

Appendix K –NR 5G Peak-to-average Ratio(PAR)

Test Information:

|             |         |              |                       |
|-------------|---------|--------------|-----------------------|
| Sample No.: | 306X-1  | Test Date:   | 2025/05/05-2025/05/14 |
| Test Site:  | RF      | Test Mode:   | Transmitting          |
| Tester:     | Leo Lin | Test Result: | Pass                  |

Environmental Conditions:

|                      |           |                           |       |                        |             |
|----------------------|-----------|---------------------------|-------|------------------------|-------------|
| Temperature:<br>(°C) | 24.5-25.9 | Relative Humidity:<br>(%) | 37-56 | ATM Pressure:<br>(kPa) | 100.5-101.7 |
|----------------------|-----------|---------------------------|-------|------------------------|-------------|

## Peak-to-average Ratio(PAR)

### FCC Part 22H

**n5, Worst case:**

| Mode                                                       | Result (dB)  | Limit (dB) | Verdict |
|------------------------------------------------------------|--------------|------------|---------|
| n5_20MHz_15kHz_836.5MHz_DFT-s-OFDM<br>$\pi/2$ BPSK_RB100@0 | 6.60         | 13         | Pass    |
| n5_20MHz_15kHz_836.5MHz_DFT-s-OFDM<br>QPSK_RB100@0         | 8.14         | 13         | Pass    |
| n5_20MHz_15kHz_836.5MHz_DFT-s-OFDM<br>16 QAM_RB100@0       | 8.82         | 13         | Pass    |
| n5_20MHz_15kHz_836.5MHz_DFT-s-OFDM<br>64 QAM_RB100@0       | 8.99         | 13         | Pass    |
| n5_20MHz_15kHz_836.5MHz_DFT-s-OFDM<br>256 QAM_RB100@0      | 9.14         | 13         | Pass    |
| n5_20MHz_15kHz_836.5MHz_CP-OFDM<br>QPSK_RB106@0            | 10.81        | 13         | Pass    |
| n5_20MHz_15kHz_836.5MHz_CP-OFDM 16<br>QAM_RB106@0          | 10.75        | 13         | Pass    |
| n5_20MHz_15kHz_836.5MHz_CP-OFDM 64<br>QAM_RB106@0          | 10.79        | 13         | Pass    |
| n5_20MHz_15kHz_836.5MHz_CP-OFDM<br>256 QAM_RB106@0         | <b>10.84</b> | 13         | Pass    |

## FCC Part 24E

### n2, Worst case:

| Mode                                                      | Result (dB) | Limit (dB) | Verdict |
|-----------------------------------------------------------|-------------|------------|---------|
| n2_20MHz_15kHz_1880MHz_DFT-s-OFDM<br>$\pi/2$ BPSK_RB100@0 | 6.76        | 13         | Pass    |
| n2_20MHz_15kHz_1880MHz_DFT-s-OFDM<br>QPSK_RB100@0         | 7.96        | 13         | Pass    |
| n2_20MHz_15kHz_1880MHz_DFT-s-OFDM<br>16 QAM_RB100@0       | 8.68        | 13         | Pass    |
| n2_20MHz_15kHz_1880MHz_DFT-s-OFDM<br>64 QAM_RB100@0       | 8.76        | 13         | Pass    |
| n2_20MHz_15kHz_1880MHz_DFT-s-OFDM<br>256 QAM_RB100@0      | 8.91        | 13         | Pass    |
| n2_20MHz_15kHz_1880MHz_CP-OFDM<br>QPSK_RB106@0            | 10.21       | 13         | Pass    |
| n2_20MHz_15kHz_1880MHz_CP-OFDM 16<br>QAM_RB106@0          | 10.23       | 13         | Pass    |
| n2_20MHz_15kHz_1880MHz_CP-OFDM 64<br>QAM_RB106@0          | 10.48       | 13         | Pass    |
| n2_20MHz_15kHz_1880MHz_CP-OFDM<br>256 QAM_RB106@0         | 10.48       | 13         | Pass    |

## FCC Part 27

### n41, Worst case:

| Mode                                                        | Result (dB)  | Limit (dB) | Verdict |
|-------------------------------------------------------------|--------------|------------|---------|
| n41_100MHz_30kHz_2592.99MHz_DFT-s-OFDM $\pi/2$ BPSK_RB270@0 | 7.95         | 13         | Pass    |
| n41_100MHz_30kHz_2592.99MHz_DFT-s-OFDM QPSK_RB270@0         | 8.39         | 13         | Pass    |
| n41_100MHz_30kHz_2592.99MHz_DFT-s-OFDM 16 QAM_RB270@0       | 9.09         | 13         | Pass    |
| n41_100MHz_30kHz_2592.99MHz_DFT-s-OFDM 64 QAM_RB270@0       | 9.25         | 13         | Pass    |
| n41_100MHz_30kHz_2592.99MHz_DFT-s-OFDM 256 QAM_RB270@0      | 9.22         | 13         | Pass    |
| n41_100MHz_30kHz_2592.99MHz_CP-OFDM QPSK_RB273@0            | 10.72        | 13         | Pass    |
| n41_100MHz_30kHz_2592.99MHz_CP-OFDM 16 QAM_RB273@0          | 10.84        | 13         | Pass    |
| n41_100MHz_30kHz_2592.99MHz_CP-OFDM 64 QAM_RB273@0          | 10.91        | 13         | Pass    |
| n41_100MHz_30kHz_2592.99MHz_CP-OFDM 256 QAM_RB273@0         | <b>10.99</b> | 13         | Pass    |

**n66, Worst case:**

| Mode                                                    | Result (dB)  | Limit (dB) | Verdict |
|---------------------------------------------------------|--------------|------------|---------|
| n66_40MHz_15kHz_1745MHz_DFT-s-OFDM $\pi/2$ BPSK_RB216@0 | 6.74         | 13         | Pass    |
| n66_40MHz_15kHz_1745MHz_DFT-s-OFDM QPSK_RB216@0         | 8.01         | 13         | Pass    |
| n66_40MHz_15kHz_1745MHz_DFT-s-OFDM 16 QAM_RB216@0       | 8.79         | 13         | Pass    |
| n66_40MHz_15kHz_1745MHz_DFT-s-OFDM 64 QAM_RB216@0       | 8.89         | 13         | Pass    |
| n66_40MHz_15kHz_1745MHz_DFT-s-OFDM 256 QAM_RB216@0      | 8.87         | 13         | Pass    |
| n66_40MHz_15kHz_1745MHz_CP-OFDM QPSK_RB216@0            | 10.43        | 13         | Pass    |
| n66_40MHz_15kHz_1745MHz_CP-OFDM 16 QAM_RB216@0          | 10.57        | 13         | Pass    |
| n66_40MHz_15kHz_1745MHz_CP-OFDM 64 QAM_RB216@0          | <b>10.63</b> | 13         | Pass    |
| n66_40MHz_15kHz_1745MHz_CP-OFDM 256 QAM_RB216@0         | 10.52        | 13         | Pass    |

**n71, Worst case:**

| Mode                                                     | Result (dB)  | Limit (dB) | Verdict |
|----------------------------------------------------------|--------------|------------|---------|
| n71_20MHz_15kHz_680.5MHz_DFT-s-OFDM $\pi/2$ BPSK_RB100@0 | 6.82         | 13         | Pass    |
| n71_20MHz_15kHz_680.5MHz_DFT-s-OFDM QPSK_RB100@0         | 8.01         | 13         | Pass    |
| n71_20MHz_15kHz_680.5MHz_DFT-s-OFDM 16 QAM_RB100@0       | 9.02         | 13         | Pass    |
| n71_20MHz_15kHz_680.5MHz_DFT-s-OFDM 64 QAM_RB100@0       | 9.11         | 13         | Pass    |
| n71_20MHz_15kHz_680.5MHz_DFT-s-OFDM 256 QAM_RB100@0      | 8.93         | 13         | Pass    |
| n71_20MHz_15kHz_680.5MHz_CP-OFDM QPSK_RB106@0            | <b>11.35</b> | 13         | Pass    |
| n71_20MHz_15kHz_680.5MHz_CP-OFDM 16 QAM_RB106@0          | 11.25        | 13         | Pass    |
| n71_20MHz_15kHz_680.5MHz_CP-OFDM 64 QAM_RB106@0          | 11.18        | 13         | Pass    |
| n71_20MHz_15kHz_680.5MHz_CP-OFDM 256 QAM_RB106@0         | 10.59        | 13         | Pass    |