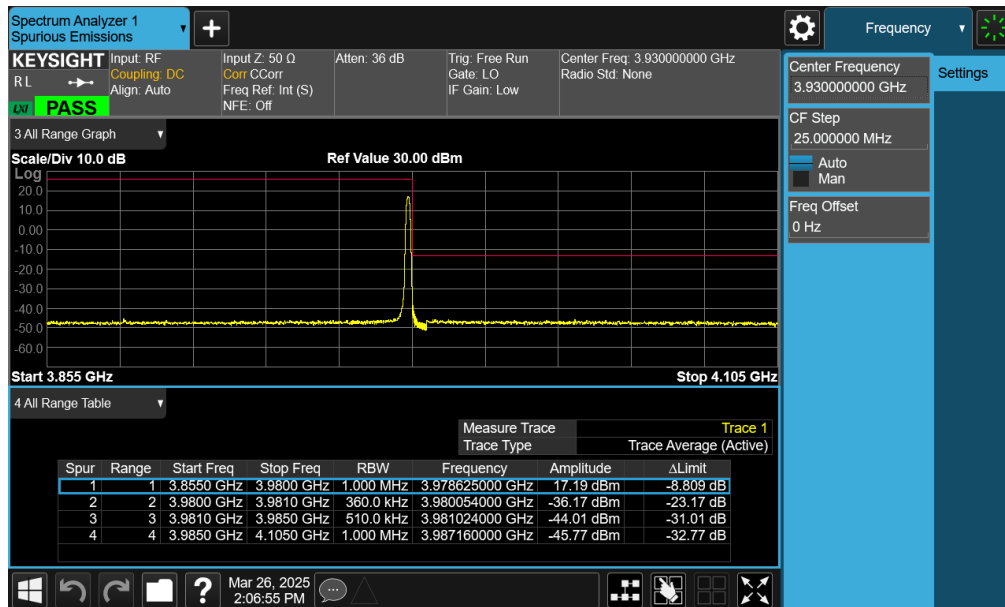
Plot 7-152. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – 1 RB – Ant3 – C-Band - Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 114 of 171                   |

## NR Band n77 – Ant4 – C-Band – Main



Plot 7-153. Lower ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – 1 RB – Ant4 – C-Band - Main)



Plot 7-154. Upper ACP Plot (NR Band n77 - 100MHz CP-OFDM-QPSK – 1 RB – Ant4 – C-Band - Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 115 of 171                   |

## 7.6 Peak-Average Ratio

### Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

***The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB.***

### Test Procedure Used

ANSI C63.26-2015 – Section 5.2.3.4

### Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW  $\geq$  OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

### Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

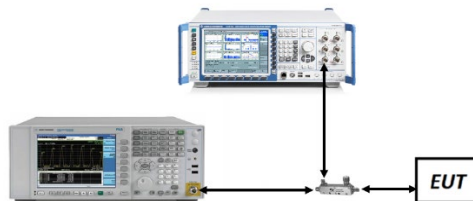


**Figure 7-5. Test Instrument & Measurement Setup**

### Test Notes

For the QAM modulations, 256QAM was found to have the worst-case peak-to-average ratio so it is the only QAM measurement included in this section.

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 116 of 171                   |

| Mode                  | Bandwidth | Modulation   | Average Power [dBm] | PAR at 0.1% [dB] | PAR Limit [dB] | Margin [dB] |
|-----------------------|-----------|--------------|---------------------|------------------|----------------|-------------|
| NR-n77PC2<br>DoD Band | 100MHz    | $\pi/2$ BPSK | 25.83               | 4.28             | 13             | -8.724      |
|                       |           | QPSK         | 23.24               | 6.87             | 13             | -6.128      |
|                       |           | 256QAM       | 19.77               | 8.36             | 13             | -4.639      |
|                       | 90MHz     | $\pi/2$ BPSK | 25.88               | 4.48             | 13             | -8.521      |
|                       |           | QPSK         | 23.49               | 7.41             | 13             | -5.594      |
|                       |           | 256QAM       | 19.68               | 8.33             | 13             | -4.670      |
|                       | 80MHz     | $\pi/2$ BPSK | 25.76               | 4.22             | 13             | -8.780      |
|                       |           | QPSK         | 23.23               | 6.76             | 13             | -6.240      |
|                       |           | 256QAM       | 19.83               | 8.34             | 13             | -4.656      |
|                       | 70MHz     | $\pi/2$ BPSK | 23.24               | 6.68             | 13             | -6.320      |
|                       |           | QPSK         | 23.27               | 6.70             | 13             | -6.297      |
|                       |           | 256QAM       | 19.75               | 8.35             | 13             | -4.648      |
|                       | 60MHz     | $\pi/2$ BPSK | 25.47               | 3.95             | 13             | -9.052      |
|                       |           | QPSK         | 23.05               | 6.69             | 13             | -6.313      |
|                       |           | 256QAM       | 19.53               | 8.34             | 13             | -4.659      |
|                       | 50MHz     | $\pi/2$ BPSK | 25.80               | 4.02             | 13             | -8.979      |
|                       |           | QPSK         | 23.22               | 6.60             | 13             | -6.404      |
|                       |           | 256QAM       | 19.72               | 8.35             | 13             | -4.653      |
|                       | 40MHz     | $\pi/2$ BPSK | 25.64               | 3.79             | 13             | -9.211      |
|                       |           | QPSK         | 23.07               | 6.47             | 13             | -6.528      |
|                       |           | 256QAM       | 19.47               | 8.36             | 13             | -4.639      |
|                       | 30MHz     | $\pi/2$ BPSK | 25.61               | 3.83             | 13             | -9.173      |
|                       |           | QPSK         | 23.00               | 6.51             | 13             | -6.486      |
|                       |           | 256QAM       | 19.56               | 8.35             | 13             | -4.653      |
|                       | 25MHz     | $\pi/2$ BPSK | 25.45               | 3.94             | 13             | -9.064      |
|                       |           | QPSK         | 22.87               | 6.65             | 13             | -6.348      |
|                       |           | 256QAM       | 19.50               | 8.41             | 13             | -4.593      |
|                       | 20MHz     | $\pi/2$ BPSK | 25.34               | 3.84             | 13             | -9.160      |
|                       |           | QPSK         | 22.85               | 6.45             | 13             | -6.550      |
|                       |           | 256QAM       | 19.26               | 8.36             | 13             | -4.638      |
|                       | 15MHz     | $\pi/2$ BPSK | 25.36               | 3.85             | 13             | -9.152      |
|                       |           | QPSK         | 22.77               | 6.48             | 13             | -6.521      |
|                       |           | 256QAM       | 19.24               | 8.35             | 13             | -4.653      |
|                       | 10MHz     | $\pi/2$ BPSK | 25.33               | 3.91             | 13             | -9.087      |
|                       |           | QPSK         | 22.82               | 6.63             | 13             | -6.372      |
|                       |           | 256QAM       | 19.42               | 8.54             | 13             | -4.457      |

**Table 7-26. PAR Results - Ant1 - DoD Band – Main**

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 117 of 171                   |

| Mode               | Bandwidth | Modulation   | Average Power [dBm] | PAR at 0.1% [dB] | PAR Limit [dB] | Margin [dB] |
|--------------------|-----------|--------------|---------------------|------------------|----------------|-------------|
| NR-n77PC2 DoD Band | 100MHz    | $\pi/2$ BPSK | 20.99               | 1.47             | 13             | -11.53      |
|                    |           | QPSK         | 19.46               | 3.03             | 13             | -9.97       |
|                    |           | 256QAM       | 14.08               | 5.80             | 13             | -7.20       |

Table 7-27. PAR Results – Ant2 - DoD Band - Main

| Mode               | Bandwidth | Modulation   | Average Power [dBm] | PAR at 0.1% [dB] | PAR Limit [dB] | Margin [dB] |
|--------------------|-----------|--------------|---------------------|------------------|----------------|-------------|
| NR-n77PC2 DoD Band | 100MHz    | $\pi/2$ BPSK | 24.96               | 1.42             | 13             | -11.58      |
|                    |           | QPSK         | 24.36               | 2.59             | 13             | -10.41      |
|                    |           | 256QAM       | 19.31               | 4.46             | 13             | -8.54       |

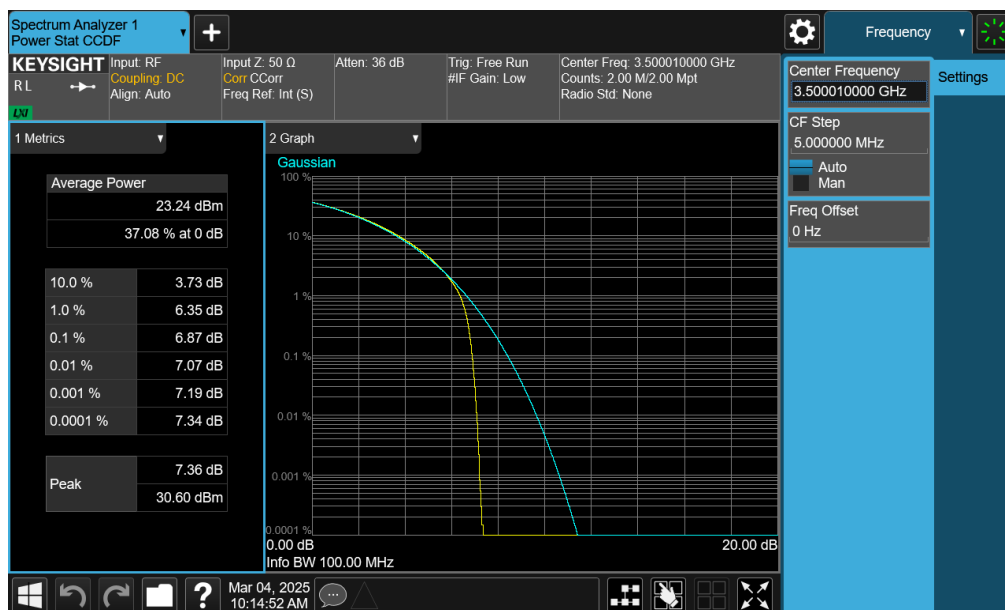
Table 7-28. PAR Results – Ant3 - DoD Band - Main

| Mode               | Bandwidth | Modulation   | Average Power [dBm] | PAR at 0.1% [dB] | PAR Limit [dB] | Margin [dB] |
|--------------------|-----------|--------------|---------------------|------------------|----------------|-------------|
| NR-n77PC2 DoD Band | 100MHz    | $\pi/2$ BPSK | 19.75               | 1.45             | 13             | -11.55      |
|                    |           | QPSK         | 18.25               | 3.25             | 13             | -9.75       |
|                    |           | 256QAM       | 12.93               | 5.57             | 13             | -7.43       |

Table 7-29. PAR Results – Ant4 - DoD Band - Main

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 118 of 171                   |

## NR Band n77 – Ant1 – DoD Band – Main



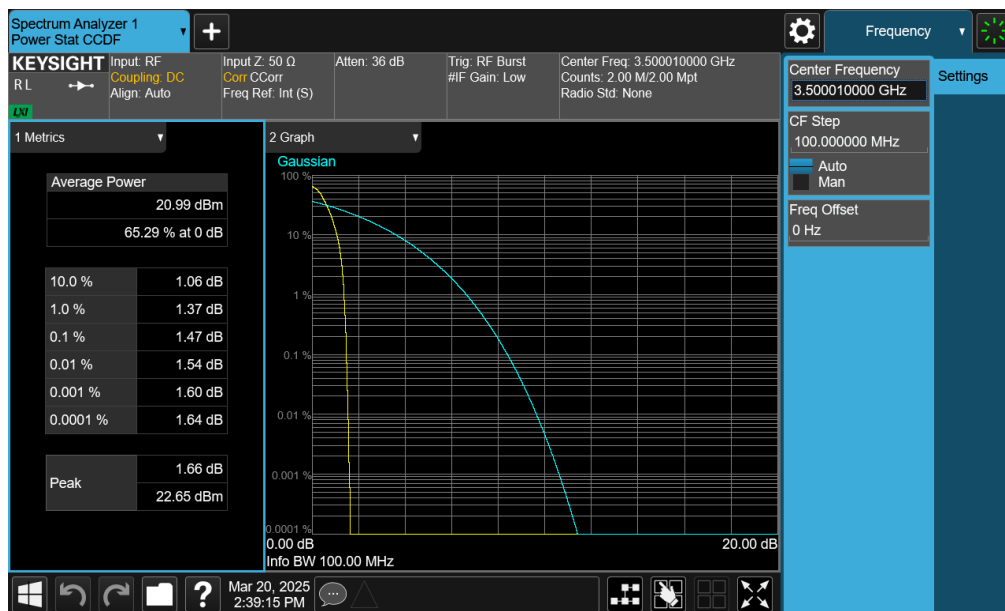
|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 119 of 171                   |



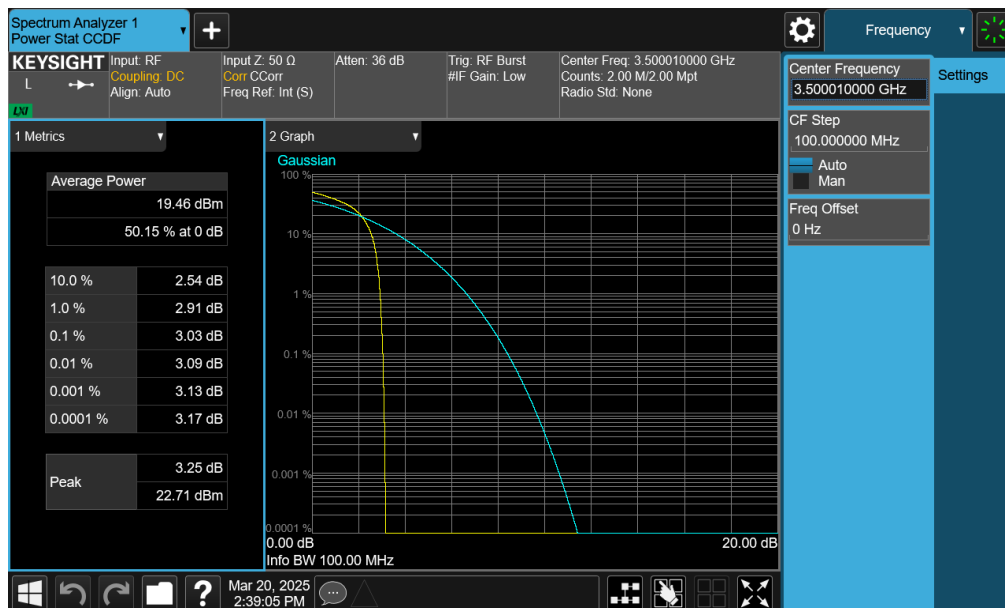
**Plot 7-157. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - Full RB - Ant1 – DoD Band – Main)**

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 120 of 171                   |

## NR Band n77 – Ant2 – DoD Band – Main

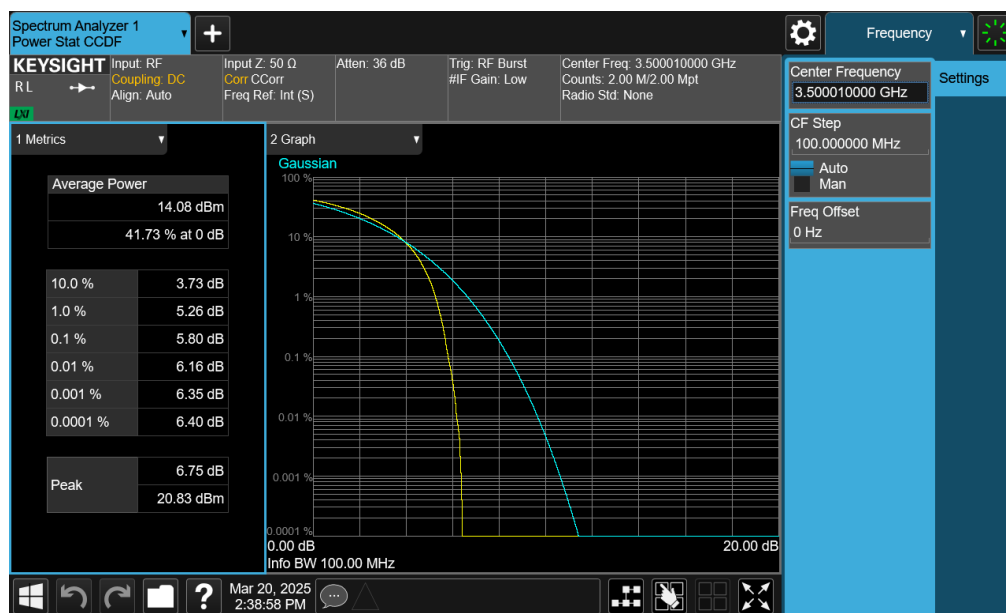


Plot 7-158. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM BPSK - 1 RB - Ant2 – DoD Band – Main)



Plot 7-159. PAR Plot (NR Band n77 - 100MHz CP-OFDM QPSK - 1 RB - Ant2 – DoD Band – Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 121 of 171                   |



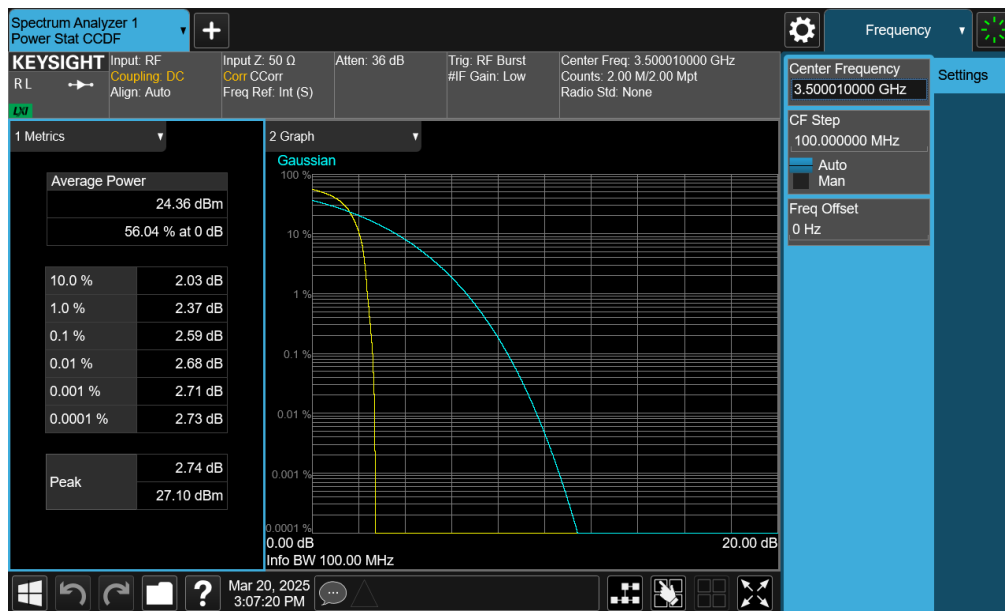
Plot 7-160. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - 1 RB - Ant2 – DoD Band – Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 122 of 171                   |

## NR Band n77 – Ant3 – DoD Band – Main



Plot 7-161. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM BPSK - 1 RB - Ant3 – DoD Band – Main)



Plot 7-162. PAR Plot (NR Band n77 - 100MHz CP-OFDM QPSK - 1 RB - Ant3 – DoD Band – Main)

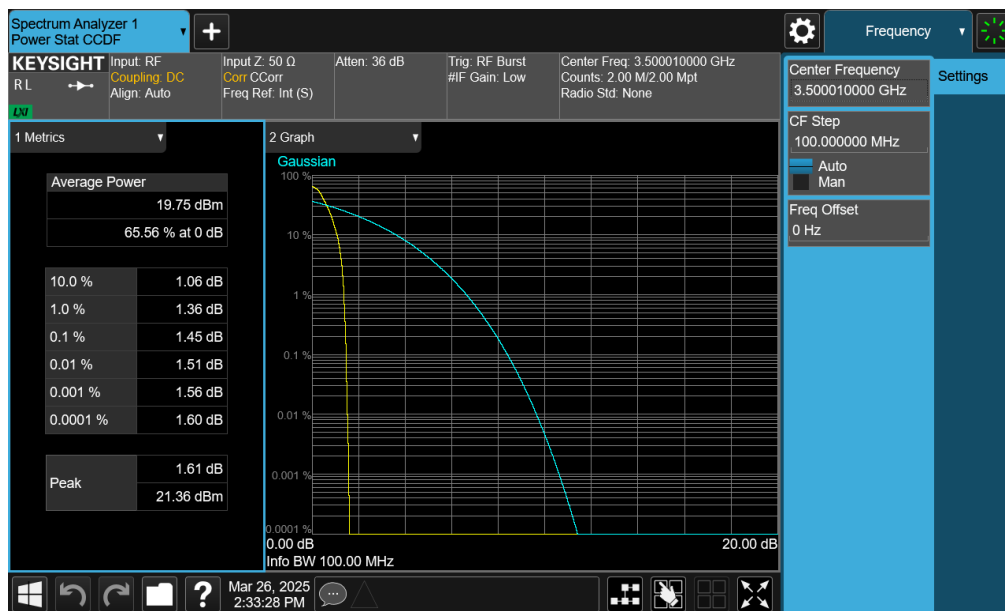
|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 123 of 171                   |



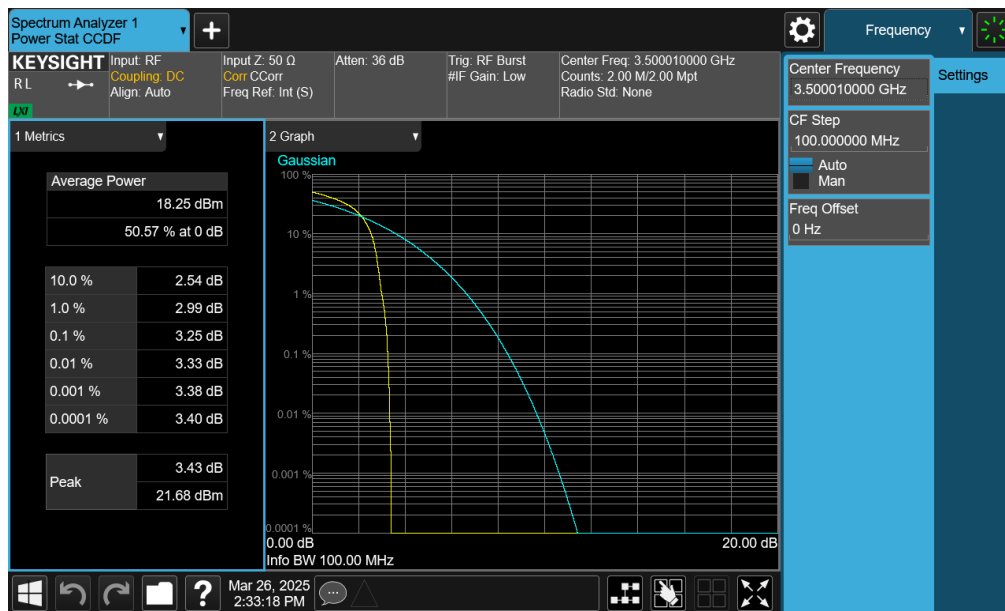
Plot 7-163. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - 1 RB - Ant3 – DoD Band – Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 124 of 171                   |

## NR Band n77 – Ant4 – DoD Band – Main

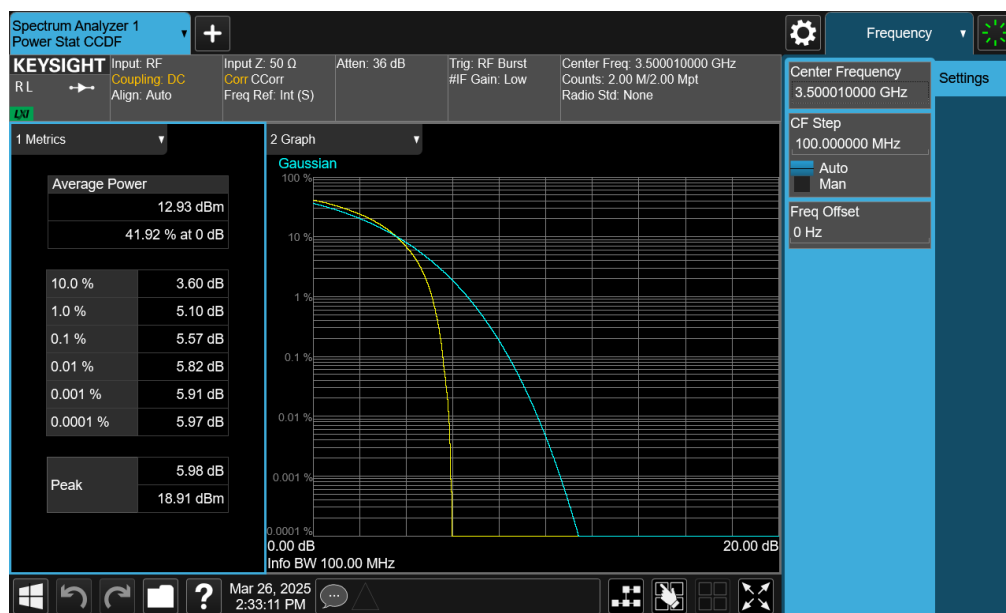


Plot 7-164. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM BPSK - 1 RB - Ant4 – DoD Band – Main)



Plot 7-165. PAR Plot (NR Band n77 - 100MHz CP-OFDM QPSK - 1 RB - Ant4 – DoD Band – Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 125 of 171                   |



Plot 7-166. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - 1 RB - Ant4 – DoD Band – Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 126 of 171                   |

| Mode                | Bandwidth | Modulation   | Average Power [dBm] | PAR at 0.1% [dB] | PAR Limit [dB] | Margin [dB] |
|---------------------|-----------|--------------|---------------------|------------------|----------------|-------------|
| NR-n77PC2<br>C-Band | 100MHz    | $\pi/2$ BPSK | 25.37               | 4.39             | 13             | -8.611      |
|                     |           | QPSK         | 22.83               | 6.76             | 13             | -6.243      |
|                     |           | 256QAM       | 22.39               | 7.26             | 13             | -5.743      |
|                     | 90MHz     | $\pi/2$ BPSK | 25.36               | 3.94             | 13             | -9.063      |
|                     |           | QPSK         | 22.80               | 6.66             | 13             | -6.337      |
|                     |           | 256QAM       | 19.63               | 8.36             | 13             | -4.642      |
|                     | 80MHz     | $\pi/2$ BPSK | 25.37               | 4.09             | 13             | -8.914      |
|                     |           | QPSK         | 22.80               | 6.69             | 13             | -6.306      |
|                     |           | 256QAM       | 19.52               | 8.13             | 13             | -4.869      |
|                     | 70MHz     | $\pi/2$ BPSK | 25.42               | 4.01             | 13             | -8.992      |
|                     |           | QPSK         | 22.80               | 6.62             | 13             | -6.379      |
|                     |           | 256QAM       | 19.59               | 8.28             | 13             | -4.716      |
|                     | 60MHz     | $\pi/2$ BPSK | 25.21               | 3.90             | 13             | -9.098      |
|                     |           | QPSK         | 22.57               | 6.60             | 13             | -6.398      |
|                     |           | 256QAM       | 19.29               | 8.30             | 13             | -4.700      |
|                     | 50MHz     | $\pi/2$ BPSK | 25.36               | 4.06             | 13             | -8.943      |
|                     |           | QPSK         | 22.73               | 6.53             | 13             | -6.469      |
|                     |           | 256QAM       | 19.53               | 8.46             | 13             | -4.543      |
|                     | 40MHz     | $\pi/2$ BPSK | 25.25               | 3.88             | 13             | -9.118      |
|                     |           | QPSK         | 22.75               | 6.42             | 13             | -6.584      |
|                     |           | 256QAM       | 19.34               | 8.17             | 13             | -4.831      |
|                     | 30MHz     | $\pi/2$ BPSK | 25.26               | 3.74             | 13             | -9.260      |
|                     |           | QPSK         | 22.65               | 6.46             | 13             | -6.541      |
|                     |           | 256QAM       | 19.38               | 8.47             | 13             | -4.528      |
|                     | 25MHz     | $\pi/2$ BPSK | 25.23               | 3.86             | 13             | -9.143      |
|                     |           | QPSK         | 22.60               | 6.61             | 13             | -6.389      |
|                     |           | 256QAM       | 19.31               | 8.07             | 13             | -4.929      |
|                     | 20MHz     | $\pi/2$ BPSK | 25.08               | 3.71             | 13             | -9.293      |
|                     |           | QPSK         | 22.59               | 6.41             | 13             | -6.593      |
|                     |           | 256QAM       | 19.21               | 8.45             | 13             | -4.553      |
|                     | 15MHz     | $\pi/2$ BPSK | 25.08               | 3.71             | 13             | -9.286      |
|                     |           | QPSK         | 22.51               | 6.44             | 13             | -6.556      |
|                     |           | 256QAM       | 19.32               | 8.14             | 13             | -4.863      |
|                     | 10MHz     | $\pi/2$ BPSK | 25.12               | 3.82             | 13             | -9.176      |
|                     |           | QPSK         | 22.50               | 6.56             | 13             | -6.444      |
|                     |           | 256QAM       | 19.30               | 8.11             | 13             | -4.890      |

Table 7-30. PAR Results - Ant1 – C-Band – Main

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 127 of 171                   |

| Mode             | Bandwidth | Modulation   | Average Power [dBm] | PAR at 0.1% [dB] | PAR Limit [dB] | Margin [dB] |
|------------------|-----------|--------------|---------------------|------------------|----------------|-------------|
| NR-n77PC2 C-Band | 100MHz    | $\pi/2$ BPSK | 20.45               | 3.39             | 13             | -9.61       |
|                  |           | QPSK         | 18.14               | 5.79             | 13             | -7.21       |
|                  |           | 256QAM       | 13.49               | 8.63             | 13             | -4.37       |

Table 7-31. PAR Results – Ant2 - C-Band - Main

| Mode             | Bandwidth | Modulation   | Average Power [dBm] | PAR at 0.1% [dB] | PAR Limit [dB] | Margin [dB] |
|------------------|-----------|--------------|---------------------|------------------|----------------|-------------|
| NR-n77PC2 C-Band | 100MHz    | $\pi/2$ BPSK | 24.59               | 3.49             | 13             | -9.51       |
|                  |           | QPSK         | 23.46               | 5.82             | 13             | -7.18       |
|                  |           | 256QAM       | 19.09               | 8.29             | 13             | -4.71       |

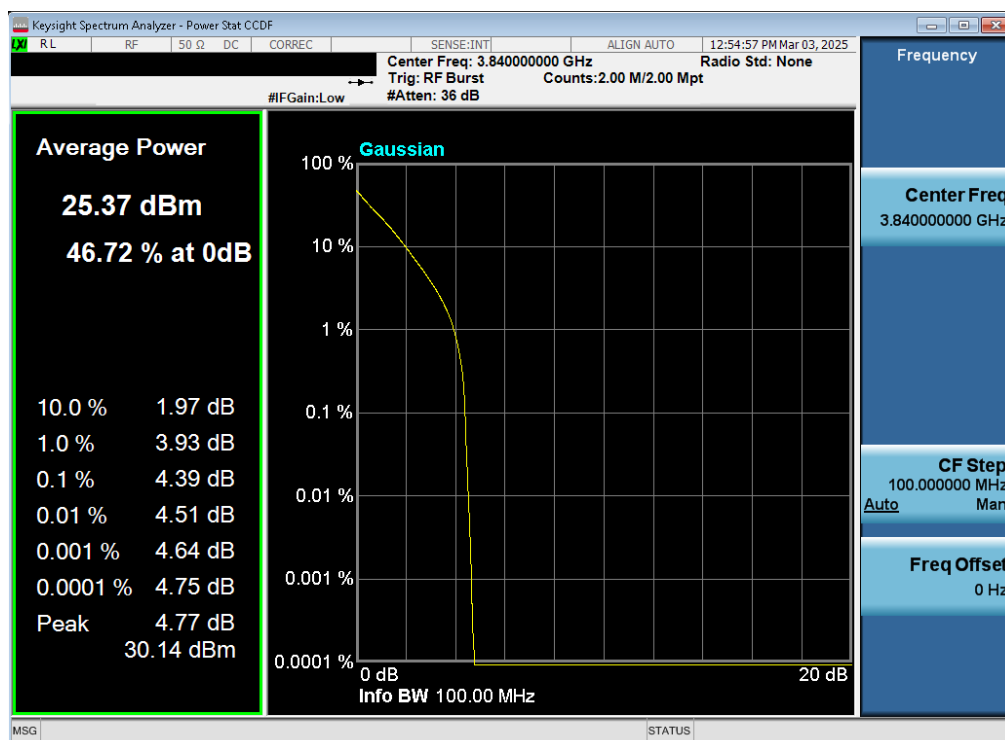
Table 7-32. PAR Results – Ant3 - C-Band - Main

| Mode             | Bandwidth | Modulation   | Average Power [dBm] | PAR at 0.1% [dB] | PAR Limit [dB] | Margin [dB] |
|------------------|-----------|--------------|---------------------|------------------|----------------|-------------|
| NR-n77PC2 C-Band | 100MHz    | $\pi/2$ BPSK | 18.92               | 2.26             | 13             | -10.74      |
|                  |           | QPSK         | 16.04               | 5.24             | 13             | -7.76       |
|                  |           | 256QAM       | 11.66               | 7.52             | 13             | -5.48       |

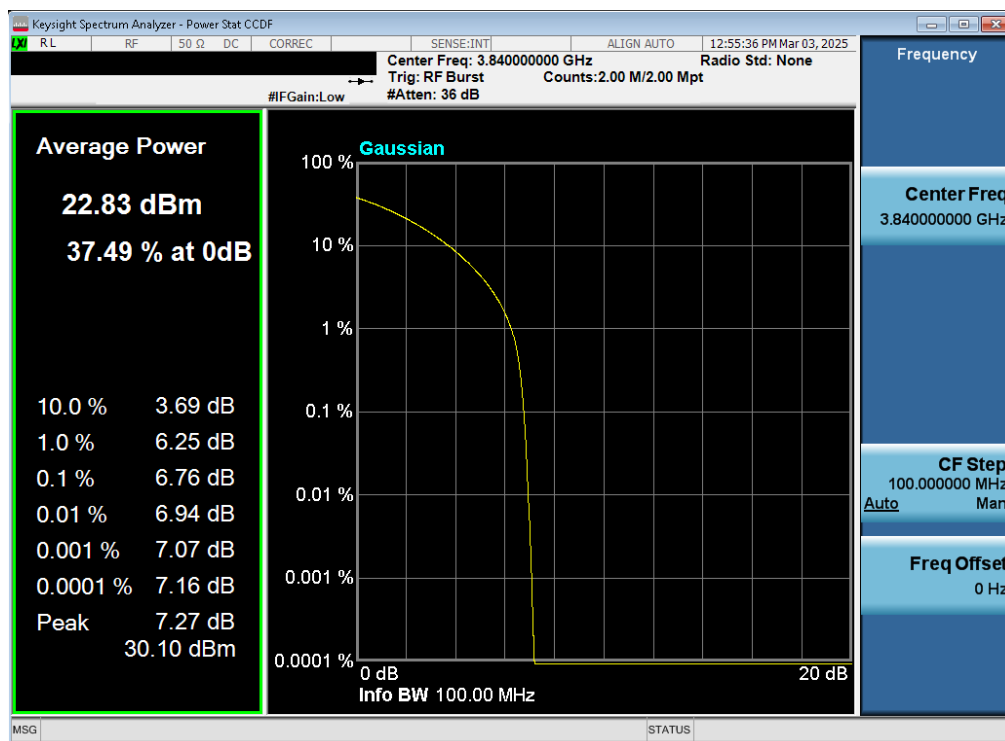
Table 7-33. PAR Results – Ant4 - C-Band - Main

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 128 of 171                   |

## NR Band n77 – Ant1 – C-Band – Main

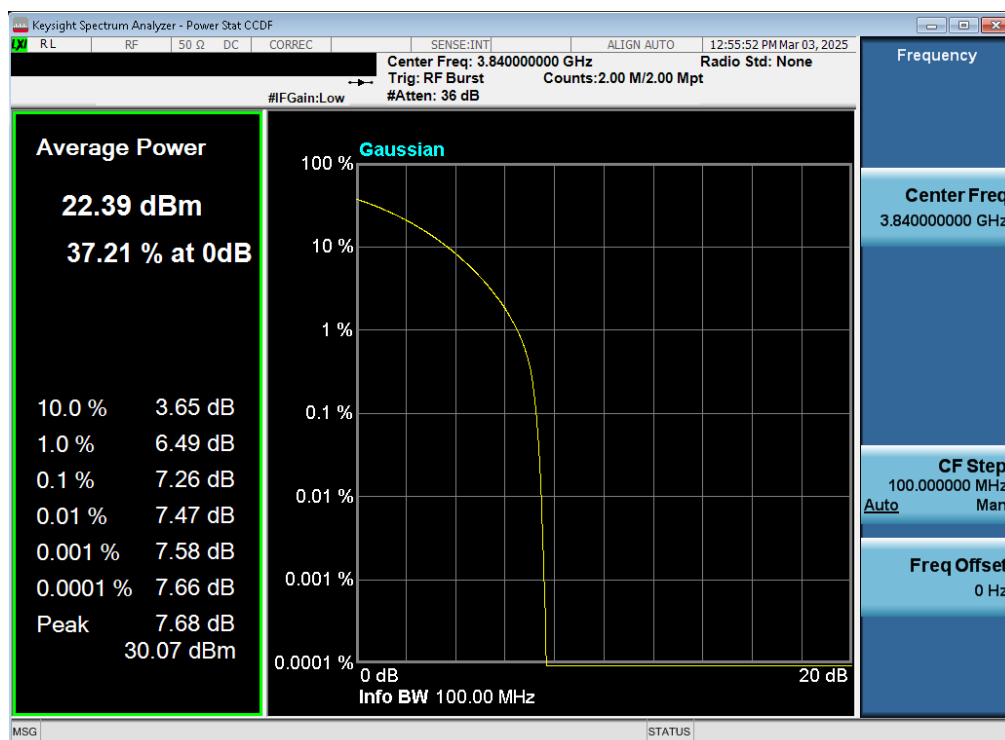


Plot 7-167. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM BPSK - Full RB - Ant1 – C-Band – Main)



Plot 7-168. PAR Plot (NR Band n77 - 100MHz CP-OFDM QPSK - Full RB - Ant1 – C-Band – Main)

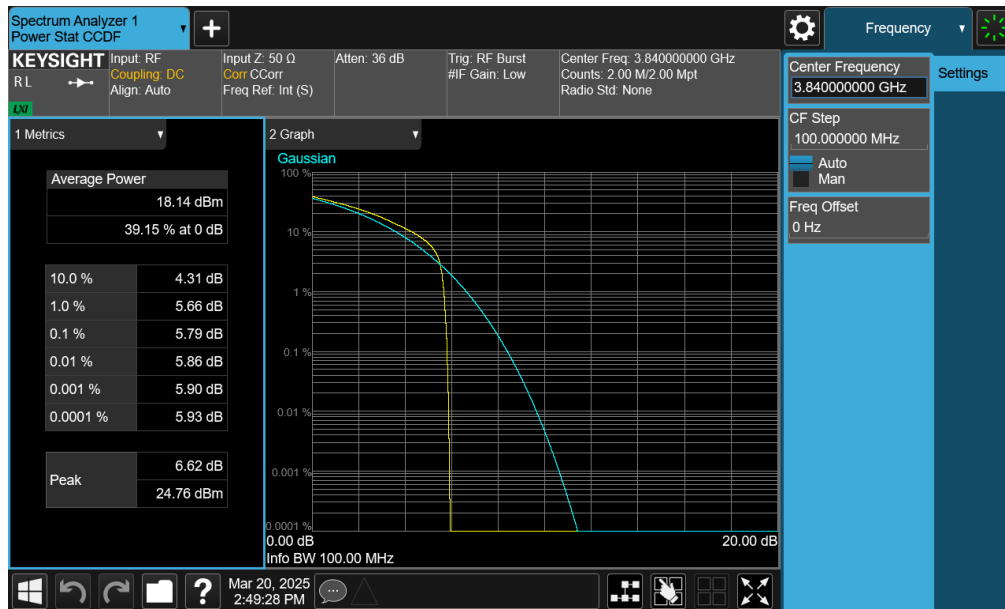
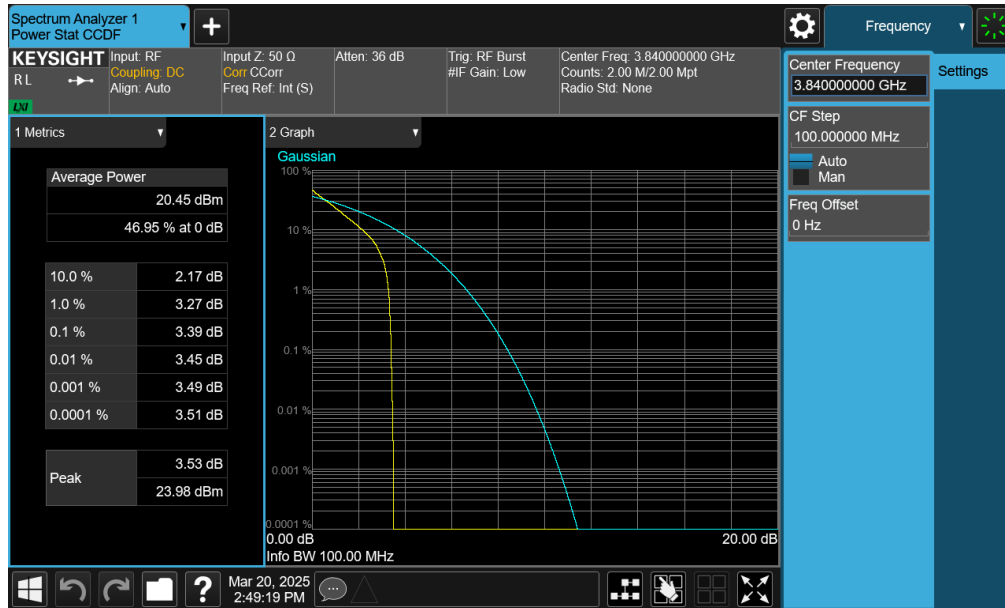
|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 129 of 171                   |



Plot 7-169. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - Full RB - Ant1 - C-Band - Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 130 of 171                   |

## NR Band n77 – Ant2 – C-Band – Main



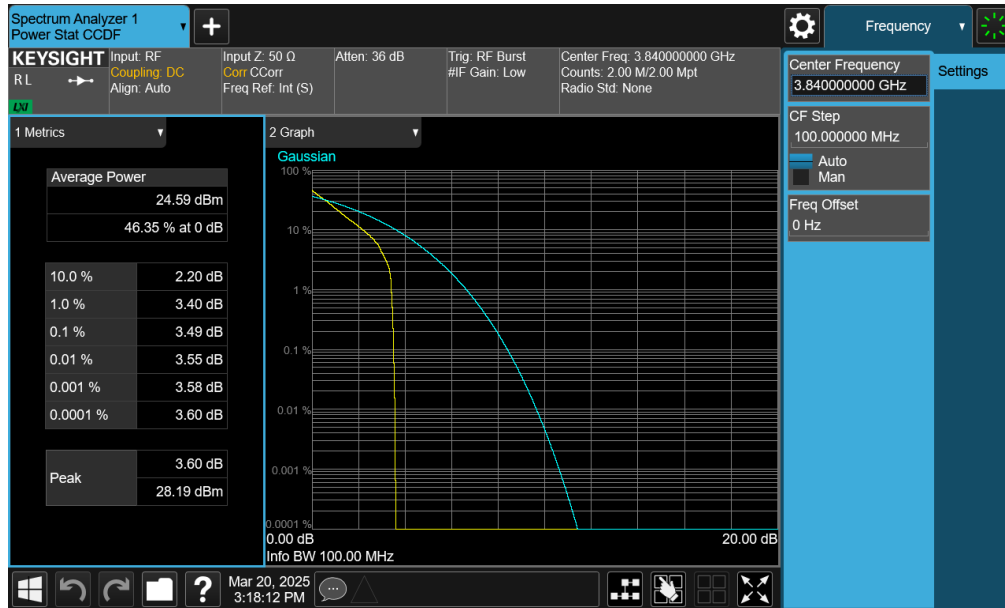
|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 131 of 171                   |



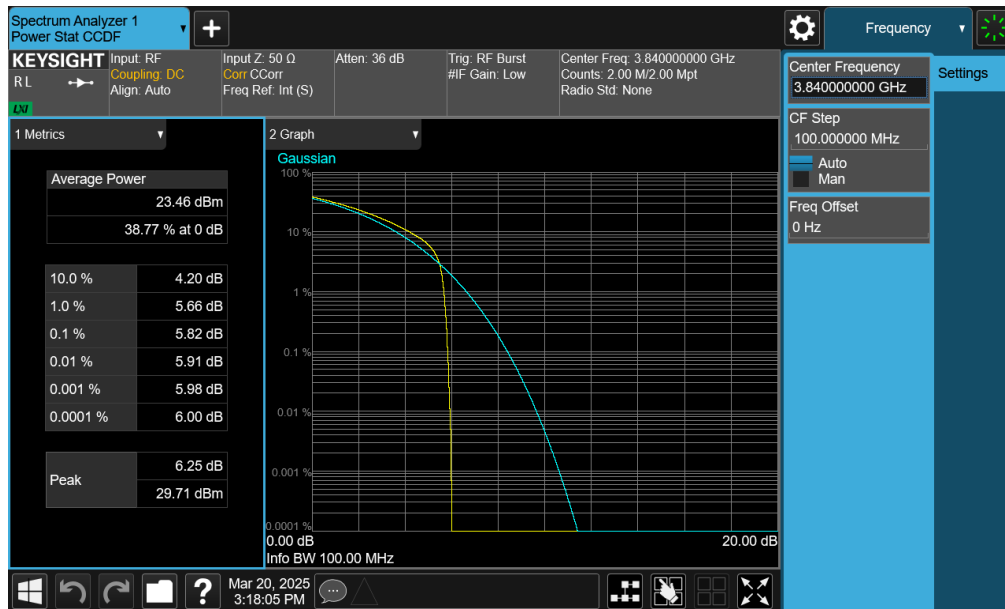
Plot 7-172. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - 1 RB - Ant2 – C-Band – Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 132 of 171                   |

## NR Band n77 – Ant3 – C-Band – Main



Plot 7-173. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM BPSK - 1 RB - Ant3 – C-Band – Main)



Plot 7-174. PAR Plot (NR Band n77 - 100MHz CP-OFDM QPSK - 1 RB - Ant3 – C-Band – Main)

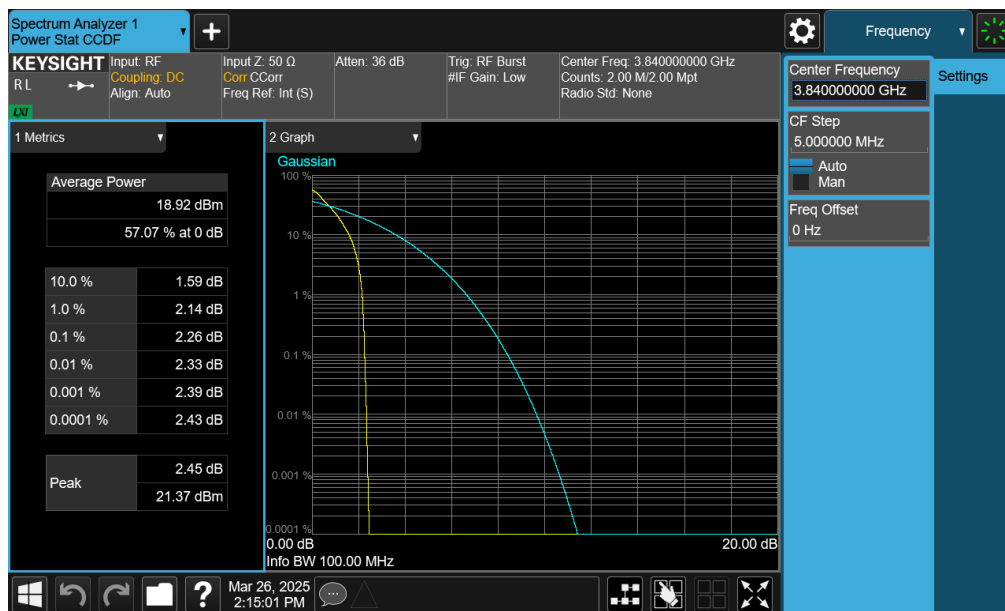
|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 133 of 171                   |



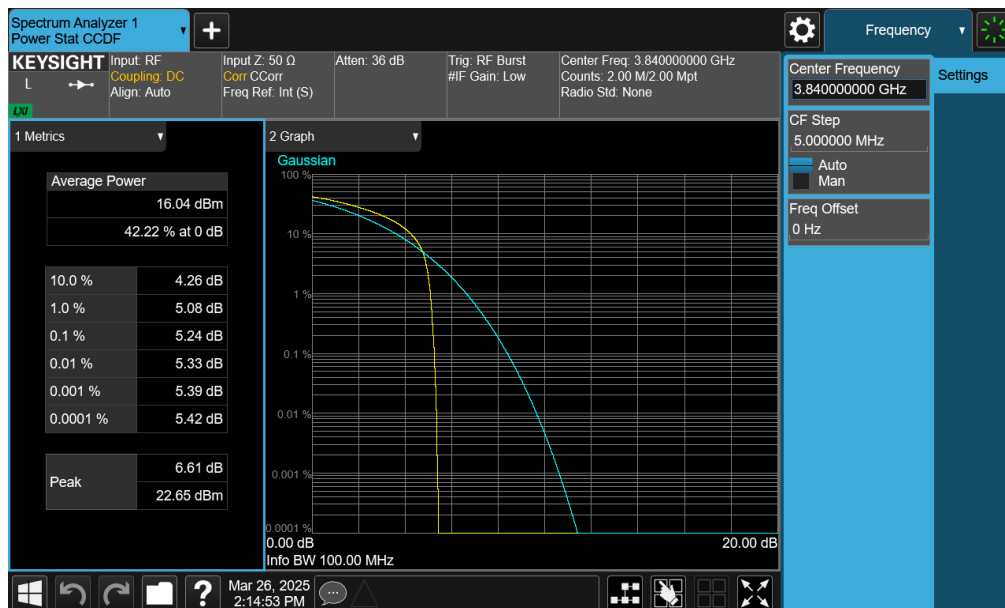
Plot 7-175. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - 1 RB - Ant3 – C-Band – Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 134 of 171                   |

## NR Band n77 – Ant4 – C-Band – Main

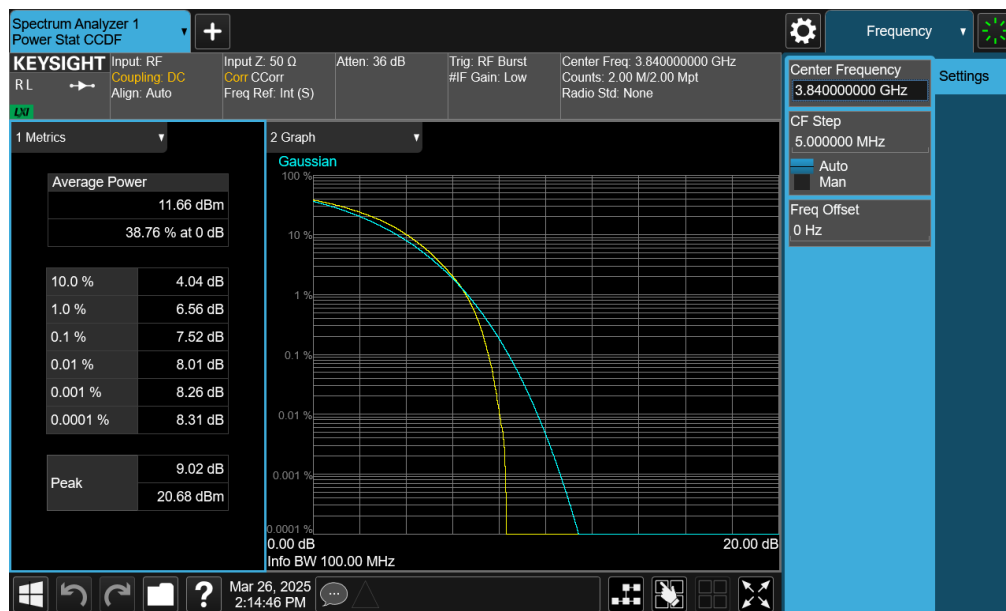


Plot 7-176. PAR Plot (NR Band n77 - 100MHz DFT-s-OFDM BPSK - 1 RB - Ant4 – C-Band – Main)



Plot 7-177. PAR Plot (NR Band n77 - 100MHz CP-OFDM QPSK - 1 RB - Ant4 – C-Band – Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 135 of 171                   |



Plot 7-178. PAR Plot (NR Band n77 - 100MHz CP-OFDM 256-QAM - 1 RB - Ant4 - C-Band - Main)

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 136 of 171                   |

## 7.7 Radiated Power (EIRP)

### Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

### Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

### Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW  $\geq 3 \times$  RBW
4. Span = 1.5 times the OBW
5. No. of sweep points  $\geq 2 \times$  span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 137 of 171                   |

## Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

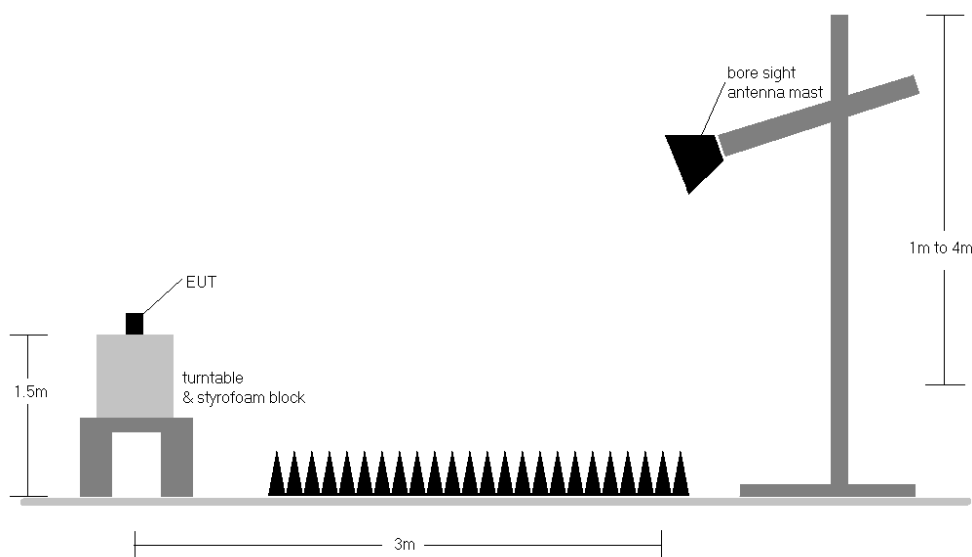


**Figure 7-6. Radiated Test Setup >1GHz**

## Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 138 of 171                   |

| Bandwidth | Mod.                 | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm]   | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|----------------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|--------------|--------------|------------------|-------------|
| 100 MHz   | $\pi/2$ BPSK         | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 17.68                  | <b>24.14</b> | 0.260        | 30.00            | -5.86       |
|           | QPSK                 | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 17.59                  | 24.05        | 0.254        | 30.00            | -5.95       |
|           | 16-QAM               | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 16.63                  | 23.09        | 0.204        | 30.00            | -6.91       |
| 90 MHz    | $\pi/2$ BPSK         | 3495.00         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 17.61                  | 24.06        | 0.255        | 30.00            | -5.94       |
|           | $\pi/2$ BPSK         | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 17.61                  | 24.07        | 0.256        | 30.00            | -5.93       |
|           | $\pi/2$ BPSK         | 3504.99         | H               | 123                 | 51                         | 6.47            | 1 / 122        | 17.62                  | 24.08        | 0.256        | 30.00            | -5.92       |
|           | QPSK                 | 3495.00         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 17.64                  | <b>24.09</b> | 0.257        | 30.00            | -5.91       |
|           | QPSK                 | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 17.57                  | 24.03        | 0.253        | 30.00            | -5.97       |
|           | QPSK                 | 3504.99         | H               | 123                 | 51                         | 6.47            | 1 / 1          | 17.55                  | 24.01        | 0.252        | 30.00            | -5.99       |
|           | 16-QAM               | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 16.68                  | 23.14        | 0.206        | 30.00            | -6.86       |
| 80 MHz    | $\pi/2$ BPSK         | 3490.02         | H               | 123                 | 51                         | 6.45            | 1 / 1          | 17.56                  | 24.01        | 0.252        | 30.00            | -5.99       |
|           | $\pi/2$ BPSK         | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 17.59                  | <b>24.05</b> | 0.254        | 30.00            | -5.95       |
|           | $\pi/2$ BPSK         | 3510.00         | H               | 123                 | 51                         | 6.47            | 1 / 1          | 17.50                  | 23.97        | 0.250        | 30.00            | -6.03       |
|           | QPSK                 | 3490.02         | H               | 123                 | 51                         | 6.45            | 1 / 1          | 17.47                  | 23.92        | 0.247        | 30.00            | -6.08       |
|           | QPSK                 | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 17.53                  | 23.99        | 0.251        | 30.00            | -6.01       |
|           | QPSK                 | 3510.00         | H               | 123                 | 51                         | 6.47            | 1 / 1          | 17.46                  | 23.93        | 0.247        | 30.00            | -6.07       |
|           | 16-QAM               | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 16.59                  | 23.05        | 0.202        | 30.00            | -6.95       |
| 70 MHz    | $\pi/2$ BPSK         | 3485.01         | H               | 123                 | 51                         | 6.45            | 1 / 1          | 17.69                  | <b>24.13</b> | 0.259        | 30.00            | -5.87       |
|           | $\pi/2$ BPSK         | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 17.53                  | 23.99        | 0.251        | 30.00            | -6.01       |
|           | $\pi/2$ BPSK         | 3514.98         | H               | 123                 | 51                         | 6.47            | 1 / 94         | 17.54                  | 24.01        | 0.252        | 30.00            | -5.99       |
|           | QPSK                 | 3485.01         | H               | 123                 | 51                         | 6.45            | 1 / 1          | 17.55                  | 23.99        | 0.251        | 30.00            | -6.01       |
|           | QPSK                 | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 17.43                  | 23.89        | 0.245        | 30.00            | -6.11       |
|           | QPSK                 | 3514.98         | H               | 123                 | 51                         | 6.47            | 1 / 187        | 17.52                  | 23.99        | 0.251        | 30.00            | -6.01       |
|           | 16-QAM               | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 16.53                  | 22.99        | 0.199        | 30.00            | -7.01       |
| 60 MHz    | $\pi/2$ BPSK         | 3480.00         | H               | 123                 | 51                         | 6.44            | 1 / 1          | 17.48                  | <b>23.92</b> | 0.247        | 30.00            | -6.08       |
|           | $\pi/2$ BPSK         | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 17.40                  | 23.86        | 0.243        | 30.00            | -6.14       |
|           | $\pi/2$ BPSK         | 3519.99         | H               | 123                 | 51                         | 6.48            | 1 / 1          | 17.41                  | 23.88        | 0.245        | 30.00            | -6.12       |
|           | QPSK                 | 3480.00         | H               | 123                 | 51                         | 6.44            | 1 / 1          | 17.47                  | 23.91        | 0.246        | 30.00            | -6.09       |
|           | QPSK                 | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 17.37                  | 23.83        | 0.242        | 30.00            | -6.17       |
|           | QPSK                 | 3519.99         | H               | 123                 | 51                         | 6.48            | 1 / 1          | 17.37                  | 23.84        | 0.242        | 30.00            | -6.16       |
|           | 16-QAM               | 3480.00         | H               | 123                 | 51                         | 6.44            | 1 / 1          | 16.49                  | 22.93        | 0.197        | 30.00            | -7.07       |
| 50 MHz    | $\pi/2$ BPSK         | 3475.02         | H               | 123                 | 51                         | 6.43            | 1 / 1          | 17.68                  | 24.11        | 0.258        | 30.00            | -5.89       |
|           | $\pi/2$ BPSK         | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 66         | 17.64                  | 24.10        | 0.257        | 30.00            | -5.90       |
|           | $\pi/2$ BPSK         | 3525.00         | H               | 123                 | 51                         | 6.48            | 1 / 1          | 17.65                  | <b>24.12</b> | 0.259        | 30.00            | -5.88       |
|           | QPSK                 | 3475.02         | H               | 123                 | 51                         | 6.43            | 1 / 1          | 17.63                  | 24.06        | 0.255        | 30.00            | -5.94       |
|           | QPSK                 | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 66         | 17.57                  | 24.03        | 0.253        | 30.00            | -5.97       |
|           | QPSK                 | 3525.00         | H               | 123                 | 51                         | 6.48            | 1 / 1          | 17.57                  | 24.04        | 0.254        | 30.00            | -5.96       |
|           | 16-QAM               | 3475.02         | H               | 123                 | 51                         | 6.43            | 1 / 1          | 16.67                  | 23.10        | 0.204        | 30.00            | -6.90       |
| 40 MHz    | $\pi/2$ BPSK         | 3470.01         | H               | 123                 | 51                         | 6.43            | 1 / 53         | 17.57                  | <b>23.99</b> | 0.251        | 30.00            | -6.01       |
|           | $\pi/2$ BPSK         | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 17.50                  | 23.96        | 0.249        | 30.00            | -6.04       |
|           | $\pi/2$ BPSK         | 3529.98         | H               | 123                 | 51                         | 6.48            | 1 / 53         | 17.48                  | 23.96        | 0.249        | 30.00            | -6.04       |
|           | QPSK                 | 3470.01         | H               | 123                 | 51                         | 6.43            | 1 / 1          | 17.50                  | 23.92        | 0.247        | 30.00            | -6.08       |
|           | QPSK                 | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 17.45                  | 23.91        | 0.246        | 30.00            | -6.09       |
|           | QPSK                 | 3529.98         | H               | 123                 | 51                         | 6.48            | 1 / 1          | 17.39                  | 23.87        | 0.244        | 30.00            | -6.13       |
|           | 16-QAM               | 3470.01         | H               | 123                 | 51                         | 6.43            | 1 / 1          | 16.52                  | 22.94        | 0.197        | 30.00            | -7.06       |
| 30 MHz    | $\pi/2$ BPSK         | 3465.00         | H               | 123                 | 51                         | 6.42            | 1 / 1          | 17.61                  | 24.03        | 0.253        | 30.00            | -5.97       |
|           | $\pi/2$ BPSK         | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 39         | 17.54                  | 24.00        | 0.251        | 30.00            | -6.00       |
|           | $\pi/2$ BPSK         | 3534.99         | H               | 123                 | 51                         | 6.48            | 1 / 39         | 17.58                  | <b>24.06</b> | 0.255        | 30.00            | -5.94       |
|           | QPSK                 | 3465.00         | H               | 123                 | 51                         | 6.42            | 1 / 1          | 17.56                  | 23.98        | 0.250        | 30.00            | -6.02       |
|           | QPSK                 | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 39         | 17.46                  | 23.92        | 0.247        | 30.00            | -6.08       |
|           | QPSK                 | 3534.99         | H               | 123                 | 51                         | 6.48            | 1 / 1          | 17.47                  | 23.95        | 0.249        | 30.00            | -6.05       |
|           | 16-QAM               | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 16.66                  | 23.12        | 0.205        | 30.00            | -6.88       |
| 25 MHz    | $\pi/2$ BPSK         | 3462.51         | H               | 123                 | 51                         | 6.42            | 1 / 32         | 17.75                  | <b>24.16</b> | 0.261        | 30.00            | -5.84       |
|           | $\pi/2$ BPSK         | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 32         | 17.59                  | 24.05        | 0.254        | 30.00            | -5.95       |
|           | $\pi/2$ BPSK         | 3537.48         | H               | 123                 | 51                         | 6.48            | 1 / 32         | 17.57                  | 24.05        | 0.254        | 30.00            | -5.95       |
|           | QPSK                 | 3462.51         | H               | 123                 | 51                         | 6.42            | 1 / 32         | 17.62                  | 24.03        | 0.253        | 30.00            | -5.97       |
|           | QPSK                 | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 32         | 17.53                  | 23.99        | 0.251        | 30.00            | -6.01       |
|           | QPSK                 | 3537.48         | H               | 123                 | 51                         | 6.48            | 1 / 32         | 17.50                  | 23.98        | 0.250        | 30.00            | -6.02       |
|           | 16-QAM               | 3462.51         | H               | 123                 | 51                         | 6.42            | 1 / 1          | 16.60                  | 23.01        | 0.200        | 30.00            | -6.99       |
| 20 MHz    | $\pi/2$ BPSK         | 3460.02         | H               | 123                 | 51                         | 6.42            | 1 / 49         | 17.44                  | 23.85        | 0.243        | 30.00            | -6.15       |
|           | $\pi/2$ BPSK         | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 17.50                  | <b>23.96</b> | 0.249        | 30.00            | -6.04       |
|           | $\pi/2$ BPSK         | 3540.00         | H               | 123                 | 51                         | 6.49            | 1 / 1          | 17.44                  | 23.92        | 0.247        | 30.00            | -6.08       |
|           | QPSK                 | 3460.02         | H               | 123                 | 51                         | 6.42            | 1 / 49         | 17.42                  | 23.83        | 0.242        | 30.00            | -6.17       |
|           | QPSK                 | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 49         | 17.39                  | 23.85        | 0.243        | 30.00            | -6.15       |
|           | QPSK                 | 3540.00         | H               | 123                 | 51                         | 6.49            | 1 / 1          | 17.36                  | 23.84        | 0.242        | 30.00            | -6.16       |
|           | 16-QAM               | 3540.00         | H               | 123                 | 51                         | 6.49            | 1 / 1          | 16.41                  | 22.89        | 0.195        | 30.00            | -7.11       |
| 15 MHz    | $\pi/2$ BPSK         | 3457.50         | H               | 123                 | 51                         | 6.41            | 1 / 1          | 17.46                  | 23.87        | 0.244        | 30.00            | -6.13       |
|           | $\pi/2$ BPSK         | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 36         | 17.49                  | <b>23.95</b> | 0.249        | 30.00            | -6.05       |
|           | $\pi/2$ BPSK         | 3542.49         | H               | 123                 | 51                         | 6.49            | 1 / 1          | 17.47                  | <b>23.95</b> | 0.249        | 30.00            | -6.05       |
|           | QPSK                 | 3457.50         | H               | 123                 | 51                         | 6.41            | 1 / 36         | 17.36                  | 23.77        | 0.238        | 30.00            | -6.23       |
|           | QPSK                 | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 36         | 17.36                  | 23.82        | 0.241        | 30.00            | -6.18       |
|           | QPSK                 | 3542.49         | H               | 123                 | 51                         | 6.49            | 1 / 1          | 17.37                  | 23.85        | 0.243        | 30.00            | -6.15       |
|           | 16-QAM               | 3542.49         | H               | 123                 | 51                         | 6.49            | 1 / 1          | 16.47                  | 22.95        | 0.197        | 30.00            | -7.05       |
| 10 MHz    | $\pi/2$ BPSK         | 3455.01         | H               | 123                 | 51                         | 6.41            | 1 / 1          | 17.49                  | 23.89        | 0.245        | 30.00            | -6.11       |
|           | $\pi/2$ BPSK         | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 1          | 17.47                  | 23.93        | 0.247        | 30.00            | -6.07       |
|           | $\pi/2$ BPSK         | 3544.98         | H               | 123                 | 51                         | 6.49            | 1 / 22         | 17.48                  | 23.96        | 0.249        | 30.00            | -6.04       |
|           | QPSK                 | 3455.01         | H               | 123                 | 51                         | 6.41            | 1 / 1          | 17.30                  | 23.70        | 0.235        | 30.00            | -6.30       |
|           | QPSK                 | 3500.01         | H               | 123                 | 51                         | 6.46            | 1 / 22         | 17.42                  | 23.88        | 0.245        | 30.00            | -6.12       |
|           | QPSK                 | 3544.98         | H               | 123                 | 51                         | 6.49            | 1 / 1          | 17.49                  | <b>23.97</b> | 0.250        | 30.00            | -6.03       |
|           | 16-QAM               | 3544.98         | H               | 123                 | 51                         | 6.49            | 1 / 1          | 16.58                  | 23.06        | 0.203        | 30.00            | -6.94       |
| 100 MHz   | QPSK (CP-OFDM)       | 3500.0          | H               | 123                 | 51                         | 6.46            | 1 / 1          | 15.96                  | 22.42        | 0.175        | 30.00            | -7.58       |
|           | QPSK (Opposite Pol.) | 3500.0          | V               | 300                 | 62                         | 6.48            | 1 / 271        | 16.13                  | 22.61        | 0.182        | 30.00            | -7.39       |
|           | QPSK (WCP)           | 3500.0          | H               | 189                 | 340                        | 6.46            | 1 / 136        | 15.86                  | 22.32        | 0.171        | 30.00            | -7.68       |

**Table 7-34. Radiated Power Test Results - Ant1 - DoD Band – Main**

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 139 of 171                   |

| Bandwidth | Mod.                 | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm]   | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|----------------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|--------------|--------------|------------------|-------------|
| 100 MHz   | $\pi/2$ BPSK         | 3500.01         | H               | 119                 | 51                         | 6.46            | 1 / 1          | 13.02                  | 19.48        | 0.089        | 30.00            | -10.52      |
|           | QPSK                 | 3500.01         | H               | 119                 | 51                         | 6.46            | 1 / 1          | 13.03                  | <b>19.49</b> | 0.089        | 30.00            | -10.51      |
|           | 16-QAM               | 3500.01         | H               | 119                 | 51                         | 6.46            | 1 / 1          | 11.98                  | 18.44        | 0.070        | 30.00            | -11.56      |
| 100 MHz   | QPSK (CP-OFDM)       | 3500.0          | H               | 119                 | 51                         | 6.46            | 1 / 1          | 11.59                  | 18.05        | 0.064        | 30.00            | -11.95      |
|           | QPSK (Opposite Pol.) | 3500.0          | V               | 185                 | 299                        | 6.46            | 1 / 1          | 10.03                  | 16.49        | 0.045        | 30.00            | -13.51      |
|           | QPSK (WCP)           | 3500.0          | H               | 104                 | 126                        | 6.46            | 1 / 1          | 12.95                  | 19.41        | 0.087        | 30.00            | -10.59      |

**Table 7-35. Radiated Power Test Results – Ant2 - DoD Band – Main**

| Bandwidth | Mod.                 | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm]   | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|----------------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|--------------|--------------|------------------|-------------|
| 100 MHz   | $\pi/2$ BPSK         | 3500.01         | H               | 116                 | 63                         | 6.46            | 1 / 136        | 15.36                  | 21.82        | 0.152        | 30.00            | -8.18       |
|           | QPSK                 | 3500.01         | H               | 116                 | 63                         | 6.46            | 1 / 136        | 15.39                  | <b>21.85</b> | 0.153        | 30.00            | -8.15       |
|           | 16-QAM               | 3500.01         | H               | 116                 | 63                         | 6.46            | 1 / 136        | 14.69                  | 21.15        | 0.130        | 30.00            | -8.85       |
| 100 MHz   | QPSK (CP-OFDM)       | 3500.0          | H               | 116                 | 63                         | 6.46            | 1 / 136        | 14.78                  | 21.24        | 0.133        | 30.00            | -8.76       |
|           | QPSK (Opposite Pol.) | 3500.0          | V               | 122                 | 90                         | 6.46            | 1 / 271        | 11.88                  | 18.34        | 0.068        | 30.00            | -11.66      |
|           | QPSK (WCP)           | 3500.0          | H               | 188                 | 53                         | 6.46            | 1 / 1          | 15.05                  | 21.51        | 0.142        | 30.00            | -8.49       |

**Table 7-36. Radiated Power Test Results – Ant3 - DoD Band – Main**

| Bandwidth | Mod.                 | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm]   | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|----------------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|--------------|--------------|------------------|-------------|
| 100 MHz   | $\pi/2$ BPSK         | 3500.01         | H               | 102                 | 58                         | 6.46            | 1 / 271        | 10.23                  | <b>16.69</b> | 0.047        | 30.00            | -13.31      |
|           | QPSK                 | 3500.01         | H               | 102                 | 58                         | 6.46            | 1 / 271        | 10.16                  | 16.62        | 0.046        | 30.00            | -13.38      |
|           | 16-QAM               | 3500.01         | H               | 102                 | 58                         | 6.46            | 1 / 271        | 9.12                   | 15.58        | 0.036        | 30.00            | -14.42      |
| 100 MHz   | QPSK (CP-OFDM)       | 3500.0          | H               | 102                 | 58                         | 6.46            | 1 / 271        | 8.83                   | 15.29        | 0.034        | 30.00            | -14.71      |
|           | QPSK (Opposite Pol.) | 3500.0          | V               | 400                 | 56                         | 6.46            | 1 / 1          | 10.02                  | 16.48        | 0.045        | 30.00            | -13.52      |
|           | QPSK (WCP)           | 3500.0          | H               | 164                 | 122                        | 6.46            | 1 / 136        | 9.02                   | 15.48        | 0.035        | 30.00            | -14.52      |

**Table 7-37. Radiated Power Test Results – Ant4 - DoD Band – Main**

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 140 of 171                   |

| Bandwidth | Mod.                 | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm]   | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|----------------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|--------------|--------------|------------------|-------------|
| 100 MHz   | π/2 BPSK             | 3750.00         | H               | 120                 | 57                         | 7.01            | 1 / 271        | 19.55                  | <b>26.56</b> | 0.453        | 30.00            | -3.44       |
|           | π/2 BPSK             | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 1          | 19.07                  | 26.22        | 0.419        | 30.00            | -3.78       |
|           | π/2 BPSK             | 3930.00         | H               | 126                 | 52                         | 7.39            | 1 / 136        | 17.55                  | 24.94        | 0.312        | 30.00            | -5.06       |
|           | QPSK                 | 3750.00         | H               | 120                 | 57                         | 7.01            | 1 / 271        | 19.46                  | 26.47        | 0.444        | 30.00            | -3.53       |
|           | QPSK                 | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 1          | 19.00                  | 26.15        | 0.412        | 30.00            | -3.85       |
|           | QPSK                 | 3930.00         | H               | 126                 | 52                         | 7.39            | 1 / 136        | 17.50                  | 24.89        | 0.308        | 30.00            | -5.11       |
|           | 16-QAM               | 3750.00         | H               | 120                 | 57                         | 7.01            | 1 / 271        | 18.08                  | 25.09        | 0.323        | 30.00            | -4.91       |
| 90 MHz    | π/2 BPSK             | 3745.02         | H               | 120                 | 57                         | 7.00            | 1 / 243        | 19.55                  | 26.55        | 0.452        | 30.00            | -3.45       |
|           | π/2 BPSK             | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 243        | 19.08                  | 26.23        | 0.420        | 30.00            | -3.77       |
|           | π/2 BPSK             | 3934.98         | H               | 126                 | 52                         | 7.40            | 1 / 243        | 17.60                  | 25.00        | 0.316        | 30.00            | -5.00       |
|           | QPSK                 | 3745.02         | H               | 120                 | 57                         | 7.00            | 1 / 1          | 19.55                  | <b>26.55</b> | 0.452        | 30.00            | -3.45       |
|           | QPSK                 | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 243        | 19.04                  | 26.19        | 0.416        | 30.00            | -3.81       |
|           | QPSK                 | 3934.98         | H               | 126                 | 52                         | 7.40            | 1 / 243        | 17.46                  | 24.86        | 0.306        | 30.00            | -5.14       |
|           | 16-QAM               | 3745.02         | H               | 120                 | 57                         | 7.00            | 1 / 1          | 18.35                  | 25.35        | 0.343        | 30.00            | -4.65       |
| 80 MHz    | π/2 BPSK             | 3740.01         | H               | 120                 | 57                         | 6.99            | 1 / 215        | 19.52                  | <b>26.50</b> | 0.447        | 30.00            | -3.50       |
|           | π/2 BPSK             | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 215        | 19.07                  | 26.22        | 0.419        | 30.00            | -3.78       |
|           | π/2 BPSK             | 3939.99         | H               | 126                 | 52                         | 7.41            | 1 / 215        | 17.50                  | 24.91        | 0.310        | 30.00            | -5.09       |
|           | QPSK                 | 3740.01         | H               | 120                 | 57                         | 6.99            | 1 / 1          | 19.49                  | 26.47        | 0.444        | 30.00            | -3.53       |
|           | QPSK                 | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 215        | 19.00                  | 26.15        | 0.412        | 30.00            | -3.85       |
|           | QPSK                 | 3939.99         | H               | 126                 | 52                         | 7.41            | 1 / 215        | 17.48                  | 24.89        | 0.308        | 30.00            | -5.11       |
|           | 16-QAM               | 3740.01         | H               | 120                 | 57                         | 6.99            | 1 / 1          | 18.11                  | 25.09        | 0.323        | 30.00            | -4.91       |
| 70 MHz    | π/2 BPSK             | 3735.00         | H               | 120                 | 57                         | 6.97            | 1 / 1          | 19.38                  | 26.35        | 0.432        | 30.00            | -3.65       |
|           | π/2 BPSK             | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 187        | 18.94                  | 26.09        | 0.407        | 30.00            | -3.91       |
|           | π/2 BPSK             | 3945.00         | H               | 126                 | 52                         | 7.42            | 1 / 187        | 17.40                  | 24.82        | 0.303        | 30.00            | -5.18       |
|           | QPSK                 | 3735.00         | H               | 120                 | 57                         | 6.97            | 1 / 1          | 19.48                  | <b>26.45</b> | 0.442        | 30.00            | -3.55       |
|           | QPSK                 | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 187        | 18.90                  | 26.05        | 0.403        | 30.00            | -3.95       |
|           | QPSK                 | 3945.00         | H               | 126                 | 52                         | 7.42            | 1 / 187        | 17.36                  | 24.78        | 0.301        | 30.00            | -5.22       |
|           | 16-QAM               | 3735.00         | H               | 120                 | 57                         | 6.97            | 1 / 1          | 18.15                  | 25.12        | 0.325        | 30.00            | -4.88       |
| 60 MHz    | π/2 BPSK             | 3730.02         | H               | 120                 | 57                         | 6.96            | 1 / 160        | 19.34                  | 26.29        | 0.426        | 30.00            | -3.71       |
|           | π/2 BPSK             | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 160        | 18.76                  | 25.91        | 0.390        | 30.00            | -4.09       |
|           | π/2 BPSK             | 3949.98         | H               | 126                 | 52                         | 7.43            | 1 / 81         | 17.35                  | 24.77        | 0.300        | 30.00            | -5.23       |
|           | QPSK                 | 3730.02         | H               | 120                 | 57                         | 6.96            | 1 / 160        | 19.42                  | <b>26.37</b> | 0.434        | 30.00            | -3.63       |
|           | QPSK                 | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 160        | 18.70                  | 25.85        | 0.385        | 30.00            | -4.15       |
|           | QPSK                 | 3949.98         | H               | 126                 | 52                         | 7.43            | 1 / 1          | 17.24                  | 24.66        | 0.293        | 30.00            | -5.34       |
|           | 16-QAM               | 3730.02         | H               | 120                 | 57                         | 6.96            | 1 / 1          | 18.09                  | 25.04        | 0.320        | 30.00            | -4.96       |
| 50 MHz    | π/2 BPSK             | 3725.01         | H               | 120                 | 57                         | 6.94            | 1 / 131        | 19.43                  | 26.37        | 0.434        | 30.00            | -3.63       |
|           | π/2 BPSK             | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 66         | 18.99                  | 26.14        | 0.411        | 30.00            | -3.86       |
|           | π/2 BPSK             | 3954.99         | H               | 126                 | 52                         | 7.43            | 1 / 131        | 17.53                  | 24.96        | 0.313        | 30.00            | -5.04       |
|           | QPSK                 | 3725.01         | H               | 120                 | 57                         | 6.94            | 1 / 1          | 19.48                  | <b>26.42</b> | 0.439        | 30.00            | -3.58       |
|           | QPSK                 | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 131        | 18.95                  | 26.10        | 0.408        | 30.00            | -3.90       |
|           | QPSK                 | 3954.99         | H               | 126                 | 52                         | 7.43            | 1 / 131        | 17.45                  | 24.88        | 0.308        | 30.00            | -5.12       |
|           | 16-QAM               | 3725.01         | H               | 120                 | 57                         | 6.94            | 1 / 1          | 18.40                  | 25.34        | 0.342        | 30.00            | -4.66       |
| 40 MHz    | π/2 BPSK             | 3720.00         | H               | 120                 | 57                         | 6.93            | 1 / 53         | 19.46                  | <b>26.38</b> | 0.435        | 30.00            | -3.62       |
|           | π/2 BPSK             | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 53         | 18.75                  | 25.90        | 0.389        | 30.00            | -4.10       |
|           | π/2 BPSK             | 3960.00         | H               | 126                 | 52                         | 7.44            | 1 / 104        | 17.35                  | 24.79        | 0.301        | 30.00            | -5.21       |
|           | QPSK                 | 3720.00         | H               | 120                 | 57                         | 6.93            | 1 / 53         | 19.45                  | 26.37        | 0.434        | 30.00            | -3.63       |
|           | QPSK                 | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 104        | 18.71                  | 25.86        | 0.386        | 30.00            | -4.14       |
|           | QPSK                 | 3960.00         | H               | 126                 | 52                         | 7.44            | 1 / 104        | 17.25                  | 24.69        | 0.295        | 30.00            | -5.31       |
|           | 16-QAM               | 3720.00         | H               | 120                 | 57                         | 6.93            | 1 / 1          | 18.29                  | 25.21        | 0.332        | 30.00            | -4.79       |
| 30 MHz    | π/2 BPSK             | 3715.02         | H               | 120                 | 57                         | 6.91            | 1 / 1          | 19.39                  | 26.30        | 0.427        | 30.00            | -3.70       |
|           | π/2 BPSK             | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 1          | 18.82                  | 25.97        | 0.396        | 30.00            | -4.03       |
|           | π/2 BPSK             | 3964.98         | H               | 126                 | 52                         | 7.45            | 1 / 76         | 17.45                  | 24.90        | 0.309        | 30.00            | -5.10       |
|           | QPSK                 | 3715.02         | H               | 120                 | 57                         | 6.91            | 1 / 1          | 19.43                  | <b>26.34</b> | 0.431        | 30.00            | -3.66       |
|           | QPSK                 | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 76         | 18.76                  | 25.91        | 0.390        | 30.00            | -4.09       |
|           | QPSK                 | 3964.98         | H               | 126                 | 52                         | 7.45            | 1 / 76         | 17.29                  | 24.74        | 0.298        | 30.00            | -5.26       |
|           | 16-QAM               | 3715.02         | H               | 120                 | 57                         | 6.91            | 1 / 1          | 18.28                  | 25.19        | 0.331        | 30.00            | -4.81       |
| 25 MHz    | π/2 BPSK             | 3712.50         | H               | 123                 | 51                         | 6.91            | 1 / 32         | 19.54                  | 26.44        | 0.441        | 30.00            | -3.56       |
|           | π/2 BPSK             | 3840.00         | H               | 123                 | 51                         | 7.15            | 1 / 63         | 18.86                  | 26.01        | 0.399        | 30.00            | -3.99       |
|           | π/2 BPSK             | 3967.50         | H               | 123                 | 51                         | 7.46            | 1 / 63         | 17.39                  | 24.84        | 0.305        | 30.00            | -5.16       |
|           | QPSK                 | 3712.50         | H               | 123                 | 51                         | 6.91            | 1 / 32         | 19.57                  | <b>26.47</b> | 0.444        | 30.00            | -3.53       |
|           | QPSK                 | 3840.00         | H               | 123                 | 51                         | 7.15            | 1 / 63         | 18.79                  | 25.94        | 0.393        | 30.00            | -4.06       |
|           | QPSK                 | 3967.50         | H               | 123                 | 51                         | 7.46            | 1 / 32         | 17.23                  | 24.68        | 0.294        | 30.00            | -5.32       |
|           | 16-QAM               | 3712.50         | H               | 123                 | 51                         | 6.91            | 1 / 1          | 18.28                  | 25.18        | 0.330        | 30.00            | -4.82       |
| 20 MHz    | π/2 BPSK             | 3710.01         | H               | 120                 | 57                         | 6.90            | 1 / 25         | 19.36                  | 26.26        | 0.423        | 30.00            | -3.74       |
|           | π/2 BPSK             | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 1          | 18.73                  | 25.88        | 0.388        | 30.00            | -4.12       |
|           | π/2 BPSK             | 3969.99         | H               | 126                 | 52                         | 7.46            | 1 / 49         | 17.33                  | 24.79        | 0.301        | 30.00            | -5.21       |
|           | QPSK                 | 3710.01         | H               | 120                 | 57                         | 6.90            | 1 / 49         | 19.40                  | <b>26.30</b> | 0.427        | 30.00            | -3.70       |
|           | QPSK                 | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 1          | 18.63                  | 25.78        | 0.379        | 30.00            | -4.22       |
|           | QPSK                 | 3969.99         | H               | 126                 | 52                         | 7.46            | 1 / 25         | 17.15                  | 24.61        | 0.289        | 30.00            | -5.39       |
|           | 16-QAM               | 3710.01         | H               | 120                 | 57                         | 6.90            | 1 / 1          | 18.25                  | 25.15        | 0.328        | 30.00            | -4.85       |
| 15 MHz    | π/2 BPSK             | 3707.52         | H               | 120                 | 57                         | 6.89            | 1 / 1          | 19.43                  | 26.32        | 0.429        | 30.00            | -3.68       |
|           | π/2 BPSK             | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 1          | 18.78                  | 25.93        | 0.392        | 30.00            | -4.07       |
|           | π/2 BPSK             | 3972.48         | H               | 126                 | 52                         | 7.46            | 1 / 19         | 17.34                  | 24.80        | 0.302        | 30.00            | -5.20       |
|           | QPSK                 | 3707.52         | H               | 120                 | 57                         | 6.89            | 1 / 1          | 19.47                  | <b>26.36</b> | 0.433        | 30.00            | -3.64       |
|           | QPSK                 | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 36         | 18.63                  | 25.78        | 0.379        | 30.00            | -4.22       |
|           | QPSK                 | 3972.48         | H               | 126                 | 52                         | 7.46            | 1 / 36         | 17.24                  | 24.70        | 0.295        | 30.00            | -5.30       |
|           | 16-QAM               | 3707.52         | H               | 120                 | 57                         | 6.89            | 1 / 1          | 18.28                  | 25.17        | 0.329        | 30.00            | -4.83       |
| 10 MHz    | π/2 BPSK             | 3705.00         | H               | 120                 | 57                         | 6.89            | 1 / 22         | 19.46                  | 26.34        | 0.431        | 30.00            | -3.66       |
|           | π/2 BPSK             | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 22         | 18.79                  | 25.94        | 0.393        | 30.00            | -4.06       |
|           | π/2 BPSK             | 3975.00         | H               | 126                 | 52                         | 7.47            | 1 / 22         | 17.35                  | 24.82        | 0.303        | 30.00            | -5.18       |
|           | QPSK                 | 3705.00         | H               | 120                 | 57                         | 6.89            | 1 / 22         | 19.48                  | <b>26.36</b> | 0.433        | 30.00            | -3.64       |
|           | QPSK                 | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 22         | 18.73                  | 25.88        | 0.388        | 30.00            | -4.12       |
|           | QPSK                 | 3975.00         | H               | 126                 | 52                         | 7.47            | 1 / 22         | 17.27                  | 24.74        | 0.298        | 30.00            | -5.26       |
|           | 16-QAM               | 3840.00         | H               | 116                 | 55                         | 7.15            | 1 / 1          | 17.95                  | 25.10        | 0.324        | 30.00            | -4.90       |
| 100 MHz   | QPSK (CP-OFDM)       | 3750.00         | H               | 120                 | 57                         | 7.01            | 1 / 271        | 18.05                  | 25.06        | 0.321        | 30.00            | -4.94       |
|           | QPSK (Opposite Pol.) | 3750.00         | V               | 172                 | 194                        | 7.13            | 1 / 271        | 16.43                  | 23.56        | 0.227        | 30.00            | -6.44       |
|           | QPSK (WCP)           | 3750.00         | H               | 120                 | 50                         | 7.01            | 1 / 136        | 18.29                  | 25.30        | 0.339        | 30.00            | -4.70       |

**Table 7-38. Radiated Power Test Results - Ant1 - C-Band – Main**

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 141 of 171                   |

| Bandwidth | Mod.                 | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|----------------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|------------|--------------|------------------|-------------|
| 100 MHz   | $\pi/2$ BPSK         | 3750.00         | H               | 109                 | 56                         | 7.03            | 1 / 1          | 11.96                  | 18.99      | 0.079        | 30.00            | -11.01      |
|           | $\pi/2$ BPSK         | 3840.00         | H               | 102                 | 55                         | 7.13            | 1 / 1          | 11.65                  | 18.78      | 0.075        | 30.00            | -11.22      |
|           | $\pi/2$ BPSK         | 3930.00         | H               | 102                 | 57                         | 7.39            | 1 / 136        | 10.52                  | 17.91      | 0.062        | 30.00            | -12.09      |
|           | QPSK                 | 3750.00         | H               | 109                 | 56                         | 7.03            | 1 / 1          | 12.01                  | 19.04      | 0.080        | 30.00            | -10.96      |
|           | QPSK                 | 3840.00         | H               | 102                 | 55                         | 7.13            | 1 / 1          | 11.67                  | 18.80      | 0.076        | 30.00            | -11.20      |
|           | QPSK                 | 3930.00         | H               | 102                 | 57                         | 7.39            | 1 / 136        | 10.62                  | 18.01      | 0.063        | 30.00            | -11.99      |
|           | 16-QAM               | 3750.00         | H               | 109                 | 56                         | 7.03            | 1 / 1          | 11.04                  | 18.07      | 0.064        | 30.00            | -11.93      |
| 100 MHz   | QPSK (CP-OFDM)       | 3750.0          | H               | 109                 | 56                         | 7.03            | 1 / 1          | 10.57                  | 17.60      | 0.058        | 30.00            | -12.40      |
|           | QPSK (Opposite Pol.) | 3750.0          | V               | 182                 | 314                        | 7.03            | 1 / 136        | 9.19                   | 16.22      | 0.042        | 30.00            | -13.78      |
|           | QPSK (WCP)           | 3750.0          | H               | 102                 | 128                        | 7.03            | 1 / 136        | 11.30                  | 18.33      | 0.068        | 30.00            | -11.67      |

**Table 7-39. Radiated Power Test Results – Ant2 - C-Band – Main**

| Bandwidth | Mod.                 | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|----------------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|------------|--------------|------------------|-------------|
| 100 MHz   | $\pi/2$ BPSK         | 3750.00         | H               | 111                 | 336                        | 7.03            | 1 / 136        | 15.11                  | 22.14      | 0.164        | 30.00            | -7.86       |
|           | $\pi/2$ BPSK         | 3840.00         | H               | 102                 | 1                          | 7.13            | 1 / 136        | 16.62                  | 23.75      | 0.237        | 30.00            | -6.25       |
|           | $\pi/2$ BPSK         | 3930.00         | H               | 102                 | 355                        | 7.39            | 1 / 1          | 16.27                  | 23.66      | 0.233        | 30.00            | -6.34       |
|           | QPSK                 | 3750.00         | H               | 111                 | 336                        | 7.03            | 1 / 136        | 14.92                  | 21.95      | 0.157        | 30.00            | -8.05       |
|           | QPSK                 | 3840.00         | H               | 102                 | 1                          | 7.13            | 1 / 136        | 16.65                  | 23.78      | 0.239        | 30.00            | -6.22       |
|           | QPSK                 | 3930.00         | H               | 102                 | 355                        | 7.39            | 1 / 1          | 16.24                  | 23.63      | 0.231        | 30.00            | -6.37       |
|           | 16-QAM               | 3840.00         | H               | 102                 | 1                          | 7.13            | 1 / 136        | 15.60                  | 22.73      | 0.187        | 30.00            | -7.27       |
| 100 MHz   | QPSK (CP-OFDM)       | 3840.0          | H               | 102                 | 1                          | 7.13            | 1 / 136        | 15.20                  | 22.33      | 0.171        | 30.00            | -7.67       |
|           | QPSK (Opposite Pol.) | 3840.0          | V               | 121                 | 91                         | 7.13            | 1 / 136        | 13.27                  | 20.40      | 0.110        | 30.00            | -9.60       |
|           | QPSK (WCP)           | 3840.0          | H               | 198                 | 61                         | 7.03            | 1 / 136        | 16.20                  | 23.23      | 0.211        | 30.00            | -6.77       |

**Table 7-40. Radiated Power Test Results – Ant3 - C-Band – Main**

| Bandwidth | Mod.                 | Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Ant. Gain [dBi] | RB Size/Offset | Substitute Level [dBm] | EIRP [dBm] | EIRP [Watts] | EIRP Limit [dBm] | Margin [dB] |
|-----------|----------------------|-----------------|-----------------|---------------------|----------------------------|-----------------|----------------|------------------------|------------|--------------|------------------|-------------|
| 100 MHz   | $\pi/2$ BPSK         | 3750.00         | H               | 102                 | 57                         | 7.03            | 1 / 271        | 8.09                   | 15.12      | 0.033        | 30.00            | -14.88      |
|           | $\pi/2$ BPSK         | 3840.00         | H               | 102                 | 57                         | 7.13            | 1 / 1          | 8.71                   | 15.84      | 0.038        | 30.00            | -14.16      |
|           | $\pi/2$ BPSK         | 3930.00         | H               | 102                 | 58                         | 7.39            | 1 / 1          | 6.44                   | 13.83      | 0.024        | 30.00            | -16.17      |
|           | QPSK                 | 3750.00         | H               | 102                 | 57                         | 7.03            | 1 / 271        | 8.09                   | 15.12      | 0.033        | 30.00            | -14.88      |
|           | QPSK                 | 3840.00         | H               | 102                 | 57                         | 7.13            | 1 / 1          | 8.83                   | 15.96      | 0.039        | 30.00            | -14.04      |
|           | QPSK                 | 3930.00         | H               | 102                 | 58                         | 7.39            | 1 / 1          | 6.51                   | 13.90      | 0.025        | 30.00            | -16.10      |
|           | 16-QAM               | 3840.00         | H               | 102                 | 57                         | 7.13            | 1 / 1          | 7.77                   | 14.90      | 0.031        | 30.00            | -15.10      |
| 100 MHz   | QPSK (CP-OFDM)       | 3840.0          | H               | 102                 | 57                         | 7.13            | 1 / 1          | 7.42                   | 14.55      | 0.029        | 30.00            | -15.45      |
|           | QPSK (Opposite Pol.) | 3840.0          | V               | 400                 | 70                         | 7.13            | 1 / 271        | 7.23                   | 14.36      | 0.027        | 30.00            | -15.64      |
|           | QPSK (WCP)           | 3840.0          | H               | 143                 | 116                        | 7.03            | 1 / 136        | 4.52                   | 11.55      | 0.014        | 30.00            | -18.45      |

**Table 7-41. Radiated Power Test Results – Ant4 - C-Band – Main**

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 142 of 171                   |

## 7.8 Radiated Spurious Emissions Measurements

### Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

### Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

### Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW  $\geq 3 \times$  RBW
3. Span = 1.5 times the OBW
4. No. of sweep points  $\geq 2 \times$  span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
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| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 143 of 171                   |

## Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

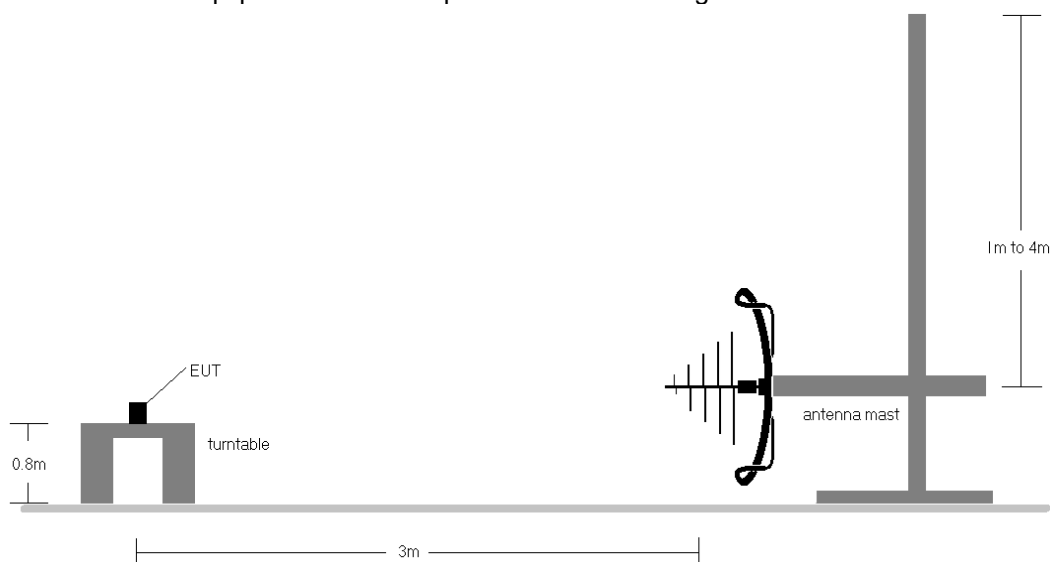


**Figure 7-7. Test Instrument & Measurement Setup < 1GHz**

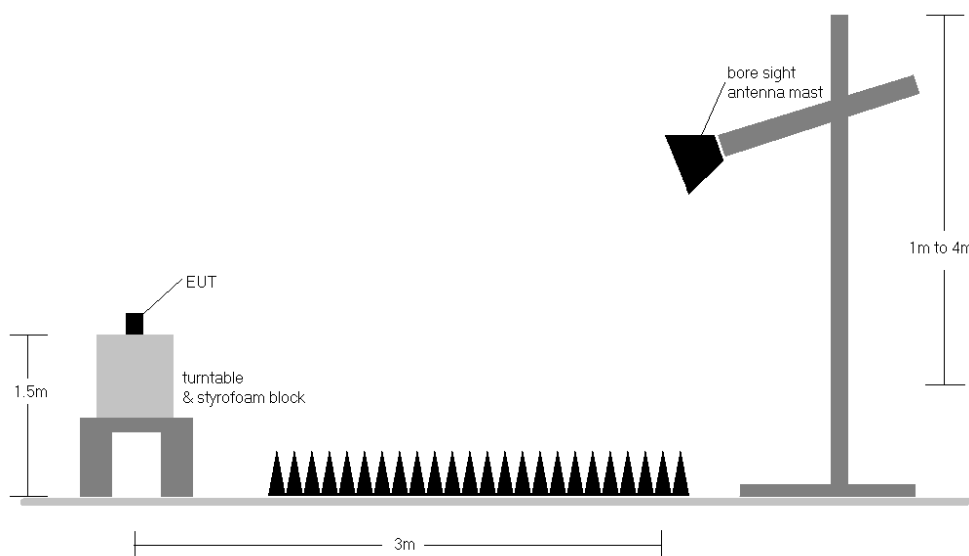


**Figure 7-8. Test Instrument & Measurement Setup >1 GHz**

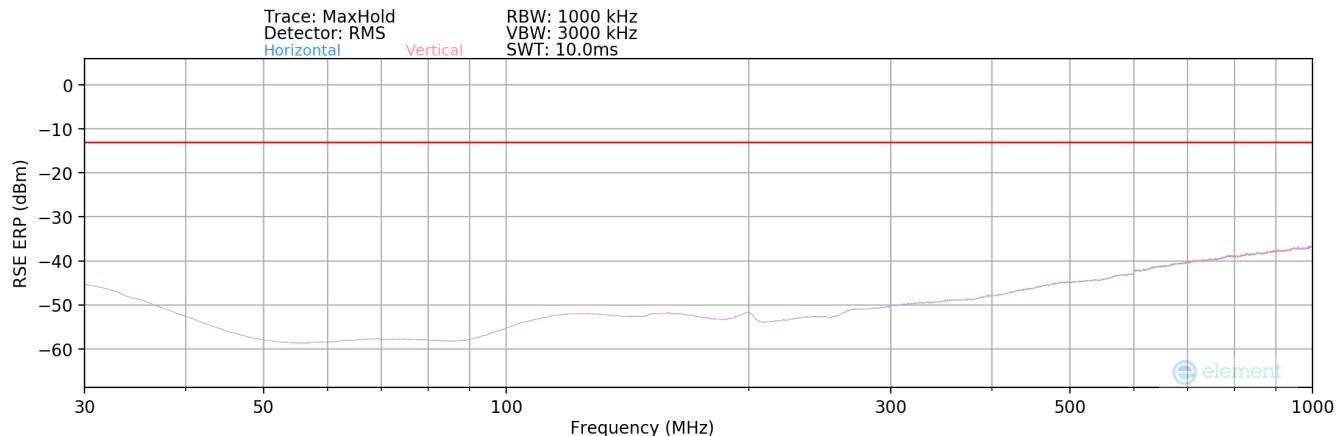
|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
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## Test Notes

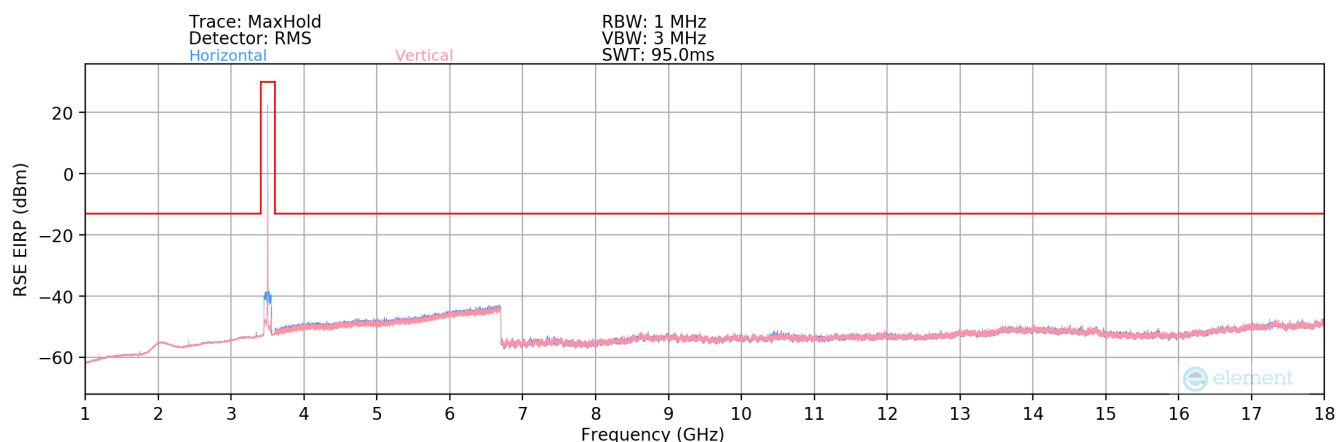
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
  - b)  $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
  - d)  $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$ ; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.
- 8) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device, is subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

|                                                |                                             |                                      |                                          |
|------------------------------------------------|---------------------------------------------|--------------------------------------|------------------------------------------|
| <b>FCC ID:</b> A3LSMF966B                      | <b>PART 27 MEASUREMENT REPORT</b>           |                                      | <b>Approved by:</b><br>Technical Manager |
| <b>Test Report S/N:</b><br>1M2502270019-05.A3L | <b>Test Dates:</b><br>2/24/2025 - 4/30/2025 | <b>EUT Type:</b><br>Portable Handset | Page 145 of 171                          |

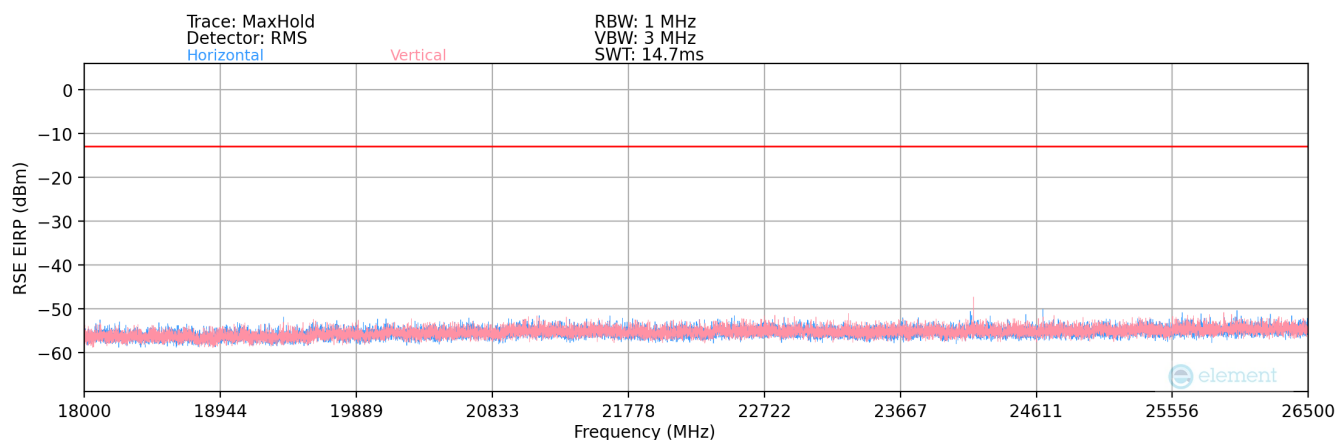
## NR Band n77 – Ant1 – DoD Band – Main



Plot 7-179. Radiated Spurious Plot (NR Band n77) – Ant1 – DoD Band – Main

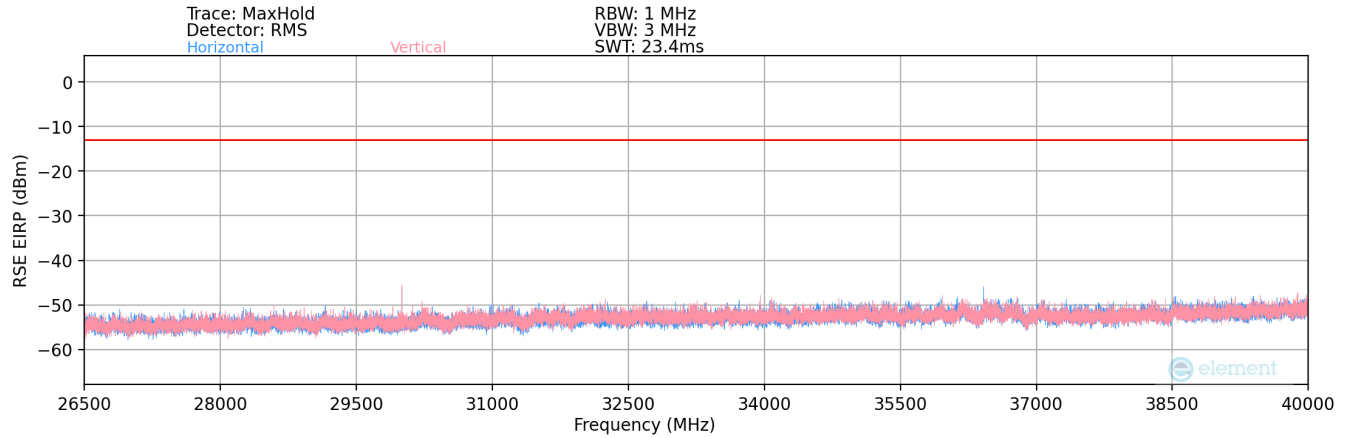


Plot 7-180. Radiated Spurious Plot (NR Band n77) – Ant1 – DoD Band – Main



Plot 7-181. Radiated Spurious Plot (NR Band n77) – Ant1 – DoD Band – Main

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
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**Plot 7-182. Radiated Spurious Plot (NR Band n77) – Ant1 – DoD Band – Main**

|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 100     |
| Frequency (MHz): | 3500.01 |
| RB / Offset:     | 1 / 136 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | ERP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|-----------------------------------|-------------|-------------|
| 797.27          | H               | -                   | -                          | -86.27               | 30.13       | 50.86                   | -46.55                            | -13.00      | -33.55      |

**Table 7-42. Radiated Spurious Data (NR Band n77) – Ant1 – DoD Band – Main**

|                  |         |
|------------------|---------|
| Bandwidth (MHz): | 100     |
| Frequency (MHz): | 3500.01 |
| RB / Offset:     | 1 / 136 |

| Frequency [MHz] | Ant. Pol. [H/V] | Antenna Height [cm] | Turntable Azimuth [degree] | Analyzer Level [dBm] | AFCL [dB/m] | Field Strength [dBμV/m] | EIRP Spurious Emission Level [dBm] | Limit [dBm] | Margin [dB] |
|-----------------|-----------------|---------------------|----------------------------|----------------------|-------------|-------------------------|------------------------------------|-------------|-------------|
| 7000.02         | H               | -                   | -                          | -77.16               | 8.93        | 38.77                   | -56.49                             | -13.00      | -43.49      |
| 10500.03        | H               | -                   | -                          | -79.33               | 12.76       | 40.43                   | -54.83                             | -13.00      | -41.83      |
| 14000.04        | H               | -                   | -                          | -79.56               | 15.88       | 43.32                   | -51.94                             | -13.00      | -38.94      |

**Table 7-43. Radiated Spurious Data (NR Band n77 – Mid Channel) – Ant1 – DoD Band – Main**

|                                         |                                      |                               |                                   |
|-----------------------------------------|--------------------------------------|-------------------------------|-----------------------------------|
| FCC ID: A3LSMF966B                      | PART 27 MEASUREMENT REPORT           |                               | Approved by:<br>Technical Manager |
| Test Report S/N:<br>1M2502270019-05.A3L | Test Dates:<br>2/24/2025 - 4/30/2025 | EUT Type:<br>Portable Handset | Page 147 of 171                   |