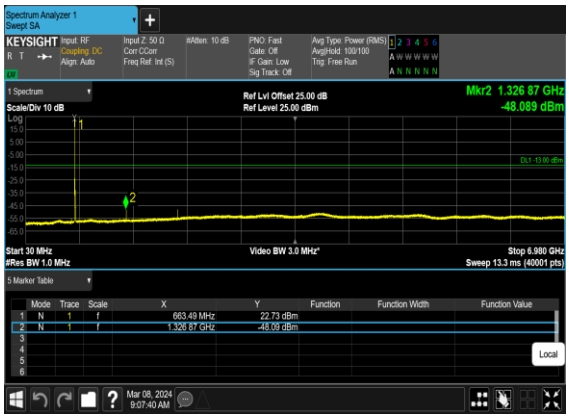
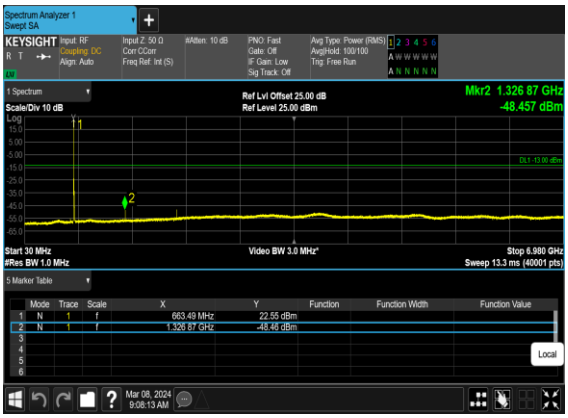
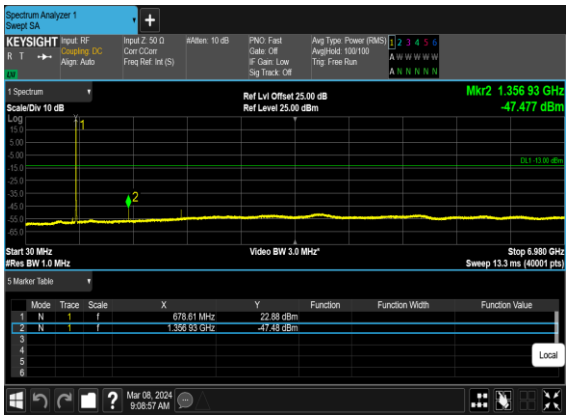
N71(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



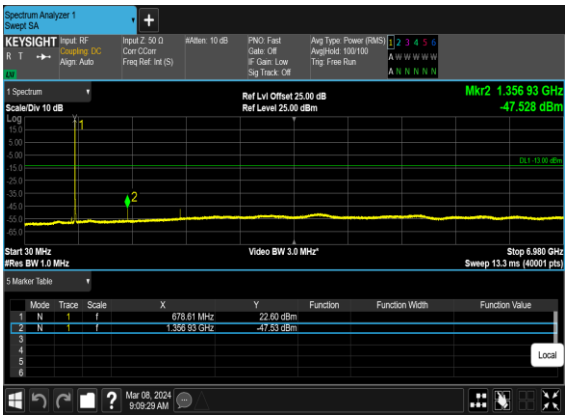

N71(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



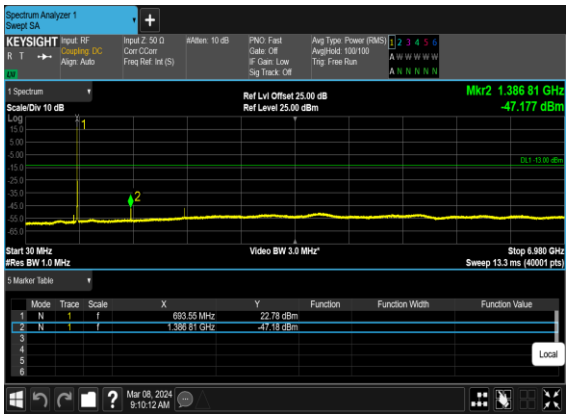

N71(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



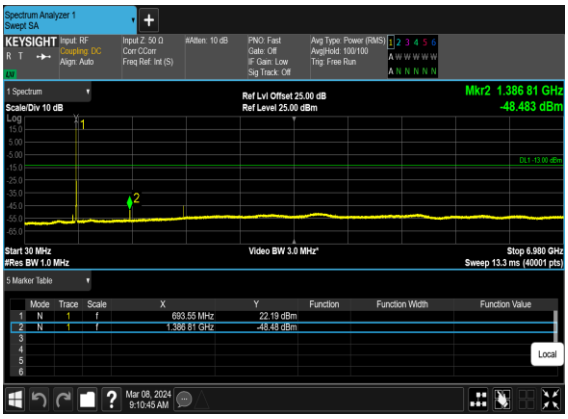

N71(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



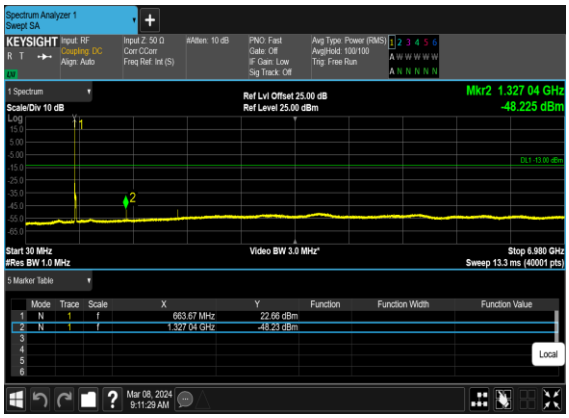

N71(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



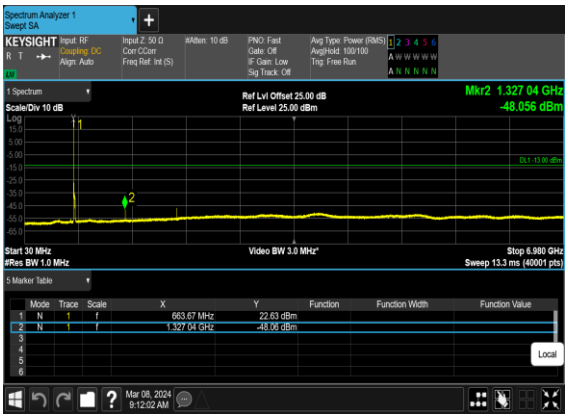

N71(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



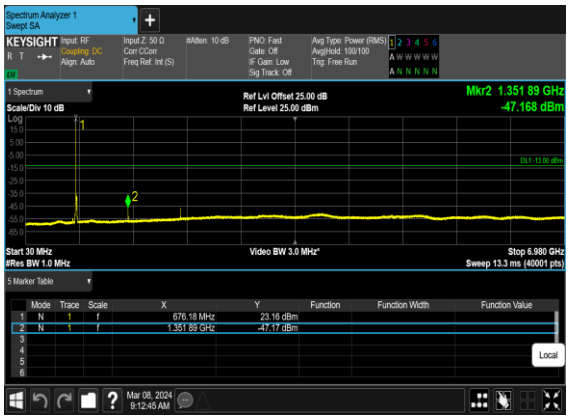
N71(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



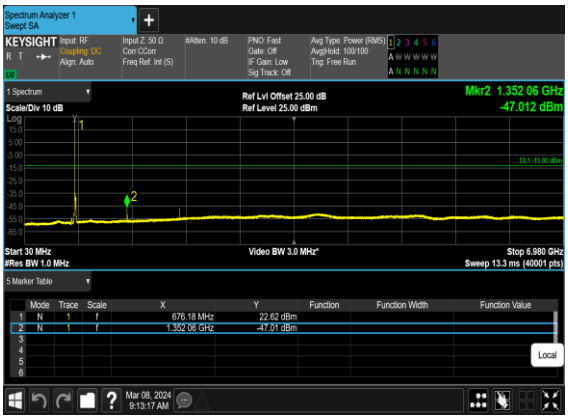

N71(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



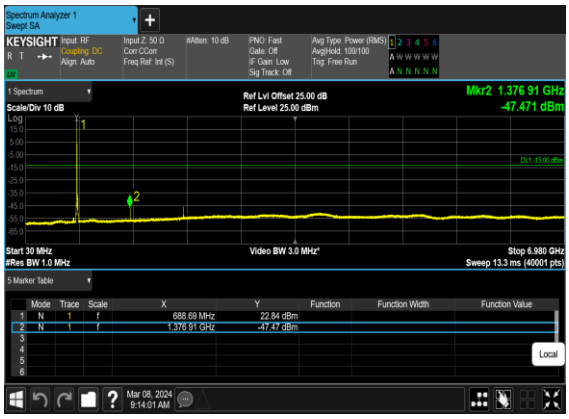

N71(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



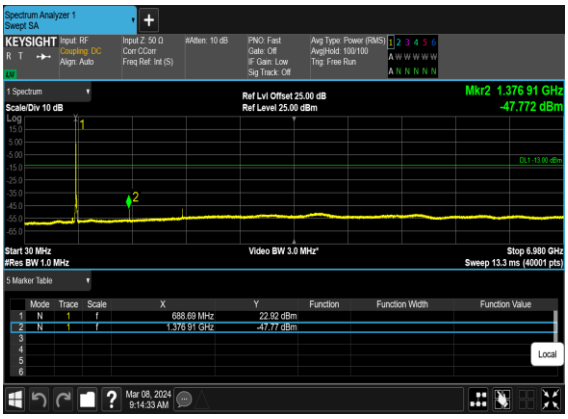

N71(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH



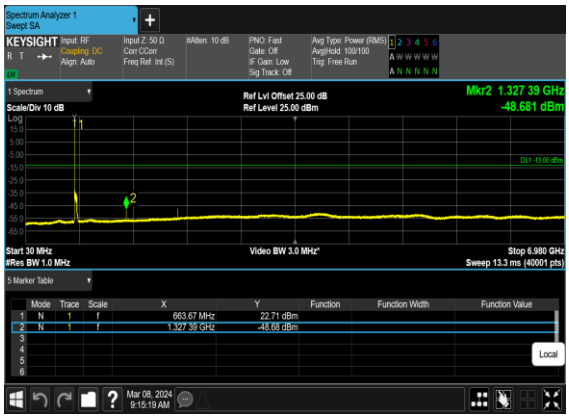

N71(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



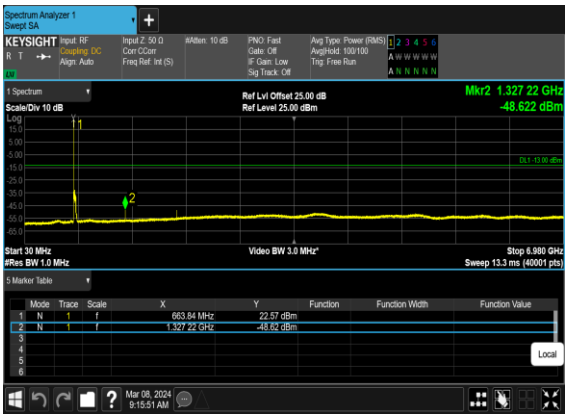

N71(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



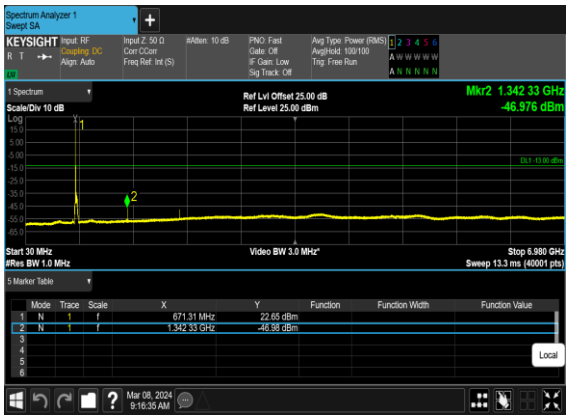
N71(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



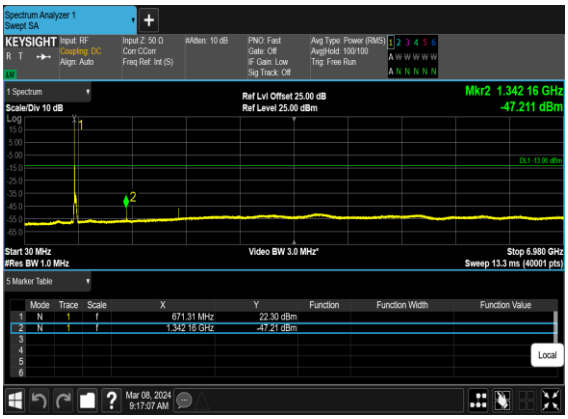

N71(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



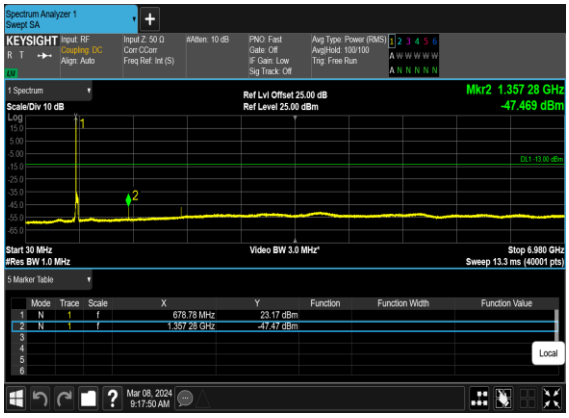

N71(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Mid_CH



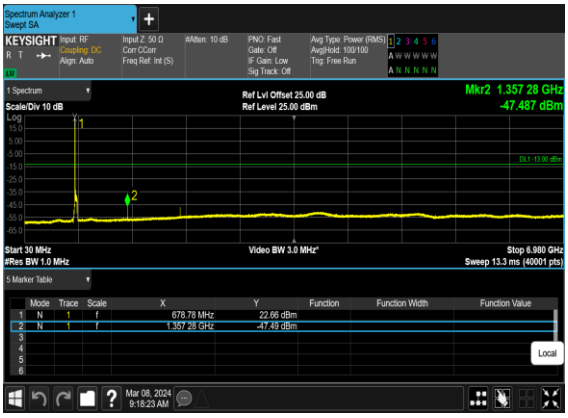

N71(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Mid_CH




N71(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_High_CH



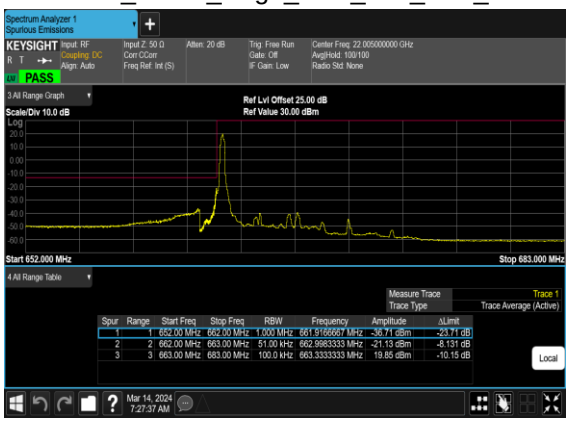

N71(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_High_CH



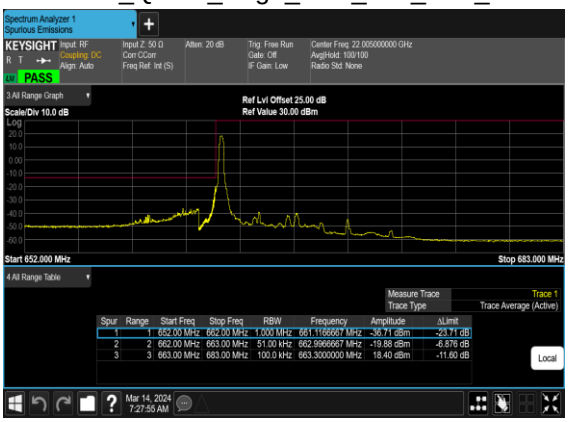
# Conducted Band Edge

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn | Freq (MHz) | Modulation | RB | Result | Verdict |
|---|---|---|---|---|---|---|---|---|
| **71** | 15 | 5 | 133100 | 665.5 | DFT-s-OFDM BPSK | 1@0 | see graph | **PASS** |
| **71** | 15 | 5 | 133100 | 665.5 | DFT-s-OFDM QPSK | 1@0 | see graph | **PASS** |
| **71** | 15 | 5 | 133100 | 665.5 | DFT-s-OFDM BPSK | 25@0 | see graph | **PASS** |
| **71** | 15 | 5 | 133100 | 665.5 | DFT-s-OFDM QPSK | 25@0 | see graph | **PASS** |
| **71** | 15 | 5 | 139100 | 695.5 | DFT-s-OFDM BPSK | 1@24 | see graph | **PASS** |
| **71** | 15 | 5 | 139100 | 695.5 | DFT-s-OFDM QPSK | 1@24 | see graph | **PASS** |
| **71** | 15 | 5 | 139100 | 695.5 | DFT-s-OFDM BPSK | 25@0 | see graph | **PASS** |
| **71** | 15 | 5 | 139100 | 695.5 | DFT-s-OFDM QPSK | 25@0 | see graph | **PASS** |
| **71** | 15 | 10 | 133600 | 668.0 | DFT-s-OFDM BPSK | 1@0 | see graph | **PASS** |
| **71** | 15 | 10 | 133600 | 668.0 | DFT-s-OFDM QPSK | 1@0 | see graph | **PASS** |
| **71** | 15 | 10 | 133600 | 668.0 | DFT-s-OFDM BPSK | 50@0 | see graph | **PASS** |
| **71** | 15 | 10 | 133600 | 668.0 | DFT-s-OFDM QPSK | 50@0 | see graph | **PASS** |
| **71** | 15 | 10 | 138600 | 693.0 | DFT-s-OFDM BPSK | 1@51 | see graph | **PASS** |
| **71** | 15 | 10 | 138600 | 693.0 | DFT-s-OFDM QPSK | 1@51 | see graph | **PASS** |
| **71** | 15 | 10 | 138600 | 693.0 | DFT-s-OFDM BPSK | 50@0 | see graph | **PASS** |
| **71** | 15 | 10 | 138600 | 693.0 | DFT-s-OFDM QPSK | 50@0 | see graph | **PASS** |
| **71** | 15 | 20 | 134600 | 673.0 | DFT-s-OFDM BPSK | 1@0 | see graph | **PASS** |
| **71** | 15 | 20 | 134600 | 673.0 | DFT-s-OFDM QPSK | 1@0 | see graph | **PASS** |
| **71** | 15 | 20 | 134600 | 673.0 | DFT-s-OFDM BPSK | 100@0 | see graph | **PASS** |
| **71** | 15 | 20 | 134600 | 673.0 | DFT-s-OFDM QPSK | 100@0 | see graph | **PASS** |
| **71** | 15 | 20 | 137600 | 688.0 | DFT-s-OFDM BPSK | 1@105 | see graph | **PASS** |
| **71** | 15 | 20 | 137600 | 688.0 | DFT-s-OFDM QPSK | 1@105 | see graph | **PASS** |
| **71** | 15 | 20 | 137600 | 688.0 | DFT-s-OFDM BPSK | 100@0 | see graph | **PASS** |
| **71** | 15 | 20 | 137600 | 688.0 | DFT-s-OFDM QPSK | 100@0 | see graph | **PASS** |

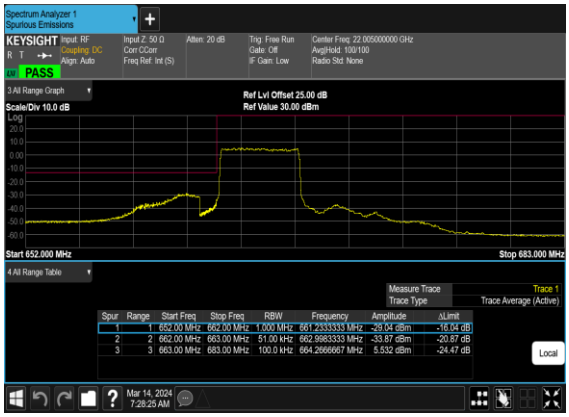
N71(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



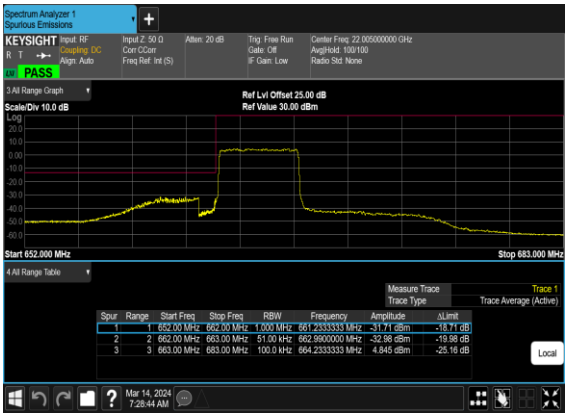

N71(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH




N71(5M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH




N71(5M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



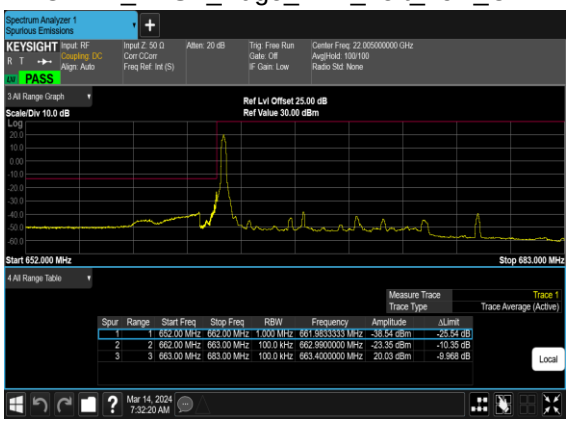

N71(5M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH


N71(5M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

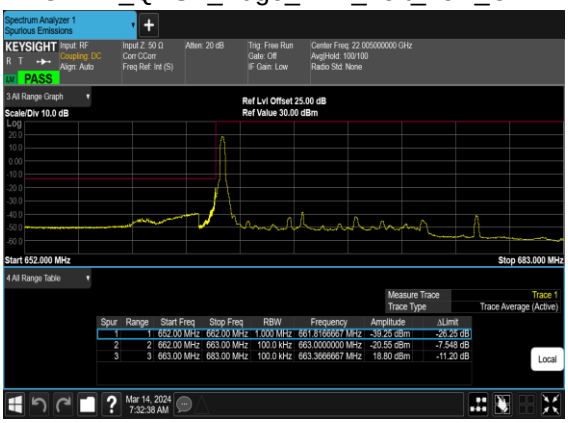
N71(5M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH


N71(5M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

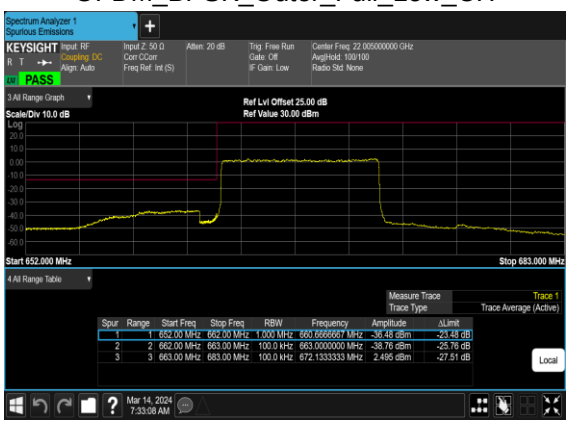

N71(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



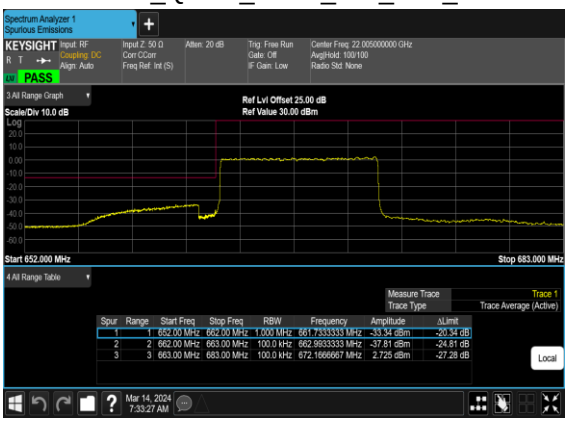

N71(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH




N71(10M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH




N71(10M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH



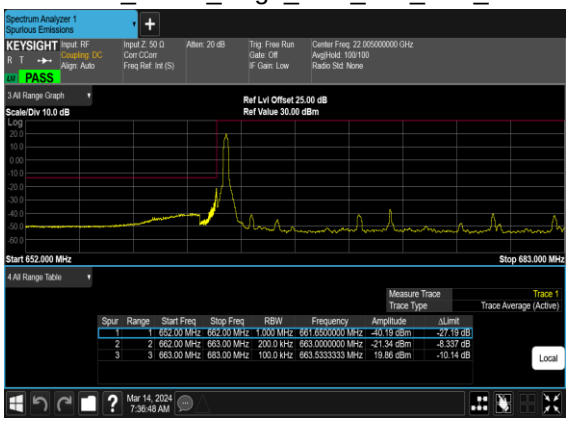
N71(10M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH


N71(10M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH

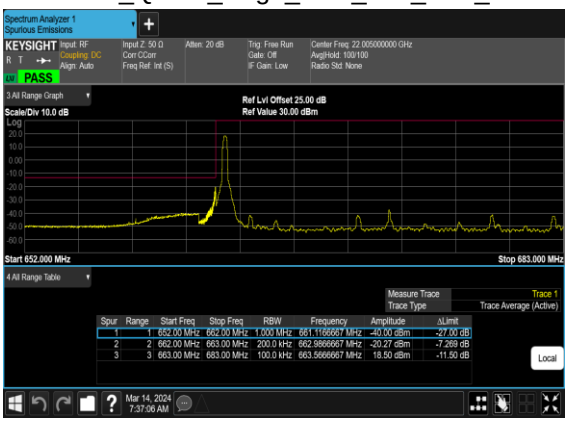

N71(10M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH


N71(10M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH

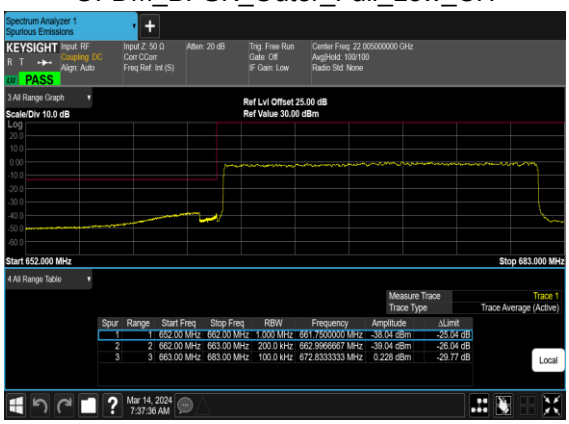

N71(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Left_Low_CH



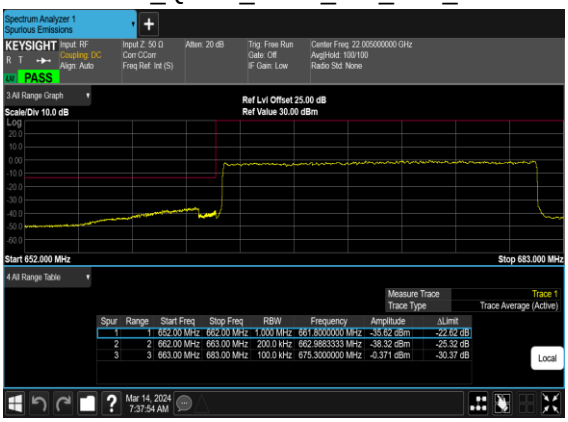

N71(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Left_Low_CH



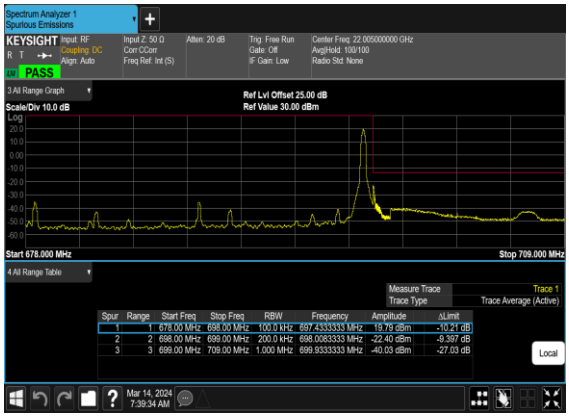
N71(20M)_DFT-s-OFDM_BPSK_Outer_Full_Low_CH



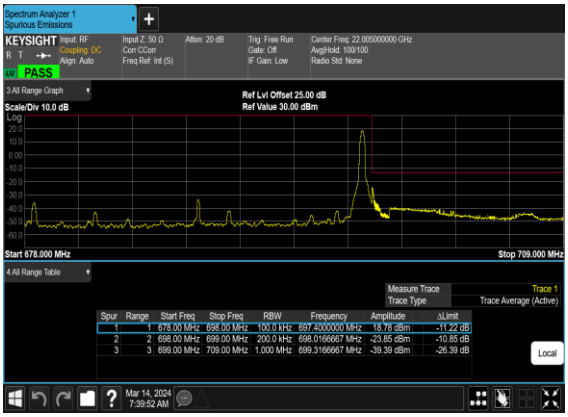

N71(20M)_DFT-s-OFDM_QPSK_Outer_Full_Low_CH




N71(20M)_DFT-s-OFDM_BPSK_Edge_1RB_Right_High_CH

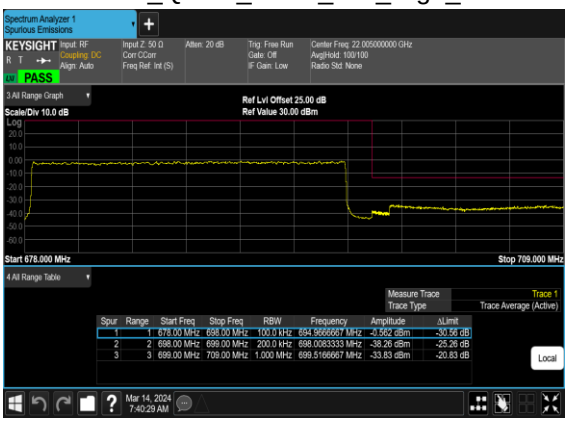



N71(20M)_DFT-s-OFDM_QPSK_Edge_1RB_Right_High_CH




N71(20M)_DFT-s-OFDM_BPSK_Outer_Full_High_CH


N71(20M)_DFT-s-OFDM_QPSK_Outer_Full_High_CH



# Appendix B. Test Results of Radiated Test

## Radiated Spurious Emission

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

| n12 SA / NR 15MHz / QPSK(ANT0) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 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 | 1400 | -68.00 | -13 | -55.00 | -74.97 | 1.58 | 10.70 | H |
| | 2104 | -63.01 | -13 | -50.01 | -71.26 | 2.102 | 12.50 | H |
| | 2800 | -59.45 | -13 | -46.45 | -68.34 | 2.856 | 13.90 | H |
| | 1400 | -67.61 | -13 | -54.61 | -74.58 | 1.58 | 10.70 | V |
| | 2104 | -62.28 | -13 | -49.28 | -70.53 | 2.10 | 12.50 | V |
| | 2800 | -59.50 | -13 | -46.50 | -68.39 | 2.86 | 13.90 | V |

| EN-DC_7A_n12A / LTE 10MHz + NR 15MHz / QPSK (ANT2+0) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 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 | 1400 | -67.94 | -13 | -54.94 | -74.91 | 1.58 | 10.70 | H |
| | 2104 | -62.21 | -13 | -49.21 | -70.46 | 2.102 | 12.50 | H |
| | 2800 | -58.87 | -13 | -45.87 | -67.76 | 2.856 | 13.90 | H |
| | 1400 | -67.45 | -13 | -54.45 | -74.42 | 1.58 | 10.70 | V |
| | 2104 | -61.54 | -13 | -48.54 | -69.79 | 2.10 | 12.50 | V |
| | 2800 | -58.32 | -13 | -45.32 | -67.21 | 2.86 | 13.90 | V |

| n66 SA / NR 40MHz / QPSK(ANT2) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 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) |
| Middle | 3450 | -64.49 | -13 | -51.49 | -75.23 | 2.604 | 13.34 | H |
| | 5175 | -56.55 | -13 | -43.55 | -67.06 | 3.011 | 13.52 | H |
| | 6915 | -63.13 | -13 | -50.13 | -73.33 | 3.271 | 13.47 | H |
| | 3450 | -66.31 | -13 | -53.31 | -77.05 | 2.604 | 13.34 | V |
| | 5175 | -51.88 | -13 | -38.88 | -62.39 | 3.011 | 13.52 | V |
| | 6915 | -63.34 | -13 | -50.34 | -73.54 | 3.271 | 13.47 | V |

| EN-DC_25A_n66A / LTE 10MHz + NR 40MHz / QPSK (ANT2+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) |
| Middle | 3450 | -64.22 | -13 | -51.22 | -74.96 | 2.604 | 13.34 | H |
| | 5175 | -62.38 | -13 | -49.38 | -72.89 | 3.011 | 13.52 | H |
| | 6915 | -62.41 | -13 | -49.41 | -72.61 | 3.271 | 13.47 | H |
| | 3450 | -65.65 | -13 | -52.65 | -76.39 | 2.604 | 13.34 | V |
| | 5175 | -62.17 | -13 | -49.17 | -72.68 | 3.011 | 13.52 | V |
| | 6915 | -62.49 | -13 | -49.49 | -72.69 | 3.271 | 13.47 | V |

| EN-DC_48A_n66A / LTE 10MHz + NR 40MHz / QPSK (ANT6+2) for other Path | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 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) |
| Middle | 3450 | -64.86 | -13 | -51.86 | -75.60 | 2.604 | 13.34 | H |
| | 5175 | -61.94 | -13 | -48.94 | -72.45 | 3.011 | 13.52 | H |
| | 6915 | -62.27 | -13 | -49.27 | -72.47 | 3.271 | 13.47 | H |
| | 3450 | -63.20 | -13 | -50.20 | -73.94 | 2.604 | 13.34 | V |
| | 5175 | -52.99 | -13 | -39.99 | -63.50 | 3.011 | 13.52 | V |
| | 6915 | -62.73 | -13 | -49.73 | -72.93 | 3.271 | 13.47 | V |

| SA n66UL MIMO / NR 40MHz(ANT2+3) / QPSK | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 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) |
| Middle | 3450 | -48.33 | -13 | -35.33 | -59.07 | 2.604 | 13.34 | H |
| | 5175 | -53.41 | -13 | -40.41 | -63.92 | 3.011 | 13.52 | H |
| | 6915 | -53.99 | -13 | -40.99 | -64.19 | 3.271 | 13.47 | H |
| | 3450 | -56.87 | -13 | -43.87 | -67.61 | 2.604 | 13.34 | V |
| | 5175 | -52.81 | -13 | -39.81 | -63.32 | 3.011 | 13.52 | V |
| | 6915 | -54.08 | -13 | -41.08 | -64.28 | 3.271 | 13.47 | V |

| n70 SA / NR 40MHz / QPSK(ANT2) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 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) |
| Middle | 3390 | -66.79 | -13 | -53.79 | -77.53 | 2.604 | 13.34 | H |
| | 5085 | -58.34 | -13 | -45.34 | -68.85 | 3.011 | 13.52 | H |
| | 6780 | -63.81 | -13 | -50.81 | -74.01 | 3.271 | 13.47 | H |
| | 3390 | -66.15 | -13 | -53.15 | -76.89 | 2.604 | 13.34 | V |
| | 5085 | -52.26 | -13 | -39.26 | -62.77 | 3.011 | 13.52 | V |
| | 6780 | -63.99 | -13 | -50.99 | -74.19 | 3.271 | 13.47 | V |

| n71 SA / NR 20MHz / QPSK(ANT0) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 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 | 1344 | -68.42 | -13 | -55.42 | -70.17 | 1.02 | 4.92 | H |
| | 2016 | -62.71 | -13 | -49.71 | -64.68 | 1.27 | 5.39 | H |
| | 2688 | -60.77 | -13 | -47.77 | -63.70 | 1.49 | 6.57 | H |
| | 1344 | -67.78 | -13 | -54.78 | -69.53 | 1.02 | 4.92 | V |
| | 2016 | -62.13 | -13 | -49.13 | -64.10 | 1.27 | 5.39 | V |
| | 2688 | -60.19 | -13 | -47.19 | -63.12 | 1.49 | 6.57 | V |

| EN-DC_48A_n71A / LTE 10MHz + NR 20MHz / QPSK (ANT6+0) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 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 | 1344 | -67.79 | -13 | -54.79 | -69.54 | 1.02 | 4.92 | H |
| | 2014 | -62.23 | -13 | -49.23 | -64.20 | 1.27 | 5.39 | H |
| | 2686 | -59.01 | -13 | -46.01 | -61.94 | 1.49 | 6.57 | H |
| | 1344 | -67.30 | -13 | -54.30 | -69.05 | 1.02 | 4.92 | V |
| | 2014 | -61.45 | -13 | -48.45 | -63.42 | 1.27 | 5.39 | V |
| | 2686 | -59.04 | -13 | -46.04 | -61.97 | 1.49 | 6.57 | V |

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