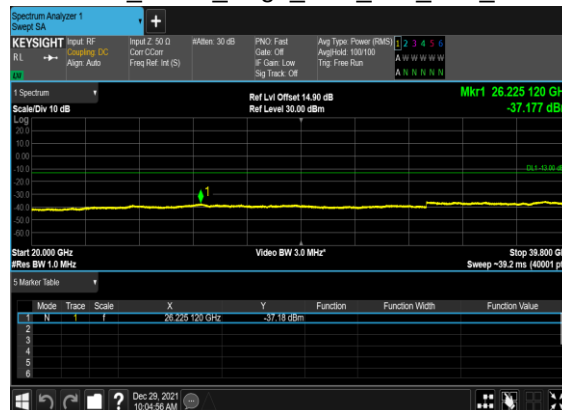




B5\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



B5\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



B5\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

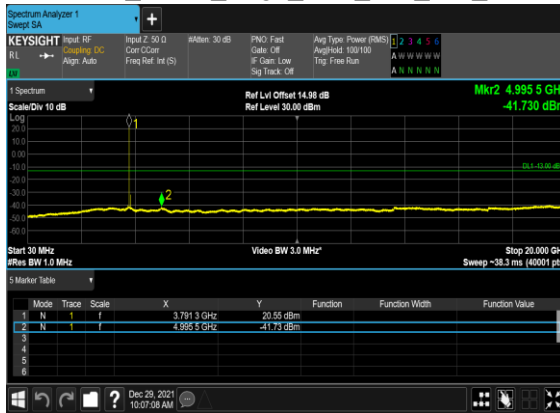


B5\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

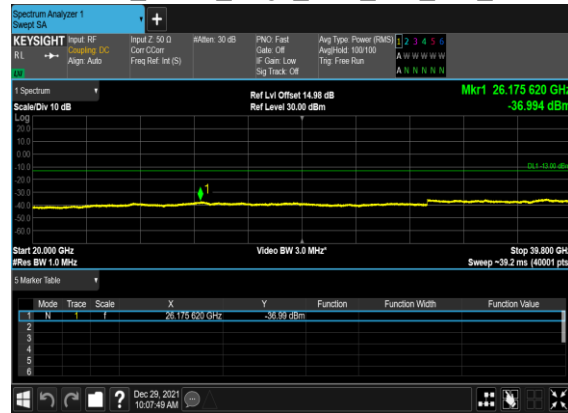




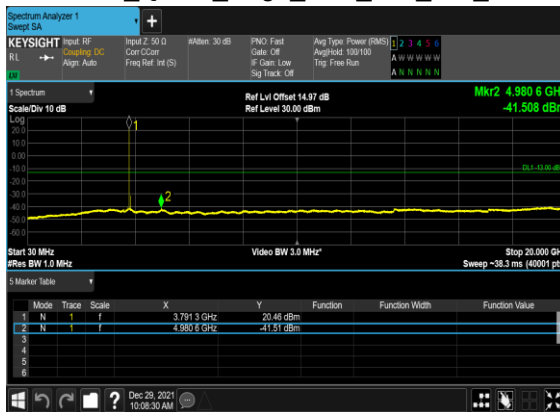
B5\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



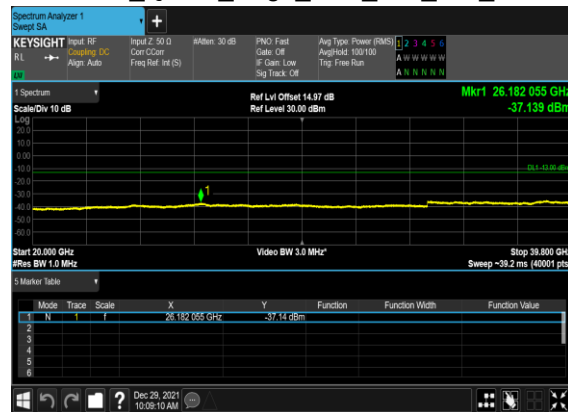
B5\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



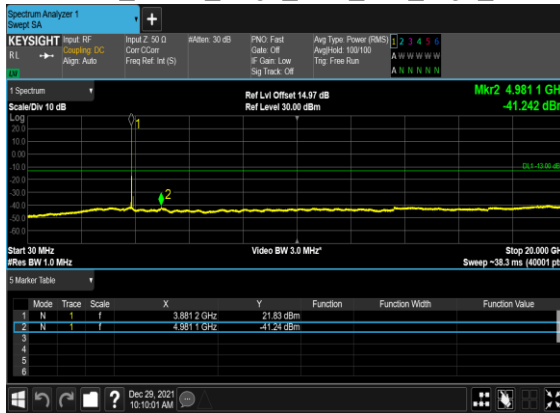
B5\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



B5\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



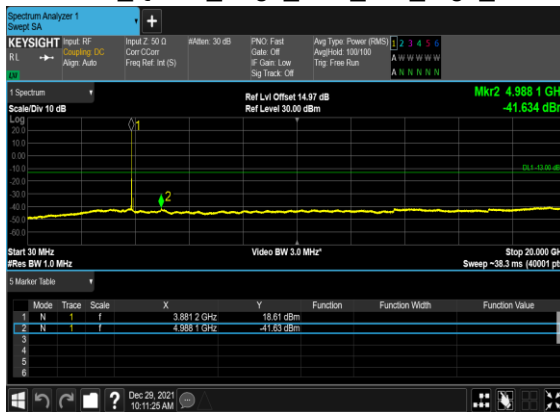
B5\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



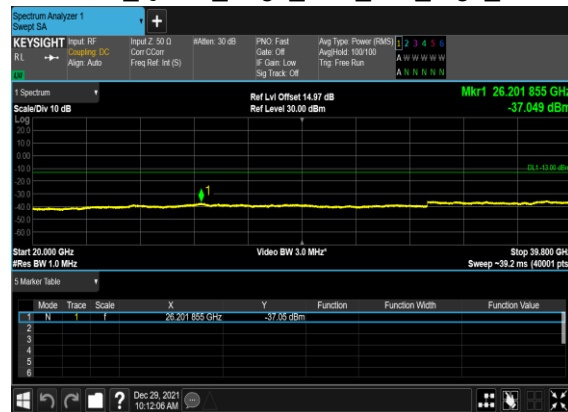
B5\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



B5\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



B5\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

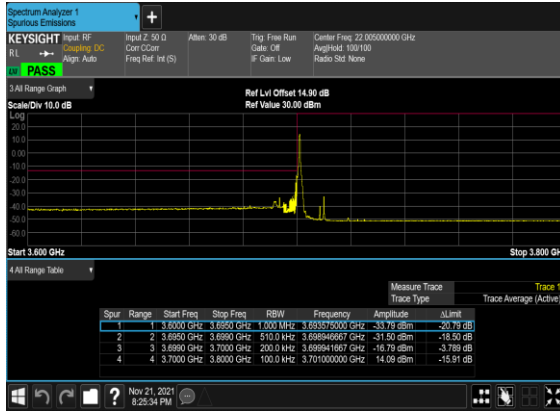


## Conducted Band Edge

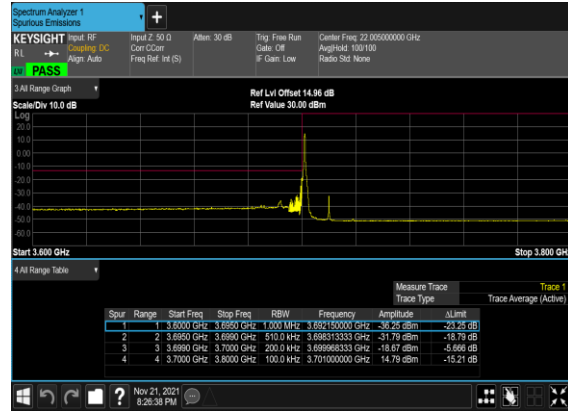
| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation      | RB    | Result    | Verdict |
|---------|-----------|-----------------|--------|------------|-----------------|-------|-----------|---------|
| 77      | 30        | 20              | 647334 | 3710.01    | DFT-s-OFDM BPSK | 1@0   | see graph | PASS    |
| 77      | 30        | 20              | 647334 | 3710.01    | DFT-s-OFDM QPSK | 1@0   | see graph | PASS    |
| 77      | 30        | 20              | 647334 | 3710.01    | DFT-s-OFDM BPSK | 50@0  | see graph | PASS    |
| 77      | 30        | 20              | 647334 | 3710.01    | DFT-s-OFDM QPSK | 50@0  | see graph | PASS    |
| 77      | 30        | 20              | 664666 | 3969.99    | DFT-s-OFDM BPSK | 1@50  | see graph | PASS    |
| 77      | 30        | 20              | 664666 | 3969.99    | DFT-s-OFDM QPSK | 1@50  | see graph | PASS    |
| 77      | 30        | 20              | 664666 | 3969.99    | DFT-s-OFDM BPSK | 50@0  | see graph | PASS    |
| 77      | 30        | 20              | 664666 | 3969.99    | DFT-s-OFDM QPSK | 50@0  | see graph | PASS    |
| 77      | 30        | 60              | 648668 | 3730.02    | DFT-s-OFDM BPSK | 1@0   | see graph | PASS    |
| 77      | 30        | 60              | 648668 | 3730.02    | DFT-s-OFDM QPSK | 1@0   | see graph | PASS    |
| 77      | 30        | 60              | 648668 | 3730.02    | DFT-s-OFDM BPSK | 162@0 | see graph | PASS    |
| 77      | 30        | 60              | 648668 | 3730.02    | DFT-s-OFDM QPSK | 162@0 | see graph | PASS    |
| 77      | 30        | 60              | 663332 | 3949.98    | DFT-s-OFDM BPSK | 1@161 | see graph | PASS    |
| 77      | 30        | 60              | 663332 | 3949.98    | DFT-s-OFDM QPSK | 1@161 | see graph | PASS    |
| 77      | 30        | 60              | 663332 | 3949.98    | DFT-s-OFDM BPSK | 162@0 | see graph | PASS    |
| 77      | 30        | 60              | 663332 | 3949.98    | DFT-s-OFDM QPSK | 162@0 | see graph | PASS    |
| 77      | 30        | 100             | 650000 | 3750.0     | DFT-s-OFDM BPSK | 1@0   | see graph | PASS    |
| 77      | 30        | 100             | 650000 | 3750.0     | DFT-s-OFDM QPSK | 1@0   | see graph | PASS    |
| 77      | 30        | 100             | 650000 | 3750.0     | DFT-s-OFDM BPSK | 270@0 | see graph | PASS    |
| 77      | 30        | 100             | 650000 | 3750.0     | DFT-s-OFDM QPSK | 270@0 | see graph | PASS    |
| 77      | 30        | 100             | 662000 | 3930.0     | DFT-s-OFDM BPSK | 1@272 | see graph | PASS    |
| 77      | 30        | 100             | 662000 | 3930.0     | DFT-s-OFDM QPSK | 1@272 | see graph | PASS    |
| 77      | 30        | 100             | 662000 | 3930.0     | DFT-s-OFDM BPSK | 270@0 | see graph | PASS    |
| 77      | 30        | 100             | 662000 | 3930.0     | DFT-s-OFDM QPSK | 270@0 | see graph | PASS    |



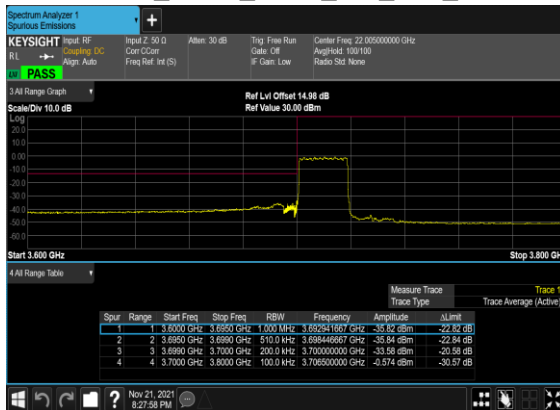
B5\_N77(20M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



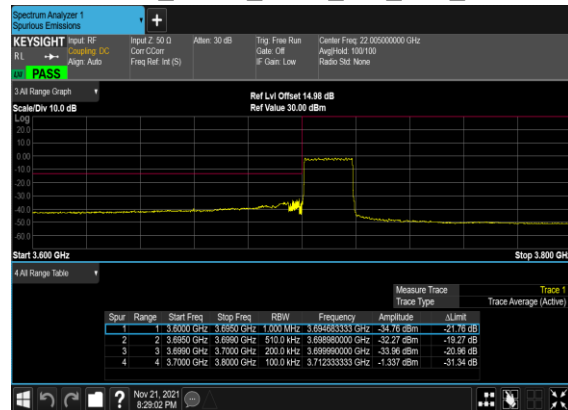
B5\_N77(20M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



B5\_N77(20M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_Low\_CH



B5\_N77(20M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH





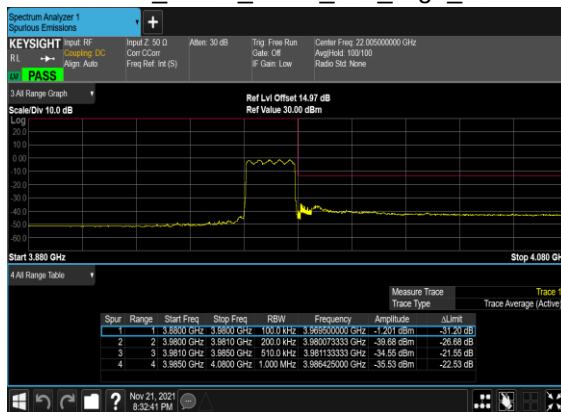
B5\_N77(20M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



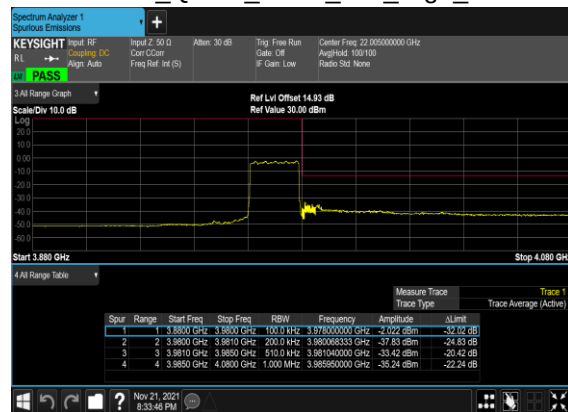
B5\_N77(20M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



B5\_N77(20M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_High\_CH

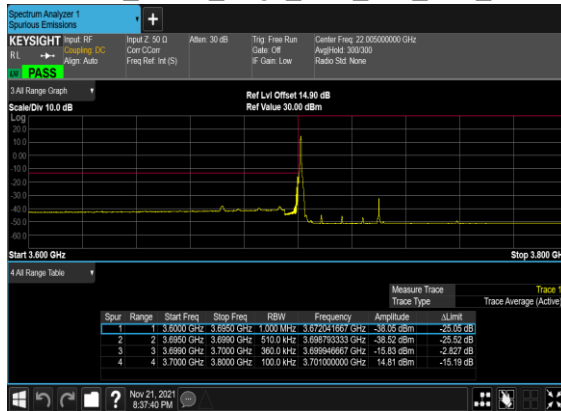


B5\_N77(20M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_High\_CH

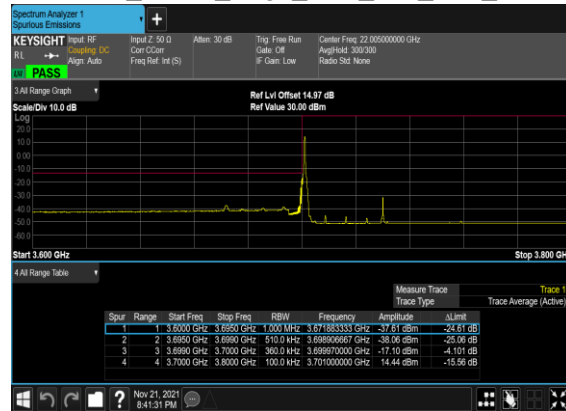




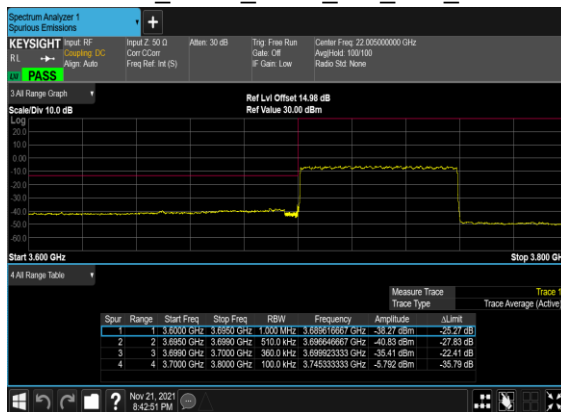
B5\_N77(60M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



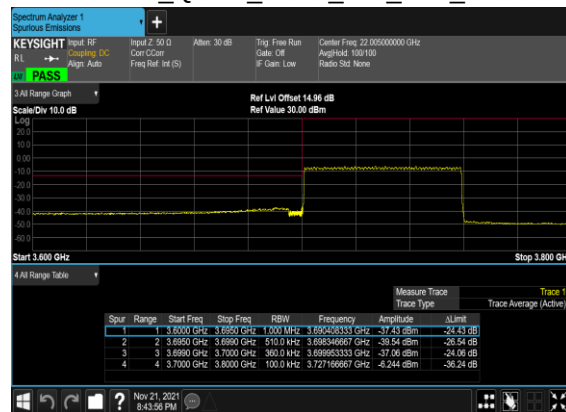
B5\_N77(60M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



B5\_N77(60M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_Low\_CH

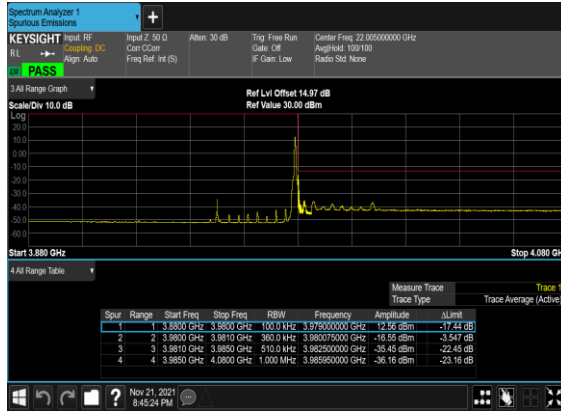


B5\_N77(60M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH





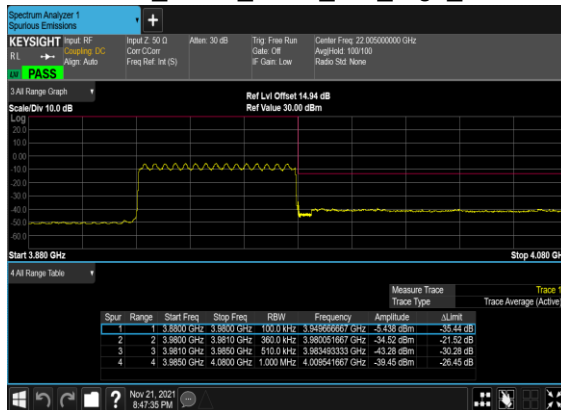
B5\_N77(60M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



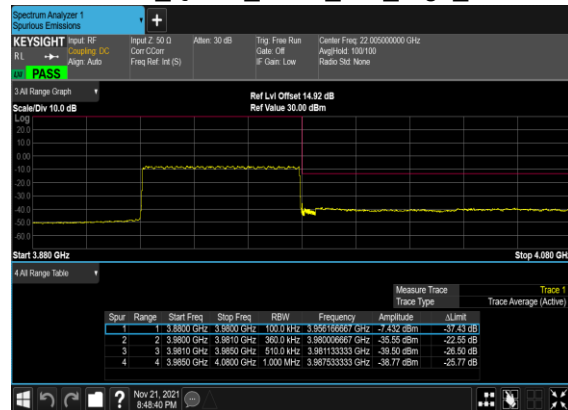
B5\_N77(60M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



B5\_N77(60M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_High\_CH

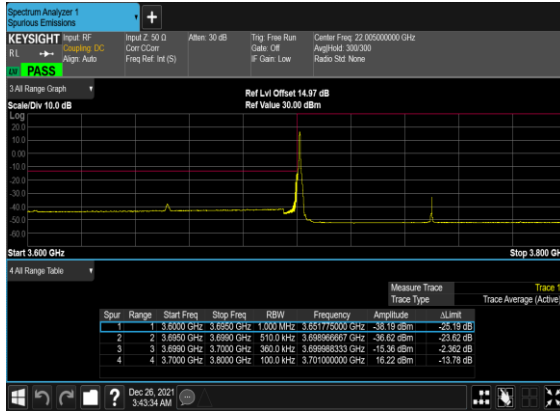


B5\_N77(60M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_High\_CH

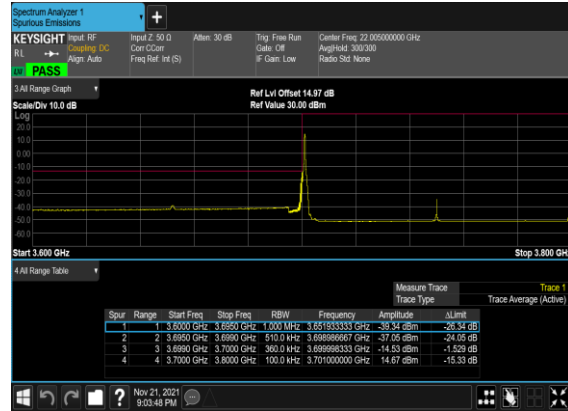




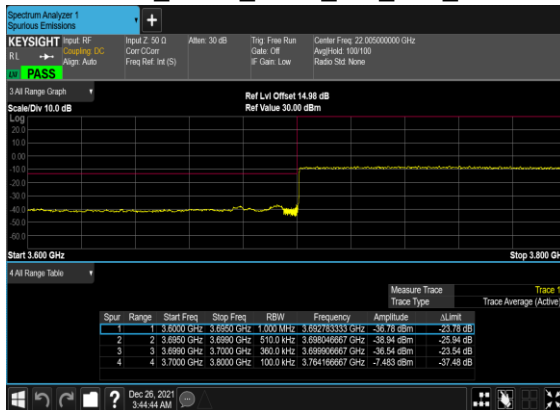
B5\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



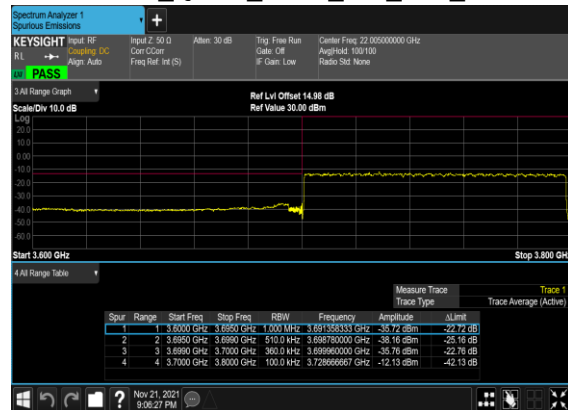
B5\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



B5\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_Low\_CH



B5\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH





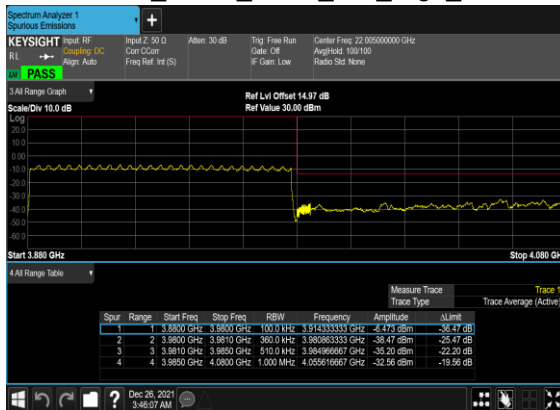
B5\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



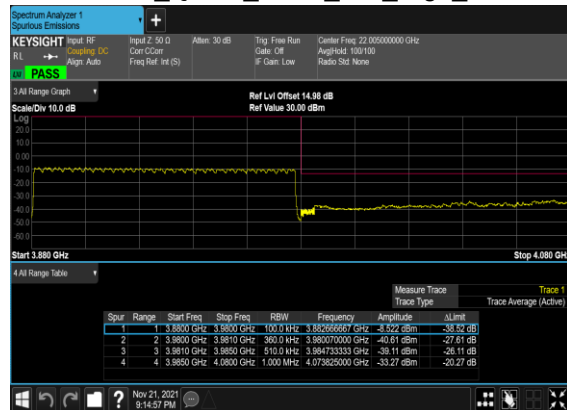
B5\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



B5\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_High\_CH



B5\_N77(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°C |
|                 |               | Relative Humidity : | 48~52%  |

| EN-DC_5A_n7A / LTE 10MHz + NR 20MHz / QPSK |                   |                  |               |                   |                   |                    |                      |                       |                    |
|--------------------------------------------|-------------------|------------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                    | Frequency ( MHz ) | ERP/EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n7 Middle                               | 5020.00           | -62.08           | -25           | -37.08            | -79.52            | -67.64             | 7.12                 | 12.68                 | H                  |
|                                            | 7530.00           | -57.93           | -25           | -32.93            | -80.20            | -61.26             | 8.26                 | 11.59                 | H                  |
|                                            | 10040.00          | -52.12           | -25           | -27.12            | -79.04            | -53.65             | 10.45                | 11.98                 | H                  |
|                                            | 5020.00           | -62.25           | -25           | -37.25            | -79.61            | -67.81             | 7.12                 | 12.68                 | V                  |
|                                            | 7530.00           | -58.13           | -25           | -33.13            | -80.27            | -61.46             | 8.26                 | 11.59                 | V                  |
|                                            | 10040.00          | -53.25           | -25           | -28.25            | -79.6             | -54.78             | 10.45                | 11.98                 | V                  |
| LTE Band5 Middle                           | 1664.08           | -66.46           | -25           | -71.78            | -72.57            | -69.71             | 4.00                 | 9.40                  | H                  |
|                                            | 2496.27           | -63.91           | -25           | -72.58            | -74.10            | -67.48             | 4.88                 | 10.60                 | H                  |
|                                            | 3328.36           | -63.06           | -25           | -73.82            | -75.03            | -67.99             | 5.52                 | 12.60                 | H                  |
|                                            | 1664.08           | -67.41           | -25           | -42.41            | -73.29            | -70.66             | 4.00                 | 9.40                  | V                  |
|                                            | 2496.27           | -63.59           | -25           | -38.59            | -74.12            | -67.16             | 4.88                 | 10.60                 | V                  |
|                                            | 3328.36           | -62.67           | -25           | -37.67            | -75.05            | -67.60             | 5.52                 | 12.60                 | V                  |

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

| EN-DC_2A_n12A / LTE 20MHz + NR 15MHz / QPSK |                   |                  |               |                   |                   |                    |                      |                       |                    |
|---------------------------------------------|-------------------|------------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                     | Frequency ( MHz ) | ERP/EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n12 Middle                               | 1417              | -63.50           | -13           | -50.50            | -71.33            | -66.67             | 4.10                 | 9.42                  | H                  |
|                                             | 2125.5            | -64.63           | -13           | -51.63            | -74.60            | -68.21             | 4.90                 | 10.63                 | H                  |
|                                             | 2834              | -61.52           | -13           | -48.52            | -73.42            | -66.44             | 5.55                 | 12.62                 | H                  |
|                                             | 1417              | -63.64           | -13           | -50.64            | -71.56            | -66.81             | 4.10                 | 9.42                  | V                  |
|                                             | 2125.5            | -64.29           | -13           | -51.29            | -74.62            | -67.87             | 4.90                 | 10.63                 | V                  |
|                                             | 2834              | -61.48           | -13           | -48.48            | -73.64            | -66.40             | 5.55                 | 12.62                 | V                  |
| LTE Band2 Middle                            | 3742.18           | -63.06           | -13           | -50.06            | -77.49            | -69.81             | 5.85                 | 12.60                 | H                  |
|                                             | 5613.27           | -62.46           | -13           | -49.46            | -79.30            | -68.26             | 7.30                 | 13.10                 | H                  |
|                                             | 7484.36           | -57.71           | -13           | -44.71            | -80.09            | -60.86             | 8.35                 | 11.50                 | H                  |
|                                             | 3742.18           | -62.76           | -13           | -49.76            | -77.4             | -69.51             | 5.85                 | 12.60                 | V                  |
|                                             | 5613.27           | -62.58           | -13           | -49.58            | -79.33            | -68.38             | 7.30                 | 13.10                 | V                  |
|                                             | 7484.36           | -58.14           | -13           | -45.14            | -80.45            | -61.29             | 8.35                 | 11.50                 | V                  |

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



| EN-DC_12A_n25A / LTE 10MHz + NR 20MHz / QPSK |                   |                  |               |                   |                   |                    |                      |                       |                    |
|----------------------------------------------|-------------------|------------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                      | Frequency ( MHz ) | ERP/EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n25 Middle                                | 3765              | -63.12           | -13           | -50.12            | -77.60            | -69.87             | 5.85                 | 12.60                 | H                  |
|                                              | 5647.5            | -62.87           | -13           | -49.87            | -79.78            | -68.67             | 7.30                 | 13.10                 | H                  |
|                                              | 7530              | -57.96           | -13           | -44.96            | -80.23            | -61.11             | 8.35                 | 11.50                 | H                  |
|                                              | 3765              | -63.01           | -13           | -50.01            | -77.66            | -69.76             | 5.85                 | 12.60                 | V                  |
|                                              | 5647.5            | -63.25           | -13           | -50.25            | -80.06            | -69.05             | 7.30                 | 13.10                 | V                  |
|                                              | 7530              | -58.18           | -13           | -45.18            | -80.32            | -61.33             | 8.35                 | 11.50                 | V                  |
| LTE Band12 Middle                            | 1406              | -63.33           | -13           | -50.33            | -71.29            | -66.58             | 4.00                 | 9.40                  | H                  |
|                                              | 2109              | -64.40           | -13           | -51.40            | -74.06            | -67.97             | 4.88                 | 10.60                 | H                  |
|                                              | 2812              | -62.08           | -13           | -49.08            | -73.94            | -67.01             | 5.52                 | 12.60                 | H                  |
|                                              | 1406              | -62.70           | -13           | -49.70            | -70.74            | -65.95             | 4.00                 | 9.40                  | V                  |
|                                              | 2109              | -64.09           | -13           | -51.09            | -74.12            | -67.66             | 4.88                 | 10.60                 | V                  |
|                                              | 2812              | -61.44           | -13           | -48.44            | -73.54            | -66.37             | 5.52                 | 12.60                 | V                  |

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

| EN-DC_4A_n41A / LTE 20MHz + NR 100MHz / QPSK |                   |                  |               |                   |                   |                    |                      |                       |                    |
|----------------------------------------------|-------------------|------------------|---------------|-------------------|-------------------|--------------------|----------------------|-----------------------|--------------------|
| Channel                                      | Frequency ( MHz ) | ERP/EIRP ( dBm ) | Limit ( dBm ) | Over Limit ( dB ) | SPA Reading (dBm) | S.G. Power ( dBm ) | TX Cable loss ( dB ) | TX Antenna Gain (dBi) | Polarization (H/V) |
| NR n41 Middle                                | 5003.10           | -61.56           | -25           | -36.56            | -79.03            | -67.12             | 7.12                 | 12.68                 | H                  |
|                                              | 7504.65           | -58.08           | -25           | -33.08            | -80.40            | -61.41             | 8.26                 | 11.59                 | H                  |
|                                              | 10006.20          | -52.60           | -25           | -27.60            | -79.53            | -54.13             | 10.45                | 11.98                 | H                  |
|                                              | 5003.10           | -61.50           | -25           | -36.50            | -78.89            | -67.06             | 7.12                 | 12.68                 | V                  |
|                                              | 7504.65           | -58.10           | -25           | -33.10            | -80.33            | -61.43             | 8.26                 | 11.59                 | V                  |
|                                              | 10006.20          | -53.21           | -25           | -28.21            | -79.53            | -54.74             | 10.45                | 11.98                 | V                  |
| LTE Band4 Middle                             | 3447              | -62.09           | -13           | -49.09            | -74.42            | -68.94             | 5.65                 | 12.50                 | H                  |
|                                              | 5170.5            | -62.61           | -13           | -49.61            | -79.88            | -68.28             | 7.13                 | 12.80                 | H                  |
|                                              | 6894              | -60.24           | -13           | -47.24            | -80.60            | -63.64             | 8.40                 | 11.80                 | H                  |
|                                              | 3447              | -61.88           | -13           | -48.88            | -74.77            | -68.73             | 5.65                 | 12.50                 | V                  |
|                                              | 5170.5            | -62.95           | -13           | -49.95            | -80.17            | -68.62             | 7.13                 | 12.80                 | V                  |
|                                              | 6894              | -60.22           | -13           | -47.22            | -80.49            | -63.62             | 8.40                 | 11.80                 | V                  |

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



| EN-DC_13A_n66A / LTE 10MHz + NR 40MHz / QPSK |                      |                     |                  |                         |                         |                          |                            |                             |                       |
|----------------------------------------------|----------------------|---------------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                      | Frequency<br>( MHz ) | ERP/EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| NR n66<br>Middle                             | 3421.84              | -64.30              | -13              | -51.30                  | -76.34                  | -71.18                   | 5.60                       | 12.48                       | H                     |
|                                              | 5132.76              | -62.99              | -13              | -49.99                  | -80.32                  | -68.67                   | 7.10                       | 12.78                       | H                     |
|                                              | 6843.68              | -60.35              | -13              | -47.35                  | -80.47                  | -63.74                   | 8.38                       | 11.77                       | H                     |
|                                              | 3421.84              | -63.40              | -13              | -50.40                  | -76.01                  | -70.28                   | 5.60                       | 12.48                       | V                     |
|                                              | 5132.76              | -62.88              | -13              | -49.88                  | -80.15                  | -68.56                   | 7.10                       | 12.78                       | V                     |
|                                              | 6843.68              | -60.63              | -13              | -47.63                  | -80.51                  | -64.02                   | 8.38                       | 11.77                       | V                     |
| LTE<br>Band13<br>Middle                      | 1555                 | -65.58              | -13              | -52.58                  | -72.26                  | -68.83                   | 4.00                       | 9.40                        | H                     |
|                                              | 2332.5               | -62.68              | -13              | -49.68                  | -73.38                  | -66.25                   | 4.88                       | 10.60                       | H                     |
|                                              | 3110                 | -61.42              | -13              | -48.42                  | -74.06                  | -66.35                   | 5.52                       | 12.60                       | H                     |
|                                              | 1555                 | -65.39              | -13              | -52.39                  | -72.28                  | -68.64                   | 4.00                       | 9.40                        | V                     |
|                                              | 2332.5               | -62.46              | -13              | -49.46                  | -73.55                  | -66.03                   | 4.88                       | 10.60                       | V                     |
|                                              | 3110                 | -61.32              | -13              | -48.32                  | -74.47                  | -66.25                   | 5.52                       | 12.60                       | V                     |

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

| EN-DC_5A_n77A / LTE 10MHz + NR 100MHz / QPSK |                      |                     |                  |                         |                         |                          |                            |                             |                       |
|----------------------------------------------|----------------------|---------------------|------------------|-------------------------|-------------------------|--------------------------|----------------------------|-----------------------------|-----------------------|
| Channel                                      | Frequency<br>( MHz ) | ERP/EIRP<br>( dBm ) | Limit<br>( dBm ) | Over<br>Limit<br>( dB ) | SPA<br>Reading<br>(dBm) | S.G.<br>Power<br>( dBm ) | TX Cable<br>loss<br>( dB ) | TX Antenna<br>Gain<br>(dBi) | Polarization<br>(H/V) |
| NR n77<br>Middle                             | 7680.00              | -57.16              | -13              | -44.16                  | -79.51                  | -60.46                   | 8.30                       | 11.60                       | H                     |
|                                              | 11520.00             | -49.26              | -13              | -36.26                  | -79.35                  | -50.78                   | 10.48                      | 12.00                       | H                     |
|                                              | 15360.00             | -50.69              | -13              | -37.69                  | -80.46                  | -52.39                   | 11.80                      | 13.50                       | H                     |
|                                              | 7680.00              | -57.95              | -13              | -44.95                  | -80.18                  | -61.25                   | 8.30                       | 11.60                       | V                     |
|                                              | 11520.00             | -49.22              | -13              | -36.22                  | -79.19                  | -50.74                   | 10.48                      | 12.00                       | V                     |
|                                              | 15360.00             | -50.96              | -13              | -37.96                  | -80.90                  | -52.66                   | 11.80                      | 13.50                       | V                     |
| LTE Band5<br>Middle                          | 1664.18              | -66.46              | -13              | -53.46                  | -72.57                  | -69.71                   | 4.00                       | 9.40                        | H                     |
|                                              | 2496.27              | -63.91              | -13              | -50.91                  | -74.10                  | -67.48                   | 4.88                       | 10.60                       | H                     |
|                                              | 3328.36              | -63.06              | -13              | -50.06                  | -75.03                  | -67.99                   | 5.52                       | 12.60                       | H                     |
|                                              | 1664.18              | -67.06              | -13              | -54.06                  | -72.94                  | -70.31                   | 4.00                       | 9.40                        | V                     |
|                                              | 2496.27              | -63.59              | -13              | -50.59                  | -74.12                  | -67.16                   | 4.88                       | 10.60                       | V                     |
|                                              | 3328.36              | -62.67              | -13              | -49.67                  | -75.05                  | -67.60                   | 5.52                       | 12.60                       | V                     |

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