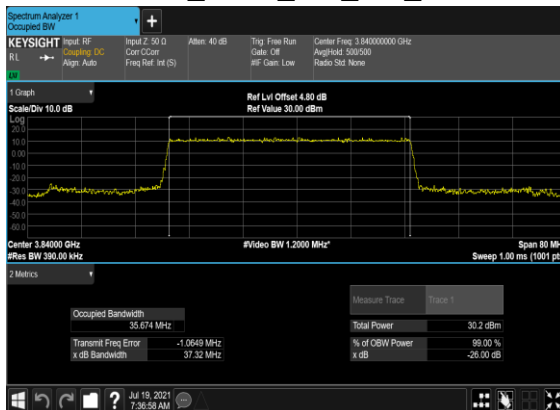
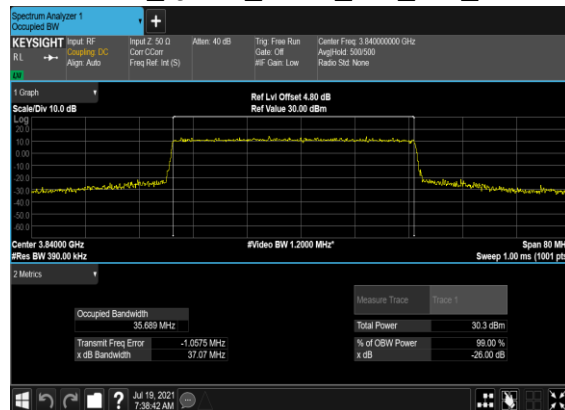


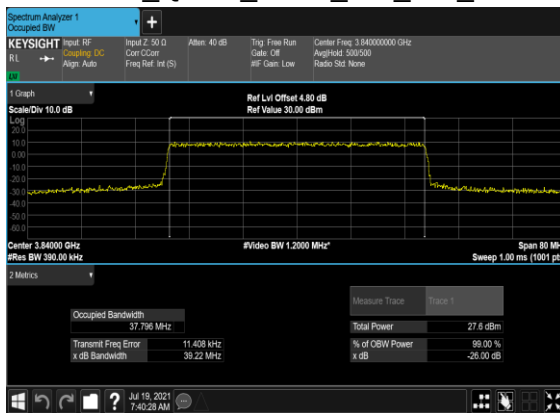
B2\_N77(40M)\_DFT-s-OFDM\_PI\_2-  
BPSK\_Outer\_Full\_Mid\_CH



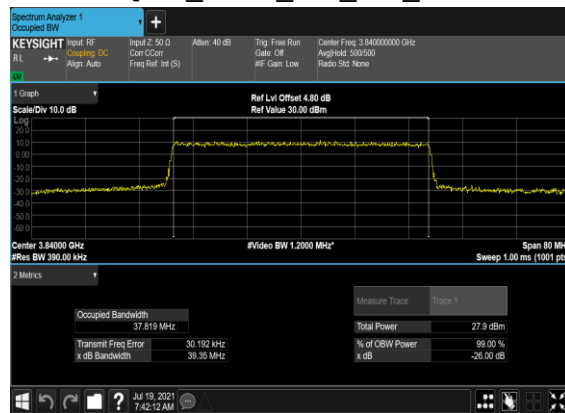
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OFDM\_QPSK\_Outer\_Full\_Mid\_CH



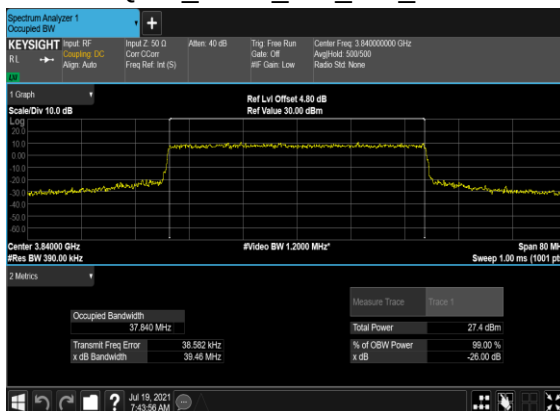
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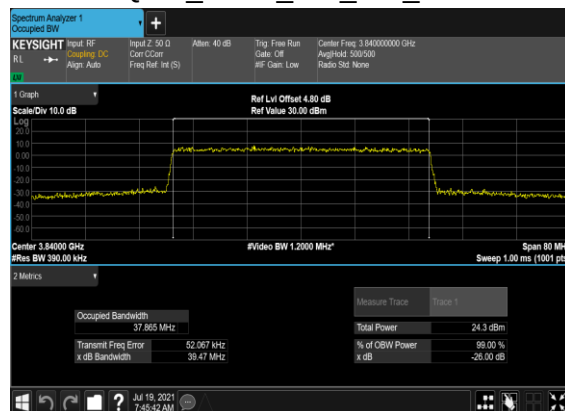
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QAM\_Outer\_Full\_Mid\_CH



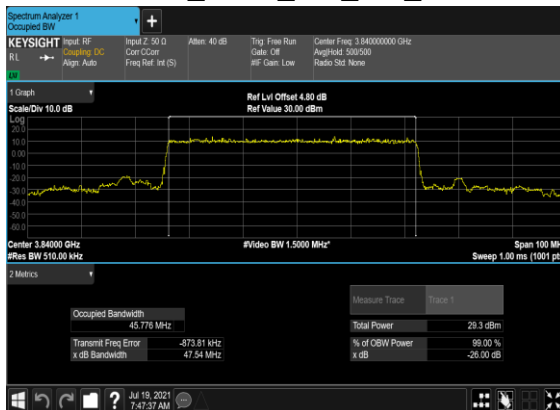
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QAM\_Outer\_Full\_Mid\_CH



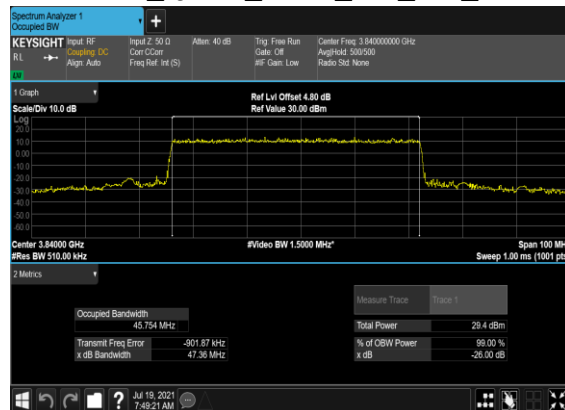
B2\_N77(40M)\_CP-OFDM\_256  
QAM\_Outer\_Full\_Mid\_CH



B2\_N77(50M)\_DFT-s-OFDM\_PI\_2-  
BPSK\_Outer\_Full\_Mid\_CH



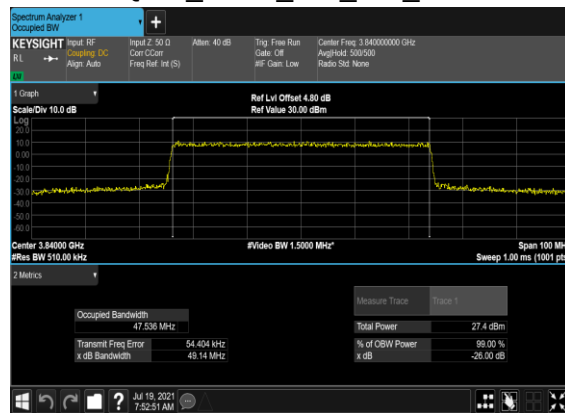
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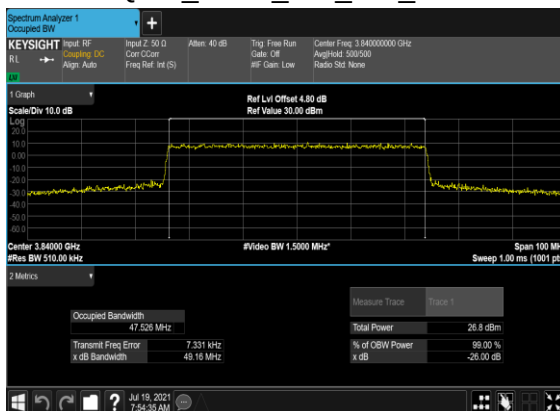
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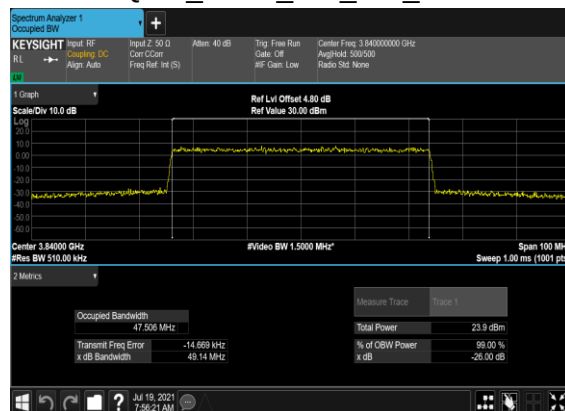
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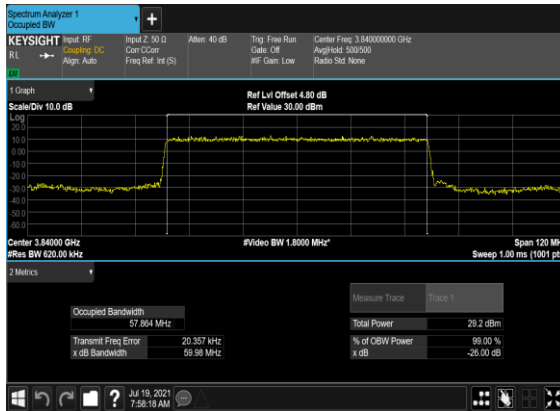
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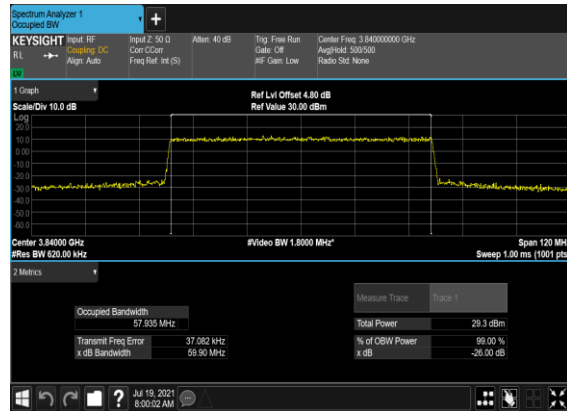
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QAM\_Outer\_Full\_Mid\_CH



B2\_N77(60M)\_DFT-s-OFDM\_PI\_2-  
BPSK\_Outer\_Full\_Mid\_CH



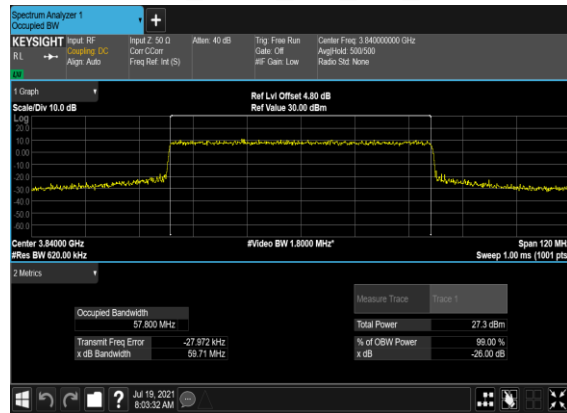
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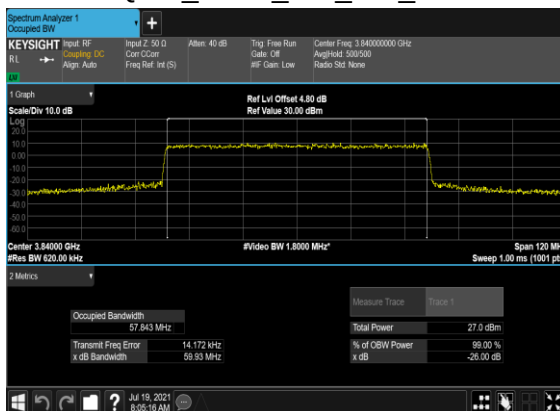
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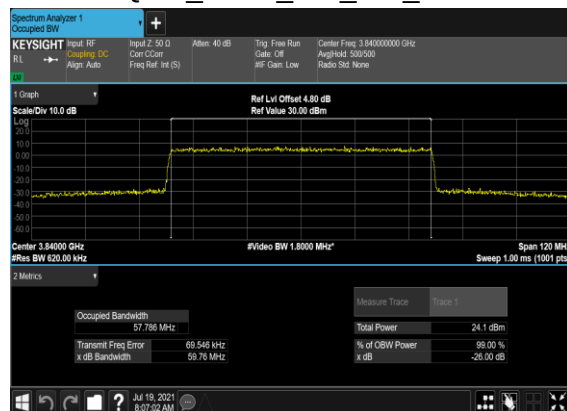
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QAM\_Outer\_Full\_Mid\_CH



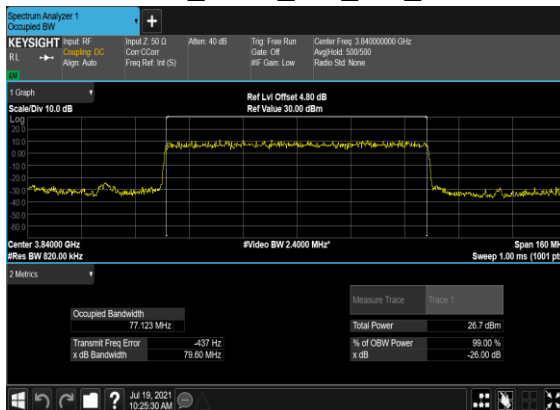
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QAM\_Outer\_Full\_Mid\_CH



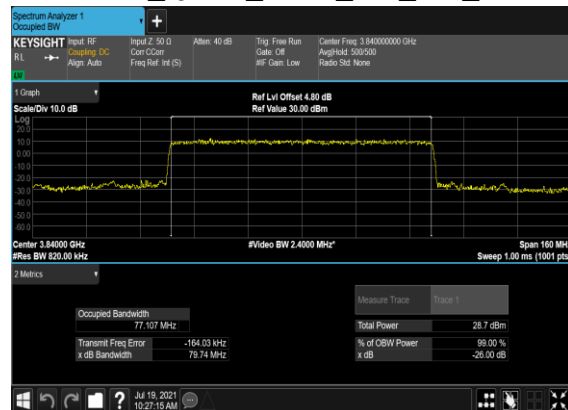
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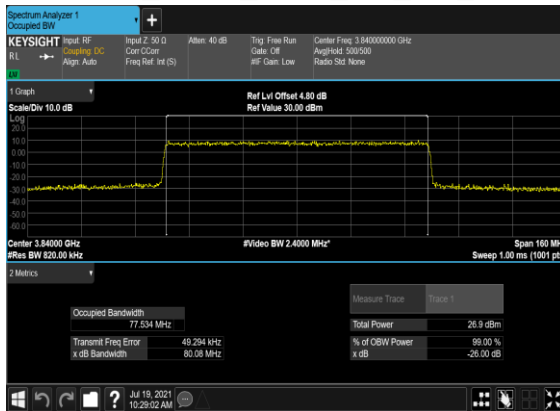
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BPSK\_Outer\_Full\_Mid\_CH



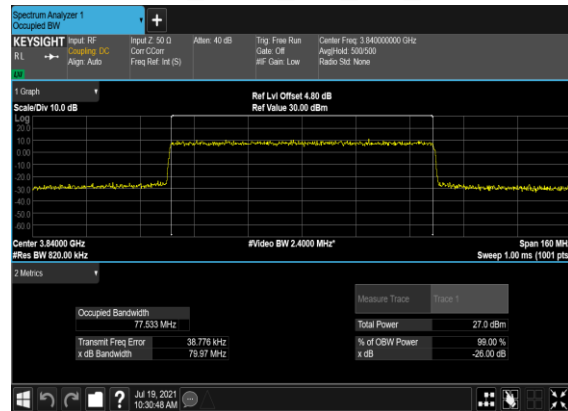
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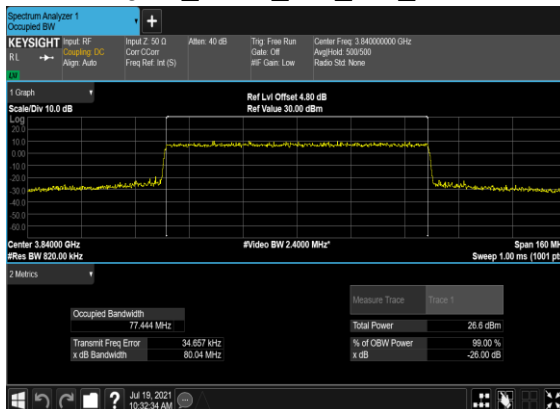
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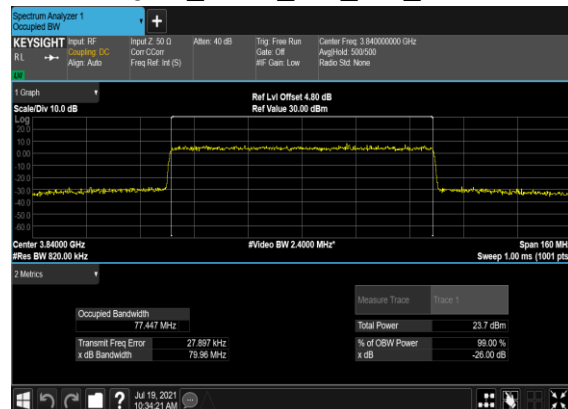
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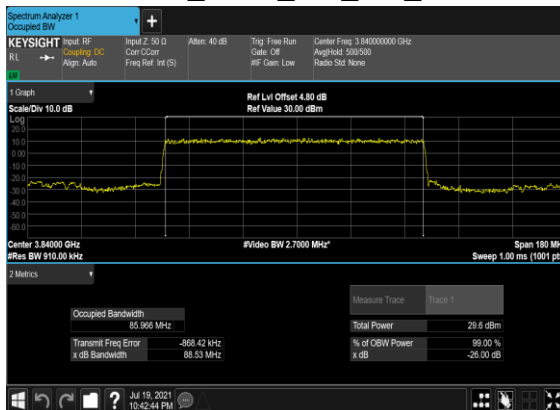
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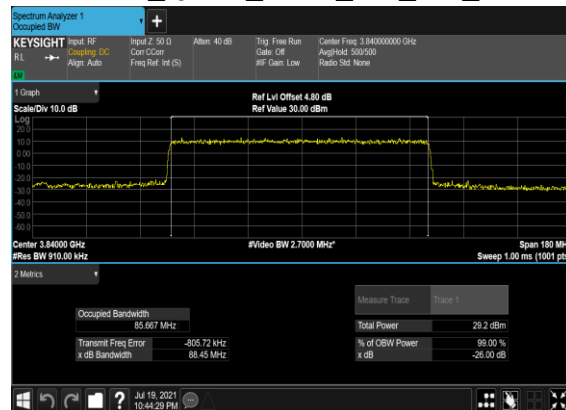
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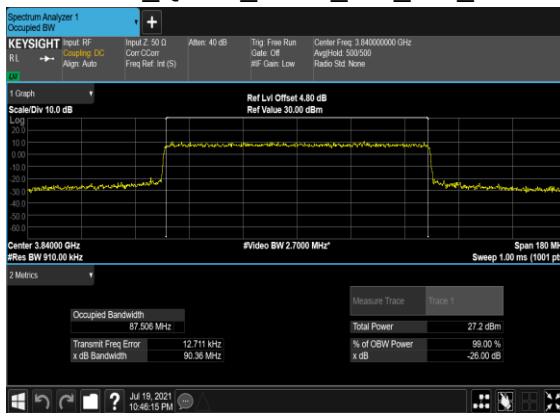
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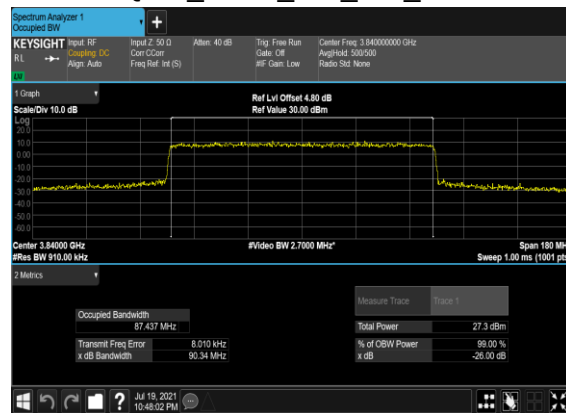
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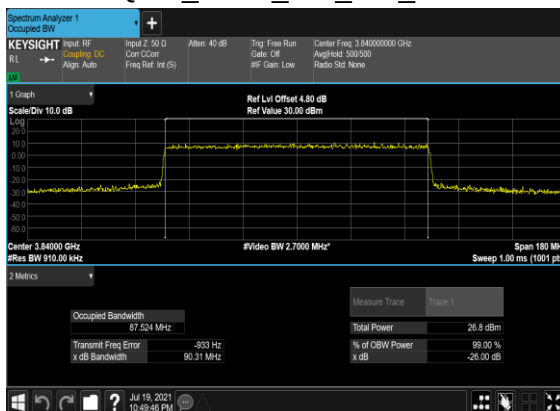
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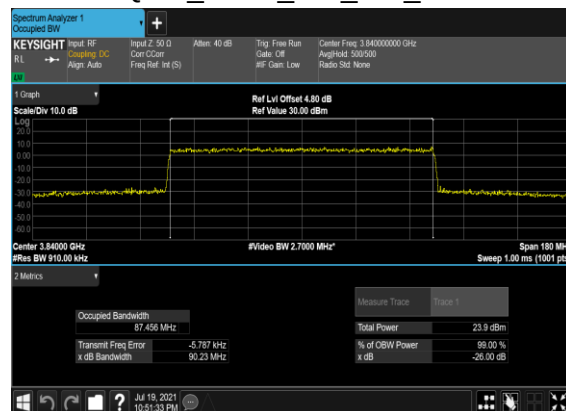
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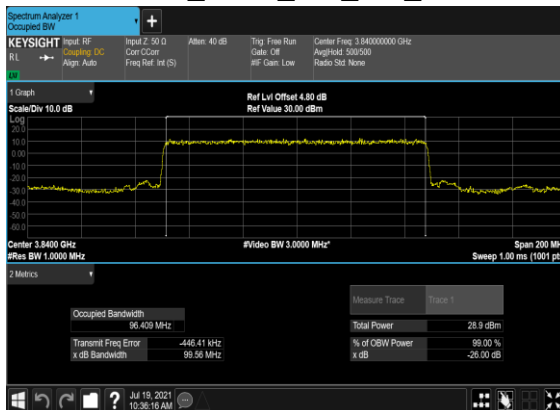
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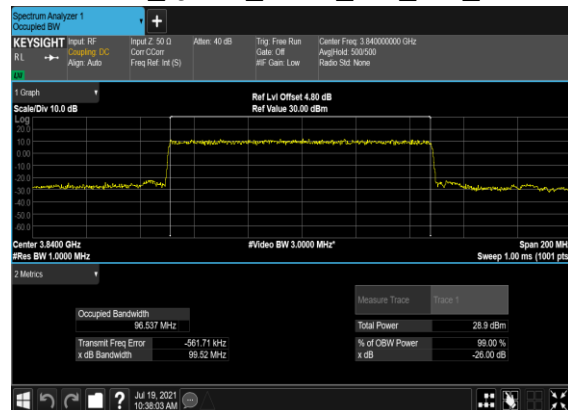
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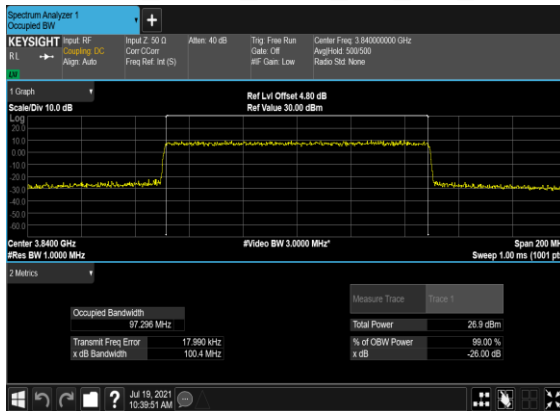
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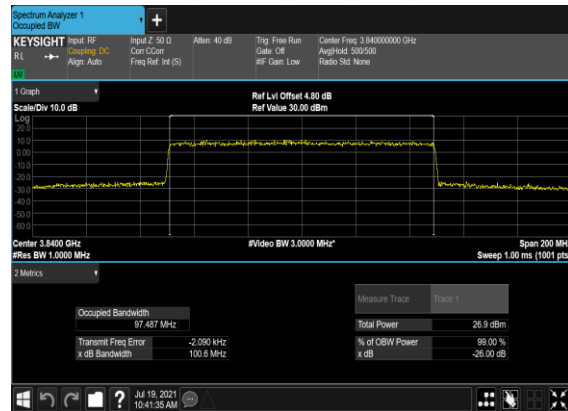
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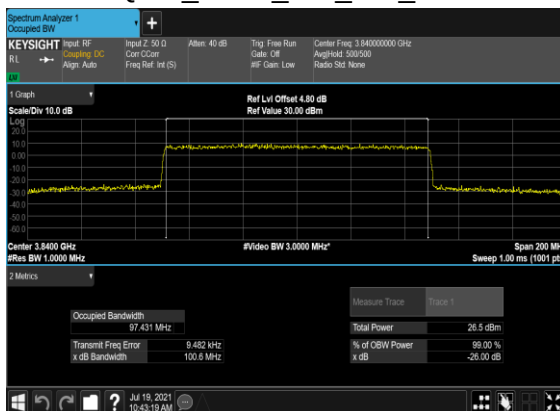
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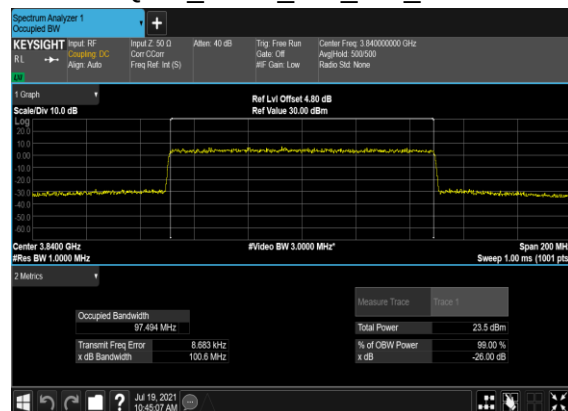
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QAM\_Outer\_Full\_Mid\_CH



B2\_N77(100M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH



B2\_N77(100M)\_CP-OFDM\_256  
QAM\_Outer\_Full\_Mid\_CH



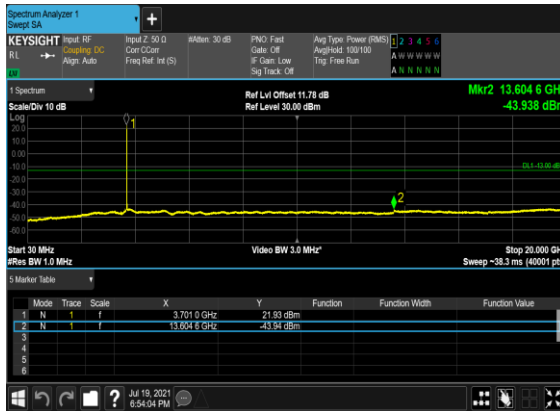
## Conducted Spurious Emissions

| 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 QPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 650000 | 3750.0  | DFT-s-OFDM BPSK | 1@0 | see graph | ---  |
| 77 | 30 | 100 | 650000 | 3750.0  | DFT-s-OFDM BPSK | 1@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 | ---  |
| 77 | 30 | 100 | 650000 | 3750.0  | DFT-s-OFDM QPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 650000 | 3750.0  | DFT-s-OFDM QPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 656000 | 3840.0  | DFT-s-OFDM BPSK | 1@0 | see graph | ---  |
| 77 | 30 | 100 | 656000 | 3840.0  | DFT-s-OFDM BPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 656000 | 3840.0  | DFT-s-OFDM BPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 656000 | 3840.0  | DFT-s-OFDM QPSK | 1@0 | see graph | ---  |

|    |    |     |        |        |                 |     |           |      |
|----|----|-----|--------|--------|-----------------|-----|-----------|------|
| 77 | 30 | 100 | 656000 | 3840.0 | DFT-s-OFDM QPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 656000 | 3840.0 | DFT-s-OFDM QPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 662000 | 3930.0 | DFT-s-OFDM BPSK | 1@0 | see graph | ---  |
| 77 | 30 | 100 | 662000 | 3930.0 | DFT-s-OFDM BPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 662000 | 3930.0 | DFT-s-OFDM BPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 662000 | 3930.0 | DFT-s-OFDM QPSK | 1@0 | see graph | ---  |
| 77 | 30 | 100 | 662000 | 3930.0 | DFT-s-OFDM QPSK | 1@0 | see graph | PASS |
| 77 | 30 | 100 | 662000 | 3930.0 | DFT-s-OFDM QPSK | 1@0 | see graph | PASS |

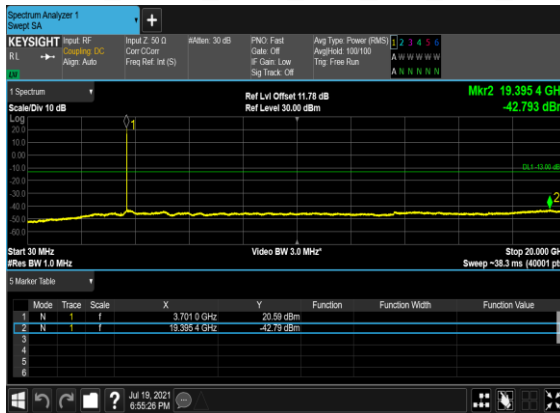
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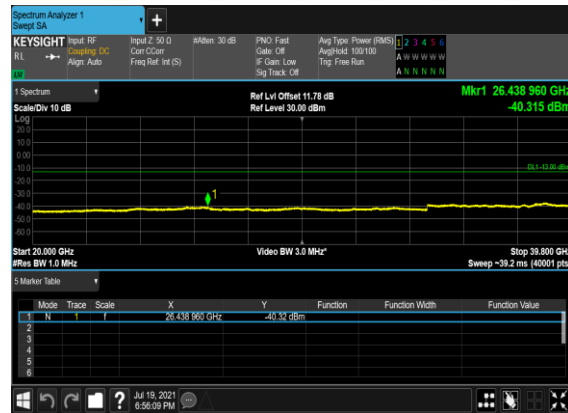
B2\_N77(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



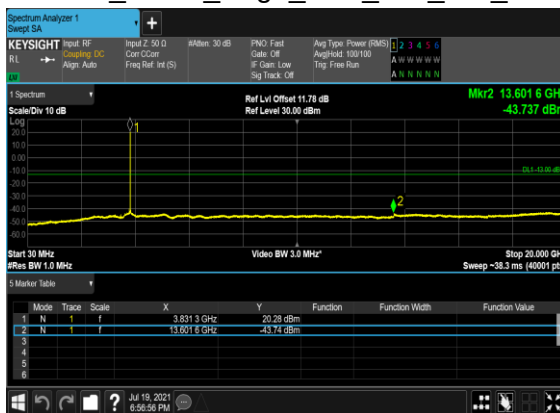
B2\_N77(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



B2\_N77(20M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



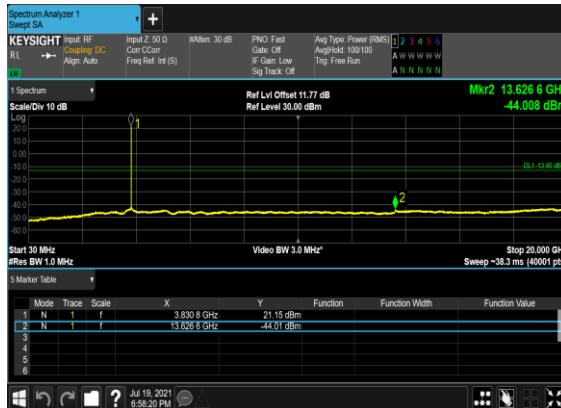
B2\_N77(20M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



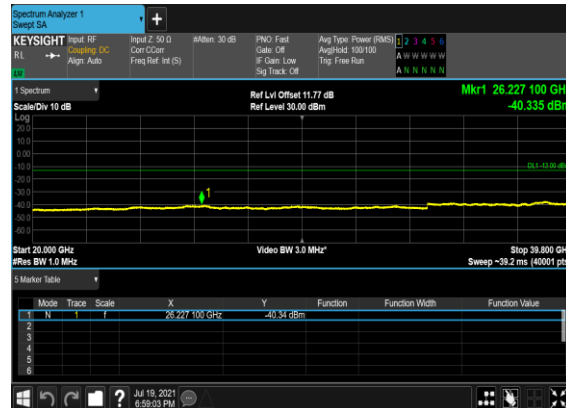
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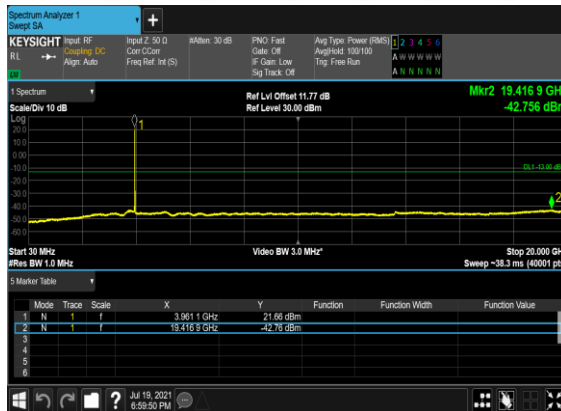
B2\_N77(20M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



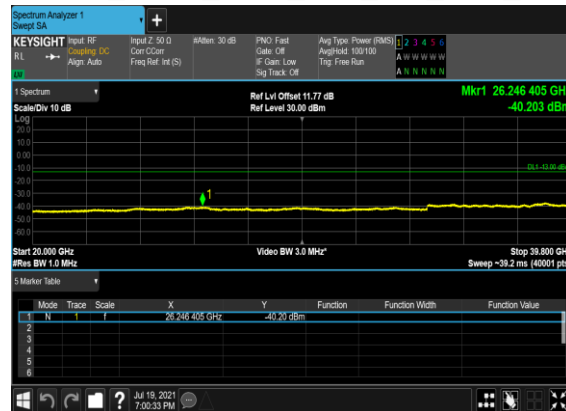
B2\_N77(20M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



B2\_N77(20M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



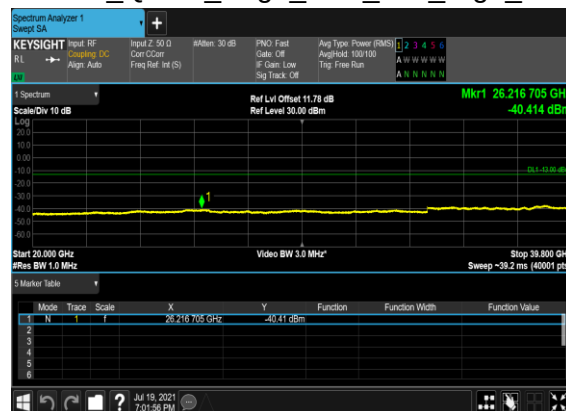
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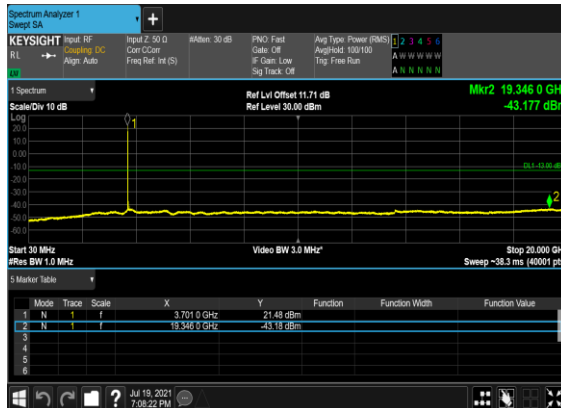
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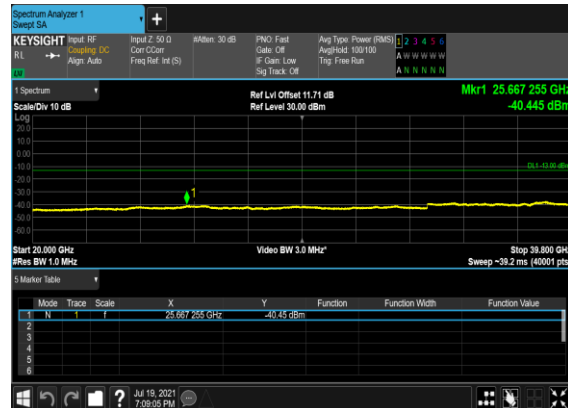
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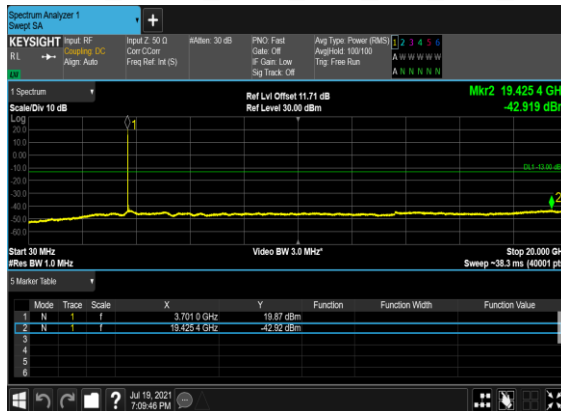
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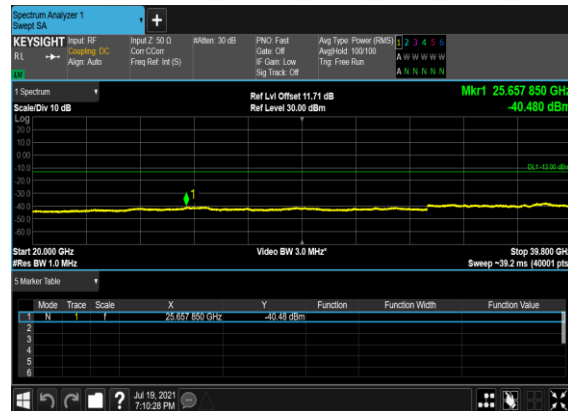
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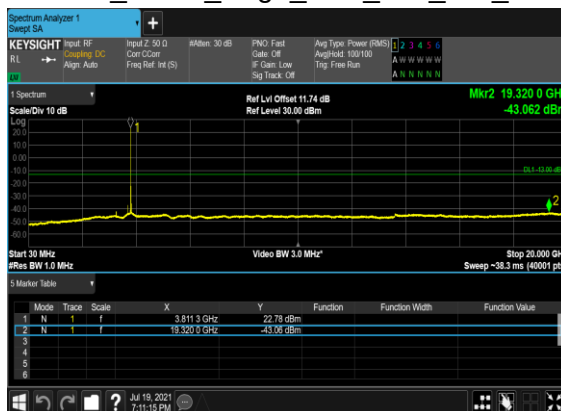
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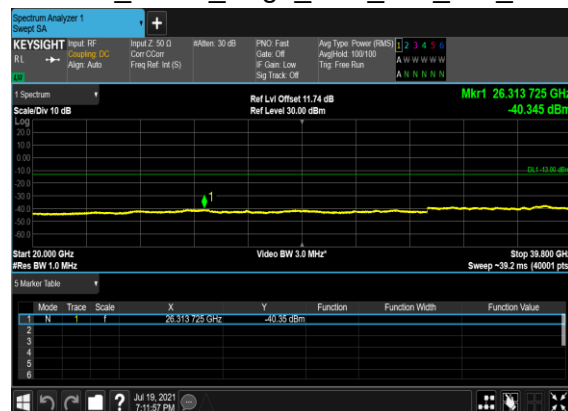
B2\_N77(60M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



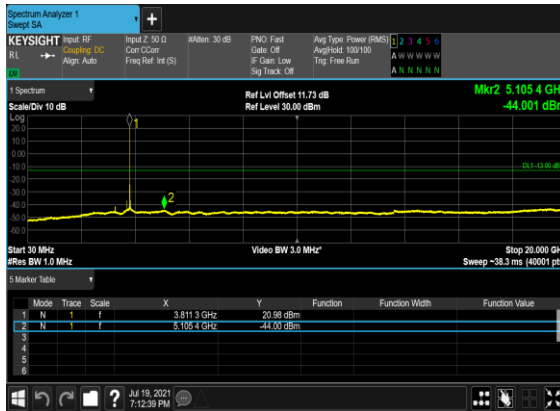
B2\_N77(60M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



B2\_N77(60M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



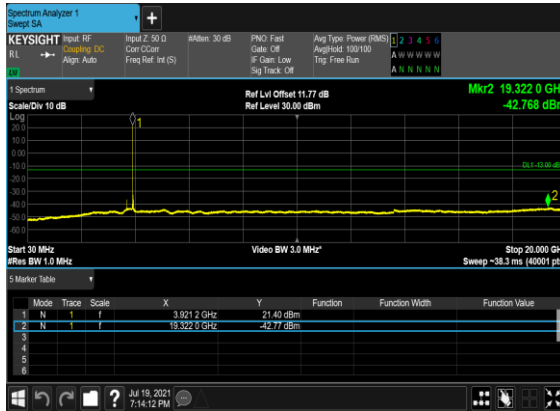
B2\_N77(60M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



B2\_N77(60M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



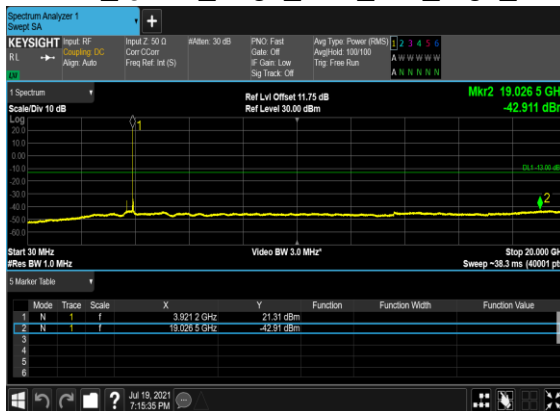
B2\_N77(60M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



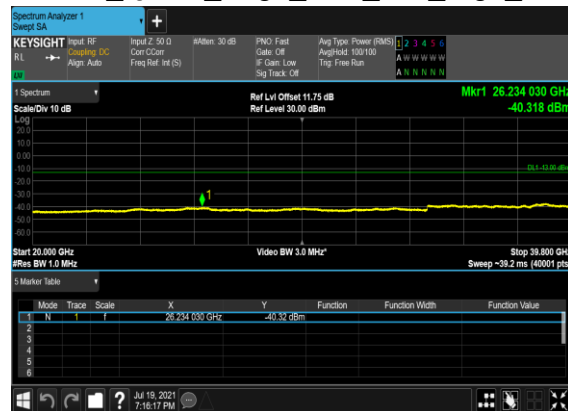
B2\_N77(60M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



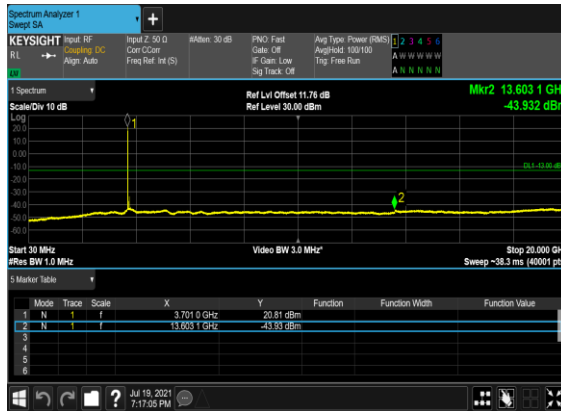
B2\_N77(60M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



B2\_N77(60M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



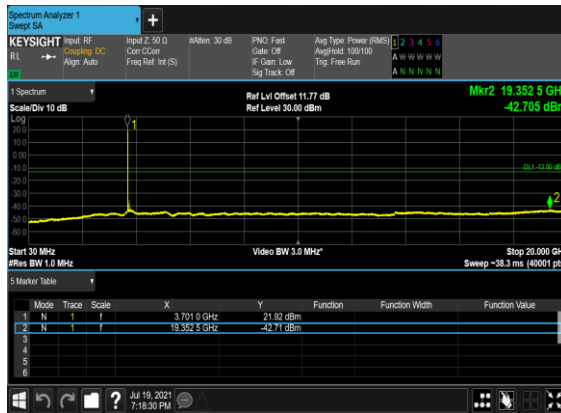
B2\_N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



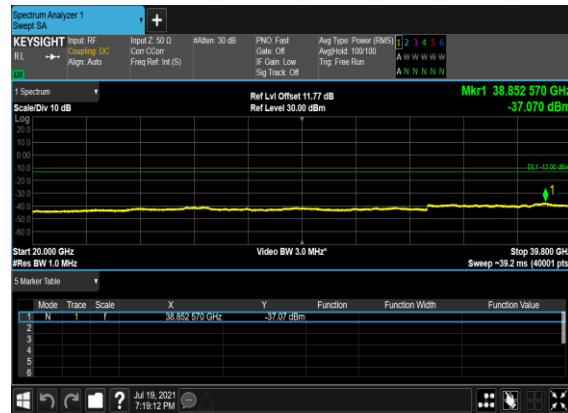
B2\_N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



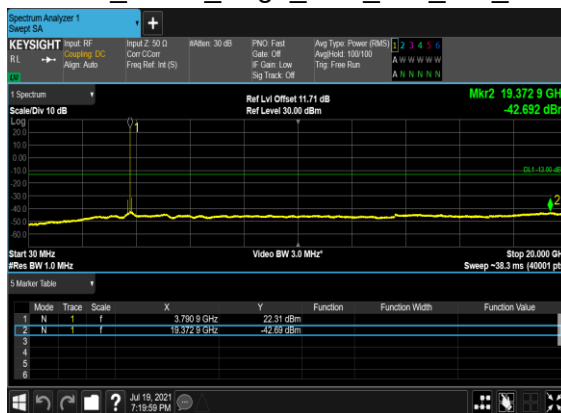
B2\_N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



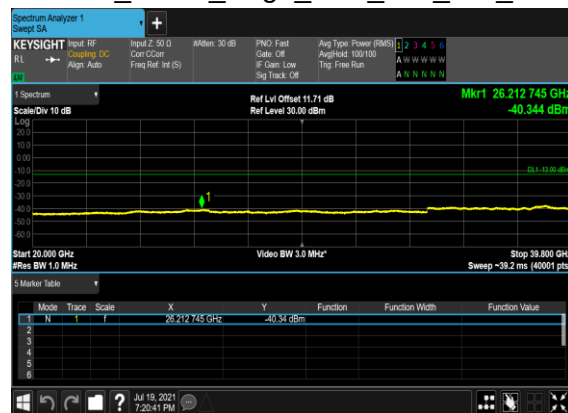
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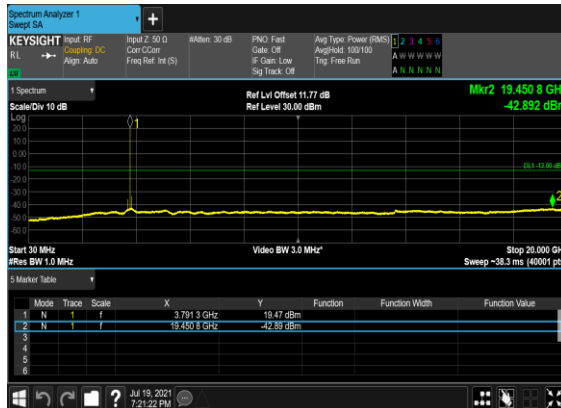
B2\_N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



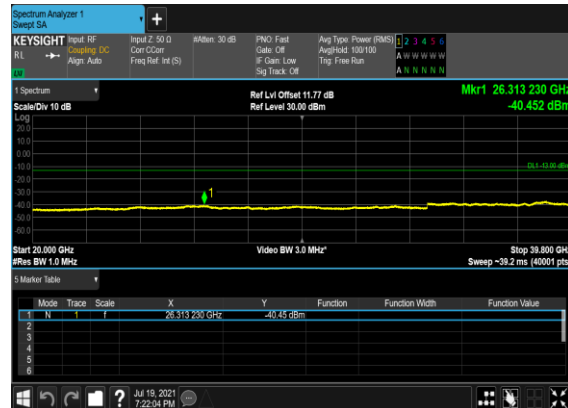
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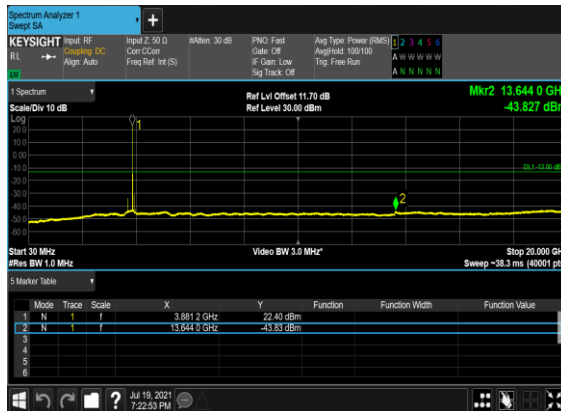
B2\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



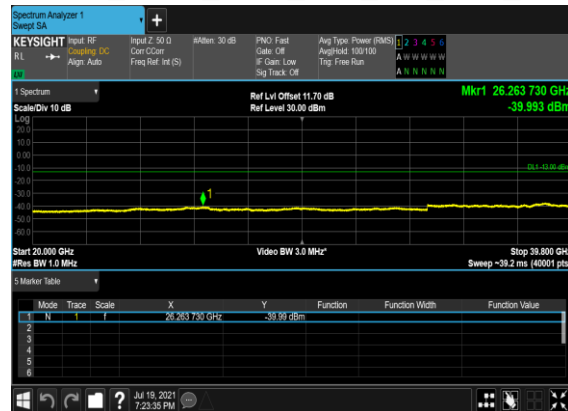
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OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



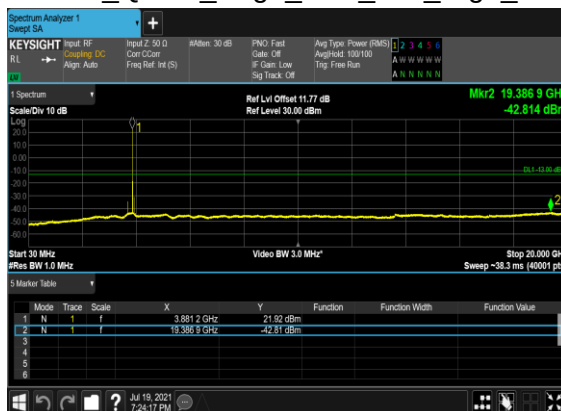
B2\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



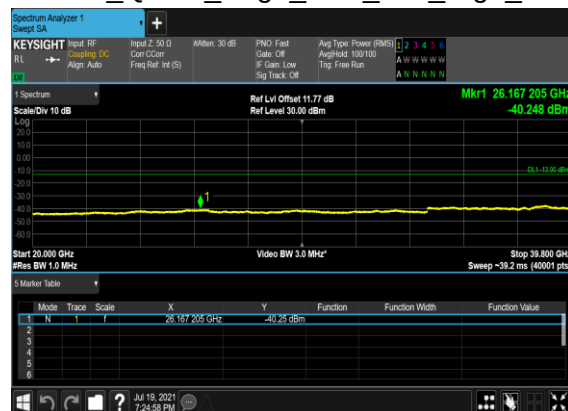
B2\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



B2\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



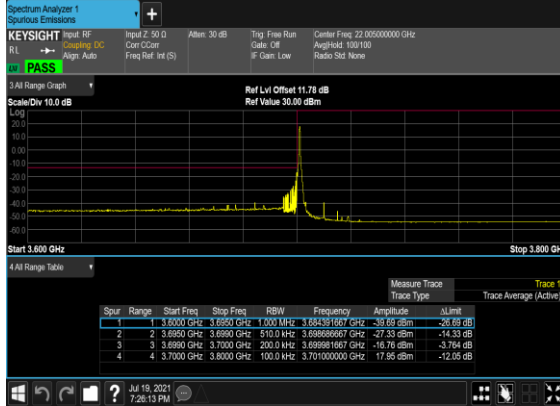
B2\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



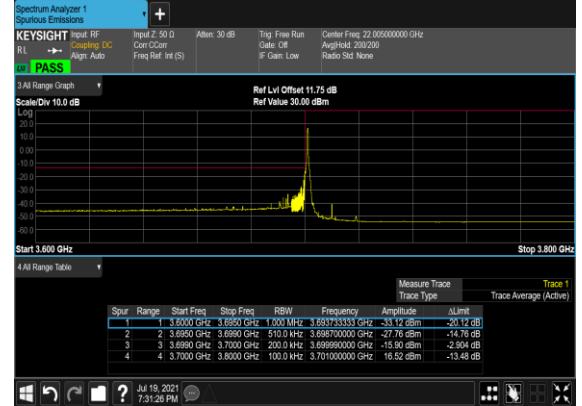
## Conducted Band Edge

| 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    |

B2\_N77(20M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



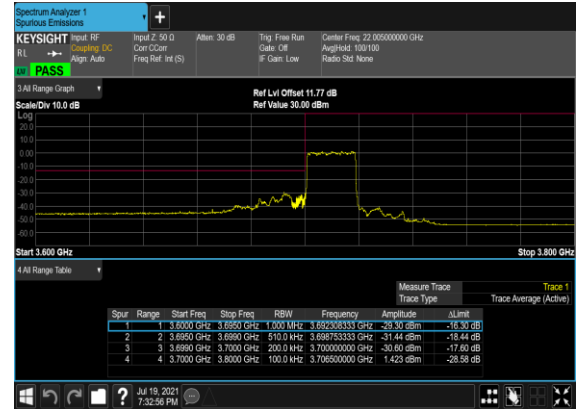
B2\_N77(20M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



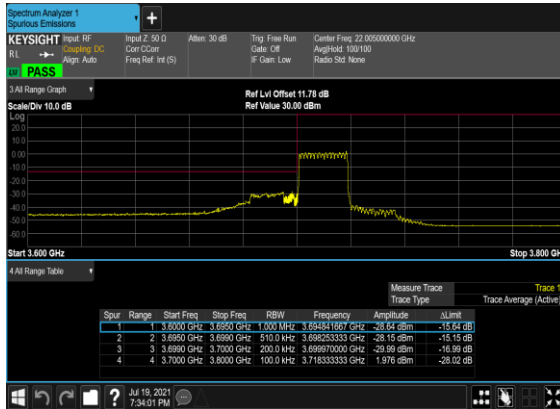
B2\_N77(20M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH\_CHP\_PASS



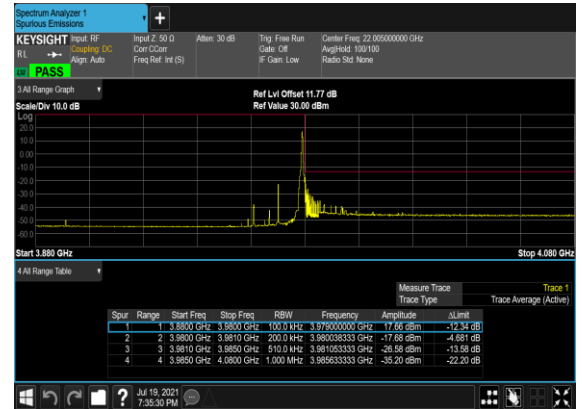
B2\_N77(20M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_Low\_CH



B2\_N77(20M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH



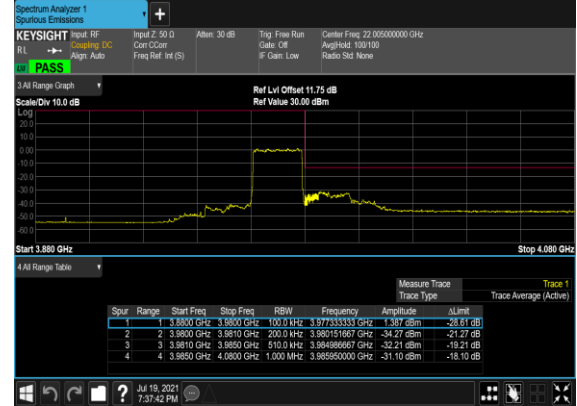
B2\_N77(20M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



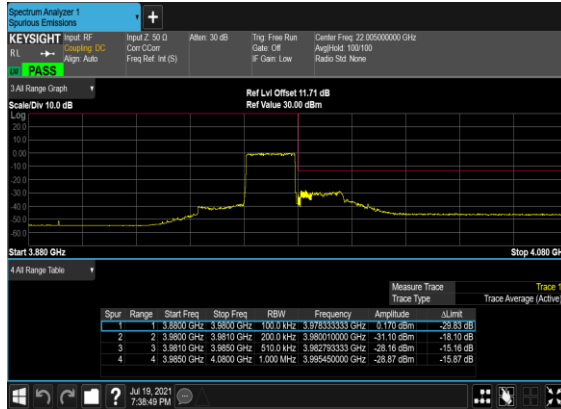
B2\_N77(20M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



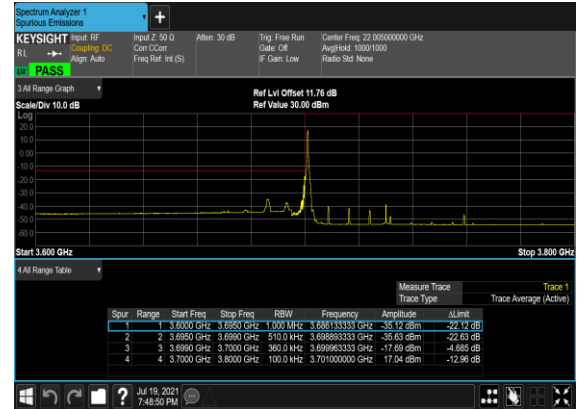
B2\_N77(20M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_High\_CH



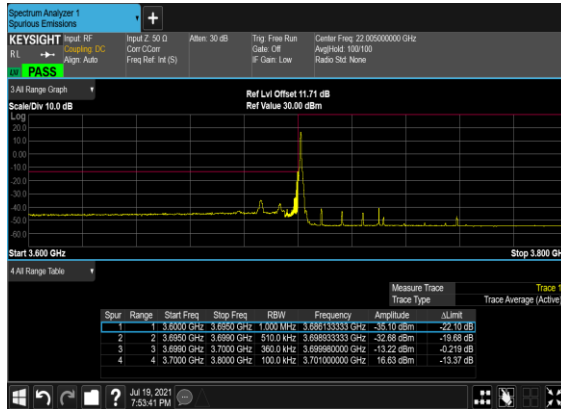
B2\_N77(20M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_High\_CH



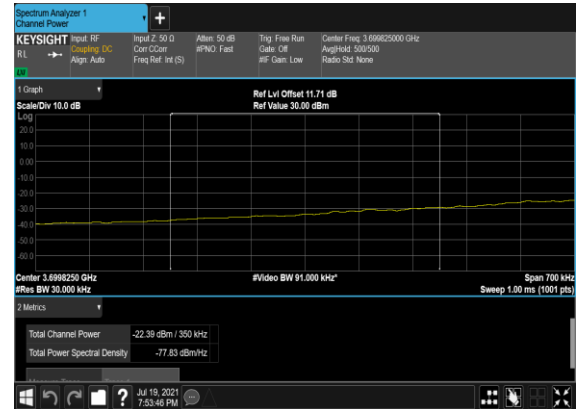
B2\_N77(60M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



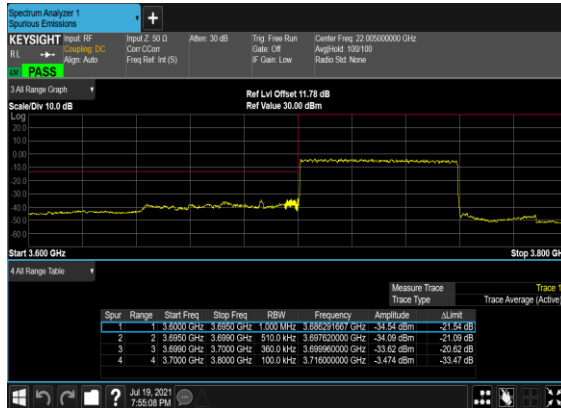
B2\_N77(60M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



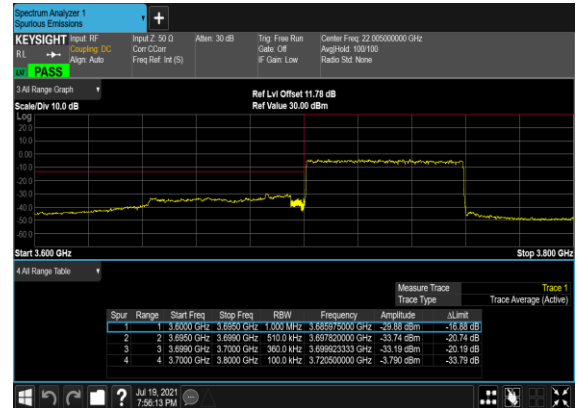
B2\_N77(60M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH\_CHP\_PASS



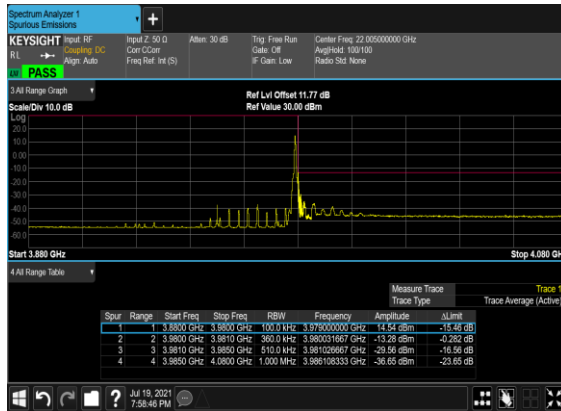
B2\_N77(60M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_Low\_CH



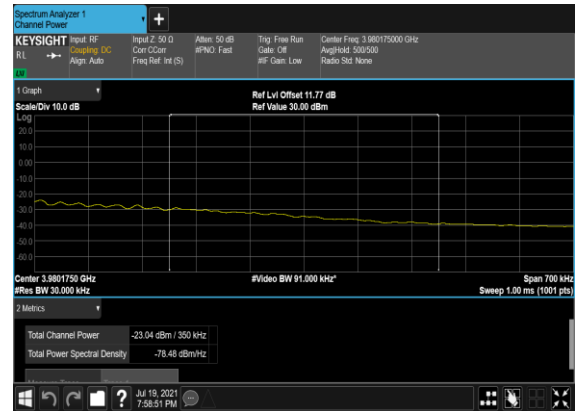
B2\_N77(60M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH



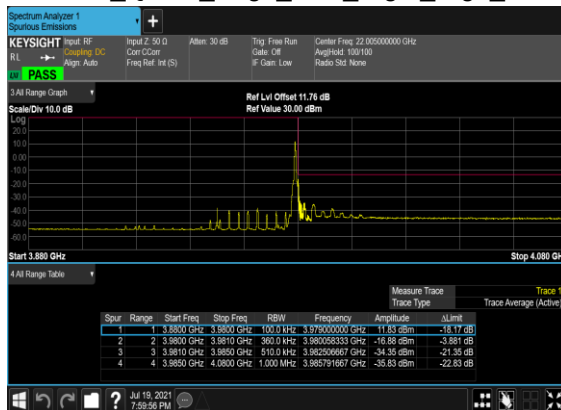
B2\_N77(60M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



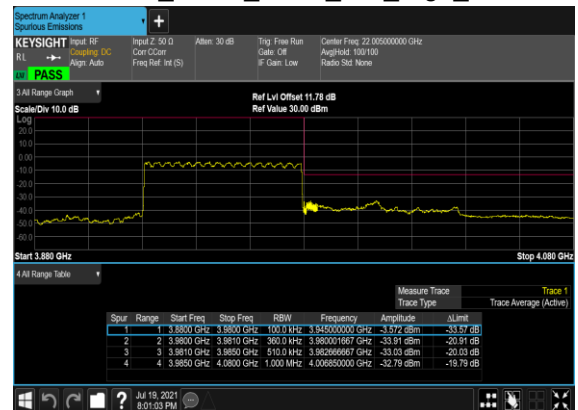
B2\_N77(60M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH\_CHP\_PASS



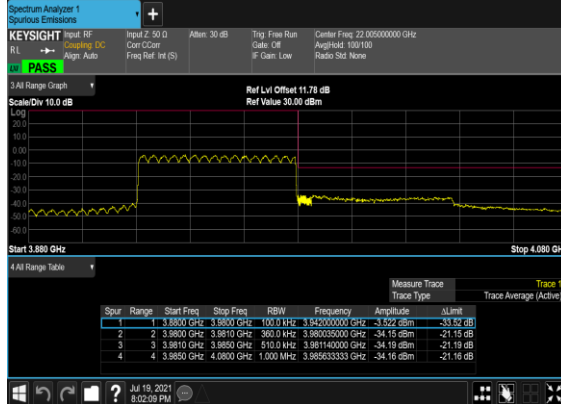
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OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



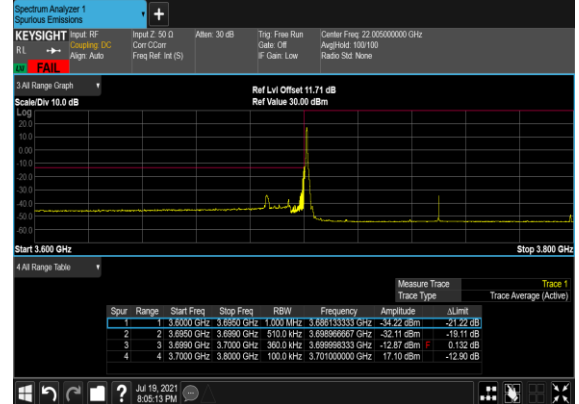
B2\_N77(60M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_High\_CH



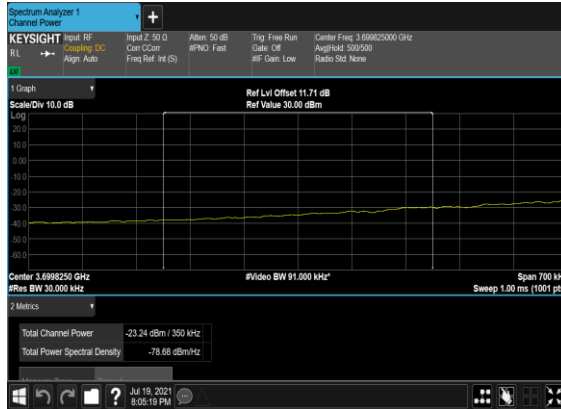
B2\_N77(60M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_High\_CH



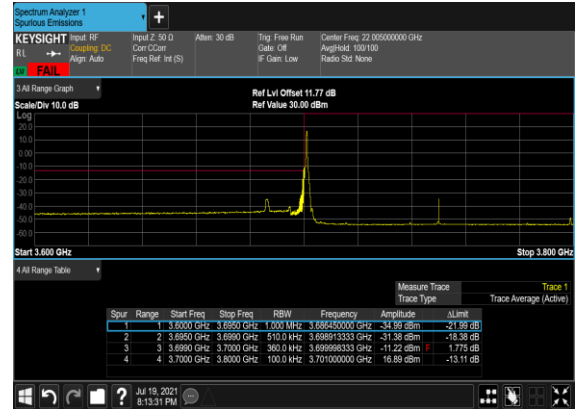
B2\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



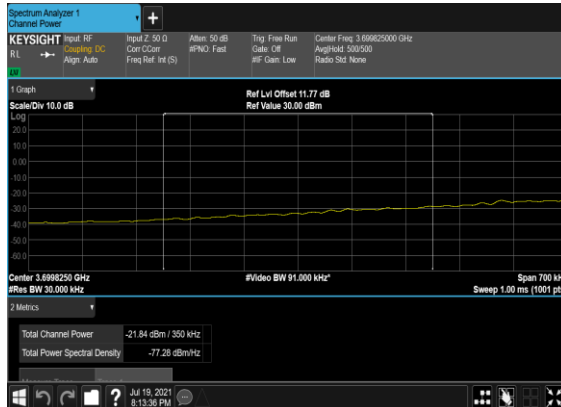
B2\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH\_CHP\_PASS



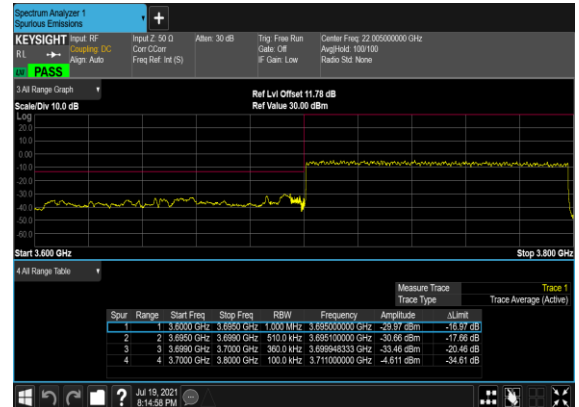
B2\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



B2\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH\_CHP\_PASS



B2\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_Low\_CH



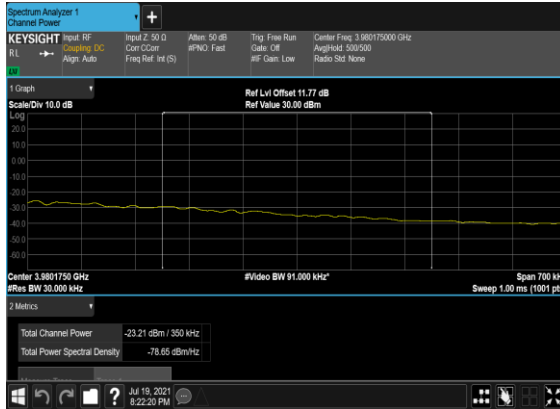
B2\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH



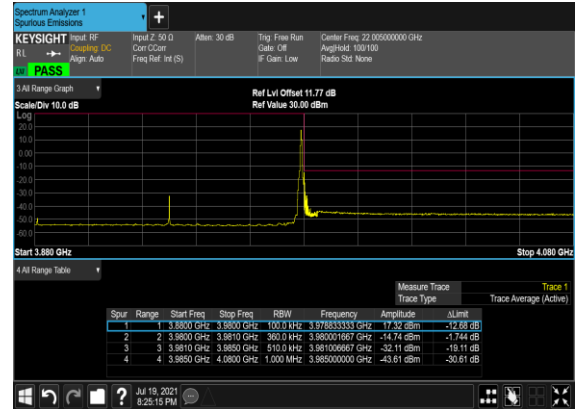
B2\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



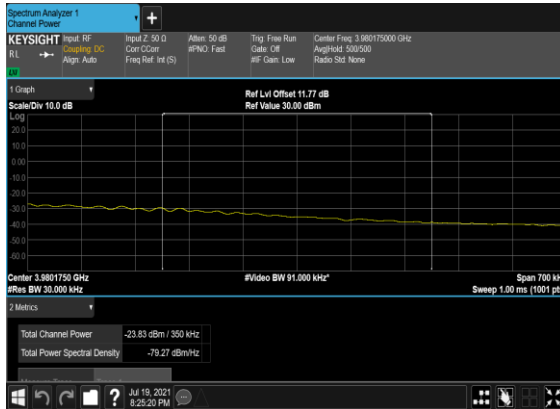
B2\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH\_CHP\_PASS



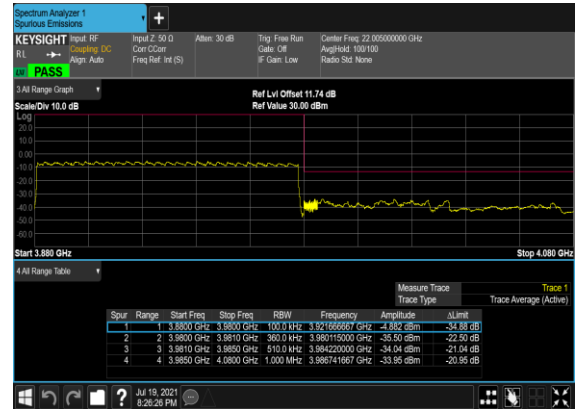
B2\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



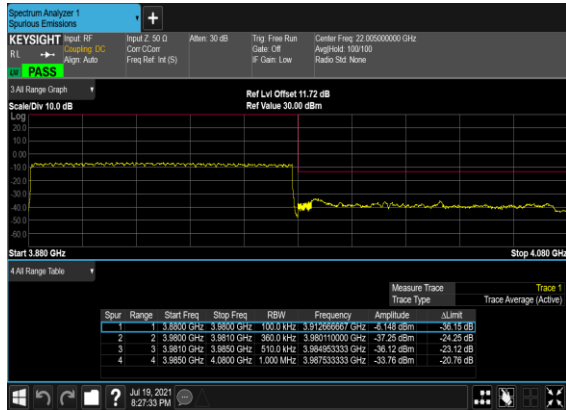
B2\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH\_CHP\_PASS



B2\_N77(100M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_High\_CH



B2\_N77(100M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_High\_CH



# FR1 N77

LTE Band: 5, LTE BW: 10M, LTE ARFCN: Mid

<Ant. 4>

Transmitter Conducted Output Power And EIRP, (GT - LC)=5.0dBi

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation           | RB     | Conducted Power(dBm) | EIRP (dBm) | EIRP (W) |
|---------|-----------|-----------------|--------|------------|----------------------|--------|----------------------|------------|----------|
| 77      | 30        | 100             | 650000 | 3750       | DFT-s-OFDM PI/2 BPSK | 135@67 | 23.42                | 28.42      | 0.6950   |
| 77      | 30        | 100             | 650000 | 3750       | DFT-s-OFDM PI/2 BPSK | 1@1    | 23.49                | 28.49      | 0.7063   |
| 77      | 30        | 100             | 650000 | 3750       | DFT-s-OFDM PI/2 BPSK | 1@271  | 23.66                | 28.66      | 0.7345   |
| 77      | 30        | 100             | 650000 | 3750       | DFT-s-OFDM QPSK      | 135@67 | 23.48                | 28.48      | 0.7047   |
| 77      | 30        | 100             | 650000 | 3750       | DFT-s-OFDM QPSK      | 1@1    | 23.66                | 28.66      | 0.7345   |
| 77      | 30        | 100             | 650000 | 3750       | DFT-s-OFDM QPSK      | 1@271  | 23.67                | 28.67      | 0.7362   |
| 77      | 30        | 100             | 650000 | 3750       | DFT-s-OFDM 16 QAM    | 135@67 | 22.53                | 27.53      | 0.5662   |
| 77      | 30        | 100             | 650000 | 3750       | DFT-s-OFDM 16 QAM    | 1@1    | 22.86                | 27.86      | 0.6109   |
| 77      | 30        | 100             | 650000 | 3750       | DFT-s-OFDM 16 QAM    | 1@271  | 22.93                | 27.93      | 0.6209   |
| 77      | 30        | 100             | 650000 | 3750       | DFT-s-OFDM 64 QAM    | 135@67 | 21.14                | 26.14      | 0.4111   |
| 77      | 30        | 100             | 650000 | 3750       | DFT-s-OFDM 64 QAM    | 1@1    | 21.07                | 26.07      | 0.4046   |
| 77      | 30        | 100             | 650000 | 3750       | DFT-s-OFDM 64 QAM    | 1@271  | 21.31                | 26.31      | 0.4276   |
| 77      | 30        | 100             | 650000 | 3750       | DFT-s-OFDM 256 QAM   | 135@67 | 19.12                | 24.12      | 0.2582   |
| 77      | 30        | 100             | 650000 | 3750       | DFT-s-OFDM 256 QAM   | 1@1    | 19.15                | 24.15      | 0.2600   |
| 77      | 30        | 100             | 650000 | 3750       | DFT-s-OFDM 256 QAM   | 1@271  | 19.35                | 24.35      | 0.2723   |
| 77      | 30        | 100             | 650000 | 3750       | CP-OFDM QPSK         | 137@68 | 22.13                | 27.13      | 0.5164   |
| 77      | 30        | 100             | 650000 | 3750       | CP-OFDM QPSK         | 1@1    | 22.26                | 27.26      | 0.5321   |
| 77      | 30        | 100             | 650000 | 3750       | CP-OFDM QPSK         | 1@271  | 22.31                | 27.31      | 0.5383   |
| 77      | 30        | 100             | 656000 | 3840       | DFT-s-OFDM PI/2      | 135@67 | 23.76                | 28.76      | 0.7516   |

|    |    |     |        |      |                      |        |       |       |        |  |
|----|----|-----|--------|------|----------------------|--------|-------|-------|--------|--|
|    |    |     |        |      | BPSK                 |        |       |       |        |  |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM PI/2 BPSK | 1@1    | 23.57 | 28.57 | 0.7194 |  |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM PI/2 BPSK | 1@271  | 23.64 | 28.64 | 0.7311 |  |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM QPSK      | 135@67 | 23.79 | 28.79 | 0.7568 |  |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM QPSK      | 1@1    | 23.64 | 28.64 | 0.7311 |  |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM QPSK      | 1@271  | 23.74 | 28.74 | 0.7482 |  |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM 16 QAM    | 135@67 | 23.02 | 28.02 | 0.6339 |  |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM 16 QAM    | 1@1    | 22.88 | 27.88 | 0.6138 |  |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM 16 QAM    | 1@271  | 22.91 | 27.91 | 0.6180 |  |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM 64 QAM    | 135@67 | 21.41 | 26.41 | 0.4375 |  |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM 64 QAM    | 1@1    | 21.21 | 26.21 | 0.4178 |  |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM 64 QAM    | 1@271  | 21.36 | 26.36 | 0.4325 |  |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM 256 QAM   | 135@67 | 19.49 | 24.49 | 0.2812 |  |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM 256 QAM   | 1@1    | 19.4  | 24.4  | 0.2754 |  |
| 77 | 30 | 100 | 656000 | 3840 | DFT-s-OFDM 256 QAM   | 1@271  | 19.59 | 24.59 | 0.2877 |  |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM QPSK         | 137@68 | 22.44 | 27.44 | 0.5546 |  |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM QPSK         | 1@1    | 22.33 | 27.33 | 0.5408 |  |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM QPSK         | 1@271  | 22.46 | 27.46 | 0.5572 |  |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM PI/2 BPSK | 135@67 | 23.73 | 28.73 | 0.7464 |  |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM PI/2 BPSK | 1@1    | 24.01 | 29.01 | 0.7962 |  |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM PI/2 BPSK | 1@271  | 22.97 | 27.97 | 0.6266 |  |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM QPSK      | 135@67 | 23.69 | 28.69 | 0.7396 |  |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM QPSK      | 1@1    | 24.12 | 29.12 | 0.8166 |  |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-OFDM QPSK      | 1@271  | 23.05 | 28.05 | 0.6383 |  |
| 77 | 30 | 100 | 662000 | 3930 | DFT-s-               | 135@67 | 22.82 | 27.82 | 0.6053 |  |

|           |    |     |        |      |                           |        |       |       |        |
|-----------|----|-----|--------|------|---------------------------|--------|-------|-------|--------|
|           |    |     |        |      | OFDM 16<br>QAM            |        |       |       |        |
| <b>77</b> | 30 | 100 | 662000 | 3930 | DFT-s-<br>OFDM 16<br>QAM  | 1@1    | 23.31 | 28.31 | 0.6776 |
| <b>77</b> | 30 | 100 | 662000 | 3930 | DFT-s-<br>OFDM 16<br>QAM  | 1@271  | 22.21 | 27.21 | 0.5260 |
| <b>77</b> | 30 | 100 | 662000 | 3930 | DFT-s-<br>OFDM 64<br>QAM  | 135@67 | 21.36 | 26.36 | 0.4325 |
| <b>77</b> | 30 | 100 | 662000 | 3930 | DFT-s-<br>OFDM 64<br>QAM  | 1@1    | 21.72 | 26.72 | 0.4699 |
| <b>77</b> | 30 | 100 | 662000 | 3930 | DFT-s-<br>OFDM 64<br>QAM  | 1@271  | 20.69 | 25.69 | 0.3707 |
| <b>77</b> | 30 | 100 | 662000 | 3930 | DFT-s-<br>OFDM 256<br>QAM | 135@67 | 19.41 | 24.41 | 0.2761 |
| <b>77</b> | 30 | 100 | 662000 | 3930 | DFT-s-<br>OFDM 256<br>QAM | 1@1    | 19.79 | 24.79 | 0.3013 |
| <b>77</b> | 30 | 100 | 662000 | 3930 | DFT-s-<br>OFDM 256<br>QAM | 1@271  | 18.77 | 23.77 | 0.2382 |
| <b>77</b> | 30 | 100 | 662000 | 3930 | CP-OFDM<br>QPSK           | 137@68 | 22.34 | 27.34 | 0.5420 |
| <b>77</b> | 30 | 100 | 662000 | 3930 | CP-OFDM<br>QPSK           | 1@1    | 22.76 | 27.76 | 0.5970 |
| <b>77</b> | 30 | 100 | 662000 | 3930 | CP-OFDM<br>QPSK           | 1@271  | 21.65 | 26.65 | 0.4624 |

# FR1 N77 UL MIMO

<Ant. 4+5>

Transmitter Conducted Output Power And EIRP, all transmit signals are completely uncorrelated with each other, so Directional gain=5.0dBi

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation      | RB    | Ant4 Power(dBm) | Ant5 Power(dBm) | Combine Power(dBm) | EIRP (dBm) | EIRP (W) |
|---------|-----------|-----------------|--------|------------|-----------------|-------|-----------------|-----------------|--------------------|------------|----------|
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM QPSK    | 25@12 | 20.22           | 18.98           | 22.65              | 27.65      | 0.5827   |
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM QPSK    | 1@1   | 20.37           | 19.21           | 22.84              | 27.84      | 0.6080   |
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM QPSK    | 1@49  | 20.1            | 18.84           | 22.53              | 27.53      | 0.5657   |
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM 16 QAM  | 25@12 | 19.76           | 18.49           | 22.18              | 27.18      | 0.5226   |
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM 16 QAM  | 1@1   | 19.74           | 18.72           | 22.27              | 27.27      | 0.5334   |
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM 16 QAM  | 1@49  | 19.62           | 18.36           | 22.05              | 27.05      | 0.5065   |
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM 64 QAM  | 25@12 | 18.34           | 16.95           | 20.71              | 25.71      | 0.3724   |
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM 64 QAM  | 1@1   | 18.2            | 17.05           | 20.67              | 25.67      | 0.3693   |
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM 64 QAM  | 1@49  | 18.07           | 17.12           | 20.63              | 25.63      | 0.3657   |
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM 256 QAM | 25@12 | 15.16           | 14.06           | 17.66              | 22.66      | 0.1843   |
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM 256 QAM | 1@1   | 15.39           | 14.46           | 17.96              | 22.96      | 0.1977   |
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM 256 QAM | 1@49  | 15.09           | 14.02           | 17.60              | 22.60      | 0.1819   |
| 77      | 30        | 20              | 656000 | 3840       | CP-OFDM QPSK    | 25@12 | 20.1            | 17.22           | 21.90              | 26.90      | 0.4903   |
| 77      | 30        | 20              | 656000 | 3840       | CP-OFDM QPSK    | 1@1   | 20.59           | 17.63           | 22.37              | 27.37      | 0.5455   |
| 77      | 30        | 20              | 656000 | 3840       | CP-OFDM QPSK    | 1@49  | 20.29           | 17.39           | 22.09              | 27.09      | 0.5114   |
| 77      | 30        | 20              | 656000 | 3840       | CP-OFDM 16 QAM  | 25@12 | 19.72           | 16.78           | 21.50              | 26.50      | 0.4471   |
| 77      | 30        | 20              | 656000 | 3840       | CP-OFDM 16 QAM  | 1@1   | 19.85           | 16.86           | 21.62              | 26.62      | 0.4590   |
| 77      | 30        | 20              | 656000 | 3840       | CP-OFDM 16 QAM  | 1@49  | 20.01           | 16.95           | 21.75              | 26.75      | 0.4736   |
| 77      | 30        | 20              | 656000 | 3840       | CP-OFDM 64 QAM  | 25@12 | 18.27           | 15.28           | 20.04              | 25.04      | 0.3190   |
| 77      | 30        | 20              | 656000 | 3840       | CP-OFDM 64 QAM  | 1@1   | 18.21           | 15.73           | 20.15              | 25.15      | 0.3277   |
| 77      | 30        | 20              | 656000 | 3840       | CP-OFDM 64 QAM  | 1@49  | 18.2            | 15.59           | 20.10              | 25.10      | 0.3235   |
| 77      | 30        | 20              | 656000 | 3840       | CP-OFDM 256 QAM | 25@12 | 15.29           | 12.43           | 17.10              | 22.10      | 0.1622   |
| 77      | 30        | 20              | 656000 | 3840       | CP-OFDM 256 QAM | 1@1   | 15.32           | 12.44           | 17.12              | 22.12      | 0.1631   |
| 77      | 30        | 20              | 656000 | 3840       | CP-OFDM 256 QAM | 1@49  | 15.4            | 12.55           | 17.22              | 22.22      | 0.1665   |
| 77      | 30        | 20              | 664666 | 3969.99    | CP-OFDM QPSK    | 25@12 | 19.83           | 17.94           | 22.00              | 27.00      | 0.5009   |
| 77      | 30        | 20              | 664666 | 3969.99    | CP-OFDM QPSK    | 1@1   | 20.19           | 18.02           | 22.25              | 27.25      | 0.5308   |
| 77      | 30        | 20              | 664666 | 3969.99    | CP-OFDM QPSK    | 1@49  | 20.11           | 18.28           | 22.30              | 27.30      | 0.5372   |

|    |    |    |        |         |                    |       |       |       |       |       |        |
|----|----|----|--------|---------|--------------------|-------|-------|-------|-------|-------|--------|
| 77 | 30 | 20 | 664666 | 3969.99 | CP-OFDM<br>16 QAM  | 25@12 | 19.42 | 17.52 | 21.58 | 26.58 | 0.4553 |
| 77 | 30 | 20 | 664666 | 3969.99 | CP-OFDM<br>16 QAM  | 1@1   | 19.62 | 17.6  | 21.74 | 26.74 | 0.4717 |
| 77 | 30 | 20 | 664666 | 3969.99 | CP-OFDM<br>16 QAM  | 1@49  | 19.71 | 17.83 | 21.88 | 26.88 | 0.4877 |
| 77 | 30 | 20 | 664666 | 3969.99 | CP-OFDM<br>64 QAM  | 25@12 | 17.93 | 16.01 | 20.09 | 25.09 | 0.3225 |
| 77 | 30 | 20 | 664666 | 3969.99 | CP-OFDM<br>64 QAM  | 1@1   | 18.04 | 16.19 | 20.22 | 25.22 | 0.3329 |
| 77 | 30 | 20 | 664666 | 3969.99 | CP-OFDM<br>64 QAM  | 1@49  | 18.08 | 16.66 | 20.44 | 25.44 | 0.3498 |
| 77 | 30 | 20 | 664666 | 3969.99 | CP-OFDM<br>256 QAM | 25@12 | 14.98 | 12.91 | 17.08 | 22.08 | 0.1613 |
| 77 | 30 | 20 | 664666 | 3969.99 | CP-OFDM<br>256 QAM | 1@1   | 15.25 | 12.83 | 17.22 | 22.22 | 0.1666 |
| 77 | 30 | 20 | 664666 | 3969.99 | CP-OFDM<br>256 QAM | 1@49  | 15.14 | 13.09 | 17.25 | 22.25 | 0.1677 |
| 77 | 30 | 40 | 648000 | 3720    | CP-OFDM<br>QPSK    | 50@25 | 20.06 | 19    | 22.57 | 27.57 | 0.5718 |
| 77 | 30 | 40 | 648000 | 3720    | CP-OFDM<br>QPSK    | 1@1   | 20.55 | 19.41 | 23.03 | 28.03 | 0.6350 |
| 77 | 30 | 40 | 648000 | 3720    | CP-OFDM<br>QPSK    | 1@104 | 20.43 | 18.97 | 22.77 | 27.77 | 0.5986 |
| 77 | 30 | 40 | 648000 | 3720    | CP-OFDM<br>16 QAM  | 50@25 | 19.82 | 18.6  | 22.26 | 27.26 | 0.5325 |
| 77 | 30 | 40 | 648000 | 3720    | CP-OFDM<br>16 QAM  | 1@1   | 20.03 | 18.96 | 22.54 | 27.54 | 0.5673 |
| 77 | 30 | 40 | 648000 | 3720    | CP-OFDM<br>16 QAM  | 1@104 | 19.81 | 18.52 | 22.22 | 27.22 | 0.5276 |
| 77 | 30 | 40 | 648000 | 3720    | CP-OFDM<br>64 QAM  | 50@25 | 18.33 | 17.03 | 20.74 | 25.74 | 0.3749 |
| 77 | 30 | 40 | 648000 | 3720    | CP-OFDM<br>64 QAM  | 1@1   | 18.32 | 17.48 | 20.93 | 25.93 | 0.3918 |
| 77 | 30 | 40 | 648000 | 3720    | CP-OFDM<br>64 QAM  | 1@104 | 18.3  | 17.03 | 20.72 | 25.72 | 0.3734 |
| 77 | 30 | 40 | 648000 | 3720    | CP-OFDM<br>256 QAM | 50@25 | 15.3  | 14.05 | 17.73 | 22.73 | 0.1875 |
| 77 | 30 | 40 | 648000 | 3720    | CP-OFDM<br>256 QAM | 1@1   | 15.21 | 14.45 | 17.86 | 22.86 | 0.1931 |
| 77 | 30 | 40 | 648000 | 3720    | CP-OFDM<br>256 QAM | 1@104 | 15.37 | 13.75 | 17.65 | 22.65 | 0.1839 |
| 77 | 30 | 40 | 656000 | 3840    | CP-OFDM<br>QPSK    | 50@25 | 20.44 | 17.39 | 22.19 | 27.19 | 0.5233 |
| 77 | 30 | 40 | 656000 | 3840    | CP-OFDM<br>QPSK    | 1@1   | 20.68 | 17.94 | 22.53 | 27.53 | 0.5666 |
| 77 | 30 | 40 | 656000 | 3840    | CP-OFDM<br>QPSK    | 1@104 | 20.61 | 17.42 | 22.31 | 27.31 | 0.5385 |
| 77 | 30 | 40 | 656000 | 3840    | CP-OFDM<br>16 QAM  | 50@25 | 19.95 | 16.98 | 21.72 | 26.72 | 0.4704 |
| 77 | 30 | 40 | 656000 | 3840    | CP-OFDM<br>16 QAM  | 1@1   | 19.97 | 17.37 | 21.87 | 26.87 | 0.4866 |
| 77 | 30 | 40 | 656000 | 3840    | CP-OFDM<br>16 QAM  | 1@104 | 20.21 | 17.12 | 21.94 | 26.94 | 0.4948 |
| 77 | 30 | 40 | 656000 | 3840    | CP-OFDM<br>64 QAM  | 50@25 | 18.45 | 15.45 | 20.21 | 25.21 | 0.3322 |
| 77 | 30 | 40 | 656000 | 3840    | CP-OFDM<br>64 QAM  | 1@1   | 18.58 | 15.98 | 20.48 | 25.48 | 0.3533 |
| 77 | 30 | 40 | 656000 | 3840    | CP-OFDM<br>64 QAM  | 1@104 | 18.34 | 15.55 | 20.18 | 25.18 | 0.3293 |
| 77 | 30 | 40 | 656000 | 3840    | CP-OFDM<br>256 QAM | 50@25 | 15.53 | 12.46 | 17.27 | 22.27 | 0.1687 |
| 77 | 30 | 40 | 656000 | 3840    | CP-OFDM<br>256 QAM | 1@1   | 15.34 | 13.03 | 17.35 | 22.35 | 0.1717 |
| 77 | 30 | 40 | 656000 | 3840    | CP-OFDM<br>256 QAM | 1@104 | 15.41 | 12.61 | 17.24 | 22.24 | 0.1676 |
| 77 | 30 | 40 | 664000 | 3960    | CP-OFDM<br>QPSK    | 50@25 | 20.2  | 18.11 | 22.29 | 27.29 | 0.5358 |

|    |    |    |        |         |                    |       |       |       |       |       |        |
|----|----|----|--------|---------|--------------------|-------|-------|-------|-------|-------|--------|
| 77 | 30 | 40 | 664000 | 3960    | CP-OFDM<br>QPSK    | 1@1   | 20.66 | 18.31 | 22.65 | 27.65 | 0.5824 |
| 77 | 30 | 40 | 664000 | 3960    | CP-OFDM<br>QPSK    | 1@104 | 20.37 | 18.69 | 22.62 | 27.62 | 0.5782 |
| 77 | 30 | 40 | 664000 | 3960    | CP-OFDM<br>16 QAM  | 50@25 | 19.74 | 17.52 | 21.78 | 26.78 | 0.4765 |
| 77 | 30 | 40 | 664000 | 3960    | CP-OFDM<br>16 QAM  | 1@1   | 19.78 | 17.74 | 21.89 | 26.89 | 0.4885 |
| 77 | 30 | 40 | 664000 | 3960    | CP-OFDM<br>16 QAM  | 1@104 | 19.85 | 18.08 | 22.06 | 27.06 | 0.5087 |
| 77 | 30 | 40 | 664000 | 3960    | CP-OFDM<br>64 QAM  | 50@25 | 18.22 | 16.04 | 20.28 | 25.28 | 0.3370 |
| 77 | 30 | 40 | 664000 | 3960    | CP-OFDM<br>64 QAM  | 1@1   | 18.44 | 16.18 | 20.47 | 25.47 | 0.3520 |
| 77 | 30 | 40 | 664000 | 3960    | CP-OFDM<br>64 QAM  | 1@104 | 18.07 | 16.73 | 20.46 | 25.46 | 0.3517 |
| 77 | 30 | 40 | 664000 | 3960    | CP-OFDM<br>256 QAM | 50@25 | 15.27 | 13.04 | 17.31 | 22.31 | 0.1701 |
| 77 | 30 | 40 | 664000 | 3960    | CP-OFDM<br>256 QAM | 1@1   | 15.49 | 12.94 | 17.41 | 22.41 | 0.1742 |
| 77 | 30 | 40 | 664000 | 3960    | CP-OFDM<br>256 QAM | 1@104 | 15.15 | 13.48 | 17.41 | 22.41 | 0.1740 |
| 77 | 30 | 50 | 648334 | 3725.01 | CP-OFDM<br>QPSK    | 64@32 | 20.22 | 18.82 | 22.59 | 27.59 | 0.5737 |
| 77 | 30 | 50 | 648334 | 3725.01 | CP-OFDM<br>QPSK    | 1@1   | 20.41 | 19.17 | 22.84 | 27.84 | 0.6088 |
| 77 | 30 | 50 | 648334 | 3725.01 | CP-OFDM<br>QPSK    | 1@131 | 20.25 | 18.33 | 22.41 | 27.41 | 0.5502 |
| 77 | 30 | 50 | 648334 | 3725.01 | CP-OFDM<br>16 QAM  | 64@32 | 19.77 | 18.36 | 22.13 | 27.13 | 0.5167 |
| 77 | 30 | 50 | 648334 | 3725.01 | CP-OFDM<br>16 QAM  | 1@1   | 19.56 | 18.66 | 22.14 | 27.14 | 0.5180 |
| 77 | 30 | 50 | 648334 | 3725.01 | CP-OFDM<br>16 QAM  | 1@131 | 19.87 | 17.88 | 22.00 | 27.00 | 0.5010 |
| 77 | 30 | 50 | 648334 | 3725.01 | CP-OFDM<br>64 QAM  | 64@32 | 18.27 | 16.71 | 20.57 | 25.57 | 0.3606 |
| 77 | 30 | 50 | 648334 | 3725.01 | CP-OFDM<br>64 QAM  | 1@1   | 18.23 | 17.22 | 20.76 | 25.76 | 0.3771 |
| 77 | 30 | 50 | 648334 | 3725.01 | CP-OFDM<br>64 QAM  | 1@131 | 18.12 | 16.46 | 20.38 | 25.38 | 0.3451 |
| 77 | 30 | 50 | 648334 | 3725.01 | CP-OFDM<br>256 QAM | 64@32 | 15.12 | 13.79 | 17.52 | 22.52 | 0.1785 |
| 77 | 30 | 50 | 648334 | 3725.01 | CP-OFDM<br>256 QAM | 1@1   | 15.22 | 14.09 | 17.70 | 22.70 | 0.1863 |
| 77 | 30 | 50 | 648334 | 3725.01 | CP-OFDM<br>256 QAM | 1@131 | 15.24 | 13.36 | 17.41 | 22.41 | 0.1742 |
| 77 | 30 | 50 | 656000 | 3840    | CP-OFDM<br>QPSK    | 64@32 | 20.65 | 17.59 | 22.39 | 27.39 | 0.5488 |
| 77 | 30 | 50 | 656000 | 3840    | CP-OFDM<br>QPSK    | 1@1   | 20.84 | 17.96 | 22.64 | 27.64 | 0.5814 |
| 77 | 30 | 50 | 656000 | 3840    | CP-OFDM<br>QPSK    | 1@131 | 20.54 | 17.36 | 22.25 | 27.25 | 0.5303 |
| 77 | 30 | 50 | 656000 | 3840    | CP-OFDM<br>16 QAM  | 64@32 | 20.21 | 17.06 | 21.92 | 26.92 | 0.4926 |
| 77 | 30 | 50 | 656000 | 3840    | CP-OFDM<br>16 QAM  | 1@1   | 20.19 | 17.43 | 22.04 | 27.04 | 0.5054 |
| 77 | 30 | 50 | 656000 | 3840    | CP-OFDM<br>16 QAM  | 1@131 | 19.85 | 16.8  | 21.60 | 26.60 | 0.4568 |
| 77 | 30 | 50 | 656000 | 3840    | CP-OFDM<br>64 QAM  | 64@32 | 18.69 | 15.59 | 20.42 | 25.42 | 0.3484 |
| 77 | 30 | 50 | 656000 | 3840    | CP-OFDM<br>64 QAM  | 1@1   | 18.41 | 15.98 | 20.37 | 25.37 | 0.3446 |
| 77 | 30 | 50 | 656000 | 3840    | CP-OFDM<br>64 QAM  | 1@131 | 18.23 | 15.64 | 20.14 | 25.14 | 0.3263 |
| 77 | 30 | 50 | 656000 | 3840    | CP-OFDM<br>256 QAM | 64@32 | 15.63 | 12.57 | 17.37 | 22.37 | 0.1728 |
| 77 | 30 | 50 | 656000 | 3840    | CP-OFDM<br>256 QAM | 1@1   | 15.42 | 12.98 | 17.38 | 22.38 | 0.1730 |

|    |    |    |        |         |                    |       |       |       |       |       |        |
|----|----|----|--------|---------|--------------------|-------|-------|-------|-------|-------|--------|
| 77 | 30 | 50 | 656000 | 3840    | CP-OFDM<br>256 QAM | 1@131 | 15.44 | 12.52 | 17.23 | 22.23 | 0.1672 |
| 77 | 30 | 50 | 663666 | 3954.99 | CP-OFDM<br>QPSK    | 64@32 | 20.21 | 18.04 | 22.27 | 27.27 | 0.5333 |
| 77 | 30 | 50 | 663666 | 3954.99 | CP-OFDM<br>QPSK    | 1@1   | 20.8  | 18.32 | 22.74 | 27.74 | 0.5950 |
| 77 | 30 | 50 | 663666 | 3954.99 | CP-OFDM<br>QPSK    | 1@131 | 20.3  | 18.43 | 22.48 | 27.48 | 0.5591 |
| 77 | 30 | 50 | 663666 | 3954.99 | CP-OFDM<br>16 QAM  | 64@32 | 19.77 | 17.54 | 21.81 | 26.81 | 0.4794 |
| 77 | 30 | 50 | 663666 | 3954.99 | CP-OFDM<br>16 QAM  | 1@1   | 20.08 | 17.68 | 22.05 | 27.05 | 0.5075 |
| 77 | 30 | 50 | 663666 | 3954.99 | CP-OFDM<br>16 QAM  | 1@131 | 19.73 | 17.69 | 21.84 | 26.84 | 0.4829 |
| 77 | 30 | 50 | 663666 | 3954.99 | CP-OFDM<br>64 QAM  | 64@32 | 18.33 | 16.12 | 20.37 | 25.37 | 0.3447 |
| 77 | 30 | 50 | 663666 | 3954.99 | CP-OFDM<br>64 QAM  | 1@1   | 18.41 | 16.29 | 20.49 | 25.49 | 0.3539 |
| 77 | 30 | 50 | 663666 | 3954.99 | CP-OFDM<br>64 QAM  | 1@131 | 18.03 | 16.55 | 20.36 | 25.36 | 0.3438 |
| 77 | 30 | 50 | 663666 | 3954.99 | CP-OFDM<br>256 QAM | 64@32 | 15.15 | 12.73 | 17.12 | 22.12 | 0.1628 |
| 77 | 30 | 50 | 663666 | 3954.99 | CP-OFDM<br>256 QAM | 1@1   | 15.36 | 12.61 | 17.21 | 22.21 | 0.1663 |
| 77 | 30 | 50 | 663666 | 3954.99 | CP-OFDM<br>256 QAM | 1@131 | 14.91 | 13.12 | 17.12 | 22.12 | 0.1628 |
| 77 | 30 | 60 | 648668 | 3730.02 | CP-OFDM<br>QPSK    | 81@40 | 20.19 | 18.87 | 22.59 | 27.59 | 0.5742 |
| 77 | 30 | 60 | 648668 | 3730.02 | CP-OFDM<br>QPSK    | 1@1   | 20.48 | 19.49 | 23.02 | 28.02 | 0.6344 |
| 77 | 30 | 60 | 648668 | 3730.02 | CP-OFDM<br>QPSK    | 1@160 | 20.38 | 18.45 | 22.53 | 27.53 | 0.5665 |
| 77 | 30 | 60 | 648668 | 3730.02 | CP-OFDM<br>16 QAM  | 81@40 | 19.78 | 18.42 | 22.16 | 27.16 | 0.5204 |
| 77 | 30 | 60 | 648668 | 3730.02 | CP-OFDM<br>16 QAM  | 1@1   | 19.78 | 18.87 | 22.36 | 27.36 | 0.5444 |
| 77 | 30 | 60 | 648668 | 3730.02 | CP-OFDM<br>16 QAM  | 1@160 | 19.67 | 17.92 | 21.89 | 26.89 | 0.4890 |
| 77 | 30 | 60 | 648668 | 3730.02 | CP-OFDM<br>64 QAM  | 81@40 | 18.25 | 16.89 | 20.63 | 25.63 | 0.3659 |
| 77 | 30 | 60 | 648668 | 3730.02 | CP-OFDM<br>64 QAM  | 1@1   | 18.05 | 17.54 | 20.81 | 25.81 | 0.3813 |
| 77 | 30 | 60 | 648668 | 3730.02 | CP-OFDM<br>64 QAM  | 1@160 | 18.22 | 16.86 | 20.60 | 25.60 | 0.3634 |
| 77 | 30 | 60 | 648668 | 3730.02 | CP-OFDM<br>256 QAM | 81@40 | 15.23 | 13.79 | 17.58 | 22.58 | 0.1811 |
| 77 | 30 | 60 | 648668 | 3730.02 | CP-OFDM<br>256 QAM | 1@1   | 15.27 | 14.25 | 17.80 | 22.80 | 0.1906 |
| 77 | 30 | 60 | 648668 | 3730.02 | CP-OFDM<br>256 QAM | 1@160 | 15.26 | 13.28 | 17.39 | 22.39 | 0.1735 |
| 77 | 30 | 60 | 656000 | 3840    | CP-OFDM<br>QPSK    | 81@40 | 20.36 | 17.52 | 22.18 | 27.18 | 0.5222 |
| 77 | 30 | 60 | 656000 | 3840    | CP-OFDM<br>QPSK    | 1@1   | 20.37 | 18.12 | 22.40 | 27.40 | 0.5495 |
| 77 | 30 | 60 | 656000 | 3840    | CP-OFDM<br>QPSK    | 1@160 | 20.51 | 17.27 | 22.20 | 27.20 | 0.5243 |
| 77 | 30 | 60 | 656000 | 3840    | CP-OFDM<br>16 QAM  | 81@40 | 19.73 | 16.94 | 21.57 | 26.57 | 0.4535 |
| 77 | 30 | 60 | 656000 | 3840    | CP-OFDM<br>16 QAM  | 1@1   | 19.95 | 17.43 | 21.88 | 26.88 | 0.4876 |
| 77 | 30 | 60 | 656000 | 3840    | CP-OFDM<br>16 QAM  | 1@160 | 19.87 | 16.66 | 21.57 | 26.57 | 0.4535 |
| 77 | 30 | 60 | 656000 | 3840    | CP-OFDM<br>64 QAM  | 81@40 | 18.22 | 15.34 | 20.02 | 25.02 | 0.3180 |
| 77 | 30 | 60 | 656000 | 3840    | CP-OFDM<br>64 QAM  | 1@1   | 18.41 | 16.15 | 20.44 | 25.44 | 0.3496 |
| 77 | 30 | 60 | 656000 | 3840    | CP-OFDM<br>64 QAM  | 1@160 | 18.43 | 15.74 | 20.30 | 25.30 | 0.3389 |

|    |    |    |        |         |                    |        |       |       |       |       |        |
|----|----|----|--------|---------|--------------------|--------|-------|-------|-------|-------|--------|
| 77 | 30 | 60 | 656000 | 3840    | CP-OFDM<br>256 QAM | 81@40  | 15.26 | 12.45 | 17.09 | 22.09 | 0.1618 |
| 77 | 30 | 60 | 656000 | 3840    | CP-OFDM<br>256 QAM | 1@1    | 15.31 | 13.11 | 17.36 | 22.36 | 0.1721 |
| 77 | 30 | 60 | 656000 | 3840    | CP-OFDM<br>256 QAM | 1@160  | 15.23 | 12.39 | 17.05 | 22.05 | 0.1603 |
| 77 | 30 | 60 | 663332 | 3949.98 | CP-OFDM<br>QPSK    | 81@40  | 19.83 | 17.43 | 21.80 | 26.80 | 0.4791 |
| 77 | 30 | 60 | 663332 | 3949.98 | CP-OFDM<br>QPSK    | 1@1    | 20.37 | 17.53 | 22.19 | 27.19 | 0.5234 |
| 77 | 30 | 60 | 663332 | 3949.98 | CP-OFDM<br>QPSK    | 1@160  | 19.8  | 17.73 | 21.90 | 26.90 | 0.4895 |
| 77 | 30 | 60 | 663332 | 3949.98 | CP-OFDM<br>16 QAM  | 81@40  | 19.41 | 16.97 | 21.37 | 26.37 | 0.4335 |
| 77 | 30 | 60 | 663332 | 3949.98 | CP-OFDM<br>16 QAM  | 1@1    | 19.71 | 16.75 | 21.49 | 26.49 | 0.4454 |
| 77 | 30 | 60 | 663332 | 3949.98 | CP-OFDM<br>16 QAM  | 1@160  | 19.35 | 17.53 | 21.54 | 26.54 | 0.4513 |
| 77 | 30 | 60 | 663332 | 3949.98 | CP-OFDM<br>64 QAM  | 81@40  | 17.86 | 15.41 | 19.82 | 24.82 | 0.3031 |
| 77 | 30 | 60 | 663332 | 3949.98 | CP-OFDM<br>64 QAM  | 1@1    | 18.11 | 15.44 | 19.99 | 24.99 | 0.3153 |
| 77 | 30 | 60 | 663332 | 3949.98 | CP-OFDM<br>64 QAM  | 1@160  | 17.45 | 16.22 | 19.89 | 24.89 | 0.3082 |
| 77 | 30 | 60 | 663332 | 3949.98 | CP-OFDM<br>256 QAM | 81@40  | 14.97 | 12.43 | 16.89 | 21.89 | 0.1546 |
| 77 | 30 | 60 | 663332 | 3949.98 | CP-OFDM<br>256 QAM | 1@1    | 14.95 | 12.4  | 16.87 | 21.87 | 0.1538 |
| 77 | 30 | 60 | 663332 | 3949.98 | CP-OFDM<br>256 QAM | 1@160  | 14.79 | 13.02 | 17.00 | 22.00 | 0.1587 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>QPSK    | 108@54 | 20.22 | 18.6  | 22.50 | 27.50 | 0.5617 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>QPSK    | 1@1    | 20.48 | 19.35 | 22.96 | 27.96 | 0.6255 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>QPSK    | 1@215  | 20.28 | 17.96 | 22.28 | 27.28 | 0.5350 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>16 QAM  | 108@54 | 19.77 | 18.29 | 22.10 | 27.10 | 0.5132 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>16 QAM  | 1@1    | 19.77 | 18.91 | 22.37 | 27.37 | 0.5460 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>16 QAM  | 1@215  | 19.93 | 17.27 | 21.81 | 26.81 | 0.4798 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>64 QAM  | 108@54 | 18.23 | 16.82 | 20.59 | 25.59 | 0.3624 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>64 QAM  | 1@1    | 18.19 | 17.45 | 20.85 | 25.85 | 0.3842 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>64 QAM  | 1@215  | 18.25 | 15.98 | 20.27 | 25.27 | 0.3367 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>256 QAM | 108@54 | 15.24 | 13.66 | 17.53 | 22.53 | 0.1791 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>256 QAM | 1@1    | 15.39 | 14.45 | 17.96 | 22.96 | 0.1975 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>256 QAM | 1@215  | 15.17 | 13.01 | 17.23 | 22.23 | 0.1672 |
| 77 | 30 | 80 | 656000 | 3840    | CP-OFDM<br>QPSK    | 108@54 | 20.41 | 17.53 | 22.21 | 27.21 | 0.5266 |
| 77 | 30 | 80 | 656000 | 3840    | CP-OFDM<br>QPSK    | 1@1    | 20.84 | 18.58 | 22.87 | 27.87 | 0.6117 |
| 77 | 30 | 80 | 656000 | 3840    | CP-OFDM<br>QPSK    | 1@215  | 20.72 | 17.62 | 22.45 | 27.45 | 0.5561 |
| 77 | 30 | 80 | 656000 | 3840    | CP-OFDM<br>16 QAM  | 108@54 | 19.94 | 17.1  | 21.76 | 26.76 | 0.4741 |
| 77 | 30 | 80 | 656000 | 3840    | CP-OFDM<br>16 QAM  | 1@1    | 20.11 | 18.01 | 22.20 | 27.20 | 0.5243 |
| 77 | 30 | 80 | 656000 | 3840    | CP-OFDM<br>16 QAM  | 1@215  | 19.85 | 17.08 | 21.69 | 26.69 | 0.4669 |
| 77 | 30 | 80 | 656000 | 3840    | CP-OFDM<br>64 QAM  | 108@54 | 18.36 | 15.56 | 20.19 | 25.19 | 0.3305 |

|    |    |    |        |         |                    |        |       |       |       |       |        |
|----|----|----|--------|---------|--------------------|--------|-------|-------|-------|-------|--------|
| 77 | 30 | 80 | 656000 | 3840    | CP-OFDM<br>64 QAM  | 1@1    | 18.48 | 16.43 | 20.59 | 25.59 | 0.3618 |
| 77 | 30 | 80 | 656000 | 3840    | CP-OFDM<br>64 QAM  | 1@215  | 18.52 | 15.51 | 20.28 | 25.28 | 0.3374 |
| 77 | 30 | 80 | 656000 | 3840    | CP-OFDM<br>256 QAM | 108@54 | 15.4  | 12.61 | 17.24 | 22.24 | 0.1673 |
| 77 | 30 | 80 | 656000 | 3840    | CP-OFDM<br>256 QAM | 1@1    | 15.56 | 13.15 | 17.53 | 22.53 | 0.1791 |
| 77 | 30 | 80 | 656000 | 3840    | CP-OFDM<br>256 QAM | 1@215  | 15.36 | 12.66 | 17.23 | 22.23 | 0.1670 |
| 77 | 30 | 80 | 662666 | 3939.99 | CP-OFDM<br>QPSK    | 108@54 | 20.05 | 17.48 | 21.96 | 26.96 | 0.4969 |
| 77 | 30 | 80 | 662666 | 3939.99 | CP-OFDM<br>QPSK    | 1@1    | 20.43 | 17.18 | 22.11 | 27.11 | 0.5143 |
| 77 | 30 | 80 | 662666 | 3939.99 | CP-OFDM<br>QPSK    | 1@215  | 20.19 | 17.72 | 22.14 | 27.14 | 0.5174 |
| 77 | 30 | 80 | 662666 | 3939.99 | CP-OFDM<br>16 QAM  | 108@54 | 19.87 | 17.14 | 21.73 | 26.73 | 0.4706 |
| 77 | 30 | 80 | 662666 | 3939.99 | CP-OFDM<br>16 QAM  | 1@1    | 20.14 | 16.76 | 21.78 | 26.78 | 0.4766 |
| 77 | 30 | 80 | 662666 | 3939.99 | CP-OFDM<br>16 QAM  | 1@215  | 20.2  | 17.05 | 21.91 | 26.91 | 0.4915 |
| 77 | 30 | 80 | 662666 | 3939.99 | CP-OFDM<br>64 QAM  | 108@54 | 18.35 | 15.62 | 20.21 | 25.21 | 0.3316 |
| 77 | 30 | 80 | 662666 | 3939.99 | CP-OFDM<br>64 QAM  | 1@1    | 18.36 | 15.53 | 20.18 | 25.18 | 0.3298 |
| 77 | 30 | 80 | 662666 | 3939.99 | CP-OFDM<br>64 QAM  | 1@215  | 18.42 | 15.61 | 20.25 | 25.25 | 0.3349 |
| 77 | 30 | 80 | 662666 | 3939.99 | CP-OFDM<br>256 QAM | 108@54 | 15.25 | 12.54 | 17.11 | 22.11 | 0.1627 |
| 77 | 30 | 80 | 662666 | 3939.99 | CP-OFDM<br>256 QAM | 1@1    | 15.34 | 12.4  | 17.12 | 22.12 | 0.1631 |
| 77 | 30 | 80 | 662666 | 3939.99 | CP-OFDM<br>256 QAM | 1@215  | 15.41 | 12.96 | 17.37 | 22.37 | 0.1724 |
| 77 | 30 | 90 | 649668 | 3745.02 | CP-OFDM<br>QPSK    | 120@60 | 20.32 | 18.73 | 22.61 | 27.61 | 0.5765 |
| 77 | 30 | 90 | 649668 | 3745.02 | CP-OFDM<br>QPSK    | 1@1    | 20.75 | 19.56 | 23.21 | 28.21 | 0.6616 |
| 77 | 30 | 90 | 649668 | 3745.02 | CP-OFDM<br>QPSK    | 1@243  | 20.6  | 17.65 | 22.38 | 27.38 | 0.5472 |
| 77 | 30 | 90 | 649668 | 3745.02 | CP-OFDM<br>16 QAM  | 120@60 | 19.91 | 18.22 | 22.16 | 27.16 | 0.5196 |
| 77 | 30 | 90 | 649668 | 3745.02 | CP-OFDM<br>16 QAM  | 1@1    | 20.11 | 18.87 | 22.54 | 27.54 | 0.5681 |
| 77 | 30 | 90 | 649668 | 3745.02 | CP-OFDM<br>16 QAM  | 1@243  | 20.03 | 17.02 | 21.79 | 26.79 | 0.4776 |
| 77 | 30 | 90 | 649668 | 3745.02 | CP-OFDM<br>64 QAM  | 120@60 | 18.41 | 16.74 | 20.67 | 25.67 | 0.3686 |
| 77 | 30 | 90 | 649668 | 3745.02 | CP-OFDM<br>64 QAM  | 1@1    | 18.41 | 17.81 | 21.13 | 26.13 | 0.4103 |
| 77 | 30 | 90 | 649668 | 3745.02 | CP-OFDM<br>64 QAM  | 1@243  | 18.42 | 15.9  | 20.35 | 25.35 | 0.3428 |
| 77 | 30 | 90 | 649668 | 3745.02 | CP-OFDM<br>256 QAM | 120@60 | 15.42 | 13.56 | 17.60 | 22.60 | 0.1819 |
| 77 | 30 | 90 | 649668 | 3745.02 | CP-OFDM<br>256 QAM | 1@1    | 15.36 | 14.22 | 17.84 | 22.84 | 0.1922 |
| 77 | 30 | 90 | 649668 | 3745.02 | CP-OFDM<br>256 QAM | 1@243  | 15.42 | 12.88 | 17.34 | 22.34 | 0.1715 |
| 77 | 30 | 90 | 656000 | 3840    | CP-OFDM<br>QPSK    | 120@60 | 20.52 | 17.68 | 22.34 | 27.34 | 0.5418 |
| 77 | 30 | 90 | 656000 | 3840    | CP-OFDM<br>QPSK    | 1@1    | 20.7  | 18.55 | 22.77 | 27.77 | 0.5980 |
| 77 | 30 | 90 | 656000 | 3840    | CP-OFDM<br>QPSK    | 1@243  | 20.61 | 17.41 | 22.31 | 27.31 | 0.5381 |
| 77 | 30 | 90 | 656000 | 3840    | CP-OFDM<br>16 QAM  | 120@60 | 20.11 | 17.12 | 21.88 | 26.88 | 0.4873 |
| 77 | 30 | 90 | 656000 | 3840    | CP-OFDM<br>16 QAM  | 1@1    | 20.42 | 17.95 | 22.37 | 27.37 | 0.5456 |

|    |    |     |        |         |                    |        |       |       |       |       |        |
|----|----|-----|--------|---------|--------------------|--------|-------|-------|-------|-------|--------|
| 77 | 30 | 90  | 656000 | 3840    | CP-OFDM<br>16 QAM  | 1@243  | 20.1  | 16.87 | 21.79 | 26.79 | 0.4774 |
| 77 | 30 | 90  | 656000 | 3840    | CP-OFDM<br>64 QAM  | 120@60 | 18.47 | 15.68 | 20.31 | 25.31 | 0.3393 |
| 77 | 30 | 90  | 656000 | 3840    | CP-OFDM<br>64 QAM  | 1@1    | 18.74 | 16.76 | 20.87 | 25.87 | 0.3866 |
| 77 | 30 | 90  | 656000 | 3840    | CP-OFDM<br>64 QAM  | 1@243  | 18.37 | 15.5  | 20.18 | 25.18 | 0.3295 |
| 77 | 30 | 90  | 656000 | 3840    | CP-OFDM<br>256 QAM | 120@60 | 15.46 | 12.52 | 17.24 | 22.24 | 0.1677 |
| 77 | 30 | 90  | 656000 | 3840    | CP-OFDM<br>256 QAM | 1@1    | 15.64 | 13.57 | 17.74 | 22.74 | 0.1878 |
| 77 | 30 | 90  | 656000 | 3840    | CP-OFDM<br>256 QAM | 1@243  | 15.28 | 12.48 | 17.11 | 22.11 | 0.1626 |
| 77 | 30 | 90  | 662332 | 3934.98 | CP-OFDM<br>QPSK    | 120@60 | 20.06 | 17.43 | 21.95 | 26.95 | 0.4956 |
| 77 | 30 | 90  | 662332 | 3934.98 | CP-OFDM<br>QPSK    | 1@1    | 20.46 | 17.33 | 22.18 | 27.18 | 0.5226 |
| 77 | 30 | 90  | 662332 | 3934.98 | CP-OFDM<br>QPSK    | 1@243  | 19.81 | 17.75 | 21.91 | 26.91 | 0.4911 |
| 77 | 30 | 90  | 662332 | 3934.98 | CP-OFDM<br>16 QAM  | 120@60 | 19.58 | 16.98 | 21.48 | 26.48 | 0.4448 |
| 77 | 30 | 90  | 662332 | 3934.98 | CP-OFDM<br>16 QAM  | 1@1    | 19.84 | 16.56 | 21.51 | 26.51 | 0.4480 |
| 77 | 30 | 90  | 662332 | 3934.98 | CP-OFDM<br>16 QAM  | 1@243  | 19.28 | 17.11 | 21.34 | 26.34 | 0.4305 |
| 77 | 30 | 90  | 662332 | 3934.98 | CP-OFDM<br>64 QAM  | 120@60 | 18.07 | 15.47 | 19.97 | 24.97 | 0.3142 |
| 77 | 30 | 90  | 662332 | 3934.98 | CP-OFDM<br>64 QAM  | 1@1    | 18.25 | 15.45 | 20.08 | 25.08 | 0.3223 |
| 77 | 30 | 90  | 662332 | 3934.98 | CP-OFDM<br>64 QAM  | 1@243  | 17.49 | 15.99 | 19.81 | 24.81 | 0.3030 |
| 77 | 30 | 90  | 662332 | 3934.98 | CP-OFDM<br>256 QAM | 120@60 | 15.22 | 12.44 | 17.06 | 22.06 | 0.1607 |
| 77 | 30 | 90  | 662332 | 3934.98 | CP-OFDM<br>256 QAM | 1@1    | 15.3  | 12.21 | 17.03 | 22.03 | 0.1598 |
| 77 | 30 | 90  | 662332 | 3934.98 | CP-OFDM<br>256 QAM | 1@243  | 14.61 | 13.07 | 16.92 | 21.92 | 0.1555 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM<br>QPSK    | 135@67 | 20.16 | 18.55 | 22.44 | 27.44 | 0.5546 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM<br>QPSK    | 1@1    | 20.55 | 19.44 | 23.04 | 28.04 | 0.6369 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM<br>QPSK    | 1@271  | 20.48 | 17.5  | 22.25 | 27.25 | 0.5310 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM<br>16 QAM  | 135@67 | 19.75 | 18.08 | 22.01 | 27.01 | 0.5018 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM<br>16 QAM  | 1@1    | 19.99 | 18.89 | 22.49 | 27.49 | 0.5604 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM<br>16 QAM  | 1@271  | 20.19 | 16.71 | 21.80 | 26.80 | 0.4786 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM<br>64 QAM  | 135@67 | 18.16 | 16.59 | 20.46 | 25.46 | 0.3512 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM<br>64 QAM  | 1@1    | 18.34 | 17.59 | 20.99 | 25.99 | 0.3973 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM<br>64 QAM  | 1@271  | 18.3  | 15.58 | 20.16 | 25.16 | 0.3281 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM<br>256 QAM | 135@67 | 15.13 | 13.44 | 17.38 | 22.38 | 0.1729 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM<br>256 QAM | 1@1    | 15.27 | 14.07 | 17.72 | 22.72 | 0.1871 |
| 77 | 30 | 100 | 650000 | 3750    | CP-OFDM<br>256 QAM | 1@271  | 15.34 | 12.46 | 17.14 | 22.14 | 0.1639 |
| 77 | 30 | 100 | 656000 | 3840    | CP-OFDM<br>QPSK    | 135@67 | 20.22 | 17.51 | 22.08 | 27.08 | 0.5109 |
| 77 | 30 | 100 | 656000 | 3840    | CP-OFDM<br>QPSK    | 1@1    | 20.76 | 18.67 | 22.85 | 27.85 | 0.6095 |
| 77 | 30 | 100 | 656000 | 3840    | CP-OFDM<br>QPSK    | 1@271  | 20.84 | 17.45 | 22.48 | 27.48 | 0.5595 |

|    |    |     |        |      |                    |        |       |       |       |       |        |
|----|----|-----|--------|------|--------------------|--------|-------|-------|-------|-------|--------|
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>16 QAM  | 135@67 | 19.85 | 17.09 | 21.70 | 26.70 | 0.4673 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>16 QAM  | 1@1    | 20.05 | 18.19 | 22.23 | 27.23 | 0.5283 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>16 QAM  | 1@271  | 20.14 | 16.83 | 21.80 | 26.80 | 0.4790 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>64 QAM  | 135@67 | 18.53 | 15.63 | 20.33 | 25.33 | 0.3410 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>64 QAM  | 1@1    | 18.56 | 16.78 | 20.77 | 25.77 | 0.3776 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>64 QAM  | 1@271  | 18.43 | 15.58 | 20.25 | 25.25 | 0.3346 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>256 QAM | 135@67 | 15.51 | 12.58 | 17.30 | 22.30 | 0.1697 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>256 QAM | 1@1    | 15.41 | 13.75 | 17.67 | 22.67 | 0.1849 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>256 QAM | 1@271  | 15.46 | 12.35 | 17.19 | 22.19 | 0.1655 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM<br>QPSK    | 135@67 | 20.13 | 17.44 | 22.00 | 27.00 | 0.5012 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM<br>QPSK    | 1@1    | 20.41 | 17.34 | 22.15 | 27.15 | 0.5189 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM<br>QPSK    | 1@271  | 19.82 | 17.95 | 22.00 | 27.00 | 0.5006 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM<br>16 QAM  | 135@67 | 19.64 | 16.95 | 21.51 | 26.51 | 0.4477 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM<br>16 QAM  | 1@1    | 19.97 | 16.67 | 21.64 | 26.64 | 0.4609 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM<br>16 QAM  | 1@271  | 19.41 | 17.44 | 21.55 | 26.55 | 0.4514 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM<br>64 QAM  | 135@67 | 18.19 | 15.47 | 20.05 | 25.05 | 0.3199 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM<br>64 QAM  | 1@1    | 18.18 | 15.54 | 20.07 | 25.07 | 0.3212 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM<br>64 QAM  | 1@271  | 17.66 | 16.02 | 19.93 | 24.93 | 0.3110 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM<br>256 QAM | 135@67 | 15.13 | 12.46 | 17.01 | 22.01 | 0.1588 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM<br>256 QAM | 1@1    | 15.28 | 12.38 | 17.08 | 22.08 | 0.1614 |
| 77 | 30 | 100 | 662000 | 3930 | CP-OFDM<br>256 QAM | 1@271  | 14.79 | 13.01 | 17.00 | 22.00 | 0.1585 |

## 5G NR n77 UL-MIMO

### Peak-to-Average Ratio

| Mode       | 5G NR UL-MIMO n77 / 20MHz / CP-OFDM (Ant4) |         |  |  |             |
|------------|--------------------------------------------|---------|--|--|-------------|
| Mod.       | QPSK                                       | QPSK    |  |  | Limit: 13dB |
| RB Size    | 1RB                                        | Full RB |  |  | Result      |
| Lowest CH  | 7.25                                       | 7.62    |  |  | PASS        |
| Middle CH  | 7.42                                       | 7.77    |  |  |             |
| Highest CH | 7.07                                       | 7.33    |  |  |             |

| Mode       | 5G NR UL-MIMO n77 / 20MHz / CP-OFDM (Ant5) |         |  |  |             |
|------------|--------------------------------------------|---------|--|--|-------------|
| Mod.       | QPSK                                       | QPSK    |  |  | Limit: 13dB |
| RB Size    | 1RB                                        | Full RB |  |  | Result      |
| Lowest CH  | 5.97                                       | 7.01    |  |  | PASS        |
| Middle CH  | 6.29                                       | 7.22    |  |  |             |
| Highest CH | 5.74                                       | 6.46    |  |  |             |