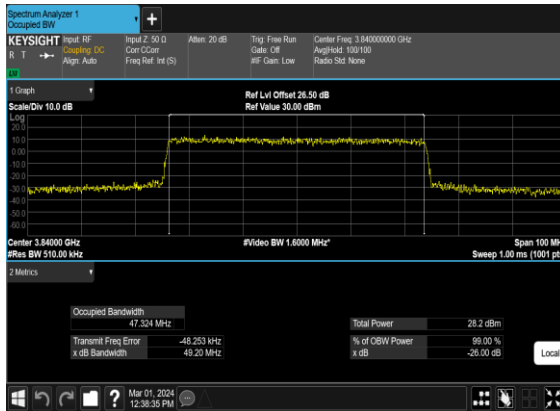
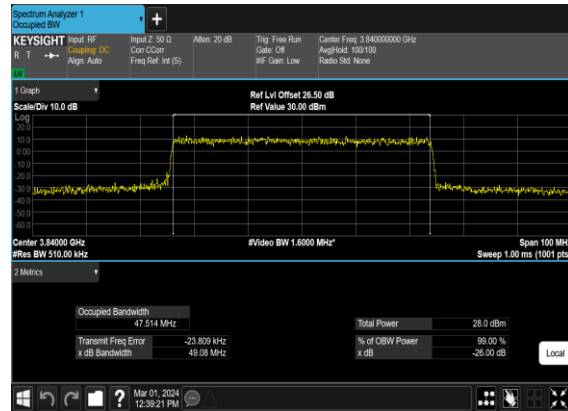


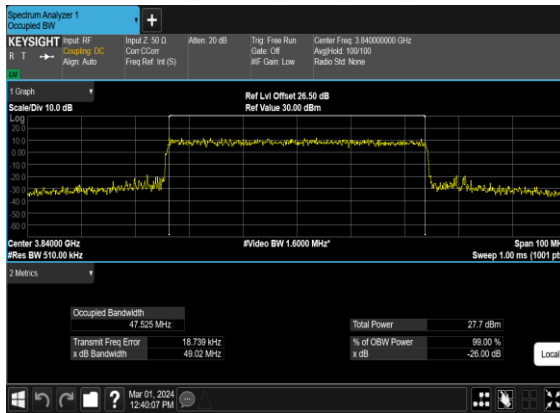
B13\_N77(50M)\_CP-  
OFDM\_QPSK\_Outer\_Full\_Mid\_CH



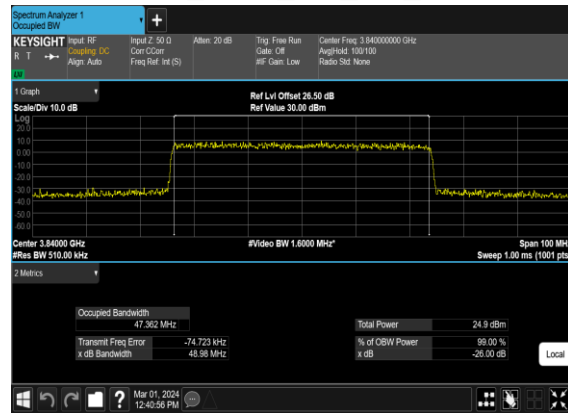
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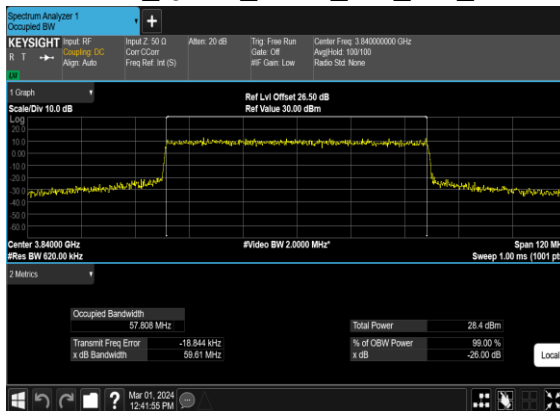
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QAM\_Outer\_Full\_Mid\_CH



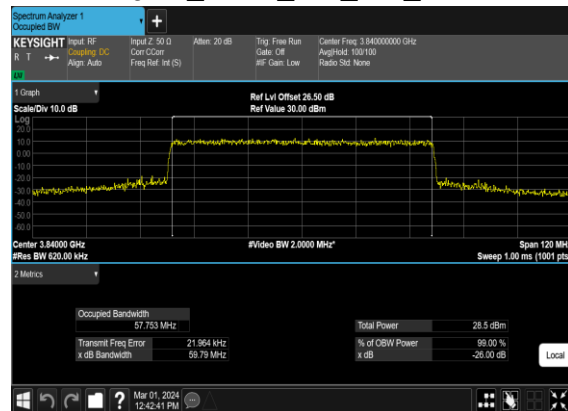
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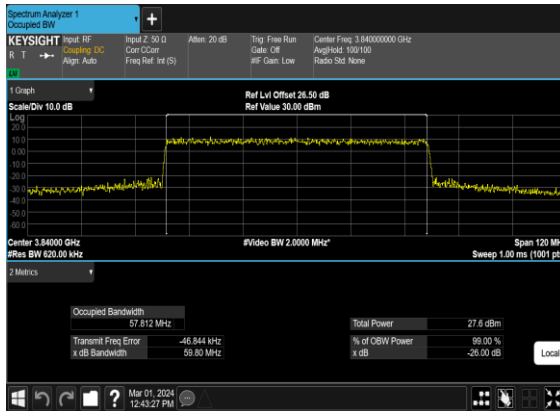
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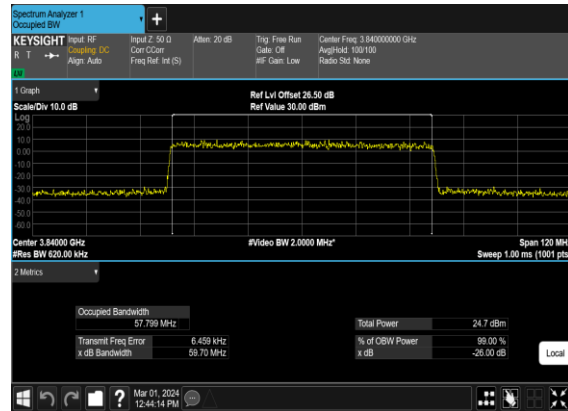
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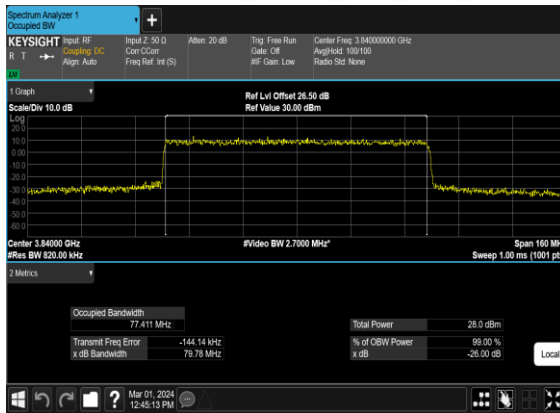
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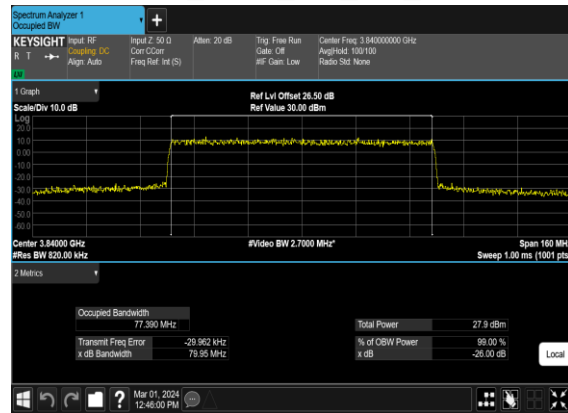
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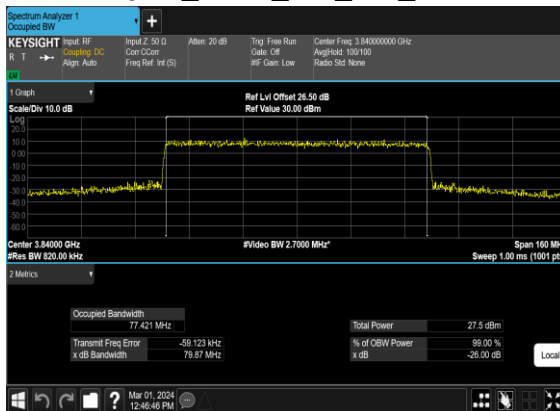
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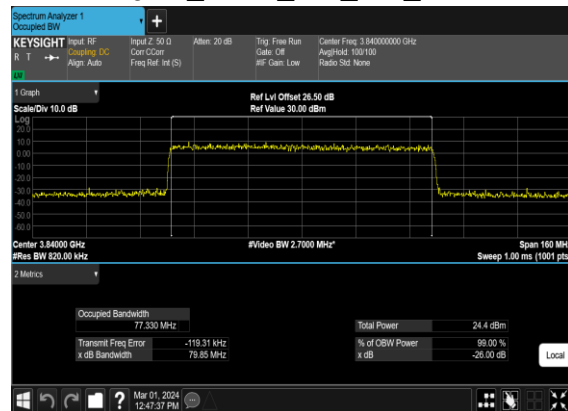
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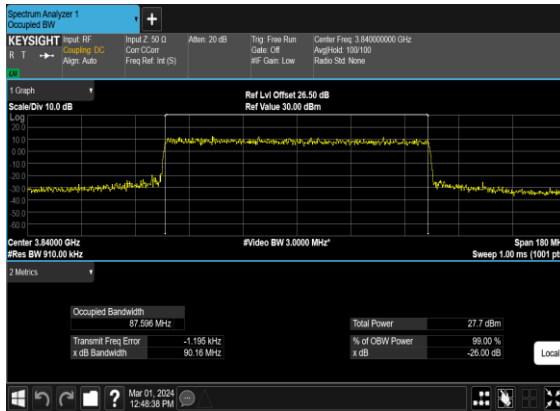
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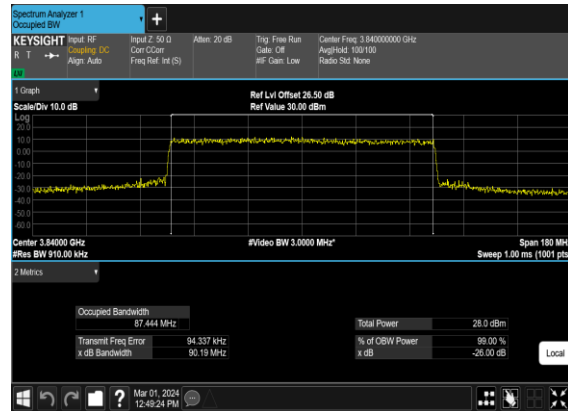
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QAM\_Outer\_Full\_Mid\_CH



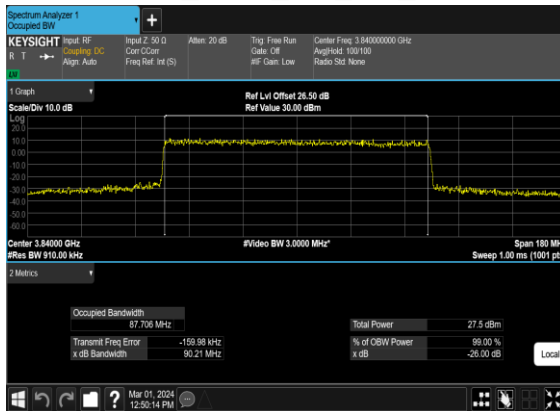
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OFDM\_QPSK\_Outer\_Full\_Mid\_CH



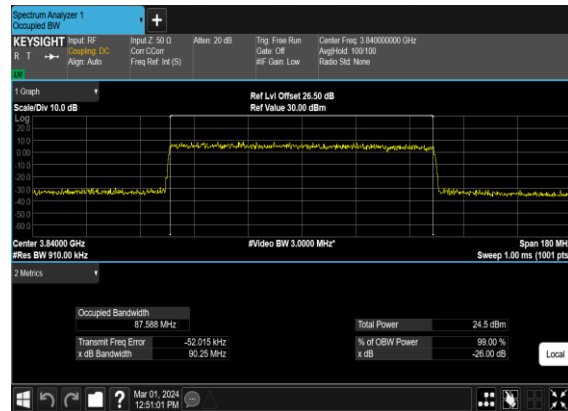
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QAM\_Outer\_Full\_Mid\_CH



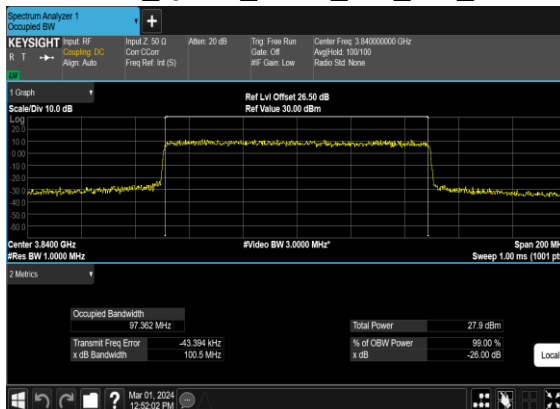
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QAM\_Outer\_Full\_Mid\_CH



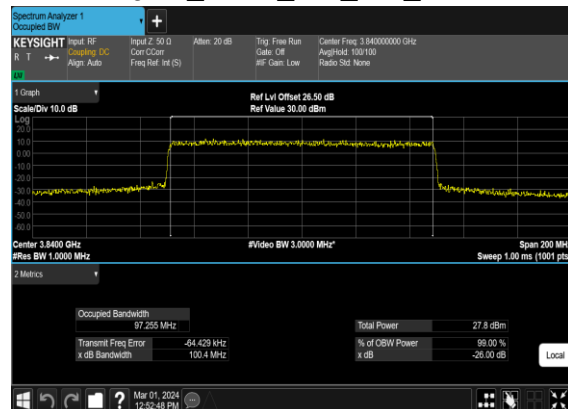
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QAM\_Outer\_Full\_Mid\_CH



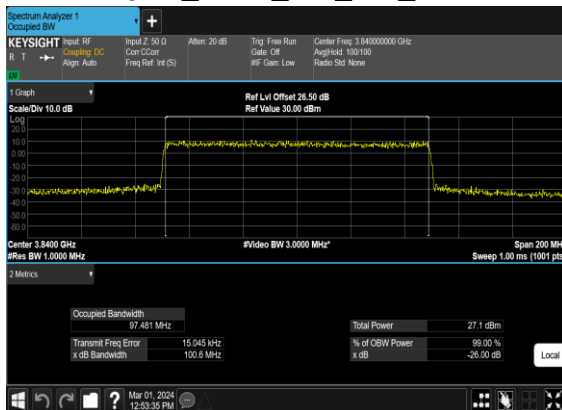
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OFDM\_QPSK\_Outer\_Full\_Mid\_CH



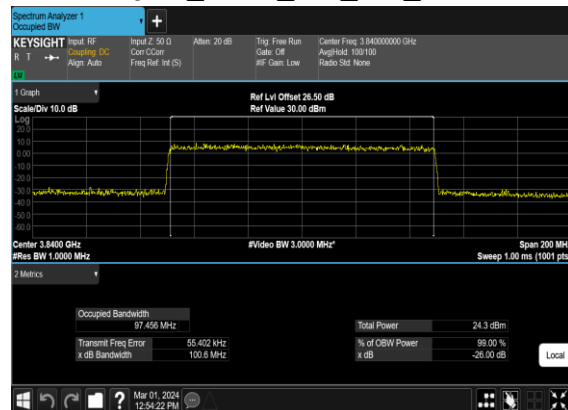
B13\_N77(100M)\_CP-OFDM\_16  
QAM\_Outer\_Full\_Mid\_CH



B13\_N77(100M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH



B13\_N77(100M)\_CP-OFDM\_256  
QAM\_Outer\_Full\_Mid\_CH

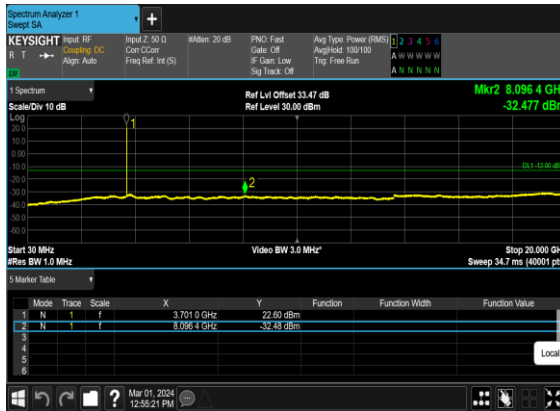


## Conducted Spurious Emissions

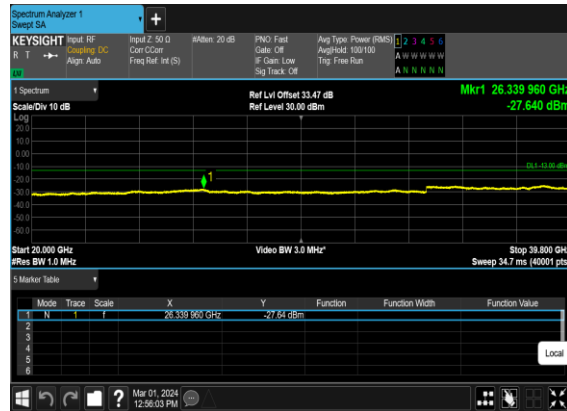
| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation      | RB  | Result    | Verdict |
|---------|-----------|-----------------|--------|------------|-----------------|-----|-----------|---------|
| 77      | 30        | 20              | 647334 | 3710.01    | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 77      | 30        | 20              | 647334 | 3710.01    | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 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 | ---     |
| 77      | 30        | 20              | 647334 | 3710.01    | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 77      | 30        | 20              | 647334 | 3710.01    | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 77      | 30        | 20              | 656000 | 3840.0     | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 77      | 30        | 20              | 656000 | 3840.0     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 77      | 30        | 20              | 656000 | 3840.0     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 77      | 30        | 20              | 656000 | 3840.0     | DFT-s-OFDM QPSK | 1@0 | see graph | ---     |
| 77      | 30        | 20              | 656000 | 3840.0     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 77      | 30        | 20              | 656000 | 3840.0     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 77      | 30        | 20              | 664666 | 3969.99    | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 77      | 30        | 20              | 664666 | 3969.99    | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 77      | 30        | 20              | 664666 | 3969.99    | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 77      | 30        | 20              | 664666 | 3969.99    | DFT-s-OFDM QPSK | 1@0 | see graph | ---     |
| 77      | 30        | 20              | 664666 | 3969.99    | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 77      | 30        | 20              | 664666 | 3969.99    | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 77      | 30        | 60              | 648668 | 3730.02    | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 77      | 30        | 60              | 648668 | 3730.02    | DFT-s-OFDM BPSK | 1@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 | ---     |
| 77      | 30        | 60              | 648668 | 3730.02    | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 77      | 30        | 60              | 648668 | 3730.02    | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 77      | 30        | 60              | 656000 | 3840.0     | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 77      | 30        | 60              | 656000 | 3840.0     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 77      | 30        | 60              | 656000 | 3840.0     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 77      | 30        | 60              | 656000 | 3840.0     | DFT-s-OFDM QPSK | 1@0 | see graph | ---     |
| 77      | 30        | 60              | 656000 | 3840.0     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 77      | 30        | 60              | 656000 | 3840.0     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 77      | 30        | 60              | 663332 | 3949.98    | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 77      | 30        | 60              | 663332 | 3949.98    | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 77      | 30        | 60              | 663332 | 3949.98    | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 77      | 30        | 60              | 663332 | 3949.98    | DFT-s-OFDM QPSK | 1@0 | see graph | ---     |
| 77      | 30        | 60              | 663332 | 3949.98    | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |

|    |    |     |        |         |                    |     |           |      |
|----|----|-----|--------|---------|--------------------|-----|-----------|------|
| 77 | 30 | 60  | 663332 | 3949.98 | DFT-s-OFDM<br>QPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 650000 | 3750.0  | DFT-s-OFDM<br>BPSK | 1@0 | see graph | ---  |
| 77 | 30 | 100 | 650000 | 3750.0  | DFT-s-OFDM<br>BPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 650000 | 3750.0  | DFT-s-OFDM<br>BPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 650000 | 3750.0  | DFT-s-OFDM<br>QPSK | 1@0 | see graph | ---  |
| 77 | 30 | 100 | 650000 | 3750.0  | DFT-s-OFDM<br>QPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 650000 | 3750.0  | DFT-s-OFDM<br>QPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 656000 | 3840.0  | DFT-s-OFDM<br>BPSK | 1@0 | see graph | ---  |
| 77 | 30 | 100 | 656000 | 3840.0  | DFT-s-OFDM<br>BPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 656000 | 3840.0  | DFT-s-OFDM<br>BPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 656000 | 3840.0  | DFT-s-OFDM<br>QPSK | 1@0 | see graph | ---  |
| 77 | 30 | 100 | 656000 | 3840.0  | DFT-s-OFDM<br>QPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 656000 | 3840.0  | DFT-s-OFDM<br>QPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 662000 | 3930.0  | DFT-s-OFDM<br>BPSK | 1@0 | see graph | ---  |
| 77 | 30 | 100 | 662000 | 3930.0  | DFT-s-OFDM<br>BPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 662000 | 3930.0  | DFT-s-OFDM<br>BPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 662000 | 3930.0  | DFT-s-OFDM<br>QPSK | 1@0 | see graph | ---  |
| 77 | 30 | 100 | 662000 | 3930.0  | DFT-s-OFDM<br>QPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 662000 | 3930.0  | DFT-s-OFDM<br>QPSK | 1@0 | see graph | PASS |

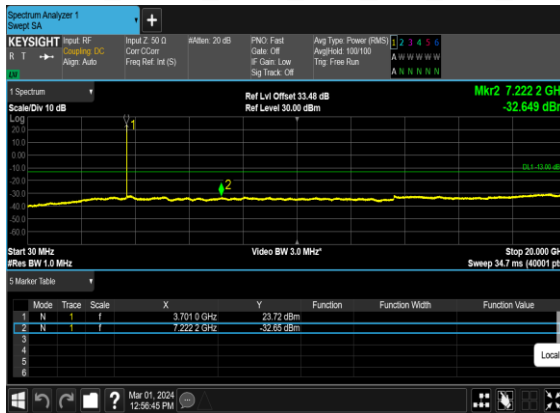
B13\_N77(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



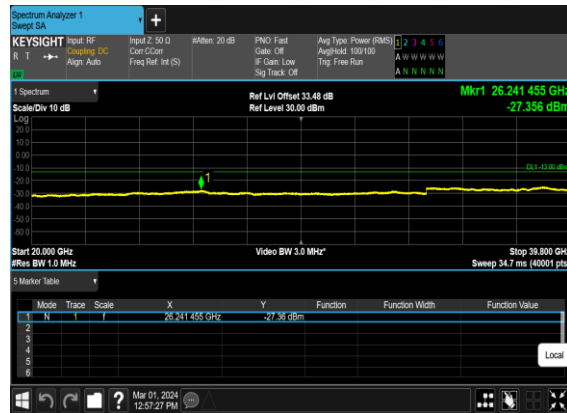
B13\_N77(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



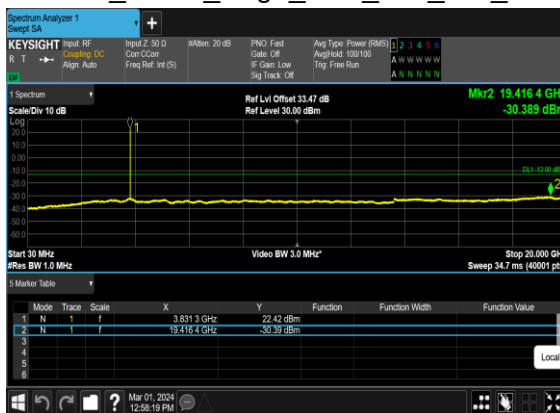
B13\_N77(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



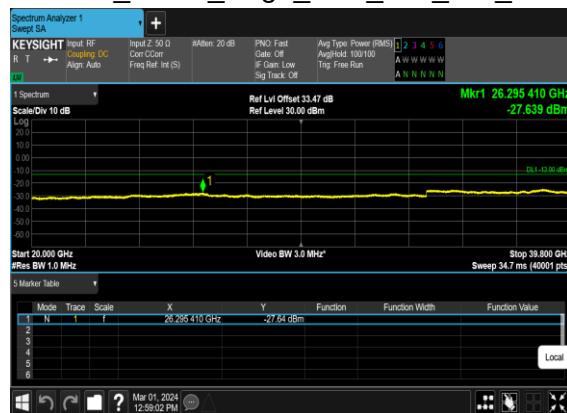
B13\_N77(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



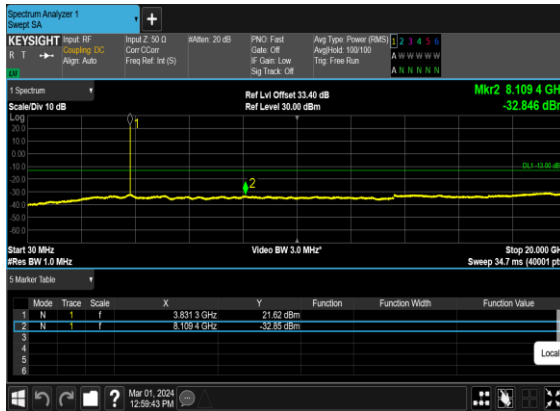
B13\_N77(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



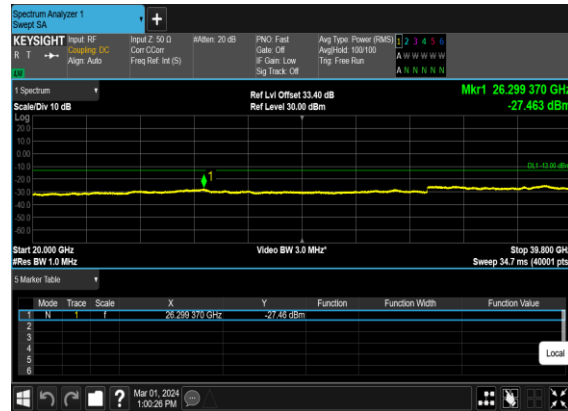
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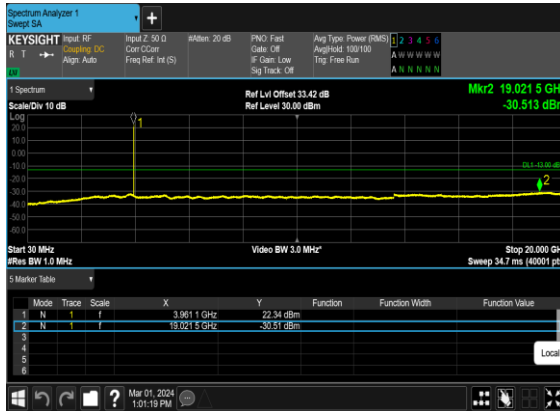
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OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



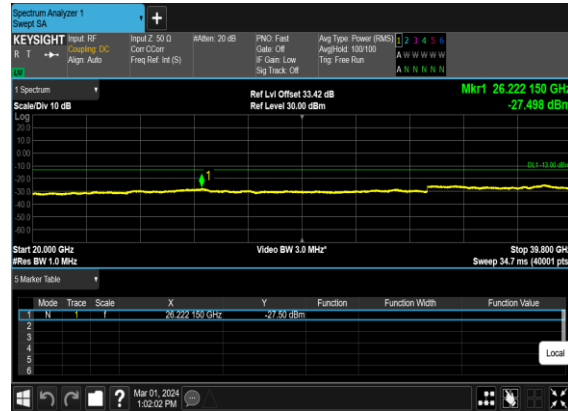
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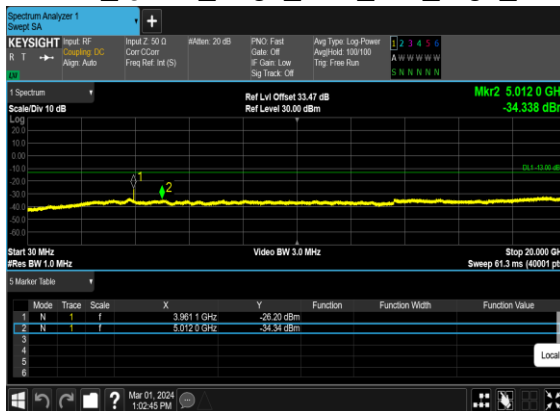
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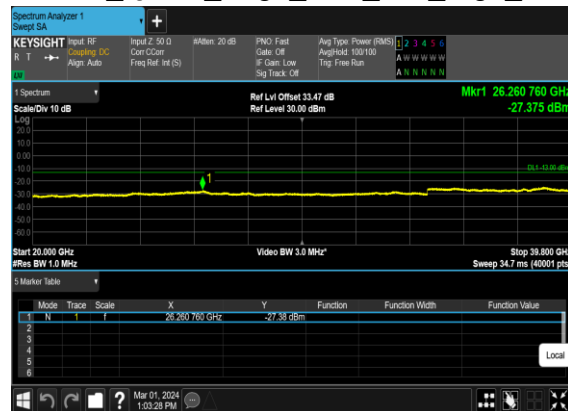
B13\_N77(20M)\_DFT-s-  
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B13\_N77(20M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

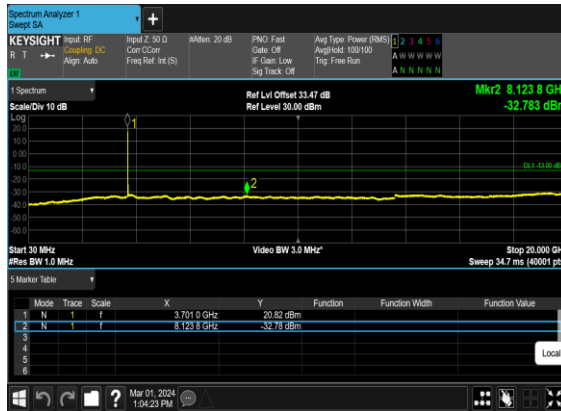


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OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH

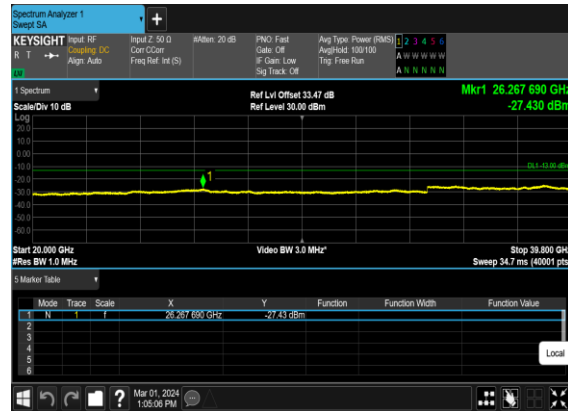




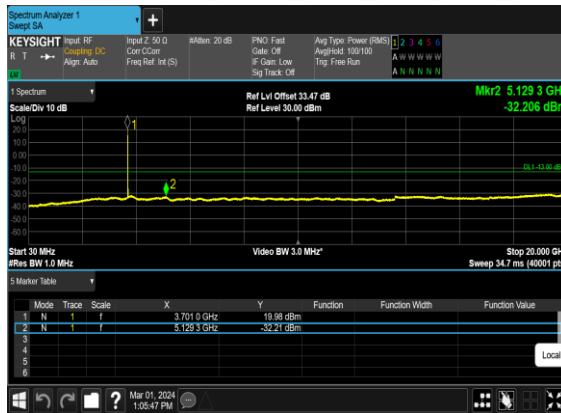
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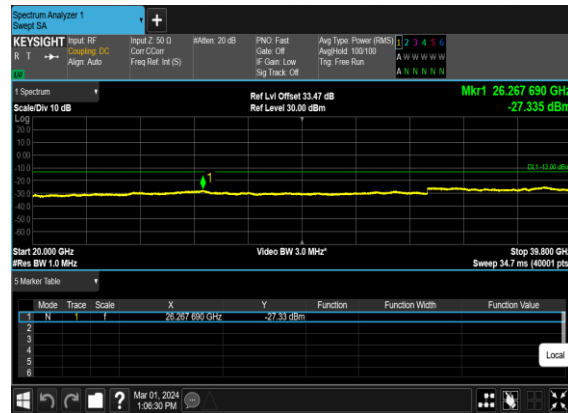
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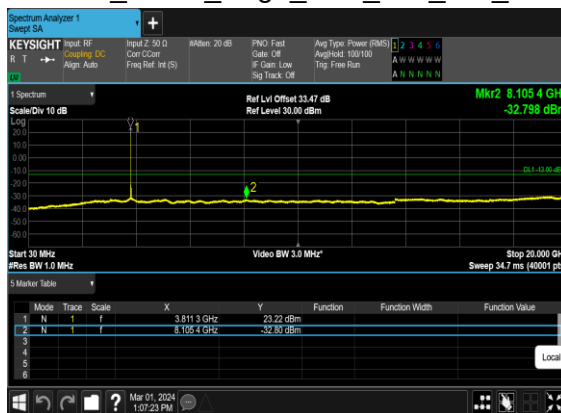
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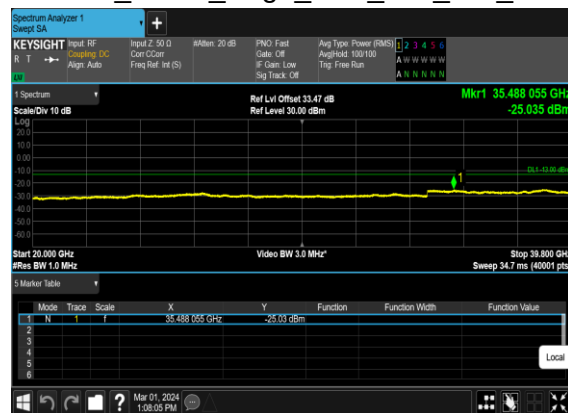
B13\_N77(60M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



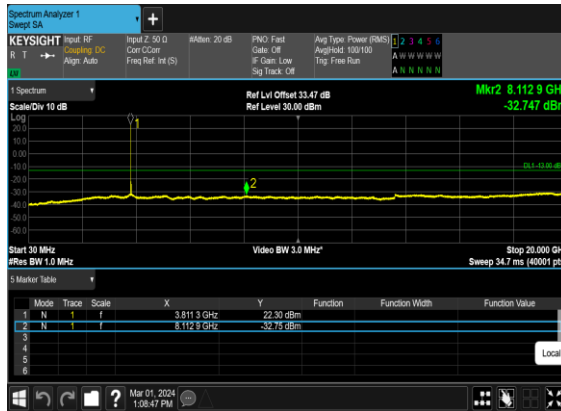
B13\_N77(60M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



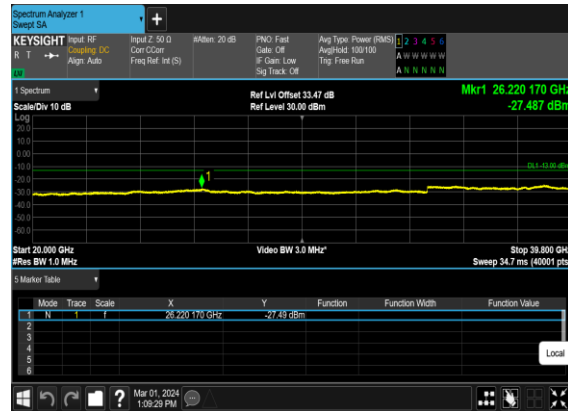
B13\_N77(60M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



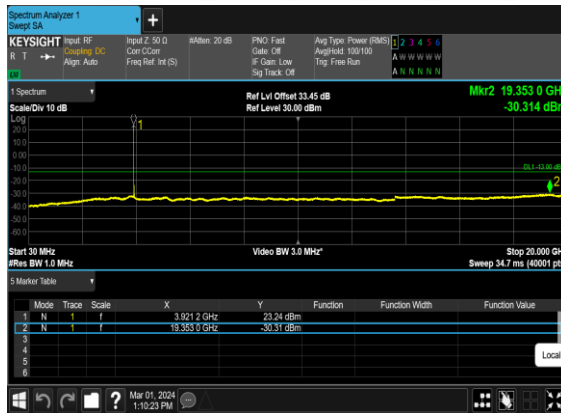
B13\_N77(60M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



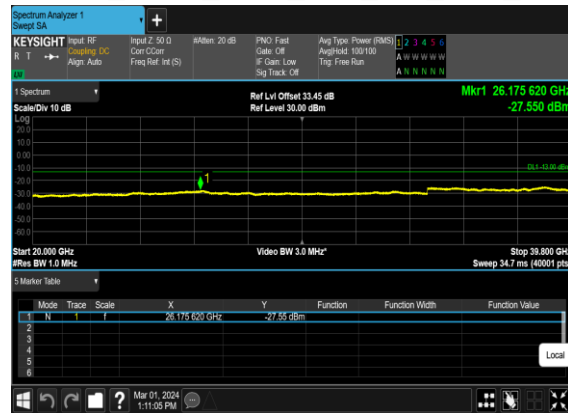
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OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



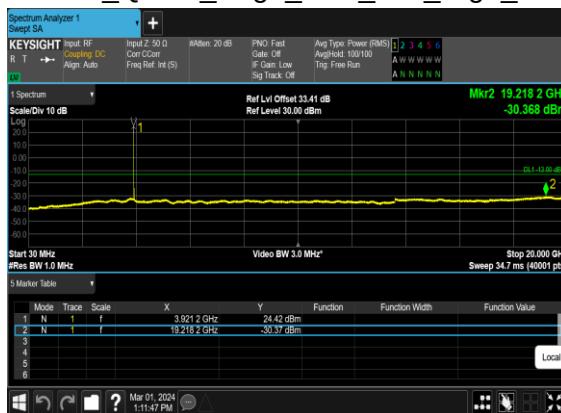
B13\_N77(60M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



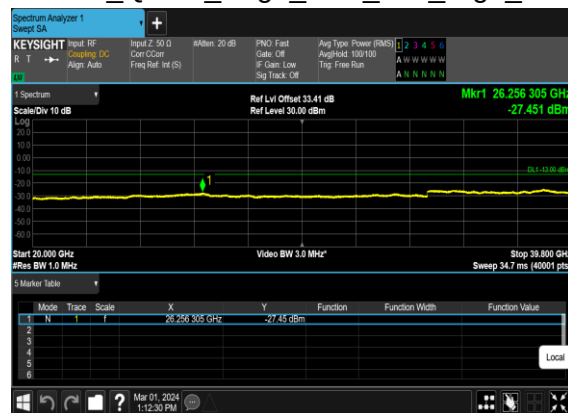
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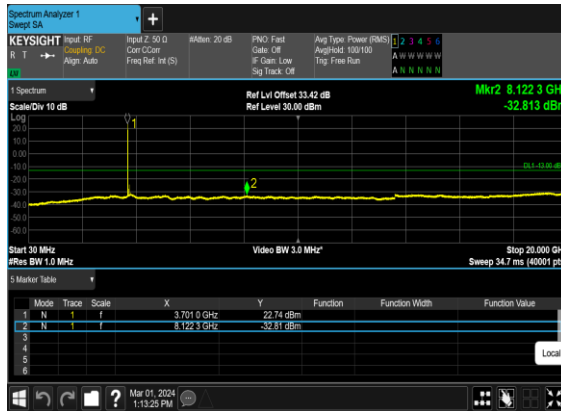
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OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



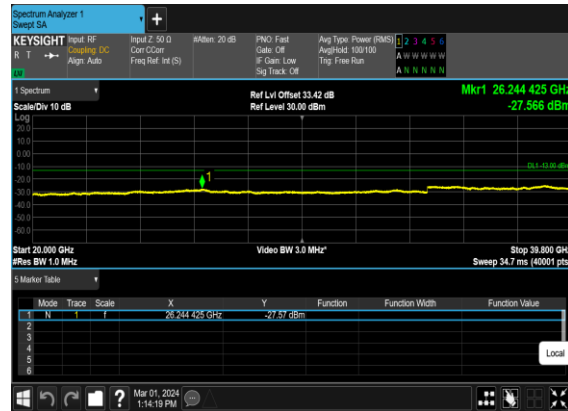
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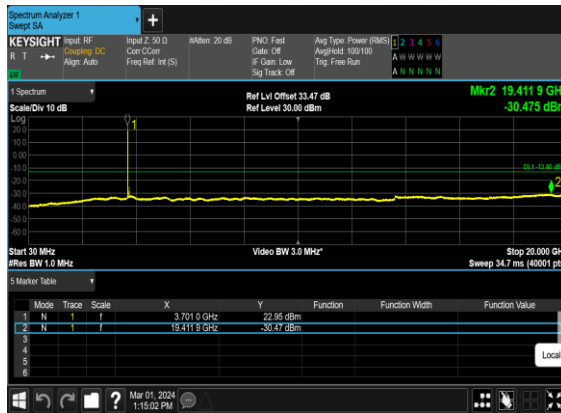
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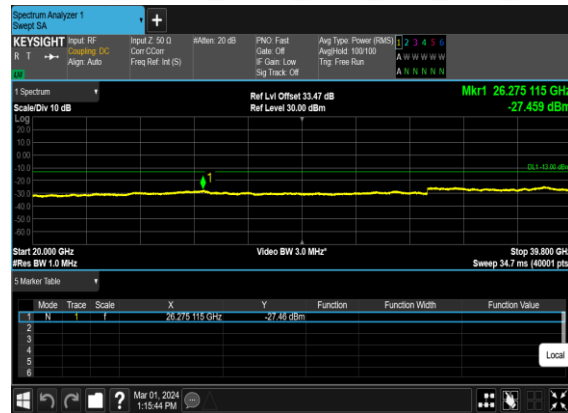
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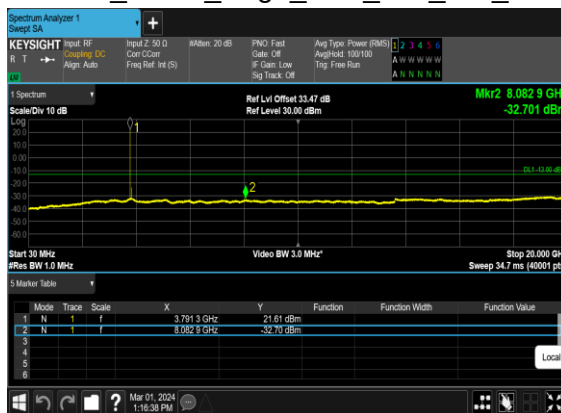
B13\_N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



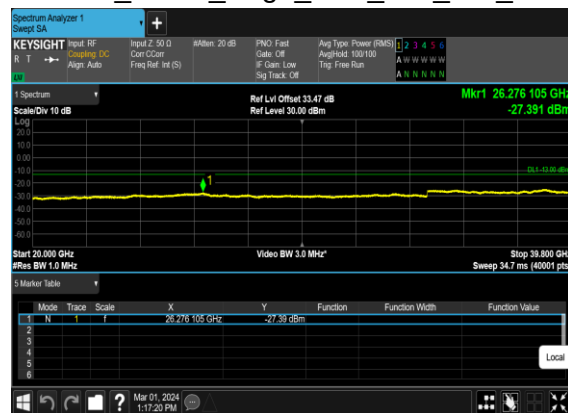
B13\_N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



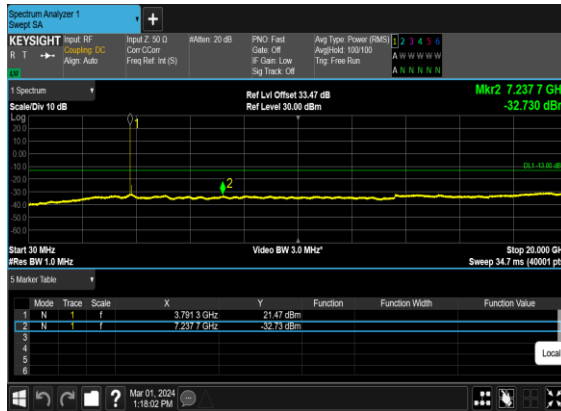
B13\_N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



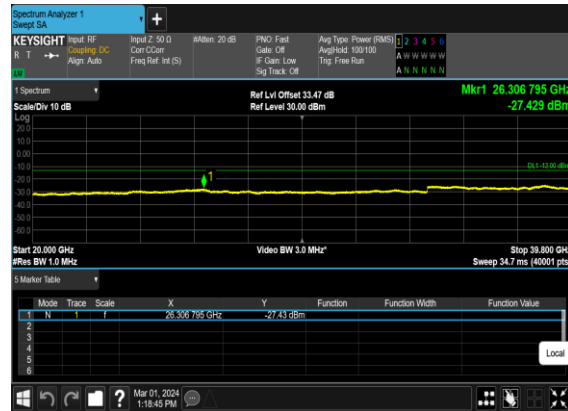
B13\_N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



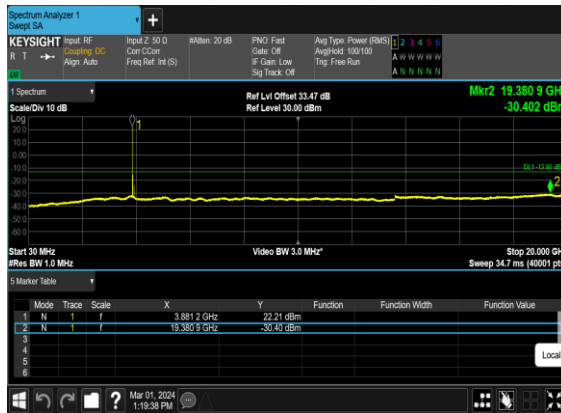
B13\_N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



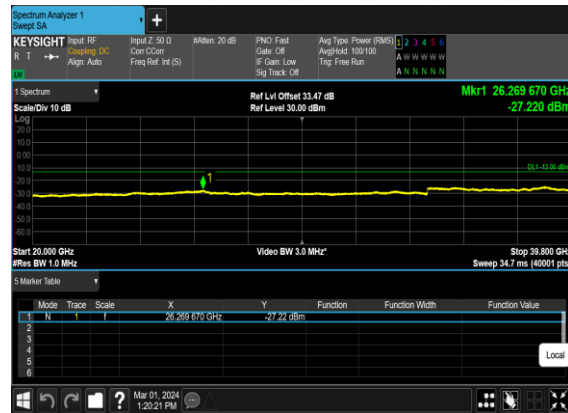
B13\_N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



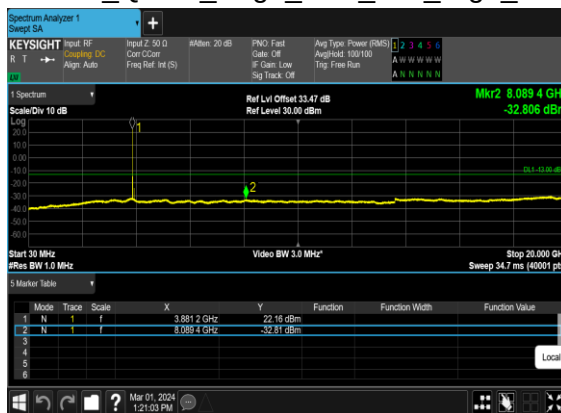
B13\_N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



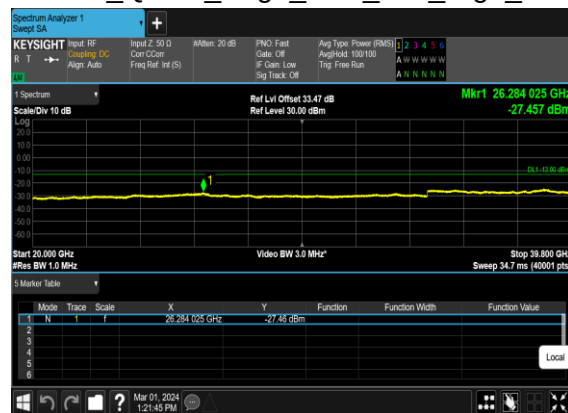
B13\_N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



B13\_N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



B13\_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    |

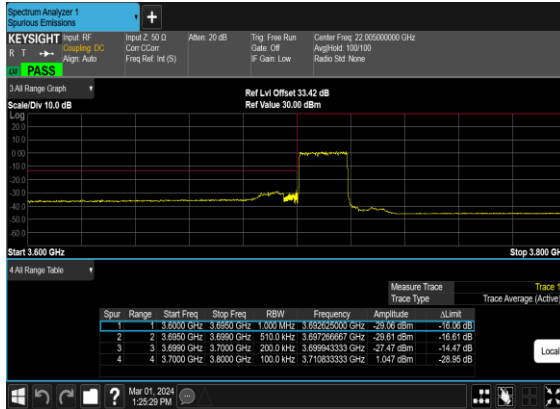
B13\_N77(20M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



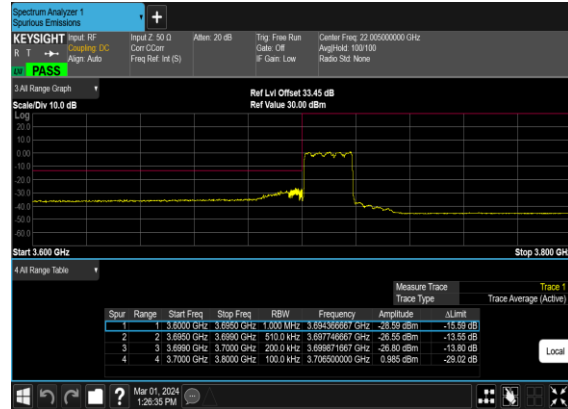
B13\_N77(20M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



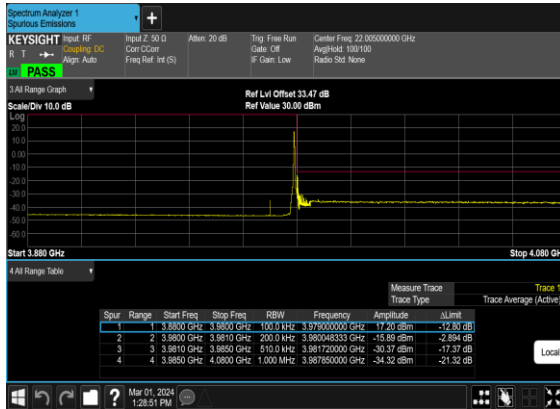
B13\_N77(20M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_Low\_CH



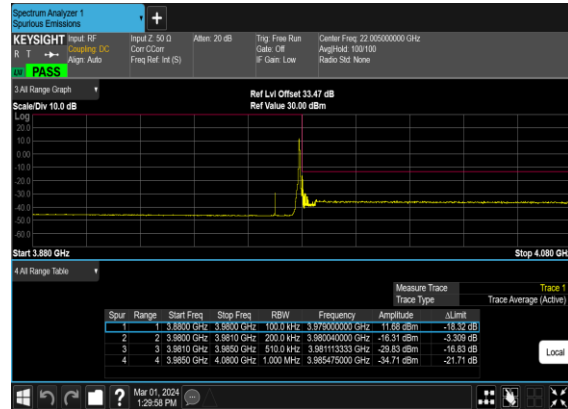
B13\_N77(20M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH



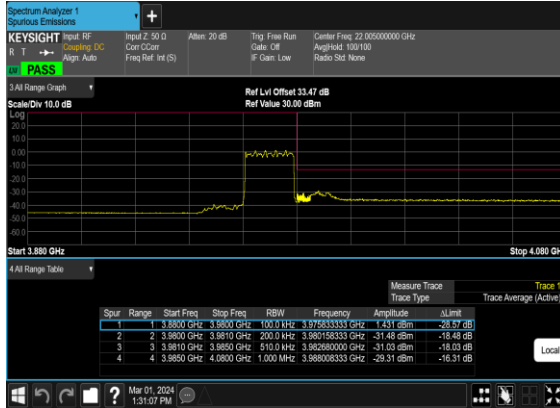
B13\_N77(20M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



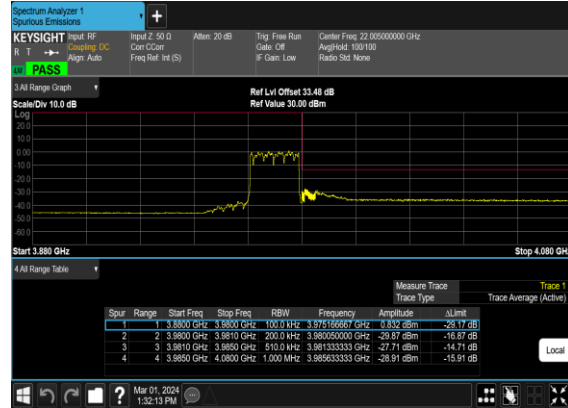
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OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



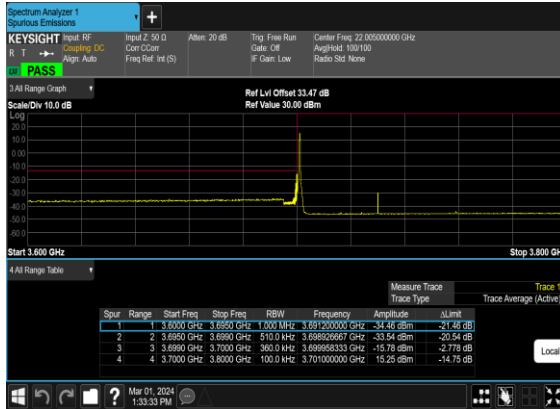
B13\_N77(20M)\_DFT-s-OFDM\_BPSK\_Outer\_Full\_High\_CH



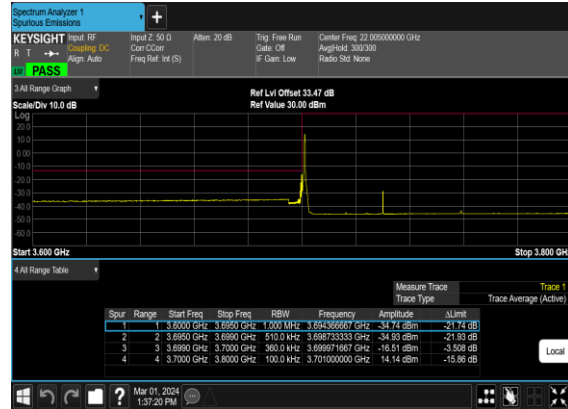
B13\_N77(20M)\_DFT-s-OFDM\_QPSK\_Outer\_Full\_High\_CH



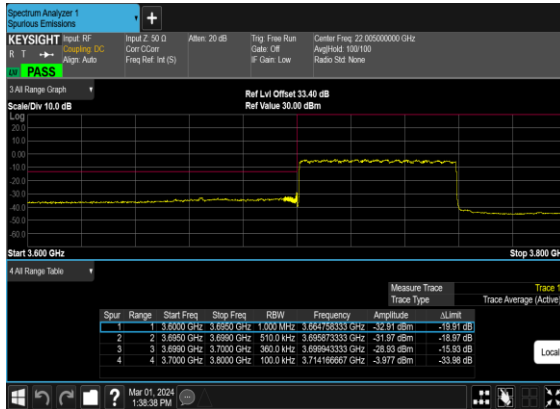
B13\_N77(60M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



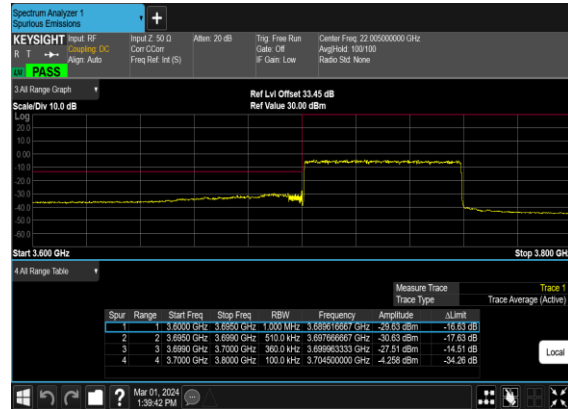
B13\_N77(60M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



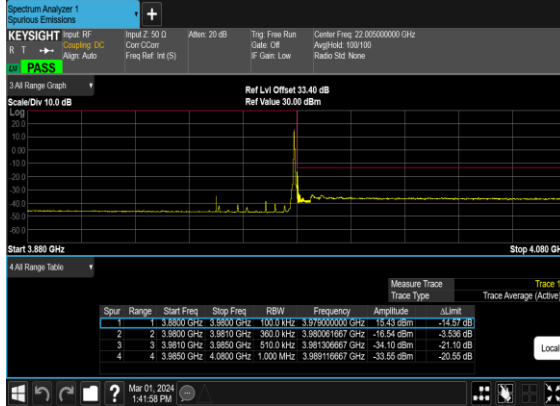
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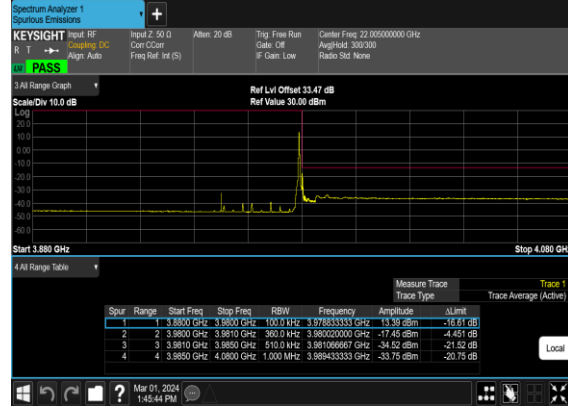
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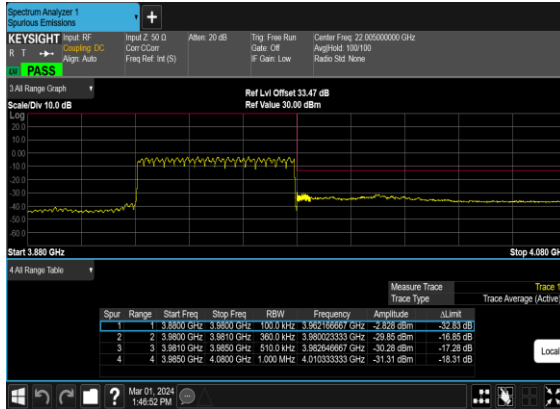
B13\_N77(60M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



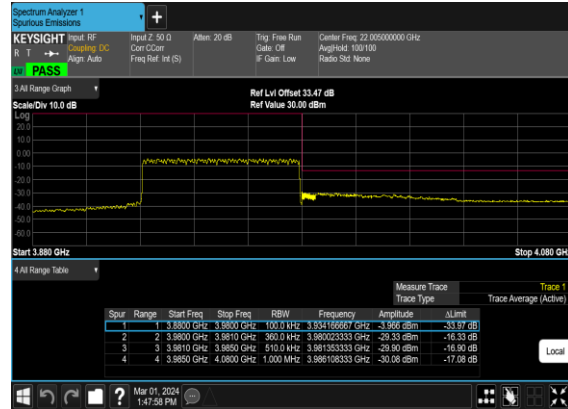
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OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



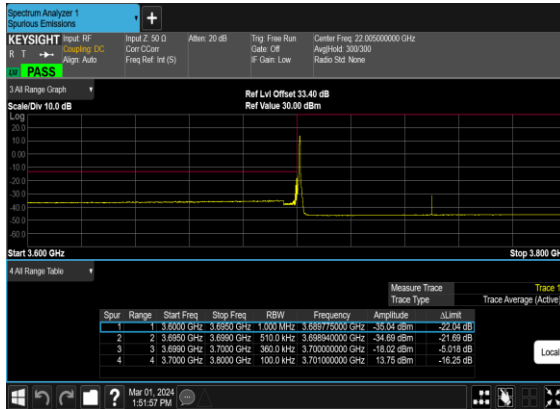
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OFDM\_BPSK\_Outer\_Full\_High\_CH



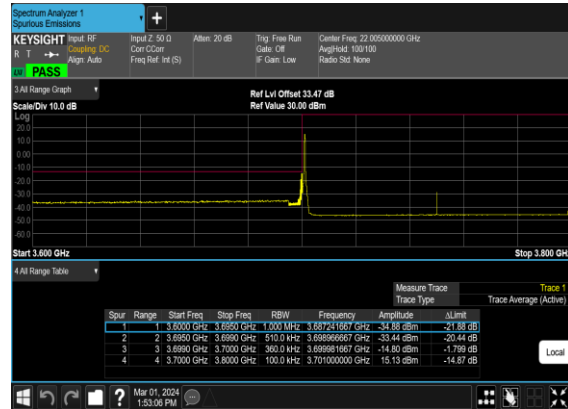
B13\_N77(60M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_High\_CH



B13\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH

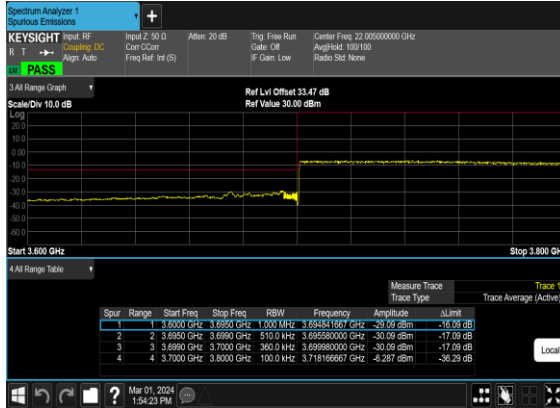


B13\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH

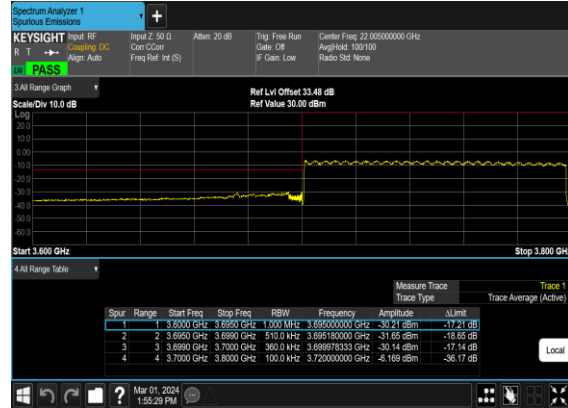




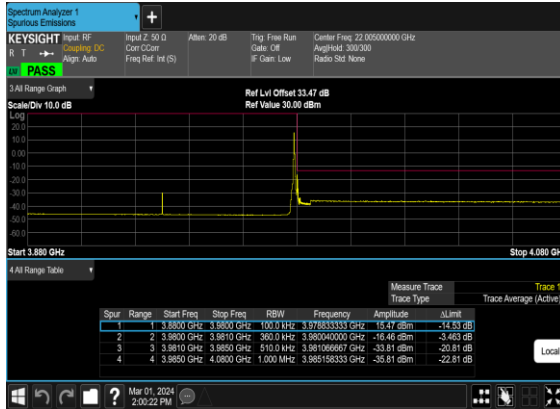
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OFDM\_BPSK\_Outer\_Full\_Low\_CH



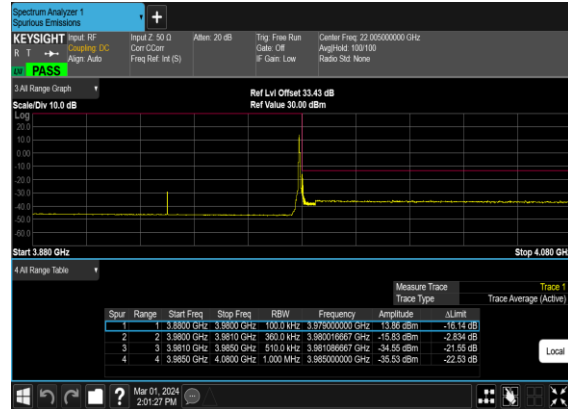
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OFDM\_QPSK\_Outer\_Full\_Low\_CH



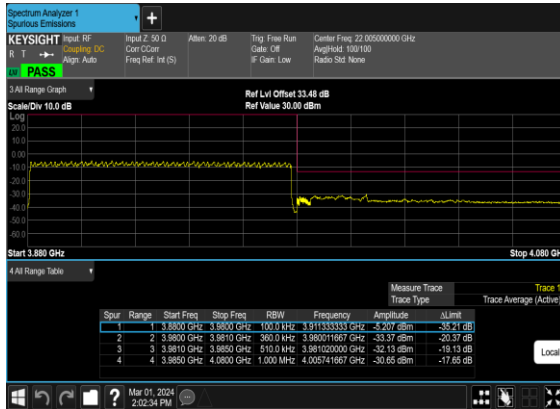
B13\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



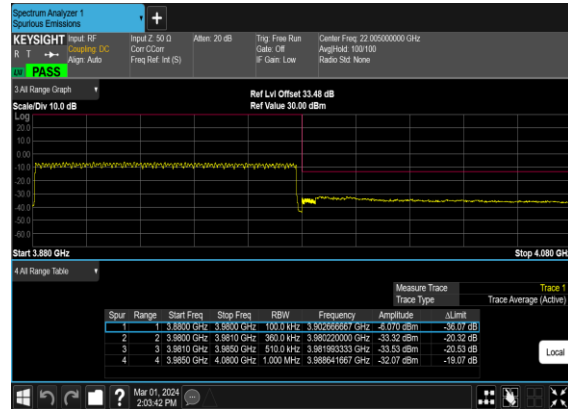
B13\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



B13\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_High\_CH



B13\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_High\_CH



# FR1 N78(ANT2)

## Transmitter Conducted Output Power And EIRP, ( $G_T - L_C$ )= 2.59dB

| NR Band | SCS | Band Width | Arfcn  | Freq(MHz) | Modulation           | RB     | Conducted Power (dBm) | EIRP(dBm) | EIRP(W) |
|---------|-----|------------|--------|-----------|----------------------|--------|-----------------------|-----------|---------|
| 78      | 30  | 100        | 650000 | 3750      | DFT-s-OFDM PI/2 BPSK | 135@67 | 26.42                 | 29.01     | 0.7962  |
| 78      | 30  | 100        | 650000 | 3750      | DFT-s-OFDM PI/2 BPSK | 1@1    | 26.81                 | 29.4      | 0.8710  |
| 78      | 30  | 100        | 650000 | 3750      | DFT-s-OFDM PI/2 BPSK | 1@271  | 26.81                 | 29.4      | 0.8710  |
| 78      | 30  | 100        | 650000 | 3750      | DFT-s-OFDM QPSK      | 135@67 | 26.47                 | 29.06     | 0.8054  |
| 78      | 30  | 100        | 650000 | 3750      | DFT-s-OFDM QPSK      | 1@1    | 26.76                 | 29.35     | 0.8610  |
| 78      | 30  | 100        | 650000 | 3750      | DFT-s-OFDM QPSK      | 1@271  | 26.79                 | 29.38     | 0.8670  |
| 78      | 30  | 100        | 650000 | 3750      | DFT-s-OFDM 16 QAM    | 135@67 | 25.37                 | 27.96     | 0.6252  |
| 78      | 30  | 100        | 650000 | 3750      | DFT-s-OFDM 16 QAM    | 1@1    | 25.79                 | 28.38     | 0.6887  |
| 78      | 30  | 100        | 650000 | 3750      | DFT-s-OFDM 16 QAM    | 1@271  | 25.79                 | 28.38     | 0.6887  |
| 78      | 30  | 100        | 650000 | 3750      | DFT-s-OFDM 64 QAM    | 135@67 | 23.86                 | 26.45     | 0.4416  |
| 78      | 30  | 100        | 650000 | 3750      | DFT-s-OFDM 64 QAM    | 1@1    | 24.24                 | 26.83     | 0.4819  |
| 78      | 30  | 100        | 650000 | 3750      | DFT-s-OFDM 64 QAM    | 1@271  | 24.38                 | 26.97     | 0.4977  |
| 78      | 30  | 100        | 650000 | 3750      | DFT-s-OFDM 256 QAM   | 135@67 | 21.82                 | 24.41     | 0.2761  |
| 78      | 30  | 100        | 650000 | 3750      | DFT-s-OFDM 256 QAM   | 1@1    | 22.29                 | 24.88     | 0.3076  |
| 78      | 30  | 100        | 650000 | 3750      | DFT-s-OFDM 256 QAM   | 1@271  | 22.37                 | 24.96     | 0.3133  |
| 78      | 30  | 100        | 650000 | 3750      | CP-OFDM QPSK         | 137@68 | 24.92                 | 27.51     | 0.5636  |
| 78      | 30  | 100        | 650000 | 3750      | CP-OFDM QPSK         | 1@1    | 25.46                 | 28.05     | 0.6383  |
| 78      | 30  | 100        | 650000 | 3750      | CP-OFDM QPSK         | 1@271  | 25.31                 | 27.9      | 0.6166  |
| 78      | 30  | 20         | 647334 | 3710.01   | DFT-s-OFDM PI/2 BPSK | 1@1    | 24.34                 | 26.93     | 0.4932  |
| 78      | 30  | 20         | 647334 | 3710.01   | DFT-s-OFDM QPSK      | 1@1    | 24.32                 | 26.91     | 0.4909  |
| 78      | 30  | 20         | 647334 | 3710.01   | DFT-s-OFDM 16 QAM    | 1@1    | 23.3                  | 25.89     | 0.3882  |
| 78      | 30  | 20         | 650000 | 3750      | DFT-s-OFDM PI/2 BPSK | 1@1    | 26.67                 | 29.26     | 0.8433  |
| 78      | 30  | 20         | 650000 | 3750      | DFT-s-OFDM QPSK      | 1@1    | 26.78                 | 29.37     | 0.8650  |
| 78      | 30  | 20         | 650000 | 3750      | DFT-s-OFDM 16 QAM    | 1@1    | 25.85                 | 28.44     | 0.6982  |
| 78      | 30  | 20         | 652666 | 3789.99   | DFT-s-OFDM PI/2 BPSK | 1@1    | 24.6                  | 27.19     | 0.5236  |
| 78      | 30  | 20         | 652666 | 3789.99   | DFT-s-OFDM QPSK      | 1@1    | 24.58                 | 27.17     | 0.5212  |
| 78      | 30  | 20         | 652666 | 3789.99   | DFT-s-OFDM 16 QAM    | 1@1    | 23.53                 | 26.12     | 0.4093  |
| 78      | 30  | 30         | 647668 | 3715.02   | DFT-s-OFDM PI/2 BPSK | 1@1    | 24.32                 | 26.91     | 0.4909  |
| 78      | 30  | 30         | 647668 | 3715.02   | DFT-s-OFDM QPSK      | 1@1    | 24.37                 | 26.96     | 0.4966  |
| 78      | 30  | 30         | 647668 | 3715.02   | DFT-s-OFDM 16 QAM    | 1@1    | 23.42                 | 26.01     | 0.3990  |
| 78      | 30  | 30         | 650000 | 3750      | DFT-s-OFDM PI/2 BPSK | 1@1    | 26.80                 | 29.39     | 0.8690  |
| 78      | 30  | 30         | 650000 | 3750      | DFT-s-OFDM QPSK      | 1@1    | 26.77                 | 29.36     | 0.8630  |
| 78      | 30  | 30         | 650000 | 3750      | DFT-s-OFDM 16 QAM    | 1@1    | 26.02                 | 28.61     | 0.7261  |
| 78      | 30  | 30         | 652332 | 3784.98   | DFT-s-OFDM PI/2 BPSK | 1@1    | 24.46                 | 27.05     | 0.5070  |
| 78      | 30  | 30         | 652332 | 3784.98   | DFT-s-OFDM QPSK      | 1@1    | 24.45                 | 27.04     | 0.5058  |
| 78      | 30  | 30         | 652332 | 3784.98   | DFT-s-OFDM 16 QAM    | 1@1    | 23.31                 | 25.9      | 0.3890  |
| 78      | 30  | 40         | 648000 | 3720      | DFT-s-OFDM PI/2 BPSK | 1@1    | 24.46                 | 27.05     | 0.5070  |
| 78      | 30  | 40         | 648000 | 3720      | DFT-s-OFDM QPSK      | 1@1    | 24.35                 | 26.94     | 0.4943  |
| 78      | 30  | 40         | 648000 | 3720      | DFT-s-OFDM 16 QAM    | 1@1    | 23.38                 | 25.97     | 0.3954  |

|    |    |    |        |         |                      |     |       |       |        |
|----|----|----|--------|---------|----------------------|-----|-------|-------|--------|
| 78 | 30 | 40 | 650000 | 3750    | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.55 | 29.14 | 0.8204 |
| 78 | 30 | 40 | 650000 | 3750    | DFT-s-OFDM QPSK      | 1@1 | 26.74 | 29.33 | 0.8570 |
| 78 | 30 | 40 | 650000 | 3750    | DFT-s-OFDM 16 QAM    | 1@1 | 26.01 | 28.6  | 0.7244 |
| 78 | 30 | 40 | 652000 | 3780    | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.63 | 26.22 | 0.4188 |
| 78 | 30 | 40 | 652000 | 3780    | DFT-s-OFDM QPSK      | 1@1 | 23.67 | 26.26 | 0.4227 |
| 78 | 30 | 40 | 652000 | 3780    | DFT-s-OFDM 16 QAM    | 1@1 | 22.52 | 25.11 | 0.3243 |
| 78 | 30 | 50 | 648334 | 3725.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 24.39 | 26.98 | 0.4989 |
| 78 | 30 | 50 | 648334 | 3725.01 | DFT-s-OFDM QPSK      | 1@1 | 24.35 | 26.94 | 0.4943 |
| 78 | 30 | 50 | 648334 | 3725.01 | DFT-s-OFDM 16 QAM    | 1@1 | 23.37 | 25.96 | 0.3945 |
| 78 | 30 | 50 | 650000 | 3750    | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.65 | 29.24 | 0.8395 |
| 78 | 30 | 50 | 650000 | 3750    | DFT-s-OFDM QPSK      | 1@1 | 26.41 | 29    | 0.7943 |
| 78 | 30 | 50 | 650000 | 3750    | DFT-s-OFDM 16 QAM    | 1@1 | 25.82 | 28.41 | 0.6934 |
| 78 | 30 | 50 | 651666 | 3774.99 | DFT-s-OFDM PI/2 BPSK | 1@1 | 23.44 | 26.03 | 0.4009 |
| 78 | 30 | 50 | 651666 | 3774.99 | DFT-s-OFDM QPSK      | 1@1 | 23.45 | 26.04 | 0.4018 |
| 78 | 30 | 50 | 651666 | 3774.99 | DFT-s-OFDM 16 QAM    | 1@1 | 22.48 | 25.07 | 0.3214 |
| 78 | 30 | 60 | 648668 | 3730.02 | DFT-s-OFDM PI/2 BPSK | 1@1 | 24.37 | 26.96 | 0.4966 |
| 78 | 30 | 60 | 648668 | 3730.02 | DFT-s-OFDM QPSK      | 1@1 | 24.41 | 27    | 0.5012 |
| 78 | 30 | 60 | 648668 | 3730.02 | DFT-s-OFDM 16 QAM    | 1@1 | 23.33 | 25.92 | 0.3908 |
| 78 | 30 | 60 | 650000 | 3750    | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.46 | 29.05 | 0.8035 |
| 78 | 30 | 60 | 650000 | 3750    | DFT-s-OFDM QPSK      | 1@1 | 26.32 | 28.91 | 0.7780 |
| 78 | 30 | 60 | 650000 | 3750    | DFT-s-OFDM 16 QAM    | 1@1 | 25.96 | 28.55 | 0.7161 |
| 78 | 30 | 60 | 651332 | 3769.98 | DFT-s-OFDM PI/2 BPSK | 1@1 | 24.39 | 26.98 | 0.4989 |
| 78 | 30 | 60 | 651332 | 3769.98 | DFT-s-OFDM QPSK      | 1@1 | 24.38 | 26.97 | 0.4977 |
| 78 | 30 | 60 | 651332 | 3769.98 | DFT-s-OFDM 16 QAM    | 1@1 | 23.3  | 25.89 | 0.3882 |
| 78 | 30 | 70 | 649000 | 3735    | DFT-s-OFDM PI/2 BPSK | 1@1 | 24.42 | 27.01 | 0.5023 |
| 78 | 30 | 70 | 649000 | 3735    | DFT-s-OFDM QPSK      | 1@1 | 24.34 | 26.93 | 0.4932 |
| 78 | 30 | 70 | 649000 | 3735    | DFT-s-OFDM 16 QAM    | 1@1 | 23.31 | 25.9  | 0.3890 |
| 78 | 30 | 70 | 650000 | 3750    | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.43 | 29.02 | 0.7980 |
| 78 | 30 | 70 | 650000 | 3750    | DFT-s-OFDM QPSK      | 1@1 | 26.32 | 28.91 | 0.7780 |
| 78 | 30 | 70 | 650000 | 3750    | DFT-s-OFDM 16 QAM    | 1@1 | 25.92 | 28.51 | 0.7096 |
| 78 | 30 | 70 | 651000 | 3765    | DFT-s-OFDM PI/2 BPSK | 1@1 | 25.85 | 28.44 | 0.6982 |
| 78 | 30 | 70 | 651000 | 3765    | DFT-s-OFDM QPSK      | 1@1 | 25.83 | 28.42 | 0.6950 |
| 78 | 30 | 70 | 651000 | 3765    | DFT-s-OFDM 16 QAM    | 1@1 | 24.87 | 27.46 | 0.5572 |
| 78 | 30 | 80 | 649334 | 3740.01 | DFT-s-OFDM PI/2 BPSK | 1@1 | 24.3  | 26.89 | 0.4887 |
| 78 | 30 | 80 | 649334 | 3740.01 | DFT-s-OFDM QPSK      | 1@1 | 24.32 | 26.91 | 0.4909 |
| 78 | 30 | 80 | 649334 | 3740.01 | DFT-s-OFDM 16 QAM    | 1@1 | 23.29 | 25.88 | 0.3873 |
| 78 | 30 | 80 | 650000 | 3750    | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.41 | 29    | 0.7943 |
| 78 | 30 | 80 | 650000 | 3750    | DFT-s-OFDM QPSK      | 1@1 | 26.32 | 28.91 | 0.7780 |
| 78 | 30 | 80 | 650000 | 3750    | DFT-s-OFDM 16 QAM    | 1@1 | 25.74 | 28.33 | 0.6808 |
| 78 | 30 | 80 | 650666 | 3759.99 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.65 | 29.24 | 0.8395 |
| 78 | 30 | 80 | 650666 | 3759.99 | DFT-s-OFDM QPSK      | 1@1 | 26.77 | 29.36 | 0.8630 |
| 78 | 30 | 80 | 650666 | 3759.99 | DFT-s-OFDM 16 QAM    | 1@1 | 25.91 | 28.5  | 0.7079 |
| 78 | 30 | 90 | 649668 | 3745.02 | DFT-s-OFDM PI/2 BPSK | 1@1 | 25.68 | 28.27 | 0.6714 |
| 78 | 30 | 90 | 649668 | 3745.02 | DFT-s-OFDM QPSK      | 1@1 | 25.62 | 28.21 | 0.6622 |
| 78 | 30 | 90 | 649668 | 3745.02 | DFT-s-OFDM 16 QAM    | 1@1 | 24.7  | 27.29 | 0.5358 |

|    |    |    |        |         |                      |     |       |       |        |
|----|----|----|--------|---------|----------------------|-----|-------|-------|--------|
| 78 | 30 | 90 | 650000 | 3750    | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.74 | 29.33 | 0.8570 |
| 78 | 30 | 90 | 650000 | 3750    | DFT-s-OFDM QPSK      | 1@1 | 26.35 | 28.94 | 0.7834 |
| 78 | 30 | 90 | 650000 | 3750    | DFT-s-OFDM 16 QAM    | 1@1 | 25.9  | 28.49 | 0.7063 |
| 78 | 30 | 90 | 650332 | 3754.98 | DFT-s-OFDM PI/2 BPSK | 1@1 | 26.62 | 29.21 | 0.8337 |
| 78 | 30 | 90 | 650332 | 3754.98 | DFT-s-OFDM QPSK      | 1@1 | 26.68 | 29.27 | 0.8453 |
| 78 | 30 | 90 | 650332 | 3754.98 | DFT-s-OFDM 16 QAM    | 1@1 | 25.82 | 28.41 | 0.6934 |

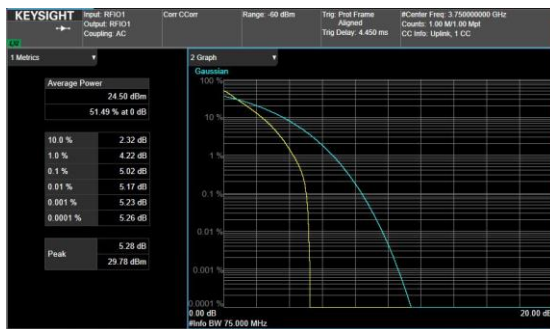
## Frequency Stability

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation      | RB    | Deviation (ppm) | Verdict | Environment |
|---------|-----------|-----------------|--------|------------|-----------------|-------|-----------------|---------|-------------|
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM QPSK | 180@0 | -0.0026         | PASS    | NV          |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM QPSK | 180@0 | 0.0017          | PASS    | LV          |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM QPSK | 180@0 | 0.0032          | PASS    | HV          |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM QPSK | 180@0 | 0.0025          | PASS    | -30℃        |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM QPSK | 180@0 | 0.0013          | PASS    | -20℃        |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM QPSK | 180@0 | 0.0007          | PASS    | -10℃        |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM QPSK | 180@0 | -0.0052         | PASS    | 0℃          |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM QPSK | 180@0 | 0.0033          | PASS    | 10℃         |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM QPSK | 180@0 | 0.0065          | PASS    | 20℃         |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM QPSK | 180@0 | 0.0022          | PASS    | 30℃         |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM QPSK | 180@0 | -0.0037         | PASS    | 40℃         |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM QPSK | 180@0 | -0.0066         | PASS    | 50℃         |

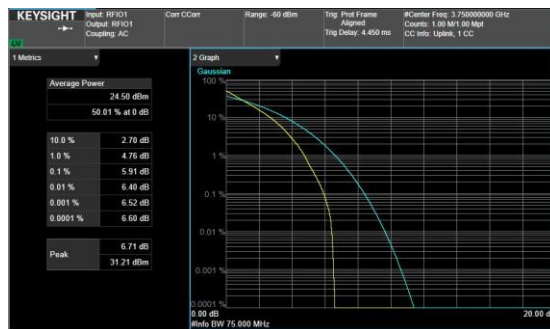
Peak to Average Ratio

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation           | RB    | Result (dB) | Limit (dB) | Verdict |
|---------|-----------|-----------------|--------|------------|----------------------|-------|-------------|------------|---------|
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM PI/2 BPSK | 180@0 | 5.02        | 13         | PASS    |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM PI/2 BPSK | 1@0   | 5.91        | 13         | PASS    |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM QPSK      | 180@0 | 6.35        | 13         | PASS    |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM QPSK      | 1@0   | 6.53        | 13         | PASS    |

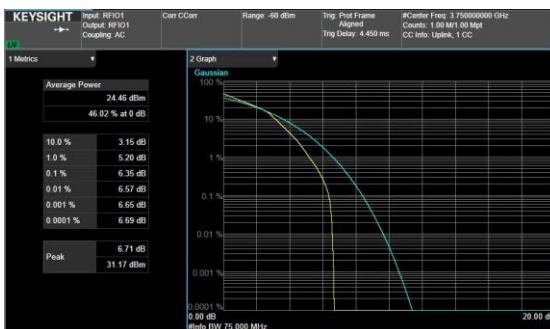
N78(70M)\_DFT-s-OFDM\_PI\_2-  
BPSK\_Full\_Mid\_CH



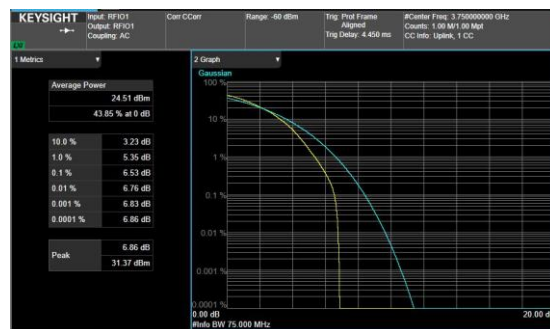
N78(70M)\_DFT-s-OFDM\_PI\_2-  
BPSK\_1RB\_Left\_Mid\_CH



N78(70M)\_DFT-s-  
OFDM\_QPSK\_Full\_Mid\_CH



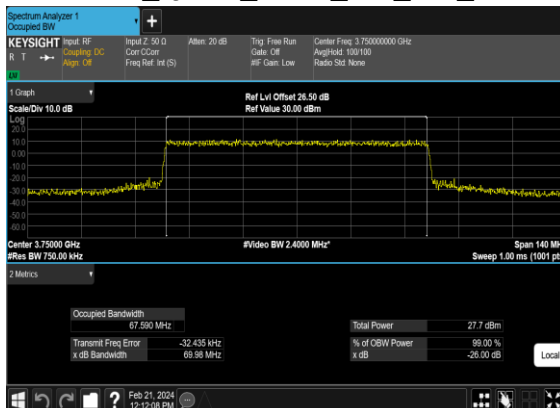
N78(70M)\_DFT-s-  
OFDM\_QPSK\_1RB\_Left\_Mid\_CH



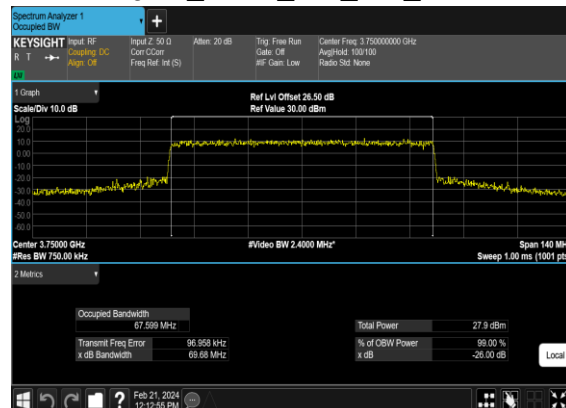
## Occupied Bandwidth

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation      | RB    | OBW (MHz) | 26dB BW (MHz) |
|---------|-----------|-----------------|--------|------------|-----------------|-------|-----------|---------------|
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM QPSK    | 189@0 | 67.59     | 69.98         |
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM 16 QAM  | 189@0 | 67.599    | 69.68         |
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM 64 QAM  | 189@0 | 67.614    | 69.71         |
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM 256 QAM | 189@0 | 67.371    | 69.72         |

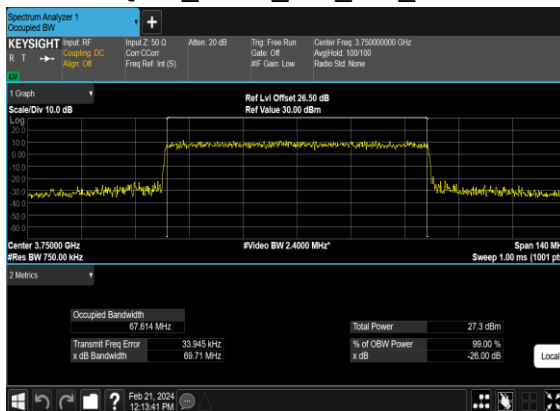
## N78(70M)\_CP- OFDM\_QPSK\_Outer\_Full\_Mid\_CH



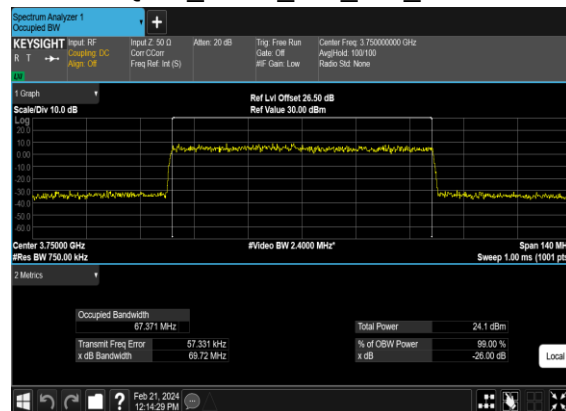
## N78(70M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH



## N78(70M)\_CP-OFDM\_64 QAM\_Outer\_Full\_Mid\_CH



## N78(70M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH

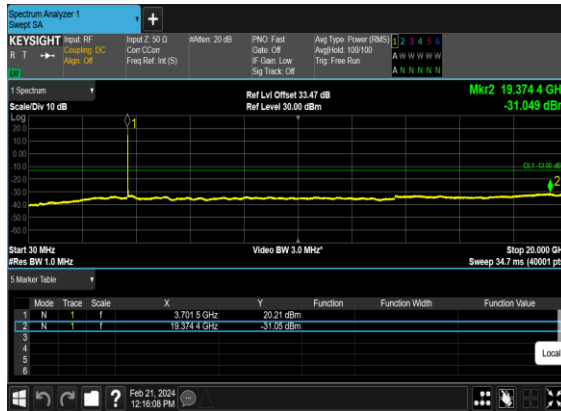




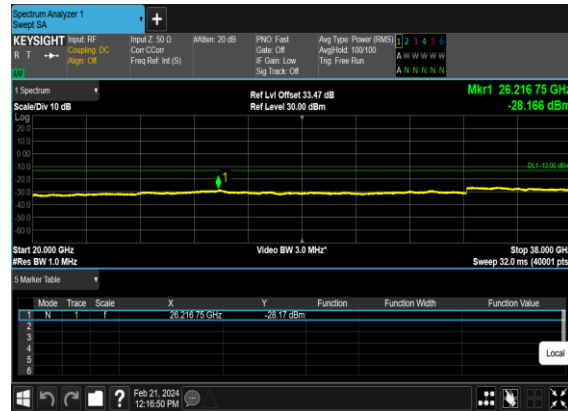
## Conducted Spurious Emissions

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation      | RB  | Result    | Verdict |
|---------|-----------|-----------------|--------|------------|-----------------|-----|-----------|---------|
| 78      | 30        | 70              | 649000 | 3735.0     | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 78      | 30        | 70              | 649000 | 3735.0     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 78      | 30        | 70              | 649000 | 3735.0     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 78      | 30        | 70              | 649000 | 3735.0     | DFT-s-OFDM QPSK | 1@0 | see graph | ---     |
| 78      | 30        | 70              | 649000 | 3735.0     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 78      | 30        | 70              | 649000 | 3735.0     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM QPSK | 1@0 | see graph | ---     |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 78      | 30        | 70              | 650000 | 3750.0     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 78      | 30        | 70              | 651000 | 3765.0     | DFT-s-OFDM BPSK | 1@0 | see graph | ---     |
| 78      | 30        | 70              | 651000 | 3765.0     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 78      | 30        | 70              | 651000 | 3765.0     | DFT-s-OFDM BPSK | 1@0 | see graph | PASS    |
| 78      | 30        | 70              | 651000 | 3765.0     | DFT-s-OFDM QPSK | 1@0 | see graph | ---     |
| 78      | 30        | 70              | 651000 | 3765.0     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |
| 78      | 30        | 70              | 651000 | 3765.0     | DFT-s-OFDM QPSK | 1@0 | see graph | PASS    |

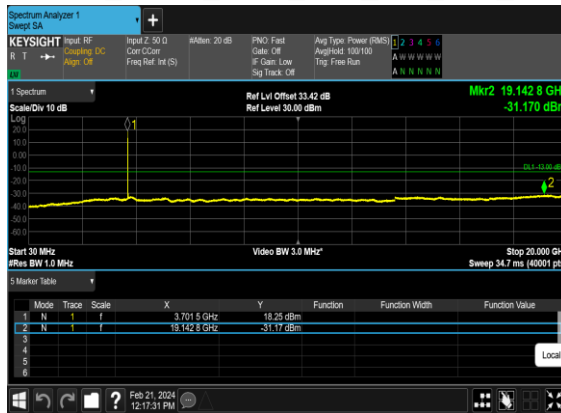
# N78(70M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



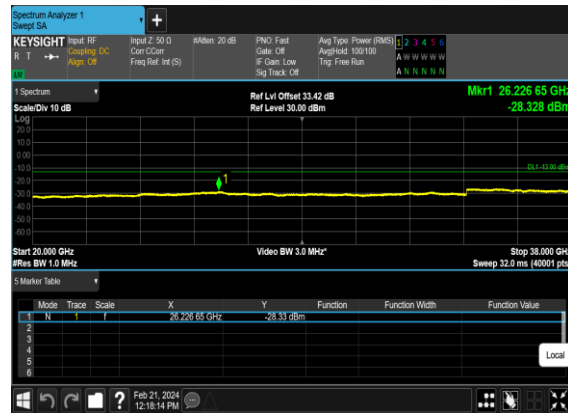
# N78(70M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



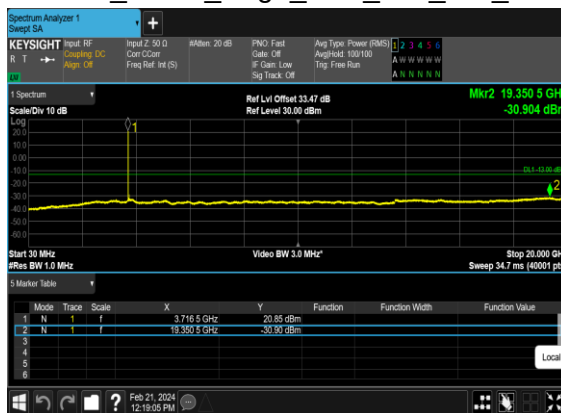
# N78(70M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



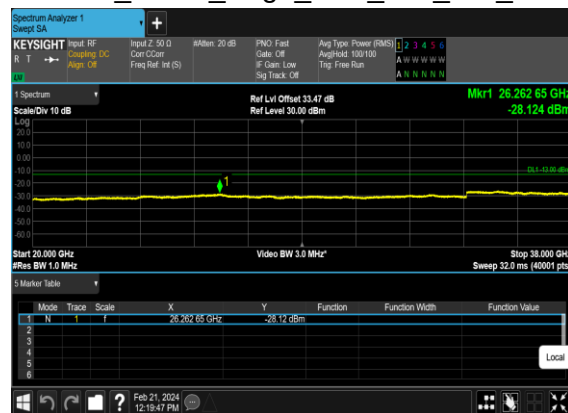
# N78(70M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



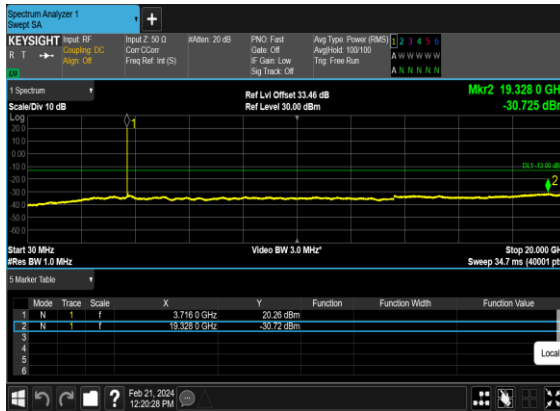
# N78(70M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



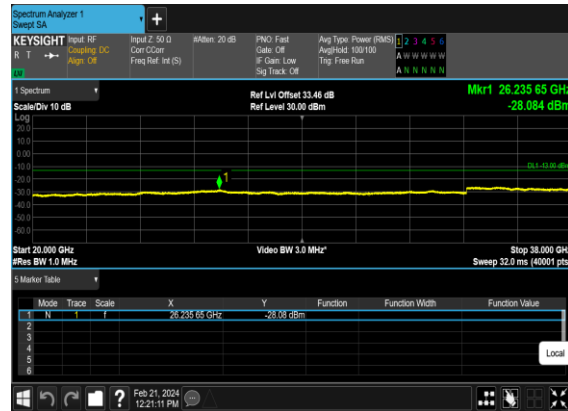
# N78(70M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



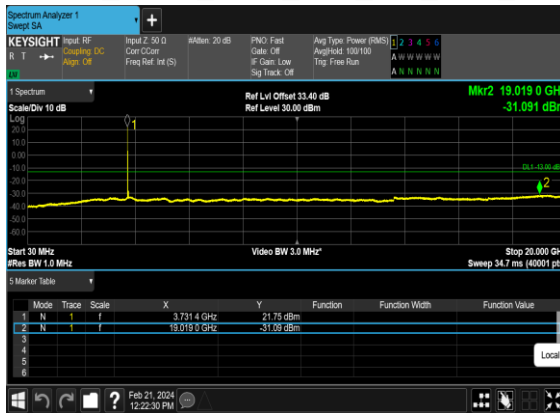
# N78(70M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



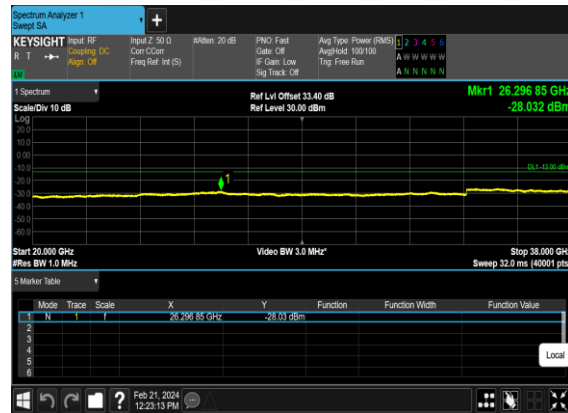
# N78(70M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



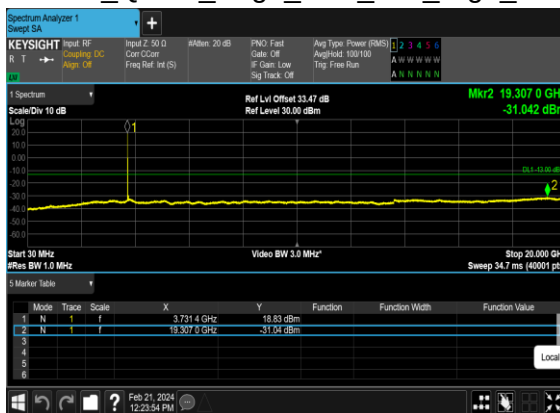
# N78(70M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



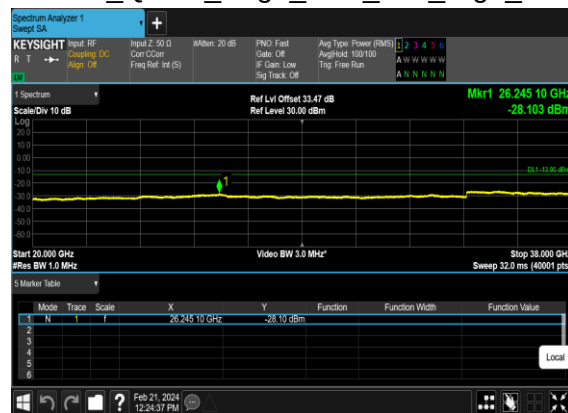
# N78(70M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



# N78(70M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



# N78(70M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



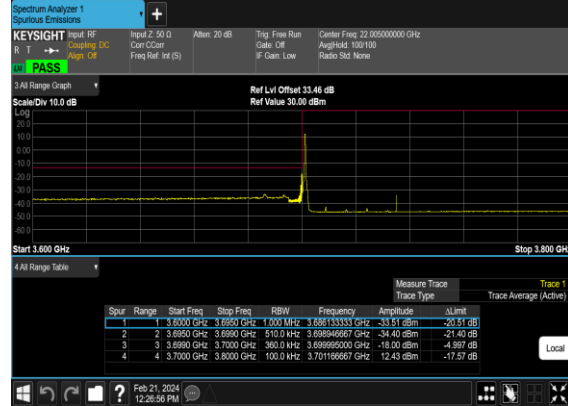
## Conducted Band Edge

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation      | RB    | Result    | Verdict |
|---------|-----------|-----------------|--------|------------|-----------------|-------|-----------|---------|
| 78      | 30        | 70              | 649000 | 3735.0     | DFT-s-OFDM BPSK | 1@0   | see graph | PASS    |
| 78      | 30        | 70              | 649000 | 3735.0     | DFT-s-OFDM QPSK | 1@0   | see graph | PASS    |
| 78      | 30        | 70              | 649000 | 3735.0     | DFT-s-OFDM BPSK | 180@0 | see graph | PASS    |
| 78      | 30        | 70              | 649000 | 3735.0     | DFT-s-OFDM QPSK | 180@0 | see graph | PASS    |
| 78      | 30        | 70              | 651000 | 3765.0     | DFT-s-OFDM BPSK | 1@188 | see graph | PASS    |
| 78      | 30        | 70              | 651000 | 3765.0     | DFT-s-OFDM QPSK | 1@188 | see graph | PASS    |
| 78      | 30        | 70              | 651000 | 3765.0     | DFT-s-OFDM BPSK | 180@0 | see graph | PASS    |
| 78      | 30        | 70              | 651000 | 3765.0     | DFT-s-OFDM QPSK | 180@0 | see graph | PASS    |

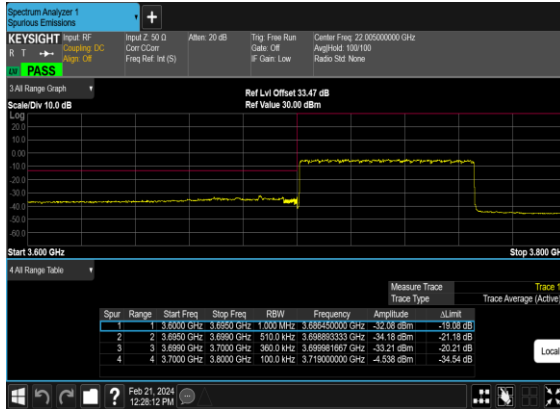
N78(70M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



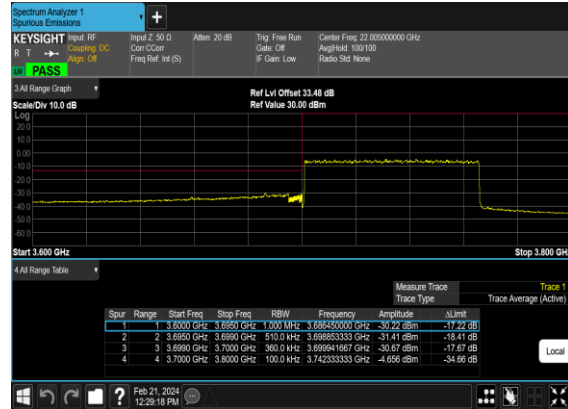
N78(70M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



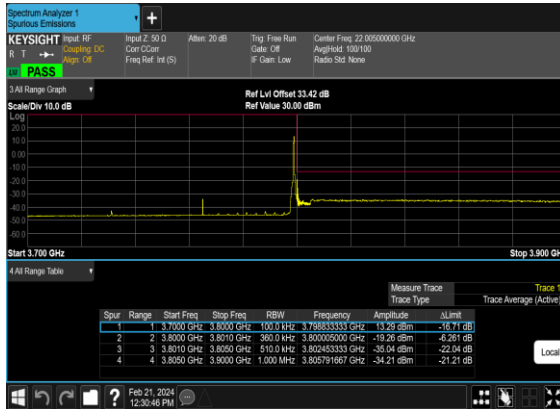
N78(70M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_Low\_CH



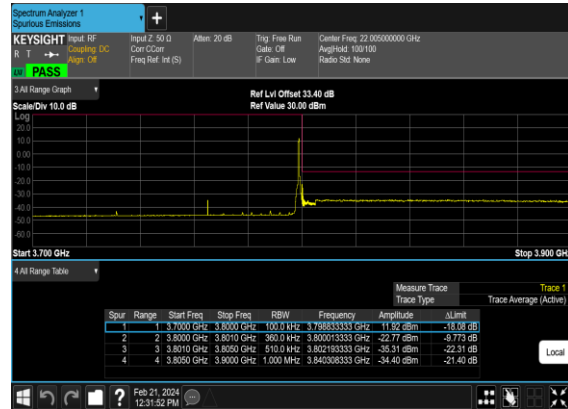
N78(70M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH



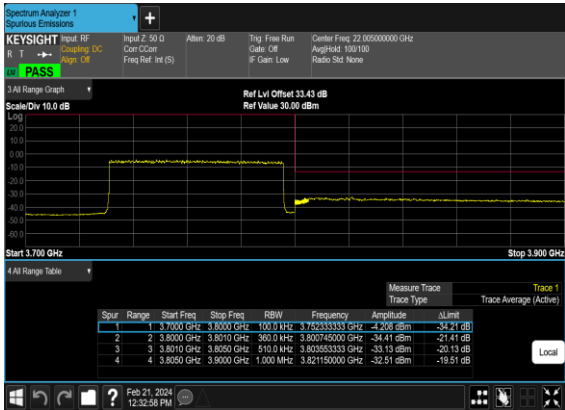
N78(70M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



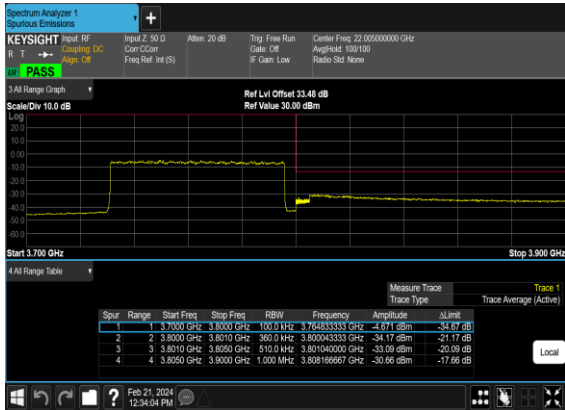
N78(70M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



N78(70M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_High\_CH



N78(70M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_High\_CH



# FR1 N78 MIMO-ANT0+2

## Transmitter Conducted Output Power And EIRP, ( $G_T - L_C$ )= 2.59dB

| NR Band | SCS | BandWidth | Arfcn  | Freq(MHz) | Modulation     | RB  | ANT0<br>Power(dBm) | ANT2<br>Power(dBm) | Conducted<br>Power(dBm) | EIRP(dBm) | EIRP(W) |
|---------|-----|-----------|--------|-----------|----------------|-----|--------------------|--------------------|-------------------------|-----------|---------|
| 78      | 30  | 20        | 647334 | 3710.01   | CP-OFDM QPSK   | 1@1 | 22.7               | 22.93              | 25.83                   | 28.42     | 0.6945  |
| 78      | 30  | 20        | 647334 | 3710.01   | CP-OFDM 16 QAM | 1@1 | 22.23              | 22.58              | 25.42                   | 28.01     | 0.6322  |
| 78      | 30  | 20        | 647334 | 3710.01   | CP-OFDM 64 QAM | 1@1 | 20.8               | 20.95              | 23.89                   | 26.48     | 0.4442  |
| 78      | 30  | 20        | 650000 | 3750      | CP-OFDM QPSK   | 1@1 | 23.02              | 23.02              | 26.03                   | 28.62     | 0.7278  |
| 78      | 30  | 20        | 650000 | 3750      | CP-OFDM 16 QAM | 1@1 | 22.48              | 22.52              | 25.51                   | 28.10     | 0.6457  |
| 78      | 30  | 20        | 650000 | 3750      | CP-OFDM 64 QAM | 1@1 | 21.04              | 21.02              | 24.04                   | 26.63     | 0.4603  |
| 78      | 30  | 20        | 652666 | 3789.99   | CP-OFDM QPSK   | 1@1 | 22.85              | 23.14              | 26.01                   | 28.60     | 0.7241  |
| 78      | 30  | 20        | 652666 | 3789.99   | CP-OFDM 16 QAM | 1@1 | 22.4               | 22.61              | 25.52                   | 28.11     | 0.6466  |
| 78      | 30  | 20        | 652666 | 3789.99   | CP-OFDM 64 QAM | 1@1 | 20.83              | 21.08              | 23.97                   | 26.56     | 0.4526  |
| 78      | 30  | 30        | 647668 | 3715.02   | CP-OFDM QPSK   | 1@1 | 22.75              | 22.97              | 25.87                   | 28.46     | 0.7017  |
| 78      | 30  | 30        | 647668 | 3715.02   | CP-OFDM 16 QAM | 1@1 | 22.17              | 22.52              | 25.36                   | 27.95     | 0.6236  |
| 78      | 30  | 30        | 647668 | 3715.02   | CP-OFDM 64 QAM | 1@1 | 20.81              | 20.94              | 23.89                   | 26.48     | 0.4442  |
| 78      | 30  | 30        | 650000 | 3750      | CP-OFDM QPSK   | 1@1 | 23.06              | 23.07              | 26.08                   | 28.67     | 0.7354  |
| 78      | 30  | 30        | 650000 | 3750      | CP-OFDM 16 QAM | 1@1 | 22.52              | 22.65              | 25.60                   | 28.19     | 0.6585  |
| 78      | 30  | 30        | 650000 | 3750      | CP-OFDM 64 QAM | 1@1 | 21.07              | 21.06              | 24.08                   | 26.67     | 0.4640  |
| 78      | 30  | 30        | 652332 | 3784.98   | CP-OFDM QPSK   | 1@1 | 22.88              | 23.08              | 25.99                   | 28.58     | 0.7213  |
| 78      | 30  | 30        | 652332 | 3784.98   | CP-OFDM 16 QAM | 1@1 | 22.39              | 22.5               | 25.46                   | 28.05     | 0.6376  |
| 78      | 30  | 30        | 652332 | 3784.98   | CP-OFDM 64 QAM | 1@1 | 20.95              | 20.99              | 23.98                   | 26.57     | 0.4540  |
| 78      | 30  | 40        | 648000 | 3720      | CP-OFDM QPSK   | 1@1 | 22.76              | 22.97              | 25.88                   | 28.47     | 0.7025  |
| 78      | 30  | 40        | 648000 | 3720      | CP-OFDM 16 QAM | 1@1 | 22.23              | 22.55              | 25.40                   | 27.99     | 0.6300  |
| 78      | 30  | 40        | 648000 | 3720      | CP-OFDM 64 QAM | 1@1 | 20.81              | 20.99              | 23.91                   | 26.50     | 0.4468  |
| 78      | 30  | 40        | 650000 | 3750      | CP-OFDM QPSK   | 1@1 | 23.1               | 23.03              | 26.08                   | 28.67     | 0.7354  |
| 78      | 30  | 40        | 650000 | 3750      | CP-OFDM 16 QAM | 1@1 | 22.53              | 22.51              | 25.53                   | 28.12     | 0.6487  |
| 78      | 30  | 40        | 650000 | 3750      | CP-OFDM 64 QAM | 1@1 | 21.05              | 21.04              | 24.06                   | 26.65     | 0.4619  |
| 78      | 30  | 40        | 652000 | 3780      | CP-OFDM QPSK   | 1@1 | 23.03              | 23.11              | 26.08                   | 28.67     | 0.7363  |
| 78      | 30  | 40        | 652000 | 3780      | CP-OFDM 16 QAM | 1@1 | 22.7               | 22.67              | 25.70                   | 28.29     | 0.6738  |
| 78      | 30  | 40        | 652000 | 3780      | CP-OFDM 64 QAM | 1@1 | 21.07              | 21.07              | 24.08                   | 26.67     | 0.4645  |
| 78      | 30  | 50        | 648334 | 3725.01   | CP-OFDM QPSK   | 1@1 | 22.67              | 22.9               | 25.80                   | 28.39     | 0.6897  |
| 78      | 30  | 50        | 648334 | 3725.01   | CP-OFDM 16 QAM | 1@1 | 22.22              | 22.4               | 25.32                   | 27.91     | 0.6182  |
| 78      | 30  | 50        | 648334 | 3725.01   | CP-OFDM 64 QAM | 1@1 | 20.78              | 20.9               | 23.85                   | 26.44     | 0.4406  |
| 78      | 30  | 50        | 650000 | 3750      | CP-OFDM QPSK   | 1@1 | 23.01              | 22.92              | 25.98                   | 28.57     | 0.7187  |
| 78      | 30  | 50        | 650000 | 3750      | CP-OFDM 16 QAM | 1@1 | 22.49              | 22.48              | 25.50                   | 28.09     | 0.6435  |
| 78      | 30  | 50        | 650000 | 3750      | CP-OFDM 64 QAM | 1@1 | 21                 | 21.03              | 24.03                   | 26.62     | 0.4587  |
| 78      | 30  | 50        | 651666 | 3774.99   | CP-OFDM QPSK   | 1@1 | 22.92              | 22.94              | 25.94                   | 28.53     | 0.7129  |
| 78      | 30  | 50        | 651666 | 3774.99   | CP-OFDM 16 QAM | 1@1 | 22.54              | 22.45              | 25.51                   | 28.10     | 0.6450  |
| 78      | 30  | 50        | 651666 | 3774.99   | CP-OFDM 64 QAM | 1@1 | 20.97              | 20.97              | 23.98                   | 26.57     | 0.4540  |
| 78      | 30  | 60        | 648668 | 3730.02   | CP-OFDM QPSK   | 1@1 | 22.6               | 22.85              | 25.74                   | 28.33     | 0.6803  |
| 78      | 30  | 60        | 648668 | 3730.02   | CP-OFDM 16 QAM | 1@1 | 22.19              | 22.35              | 25.28                   | 27.87     | 0.6125  |
| 78      | 30  | 60        | 648668 | 3730.02   | CP-OFDM 64 QAM | 1@1 | 20.67              | 20.88              | 23.79                   | 26.38     | 0.4342  |
| 78      | 30  | 60        | 650000 | 3750      | CP-OFDM QPSK   | 1@1 | 22.9               | 23.03              | 25.98                   | 28.57     | 0.7188  |
| 78      | 30  | 60        | 650000 | 3750      | CP-OFDM 16 QAM | 1@1 | 22.5               | 22.52              | 25.52                   | 28.11     | 0.6472  |

|    |    |     |        |         |                 |        |       |       |       |       |        |
|----|----|-----|--------|---------|-----------------|--------|-------|-------|-------|-------|--------|
| 78 | 30 | 60  | 650000 | 3750    | CP-OFDM 64 QAM  | 1@1    | 20.93 | 20.87 | 23.91 | 26.50 | 0.4467 |
| 78 | 30 | 60  | 651332 | 3769.98 | CP-OFDM QPSK    | 1@1    | 22.84 | 22.93 | 25.90 | 28.49 | 0.7056 |
| 78 | 30 | 60  | 651332 | 3769.98 | CP-OFDM 16 QAM  | 1@1    | 22.37 | 22.59 | 25.49 | 28.08 | 0.6429 |
| 78 | 30 | 60  | 651332 | 3769.98 | CP-OFDM 64 QAM  | 1@1    | 21.04 | 21.03 | 24.05 | 26.64 | 0.4608 |
| 78 | 30 | 70  | 649000 | 3735    | CP-OFDM QPSK    | 1@1    | 22.61 | 22.89 | 25.76 | 28.35 | 0.6843 |
| 78 | 30 | 70  | 649000 | 3735    | CP-OFDM 16 QAM  | 1@1    | 22.21 | 22.45 | 25.34 | 27.93 | 0.6211 |
| 78 | 30 | 70  | 649000 | 3735    | CP-OFDM 64 QAM  | 1@1    | 20.75 | 20.94 | 23.86 | 26.45 | 0.4412 |
| 78 | 30 | 70  | 650000 | 3750    | CP-OFDM QPSK    | 1@1    | 22.87 | 22.89 | 25.89 | 28.48 | 0.7047 |
| 78 | 30 | 70  | 650000 | 3750    | CP-OFDM 16 QAM  | 1@1    | 22.42 | 22.48 | 25.46 | 28.05 | 0.6383 |
| 78 | 30 | 70  | 650000 | 3750    | CP-OFDM 64 QAM  | 1@1    | 21.04 | 20.94 | 24.00 | 26.59 | 0.4561 |
| 78 | 30 | 70  | 651000 | 3765    | CP-OFDM QPSK    | 1@1    | 22.97 | 22.9  | 25.95 | 28.54 | 0.7137 |
| 78 | 30 | 70  | 651000 | 3765    | CP-OFDM 16 QAM  | 1@1    | 22.55 | 22.32 | 25.45 | 28.04 | 0.6363 |
| 78 | 30 | 70  | 651000 | 3765    | CP-OFDM 64 QAM  | 1@1    | 20.97 | 20.85 | 23.92 | 26.51 | 0.4478 |
| 78 | 30 | 80  | 649334 | 3740.01 | CP-OFDM QPSK    | 1@1    | 22.68 | 22.9  | 25.80 | 28.39 | 0.6905 |
| 78 | 30 | 80  | 649334 | 3740.01 | CP-OFDM 16 QAM  | 1@1    | 22.14 | 22.49 | 25.33 | 27.92 | 0.6193 |
| 78 | 30 | 80  | 649334 | 3740.01 | CP-OFDM 64 QAM  | 1@1    | 20.63 | 20.88 | 23.77 | 26.36 | 0.4322 |
| 78 | 30 | 80  | 650000 | 3750    | CP-OFDM QPSK    | 1@1    | 22.9  | 22.99 | 25.96 | 28.55 | 0.7154 |
| 78 | 30 | 80  | 650000 | 3750    | CP-OFDM 16 QAM  | 1@1    | 22.36 | 22.48 | 25.43 | 28.02 | 0.6340 |
| 78 | 30 | 80  | 650000 | 3750    | CP-OFDM 64 QAM  | 1@1    | 20.8  | 20.95 | 23.89 | 26.48 | 0.4442 |
| 78 | 30 | 80  | 650666 | 3759.99 | CP-OFDM QPSK    | 1@1    | 22.9  | 23.03 | 25.98 | 28.57 | 0.7188 |
| 78 | 30 | 80  | 650666 | 3759.99 | CP-OFDM 16 QAM  | 1@1    | 22.59 | 22.45 | 25.53 | 28.12 | 0.6488 |
| 78 | 30 | 80  | 650666 | 3759.99 | CP-OFDM 64 QAM  | 1@1    | 20.93 | 20.96 | 23.96 | 26.55 | 0.4514 |
| 78 | 30 | 90  | 649668 | 3745.02 | CP-OFDM QPSK    | 1@1    | 22.8  | 22.97 | 25.90 | 28.49 | 0.7057 |
| 78 | 30 | 90  | 649668 | 3745.02 | CP-OFDM 16 QAM  | 1@1    | 22.34 | 22.56 | 25.46 | 28.05 | 0.6385 |
| 78 | 30 | 90  | 649668 | 3745.02 | CP-OFDM 64 QAM  | 1@1    | 20.76 | 21.02 | 23.90 | 26.49 | 0.4459 |
| 78 | 30 | 90  | 650000 | 3750    | CP-OFDM QPSK    | 1@1    | 22.77 | 23.06 | 25.93 | 28.52 | 0.7108 |
| 78 | 30 | 90  | 650000 | 3750    | CP-OFDM 16 QAM  | 1@1    | 22.4  | 22.61 | 25.52 | 28.11 | 0.6466 |
| 78 | 30 | 90  | 650000 | 3750    | CP-OFDM 64 QAM  | 1@1    | 20.83 | 21.01 | 23.93 | 26.52 | 0.4489 |
| 78 | 30 | 90  | 650332 | 3754.98 | CP-OFDM QPSK    | 1@1    | 22.98 | 22.97 | 25.99 | 28.58 | 0.7203 |
| 78 | 30 | 90  | 650332 | 3754.98 | CP-OFDM 16 QAM  | 1@1    | 22.38 | 22.52 | 25.46 | 28.05 | 0.6384 |
| 78 | 30 | 90  | 650332 | 3754.98 | CP-OFDM 64 QAM  | 1@1    | 20.88 | 21    | 23.95 | 26.54 | 0.4509 |
| 78 | 30 | 100 | 650000 | 3750    | CP-OFDM QPSK    | 1@1    | 22.77 | 22.85 | 25.82 | 28.41 | 0.6935 |
| 78 | 30 | 100 | 650000 | 3750    | CP-OFDM QPSK    | 1@271  | 23.11 | 23.2  | 26.17 | 28.76 | 0.7509 |
| 78 | 30 | 100 | 650000 | 3750    | CP-OFDM 16 QAM  | 137@68 | 22.36 | 22.36 | 25.37 | 27.96 | 0.6252 |
| 78 | 30 | 100 | 650000 | 3750    | CP-OFDM 16 QAM  | 1@1    | 22.32 | 22.4  | 25.37 | 27.96 | 0.6252 |
| 78 | 30 | 100 | 650000 | 3750    | CP-OFDM 16 QAM  | 1@271  | 22.23 | 22.33 | 25.29 | 27.88 | 0.6138 |
| 78 | 30 | 100 | 650000 | 3750    | CP-OFDM 64 QAM  | 137@68 | 20.86 | 20.85 | 23.87 | 26.46 | 0.4421 |
| 78 | 30 | 100 | 650000 | 3750    | CP-OFDM 64 QAM  | 1@1    | 20.94 | 20.85 | 23.91 | 26.50 | 0.4462 |
| 78 | 30 | 100 | 650000 | 3750    | CP-OFDM 64 QAM  | 1@271  | 20.81 | 20.81 | 23.82 | 26.41 | 0.4376 |
| 78 | 30 | 100 | 650000 | 3750    | CP-OFDM 256 QAM | 137@68 | 17.87 | 17.85 | 20.87 | 23.46 | 0.2218 |
| 78 | 30 | 100 | 650000 | 3750    | CP-OFDM 256 QAM | 1@1    | 17.74 | 17.86 | 20.81 | 23.40 | 0.2188 |
| 78 | 30 | 100 | 650000 | 3750    | CP-OFDM 256 QAM | 1@271  | 17.69 | 17.87 | 20.79 | 23.38 | 0.2178 |



# FR1 N78 MIMO-ANT0

## Frequency Stability

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation   | RB    | Deviation (ppm) | Verdict | Environment |
|---------|-----------|-----------------|--------|------------|--------------|-------|-----------------|---------|-------------|
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM QPSK | 189@0 | 0.0018          | PASS    | NV          |
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM QPSK | 189@0 | 0.0024          | PASS    | LV          |
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM QPSK | 189@0 | -0.0015         | PASS    | HV          |
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM QPSK | 189@0 | 0.0021          | PASS    | -30°C       |
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM QPSK | 189@0 | 0.0019          | PASS    | -20°C       |
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM QPSK | 189@0 | 0.0013          | PASS    | -10°C       |
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM QPSK | 189@0 | -0.0043         | PASS    | 0°C         |
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM QPSK | 189@0 | -0.0028         | PASS    | 10°C        |
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM QPSK | 189@0 | 0.0046          | PASS    | 20°C        |
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM QPSK | 189@0 | 0.0051          | PASS    | 30°C        |
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM QPSK | 189@0 | -0.0033         | PASS    | 40°C        |
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM QPSK | 189@0 | 0.0058          | PASS    | 50°C        |

## Peak to Average Ratio

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation     | RB    | Result (dB) | Limit (dB) | Verdict |
|---------|-----------|-----------------|--------|------------|----------------|-------|-------------|------------|---------|
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM QPSK   | 189@0 | 5.02        | 13         | PASS    |
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM QPSK   | 1@0   | 5.21        | 13         | PASS    |
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM 16 QAM | 189@0 | 6.36        | 13         | PASS    |
| 78      | 30        | 70              | 650000 | 3750.0     | CP-OFDM 16 QAM | 1@0   | 6.54        | 13         | PASS    |