



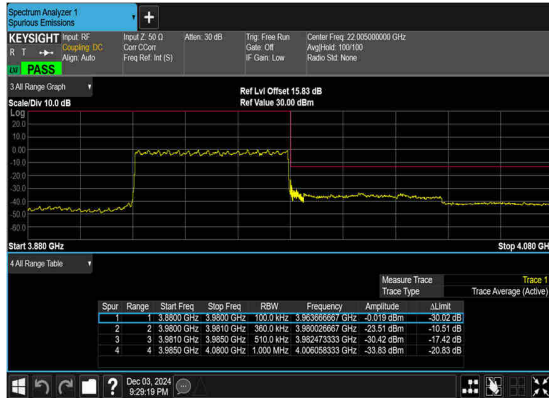
N77(60M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



N77(60M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



N77(60M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_High\_CH

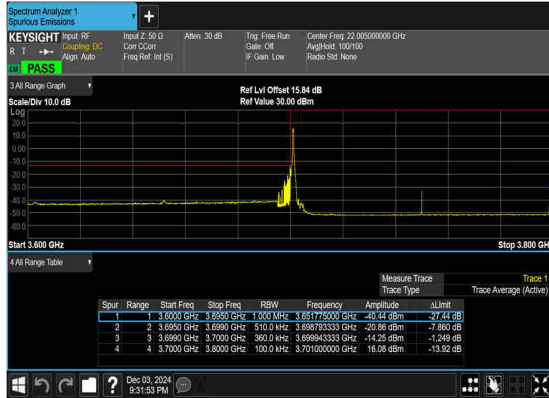


N77(60M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_High\_CH

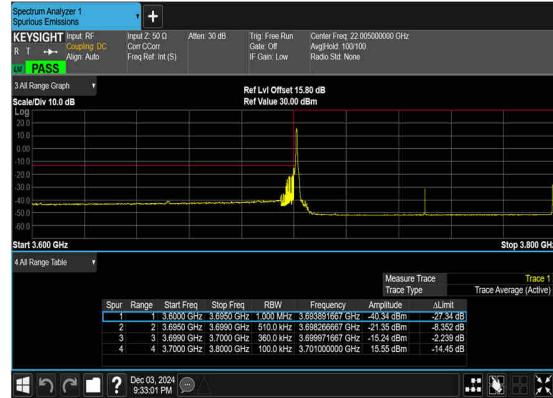




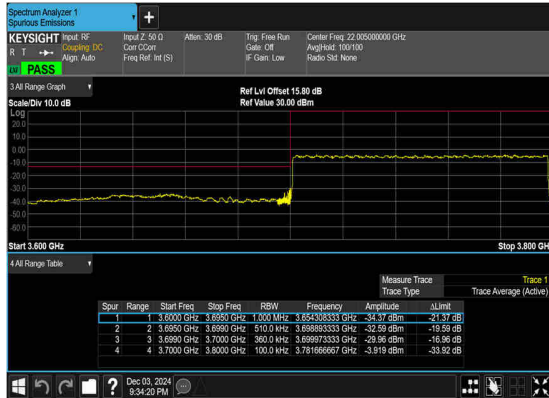
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



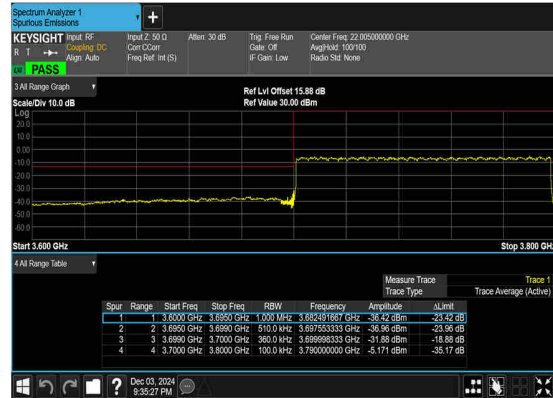
N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N77(100M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_Low\_CH



N77(100M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_Low\_CH





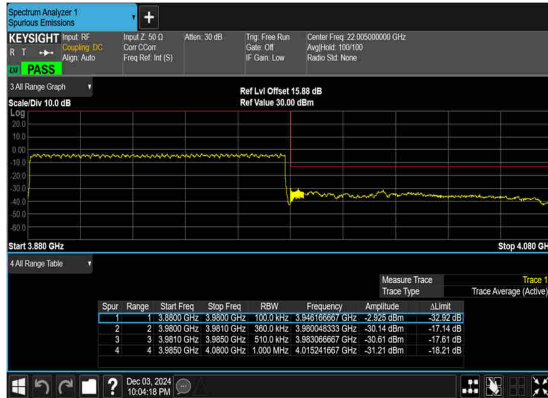
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



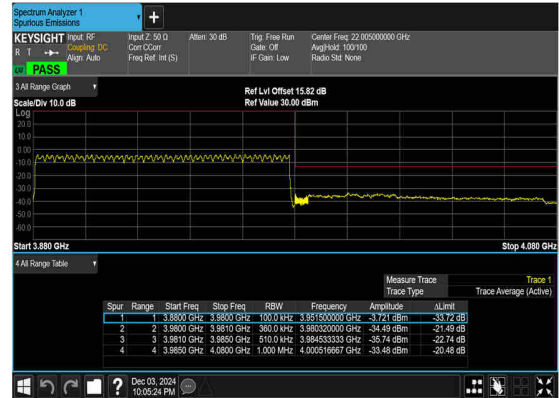
N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



N77(100M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



N77(100M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH





Software Version: 23.06.1602

**FR1 N78(Ant.2)****Transmitter Conducted Output Power and EIRP, (G<sub>T</sub> - L<sub>C</sub>)=-4.0dB**

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation        | RB    | Conducted Power(dBm) | EIRP(dBm) | EIRP(W) |
|---------|-----|-----------|--------|-----------|-------------------|-------|----------------------|-----------|---------|
| 78      | 30  | 20        | 647334 | 3710.01   | DFT-s-OFDM QPSK   | 25@12 | 25.74                | 21.74     | 0.1493  |
| 78      | 30  | 20        | 647334 | 3710.01   | DFT-s-OFDM QPSK   | 1@1   | 25.88                | 21.88     | 0.1542  |
| 78      | 30  | 20        | 647334 | 3710.01   | DFT-s-OFDM QPSK   | 1@49  | 26.04                | 22.04     | 0.1600  |
| 78      | 30  | 20        | 647334 | 3710.01   | DFT-s-OFDM 16 QAM | 25@12 | 24.71                | 20.71     | 0.1178  |
| 78      | 30  | 20        | 647334 | 3710.01   | DFT-s-OFDM 16 QAM | 1@1   | 24.99                | 20.99     | 0.1256  |
| 78      | 30  | 20        | 647334 | 3710.01   | DFT-s-OFDM 16 QAM | 1@49  | 25.12                | 21.12     | 0.1294  |
| 78      | 30  | 20        | 650000 | 3750      | DFT-s-OFDM QPSK   | 25@12 | 26.03                | 22.03     | 0.1596  |
| 78      | 30  | 20        | 650000 | 3750      | DFT-s-OFDM QPSK   | 1@1   | 26.19                | 22.19     | 0.1656  |
| 78      | 30  | 20        | 650000 | 3750      | DFT-s-OFDM QPSK   | 1@49  | 26.32                | 22.32     | 0.1706  |
| 78      | 30  | 20        | 650000 | 3750      | DFT-s-OFDM 16 QAM | 25@12 | 24.96                | 20.96     | 0.1247  |
| 78      | 30  | 20        | 650000 | 3750      | DFT-s-OFDM 16 QAM | 1@1   | 25.25                | 21.25     | 0.1334  |
| 78      | 30  | 20        | 650000 | 3750      | DFT-s-OFDM 16 QAM | 1@49  | 25.32                | 21.32     | 0.1355  |
| 78      | 30  | 20        | 652666 | 3789.99   | DFT-s-OFDM QPSK   | 25@12 | 25.82                | 21.82     | 0.1521  |
| 78      | 30  | 20        | 652666 | 3789.99   | DFT-s-OFDM QPSK   | 1@1   | 26.12                | 22.12     | 0.1629  |
| 78      | 30  | 20        | 652666 | 3789.99   | DFT-s-OFDM QPSK   | 1@49  | 25.98                | 21.98     | 0.1578  |
| 78      | 30  | 20        | 652666 | 3789.99   | DFT-s-OFDM 16 QAM | 25@12 | 24.74                | 20.74     | 0.1186  |
| 78      | 30  | 20        | 652666 | 3789.99   | DFT-s-OFDM 16 QAM | 1@1   | 25.16                | 21.16     | 0.1306  |
| 78      | 30  | 20        | 652666 | 3789.99   | DFT-s-OFDM 16 QAM | 1@49  | 24.98                | 20.98     | 0.1253  |
| 78      | 30  | 30        | 647668 | 3715.02   | DFT-s-OFDM QPSK   | 36@18 | 25.85                | 21.85     | 0.1531  |
| 78      | 30  | 30        | 647668 | 3715.02   | DFT-s-OFDM QPSK   | 1@1   | 25.76                | 21.76     | 0.1500  |
| 78      | 30  | 30        | 647668 | 3715.02   | DFT-s-OFDM QPSK   | 1@76  | 25.87                | 21.87     | 0.1538  |
| 78      | 30  | 30        | 647668 | 3715.02   | DFT-s-OFDM 16 QAM | 36@18 | 24.8                 | 20.8      | 0.1202  |
| 78      | 30  | 30        | 647668 | 3715.02   | DFT-s-OFDM 16 QAM | 1@1   | 24.83                | 20.83     | 0.1211  |
| 78      | 30  | 30        | 647668 | 3715.02   | DFT-s-OFDM 16 QAM | 1@76  | 24.87                | 20.87     | 0.1222  |
| 78      | 30  | 30        | 650000 | 3750      | DFT-s-OFDM QPSK   | 36@18 | 26.03                | 22.03     | 0.1596  |
| 78      | 30  | 30        | 650000 | 3750      | DFT-s-OFDM QPSK   | 1@1   | 25.99                | 21.99     | 0.1581  |
| 78      | 30  | 30        | 650000 | 3750      | DFT-s-OFDM QPSK   | 1@76  | 26.07                | 22.07     | 0.1611  |
| 78      | 30  | 30        | 650000 | 3750      | DFT-s-OFDM 16 QAM | 36@18 | 24.96                | 20.96     | 0.1247  |
| 78      | 30  | 30        | 650000 | 3750      | DFT-s-OFDM 16 QAM | 1@1   | 25.02                | 21.02     | 0.1265  |
| 78      | 30  | 30        | 650000 | 3750      | DFT-s-OFDM 16 QAM | 1@76  | 25.12                | 21.12     | 0.1294  |
| 78      | 30  | 30        | 652332 | 3784.98   | DFT-s-OFDM QPSK   | 36@18 | 25.8                 | 21.8      | 0.1514  |
| 78      | 30  | 30        | 652332 | 3784.98   | DFT-s-OFDM QPSK   | 1@1   | 26.01                | 22.01     | 0.1589  |
| 78      | 30  | 30        | 652332 | 3784.98   | DFT-s-OFDM QPSK   | 1@76  | 25.8                 | 21.8      | 0.1514  |
| 78      | 30  | 30        | 652332 | 3784.98   | DFT-s-OFDM 16 QAM | 36@18 | 24.75                | 20.75     | 0.1189  |



| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation        | RB    | Conducted Power(dBm) | EIRP(dBm) | EIRP(W) |
|---------|-----|-----------|--------|-----------|-------------------|-------|----------------------|-----------|---------|
| 78      | 30  | 30        | 652332 | 3784.98   | DFT-s-OFDM 16 QAM | 1@1   | 25.03                | 21.03     | 0.1268  |
| 78      | 30  | 30        | 652332 | 3784.98   | DFT-s-OFDM 16 QAM | 1@76  | 24.84                | 20.84     | 0.1213  |
| 78      | 30  | 40        | 648000 | 3720      | DFT-s-OFDM QPSK   | 50@25 | 25.85                | 21.85     | 0.1531  |
| 78      | 30  | 40        | 648000 | 3720      | DFT-s-OFDM QPSK   | 1@1   | 25.96                | 21.96     | 0.1570  |
| 78      | 30  | 40        | 648000 | 3720      | DFT-s-OFDM QPSK   | 1@104 | 26                   | 22        | 0.1585  |
| 78      | 30  | 40        | 648000 | 3720      | DFT-s-OFDM 16 QAM | 50@25 | 24.8                 | 20.8      | 0.1202  |
| 78      | 30  | 40        | 648000 | 3720      | DFT-s-OFDM 16 QAM | 1@1   | 25.01                | 21.01     | 0.1262  |
| 78      | 30  | 40        | 648000 | 3720      | DFT-s-OFDM 16 QAM | 1@104 | 25.02                | 21.02     | 0.1265  |
| 78      | 30  | 40        | 650000 | 3750      | DFT-s-OFDM QPSK   | 50@25 | 26.02                | 22.02     | 0.1592  |
| 78      | 30  | 40        | 650000 | 3750      | DFT-s-OFDM QPSK   | 1@1   | 26.14                | 22.14     | 0.1637  |
| 78      | 30  | 40        | 650000 | 3750      | DFT-s-OFDM QPSK   | 1@104 | 26.21                | 22.21     | 0.1663  |
| 78      | 30  | 40        | 650000 | 3750      | DFT-s-OFDM 16 QAM | 50@25 | 24.96                | 20.96     | 0.1247  |
| 78      | 30  | 40        | 650000 | 3750      | DFT-s-OFDM 16 QAM | 1@1   | 25.23                | 21.23     | 0.1327  |
| 78      | 30  | 40        | 650000 | 3750      | DFT-s-OFDM 16 QAM | 1@104 | 25.25                | 21.25     | 0.1334  |
| 78      | 30  | 40        | 652000 | 3780      | DFT-s-OFDM QPSK   | 50@25 | 25.91                | 21.91     | 0.1552  |
| 78      | 30  | 40        | 652000 | 3780      | DFT-s-OFDM QPSK   | 1@1   | 26.34                | 22.34     | 0.1714  |
| 78      | 30  | 40        | 652000 | 3780      | DFT-s-OFDM QPSK   | 1@104 | 25.99                | 21.99     | 0.1581  |
| 78      | 30  | 40        | 652000 | 3780      | DFT-s-OFDM 16 QAM | 50@25 | 24.83                | 20.83     | 0.1211  |
| 78      | 30  | 40        | 652000 | 3780      | DFT-s-OFDM 16 QAM | 1@1   | 25.36                | 21.36     | 0.1368  |
| 78      | 30  | 40        | 652000 | 3780      | DFT-s-OFDM 16 QAM | 1@104 | 25.01                | 21.01     | 0.1262  |
| 78      | 30  | 50        | 648334 | 3725.01   | DFT-s-OFDM QPSK   | 64@32 | 25.93                | 21.93     | 0.1560  |
| 78      | 30  | 50        | 648334 | 3725.01   | DFT-s-OFDM QPSK   | 1@1   | 25.91                | 21.91     | 0.1552  |
| 78      | 30  | 50        | 648334 | 3725.01   | DFT-s-OFDM QPSK   | 1@131 | 26.11                | 22.11     | 0.1626  |
| 78      | 30  | 50        | 648334 | 3725.01   | DFT-s-OFDM 16 QAM | 64@32 | 24.87                | 20.87     | 0.1222  |
| 78      | 30  | 50        | 648334 | 3725.01   | DFT-s-OFDM 16 QAM | 1@1   | 24.97                | 20.97     | 0.1250  |
| 78      | 30  | 50        | 648334 | 3725.01   | DFT-s-OFDM 16 QAM | 1@131 | 25.14                | 21.14     | 0.1300  |
| 78      | 30  | 50        | 650000 | 3750      | DFT-s-OFDM QPSK   | 64@32 | 26.05                | 22.05     | 0.1603  |
| 78      | 30  | 50        | 650000 | 3750      | DFT-s-OFDM QPSK   | 1@1   | 26.18                | 22.18     | 0.1652  |
| 78      | 30  | 50        | 650000 | 3750      | DFT-s-OFDM QPSK   | 1@131 | 26.2                 | 22.2      | 0.1660  |
| 78      | 30  | 50        | 650000 | 3750      | DFT-s-OFDM 16 QAM | 64@32 | 24.98                | 20.98     | 0.1253  |
| 78      | 30  | 50        | 650000 | 3750      | DFT-s-OFDM 16 QAM | 1@1   | 25.31                | 21.31     | 0.1352  |
| 78      | 30  | 50        | 650000 | 3750      | DFT-s-OFDM 16 QAM | 1@131 | 25.18                | 21.18     | 0.1312  |
| 78      | 30  | 50        | 651666 | 3774.99   | DFT-s-OFDM QPSK   | 64@32 | 25.92                | 21.92     | 0.1556  |
| 78      | 30  | 50        | 651666 | 3774.99   | DFT-s-OFDM QPSK   | 1@1   | 26.16                | 22.16     | 0.1644  |
| 78      | 30  | 50        | 651666 | 3774.99   | DFT-s-OFDM QPSK   | 1@131 | 25.81                | 21.81     | 0.1517  |
| 78      | 30  | 50        | 651666 | 3774.99   | DFT-s-OFDM 16 QAM | 64@32 | 24.85                | 20.85     | 0.1216  |
| 78      | 30  | 50        | 651666 | 3774.99   | DFT-s-OFDM 16 QAM | 1@1   | 25.19                | 21.19     | 0.1315  |
| 78      | 30  | 50        | 651666 | 3774.99   | DFT-s-OFDM 16 QAM | 1@131 | 24.83                | 20.83     | 0.1211  |
| 78      | 30  | 60        | 648668 | 3730.02   | DFT-s-OFDM QPSK   | 81@40 | 25.96                | 21.96     | 0.1570  |
| 78      | 30  | 60        | 648668 | 3730.02   | DFT-s-OFDM QPSK   | 1@1   | 25.77                | 21.77     | 0.1503  |



| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation        | RB     | Conducted Power(dBm) | EIRP(dBm) | EIRP(W) |
|---------|-----|-----------|--------|-----------|-------------------|--------|----------------------|-----------|---------|
| 78      | 30  | 60        | 648668 | 3730.02   | DFT-s-OFDM QPSK   | 1@160  | 26.21                | 22.21     | 0.1663  |
| 78      | 30  | 60        | 648668 | 3730.02   | DFT-s-OFDM 16 QAM | 81@40  | 24.89                | 20.89     | 0.1227  |
| 78      | 30  | 60        | 648668 | 3730.02   | DFT-s-OFDM 16 QAM | 1@1    | 24.86                | 20.86     | 0.1219  |
| 78      | 30  | 60        | 648668 | 3730.02   | DFT-s-OFDM 16 QAM | 1@160  | 25.19                | 21.19     | 0.1315  |
| 78      | 30  | 60        | 650000 | 3750      | DFT-s-OFDM QPSK   | 81@40  | 26.09                | 22.09     | 0.1618  |
| 78      | 30  | 60        | 650000 | 3750      | DFT-s-OFDM QPSK   | 1@1    | 26.05                | 22.05     | 0.1603  |
| 78      | 30  | 60        | 650000 | 3750      | DFT-s-OFDM QPSK   | 1@160  | 26.16                | 22.16     | 0.1644  |
| 78      | 30  | 60        | 650000 | 3750      | DFT-s-OFDM 16 QAM | 81@40  | 24.99                | 20.99     | 0.1256  |
| 78      | 30  | 60        | 650000 | 3750      | DFT-s-OFDM 16 QAM | 1@1    | 25.14                | 21.14     | 0.1300  |
| 78      | 30  | 60        | 650000 | 3750      | DFT-s-OFDM 16 QAM | 1@160  | 25.19                | 21.19     | 0.1315  |
| 78      | 30  | 60        | 651332 | 3769.98   | DFT-s-OFDM QPSK   | 81@40  | 25.98                | 21.98     | 0.1578  |
| 78      | 30  | 60        | 651332 | 3769.98   | DFT-s-OFDM QPSK   | 1@1    | 26.09                | 22.09     | 0.1618  |
| 78      | 30  | 60        | 651332 | 3769.98   | DFT-s-OFDM QPSK   | 1@160  | 25.88                | 21.88     | 0.1542  |
| 78      | 30  | 60        | 651332 | 3769.98   | DFT-s-OFDM 16 QAM | 81@40  | 24.91                | 20.91     | 0.1233  |
| 78      | 30  | 60        | 651332 | 3769.98   | DFT-s-OFDM 16 QAM | 1@1    | 25.16                | 21.16     | 0.1306  |
| 78      | 30  | 60        | 651332 | 3769.98   | DFT-s-OFDM 16 QAM | 1@160  | 24.91                | 20.91     | 0.1233  |
| 78      | 30  | 70        | 649000 | 3735      | DFT-s-OFDM QPSK   | 90@45  | 26                   | 22        | 0.1585  |
| 78      | 30  | 70        | 649000 | 3735      | DFT-s-OFDM QPSK   | 1@1    | 25.92                | 21.92     | 0.1556  |
| 78      | 30  | 70        | 649000 | 3735      | DFT-s-OFDM QPSK   | 1@187  | 26.11                | 22.11     | 0.1626  |
| 78      | 30  | 70        | 649000 | 3735      | DFT-s-OFDM 16 QAM | 90@45  | 24.91                | 20.91     | 0.1233  |
| 78      | 30  | 70        | 649000 | 3735      | DFT-s-OFDM 16 QAM | 1@1    | 25.02                | 21.02     | 0.1265  |
| 78      | 30  | 70        | 649000 | 3735      | DFT-s-OFDM 16 QAM | 1@187  | 25.1                 | 21.1      | 0.1288  |
| 78      | 30  | 70        | 650000 | 3750      | DFT-s-OFDM QPSK   | 90@45  | 26.08                | 22.08     | 0.1614  |
| 78      | 30  | 70        | 650000 | 3750      | DFT-s-OFDM QPSK   | 1@1    | 26.17                | 22.17     | 0.1648  |
| 78      | 30  | 70        | 650000 | 3750      | DFT-s-OFDM QPSK   | 1@187  | 25.9                 | 21.9      | 0.1549  |
| 78      | 30  | 70        | 650000 | 3750      | DFT-s-OFDM 16 QAM | 90@45  | 25.01                | 21.01     | 0.1262  |
| 78      | 30  | 70        | 650000 | 3750      | DFT-s-OFDM 16 QAM | 1@1    | 25.24                | 21.24     | 0.1330  |
| 78      | 30  | 70        | 650000 | 3750      | DFT-s-OFDM 16 QAM | 1@187  | 24.9                 | 20.9      | 0.1230  |
| 78      | 30  | 70        | 651000 | 3765      | DFT-s-OFDM QPSK   | 90@45  | 26.1                 | 22.1      | 0.1622  |
| 78      | 30  | 70        | 651000 | 3765      | DFT-s-OFDM QPSK   | 1@1    | 26.18                | 22.18     | 0.1652  |
| 78      | 30  | 70        | 651000 | 3765      | DFT-s-OFDM QPSK   | 1@187  | 25.79                | 21.79     | 0.1510  |
| 78      | 30  | 70        | 651000 | 3765      | DFT-s-OFDM 16 QAM | 90@45  | 24.99                | 20.99     | 0.1256  |
| 78      | 30  | 70        | 651000 | 3765      | DFT-s-OFDM 16 QAM | 1@1    | 25.23                | 21.23     | 0.1327  |
| 78      | 30  | 70        | 651000 | 3765      | DFT-s-OFDM 16 QAM | 1@187  | 24.86                | 20.86     | 0.1219  |
| 78      | 30  | 80        | 649334 | 3740.01   | DFT-s-OFDM QPSK   | 108@54 | 25.96                | 21.96     | 0.1570  |
| 78      | 30  | 80        | 649334 | 3740.01   | DFT-s-OFDM QPSK   | 1@1    | 25.86                | 21.86     | 0.1535  |
| 78      | 30  | 80        | 649334 | 3740.01   | DFT-s-OFDM QPSK   | 1@215  | 25.87                | 21.87     | 0.1538  |
| 78      | 30  | 80        | 649334 | 3740.01   | DFT-s-OFDM 16 QAM | 108@54 | 24.93                | 20.93     | 0.1239  |
| 78      | 30  | 80        | 649334 | 3740.01   | DFT-s-OFDM 16 QAM | 1@1    | 24.98                | 20.98     | 0.1253  |
| 78      | 30  | 80        | 649334 | 3740.01   | DFT-s-OFDM 16 QAM | 1@215  | 24.96                | 20.96     | 0.1247  |



| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation           | RB     | Conducted Power(dBm) | EIRP(dBm) | EIRP(W) |
|---------|-----|-----------|--------|-----------|----------------------|--------|----------------------|-----------|---------|
| 78      | 30  | 80        | 650000 | 3750      | DFT-s-OFDM QPSK      | 108@54 | 26.06                | 22.06     | 0.1607  |
| 78      | 30  | 80        | 650000 | 3750      | DFT-s-OFDM QPSK      | 1@1    | 26.05                | 22.05     | 0.1603  |
| 78      | 30  | 80        | 650000 | 3750      | DFT-s-OFDM QPSK      | 1@215  | 25.88                | 21.88     | 0.1542  |
| 78      | 30  | 80        | 650000 | 3750      | DFT-s-OFDM 16 QAM    | 108@54 | 25                   | 21        | 0.1259  |
| 78      | 30  | 80        | 650000 | 3750      | DFT-s-OFDM 16 QAM    | 1@1    | 25.1                 | 21.1      | 0.1288  |
| 78      | 30  | 80        | 650000 | 3750      | DFT-s-OFDM 16 QAM    | 1@215  | 24.88                | 20.88     | 0.1225  |
| 78      | 30  | 80        | 650666 | 3759.99   | DFT-s-OFDM QPSK      | 108@54 | 26.01                | 22.01     | 0.1589  |
| 78      | 30  | 80        | 650666 | 3759.99   | DFT-s-OFDM QPSK      | 1@1    | 26.06                | 22.06     | 0.1607  |
| 78      | 30  | 80        | 650666 | 3759.99   | DFT-s-OFDM QPSK      | 1@215  | 25.78                | 21.78     | 0.1507  |
| 78      | 30  | 80        | 650666 | 3759.99   | DFT-s-OFDM 16 QAM    | 108@54 | 24.96                | 20.96     | 0.1247  |
| 78      | 30  | 80        | 650666 | 3759.99   | DFT-s-OFDM 16 QAM    | 1@1    | 25.14                | 21.14     | 0.1300  |
| 78      | 30  | 80        | 650666 | 3759.99   | DFT-s-OFDM 16 QAM    | 1@215  | 24.82                | 20.82     | 0.1208  |
| 78      | 30  | 90        | 649668 | 3745.02   | DFT-s-OFDM QPSK      | 120@60 | 25.94                | 21.94     | 0.1563  |
| 78      | 30  | 90        | 649668 | 3745.02   | DFT-s-OFDM QPSK      | 1@1    | 25.93                | 21.93     | 0.1560  |
| 78      | 30  | 90        | 649668 | 3745.02   | DFT-s-OFDM QPSK      | 1@243  | 25.86                | 21.86     | 0.1535  |
| 78      | 30  | 90        | 649668 | 3745.02   | DFT-s-OFDM 16 QAM    | 120@60 | 24.91                | 20.91     | 0.1233  |
| 78      | 30  | 90        | 649668 | 3745.02   | DFT-s-OFDM 16 QAM    | 1@1    | 25.03                | 21.03     | 0.1268  |
| 78      | 30  | 90        | 649668 | 3745.02   | DFT-s-OFDM 16 QAM    | 1@243  | 24.88                | 20.88     | 0.1225  |
| 78      | 30  | 90        | 650000 | 3750      | DFT-s-OFDM QPSK      | 120@60 | 25.96                | 21.96     | 0.1570  |
| 78      | 30  | 90        | 650000 | 3750      | DFT-s-OFDM QPSK      | 1@1    | 25.93                | 21.93     | 0.1560  |
| 78      | 30  | 90        | 650000 | 3750      | DFT-s-OFDM QPSK      | 1@243  | 25.85                | 21.85     | 0.1531  |
| 78      | 30  | 90        | 650000 | 3750      | DFT-s-OFDM 16 QAM    | 120@60 | 24.92                | 20.92     | 0.1236  |
| 78      | 30  | 90        | 650000 | 3750      | DFT-s-OFDM 16 QAM    | 1@1    | 25                   | 21        | 0.1259  |
| 78      | 30  | 90        | 650000 | 3750      | DFT-s-OFDM 16 QAM    | 1@243  | 24.83                | 20.83     | 0.1211  |
| 78      | 30  | 90        | 650332 | 3754.98   | DFT-s-OFDM QPSK      | 120@60 | 25.89                | 21.89     | 0.1545  |
| 78      | 30  | 90        | 650332 | 3754.98   | DFT-s-OFDM QPSK      | 1@1    | 26.06                | 22.06     | 0.1607  |
| 78      | 30  | 90        | 650332 | 3754.98   | DFT-s-OFDM QPSK      | 1@243  | 25.78                | 21.78     | 0.1507  |
| 78      | 30  | 90        | 650332 | 3754.98   | DFT-s-OFDM 16 QAM    | 120@60 | 24.84                | 20.84     | 0.1213  |
| 78      | 30  | 90        | 650332 | 3754.98   | DFT-s-OFDM 16 QAM    | 1@1    | 25.12                | 21.12     | 0.1294  |
| 78      | 30  | 90        | 650332 | 3754.98   | DFT-s-OFDM 16 QAM    | 1@243  | 24.78                | 20.78     | 0.1197  |
| 78      | 30  | 100       | 650000 | 3750      | DFT-s-OFDM PI/2 BPSK | 135@67 | 26.38                | 22.38     | 0.1730  |
| 78      | 30  | 100       | 650000 | 3750      | DFT-s-OFDM PI/2 BPSK | 1@1    | 26.31                | 22.31     | 0.1702  |
| 78      | 30  | 100       | 650000 | 3750      | DFT-s-OFDM PI/2 BPSK | 1@271  | 26.39                | 22.39     | 0.1734  |
| 78      | 30  | 100       | 650000 | 3750      | DFT-s-OFDM QPSK      | 135@67 | 26.31                | 22.31     | 0.1702  |
| 78      | 30  | 100       | 650000 | 3750      | DFT-s-OFDM QPSK      | 1@1    | 26.36                | 22.36     | 0.1722  |
| 78      | 30  | 100       | 650000 | 3750      | DFT-s-OFDM QPSK      | 1@271  | 26.38                | 22.38     | 0.1730  |
| 78      | 30  | 100       | 650000 | 3750      | DFT-s-OFDM 16 QAM    | 135@67 | 25.3                 | 21.3      | 0.1349  |
| 78      | 30  | 100       | 650000 | 3750      | DFT-s-OFDM 16 QAM    | 1@1    | 25.54                | 21.54     | 0.1426  |
| 78      | 30  | 100       | 650000 | 3750      | DFT-s-OFDM 16 QAM    | 1@271  | 25.58                | 21.58     | 0.1439  |
| 78      | 30  | 100       | 650000 | 3750      | DFT-s-OFDM 64 QAM    | 135@67 | 23.83                | 19.83     | 0.0962  |





| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation         | RB     | Conducted Power(dBm) | EIRP(dBm) | EIRP(W) |
|---------|-----|-----------|--------|-----------|--------------------|--------|----------------------|-----------|---------|
| 78      | 30  | 100       | 650000 | 3750      | DFT-s-OFDM 64 QAM  | 1@1    | 24.05                | 20.05     | 0.1012  |
| 78      | 30  | 100       | 650000 | 3750      | DFT-s-OFDM 64 QAM  | 1@271  | 24.02                | 20.02     | 0.1005  |
| 78      | 30  | 100       | 650000 | 3750      | DFT-s-OFDM 256 QAM | 135@67 | 22.32                | 18.32     | 0.0679  |
| 78      | 30  | 100       | 650000 | 3750      | DFT-s-OFDM 256 QAM | 1@1    | 22.32                | 18.32     | 0.0679  |
| 78      | 30  | 100       | 650000 | 3750      | DFT-s-OFDM 256 QAM | 1@271  | 22.13                | 18.13     | 0.0650  |
| 78      | 30  | 100       | 650000 | 3750      | CP-OFDM QPSK       | 137@68 | 24.6                 | 20.6      | 0.1148  |
| 78      | 30  | 100       | 650000 | 3750      | CP-OFDM QPSK       | 1@1    | 24.84                | 20.84     | 0.1213  |
| 78      | 30  | 100       | 650000 | 3750      | CP-OFDM QPSK       | 1@271  | 24.82                | 20.82     | 0.1208  |





## FR1 N77 MIMO-ANT(2+5)

Transmitter Conducted Output Power and EIRP, ( $G_T - L_C$ )=-4.0dB

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation     | RB    | ANT2 Power (dBm) | ANT5 Power (dBm) | Conducted Power(dBm) | EIRP (dBm) | EIRP (W) |
|---------|-----|-----------|--------|-----------|----------------|-------|------------------|------------------|----------------------|------------|----------|
| 77      | 30  | 20        | 647334 | 3710.01   | CP-OFDM QPSK   | 25@12 | 21.63            | 22.04            | 24.85                | 20.85      | 0.1216   |
| 77      | 30  | 20        | 647334 | 3710.01   | CP-OFDM QPSK   | 1@1   | 21.64            | 22.07            | 24.87                | 20.87      | 0.1222   |
| 77      | 30  | 20        | 647334 | 3710.01   | CP-OFDM QPSK   | 1@49  | 21.65            | 22.09            | 24.89                | 20.89      | 0.1227   |
| 77      | 30  | 20        | 647334 | 3710.01   | CP-OFDM 16 QAM | 25@12 | 21.2             | 21.58            | 24.40                | 20.4       | 0.1096   |
| 77      | 30  | 20        | 647334 | 3710.01   | CP-OFDM 16 QAM | 1@1   | 20.97            | 21.86            | 24.45                | 20.45      | 0.1109   |
| 77      | 30  | 20        | 647334 | 3710.01   | CP-OFDM 16 QAM | 1@49  | 21               | 21.89            | 24.48                | 20.48      | 0.1117   |
| 77      | 30  | 20        | 656000 | 3840      | CP-OFDM QPSK   | 25@12 | 21.79            | 21.96            | 24.89                | 20.89      | 0.1227   |
| 77      | 30  | 20        | 656000 | 3840      | CP-OFDM QPSK   | 1@1   | 21.73            | 21.99            | 24.87                | 20.87      | 0.1222   |
| 77      | 30  | 20        | 656000 | 3840      | CP-OFDM QPSK   | 1@49  | 21.77            | 21.94            | 24.87                | 20.87      | 0.1222   |
| 77      | 30  | 20        | 656000 | 3840      | CP-OFDM 16 QAM | 25@12 | 21.35            | 21.51            | 24.44                | 20.44      | 0.1107   |
| 77      | 30  | 20        | 656000 | 3840      | CP-OFDM 16 QAM | 1@1   | 21.18            | 21.86            | 24.54                | 20.54      | 0.1132   |
| 77      | 30  | 20        | 656000 | 3840      | CP-OFDM 16 QAM | 1@49  | 21.12            | 21.85            | 24.51                | 20.51      | 0.1125   |
| 77      | 30  | 20        | 664666 | 3969.99   | CP-OFDM QPSK   | 25@12 | 22.26            | 22.39            | 25.34                | 21.34      | 0.1361   |
| 77      | 30  | 20        | 664666 | 3969.99   | CP-OFDM QPSK   | 1@1   | 22.37            | 22.21            | 25.30                | 21.3       | 0.1349   |
| 77      | 30  | 20        | 664666 | 3969.99   | CP-OFDM QPSK   | 1@49  | 22.3             | 22.39            | 25.36                | 21.36      | 0.1368   |
| 77      | 30  | 20        | 664666 | 3969.99   | CP-OFDM 16 QAM | 25@12 | 21.8             | 21.83            | 24.83                | 20.83      | 0.1211   |
| 77      | 30  | 20        | 664666 | 3969.99   | CP-OFDM 16 QAM | 1@1   | 21.98            | 22.13            | 25.07                | 21.07      | 0.1279   |
| 77      | 30  | 20        | 664666 | 3969.99   | CP-OFDM 16 QAM | 1@49  | 21.96            | 22.09            | 25.04                | 21.04      | 0.1271   |
| 77      | 30  | 30        | 647668 | 3715.02   | CP-OFDM QPSK   | 39@19 | 21.7             | 22.14            | 24.94                | 20.94      | 0.1242   |
| 77      | 30  | 30        | 647668 | 3715.02   | CP-OFDM QPSK   | 1@1   | 21.67            | 22.12            | 24.91                | 20.91      | 0.1233   |
| 77      | 30  | 30        | 647668 | 3715.02   | CP-OFDM QPSK   | 1@76  | 21.78            | 22.1             | 24.95                | 20.95      | 0.1245   |
| 77      | 30  | 30        | 647668 | 3715.02   | CP-OFDM 16 QAM | 39@19 | 21.18            | 21.65            | 24.43                | 20.43      | 0.1104   |
| 77      | 30  | 30        | 647668 | 3715.02   | CP-OFDM 16 QAM | 1@1   | 21.22            | 21.86            | 24.56                | 20.56      | 0.1138   |
| 77      | 30  | 30        | 647668 | 3715.02   | CP-OFDM 16 QAM | 1@76  | 21.4             | 21.89            | 24.66                | 20.66      | 0.1164   |
| 77      | 30  | 30        | 656000 | 3840      | CP-OFDM QPSK   | 39@19 | 21.78            | 21.93            | 24.87                | 20.87      | 0.1222   |
| 77      | 30  | 30        | 656000 | 3840      | CP-OFDM QPSK   | 1@1   | 21.88            | 21.95            | 24.93                | 20.93      | 0.1239   |
| 77      | 30  | 30        | 656000 | 3840      | CP-OFDM QPSK   | 1@76  | 21.86            | 21.98            | 24.93                | 20.93      | 0.1239   |
| 77      | 30  | 30        | 656000 | 3840      | CP-OFDM 16 QAM | 39@19 | 21.24            | 21.52            | 24.39                | 20.39      | 0.1094   |
| 77      | 30  | 30        | 656000 | 3840      | CP-OFDM 16 QAM | 1@1   | 21.16            | 22.03            | 24.63                | 20.63      | 0.1156   |
| 77      | 30  | 30        | 656000 | 3840      | CP-OFDM 16 QAM | 1@76  | 21.42            | 21.86            | 24.66                | 20.66      | 0.1164   |
| 77      | 30  | 30        | 664332 | 3964.98   | CP-OFDM QPSK   | 39@19 | 22.22            | 22.21            | 25.23                | 21.23      | 0.1327   |
| 77      | 30  | 30        | 664332 | 3964.98   | CP-OFDM QPSK   | 1@1   | 22.53            | 22.32            | 25.44                | 21.44      | 0.1393   |
| 77      | 30  | 30        | 664332 | 3964.98   | CP-OFDM QPSK   | 1@76  | 22.32            | 22.43            | 25.39                | 21.39      | 0.1377   |



|    |    |    |        |         |                |       |       |       |       |       |        |
|----|----|----|--------|---------|----------------|-------|-------|-------|-------|-------|--------|
| 77 | 30 | 30 | 664332 | 3964.98 | CP-OFDM 16 QAM | 39@19 | 21.74 | 21.8  | 24.78 | 20.78 | 0.1197 |
| 77 | 30 | 30 | 664332 | 3964.98 | CP-OFDM 16 QAM | 1@1   | 22.12 | 22.21 | 25.18 | 21.18 | 0.1312 |
| 77 | 30 | 30 | 664332 | 3964.98 | CP-OFDM 16 QAM | 1@76  | 21.79 | 22.11 | 24.96 | 20.96 | 0.1247 |
| 77 | 30 | 40 | 648000 | 3720    | CP-OFDM QPSK   | 53@26 | 21.71 | 22.11 | 24.92 | 20.92 | 0.1236 |
| 77 | 30 | 40 | 648000 | 3720    | CP-OFDM QPSK   | 1@1   | 21.81 | 22.28 | 25.06 | 21.06 | 0.1276 |
| 77 | 30 | 40 | 648000 | 3720    | CP-OFDM QPSK   | 1@104 | 21.86 | 22.19 | 25.04 | 21.04 | 0.1271 |
| 77 | 30 | 40 | 648000 | 3720    | CP-OFDM 16 QAM | 53@26 | 21.23 | 21.63 | 24.44 | 20.44 | 0.1107 |
| 77 | 30 | 40 | 648000 | 3720    | CP-OFDM 16 QAM | 1@1   | 21.24 | 22.11 | 24.71 | 20.71 | 0.1178 |
| 77 | 30 | 40 | 648000 | 3720    | CP-OFDM 16 QAM | 1@104 | 21.41 | 21.98 | 24.71 | 20.71 | 0.1178 |
| 77 | 30 | 40 | 656000 | 3840    | CP-OFDM QPSK   | 53@26 | 21.74 | 21.98 | 24.87 | 20.87 | 0.1222 |
| 77 | 30 | 40 | 656000 | 3840    | CP-OFDM QPSK   | 1@1   | 21.99 | 22.09 | 25.05 | 21.05 | 0.1274 |
| 77 | 30 | 40 | 656000 | 3840    | CP-OFDM QPSK   | 1@104 | 21.85 | 22    | 24.94 | 20.94 | 0.1242 |
| 77 | 30 | 40 | 656000 | 3840    | CP-OFDM 16 QAM | 53@26 | 21.27 | 21.58 | 24.44 | 20.44 | 0.1107 |
| 77 | 30 | 40 | 656000 | 3840    | CP-OFDM 16 QAM | 1@1   | 21.8  | 22.07 | 24.95 | 20.95 | 0.1245 |
| 77 | 30 | 40 | 656000 | 3840    | CP-OFDM 16 QAM | 1@104 | 21.4  | 21.88 | 24.66 | 20.66 | 0.1164 |
| 77 | 30 | 40 | 664000 | 3960    | CP-OFDM QPSK   | 53@26 | 22.34 | 22.3  | 25.33 | 21.33 | 0.1358 |
| 77 | 30 | 40 | 664000 | 3960    | CP-OFDM QPSK   | 1@1   | 22.3  | 22.4  | 25.36 | 21.36 | 0.1368 |
| 77 | 30 | 40 | 664000 | 3960    | CP-OFDM QPSK   | 1@104 | 22.48 | 22.52 | 25.51 | 21.51 | 0.1416 |
| 77 | 30 | 40 | 664000 | 3960    | CP-OFDM 16 QAM | 53@26 | 21.86 | 21.86 | 24.87 | 20.87 | 0.1222 |
| 77 | 30 | 40 | 664000 | 3960    | CP-OFDM 16 QAM | 1@1   | 22.21 | 22.25 | 25.24 | 21.24 | 0.1330 |
| 77 | 30 | 40 | 664000 | 3960    | CP-OFDM 16 QAM | 1@104 | 21.93 | 22.3  | 25.13 | 21.13 | 0.1297 |
| 77 | 30 | 50 | 648334 | 3725.01 | CP-OFDM QPSK   | 67@33 | 21.55 | 22.04 | 24.81 | 20.81 | 0.1205 |
| 77 | 30 | 50 | 648334 | 3725.01 | CP-OFDM QPSK   | 1@1   | 21.56 | 22.08 | 24.84 | 20.84 | 0.1213 |
| 77 | 30 | 50 | 648334 | 3725.01 | CP-OFDM QPSK   | 1@131 | 21.63 | 21.92 | 24.79 | 20.79 | 0.1199 |
| 77 | 30 | 50 | 648334 | 3725.01 | CP-OFDM 16 QAM | 67@33 | 21.11 | 21.62 | 24.38 | 20.38 | 0.1091 |
| 77 | 30 | 50 | 648334 | 3725.01 | CP-OFDM 16 QAM | 1@1   | 21.15 | 21.89 | 24.55 | 20.55 | 0.1135 |
| 77 | 30 | 50 | 648334 | 3725.01 | CP-OFDM 16 QAM | 1@131 | 20.86 | 21.74 | 24.33 | 20.33 | 0.1079 |
| 77 | 30 | 50 | 656000 | 3840    | CP-OFDM QPSK   | 67@33 | 21.65 | 21.83 | 24.75 | 20.75 | 0.1189 |
| 77 | 30 | 50 | 656000 | 3840    | CP-OFDM QPSK   | 1@1   | 21.76 | 21.87 | 24.83 | 20.83 | 0.1211 |
| 77 | 30 | 50 | 656000 | 3840    | CP-OFDM QPSK   | 1@131 | 21.77 | 21.79 | 24.79 | 20.79 | 0.1199 |
| 77 | 30 | 50 | 656000 | 3840    | CP-OFDM 16 QAM | 67@33 | 21.19 | 21.57 | 24.39 | 20.39 | 0.1094 |
| 77 | 30 | 50 | 656000 | 3840    | CP-OFDM 16 QAM | 1@1   | 21.34 | 21.76 | 24.57 | 20.57 | 0.1140 |
| 77 | 30 | 50 | 656000 | 3840    | CP-OFDM 16 QAM | 1@131 | 21.1  | 21.69 | 24.42 | 20.42 | 0.1102 |
| 77 | 30 | 50 | 663666 | 3954.99 | CP-OFDM QPSK   | 67@33 | 22.19 | 22.1  | 25.16 | 21.16 | 0.1306 |
| 77 | 30 | 50 | 663666 | 3954.99 | CP-OFDM QPSK   | 1@1   | 22.34 | 22.19 | 25.28 | 21.28 | 0.1343 |
| 77 | 30 | 50 | 663666 | 3954.99 | CP-OFDM QPSK   | 1@131 | 22.29 | 22.26 | 25.29 | 21.29 | 0.1346 |
| 77 | 30 | 50 | 663666 | 3954.99 | CP-OFDM 16 QAM | 67@33 | 21.75 | 21.7  | 24.74 | 20.74 | 0.1186 |
| 77 | 30 | 50 | 663666 | 3954.99 | CP-OFDM 16 QAM | 1@1   | 22.03 | 21.97 | 25.01 | 21.01 | 0.1262 |
| 77 | 30 | 50 | 663666 | 3954.99 | CP-OFDM 16 QAM | 1@131 | 21.74 | 22.06 | 24.91 | 20.91 | 0.1233 |
| 77 | 30 | 60 | 648668 | 3730.02 | CP-OFDM QPSK   | 81@40 | 21.59 | 22    | 24.81 | 20.81 | 0.1205 |
| 77 | 30 | 60 | 648668 | 3730.02 | CP-OFDM QPSK   | 1@1   | 21.61 | 22.06 | 24.85 | 20.85 | 0.1216 |



|    |    |    |        |         |                |        |       |       |       |       |        |
|----|----|----|--------|---------|----------------|--------|-------|-------|-------|-------|--------|
| 77 | 30 | 60 | 648668 | 3730.02 | CP-OFDM QPSK   | 1@160  | 21.64 | 22.03 | 24.85 | 20.85 | 0.1216 |
| 77 | 30 | 60 | 648668 | 3730.02 | CP-OFDM 16 QAM | 81@40  | 21.09 | 21.48 | 24.30 | 20.3  | 0.1072 |
| 77 | 30 | 60 | 648668 | 3730.02 | CP-OFDM 16 QAM | 1@1    | 21.07 | 21.9  | 24.52 | 20.52 | 0.1127 |
| 77 | 30 | 60 | 648668 | 3730.02 | CP-OFDM 16 QAM | 1@160  | 21.32 | 21.82 | 24.59 | 20.59 | 0.1146 |
| 77 | 30 | 60 | 656000 | 3840    | CP-OFDM QPSK   | 81@40  | 21.68 | 21.83 | 24.77 | 20.77 | 0.1194 |
| 77 | 30 | 60 | 656000 | 3840    | CP-OFDM QPSK   | 1@1    | 21.75 | 21.87 | 24.82 | 20.82 | 0.1208 |
| 77 | 30 | 60 | 656000 | 3840    | CP-OFDM QPSK   | 1@160  | 21.77 | 21.77 | 24.78 | 20.78 | 0.1197 |
| 77 | 30 | 60 | 656000 | 3840    | CP-OFDM 16 QAM | 81@40  | 21.15 | 21.44 | 24.31 | 20.31 | 0.1074 |
| 77 | 30 | 60 | 656000 | 3840    | CP-OFDM 16 QAM | 1@1    | 21.19 | 21.77 | 24.50 | 20.5  | 0.1122 |
| 77 | 30 | 60 | 656000 | 3840    | CP-OFDM 16 QAM | 1@160  | 21.29 | 21.65 | 24.48 | 20.48 | 0.1117 |
| 77 | 30 | 60 | 663332 | 3949.98 | CP-OFDM QPSK   | 81@40  | 22.26 | 22.22 | 25.25 | 21.25 | 0.1334 |
| 77 | 30 | 60 | 663332 | 3949.98 | CP-OFDM QPSK   | 1@1    | 22.18 | 22.21 | 25.21 | 21.21 | 0.1321 |
| 77 | 30 | 60 | 663332 | 3949.98 | CP-OFDM QPSK   | 1@160  | 22.27 | 22.22 | 25.26 | 21.26 | 0.1337 |
| 77 | 30 | 60 | 663332 | 3949.98 | CP-OFDM 16 QAM | 81@40  | 21.77 | 21.74 | 24.77 | 20.77 | 0.1194 |
| 77 | 30 | 60 | 663332 | 3949.98 | CP-OFDM 16 QAM | 1@1    | 21.48 | 22.15 | 24.84 | 20.84 | 0.1213 |
| 77 | 30 | 60 | 663332 | 3949.98 | CP-OFDM 16 QAM | 1@160  | 21.75 | 22.05 | 24.91 | 20.91 | 0.1233 |
| 77 | 30 | 70 | 649000 | 3735    | CP-OFDM QPSK   | 95@47  | 21.73 | 22.01 | 24.88 | 20.88 | 0.1225 |
| 77 | 30 | 70 | 649000 | 3735    | CP-OFDM QPSK   | 1@1    | 21.58 | 22.06 | 24.84 | 20.84 | 0.1213 |
| 77 | 30 | 70 | 649000 | 3735    | CP-OFDM QPSK   | 1@187  | 21.78 | 21.99 | 24.90 | 20.9  | 0.1230 |
| 77 | 30 | 70 | 649000 | 3735    | CP-OFDM 16 QAM | 95@47  | 21.24 | 21.51 | 24.39 | 20.39 | 0.1094 |
| 77 | 30 | 70 | 649000 | 3735    | CP-OFDM 16 QAM | 1@1    | 21.08 | 21.9  | 24.52 | 20.52 | 0.1127 |
| 77 | 30 | 70 | 649000 | 3735    | CP-OFDM 16 QAM | 1@187  | 21.02 | 21.79 | 24.43 | 20.43 | 0.1104 |
| 77 | 30 | 70 | 656000 | 3840    | CP-OFDM QPSK   | 95@47  | 21.58 | 21.81 | 24.71 | 20.71 | 0.1178 |
| 77 | 30 | 70 | 656000 | 3840    | CP-OFDM QPSK   | 1@1    | 21.85 | 21.84 | 24.86 | 20.86 | 0.1219 |
| 77 | 30 | 70 | 656000 | 3840    | CP-OFDM QPSK   | 1@187  | 21.58 | 21.73 | 24.67 | 20.67 | 0.1167 |
| 77 | 30 | 70 | 656000 | 3840    | CP-OFDM 16 QAM | 95@47  | 21.16 | 21.39 | 24.29 | 20.29 | 0.1069 |
| 77 | 30 | 70 | 656000 | 3840    | CP-OFDM 16 QAM | 1@1    | 21.32 | 21.82 | 24.59 | 20.59 | 0.1146 |
| 77 | 30 | 70 | 656000 | 3840    | CP-OFDM 16 QAM | 1@187  | 20.89 | 21.64 | 24.29 | 20.29 | 0.1069 |
| 77 | 30 | 70 | 663000 | 3945    | CP-OFDM QPSK   | 95@47  | 22.21 | 22.2  | 25.22 | 21.22 | 0.1324 |
| 77 | 30 | 70 | 663000 | 3945    | CP-OFDM QPSK   | 1@1    | 22.2  | 22.15 | 25.19 | 21.19 | 0.1315 |
| 77 | 30 | 70 | 663000 | 3945    | CP-OFDM QPSK   | 1@187  | 22.28 | 22.16 | 25.23 | 21.23 | 0.1327 |
| 77 | 30 | 70 | 663000 | 3945    | CP-OFDM 16 QAM | 95@47  | 21.72 | 21.79 | 24.77 | 20.77 | 0.1194 |
| 77 | 30 | 70 | 663000 | 3945    | CP-OFDM 16 QAM | 1@1    | 21.54 | 22.11 | 24.84 | 20.84 | 0.1213 |
| 77 | 30 | 70 | 663000 | 3945    | CP-OFDM 16 QAM | 1@187  | 21.76 | 22.1  | 24.94 | 20.94 | 0.1242 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM QPSK   | 109@54 | 21.71 | 22.02 | 24.88 | 20.88 | 0.1225 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM QPSK   | 1@1    | 21.64 | 21.96 | 24.81 | 20.81 | 0.1205 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM QPSK   | 1@215  | 21.73 | 22.01 | 24.88 | 20.88 | 0.1225 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM 16 QAM | 109@54 | 21.19 | 21.52 | 24.37 | 20.37 | 0.1089 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM 16 QAM | 1@1    | 21.08 | 21.77 | 24.45 | 20.45 | 0.1109 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM 16 QAM | 1@215  | 21.19 | 21.81 | 24.52 | 20.52 | 0.1127 |
| 77 | 30 | 80 | 656000 | 3840    | CP-OFDM QPSK   | 109@54 | 21.65 | 21.83 | 24.75 | 20.75 | 0.1189 |



|    |    |     |        |         |                 |        |       |       |       |       |        |
|----|----|-----|--------|---------|-----------------|--------|-------|-------|-------|-------|--------|
| 77 | 30 | 80  | 656000 | 3840    | CP-OFDM QPSK    | 1@1    | 21.85 | 21.74 | 24.81 | 20.81 | 0.1205 |
| 77 | 30 | 80  | 656000 | 3840    | CP-OFDM QPSK    | 1@215  | 21.69 | 21.71 | 24.71 | 20.71 | 0.1178 |
| 77 | 30 | 80  | 656000 | 3840    | CP-OFDM 16 QAM  | 109@54 | 21.13 | 21.44 | 24.30 | 20.3  | 0.1072 |
| 77 | 30 | 80  | 656000 | 3840    | CP-OFDM 16 QAM  | 1@1    | 21.41 | 21.78 | 24.61 | 20.61 | 0.1151 |
| 77 | 30 | 80  | 656000 | 3840    | CP-OFDM 16 QAM  | 1@215  | 21.22 | 21.71 | 24.48 | 20.48 | 0.1117 |
| 77 | 30 | 80  | 662666 | 3939.99 | CP-OFDM QPSK    | 109@54 | 22.18 | 22.11 | 25.16 | 21.16 | 0.1306 |
| 77 | 30 | 80  | 662666 | 3939.99 | CP-OFDM QPSK    | 1@1    | 21.86 | 22.21 | 25.05 | 21.05 | 0.1274 |
| 77 | 30 | 80  | 662666 | 3939.99 | CP-OFDM QPSK    | 1@215  | 22.2  | 22.07 | 25.15 | 21.15 | 0.1303 |
| 77 | 30 | 80  | 662666 | 3939.99 | CP-OFDM 16 QAM  | 109@54 | 21.68 | 21.72 | 24.71 | 20.71 | 0.1178 |
| 77 | 30 | 80  | 662666 | 3939.99 | CP-OFDM 16 QAM  | 1@1    | 21.21 | 22.06 | 24.67 | 20.67 | 0.1167 |
| 77 | 30 | 80  | 662666 | 3939.99 | CP-OFDM 16 QAM  | 1@215  | 21.73 | 22.02 | 24.89 | 20.89 | 0.1227 |
| 77 | 30 | 90  | 649668 | 3745.02 | CP-OFDM QPSK    | 123@61 | 21.7  | 22.08 | 24.90 | 20.9  | 0.1230 |
| 77 | 30 | 90  | 649668 | 3745.02 | CP-OFDM QPSK    | 1@1    | 21.57 | 22.07 | 24.84 | 20.84 | 0.1213 |
| 77 | 30 | 90  | 649668 | 3745.02 | CP-OFDM QPSK    | 1@243  | 21.76 | 22.05 | 24.92 | 20.92 | 0.1236 |
| 77 | 30 | 90  | 649668 | 3745.02 | CP-OFDM 16 QAM  | 123@61 | 21.25 | 21.6  | 24.44 | 20.44 | 0.1107 |
| 77 | 30 | 90  | 649668 | 3745.02 | CP-OFDM 16 QAM  | 1@1    | 21.12 | 21.91 | 24.54 | 20.54 | 0.1132 |
| 77 | 30 | 90  | 649668 | 3745.02 | CP-OFDM 16 QAM  | 1@243  | 21.29 | 21.87 | 24.60 | 20.6  | 0.1148 |
| 77 | 30 | 90  | 656000 | 3840    | CP-OFDM QPSK    | 123@61 | 21.65 | 21.83 | 24.75 | 20.75 | 0.1189 |
| 77 | 30 | 90  | 656000 | 3840    | CP-OFDM QPSK    | 1@1    | 21.81 | 21.77 | 24.80 | 20.8  | 0.1202 |
| 77 | 30 | 90  | 656000 | 3840    | CP-OFDM QPSK    | 1@243  | 21.66 | 21.8  | 24.74 | 20.74 | 0.1186 |
| 77 | 30 | 90  | 656000 | 3840    | CP-OFDM 16 QAM  | 123@61 | 21.16 | 21.43 | 24.31 | 20.31 | 0.1074 |
| 77 | 30 | 90  | 656000 | 3840    | CP-OFDM 16 QAM  | 1@1    | 21.33 | 21.85 | 24.61 | 20.61 | 0.1151 |
| 77 | 30 | 90  | 656000 | 3840    | CP-OFDM 16 QAM  | 1@243  | 21.27 | 21.73 | 24.52 | 20.52 | 0.1127 |
| 77 | 30 | 90  | 662332 | 3934.98 | CP-OFDM QPSK    | 123@61 | 22.1  | 22.07 | 25.10 | 21.1  | 0.1288 |
| 77 | 30 | 90  | 662332 | 3934.98 | CP-OFDM QPSK    | 1@1    | 21.79 | 22.09 | 24.95 | 20.95 | 0.1245 |
| 77 | 30 | 90  | 662332 | 3934.98 | CP-OFDM QPSK    | 1@243  | 22.23 | 22.11 | 25.18 | 21.18 | 0.1312 |
| 77 | 30 | 90  | 662332 | 3934.98 | CP-OFDM 16 QAM  | 123@61 | 21.63 | 21.7  | 24.68 | 20.68 | 0.1169 |
| 77 | 30 | 90  | 662332 | 3934.98 | CP-OFDM 16 QAM  | 1@1    | 21.35 | 22.04 | 24.72 | 20.72 | 0.1180 |
| 77 | 30 | 90  | 662332 | 3934.98 | CP-OFDM 16 QAM  | 1@243  | 21.76 | 22    | 24.89 | 20.89 | 0.1227 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM QPSK    | 137@68 | 21.99 | 21.94 | 24.98 | 20.98 | 0.1253 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM QPSK    | 1@1    | 21.92 | 21.82 | 24.88 | 20.88 | 0.1225 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM QPSK    | 1@271  | 22.17 | 22.02 | 25.11 | 21.11 | 0.1291 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM 16 QAM  | 137@68 | 21.53 | 21.49 | 24.52 | 20.52 | 0.1127 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM 16 QAM  | 1@1    | 21.57 | 21.71 | 24.65 | 20.65 | 0.1161 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM 16 QAM  | 1@271  | 21.56 | 21.86 | 24.72 | 20.72 | 0.1180 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM 64 QAM  | 137@68 | 20.02 | 20.32 | 23.18 | 19.18 | 0.0828 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM 64 QAM  | 1@1    | 19.8  | 20.19 | 23.01 | 19.01 | 0.0796 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM 64 QAM  | 1@271  | 19.9  | 20.37 | 23.15 | 19.15 | 0.0822 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM 256 QAM | 137@68 | 17.06 | 17.28 | 20.18 | 16.18 | 0.0415 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM 256 QAM | 1@1    | 17.11 | 17.22 | 20.18 | 16.18 | 0.0415 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM 256 QAM | 1@271  | 17.23 | 17.3  | 20.28 | 16.28 | 0.0425 |



|    |    |     |        |      |                 |        |       |       |       |       |        |
|----|----|-----|--------|------|-----------------|--------|-------|-------|-------|-------|--------|
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM QPSK    | 137@68 | 21.84 | 22.04 | 24.95 | 20.95 | 0.1245 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM QPSK    | 1@1    | 22.03 | 22.02 | 25.04 | 21.04 | 0.1271 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM QPSK    | 1@271  | 21.65 | 22.27 | 24.98 | 20.98 | 0.1253 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM 16 QAM  | 137@68 | 21.32 | 21.9  | 24.63 | 20.63 | 0.1156 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM 16 QAM  | 1@1    | 21.5  | 22.13 | 24.84 | 20.84 | 0.1213 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM 16 QAM  | 1@271  | 21.18 | 22.36 | 24.82 | 20.82 | 0.1208 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM 64 QAM  | 137@68 | 19.89 | 20.42 | 23.17 | 19.17 | 0.0826 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM 64 QAM  | 1@1    | 19.82 | 20.46 | 23.16 | 19.16 | 0.0824 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM 64 QAM  | 1@271  | 19.46 | 20.57 | 23.06 | 19.06 | 0.0805 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM 256 QAM | 137@68 | 17.11 | 17.32 | 20.23 | 16.23 | 0.0420 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM 256 QAM | 1@1    | 17.27 | 17.46 | 20.38 | 16.38 | 0.0435 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM 256 QAM | 1@271  | 16.89 | 17.57 | 20.25 | 16.25 | 0.0422 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM QPSK    | 137@68 | 22.19 | 22.56 | 25.39 | 21.39 | 0.1377 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM QPSK    | 1@1    | 21.92 | 22.44 | 25.20 | 21.2  | 0.1318 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM QPSK    | 1@271  | 22.68 | 22.42 | 25.56 | 21.56 | 0.1432 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM 16 QAM  | 137@68 | 21.73 | 22.34 | 25.06 | 21.06 | 0.1276 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM 16 QAM  | 1@1    | 21.43 | 22.58 | 25.05 | 21.05 | 0.1274 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM 16 QAM  | 1@271  | 21.85 | 22.46 | 25.18 | 21.18 | 0.1312 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM 64 QAM  | 137@68 | 20.17 | 20.87 | 23.54 | 19.54 | 0.0899 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM 64 QAM  | 1@1    | 19.82 | 20.84 | 23.37 | 19.37 | 0.0865 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM 64 QAM  | 1@271  | 20.13 | 20.79 | 23.48 | 19.48 | 0.0887 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM 256 QAM | 137@68 | 17.17 | 17.76 | 20.49 | 16.49 | 0.0446 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM 256 QAM | 1@1    | 17.17 | 17.91 | 20.57 | 16.57 | 0.0454 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM 256 QAM | 1@271  | 17.44 | 17.75 | 20.61 | 16.61 | 0.0458 |



## FR1 N77 MIMO-ANT(2+5)\_ANT2

## Frequency Stability

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation   | RB   | Deviation (Hz) | Verdict | Environment |
|---------|-----------|-----------------|--------|------------|--------------|------|----------------|---------|-------------|
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 17.2           | PASS    | NV          |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 19.3           | PASS    | LV          |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 15.4           | PASS    | HV          |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 16.4           | PASS    | -30°C       |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 11.6           | PASS    | -20°C       |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 17.2           | PASS    | -10°C       |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 18.6           | PASS    | 0°C         |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 17.2           | PASS    | 10°C        |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 19             | PASS    | 20°C        |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 16.9           | PASS    | 30°C        |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 19.2           | PASS    | 40°C        |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 11.8           | PASS    | 50°C        |

 $|\text{MAX}(\Delta f)| = 19.3 \text{ Hz}$ 

| Frequency Stability            | Frequency (MHz) | Limit Line              | Result |
|--------------------------------|-----------------|-------------------------|--------|
| $f_L -  \text{MAX}(\Delta f) $ | 3700.5546807    | $\geq 3700 \text{ MHz}$ | PASS   |
| $f_H +  \text{MAX}(\Delta f) $ | 3979.3451193    | $\leq 3980 \text{ MHz}$ |        |



## Peak to Average Ratio

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation   | RB   | Result (dB) | Limit (dB) | Verdict |
|---------|-----------|-----------------|--------|------------|--------------|------|-------------|------------|---------|
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 7.22        | 13         | PASS    |

### N77(20M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH







## Occupied Bandwidth

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation      | RB    | OBW (MHz) | 26dB BW (MHz) |
|---------|-----------|-----------------|--------|------------|-----------------|-------|-----------|---------------|
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK    | 51@0  | 18.227    | 19.25         |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 51@0  | 18.14     | 19.25         |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 51@0  | 18.197    | 19.05         |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM 256 QAM | 51@0  | 18.224    | 19.85         |
| 77      | 30        | 30              | 656000 | 3840.0     | CP-OFDM QPSK    | 78@0  | 27.781    | 29.25         |
| 77      | 30        | 30              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 78@0  | 27.786    | 28.92         |
| 77      | 30        | 30              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 78@0  | 27.787    | 29.21         |
| 77      | 30        | 30              | 656000 | 3840.0     | CP-OFDM 256 QAM | 78@0  | 27.935    | 28.79         |
| 77      | 30        | 40              | 656000 | 3840.0     | CP-OFDM QPSK    | 106@0 | 37.841    | 39.53         |
| 77      | 30        | 40              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 106@0 | 37.839    | 39.37         |
| 77      | 30        | 40              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 106@0 | 37.762    | 39.2          |
| 77      | 30        | 40              | 656000 | 3840.0     | CP-OFDM 256 QAM | 106@0 | 37.792    | 39.34         |
| 77      | 30        | 50              | 656000 | 3840.0     | CP-OFDM QPSK    | 133@0 | 47.549    | 49.01         |
| 77      | 30        | 50              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 133@0 | 47.443    | 49.13         |
| 77      | 30        | 50              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 133@0 | 47.362    | 49.11         |
| 77      | 30        | 50              | 656000 | 3840.0     | CP-OFDM 256 QAM | 133@0 | 47.615    | 49.18         |
| 77      | 30        | 60              | 656000 | 3840.0     | CP-OFDM QPSK    | 162@0 | 57.835    | 60.1          |
| 77      | 30        | 60              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 162@0 | 57.824    | 59.88         |
| 77      | 30        | 60              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 162@0 | 57.916    | 59.85         |
| 77      | 30        | 60              | 656000 | 3840.0     | CP-OFDM 256 QAM | 162@0 | 57.58     | 60.11         |
| 77      | 30        | 70              | 656000 | 3840.0     | CP-OFDM QPSK    | 189@0 | 67.474    | 69.71         |
| 77      | 30        | 70              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 189@0 | 67.711    | 70.86         |
| 77      | 30        | 70              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 189@0 | 67.581    | 69.9          |
| 77      | 30        | 70              | 656000 | 3840.0     | CP-OFDM 256 QAM | 189@0 | 67.963    | 69.7          |
| 77      | 30        | 80              | 656000 | 3840.0     | CP-OFDM QPSK    | 217@0 | 77.565    | 79.95         |
| 77      | 30        | 80              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 217@0 | 77.331    | 79.9          |
| 77      | 30        | 80              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 217@0 | 77.553    | 80.11         |
| 77      | 30        | 80              | 656000 | 3840.0     | CP-OFDM 256 QAM | 217@0 | 77.481    | 79.98         |
| 77      | 30        | 90              | 656000 | 3840.0     | CP-OFDM QPSK    | 245@0 | 87.506    | 90.32         |
| 77      | 30        | 90              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 245@0 | 87.55     | 90.34         |
| 77      | 30        | 90              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 245@0 | 87.724    | 90.3          |
| 77      | 30        | 90              | 656000 | 3840.0     | CP-OFDM 256 QAM | 245@0 | 87.665    | 90.34         |
| 77      | 30        | 100             | 656000 | 3840.0     | CP-OFDM QPSK    | 273@0 | 97.417    | 100.4         |
| 77      | 30        | 100             | 656000 | 3840.0     | CP-OFDM 16 QAM  | 273@0 | 97.609    | 100.5         |
| 77      | 30        | 100             | 656000 | 3840.0     | CP-OFDM 64 QAM  | 273@0 | 97.543    | 100.5         |
| 77      | 30        | 100             | 656000 | 3840.0     | CP-OFDM 256 QAM | 273@0 | 97.339    | 100.9         |



N77(20M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



N77(20M)\_CP-OFDM\_16  
QAM\_Outer\_Full\_Mid\_CH



N77(20M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH



N77(20M)\_CP-OFDM\_256  
QAM\_Outer\_Full\_Mid\_CH





N77(30M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



N77(30M)\_CP-OFDM\_16  
QAM\_Outer\_Full\_Mid\_CH



N77(30M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH



N77(30M)\_CP-OFDM\_256  
QAM\_Outer\_Full\_Mid\_CH

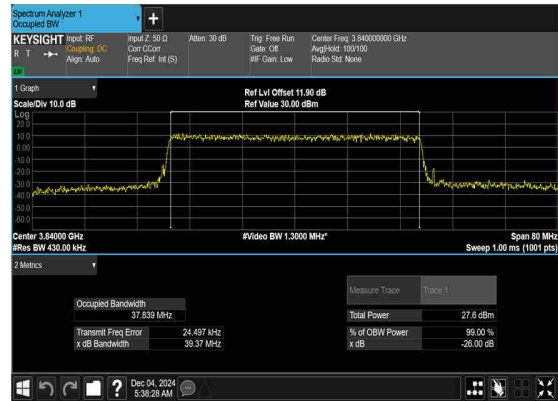




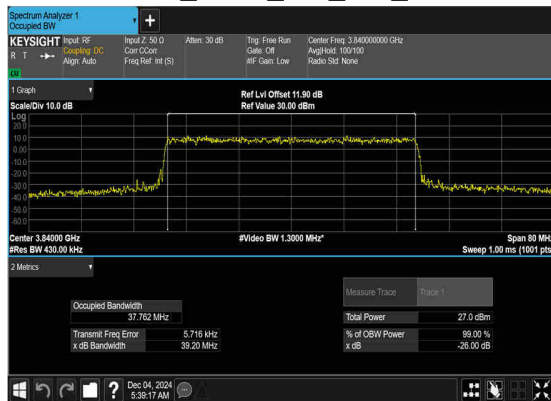
N77(40M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



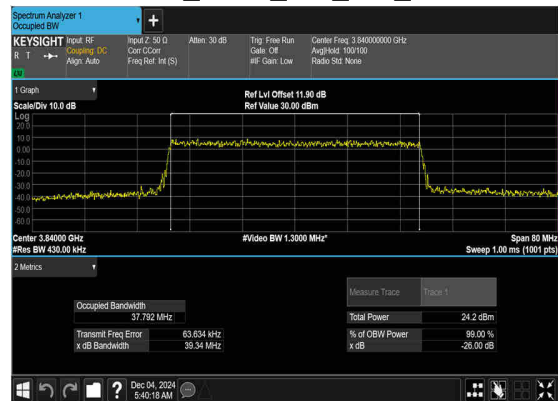
N77(40M)\_CP-OFDM\_16  
QAM\_Outer\_Full\_Mid\_CH



N77(40M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH

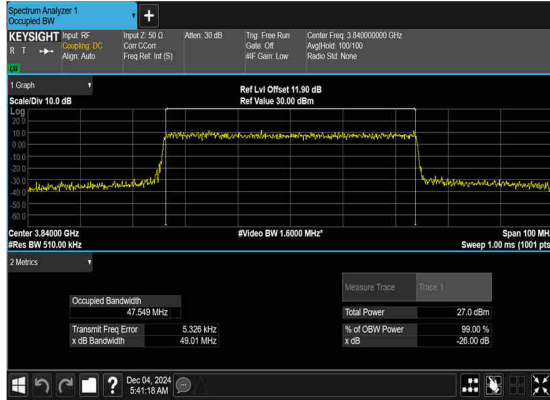


N77(40M)\_CP-OFDM\_256  
QAM\_Outer\_Full\_Mid\_CH





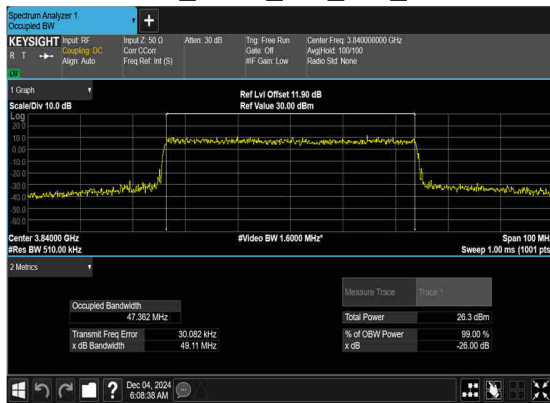
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OFDM\_QPSK\_Outer\_Full\_Mid\_CH



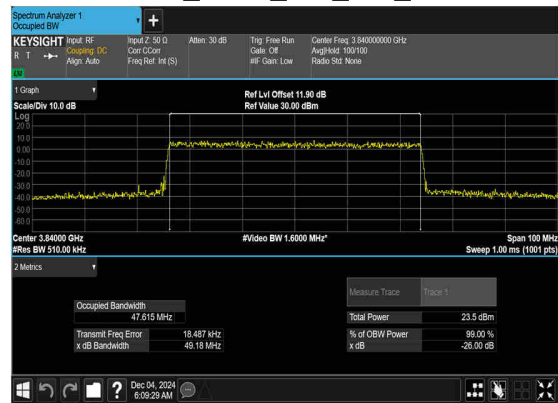
N77(50M)\_CP-OFDM\_16  
QAM\_Outer\_Full\_Mid\_CH



N77(50M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH

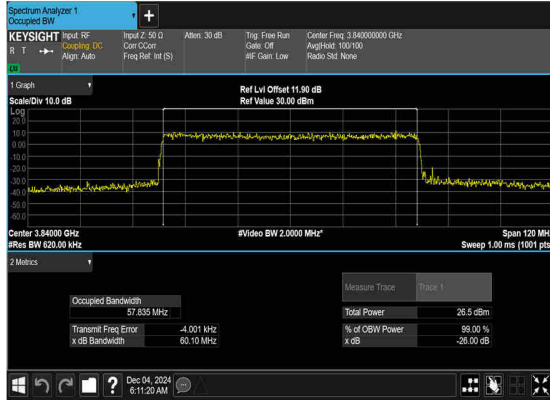


N77(50M)\_CP-OFDM\_256  
QAM\_Outer\_Full\_Mid\_CH





N77(60M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



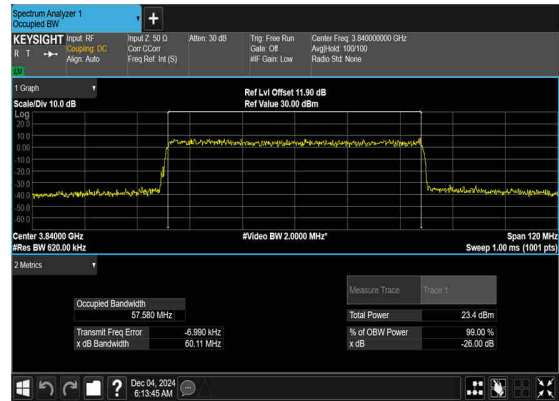
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QAM\_Outer\_Full\_Mid\_CH



N77(60M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH

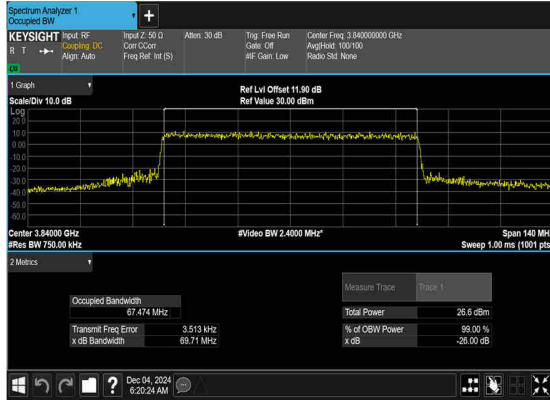


N77(60M)\_CP-OFDM\_256  
QAM\_Outer\_Full\_Mid\_CH





N77(70M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



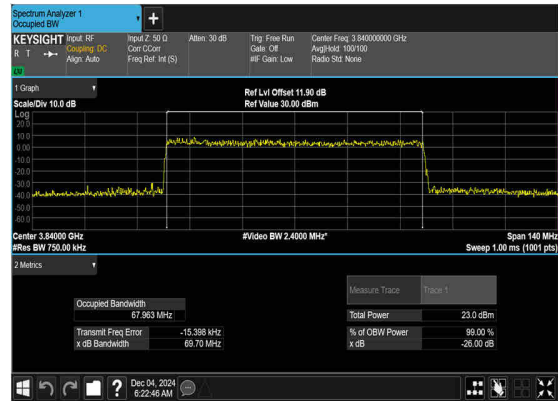
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QAM\_Outer\_Full\_Mid\_CH



N77(70M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH



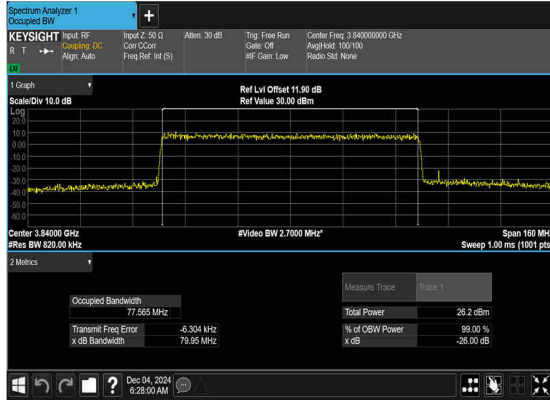
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QAM\_Outer\_Full\_Mid\_CH



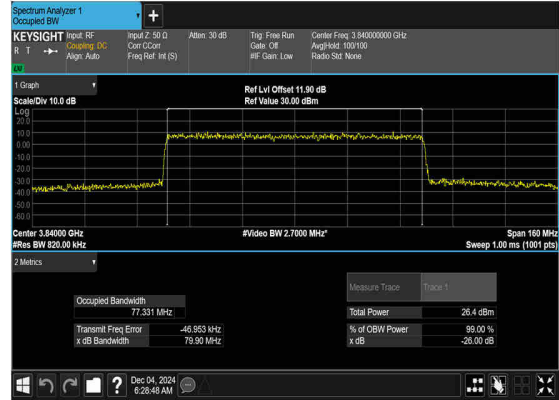




N77(80M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



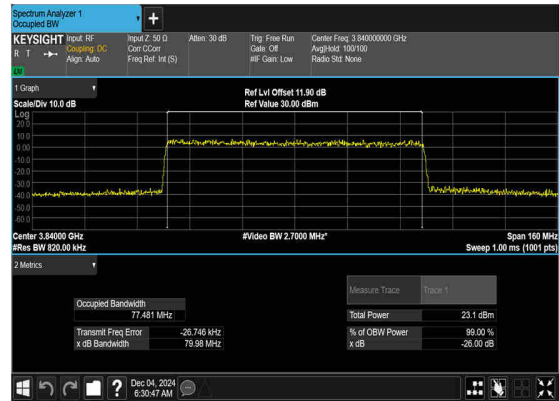
N77(80M)\_CP-OFDM\_16  
QAM\_Outer\_Full\_Mid\_CH



N77(80M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH



N77(80M)\_CP-OFDM\_256  
QAM\_Outer\_Full\_Mid\_CH







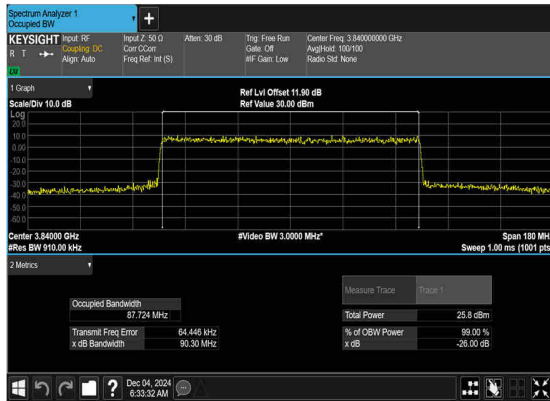
N77(90M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



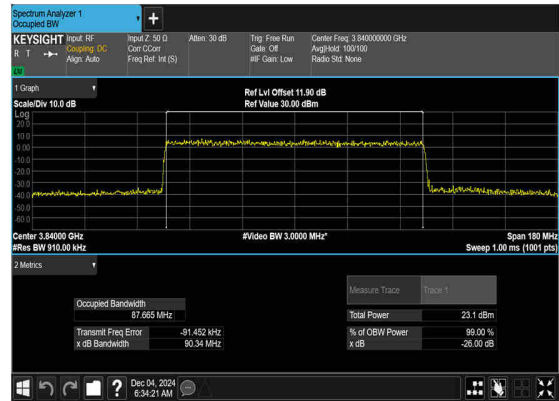
N77(90M)\_CP-OFDM\_16  
QAM\_Outer\_Full\_Mid\_CH



N77(90M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH

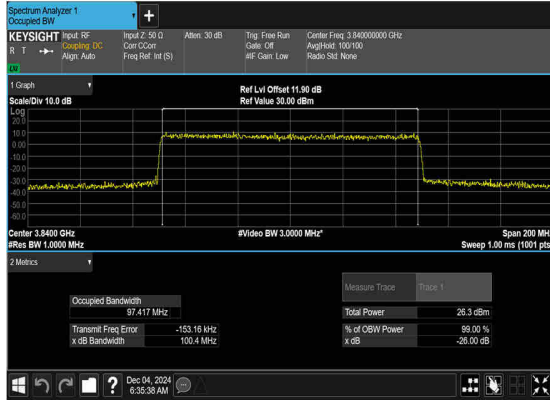


N77(90M)\_CP-OFDM\_256  
QAM\_Outer\_Full\_Mid\_CH

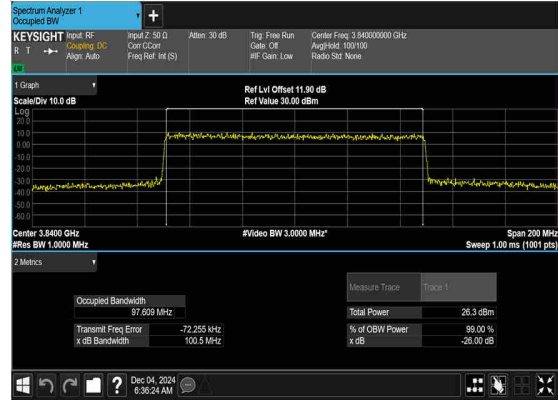




N77(100M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



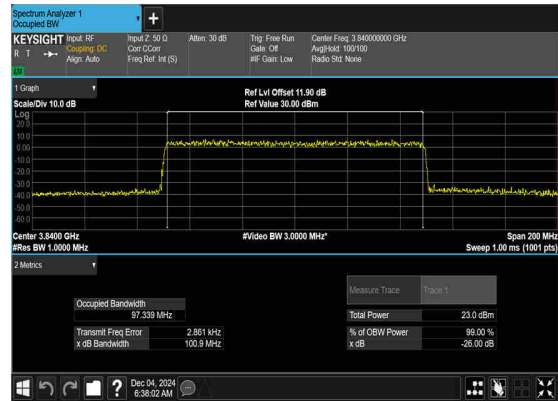
N77(100M)\_CP-OFDM\_16  
QAM\_Outer\_Full\_Mid\_CH



N77(100M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH



N77(100M)\_CP-OFDM\_256  
QAM\_Outer\_Full\_Mid\_CH



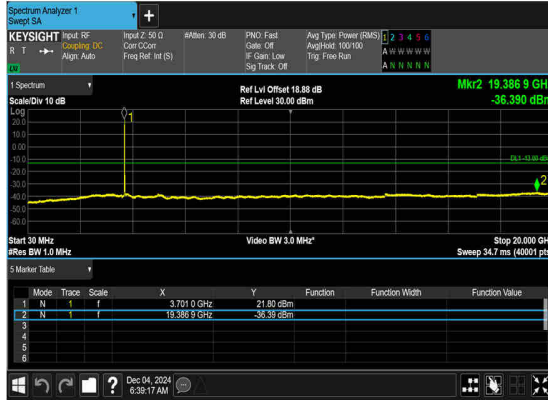


## Conducted Spurious Emissions

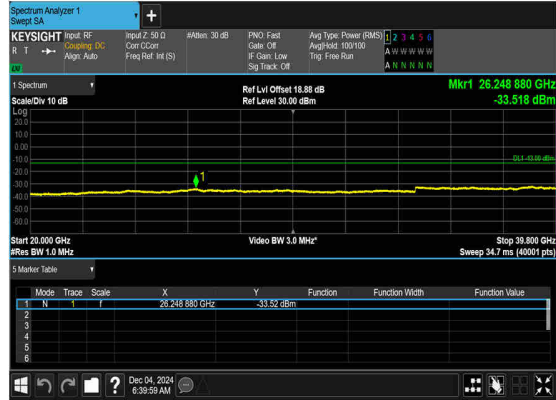
| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation   | RB  | Result    | Verdict     |
|---------|-----------|-----------------|--------|------------|--------------|-----|-----------|-------------|
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM QPSK | 1@0 | see graph | ---         |
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM QPSK | 1@0 | see graph | <b>PASS</b> |
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM QPSK | 1@0 | see graph | <b>PASS</b> |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 1@0 | see graph | ---         |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 1@0 | see graph | <b>PASS</b> |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 1@0 | see graph | <b>PASS</b> |
| 77      | 30        | 20              | 664666 | 3969.99    | CP-OFDM QPSK | 1@0 | see graph | ---         |
| 77      | 30        | 20              | 664666 | 3969.99    | CP-OFDM QPSK | 1@0 | see graph | <b>PASS</b> |
| 77      | 30        | 20              | 664666 | 3969.99    | CP-OFDM QPSK | 1@0 | see graph | <b>PASS</b> |
| 77      | 30        | 60              | 648668 | 3730.02    | CP-OFDM QPSK | 1@0 | see graph | ---         |
| 77      | 30        | 60              | 648668 | 3730.02    | CP-OFDM QPSK | 1@0 | see graph | <b>PASS</b> |
| 77      | 30        | 60              | 648668 | 3730.02    | CP-OFDM QPSK | 1@0 | see graph | <b>PASS</b> |
| 77      | 30        | 60              | 656000 | 3840.0     | CP-OFDM QPSK | 1@0 | see graph | ---         |
| 77      | 30        | 60              | 656000 | 3840.0     | CP-OFDM QPSK | 1@0 | see graph | <b>PASS</b> |
| 77      | 30        | 60              | 656000 | 3840.0     | CP-OFDM QPSK | 1@0 | see graph | <b>PASS</b> |
| 77      | 30        | 60              | 663332 | 3949.98    | CP-OFDM QPSK | 1@0 | see graph | ---         |
| 77      | 30        | 60              | 663332 | 3949.98    | CP-OFDM QPSK | 1@0 | see graph | <b>PASS</b> |
| 77      | 30        | 60              | 663332 | 3949.98    | CP-OFDM QPSK | 1@0 | see graph | <b>PASS</b> |
| 77      | 30        | 100             | 650000 | 3750.0     | CP-OFDM QPSK | 1@0 | see graph | ---         |
| 77      | 30        | 100             | 650000 | 3750.0     | CP-OFDM QPSK | 1@0 | see graph | <b>PASS</b> |
| 77      | 30        | 100             | 650000 | 3750.0     | CP-OFDM QPSK | 1@0 | see graph | <b>PASS</b> |
| 77      | 30        | 100             | 656000 | 3840.0     | CP-OFDM QPSK | 1@0 | see graph | ---         |
| 77      | 30        | 100             | 656000 | 3840.0     | CP-OFDM QPSK | 1@0 | see graph | <b>PASS</b> |
| 77      | 30        | 100             | 656000 | 3840.0     | CP-OFDM QPSK | 1@0 | see graph | <b>PASS</b> |
| 77      | 30        | 100             | 662000 | 3930.0     | CP-OFDM QPSK | 1@0 | see graph | ---         |
| 77      | 30        | 100             | 662000 | 3930.0     | CP-OFDM QPSK | 1@0 | see graph | <b>PASS</b> |
| 77      | 30        | 100             | 662000 | 3930.0     | CP-OFDM QPSK | 1@0 | see graph | <b>PASS</b> |



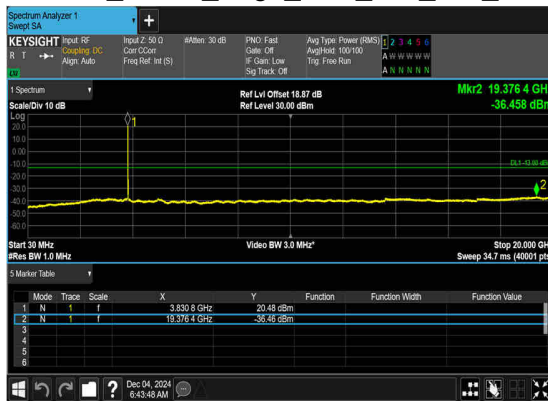
N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



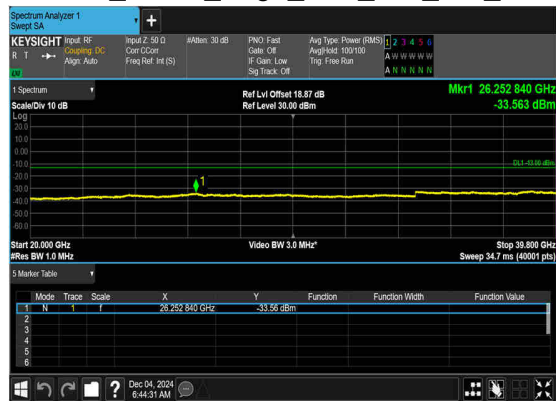
N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

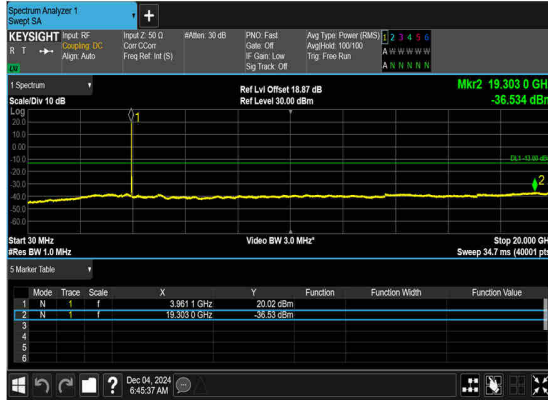


N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH

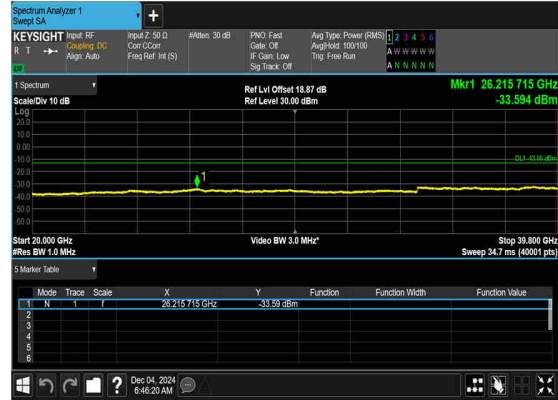




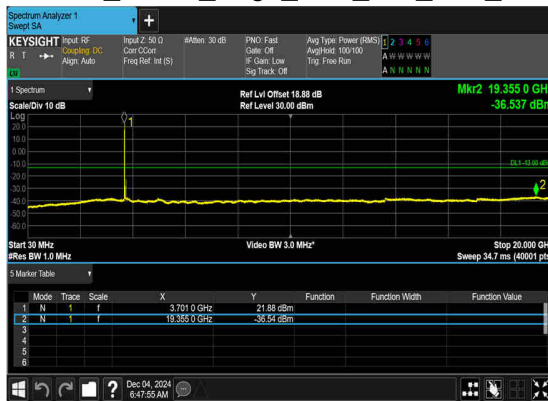
N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



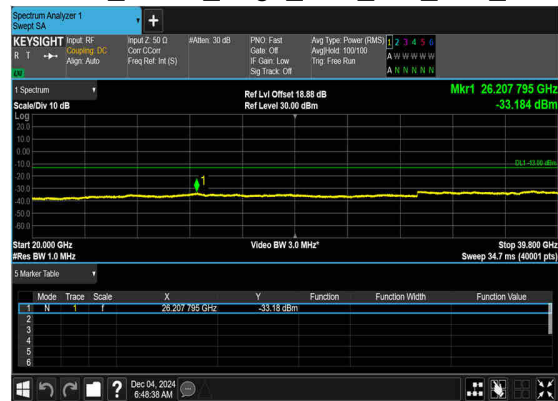
N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

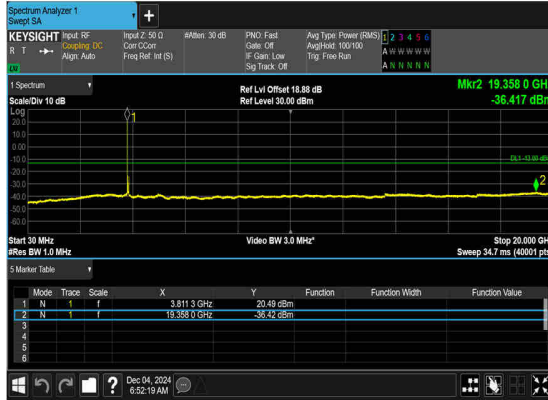


N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

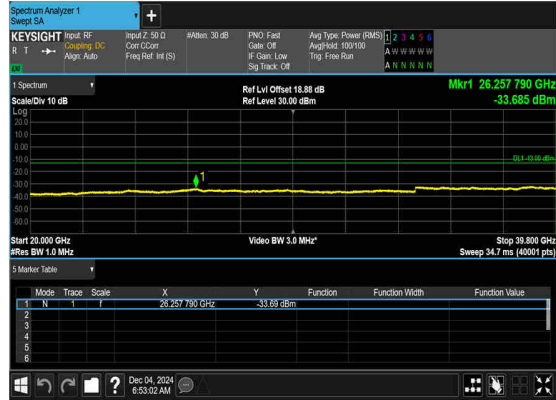




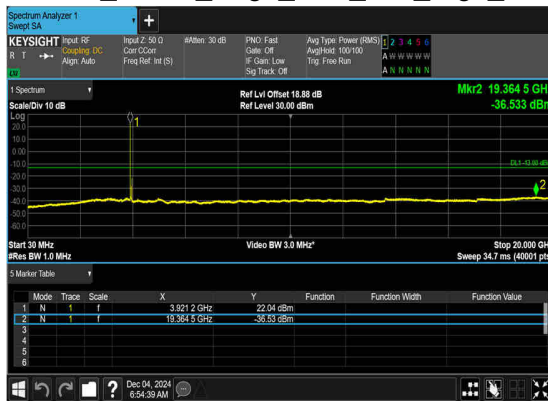
N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



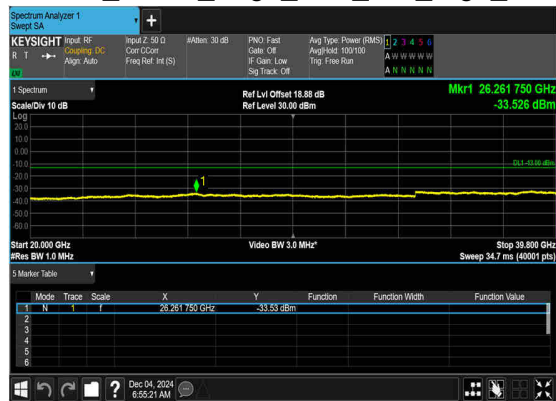
N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

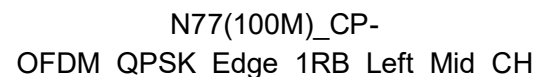
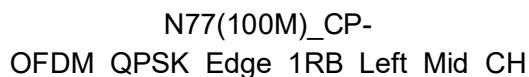
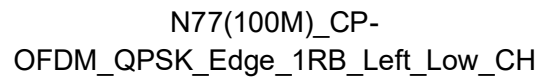


N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



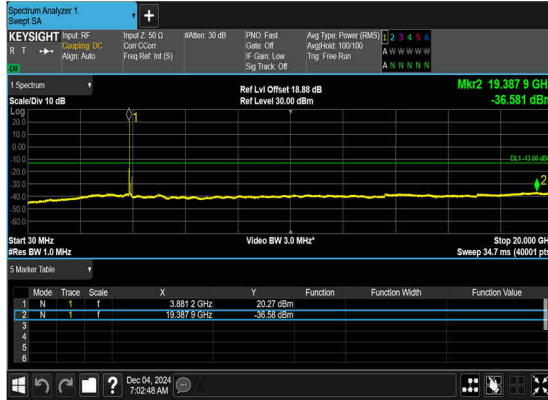


N77(100M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

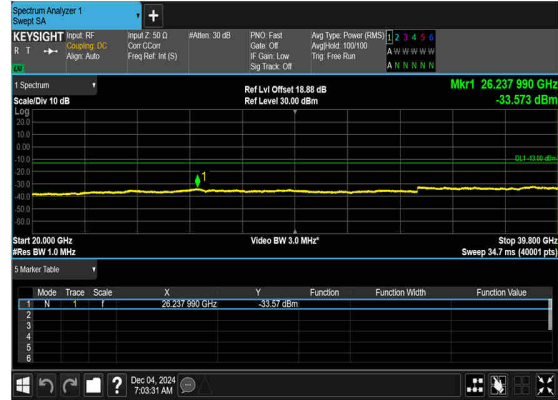




N77(100M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



N77(100M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH





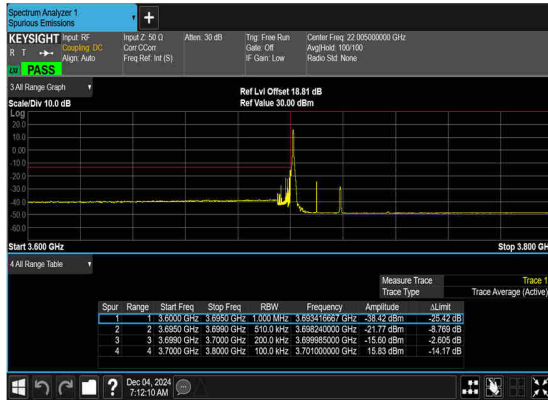


## Conducted Band Edge

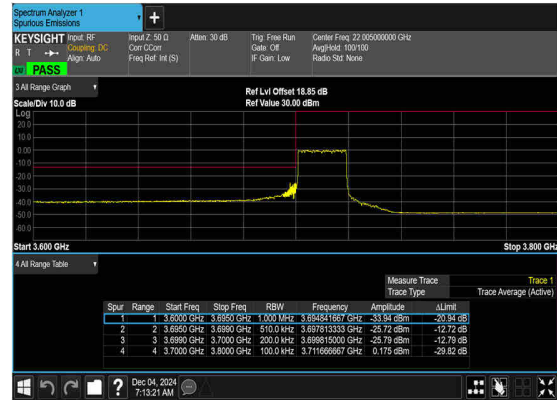
| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation   | RB    | Result    | Verdict     |
|---------|-----------|-----------------|--------|------------|--------------|-------|-----------|-------------|
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM QPSK | 1@0   | see graph | <b>PASS</b> |
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM QPSK | 51@0  | see graph | <b>PASS</b> |
| 77      | 30        | 20              | 664666 | 3969.99    | CP-OFDM QPSK | 1@50  | see graph | <b>PASS</b> |
| 77      | 30        | 20              | 664666 | 3969.99    | CP-OFDM QPSK | 51@0  | see graph | <b>PASS</b> |
| 77      | 30        | 60              | 648668 | 3730.02    | CP-OFDM QPSK | 1@0   | see graph | <b>PASS</b> |
| 77      | 30        | 60              | 648668 | 3730.02    | CP-OFDM QPSK | 162@0 | see graph | <b>PASS</b> |
| 77      | 30        | 60              | 663332 | 3949.98    | CP-OFDM QPSK | 1@161 | see graph | <b>PASS</b> |
| 77      | 30        | 60              | 663332 | 3949.98    | CP-OFDM QPSK | 162@0 | see graph | <b>PASS</b> |
| 77      | 30        | 100             | 650000 | 3750.0     | CP-OFDM QPSK | 1@0   | see graph | <b>PASS</b> |
| 77      | 30        | 100             | 650000 | 3750.0     | CP-OFDM QPSK | 273@0 | see graph | <b>PASS</b> |
| 77      | 30        | 100             | 662000 | 3930.0     | CP-OFDM QPSK | 1@272 | see graph | <b>PASS</b> |
| 77      | 30        | 100             | 662000 | 3930.0     | CP-OFDM QPSK | 273@0 | see graph | <b>PASS</b> |



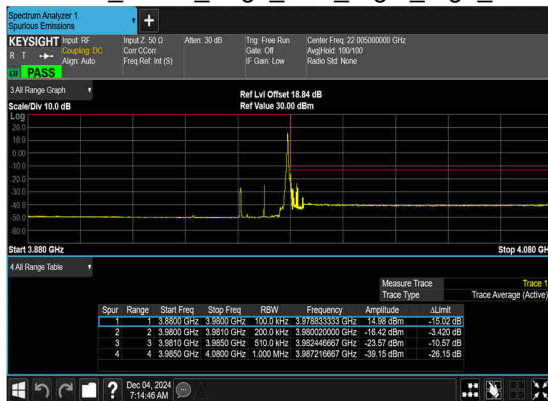
N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N77(20M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH



N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



N77(20M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_High\_CH

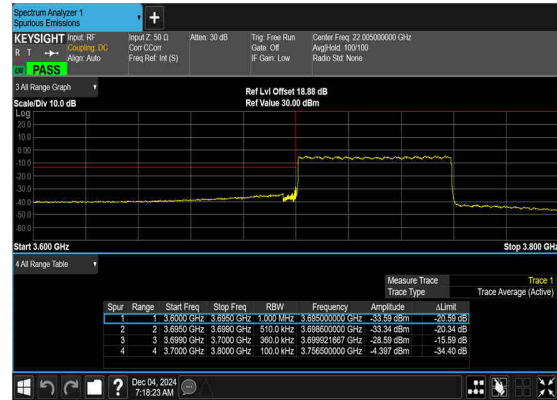




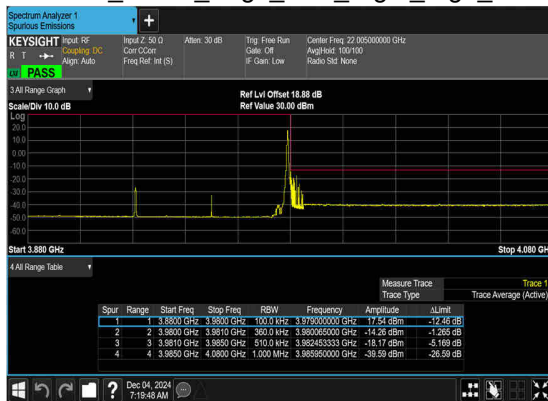
N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



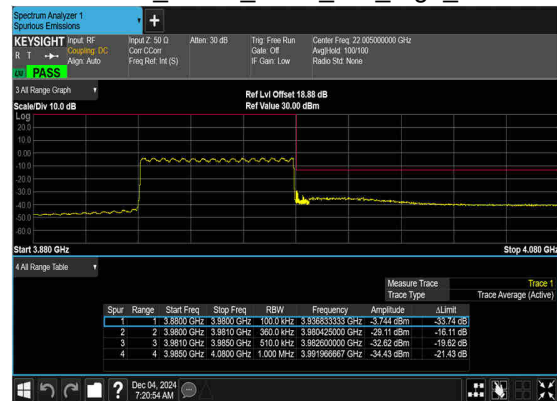
N77(60M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH



N77(60M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH

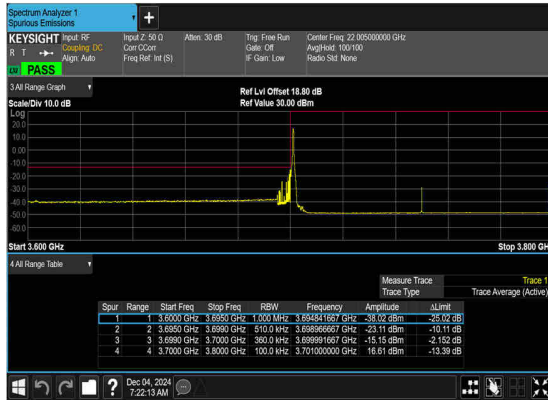


N77(60M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_High\_CH





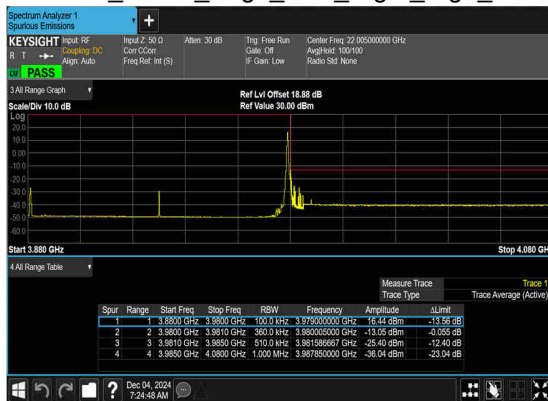
N77(100M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



N77(100M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH



N77(100M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



N77(100M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_High\_CH





## FR1 N77 MIMO-ANT(2+5)\_ANT5

### Frequency Stability

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation   | RB   | Deviation (Hz) | Verdict | Environment |
|---------|-----------|-----------------|--------|------------|--------------|------|----------------|---------|-------------|
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 11.7           | PASS    | NV          |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 12.9           | PASS    | LV          |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 12.3           | PASS    | HV          |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 13.3           | PASS    | -30°C       |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 18             | PASS    | -20°C       |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 11.3           | PASS    | -10°C       |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 15.2           | PASS    | 0°C         |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 11.7           | PASS    | 10°C        |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 10.7           | PASS    | 20°C        |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 12.1           | PASS    | 30°C        |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 11.8           | PASS    | 40°C        |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 11.1           | PASS    | 50°C        |

$|\text{MAX}(\Delta f)| = 18 \text{ Hz}$

| Frequency Stability            | Frequency (MHz) | Limit Line              | Result |
|--------------------------------|-----------------|-------------------------|--------|
| $f_L -  \text{MAX}(\Delta f) $ | 3700.6655282    | $\geq 3700 \text{ MHz}$ | PASS   |
| $f_H +  \text{MAX}(\Delta f) $ | 3979.1467718    | $\leq 3980 \text{ MHz}$ |        |



## Peak to Average Ratio

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation   | RB   | Result (dB) | Limit (dB) | Verdict |
|---------|-----------|-----------------|--------|------------|--------------|------|-------------|------------|---------|
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 7.24        | 13         | PASS    |

### N77(20M)\_CP-OFDM\_QPSK\_Outer\_Full\_Mid\_CH





## Occupied Bandwidth

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation      | RB    | OBW (MHz) | 26dB BW (MHz) |
|---------|-----------|-----------------|--------|------------|-----------------|-------|-----------|---------------|
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK    | 51@0  | 18.243    | 19.38         |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 51@0  | 18.181    | 19.22         |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 51@0  | 18.248    | 20.31         |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM 256 QAM | 51@0  | 18.165    | 19.43         |
| 77      | 30        | 30              | 656000 | 3840.0     | CP-OFDM QPSK    | 78@0  | 27.873    | 29.11         |
| 77      | 30        | 30              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 78@0  | 27.916    | 29.23         |
| 77      | 30        | 30              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 78@0  | 27.818    | 29.12         |
| 77      | 30        | 30              | 656000 | 3840.0     | CP-OFDM 256 QAM | 78@0  | 27.813    | 30.33         |
| 77      | 30        | 40              | 656000 | 3840.0     | CP-OFDM QPSK    | 106@0 | 37.802    | 40.49         |
| 77      | 30        | 40              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 106@0 | 37.957    | 39.56         |
| 77      | 30        | 40              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 106@0 | 37.797    | 39.47         |
| 77      | 30        | 40              | 656000 | 3840.0     | CP-OFDM 256 QAM | 106@0 | 37.915    | 39.51         |
| 77      | 30        | 50              | 656000 | 3840.0     | CP-OFDM QPSK    | 133@0 | 47.462    | 49.14         |
| 77      | 30        | 50              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 133@0 | 47.515    | 49.34         |
| 77      | 30        | 50              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 133@0 | 47.519    | 49.01         |
| 77      | 30        | 50              | 656000 | 3840.0     | CP-OFDM 256 QAM | 133@0 | 47.534    | 49.2          |
| 77      | 30        | 60              | 656000 | 3840.0     | CP-OFDM QPSK    | 162@0 | 57.755    | 59.81         |
| 77      | 30        | 60              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 162@0 | 58.03     | 59.87         |
| 77      | 30        | 60              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 162@0 | 57.907    | 60.01         |
| 77      | 30        | 60              | 656000 | 3840.0     | CP-OFDM 256 QAM | 162@0 | 58.036    | 59.7          |
| 77      | 30        | 70              | 656000 | 3840.0     | CP-OFDM QPSK    | 189@0 | 67.558    | 69.68         |
| 77      | 30        | 70              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 189@0 | 67.442    | 69.97         |
| 77      | 30        | 70              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 189@0 | 67.455    | 69.73         |
| 77      | 30        | 70              | 656000 | 3840.0     | CP-OFDM 256 QAM | 189@0 | 67.601    | 69.8          |
| 77      | 30        | 80              | 656000 | 3840.0     | CP-OFDM QPSK    | 217@0 | 77.635    | 79.95         |
| 77      | 30        | 80              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 217@0 | 77.464    | 80.18         |
| 77      | 30        | 80              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 217@0 | 77.609    | 79.94         |
| 77      | 30        | 80              | 656000 | 3840.0     | CP-OFDM 256 QAM | 217@0 | 77.377    | 79.93         |
| 77      | 30        | 90              | 656000 | 3840.0     | CP-OFDM QPSK    | 245@0 | 87.563    | 90.25         |
| 77      | 30        | 90              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 245@0 | 87.526    | 90.27         |
| 77      | 30        | 90              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 245@0 | 87.572    | 90.24         |
| 77      | 30        | 90              | 656000 | 3840.0     | CP-OFDM 256 QAM | 245@0 | 87.483    | 90.18         |
| 77      | 30        | 100             | 656000 | 3840.0     | CP-OFDM QPSK    | 273@0 | 97.418    | 100.5         |
| 77      | 30        | 100             | 656000 | 3840.0     | CP-OFDM 16 QAM  | 273@0 | 97.517    | 100.5         |
| 77      | 30        | 100             | 656000 | 3840.0     | CP-OFDM 64 QAM  | 273@0 | 97.407    | 100.4         |
| 77      | 30        | 100             | 656000 | 3840.0     | CP-OFDM 256 QAM | 273@0 | 97.402    | 100.6         |



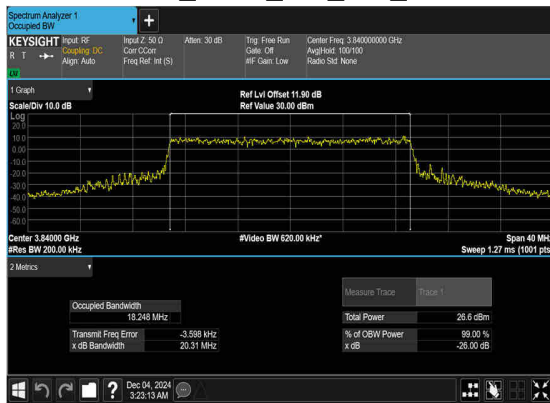
N77(20M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



N77(20M)\_CP-OFDM\_16  
QAM\_Outer\_Full\_Mid\_CH



N77(20M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH



N77(20M)\_CP-OFDM\_256  
QAM\_Outer\_Full\_Mid\_CH







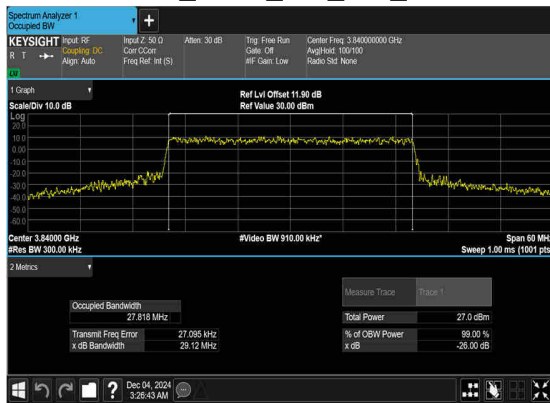
N77(30M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



N77(30M)\_CP-OFDM\_16  
QAM\_Outer\_Full\_Mid\_CH



N77(30M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH



N77(30M)\_CP-OFDM\_256  
QAM\_Outer\_Full\_Mid\_CH





N77(40M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



N77(40M)\_CP-OFDM\_16  
QAM\_Outer\_Full\_Mid\_CH



N77(40M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH



N77(40M)\_CP-OFDM\_256  
QAM\_Outer\_Full\_Mid\_CH

