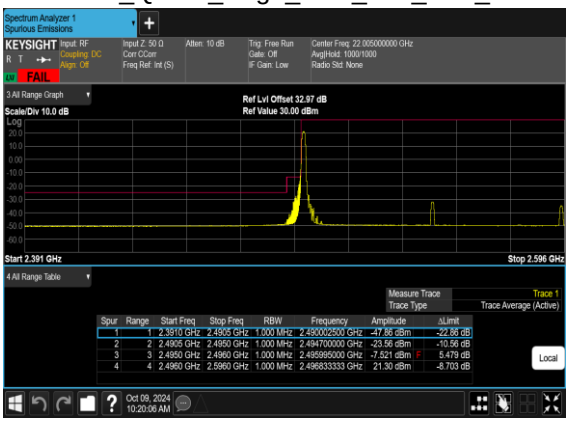
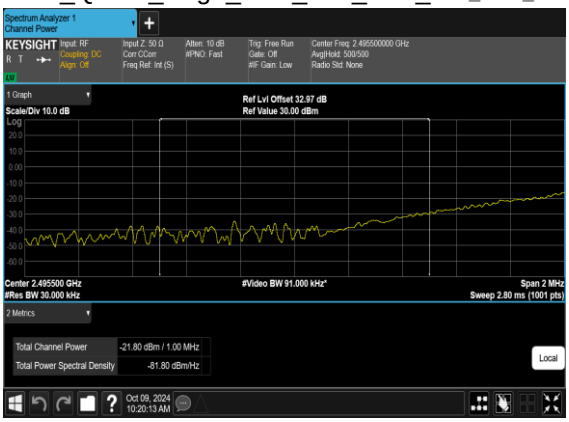
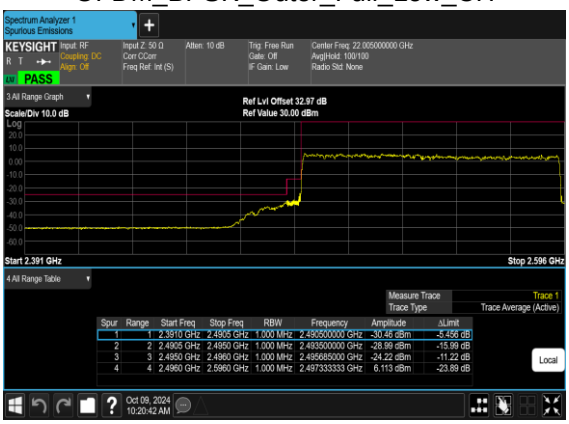
N41(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



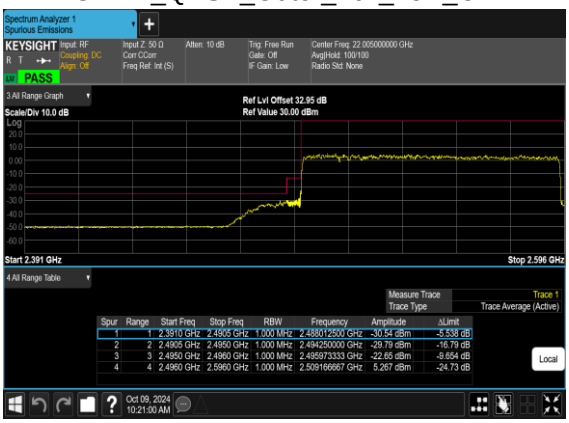

N41(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH_**CHP_PASS**



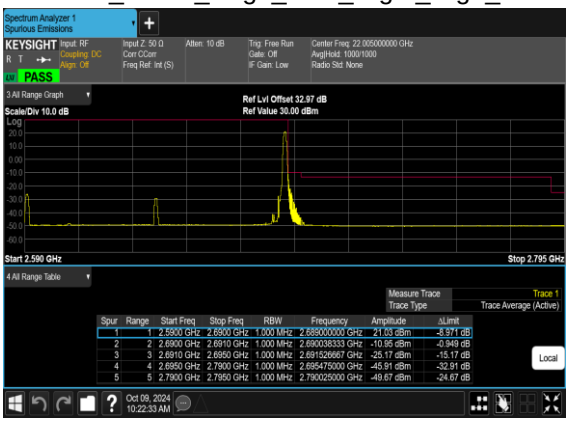

N41(100M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



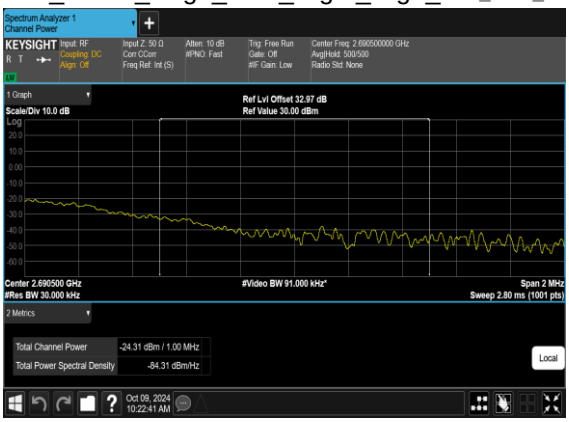

N41(100M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



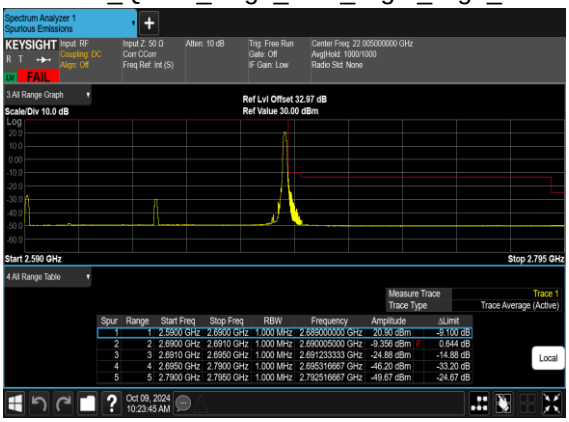

N41(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH



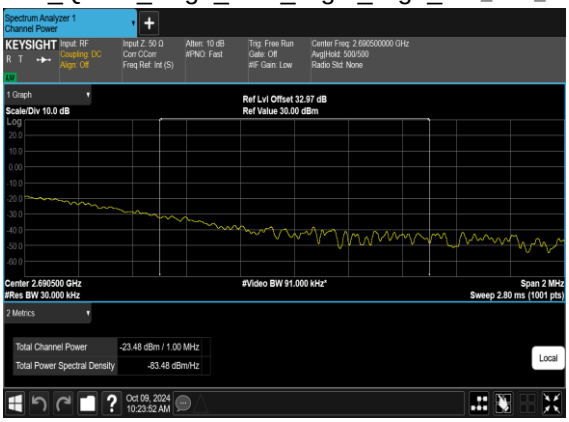

N41(100M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH_**CHP_PASS**



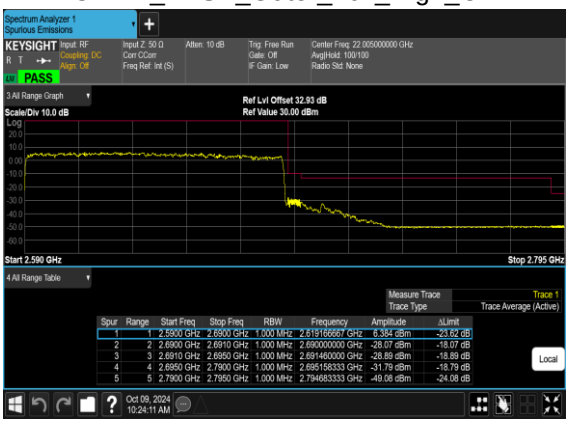
N41(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH



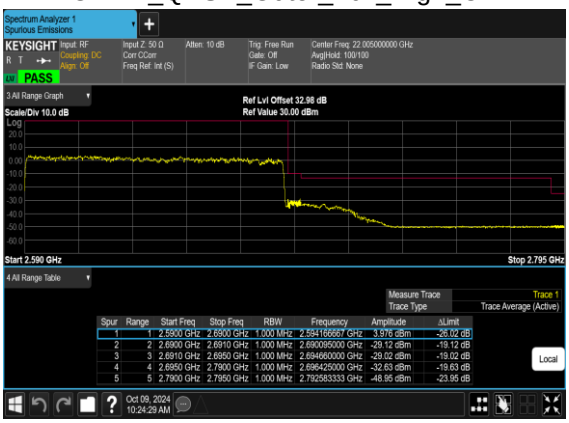

N41(100M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH_**CHP_PASS**




N41(100M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH




N41(100M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

| Test Engineer : | Zhaohui Liang | Temperature : | 22~25℃ |
|---|---|---|---|
| | | Relative Humidity : | 41~42% |

Note: Pre-scanned harmonic for the different antenna combinations, we choose the worst antenna mode to perform final test.

| 5G NR n7 / NR 40MHz / QPSK(ANT0) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 5008 | -57.54 | -25 | -32.54 | -67.75 | 3.03 | 13.24 | H |
| | 7500 | -52.97 | -25 | -27.97 | -62.42 | 3.56 | 13.01 | H |
| | 10006 | -61.04 | -25 | -36.04 | -70.56 | 3.92 | 13.44 | H |
| | 5008 | -57.84 | -25 | -32.84 | -68.05 | 3.03 | 13.24 | V |
| | 7500 | -44.81 | -25 | -19.81 | -54.26 | 3.56 | 13.01 | V |
| | 10006 | -61.17 | -25 | -36.17 | -70.69 | 3.92 | 13.44 | V |
| Middle | 5036 | -59.54 | -25 | -34.54 | -69.75 | 3.03 | 13.24 | H |
| | 7556 | -61.10 | -25 | -36.10 | -70.55 | 3.56 | 13.01 | H |
| | 10062 | -61.07 | -25 | -36.07 | -70.59 | 3.92 | 13.44 | H |
| | 5036 | -57.11 | -25 | -32.11 | -67.32 | 3.03 | 13.24 | V |
| | 7556 | -61.03 | -25 | -36.03 | -70.48 | 3.56 | 13.01 | V |
| | 10062 | -61.10 | -25 | -36.10 | -70.62 | 3.92 | 13.44 | V |
| Highest | 5064 | -59.92 | -25 | -34.92 | -70.13 | 3.03 | 13.24 | H |
| | 7598 | -54.29 | -25 | -29.29 | -63.74 | 3.56 | 13.01 | H |
| | 10132 | -61.07 | -25 | -36.07 | -70.59 | 3.92 | 13.44 | H |
| | 5064 | -59.17 | -25 | -34.17 | -69.38 | 3.03 | 13.24 | V |
| | 7598 | -46.05 | -25 | -21.05 | -55.50 | 3.56 | 13.01 | V |
| | 10132 | -61.49 | -25 | -36.49 | -71.01 | 3.92 | 13.44 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-DC_12A_n7A / LTE 10MHz + NR 40MHz / QPSK (ANT1+0) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 5008 | -59.54 | -25 | -34.54 | -69.75 | 3.03 | 13.24 | H |
| | 7500 | -61.95 | -25 | -36.95 | -71.40 | 3.56 | 13.01 | H |
| | 10006 | -62.07 | -25 | -37.07 | -71.59 | 3.92 | 13.44 | H |
| | 5008 | -59.32 | -25 | -34.32 | -69.53 | 3.03 | 13.24 | V |
| | 7500 | -52.40 | -25 | -27.40 | -61.85 | 3.56 | 13.01 | V |
| | 10006 | -62.16 | -25 | -37.16 | -71.68 | 3.92 | 13.44 | V |
| Middle | 5036 | -60.69 | -25 | -35.69 | -70.90 | 3.03 | 13.24 | H |
| | 7556 | -62.17 | -25 | -37.17 | -71.62 | 3.56 | 13.01 | H |
| | 10062 | -62.87 | -25 | -37.87 | -72.39 | 3.92 | 13.44 | H |
| | 5036 | -62.04 | -25 | -37.04 | -72.25 | 3.03 | 13.24 | V |
| | 7556 | -62.51 | -25 | -37.51 | -71.96 | 3.56 | 13.01 | V |
| | 10062 | -62.94 | -25 | -37.94 | -72.46 | 3.92 | 13.44 | V |
| Highest | 5064 | -60.15 | -25 | -35.15 | -70.36 | 3.03 | 13.24 | H |
| | 7598 | -50.26 | -25 | -25.26 | -59.71 | 3.56 | 13.01 | H |
| | 10132 | -62.17 | -25 | -37.17 | -71.69 | 3.92 | 13.44 | H |
| | 5064 | -61.50 | -25 | -36.50 | -71.71 | 3.03 | 13.24 | V |
| | 7598 | -45.64 | -25 | -20.64 | -55.09 | 3.56 | 13.01 | V |
| | 10132 | -62.05 | -25 | -37.05 | -71.57 | 3.92 | 13.44 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| 5G NR n12 / NR 15MHz / QPSK(ANT1) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 1400 | -64.43 | -13 | -51.43 | -71.40 | 1.58 | 10.70 | H |
| | 2096 | -59.55 | -13 | -46.55 | -67.80 | 2.102 | 12.50 | H |
| | 2800 | -56.01 | -13 | -43.01 | -64.90 | 2.856 | 13.90 | H |
| | 1400 | -63.38 | -13 | -50.38 | -70.35 | 1.58 | 10.70 | V |
| | 2096 | -58.63 | -13 | -45.63 | -66.88 | 2.10 | 12.50 | V |
| | 2800 | -55.57 | -13 | -42.57 | -64.46 | 2.86 | 13.90 | V |
| Middle | 1400 | -64.55 | -13 | -51.55 | -71.52 | 1.58 | 10.70 | H |
| | 2104 | -60.22 | -13 | -47.22 | -68.47 | 2.102 | 12.50 | H |
| | 2800 | -56.29 | -13 | -43.29 | -65.18 | 2.856 | 13.90 | H |
| | 1400 | -63.85 | -13 | -50.85 | -70.82 | 1.58 | 10.70 | V |
| | 2104 | -59.03 | -13 | -46.03 | -67.28 | 2.10 | 12.50 | V |
| | 2800 | -56.15 | -13 | -43.15 | -65.04 | 2.86 | 13.90 | V |
| Highest | 1400 | -64.96 | -13 | -51.96 | -71.93 | 1.58 | 10.70 | H |
| | 2104 | -59.98 | -13 | -46.98 | -68.23 | 2.102 | 12.50 | H |
| | 2808 | -56.63 | -13 | -43.63 | -65.52 | 2.856 | 13.90 | H |
| | 1400 | -64.16 | -13 | -51.16 | -71.13 | 1.58 | 10.70 | V |
| | 2104 | -59.34 | -13 | -46.34 | -67.59 | 2.10 | 12.50 | V |
| | 2808 | -56.12 | -13 | -43.12 | -65.01 | 2.86 | 13.90 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-DC_2A_n12A / LTE 20MHz + NR 15MHz / QPSK (ANT0+1) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 1400 | -65.00 | -13 | -52.00 | -71.97 | 1.58 | 10.70 | H |
| | 2096 | -59.42 | -13 | -46.42 | -67.67 | 2.102 | 12.50 | H |
| | 2800 | -57.00 | -13 | -44.00 | -65.89 | 2.856 | 13.90 | H |
| | 1400 | -64.42 | -13 | -51.42 | -71.39 | 1.58 | 10.70 | V |
| | 2096 | -57.82 | -13 | -44.82 | -66.07 | 2.10 | 12.50 | V |
| | 2800 | -56.64 | -13 | -43.64 | -65.53 | 2.86 | 13.90 | V |
| Middle | 1400 | -65.24 | -13 | -52.24 | -72.21 | 1.58 | 10.70 | H |
| | 2104 | -56.55 | -13 | -43.55 | -64.80 | 2.102 | 12.50 | H |
| | 2800 | -56.75 | -13 | -43.75 | -65.64 | 2.856 | 13.90 | H |
| | 1400 | -64.51 | -13 | -51.51 | -71.48 | 1.58 | 10.70 | V |
| | 2104 | -55.95 | -13 | -42.95 | -64.20 | 2.10 | 12.50 | V |
| | 2800 | -56.79 | -13 | -43.79 | -65.68 | 2.86 | 13.90 | V |
| Highest | 1400 | -64.47 | -13 | -51.47 | -71.44 | 1.58 | 10.70 | H |
| | 2104 | -51.76 | -13 | -38.76 | -60.01 | 2.102 | 12.50 | H |
| | 2808 | -57.28 | -13 | -44.28 | -66.17 | 2.856 | 13.90 | H |
| | 1400 | -64.79 | -13 | -51.79 | -71.76 | 1.58 | 10.70 | V |
| | 2104 | -50.29 | -13 | -37.29 | -58.54 | 2.10 | 12.50 | V |
| | 2808 | -56.53 | -13 | -43.53 | -65.42 | 2.86 | 13.90 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| 5G NR n13 / NR 10MHz / QPSK(ANT1) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Middle | 1552 | -63.37 | -13 | -50.37 | -66.00 | 1.09 | 5.87 | H |
| | 2336 | -56.91 | -13 | -43.91 | -59.31 | 1.37 | 5.92 | H |
| | 3112 | -57.07 | -13 | -44.07 | -60.96 | 1.64 | 7.68 | H |
| | 1552 | -63.83 | -13 | -50.83 | -66.46 | 1.09 | 5.87 | V |
| | 2336 | -58.46 | -13 | -45.46 | -60.86 | 1.37 | 5.92 | V |
| | 3112 | -57.53 | -13 | -44.53 | -61.42 | 1.64 | 7.68 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| 5G NR n41 / NR 100MHz / QPSK(ANT0) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 5008 | -61.86 | -25 | -36.86 | -72.07 | 3.03 | 13.24 | H |
| | 7500 | -57.31 | -25 | -32.31 | -66.76 | 3.56 | 13.01 | H |
| | 10006 | -61.31 | -25 | -36.31 | -70.83 | 3.92 | 13.44 | H |
| | 5008 | -62.05 | -25 | -37.05 | -72.26 | 3.03 | 13.24 | V |
| | 7500 | -55.17 | -25 | -30.17 | -64.62 | 3.56 | 13.01 | V |
| | 10006 | -61.47 | -25 | -36.47 | -70.99 | 3.92 | 13.44 | V |
| Middle | 5092 | -58.33 | -25 | -33.33 | -68.54 | 3.03 | 13.24 | H |
| | 7640 | -43.34 | -25 | -18.34 | -52.79 | 3.56 | 13.01 | H |
| | 10188 | -59.68 | -25 | -34.68 | -69.20 | 3.92 | 13.44 | H |
| | 5092 | -58.77 | -25 | -33.77 | -68.98 | 3.03 | 13.24 | V |
| | 7640 | -38.94 | -25 | -13.94 | -48.39 | 3.56 | 13.01 | V |
| | 10188 | -59.98 | -25 | -34.98 | -69.50 | 3.92 | 13.44 | V |
| Highest | 5190 | -62.11 | -25 | -37.11 | -72.32 | 3.03 | 13.24 | H |
| | 7780 | -49.87 | -25 | -24.87 | -59.32 | 3.56 | 13.01 | H |
| | 10384 | -59.92 | -25 | -34.92 | -69.44 | 3.92 | 13.44 | H |
| | 5190 | -62.58 | -25 | -37.58 | -72.79 | 3.03 | 13.24 | V |
| | 7780 | -45.95 | -25 | -20.95 | -55.40 | 3.56 | 13.01 | V |
| | 10384 | -59.46 | -25 | -34.46 | -68.98 | 3.92 | 13.44 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-DC_26A_n41A / LTE 15MHz + NR 100MHz / QPSK (ANT1+0) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 5008 | -61.95 | -25 | -36.95 | -72.16 | 3.03 | 13.24 | H |
| | 7500 | -62.46 | -25 | -37.46 | -71.91 | 3.56 | 13.01 | H |
| | 10006 | -62.47 | -25 | -37.47 | -71.99 | 3.92 | 13.44 | H |
| | 5008 | -62.18 | -25 | -37.18 | -72.39 | 3.03 | 13.24 | V |
| | 7500 | -62.26 | -25 | -37.26 | -71.71 | 3.56 | 13.01 | V |
| | 10006 | -62.74 | -25 | -37.74 | -72.26 | 3.92 | 13.44 | V |
| Middle | 5092 | -61.77 | -25 | -36.77 | -71.98 | 3.03 | 13.24 | H |
| | 7640 | -61.86 | -25 | -36.86 | -71.31 | 3.56 | 13.01 | H |
| | 10188 | -61.45 | -25 | -36.45 | -70.97 | 3.92 | 13.44 | H |
| | 5092 | -62.52 | -25 | -37.52 | -72.73 | 3.03 | 13.24 | V |
| | 7640 | -61.98 | -25 | -36.98 | -71.43 | 3.56 | 13.01 | V |
| | 10188 | -61.54 | -25 | -36.54 | -71.06 | 3.92 | 13.44 | V |
| Highest | 5190 | -63.03 | -25 | -38.03 | -73.24 | 3.03 | 13.24 | H |
| | 7780 | -61.77 | -25 | -36.77 | -71.22 | 3.56 | 13.01 | H |
| | 10384 | -60.75 | -25 | -35.75 | -70.27 | 3.92 | 13.44 | H |
| | 5190 | -63.49 | -25 | -38.49 | -73.70 | 3.03 | 13.24 | V |
| | 7780 | -61.81 | -25 | -36.81 | -71.26 | 3.56 | 13.01 | V |
| | 10384 | -61.09 | -25 | -36.09 | -70.61 | 3.92 | 13.44 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-DC_25A_n41A / LTE 20MHz + NR 100MHz / QPSK (ANT0+2) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 5008 | -62.20 | -25 | -37.20 | -72.41 | 3.03 | 13.24 | H |
| | 7500 | -62.27 | -25 | -37.27 | -71.72 | 3.56 | 13.01 | H |
| | 10006 | -62.74 | -25 | -37.74 | -72.26 | 3.92 | 13.44 | H |
| | 5008 | -62.08 | -25 | -37.08 | -72.29 | 3.03 | 13.24 | V |
| | 7500 | -62.50 | -25 | -37.50 | -71.95 | 3.56 | 13.01 | V |
| | 10006 | -62.70 | -25 | -37.70 | -72.22 | 3.92 | 13.44 | V |
| Middle | 5092 | -61.95 | -25 | -36.95 | -72.16 | 3.03 | 13.24 | H |
| | 7640 | -61.27 | -25 | -36.27 | -70.72 | 3.56 | 13.01 | H |
| | 10188 | -61.17 | -25 | -36.17 | -70.69 | 3.92 | 13.44 | H |
| | 5092 | -62.72 | -25 | -37.72 | -72.93 | 3.03 | 13.24 | V |
| | 7640 | -61.32 | -25 | -36.32 | -70.77 | 3.56 | 13.01 | V |
| | 10188 | -61.45 | -25 | -36.45 | -70.97 | 3.92 | 13.44 | V |
| Highest | 5190 | -63.12 | -25 | -38.12 | -73.33 | 3.03 | 13.24 | H |
| | 7780 | -61.58 | -25 | -36.58 | -71.03 | 3.56 | 13.01 | H |
| | 10370 | -59.87 | -25 | -34.87 | -69.39 | 3.92 | 13.44 | H |
| | 5190 | -62.79 | -25 | -37.79 | -73.00 | 3.03 | 13.24 | V |
| | 7780 | -61.76 | -25 | -36.76 | -71.21 | 3.56 | 13.01 | V |
| | 10370 | -55.90 | -25 | -30.90 | -65.42 | 3.92 | 13.44 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| 5G NR n71 / NR 20MHz / QPSK(ANT1) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 1328 | -67.25 | -13 | -54.25 | -69.00 | 1.02 | 4.92 | H |
| | 1992 | -59.90 | -13 | -46.90 | -61.87 | 1.27 | 5.39 | H |
| | 2656 | -60.58 | -13 | -47.58 | -63.51 | 1.49 | 6.57 | H |
| | 1328 | -66.37 | -13 | -53.37 | -68.12 | 1.02 | 4.92 | V |
| | 1992 | -60.16 | -13 | -47.16 | -62.13 | 1.27 | 5.39 | V |
| | 2656 | -59.95 | -13 | -46.95 | -62.88 | 1.49 | 6.57 | V |
| Middle | 1344 | -67.20 | -13 | -54.20 | -68.95 | 1.02 | 4.92 | H |
| | 2016 | -61.54 | -13 | -48.54 | -63.51 | 1.27 | 5.39 | H |
| | 2688 | -59.03 | -13 | -46.03 | -61.96 | 1.49 | 6.57 | H |
| | 1344 | -66.63 | -13 | -53.63 | -68.38 | 1.02 | 4.92 | V |
| | 2016 | -60.80 | -13 | -47.80 | -62.77 | 1.27 | 5.39 | V |
| | 2688 | -58.58 | -13 | -45.58 | -61.51 | 1.49 | 6.57 | V |
| Highest | 1360 | -67.33 | -13 | -54.33 | -69.08 | 1.02 | 4.92 | H |
| | 2040 | -62.23 | -13 | -49.23 | -64.20 | 1.27 | 5.39 | H |
| | 2720 | -59.24 | -13 | -46.24 | -62.17 | 1.49 | 6.57 | H |
| | 1360 | -66.20 | -13 | -53.20 | -67.95 | 1.02 | 4.92 | V |
| | 2040 | -61.25 | -13 | -48.25 | -63.22 | 1.27 | 5.39 | V |
| | 2720 | -58.94 | -13 | -45.94 | -61.87 | 1.49 | 6.57 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.

| EN-DC_7A_n71A / LTE 20MHz + NR 20MHz / QPSK (ANT0+1) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Channel | Frequency ( MHz ) | ERP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| Lowest | 1328 | -68.01 | -13 | -55.01 | -69.76 | 1.02 | 4.92 | H |
| | 1992 | -62.62 | -13 | -49.62 | -64.59 | 1.27 | 5.39 | H |
| | 2656 | -49.60 | -13 | -36.60 | -52.53 | 1.49 | 6.57 | H |
| | 1328 | -67.45 | -13 | -54.45 | -69.20 | 1.02 | 4.92 | V |
| | 1992 | -62.81 | -13 | -49.81 | -64.78 | 1.27 | 5.39 | V |
| | 2656 | -53.06 | -13 | -40.06 | -55.99 | 1.49 | 6.57 | V |
| Middle | 1344 | -67.58 | -13 | -54.58 | -69.33 | 1.02 | 4.92 | H |
| | 2016 | -62.65 | -13 | -49.65 | -64.62 | 1.27 | 5.39 | H |
| | 2688 | -59.66 | -13 | -46.66 | -62.59 | 1.49 | 6.57 | H |
| | 1344 | -67.47 | -13 | -54.47 | -69.22 | 1.02 | 4.92 | V |
| | 2016 | -62.25 | -13 | -49.25 | -64.22 | 1.27 | 5.39 | V |
| | 2688 | -59.87 | -13 | -46.87 | -62.80 | 1.49 | 6.57 | V |
| Highest | 1360 | -66.66 | -13 | -53.66 | -68.41 | 1.02 | 4.92 | H |
| | 2040 | -62.55 | -13 | -49.55 | -64.52 | 1.27 | 5.39 | H |
| | 2720 | -59.26 | -13 | -46.26 | -62.19 | 1.49 | 6.57 | H |
| | 1360 | -66.90 | -13 | -53.90 | -68.65 | 1.02 | 4.92 | V |
| | 2040 | -62.09 | -13 | -49.09 | -64.06 | 1.27 | 5.39 | V |
| | 2720 | -60.19 | -13 | -47.19 | -63.12 | 1.49 | 6.57 | V |

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.