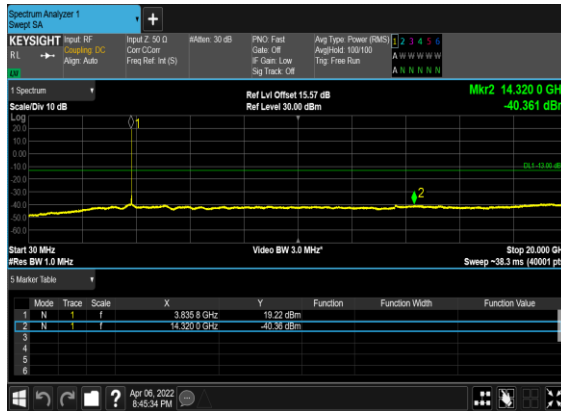
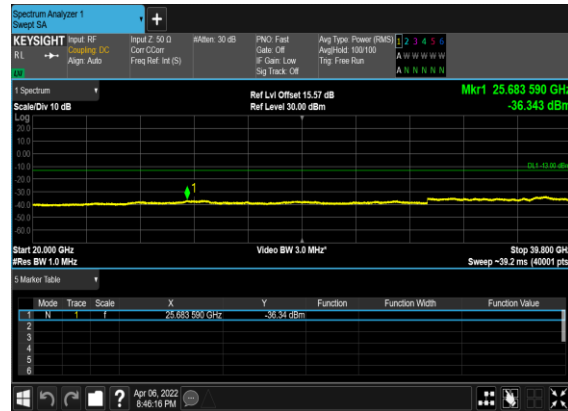


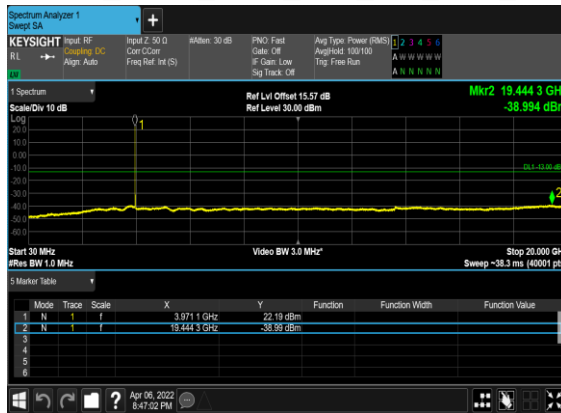
# N77(10M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



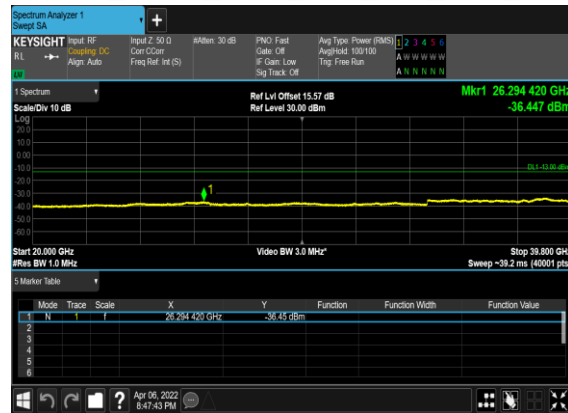
# N77(10M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



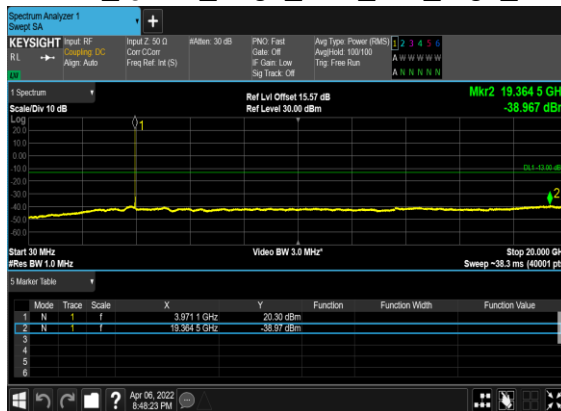
# N77(10M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



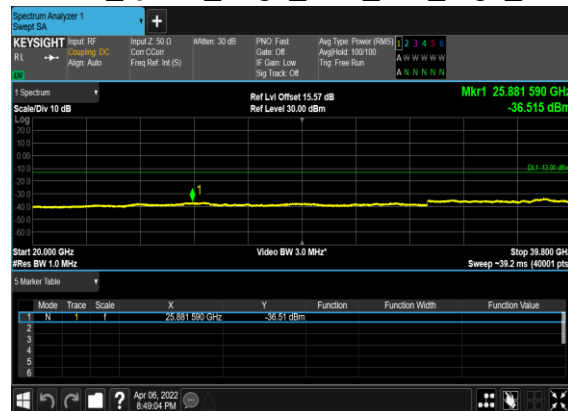
# N77(10M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



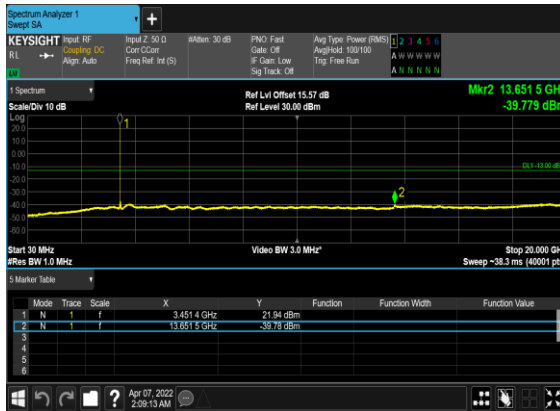
# N77(10M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



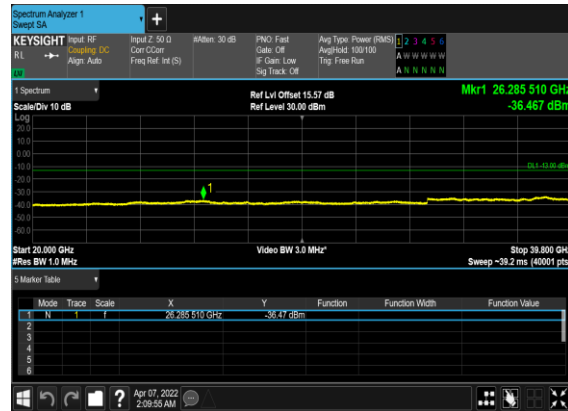
# N77(10M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



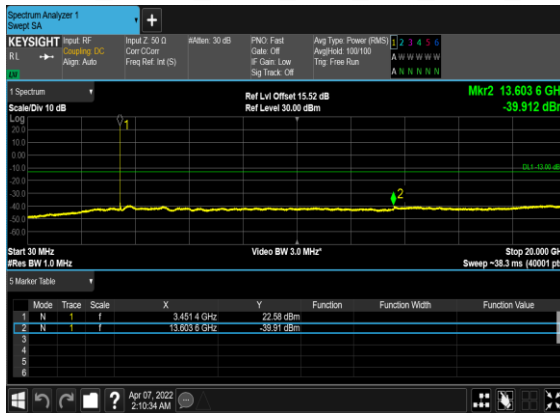
# N77(50M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



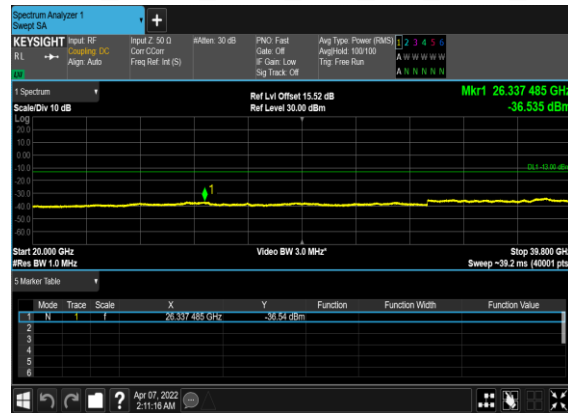
# N77(50M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



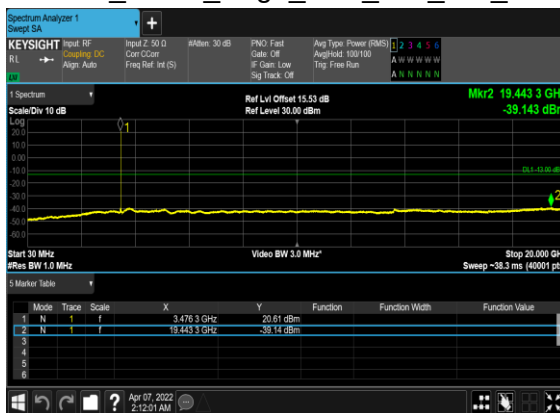
# N77(50M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



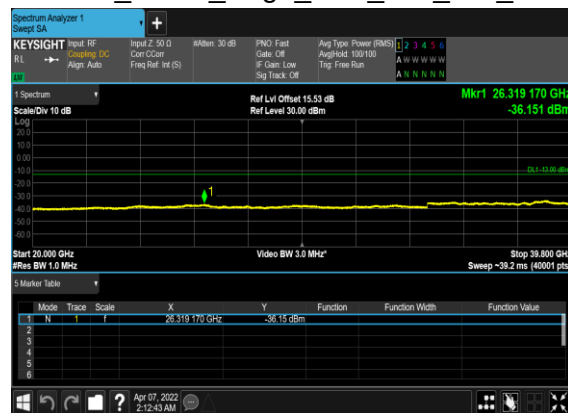
# N77(50M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



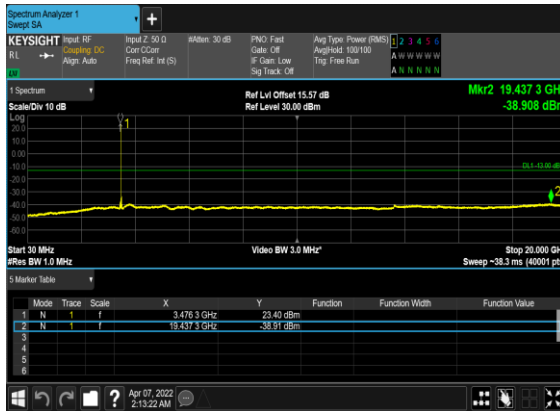
# N77(50M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



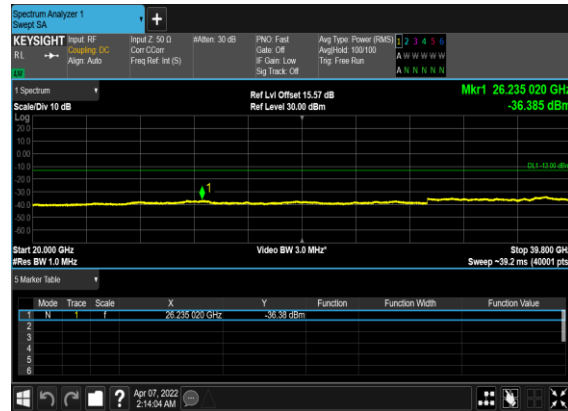
# N77(50M)\_DFT-s- OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



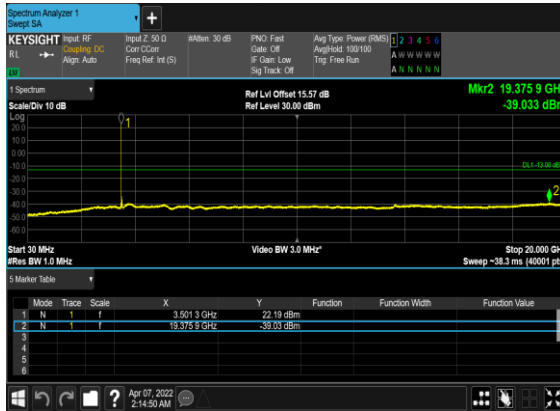
### N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



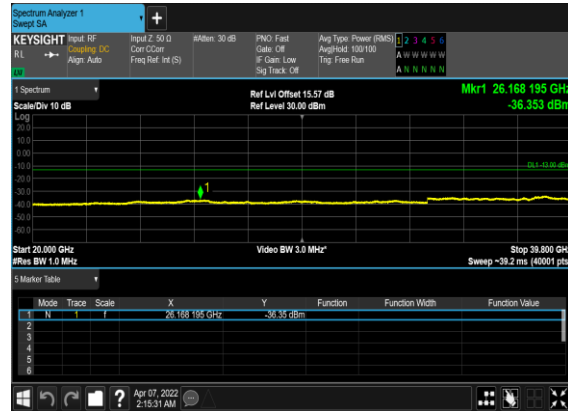
### N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



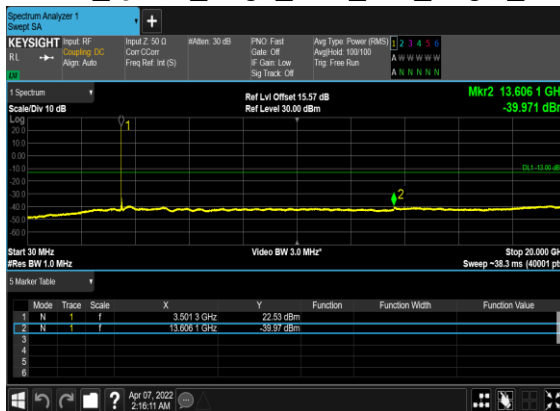
### N77(50M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



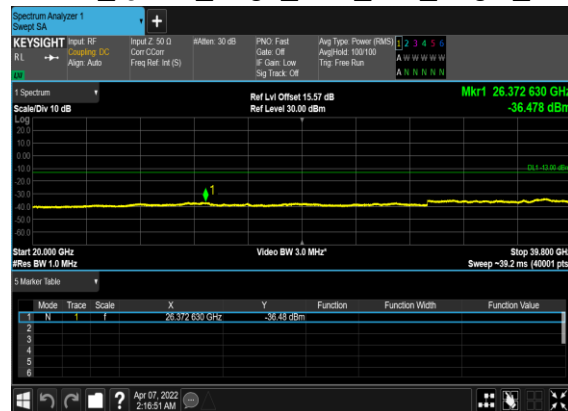
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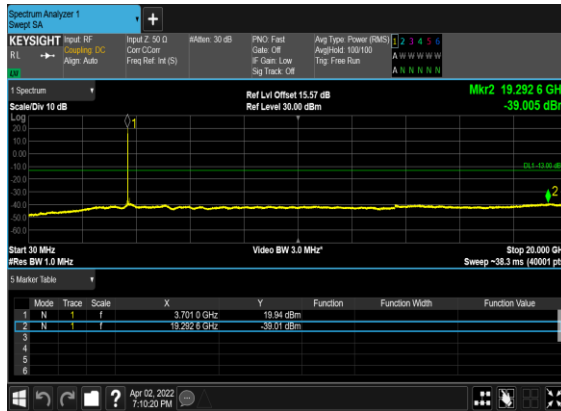
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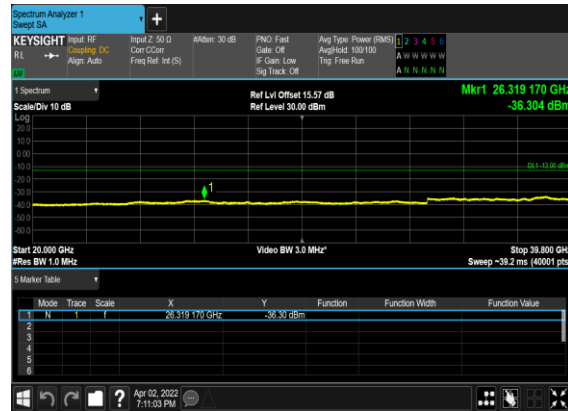
### N77(50M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_High\_CH



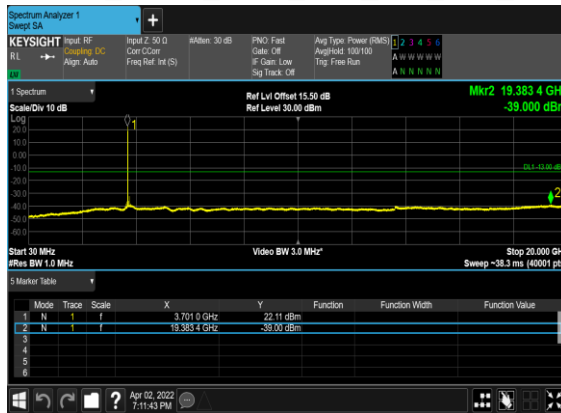
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



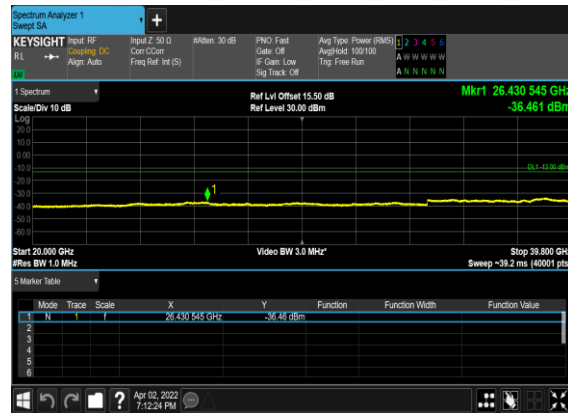
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



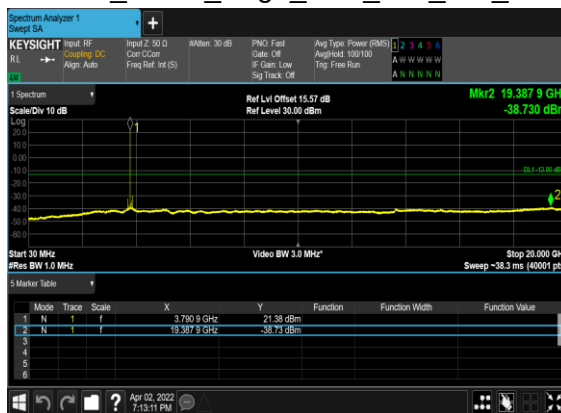
N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



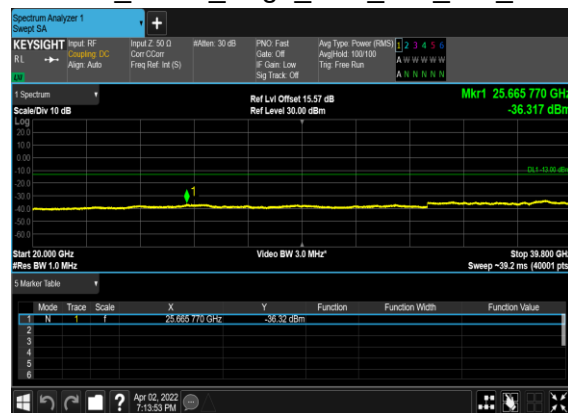
N77(100M)\_DFT-s-OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



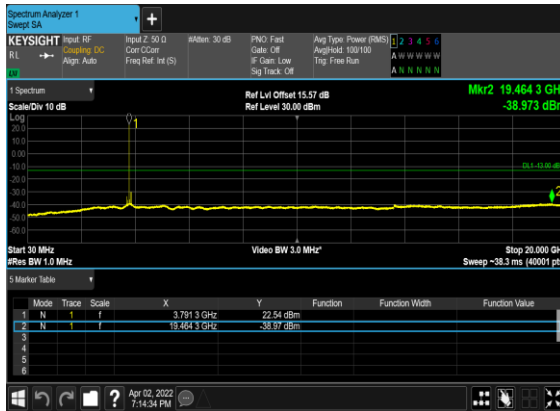
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



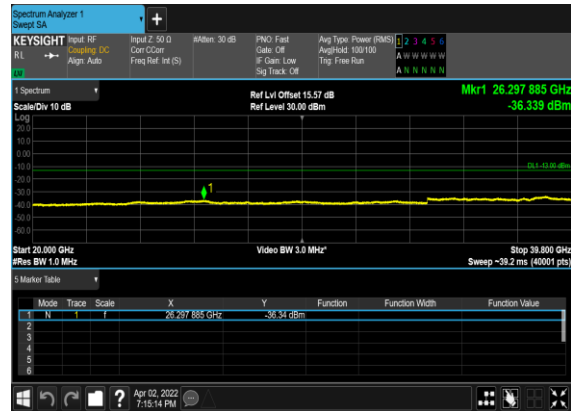
N77(100M)\_DFT-s-OFDM\_BPSK\_Edge\_1RB\_Left\_Mid\_CH



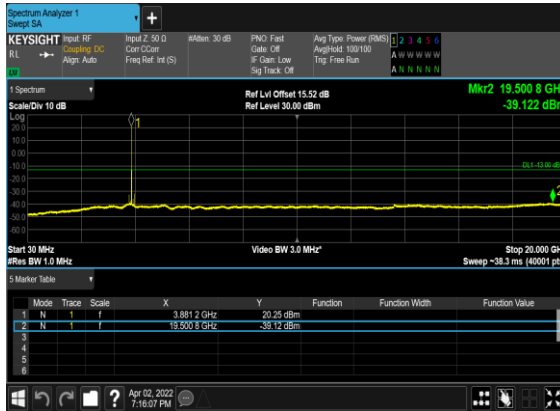
N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



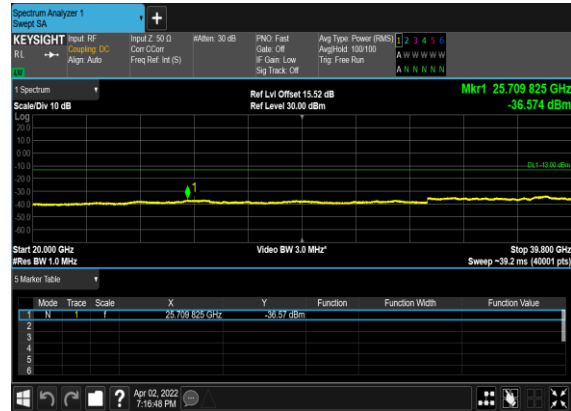
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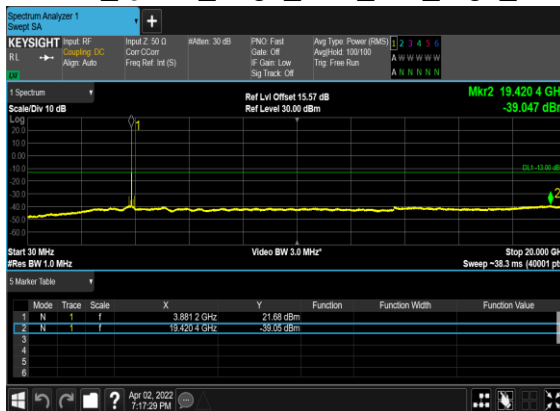
N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



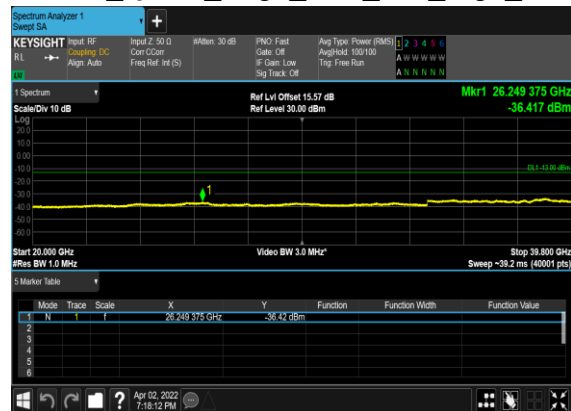
N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_High\_CH



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



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

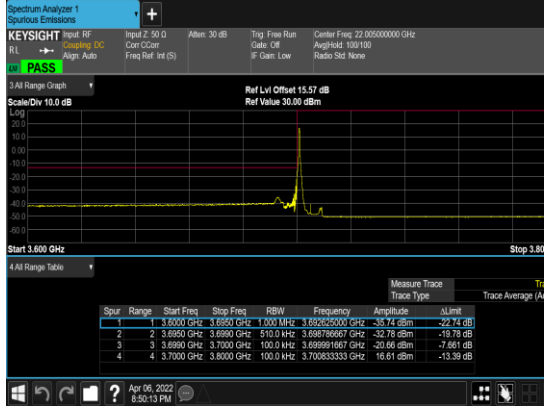


## Conducted Band Edge

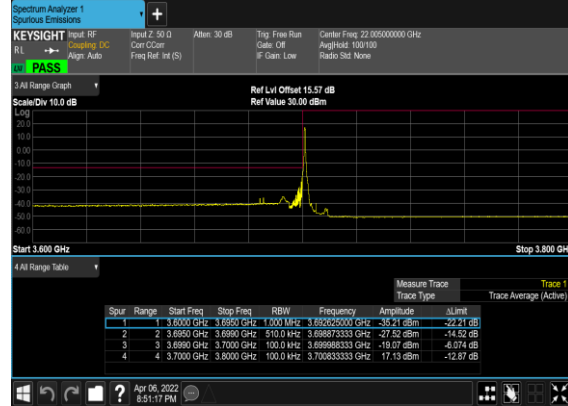
| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation      | RB    | Result    | Verdict |
|---------|-----------|-----------------|--------|------------|-----------------|-------|-----------|---------|
| 77      | 30        | 10              | 647000 | 3705.0     | DFT-s-OFDM BPSK | 1@0   | see graph | PASS    |
| 77      | 30        | 10              | 647000 | 3705.0     | DFT-s-OFDM QPSK | 1@0   | see graph | PASS    |
| 77      | 30        | 10              | 647000 | 3705.0     | DFT-s-OFDM BPSK | 24@0  | see graph | PASS    |
| 77      | 30        | 10              | 647000 | 3705.0     | DFT-s-OFDM QPSK | 24@0  | see graph | PASS    |
| 77      | 30        | 10              | 665000 | 3975.0     | DFT-s-OFDM BPSK | 1@23  | see graph | PASS    |
| 77      | 30        | 10              | 665000 | 3975.0     | DFT-s-OFDM QPSK | 1@23  | see graph | PASS    |
| 77      | 30        | 10              | 665000 | 3975.0     | DFT-s-OFDM BPSK | 24@0  | see graph | PASS    |
| 77      | 30        | 10              | 665000 | 3975.0     | DFT-s-OFDM QPSK | 24@0  | see graph | PASS    |
| 77      | 30        | 50              | 648334 | 3725.01    | DFT-s-OFDM BPSK | 1@0   | see graph | PASS    |
| 77      | 30        | 50              | 648334 | 3725.01    | DFT-s-OFDM QPSK | 1@0   | see graph | PASS    |
| 77      | 30        | 50              | 648334 | 3725.01    | DFT-s-OFDM BPSK | 128@0 | see graph | PASS    |
| 77      | 30        | 50              | 648334 | 3725.01    | DFT-s-OFDM QPSK | 128@0 | see graph | PASS    |
| 77      | 30        | 50              | 663666 | 3954.99    | DFT-s-OFDM BPSK | 1@132 | see graph | PASS    |
| 77      | 30        | 50              | 663666 | 3954.99    | DFT-s-OFDM QPSK | 1@132 | see graph | PASS    |
| 77      | 30        | 50              | 663666 | 3954.99    | DFT-s-OFDM BPSK | 128@0 | see graph | PASS    |
| 77      | 30        | 50              | 663666 | 3954.99    | DFT-s-OFDM QPSK | 128@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<br>BPSK | 270@0 | see graph | PASS |
| 77 | 30 | 100 | 662000 | 3930.0 | DFT-s-OFDM<br>QPSK | 270@0 | see graph | PASS |

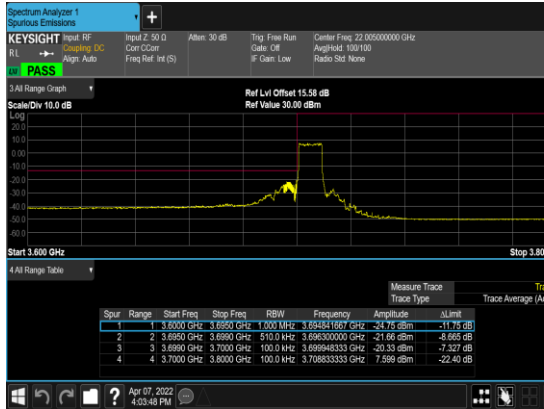
N77(10M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



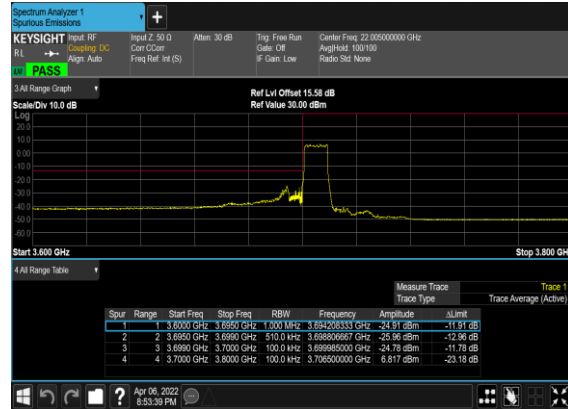
N77(10M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



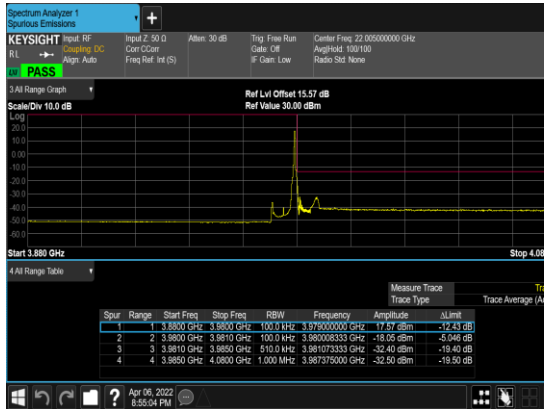
N77(10M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_Low\_CH



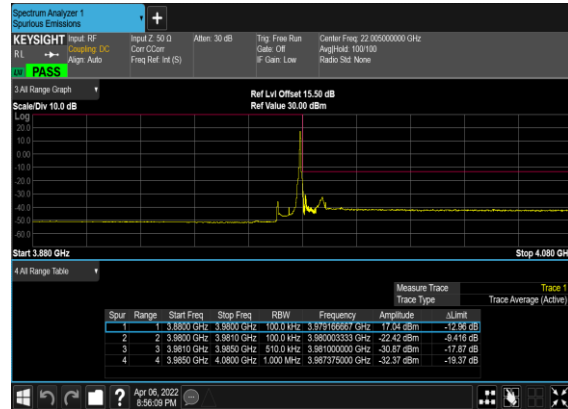
N77(10M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH



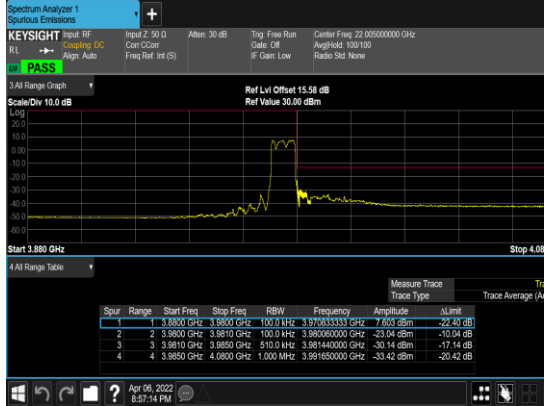
N77(10M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



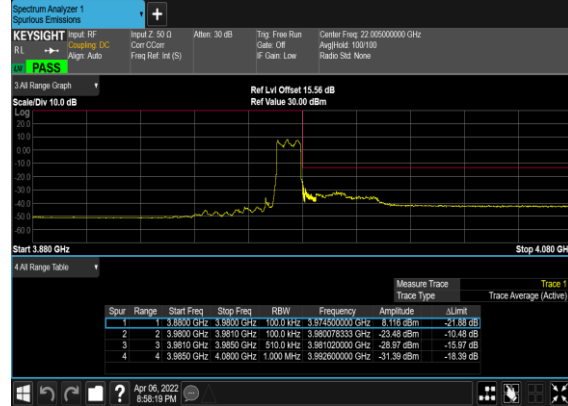
N77(10M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



N77(10M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_High\_CH



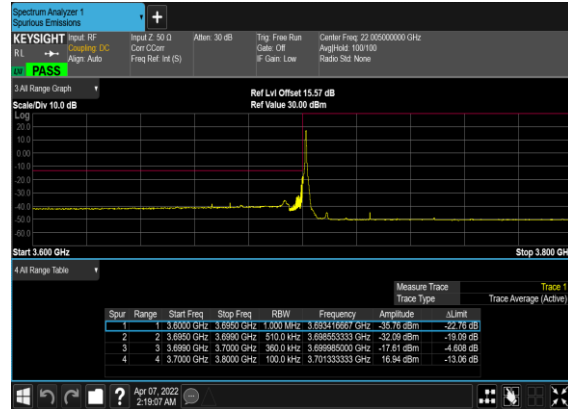
N77(10M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_High\_CH



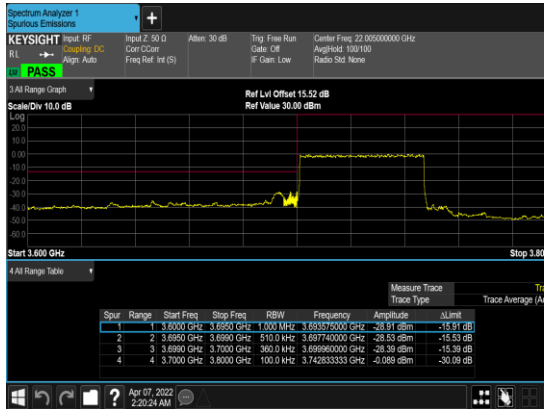
N77(50M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



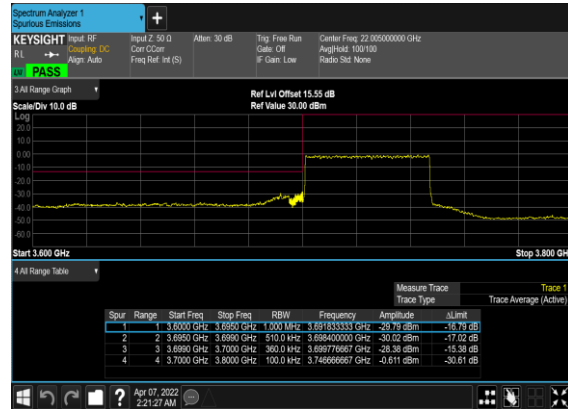
N77(50M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



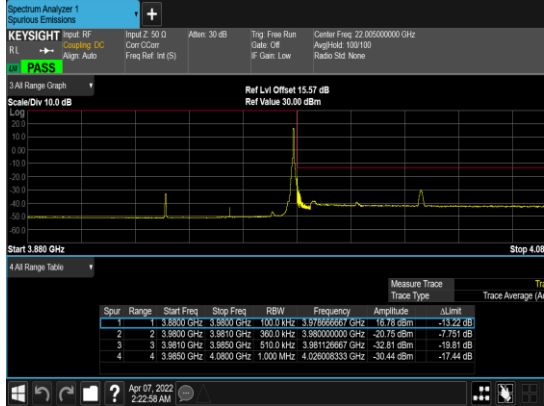
N77(50M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_Low\_CH



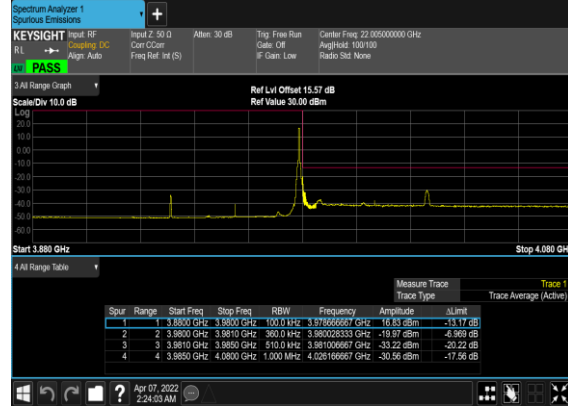
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OFDM\_QPSK\_Outer\_Full\_Low\_CH



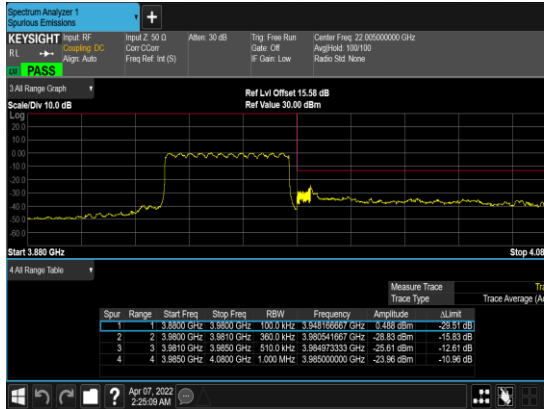
N77(50M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



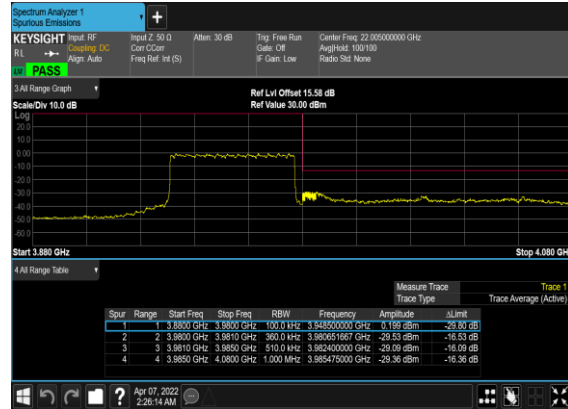
N77(50M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



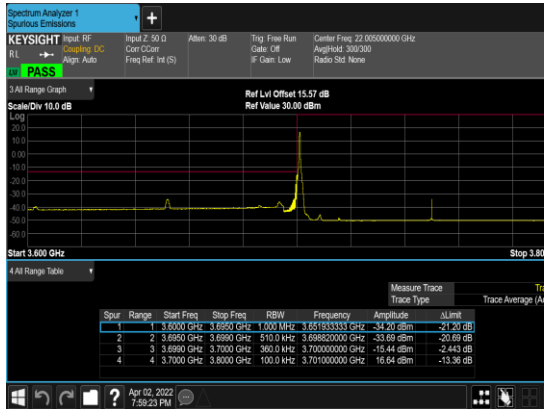
N77(50M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_High\_CH



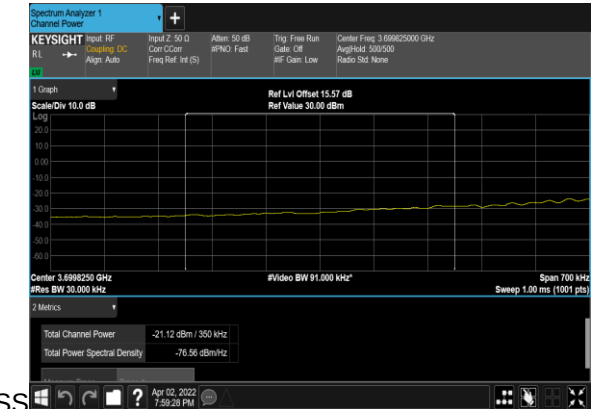
N77(50M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_High\_CH



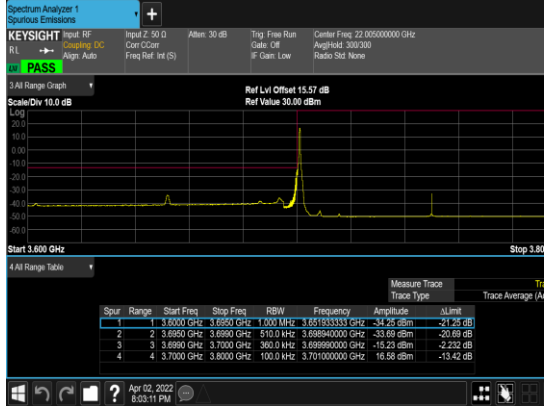
N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH



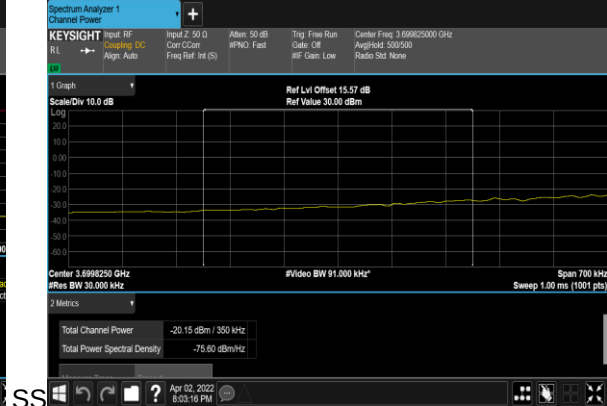
N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Left\_Low\_CH\_CHP\_PA



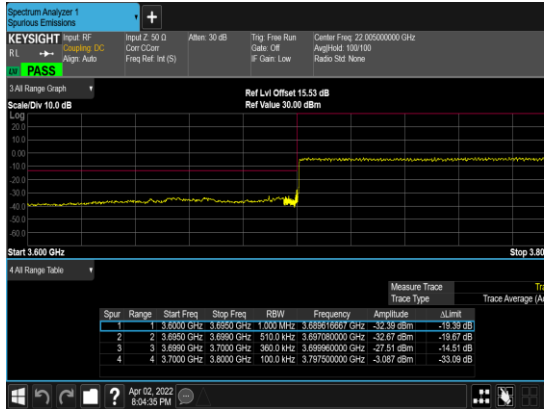
N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH



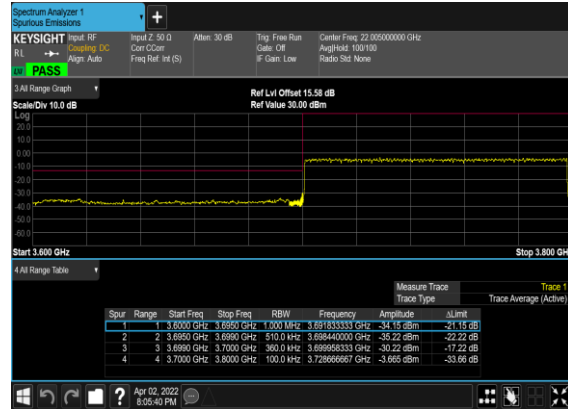
N77(100M)\_DFT-s-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Low\_CH\_CHP\_PA



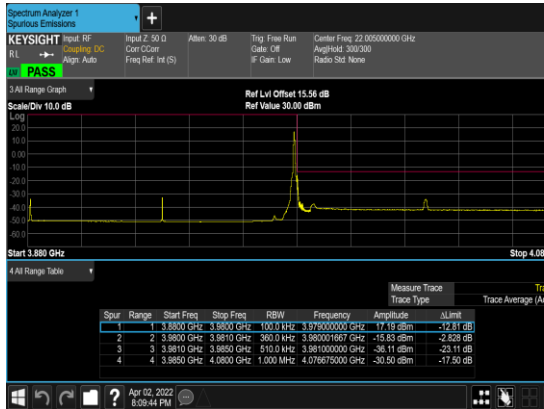
N77(100M)\_DFT-s-  
OFDM\_BPSK\_Outer\_Full\_Low\_CH



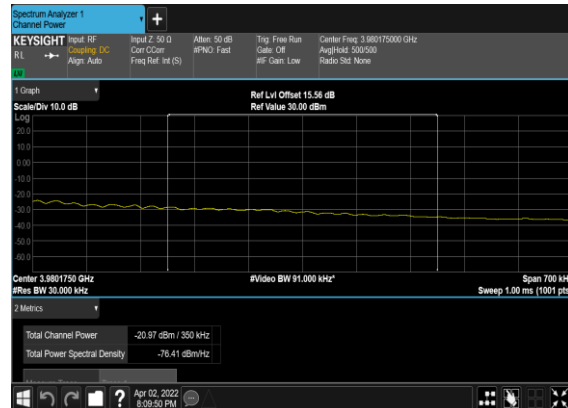
N77(100M)\_DFT-s-  
OFDM\_QPSK\_Outer\_Full\_Low\_CH



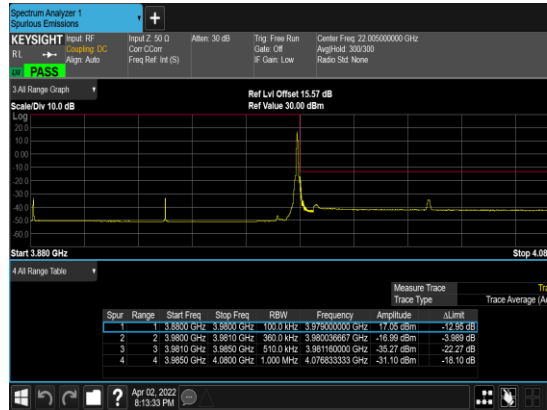
N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH



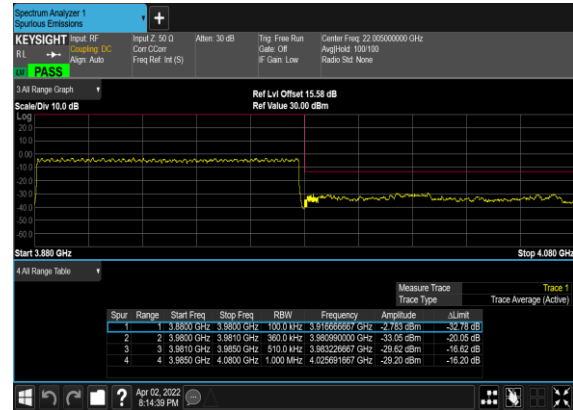
N77(100M)\_DFT-s-  
OFDM\_BPSK\_Edge\_1RB\_Right\_High\_CH\_CHP\_PA  
PASS



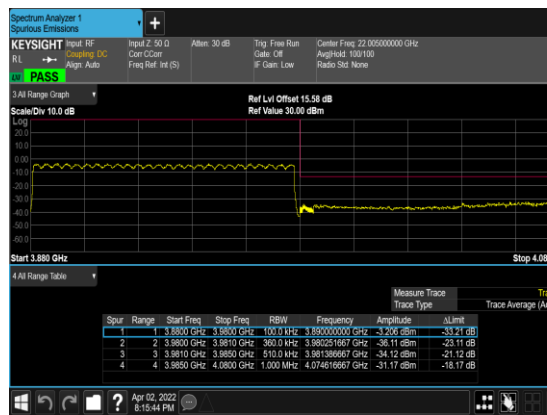
# N77(100M)\_DFT-s- OFDM\_QPSK\_Edge\_1RB\_Right\_High\_CH



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



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



# FR1 N77 UL MIMO

## (Ant 8+ Ant 7\_Max Conducted Power)

Transmitter Conducted Output Power And EIRP, ( $G_T - L_C$ )= -2.1dBi

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation      | RB   | ANT1 Power(dBm) | ANT2 Power(dBm) | Conducted Power(dBm) | EIRP (dBm) | EIRP (W) |
|---------|-----------|-----------------|--------|------------|-----------------|------|-----------------|-----------------|----------------------|------------|----------|
| 77      | 30        | 10              | 647000 | 3705       | CP-OFDM QPSK    | 12@6 | 23.12           | 22.99           | 26.07                | 23.97      | 0.2492   |
| 77      | 30        | 10              | 647000 | 3705       | CP-OFDM QPSK    | 1@1  | 22.92           | 22.93           | 25.94                | 23.84      | 0.2418   |
| 77      | 30        | 10              | 647000 | 3705       | CP-OFDM QPSK    | 1@22 | 22.9            | 23.06           | 25.99                | 23.89      | 0.2450   |
| 77      | 30        | 10              | 647000 | 3705       | CP-OFDM 16 QAM  | 12@6 | 22.59           | 22.49           | 25.55                | 23.45      | 0.2213   |
| 77      | 30        | 10              | 647000 | 3705       | CP-OFDM 16 QAM  | 1@1  | 22.61           | 22.32           | 25.48                | 23.38      | 0.2177   |
| 77      | 30        | 10              | 647000 | 3705       | CP-OFDM 16 QAM  | 1@22 | 22.5            | 22.53           | 25.53                | 23.43      | 0.2201   |
| 77      | 30        | 10              | 647000 | 3705       | CP-OFDM 64 QAM  | 12@6 | 21.14           | 21.08           | 24.12                | 22.02      | 0.1592   |
| 77      | 30        | 10              | 647000 | 3705       | CP-OFDM 64 QAM  | 1@1  | 21.02           | 20.73           | 23.89                | 21.79      | 0.1509   |
| 77      | 30        | 10              | 647000 | 3705       | CP-OFDM 64 QAM  | 1@22 | 20.94           | 20.79           | 23.88                | 21.78      | 0.1505   |
| 77      | 30        | 10              | 647000 | 3705       | CP-OFDM 256 QAM | 12@6 | 18.11           | 17.94           | 21.04                | 18.94      | 0.0783   |
| 77      | 30        | 10              | 647000 | 3705       | CP-OFDM 256 QAM | 1@1  | 18              | 18.04           | 21.03                | 18.93      | 0.0782   |
| 77      | 30        | 10              | 647000 | 3705       | CP-OFDM 256 QAM | 1@22 | 17.86           | 18.15           | 21.02                | 18.92      | 0.0779   |
| 77      | 30        | 10              | 656000 | 3840       | CP-OFDM QPSK    | 12@6 | 22.84           | 23.16           | 26.01                | 23.91      | 0.2462   |
| 77      | 30        | 10              | 656000 | 3840       | CP-OFDM QPSK    | 1@1  | 22.75           | 23.17           | 25.98                | 23.88      | 0.2441   |
| 77      | 30        | 10              | 656000 | 3840       | CP-OFDM QPSK    | 1@22 | 22.75           | 23.32           | 26.05                | 23.95      | 0.2486   |
| 77      | 30        | 10              | 656000 | 3840       | CP-OFDM 16 QAM  | 12@6 | 22.35           | 22.71           | 25.54                | 23.44      | 0.2210   |
| 77      | 30        | 10              | 656000 | 3840       | CP-OFDM 16 QAM  | 1@1  | 22.37           | 22.61           | 25.50                | 23.40      | 0.2189   |

|    |    |    |               |      |                    |      |       |       |       |       |        |
|----|----|----|---------------|------|--------------------|------|-------|-------|-------|-------|--------|
| 77 | 30 | 10 | 656000        | 3840 | CP-OFDM<br>16 QAM  | 1@22 | 22.34 | 22.71 | 25.54 | 23.44 | 0.2208 |
| 77 | 30 | 10 | 656000        | 3840 | CP-OFDM<br>64 QAM  | 12@6 | 20.87 | 21.27 | 24.08 | 21.98 | 0.1579 |
| 77 | 30 | 10 | 656000        | 3840 | CP-OFDM<br>64 QAM  | 1@1  | 20.84 | 20.93 | 23.90 | 21.80 | 0.1512 |
| 77 | 30 | 10 | 656000        | 3840 | CP-OFDM<br>64 QAM  | 1@22 | 20.78 | 20.97 | 23.89 | 21.79 | 0.1509 |
| 77 | 30 | 10 | 656000        | 3840 | CP-OFDM<br>256 QAM | 12@6 | 17.85 | 18.14 | 21.01 | 18.91 | 0.0778 |
| 77 | 30 | 10 | 656000        | 3840 | CP-OFDM<br>256 QAM | 1@1  | 17.73 | 18.18 | 20.97 | 18.87 | 0.0771 |
| 77 | 30 | 10 | 656000        | 3840 | CP-OFDM<br>256 QAM | 1@22 | 17.67 | 18.19 | 20.95 | 18.85 | 0.0767 |
| 77 | 30 | 10 | 665000        | 3975 | CP-OFDM<br>QPSK    | 12@6 | 23.19 | 23.08 | 26.15 | 24.05 | 0.2538 |
| 77 | 30 | 10 | 665000        | 3975 | CP-OFDM<br>QPSK    | 1@1  | 23.06 | 22.94 | 26.01 | 23.91 | 0.2461 |
| 77 | 30 | 10 | 665000        | 3975 | CP-OFDM<br>QPSK    | 1@22 | 23.07 | 23.13 | 26.11 | 24.01 | 0.2518 |
| 77 | 30 | 10 | 665000        | 3975 | CP-OFDM<br>16 QAM  | 12@6 | 22.65 | 22.53 | 25.60 | 23.50 | 0.2239 |
| 77 | 30 | 10 | 665000        | 3975 | CP-OFDM<br>16 QAM  | 1@1  | 22.62 | 22.41 | 25.53 | 23.43 | 0.2201 |
| 77 | 30 | 10 | 665000        | 3975 | CP-OFDM<br>16 QAM  | 1@22 | 22.68 | 22.51 | 25.61 | 23.51 | 0.2242 |
| 77 | 30 | 10 | 665000        | 3975 | CP-OFDM<br>64 QAM  | 12@6 | 21.15 | 21.08 | 24.13 | 22.03 | 0.1594 |
| 77 | 30 | 10 | 665000        | 3975 | CP-OFDM<br>64 QAM  | 1@1  | 21.23 | 20.65 | 23.96 | 21.86 | 0.1535 |
| 77 | 30 | 10 | 665000        | 3975 | CP-OFDM<br>64 QAM  | 1@22 | 21.24 | 20.73 | 24.00 | 21.90 | 0.1550 |
| 77 | 30 | 10 | 665000        | 3975 | CP-OFDM<br>256 QAM | 12@6 | 18.13 | 17.98 | 21.07 | 18.97 | 0.0788 |
| 77 | 30 | 10 | 665000        | 3975 | CP-OFDM<br>256 QAM | 1@1  | 18.07 | 18.1  | 21.10 | 19.00 | 0.0793 |
| 77 | 30 | 10 | 665000        | 3975 | CP-OFDM<br>256 QAM | 1@22 | 18.04 | 18.15 | 21.11 | 19.01 | 0.0795 |
| 77 | 30 | 15 | 6471683707.52 |      | CP-OFDM<br>QPSK    | 19@9 | 23.27 | 23.23 | 26.26 | 24.16 | 0.2606 |
| 77 | 30 | 15 | 6471683707.52 |      | CP-OFDM<br>QPSK    | 1@1  | 23.14 | 23.12 | 26.14 | 24.04 | 0.2535 |
| 77 | 30 | 15 | 6471683707.52 |      | CP-OFDM            | 1@36 | 23.22 | 23.49 | 26.37 | 24.27 | 0.2671 |

| QPSK |    |    |               |                    |      |       |       |       |       |        |
|------|----|----|---------------|--------------------|------|-------|-------|-------|-------|--------|
| 77   | 30 | 15 | 6471683707.52 | CP-OFDM<br>16 QAM  | 19@9 | 22.71 | 22.8  | 25.77 | 23.67 | 0.2326 |
| 77   | 30 | 15 | 6471683707.52 | CP-OFDM<br>16 QAM  | 1@1  | 22.85 | 22.65 | 25.76 | 23.66 | 0.2324 |
| 77   | 30 | 15 | 6471683707.52 | CP-OFDM<br>16 QAM  | 1@36 | 22.91 | 22.9  | 25.92 | 23.82 | 0.2407 |
| 77   | 30 | 15 | 6471683707.52 | CP-OFDM<br>64 QAM  | 19@9 | 21.14 | 21.27 | 24.22 | 22.12 | 0.1628 |
| 77   | 30 | 15 | 6471683707.52 | CP-OFDM<br>64 QAM  | 1@1  | 21.27 | 20.89 | 24.09 | 21.99 | 0.1583 |
| 77   | 30 | 15 | 6471683707.52 | CP-OFDM<br>64 QAM  | 1@36 | 21.18 | 21.07 | 24.14 | 22.04 | 0.1598 |
| 77   | 30 | 15 | 6471683707.52 | CP-OFDM<br>256 QAM | 19@9 | 18.18 | 18.17 | 21.19 | 19.09 | 0.0810 |
| 77   | 30 | 15 | 6471683707.52 | CP-OFDM<br>256 QAM | 1@1  | 18.15 | 18.29 | 21.23 | 19.13 | 0.0819 |
| 77   | 30 | 15 | 6471683707.52 | CP-OFDM<br>256 QAM | 1@36 | 18.1  | 18.47 | 21.30 | 19.20 | 0.0832 |
| 77   | 30 | 15 | 656000 3840   | CP-OFDM<br>QPSK    | 19@9 | 23.11 | 23.42 | 26.28 | 24.18 | 0.2617 |
| 77   | 30 | 15 | 656000 3840   | CP-OFDM<br>QPSK    | 1@1  | 22.88 | 23.4  | 26.16 | 24.06 | 0.2546 |
| 77   | 30 | 15 | 656000 3840   | CP-OFDM<br>QPSK    | 1@36 | 23.14 | 23.64 | 26.41 | 24.31 | 0.2696 |
| 77   | 30 | 15 | 656000 3840   | CP-OFDM<br>16 QAM  | 19@9 | 22.57 | 22.93 | 25.76 | 23.66 | 0.2325 |
| 77   | 30 | 15 | 656000 3840   | CP-OFDM<br>16 QAM  | 1@1  | 22.5  | 22.77 | 25.65 | 23.55 | 0.2263 |
| 77   | 30 | 15 | 656000 3840   | CP-OFDM<br>16 QAM  | 1@36 | 22.69 | 23.05 | 25.88 | 23.78 | 0.2390 |
| 77   | 30 | 15 | 656000 3840   | CP-OFDM<br>64 QAM  | 19@9 | 21.04 | 21.53 | 24.30 | 22.20 | 0.1660 |
| 77   | 30 | 15 | 656000 3840   | CP-OFDM<br>64 QAM  | 1@1  | 21.04 | 21.22 | 24.14 | 22.04 | 0.1600 |
| 77   | 30 | 15 | 656000 3840   | CP-OFDM<br>64 QAM  | 1@36 | 21.06 | 21.34 | 24.21 | 22.11 | 0.1627 |
| 77   | 30 | 15 | 656000 3840   | CP-OFDM<br>256 QAM | 19@9 | 18.04 | 18.36 | 21.21 | 19.11 | 0.0815 |
| 77   | 30 | 15 | 656000 3840   | CP-OFDM<br>256 QAM | 1@1  | 17.98 | 18.5  | 21.26 | 19.16 | 0.0824 |
| 77   | 30 | 15 | 656000 3840   | CP-OFDM<br>256 QAM | 1@36 | 17.98 | 18.64 | 21.33 | 19.23 | 0.0838 |

|    |    |    |               |                    |       |       |       |       |       |        |
|----|----|----|---------------|--------------------|-------|-------|-------|-------|-------|--------|
| 77 | 30 | 15 | 6648323972.48 | CP-OFDM<br>QPSK    | 19@9  | 23.16 | 23.06 | 26.12 | 24.02 | 0.2524 |
| 77 | 30 | 15 | 6648323972.48 | CP-OFDM<br>QPSK    | 1@1   | 23.12 | 23.02 | 26.08 | 23.98 | 0.2501 |
| 77 | 30 | 15 | 6648323972.48 | CP-OFDM<br>QPSK    | 1@36  | 23.17 | 23.27 | 26.23 | 24.13 | 0.2589 |
| 77 | 30 | 15 | 6648323972.48 | CP-OFDM<br>16 QAM  | 19@9  | 22.59 | 22.59 | 25.60 | 23.50 | 0.2239 |
| 77 | 30 | 15 | 6648323972.48 | CP-OFDM<br>16 QAM  | 1@1   | 22.78 | 22.54 | 25.67 | 23.57 | 0.2276 |
| 77 | 30 | 15 | 6648323972.48 | CP-OFDM<br>16 QAM  | 1@36  | 22.92 | 22.74 | 25.84 | 23.74 | 0.2367 |
| 77 | 30 | 15 | 6648323972.48 | CP-OFDM<br>64 QAM  | 19@9  | 21.07 | 21.17 | 24.13 | 22.03 | 0.1596 |
| 77 | 30 | 15 | 6648323972.48 | CP-OFDM<br>64 QAM  | 1@1   | 21.16 | 20.8  | 23.99 | 21.89 | 0.1547 |
| 77 | 30 | 15 | 6648323972.48 | CP-OFDM<br>64 QAM  | 1@36  | 21.24 | 21.02 | 24.14 | 22.04 | 0.1600 |
| 77 | 30 | 15 | 6648323972.48 | CP-OFDM<br>256 QAM | 19@9  | 18.08 | 18.05 | 21.08 | 18.98 | 0.0790 |
| 77 | 30 | 15 | 6648323972.48 | CP-OFDM<br>256 QAM | 1@1   | 18.02 | 18.18 | 21.11 | 19.01 | 0.0796 |
| 77 | 30 | 15 | 6648323972.48 | CP-OFDM<br>256 QAM | 1@36  | 18.13 | 18.32 | 21.24 | 19.14 | 0.0820 |
| 77 | 30 | 20 | 6473343710.01 | CP-OFDM<br>QPSK    | 25@12 | 23.15 | 23.19 | 26.18 | 24.08 | 0.2559 |
| 77 | 30 | 20 | 6473343710.01 | CP-OFDM<br>QPSK    | 1@1   | 23.16 | 23.11 | 26.15 | 24.05 | 0.2538 |
| 77 | 30 | 20 | 6473343710.01 | CP-OFDM<br>QPSK    | 1@49  | 23.17 | 23.26 | 26.23 | 24.13 | 0.2586 |
| 77 | 30 | 20 | 6473343710.01 | CP-OFDM<br>16 QAM  | 25@12 | 22.76 | 22.73 | 25.76 | 23.66 | 0.2320 |
| 77 | 30 | 20 | 6473343710.01 | CP-OFDM<br>16 QAM  | 1@1   | 22.81 | 22.65 | 25.74 | 23.64 | 0.2313 |
| 77 | 30 | 20 | 6473343710.01 | CP-OFDM<br>16 QAM  | 1@49  | 22.77 | 22.78 | 25.79 | 23.69 | 0.2336 |
| 77 | 30 | 20 | 6473343710.01 | CP-OFDM<br>64 QAM  | 25@12 | 21.14 | 21.3  | 24.23 | 22.13 | 0.1633 |
| 77 | 30 | 20 | 6473343710.01 | CP-OFDM<br>64 QAM  | 1@1   | 21.32 | 20.84 | 24.10 | 22.00 | 0.1584 |
| 77 | 30 | 20 | 6473343710.01 | CP-OFDM<br>64 QAM  | 1@49  | 21.31 | 20.94 | 24.14 | 22.04 | 0.1599 |
| 77 | 30 | 20 | 6473343710.01 | CP-OFDM            | 25@12 | 18.14 | 18.2  | 21.18 | 19.08 | 0.0809 |

|         |    |    |               |                    |       |       |       |       |       |        |
|---------|----|----|---------------|--------------------|-------|-------|-------|-------|-------|--------|
| 256 QAM |    |    |               |                    |       |       |       |       |       |        |
| 77      | 30 | 20 | 6473343710.01 | CP-OFDM<br>256 QAM | 1@1   | 18.15 | 18.26 | 21.22 | 19.12 | 0.0816 |
| 77      | 30 | 20 | 6473343710.01 | CP-OFDM<br>256 QAM | 1@49  | 18.04 | 18.36 | 21.21 | 19.11 | 0.0815 |
| 77      | 30 | 20 | 656000 3840   | CP-OFDM<br>QPSK    | 25@12 | 23.07 | 23.4  | 26.25 | 24.15 | 0.2599 |
| 77      | 30 | 20 | 656000 3840   | CP-OFDM<br>QPSK    | 1@1   | 22.92 | 23.33 | 26.14 | 24.04 | 0.2535 |
| 77      | 30 | 20 | 656000 3840   | CP-OFDM<br>QPSK    | 1@49  | 23.04 | 23.42 | 26.24 | 24.14 | 0.2597 |
| 77      | 30 | 20 | 656000 3840   | CP-OFDM<br>16 QAM  | 25@12 | 22.62 | 22.86 | 25.75 | 23.65 | 0.2318 |
| 77      | 30 | 20 | 656000 3840   | CP-OFDM<br>16 QAM  | 1@1   | 22.56 | 22.8  | 25.69 | 23.59 | 0.2287 |
| 77      | 30 | 20 | 656000 3840   | CP-OFDM<br>16 QAM  | 1@49  | 22.71 | 22.91 | 25.82 | 23.72 | 0.2356 |
| 77      | 30 | 20 | 656000 3840   | CP-OFDM<br>64 QAM  | 25@12 | 21.05 | 21.48 | 24.28 | 22.18 | 0.1652 |
| 77      | 30 | 20 | 656000 3840   | CP-OFDM<br>64 QAM  | 1@1   | 21.05 | 21.1  | 24.09 | 21.99 | 0.1580 |
| 77      | 30 | 20 | 656000 3840   | CP-OFDM<br>64 QAM  | 1@49  | 21.19 | 21.16 | 24.19 | 22.09 | 0.1616 |
| 77      | 30 | 20 | 656000 3840   | CP-OFDM<br>256 QAM | 25@12 | 18.02 | 18.35 | 21.20 | 19.10 | 0.0813 |
| 77      | 30 | 20 | 656000 3840   | CP-OFDM<br>256 QAM | 1@1   | 17.89 | 18.22 | 21.07 | 18.97 | 0.0789 |
| 77      | 30 | 20 | 656000 3840   | CP-OFDM<br>256 QAM | 1@49  | 18.03 | 18.23 | 21.14 | 19.04 | 0.0802 |
| 77      | 30 | 20 | 6646663969.99 | CP-OFDM<br>QPSK    | 25@12 | 23.13 | 23.2  | 26.18 | 24.08 | 0.2556 |
| 77      | 30 | 20 | 6646663969.99 | CP-OFDM<br>QPSK    | 1@1   | 23.13 | 23.08 | 26.12 | 24.02 | 0.2521 |
| 77      | 30 | 20 | 6646663969.99 | CP-OFDM<br>QPSK    | 1@49  | 23.25 | 23.21 | 26.24 | 24.14 | 0.2594 |
| 77      | 30 | 20 | 6646663969.99 | CP-OFDM<br>16 QAM  | 25@12 | 22.67 | 22.61 | 25.65 | 23.55 | 0.2265 |
| 77      | 30 | 20 | 6646663969.99 | CP-OFDM<br>16 QAM  | 1@1   | 22.73 | 22.38 | 25.57 | 23.47 | 0.2223 |
| 77      | 30 | 20 | 6646663969.99 | CP-OFDM<br>16 QAM  | 1@49  | 22.9  | 22.58 | 25.75 | 23.65 | 0.2319 |
| 77      | 30 | 20 | 6646663969.99 | CP-OFDM<br>64 QAM  | 25@12 | 21.08 | 21.1  | 24.10 | 22.00 | 0.1585 |

|    |    |    |               |                    |       |       |       |       |       |        |
|----|----|----|---------------|--------------------|-------|-------|-------|-------|-------|--------|
| 77 | 30 | 20 | 6646663969.99 | CP-OFDM<br>64 QAM  | 1@1   | 21.13 | 20.85 | 24.00 | 21.90 | 0.1550 |
| 77 | 30 | 20 | 6646663969.99 | CP-OFDM<br>64 QAM  | 1@49  | 21.24 | 21.08 | 24.17 | 22.07 | 0.1611 |
| 77 | 30 | 20 | 6646663969.99 | CP-OFDM<br>256 QAM | 25@12 | 18.06 | 18.04 | 21.06 | 18.96 | 0.0787 |
| 77 | 30 | 20 | 6646663969.99 | CP-OFDM<br>256 QAM | 1@1   | 18.06 | 18.18 | 21.13 | 19.03 | 0.0800 |
| 77 | 30 | 20 | 6646663969.99 | CP-OFDM<br>256 QAM | 1@49  | 18.22 | 18.32 | 21.28 | 19.18 | 0.0828 |
| 77 | 30 | 30 | 6476683715.02 | CP-OFDM<br>QPSK    | 39@19 | 23.17 | 23.28 | 26.24 | 24.14 | 0.2592 |
| 77 | 30 | 30 | 6476683715.02 | CP-OFDM<br>QPSK    | 1@1   | 23.1  | 23.2  | 26.16 | 24.06 | 0.2547 |
| 77 | 30 | 30 | 6476683715.02 | CP-OFDM<br>QPSK    | 1@76  | 22.95 | 23.25 | 26.11 | 24.01 | 0.2519 |
| 77 | 30 | 30 | 6476683715.02 | CP-OFDM<br>16 QAM  | 39@19 | 22.71 | 22.77 | 25.75 | 23.65 | 0.2318 |
| 77 | 30 | 30 | 6476683715.02 | CP-OFDM<br>16 QAM  | 1@1   | 22.75 | 22.71 | 25.74 | 23.64 | 0.2312 |
| 77 | 30 | 30 | 6476683715.02 | CP-OFDM<br>16 QAM  | 1@76  | 22.69 | 22.73 | 25.72 | 23.62 | 0.2302 |
| 77 | 30 | 30 | 6476683715.02 | CP-OFDM<br>64 QAM  | 39@19 | 21.14 | 21.23 | 24.20 | 22.10 | 0.1620 |
| 77 | 30 | 30 | 6476683715.02 | CP-OFDM<br>64 QAM  | 1@1   | 21.23 | 20.98 | 24.12 | 22.02 | 0.1591 |
| 77 | 30 | 30 | 6476683715.02 | CP-OFDM<br>64 QAM  | 1@76  | 21.12 | 21.21 | 24.18 | 22.08 | 0.1613 |
| 77 | 30 | 30 | 6476683715.02 | CP-OFDM<br>256 QAM | 39@19 | 18.11 | 18.24 | 21.19 | 19.09 | 0.0810 |
| 77 | 30 | 30 | 6476683715.02 | CP-OFDM<br>256 QAM | 1@1   | 18.15 | 18.26 | 21.22 | 19.12 | 0.0816 |
| 77 | 30 | 30 | 6476683715.02 | CP-OFDM<br>256 QAM | 1@76  | 17.92 | 18.46 | 21.21 | 19.11 | 0.0814 |
| 77 | 30 | 30 | 656000 3840   | CP-OFDM<br>QPSK    | 39@19 | 23.07 | 23.43 | 26.26 | 24.16 | 0.2609 |
| 77 | 30 | 30 | 656000 3840   | CP-OFDM<br>QPSK    | 1@1   | 22.92 | 23.33 | 26.14 | 24.04 | 0.2535 |
| 77 | 30 | 30 | 656000 3840   | CP-OFDM<br>QPSK    | 1@76  | 23.07 | 23.52 | 26.31 | 24.21 | 0.2637 |
| 77 | 30 | 30 | 656000 3840   | CP-OFDM<br>16 QAM  | 39@19 | 22.61 | 22.95 | 25.79 | 23.69 | 0.2341 |
| 77 | 30 | 30 | 656000 3840   | CP-OFDM            | 1@1   | 22.55 | 22.74 | 25.66 | 23.56 | 0.2268 |

|        |    |    |        |         |                    |       |       |       |       |       |        |
|--------|----|----|--------|---------|--------------------|-------|-------|-------|-------|-------|--------|
| 16 QAM |    |    |        |         |                    |       |       |       |       |       |        |
| 77     | 30 | 30 | 656000 | 3840    | CP-OFDM<br>16 QAM  | 1@76  | 22.55 | 22.98 | 25.78 | 23.68 | 0.2334 |
| 77     | 30 | 30 | 656000 | 3840    | CP-OFDM<br>64 QAM  | 39@19 | 21.05 | 21.37 | 24.22 | 22.12 | 0.1631 |
| 77     | 30 | 30 | 656000 | 3840    | CP-OFDM<br>64 QAM  | 1@1   | 21.06 | 21.08 | 24.08 | 21.98 | 0.1578 |
| 77     | 30 | 30 | 656000 | 3840    | CP-OFDM<br>64 QAM  | 1@76  | 21.12 | 21.43 | 24.29 | 22.19 | 0.1655 |
| 77     | 30 | 30 | 656000 | 3840    | CP-OFDM<br>256 QAM | 39@19 | 18.03 | 18.39 | 21.22 | 19.12 | 0.0817 |
| 77     | 30 | 30 | 656000 | 3840    | CP-OFDM<br>256 QAM | 1@1   | 17.93 | 18.43 | 21.20 | 19.10 | 0.0812 |
| 77     | 30 | 30 | 656000 | 3840    | CP-OFDM<br>256 QAM | 1@76  | 17.9  | 18.23 | 21.08 | 18.98 | 0.0790 |
| 77     | 30 | 30 | 664332 | 3964.98 | CP-OFDM<br>QPSK    | 39@19 | 23.1  | 23.04 | 26.08 | 23.98 | 0.2501 |
| 77     | 30 | 30 | 664332 | 3964.98 | CP-OFDM<br>QPSK    | 1@1   | 23.05 | 23.04 | 26.06 | 23.96 | 0.2486 |
| 77     | 30 | 30 | 664332 | 3964.98 | CP-OFDM<br>QPSK    | 1@76  | 23.23 | 23.17 | 26.21 | 24.11 | 0.2577 |
| 77     | 30 | 30 | 664332 | 3964.98 | CP-OFDM<br>16 QAM  | 39@19 | 22.63 | 22.57 | 25.61 | 23.51 | 0.2244 |
| 77     | 30 | 30 | 664332 | 3964.98 | CP-OFDM<br>16 QAM  | 1@1   | 22.45 | 22.47 | 25.47 | 23.37 | 0.2173 |
| 77     | 30 | 30 | 664332 | 3964.98 | CP-OFDM<br>16 QAM  | 1@76  | 22.58 | 22.82 | 25.71 | 23.61 | 0.2297 |
| 77     | 30 | 30 | 664332 | 3964.98 | CP-OFDM<br>64 QAM  | 39@19 | 21.11 | 21.01 | 24.07 | 21.97 | 0.1574 |
| 77     | 30 | 30 | 664332 | 3964.98 | CP-OFDM<br>64 QAM  | 1@1   | 21.15 | 20.84 | 24.01 | 21.91 | 0.1552 |
| 77     | 30 | 30 | 664332 | 3964.98 | CP-OFDM<br>64 QAM  | 1@76  | 21.25 | 20.97 | 24.12 | 22.02 | 0.1593 |
| 77     | 30 | 30 | 664332 | 3964.98 | CP-OFDM<br>256 QAM | 39@19 | 18.08 | 18.04 | 21.07 | 18.97 | 0.0789 |
| 77     | 30 | 30 | 664332 | 3964.98 | CP-OFDM<br>256 QAM | 1@1   | 17.98 | 18.19 | 21.10 | 19.00 | 0.0794 |
| 77     | 30 | 30 | 664332 | 3964.98 | CP-OFDM<br>256 QAM | 1@76  | 18.07 | 18.31 | 21.20 | 19.10 | 0.0813 |
| 77     | 30 | 40 | 648000 | 3720    | CP-OFDM<br>QPSK    | 53@26 | 23.16 | 23.28 | 26.23 | 24.13 | 0.2589 |
| 77     | 30 | 40 | 648000 | 3720    | CP-OFDM<br>QPSK    | 1@1   | 23.35 | 23.35 | 26.36 | 24.26 | 0.2667 |

|    |    |    |        |      |                    |       |       |       |       |       |        |
|----|----|----|--------|------|--------------------|-------|-------|-------|-------|-------|--------|
| 77 | 30 | 40 | 648000 | 3720 | CP-OFDM<br>QPSK    | 1@104 | 23.09 | 23.26 | 26.19 | 24.09 | 0.2562 |
| 77 | 30 | 40 | 648000 | 3720 | CP-OFDM<br>16 QAM  | 53@26 | 22.64 | 22.77 | 25.72 | 23.62 | 0.2299 |
| 77 | 30 | 40 | 648000 | 3720 | CP-OFDM<br>16 QAM  | 1@1   | 22.88 | 22.76 | 25.83 | 23.73 | 0.2361 |
| 77 | 30 | 40 | 648000 | 3720 | CP-OFDM<br>16 QAM  | 1@104 | 22.58 | 22.72 | 25.66 | 23.56 | 0.2270 |
| 77 | 30 | 40 | 648000 | 3720 | CP-OFDM<br>64 QAM  | 53@26 | 21.14 | 21.27 | 24.22 | 22.12 | 0.1628 |
| 77 | 30 | 40 | 648000 | 3720 | CP-OFDM<br>64 QAM  | 1@1   | 21.47 | 20.98 | 24.24 | 22.14 | 0.1638 |
| 77 | 30 | 40 | 648000 | 3720 | CP-OFDM<br>64 QAM  | 1@104 | 21.18 | 20.96 | 24.08 | 21.98 | 0.1578 |
| 77 | 30 | 40 | 648000 | 3720 | CP-OFDM<br>256 QAM | 53@26 | 18.11 | 18.19 | 21.16 | 19.06 | 0.0805 |
| 77 | 30 | 40 | 648000 | 3720 | CP-OFDM<br>256 QAM | 1@1   | 18.27 | 18.51 | 21.40 | 19.30 | 0.0852 |
| 77 | 30 | 40 | 648000 | 3720 | CP-OFDM<br>256 QAM | 1@104 | 18.01 | 18.4  | 21.22 | 19.12 | 0.0817 |
| 77 | 30 | 40 | 656000 | 3840 | CP-OFDM<br>QPSK    | 53@26 | 23.07 | 23.43 | 26.26 | 24.16 | 0.2609 |
| 77 | 30 | 40 | 656000 | 3840 | CP-OFDM<br>QPSK    | 1@1   | 23.1  | 23.4  | 26.26 | 24.16 | 0.2608 |
| 77 | 30 | 40 | 656000 | 3840 | CP-OFDM<br>QPSK    | 1@104 | 23.07 | 23.36 | 26.23 | 24.13 | 0.2587 |
| 77 | 30 | 40 | 656000 | 3840 | CP-OFDM<br>16 QAM  | 53@26 | 22.56 | 22.88 | 25.73 | 23.63 | 0.2308 |
| 77 | 30 | 40 | 656000 | 3840 | CP-OFDM<br>16 QAM  | 1@1   | 22.6  | 22.94 | 25.78 | 23.68 | 0.2335 |
| 77 | 30 | 40 | 656000 | 3840 | CP-OFDM<br>16 QAM  | 1@104 | 22.6  | 22.8  | 25.71 | 23.61 | 0.2297 |
| 77 | 30 | 40 | 656000 | 3840 | CP-OFDM<br>64 QAM  | 53@26 | 21.02 | 21.43 | 24.24 | 22.14 | 0.1637 |
| 77 | 30 | 40 | 656000 | 3840 | CP-OFDM<br>64 QAM  | 1@1   | 21.23 | 21.14 | 24.20 | 22.10 | 0.1620 |
| 77 | 30 | 40 | 656000 | 3840 | CP-OFDM<br>64 QAM  | 1@104 | 21.2  | 21.14 | 24.18 | 22.08 | 0.1615 |
| 77 | 30 | 40 | 656000 | 3840 | CP-OFDM<br>256 QAM | 53@26 | 18.1  | 18.4  | 21.26 | 19.16 | 0.0825 |
| 77 | 30 | 40 | 656000 | 3840 | CP-OFDM<br>256 QAM | 1@1   | 18.07 | 18.61 | 21.36 | 19.26 | 0.0843 |
| 77 | 30 | 40 | 656000 | 3840 | CP-OFDM            | 1@104 | 18.01 | 18.56 | 21.30 | 19.20 | 0.0833 |

|         |    |    |               |      |                    |       |       |       |       |       |        |
|---------|----|----|---------------|------|--------------------|-------|-------|-------|-------|-------|--------|
| 256 QAM |    |    |               |      |                    |       |       |       |       |       |        |
| 77      | 30 | 40 | 664000        | 3960 | CP-OFDM<br>QPSK    | 53@26 | 23.18 | 23.13 | 26.17 | 24.07 | 0.2550 |
| 77      | 30 | 40 | 664000        | 3960 | CP-OFDM<br>QPSK    | 1@1   | 23.2  | 23.1  | 26.16 | 24.06 | 0.2547 |
| 77      | 30 | 40 | 664000        | 3960 | CP-OFDM<br>QPSK    | 1@104 | 23.33 | 23.23 | 26.29 | 24.19 | 0.2625 |
| 77      | 30 | 40 | 664000        | 3960 | CP-OFDM<br>16 QAM  | 53@26 | 22.67 | 22.57 | 25.63 | 23.53 | 0.2255 |
| 77      | 30 | 40 | 664000        | 3960 | CP-OFDM<br>16 QAM  | 1@1   | 22.68 | 22.63 | 25.67 | 23.57 | 0.2273 |
| 77      | 30 | 40 | 664000        | 3960 | CP-OFDM<br>16 QAM  | 1@104 | 22.85 | 22.75 | 25.81 | 23.71 | 0.2350 |
| 77      | 30 | 40 | 664000        | 3960 | CP-OFDM<br>64 QAM  | 53@26 | 21.12 | 21.09 | 24.12 | 22.02 | 0.1590 |
| 77      | 30 | 40 | 664000        | 3960 | CP-OFDM<br>64 QAM  | 1@1   | 21.4  | 20.89 | 24.16 | 22.06 | 0.1608 |
| 77      | 30 | 40 | 664000        | 3960 | CP-OFDM<br>64 QAM  | 1@104 | 21.44 | 21.02 | 24.25 | 22.15 | 0.1639 |
| 77      | 30 | 40 | 664000        | 3960 | CP-OFDM<br>256 QAM | 53@26 | 18.16 | 18.04 | 21.11 | 19.01 | 0.0796 |
| 77      | 30 | 40 | 664000        | 3960 | CP-OFDM<br>256 QAM | 1@1   | 18.13 | 18.3  | 21.23 | 19.13 | 0.0818 |
| 77      | 30 | 40 | 664000        | 3960 | CP-OFDM<br>256 QAM | 1@104 | 18.23 | 18.38 | 21.32 | 19.22 | 0.0835 |
| 77      | 30 | 50 | 6483343725.01 |      | CP-OFDM<br>QPSK    | 67@33 | 22.99 | 23.14 | 26.08 | 23.98 | 0.2498 |
| 77      | 30 | 50 | 6483343725.01 |      | CP-OFDM<br>QPSK    | 1@1   | 23.05 | 22.99 | 26.03 | 23.93 | 0.2472 |
| 77      | 30 | 50 | 6483343725.01 |      | CP-OFDM<br>QPSK    | 1@131 | 22.73 | 22.99 | 25.87 | 23.77 | 0.2384 |
| 77      | 30 | 50 | 6483343725.01 |      | CP-OFDM<br>16 QAM  | 67@33 | 22.51 | 22.66 | 25.60 | 23.50 | 0.2237 |
| 77      | 30 | 50 | 6483343725.01 |      | CP-OFDM<br>16 QAM  | 1@1   | 22.69 | 22.48 | 25.60 | 23.50 | 0.2237 |
| 77      | 30 | 50 | 6483343725.01 |      | CP-OFDM<br>16 QAM  | 1@131 | 22.31 | 22.49 | 25.41 | 23.31 | 0.2143 |
| 77      | 30 | 50 | 6483343725.01 |      | CP-OFDM<br>64 QAM  | 67@33 | 21    | 21.13 | 24.08 | 21.98 | 0.1576 |
| 77      | 30 | 50 | 6483343725.01 |      | CP-OFDM<br>64 QAM  | 1@1   | 21.09 | 20.85 | 23.98 | 21.88 | 0.1542 |
| 77      | 30 | 50 | 6483343725.01 |      | CP-OFDM<br>64 QAM  | 1@131 | 20.78 | 20.87 | 23.84 | 21.74 | 0.1491 |

|    |    |    |               |                    |       |       |       |       |       |        |
|----|----|----|---------------|--------------------|-------|-------|-------|-------|-------|--------|
| 77 | 30 | 50 | 6483343725.01 | CP-OFDM<br>256 QAM | 67@33 | 17.98 | 18.08 | 21.04 | 18.94 | 0.0784 |
| 77 | 30 | 50 | 6483343725.01 | CP-OFDM<br>256 QAM | 1@1   | 18.02 | 18.19 | 21.12 | 19.02 | 0.0797 |
| 77 | 30 | 50 | 6483343725.01 | CP-OFDM<br>256 QAM | 1@131 | 17.64 | 18.14 | 20.91 | 18.81 | 0.0760 |
| 77 | 30 | 50 | 656000 3840   | CP-OFDM<br>QPSK    | 67@33 | 22.91 | 23.23 | 26.08 | 23.98 | 0.2502 |
| 77 | 30 | 50 | 656000 3840   | CP-OFDM<br>QPSK    | 1@1   | 22.85 | 23.15 | 26.01 | 23.91 | 0.2462 |
| 77 | 30 | 50 | 656000 3840   | CP-OFDM<br>QPSK    | 1@131 | 22.9  | 23.29 | 26.11 | 24.01 | 0.2517 |
| 77 | 30 | 50 | 656000 3840   | CP-OFDM<br>16 QAM  | 67@33 | 22.43 | 22.83 | 25.64 | 23.54 | 0.2262 |
| 77 | 30 | 50 | 656000 3840   | CP-OFDM<br>16 QAM  | 1@1   | 22.34 | 22.61 | 25.49 | 23.39 | 0.2181 |
| 77 | 30 | 50 | 656000 3840   | CP-OFDM<br>16 QAM  | 1@131 | 22.35 | 22.77 | 25.58 | 23.48 | 0.2226 |
| 77 | 30 | 50 | 656000 3840   | CP-OFDM<br>64 QAM  | 67@33 | 20.87 | 21.29 | 24.10 | 22.00 | 0.1583 |
| 77 | 30 | 50 | 656000 3840   | CP-OFDM<br>64 QAM  | 1@1   | 20.91 | 20.92 | 23.93 | 21.83 | 0.1522 |
| 77 | 30 | 50 | 656000 3840   | CP-OFDM<br>64 QAM  | 1@131 | 20.97 | 21.09 | 24.04 | 21.94 | 0.1563 |
| 77 | 30 | 50 | 656000 3840   | CP-OFDM<br>256 QAM | 67@33 | 17.86 | 18.25 | 21.07 | 18.97 | 0.0789 |
| 77 | 30 | 50 | 656000 3840   | CP-OFDM<br>256 QAM | 1@1   | 17.79 | 18.38 | 21.11 | 19.01 | 0.0795 |
| 77 | 30 | 50 | 656000 3840   | CP-OFDM<br>256 QAM | 1@131 | 17.81 | 18.43 | 21.14 | 19.04 | 0.0802 |
| 77 | 30 | 50 | 6636663954.99 | CP-OFDM<br>QPSK    | 67@33 | 22.92 | 22.97 | 25.96 | 23.86 | 0.2430 |
| 77 | 30 | 50 | 6636663954.99 | CP-OFDM<br>QPSK    | 1@1   | 22.95 | 22.98 | 25.98 | 23.88 | 0.2441 |
| 77 | 30 | 50 | 6636663954.99 | CP-OFDM<br>QPSK    | 1@131 | 23    | 23.05 | 26.04 | 23.94 | 0.2475 |
| 77 | 30 | 50 | 6636663954.99 | CP-OFDM<br>16 QAM  | 67@33 | 22.49 | 22.5  | 25.51 | 23.41 | 0.2190 |
| 77 | 30 | 50 | 6636663954.99 | CP-OFDM<br>16 QAM  | 1@1   | 22.49 | 22.52 | 25.52 | 23.42 | 0.2195 |
| 77 | 30 | 50 | 6636663954.99 | CP-OFDM<br>16 QAM  | 1@131 | 22.55 | 22.57 | 25.57 | 23.47 | 0.2223 |
| 77 | 30 | 50 | 6636663954.99 | CP-OFDM            | 67@33 | 20.93 | 20.98 | 23.97 | 21.87 | 0.1537 |

|        |    |    |               |                    |       |       |       |       |       |        |
|--------|----|----|---------------|--------------------|-------|-------|-------|-------|-------|--------|
| 64 QAM |    |    |               |                    |       |       |       |       |       |        |
| 77     | 30 | 50 | 6636663954.99 | CP-OFDM<br>64 QAM  | 1@1   | 21.08 | 20.73 | 23.92 | 21.82 | 0.1520 |
| 77     | 30 | 50 | 6636663954.99 | CP-OFDM<br>64 QAM  | 1@131 | 21.09 | 20.8  | 23.96 | 21.86 | 0.1534 |
| 77     | 30 | 50 | 6636663954.99 | CP-OFDM<br>256 QAM | 67@33 | 17.94 | 17.97 | 20.97 | 18.87 | 0.0770 |
| 77     | 30 | 50 | 6636663954.99 | CP-OFDM<br>256 QAM | 1@1   | 17.93 | 18.16 | 21.06 | 18.96 | 0.0786 |
| 77     | 30 | 50 | 6636663954.99 | CP-OFDM<br>256 QAM | 1@131 | 17.96 | 18.22 | 21.10 | 19.00 | 0.0795 |
| 77     | 30 | 60 | 6486683730.02 | CP-OFDM<br>QPSK    | 81@40 | 22.93 | 23.08 | 26.02 | 23.92 | 0.2464 |
| 77     | 30 | 60 | 6486683730.02 | CP-OFDM<br>QPSK    | 1@1   | 23.07 | 23.05 | 26.07 | 23.97 | 0.2495 |
| 77     | 30 | 60 | 6486683730.02 | CP-OFDM<br>QPSK    | 1@160 | 22.71 | 23.04 | 25.89 | 23.79 | 0.2392 |
| 77     | 30 | 60 | 6486683730.02 | CP-OFDM<br>16 QAM  | 81@40 | 22.4  | 22.59 | 25.51 | 23.41 | 0.2191 |
| 77     | 30 | 60 | 6486683730.02 | CP-OFDM<br>16 QAM  | 1@1   | 22.75 | 22.52 | 25.65 | 23.55 | 0.2263 |
| 77     | 30 | 60 | 6486683730.02 | CP-OFDM<br>16 QAM  | 1@160 | 22.38 | 22.56 | 25.48 | 23.38 | 0.2178 |
| 77     | 30 | 60 | 6486683730.02 | CP-OFDM<br>64 QAM  | 81@40 | 20.96 | 21.11 | 24.05 | 21.95 | 0.1565 |
| 77     | 30 | 60 | 6486683730.02 | CP-OFDM<br>64 QAM  | 1@1   | 21.08 | 20.79 | 23.95 | 21.85 | 0.1530 |
| 77     | 30 | 60 | 6486683730.02 | CP-OFDM<br>64 QAM  | 1@160 | 20.74 | 20.78 | 23.77 | 21.67 | 0.1469 |
| 77     | 30 | 60 | 6486683730.02 | CP-OFDM<br>256 QAM | 81@40 | 17.94 | 18.04 | 21.00 | 18.90 | 0.0776 |
| 77     | 30 | 60 | 6486683730.02 | CP-OFDM<br>256 QAM | 1@1   | 18.01 | 18.14 | 21.09 | 18.99 | 0.0792 |
| 77     | 30 | 60 | 6486683730.02 | CP-OFDM<br>256 QAM | 1@160 | 17.67 | 18.2  | 20.95 | 18.85 | 0.0768 |
| 77     | 30 | 60 | 656000 3840   | CP-OFDM<br>QPSK    | 81@40 | 22.9  | 23.29 | 26.11 | 24.01 | 0.2517 |
| 77     | 30 | 60 | 656000 3840   | CP-OFDM<br>QPSK    | 1@1   | 22.73 | 23.22 | 25.99 | 23.89 | 0.2450 |
| 77     | 30 | 60 | 656000 3840   | CP-OFDM<br>QPSK    | 1@160 | 22.75 | 23.14 | 25.96 | 23.86 | 0.2432 |
| 77     | 30 | 60 | 656000 3840   | CP-OFDM<br>16 QAM  | 81@40 | 22.36 | 22.81 | 25.60 | 23.50 | 0.2239 |

|    |    |    |               |      |                    |       |       |       |       |       |        |
|----|----|----|---------------|------|--------------------|-------|-------|-------|-------|-------|--------|
| 77 | 30 | 60 | 656000        | 3840 | CP-OFDM<br>16 QAM  | 1@1   | 22.31 | 22.64 | 25.49 | 23.39 | 0.2182 |
| 77 | 30 | 60 | 656000        | 3840 | CP-OFDM<br>16 QAM  | 1@160 | 22.51 | 22.63 | 25.58 | 23.48 | 0.2229 |
| 77 | 30 | 60 | 656000        | 3840 | CP-OFDM<br>64 QAM  | 81@40 | 20.91 | 21.26 | 24.10 | 22.00 | 0.1584 |
| 77 | 30 | 60 | 656000        | 3840 | CP-OFDM<br>64 QAM  | 1@1   | 20.81 | 21.02 | 23.93 | 21.83 | 0.1523 |
| 77 | 30 | 60 | 656000        | 3840 | CP-OFDM<br>64 QAM  | 1@160 | 21.03 | 20.99 | 24.02 | 21.92 | 0.1556 |
| 77 | 30 | 60 | 656000        | 3840 | CP-OFDM<br>256 QAM | 81@40 | 17.9  | 18.27 | 21.10 | 19.00 | 0.0794 |
| 77 | 30 | 60 | 656000        | 3840 | CP-OFDM<br>256 QAM | 1@1   | 17.99 | 18.37 | 21.19 | 19.09 | 0.0812 |
| 77 | 30 | 60 | 656000        | 3840 | CP-OFDM<br>256 QAM | 1@160 | 17.81 | 18.33 | 21.09 | 18.99 | 0.0792 |
| 77 | 30 | 60 | 6633323949.98 |      | CP-OFDM<br>QPSK    | 81@40 | 22.91 | 22.97 | 25.95 | 23.85 | 0.2427 |
| 77 | 30 | 60 | 6633323949.98 |      | CP-OFDM<br>QPSK    | 1@1   | 22.74 | 23.07 | 25.92 | 23.82 | 0.2409 |
| 77 | 30 | 60 | 6633323949.98 |      | CP-OFDM<br>QPSK    | 1@160 | 22.75 | 23.07 | 25.92 | 23.82 | 0.2412 |
| 77 | 30 | 60 | 6633323949.98 |      | CP-OFDM<br>16 QAM  | 81@40 | 22.32 | 22.54 | 25.44 | 23.34 | 0.2159 |
| 77 | 30 | 60 | 6633323949.98 |      | CP-OFDM<br>16 QAM  | 1@1   | 22.53 | 22.58 | 25.57 | 23.47 | 0.2221 |
| 77 | 30 | 60 | 6633323949.98 |      | CP-OFDM<br>16 QAM  | 1@160 | 22.48 | 22.61 | 25.56 | 23.46 | 0.2216 |
| 77 | 30 | 60 | 6633323949.98 |      | CP-OFDM<br>64 QAM  | 81@40 | 20.86 | 21.02 | 23.95 | 21.85 | 0.1531 |
| 77 | 30 | 60 | 6633323949.98 |      | CP-OFDM<br>64 QAM  | 1@1   | 20.88 | 20.87 | 23.89 | 21.79 | 0.1508 |
| 77 | 30 | 60 | 6633323949.98 |      | CP-OFDM<br>64 QAM  | 1@160 | 20.9  | 20.88 | 23.90 | 21.80 | 0.1514 |
| 77 | 30 | 60 | 6633323949.98 |      | CP-OFDM<br>256 QAM | 81@40 | 17.91 | 17.99 | 20.96 | 18.86 | 0.0769 |
| 77 | 30 | 60 | 6633323949.98 |      | CP-OFDM<br>256 QAM | 1@1   | 17.78 | 18.24 | 21.03 | 18.93 | 0.0781 |
| 77 | 30 | 60 | 6633323949.98 |      | CP-OFDM<br>256 QAM | 1@160 | 17.77 | 18.24 | 21.02 | 18.92 | 0.0780 |
| 77 | 30 | 70 | 649000        | 3735 | CP-OFDM<br>QPSK    | 95@47 | 23.24 | 23.05 | 26.16 | 24.06 | 0.2545 |
| 77 | 30 | 70 | 649000        | 3735 | CP-OFDM            | 1@1   | 22.85 | 22.99 | 25.93 | 23.83 | 0.2416 |

|      |    |    |        |      |                    |       |       |       |       |       |        |
|------|----|----|--------|------|--------------------|-------|-------|-------|-------|-------|--------|
| QPSK |    |    |        |      |                    |       |       |       |       |       |        |
| 77   | 30 | 70 | 649000 | 3735 | CP-OFDM<br>QPSK    | 1@187 | 22.89 | 23.06 | 25.99 | 23.89 | 0.2447 |
| 77   | 30 | 70 | 649000 | 3735 | CP-OFDM<br>16 QAM  | 95@47 | 22.23 | 22.52 | 25.39 | 23.29 | 0.2132 |
| 77   | 30 | 70 | 649000 | 3735 | CP-OFDM<br>16 QAM  | 1@1   | 22.52 | 22.35 | 25.45 | 23.35 | 0.2161 |
| 77   | 30 | 70 | 649000 | 3735 | CP-OFDM<br>16 QAM  | 1@187 | 22.11 | 22.38 | 25.26 | 23.16 | 0.2069 |
| 77   | 30 | 70 | 649000 | 3735 | CP-OFDM<br>64 QAM  | 95@47 | 20.83 | 20.98 | 23.92 | 21.82 | 0.1519 |
| 77   | 30 | 70 | 649000 | 3735 | CP-OFDM<br>64 QAM  | 1@1   | 20.96 | 20.72 | 23.85 | 21.75 | 0.1497 |
| 77   | 30 | 70 | 649000 | 3735 | CP-OFDM<br>64 QAM  | 1@187 | 20.56 | 20.72 | 23.65 | 21.55 | 0.1429 |
| 77   | 30 | 70 | 649000 | 3735 | CP-OFDM<br>256 QAM | 95@47 | 17.79 | 18    | 20.91 | 18.81 | 0.0760 |
| 77   | 30 | 70 | 649000 | 3735 | CP-OFDM<br>256 QAM | 1@1   | 17.88 | 18.08 | 20.99 | 18.89 | 0.0775 |
| 77   | 30 | 70 | 649000 | 3735 | CP-OFDM<br>256 QAM | 1@187 | 17.49 | 18.04 | 20.78 | 18.68 | 0.0739 |
| 77   | 30 | 70 | 656000 | 3840 | CP-OFDM<br>QPSK    | 95@47 | 23.08 | 23.18 | 26.14 | 24.04 | 0.2535 |
| 77   | 30 | 70 | 656000 | 3840 | CP-OFDM<br>QPSK    | 1@1   | 22.62 | 23.02 | 25.83 | 23.73 | 0.2363 |
| 77   | 30 | 70 | 656000 | 3840 | CP-OFDM<br>QPSK    | 1@187 | 22.75 | 23.17 | 25.98 | 23.88 | 0.2441 |
| 77   | 30 | 70 | 656000 | 3840 | CP-OFDM<br>16 QAM  | 95@47 | 22.52 | 22.71 | 25.63 | 23.53 | 0.2252 |
| 77   | 30 | 70 | 656000 | 3840 | CP-OFDM<br>16 QAM  | 1@1   | 22.23 | 22.53 | 25.39 | 23.29 | 0.2134 |
| 77   | 30 | 70 | 656000 | 3840 | CP-OFDM<br>16 QAM  | 1@187 | 22.35 | 22.4  | 25.39 | 23.29 | 0.2131 |
| 77   | 30 | 70 | 656000 | 3840 | CP-OFDM<br>64 QAM  | 95@47 | 20.83 | 21.16 | 24.01 | 21.91 | 0.1552 |
| 77   | 30 | 70 | 656000 | 3840 | CP-OFDM<br>64 QAM  | 1@1   | 20.76 | 20.73 | 23.76 | 21.66 | 0.1464 |
| 77   | 30 | 70 | 656000 | 3840 | CP-OFDM<br>64 QAM  | 1@187 | 20.85 | 20.67 | 23.77 | 21.67 | 0.1469 |
| 77   | 30 | 70 | 656000 | 3840 | CP-OFDM<br>256 QAM | 95@47 | 17.78 | 18.17 | 20.99 | 18.89 | 0.0774 |
| 77   | 30 | 70 | 656000 | 3840 | CP-OFDM<br>256 QAM | 1@1   | 17.89 | 18.28 | 21.10 | 19.00 | 0.0794 |

|    |    |    |        |         |                    |        |       |       |       |       |        |
|----|----|----|--------|---------|--------------------|--------|-------|-------|-------|-------|--------|
| 77 | 30 | 70 | 656000 | 3840    | CP-OFDM<br>256 QAM | 1@187  | 17.63 | 18.17 | 20.92 | 18.82 | 0.0762 |
| 77 | 30 | 70 | 663000 | 3945    | CP-OFDM<br>QPSK    | 95@47  | 22.85 | 23.04 | 25.96 | 23.86 | 0.2430 |
| 77 | 30 | 70 | 663000 | 3945    | CP-OFDM<br>QPSK    | 1@1    | 22.69 | 23.01 | 25.86 | 23.76 | 0.2379 |
| 77 | 30 | 70 | 663000 | 3945    | CP-OFDM<br>QPSK    | 1@187  | 22.86 | 23.02 | 25.95 | 23.85 | 0.2427 |
| 77 | 30 | 70 | 663000 | 3945    | CP-OFDM<br>16 QAM  | 95@47  | 22.21 | 22.61 | 25.42 | 23.32 | 0.2150 |
| 77 | 30 | 70 | 663000 | 3945    | CP-OFDM<br>16 QAM  | 1@1    | 22.35 | 22.36 | 25.37 | 23.27 | 0.2121 |
| 77 | 30 | 70 | 663000 | 3945    | CP-OFDM<br>16 QAM  | 1@187  | 22.34 | 22.41 | 25.39 | 23.29 | 0.2131 |
| 77 | 30 | 70 | 663000 | 3945    | CP-OFDM<br>64 QAM  | 95@47  | 21.01 | 21    | 24.02 | 21.92 | 0.1554 |
| 77 | 30 | 70 | 663000 | 3945    | CP-OFDM<br>64 QAM  | 1@1    | 20.77 | 20.79 | 23.79 | 21.69 | 0.1476 |
| 77 | 30 | 70 | 663000 | 3945    | CP-OFDM<br>64 QAM  | 1@187  | 20.72 | 20.73 | 23.74 | 21.64 | 0.1457 |
| 77 | 30 | 70 | 663000 | 3945    | CP-OFDM<br>256 QAM | 95@47  | 17.8  | 17.97 | 20.90 | 18.80 | 0.0758 |
| 77 | 30 | 70 | 663000 | 3945    | CP-OFDM<br>256 QAM | 1@1    | 17.71 | 18.15 | 20.95 | 18.85 | 0.0767 |
| 77 | 30 | 70 | 663000 | 3945    | CP-OFDM<br>256 QAM | 1@187  | 17.66 | 18.11 | 20.90 | 18.80 | 0.0759 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>QPSK    | 109@54 | 22.71 | 22.96 | 25.85 | 23.75 | 0.2370 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>QPSK    | 1@1    | 22.91 | 22.88 | 25.91 | 23.81 | 0.2402 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>QPSK    | 1@215  | 22.48 | 23.04 | 25.78 | 23.68 | 0.2333 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>16 QAM  | 109@54 | 22.2  | 22.52 | 25.37 | 23.27 | 0.2125 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>16 QAM  | 1@1    | 22.39 | 22.25 | 25.33 | 23.23 | 0.2104 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>16 QAM  | 1@215  | 22.02 | 22.44 | 25.25 | 23.15 | 0.2063 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>64 QAM  | 109@54 | 20.74 | 20.97 | 23.87 | 21.77 | 0.1502 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM<br>64 QAM  | 1@1    | 20.84 | 20.67 | 23.77 | 21.67 | 0.1468 |
| 77 | 30 | 80 | 649334 | 3740.01 | CP-OFDM            | 1@215  | 20.45 | 20.81 | 23.64 | 21.54 | 0.1427 |

|        |    |    |               |                    |        |       |       |       |       |        |
|--------|----|----|---------------|--------------------|--------|-------|-------|-------|-------|--------|
| 64 QAM |    |    |               |                    |        |       |       |       |       |        |
| 77     | 30 | 80 | 6493343740.01 | CP-OFDM<br>256 QAM | 109@54 | 17.69 | 17.96 | 20.84 | 18.74 | 0.0748 |
| 77     | 30 | 80 | 6493343740.01 | CP-OFDM<br>256 QAM | 1@1    | 17.8  | 18.04 | 20.93 | 18.83 | 0.0764 |
| 77     | 30 | 80 | 6493343740.01 | CP-OFDM<br>256 QAM | 1@215  | 18.52 | 18.13 | 21.34 | 19.24 | 0.0839 |
| 77     | 30 | 80 | 656000 3840   | CP-OFDM<br>QPSK    | 109@54 | 22.73 | 23.14 | 25.95 | 23.85 | 0.2427 |
| 77     | 30 | 80 | 656000 3840   | CP-OFDM<br>QPSK    | 1@1    | 22.61 | 23.1  | 25.87 | 23.77 | 0.2384 |
| 77     | 30 | 80 | 656000 3840   | CP-OFDM<br>QPSK    | 1@215  | 22.82 | 23.02 | 25.93 | 23.83 | 0.2416 |
| 77     | 30 | 80 | 656000 3840   | CP-OFDM<br>16 QAM  | 109@54 | 22.25 | 22.72 | 25.50 | 23.40 | 0.2189 |
| 77     | 30 | 80 | 656000 3840   | CP-OFDM<br>16 QAM  | 1@1    | 22.12 | 22.53 | 25.34 | 23.24 | 0.2109 |
| 77     | 30 | 80 | 656000 3840   | CP-OFDM<br>16 QAM  | 1@215  | 22.41 | 22.49 | 25.46 | 23.36 | 0.2168 |
| 77     | 30 | 80 | 656000 3840   | CP-OFDM<br>64 QAM  | 109@54 | 20.79 | 21.13 | 23.97 | 21.87 | 0.1539 |
| 77     | 30 | 80 | 656000 3840   | CP-OFDM<br>64 QAM  | 1@1    | 20.67 | 20.97 | 23.83 | 21.73 | 0.1490 |
| 77     | 30 | 80 | 656000 3840   | CP-OFDM<br>64 QAM  | 1@215  | 20.73 | 20.79 | 23.77 | 21.67 | 0.1469 |
| 77     | 30 | 80 | 656000 3840   | CP-OFDM<br>256 QAM | 109@54 | 17.73 | 18.13 | 20.94 | 18.84 | 0.0766 |
| 77     | 30 | 80 | 656000 3840   | CP-OFDM<br>256 QAM | 1@1    | 17.86 | 18.16 | 21.02 | 18.92 | 0.0780 |
| 77     | 30 | 80 | 656000 3840   | CP-OFDM<br>256 QAM | 1@215  | 17.61 | 18.14 | 20.89 | 18.79 | 0.0757 |
| 77     | 30 | 80 | 6626663939.99 | CP-OFDM<br>QPSK    | 109@54 | 22.74 | 22.91 | 25.84 | 23.74 | 0.2364 |
| 77     | 30 | 80 | 6626663939.99 | CP-OFDM<br>QPSK    | 1@1    | 22.63 | 22.88 | 25.77 | 23.67 | 0.2327 |
| 77     | 30 | 80 | 6626663939.99 | CP-OFDM<br>QPSK    | 1@215  | 22.61 | 22.96 | 25.80 | 23.70 | 0.2344 |
| 77     | 30 | 80 | 6626663939.99 | CP-OFDM<br>16 QAM  | 109@54 | 22.23 | 22.48 | 25.37 | 23.27 | 0.2122 |
| 77     | 30 | 80 | 6626663939.99 | CP-OFDM<br>16 QAM  | 1@1    | 22.18 | 22.42 | 25.31 | 23.21 | 0.2095 |
| 77     | 30 | 80 | 6626663939.99 | CP-OFDM<br>16 QAM  | 1@215  | 22.17 | 22.42 | 25.31 | 23.21 | 0.2093 |

|    |    |    |               |                    |        |       |       |       |       |        |
|----|----|----|---------------|--------------------|--------|-------|-------|-------|-------|--------|
| 77 | 30 | 80 | 6626663939.99 | CP-OFDM<br>64 QAM  | 109@54 | 20.77 | 20.92 | 23.86 | 21.76 | 0.1498 |
| 77 | 30 | 80 | 6626663939.99 | CP-OFDM<br>64 QAM  | 1@1    | 20.84 | 20.57 | 23.72 | 21.62 | 0.1451 |
| 77 | 30 | 80 | 6626663939.99 | CP-OFDM<br>64 QAM  | 1@215  | 20.71 | 20.64 | 23.69 | 21.59 | 0.1441 |
| 77 | 30 | 80 | 6626663939.99 | CP-OFDM<br>256 QAM | 109@54 | 17.7  | 17.9  | 20.81 | 18.71 | 0.0743 |
| 77 | 30 | 80 | 6626663939.99 | CP-OFDM<br>256 QAM | 1@1    | 17.61 | 18.05 | 20.85 | 18.75 | 0.0749 |
| 77 | 30 | 80 | 6626663939.99 | CP-OFDM<br>256 QAM | 1@215  | 17.56 | 18.05 | 20.82 | 18.72 | 0.0745 |
| 77 | 30 | 90 | 6496683745.02 | CP-OFDM<br>QPSK    | 123@61 | 22.71 | 22.99 | 25.86 | 23.76 | 0.2378 |
| 77 | 30 | 90 | 6496683745.02 | CP-OFDM<br>QPSK    | 1@1    | 22.83 | 22.91 | 25.88 | 23.78 | 0.2388 |
| 77 | 30 | 90 | 6496683745.02 | CP-OFDM<br>QPSK    | 1@243  | 22.38 | 22.52 | 25.46 | 23.36 | 0.2168 |
| 77 | 30 | 90 | 6496683745.02 | CP-OFDM<br>16 QAM  | 123@61 | 22.14 | 22.57 | 25.37 | 23.27 | 0.2124 |
| 77 | 30 | 90 | 6496683745.02 | CP-OFDM<br>16 QAM  | 1@1    | 22.39 | 22.36 | 25.39 | 23.29 | 0.2131 |
| 77 | 30 | 90 | 6496683745.02 | CP-OFDM<br>16 QAM  | 1@243  | 22.23 | 22.59 | 25.42 | 23.32 | 0.2150 |
| 77 | 30 | 90 | 6496683745.02 | CP-OFDM<br>64 QAM  | 123@61 | 20.7  | 21.03 | 23.88 | 21.78 | 0.1506 |
| 77 | 30 | 90 | 6496683745.02 | CP-OFDM<br>64 QAM  | 1@1    | 20.87 | 20.7  | 23.80 | 21.70 | 0.1478 |
| 77 | 30 | 90 | 6496683745.02 | CP-OFDM<br>64 QAM  | 1@243  | 20.56 | 21.04 | 23.82 | 21.72 | 0.1485 |
| 77 | 30 | 90 | 6496683745.02 | CP-OFDM<br>256 QAM | 123@61 | 17.65 | 18.01 | 20.84 | 18.74 | 0.0749 |
| 77 | 30 | 90 | 6496683745.02 | CP-OFDM<br>256 QAM | 1@1    | 17.76 | 18    | 20.89 | 18.79 | 0.0757 |
| 77 | 30 | 90 | 6496683745.02 | CP-OFDM<br>256 QAM | 1@243  | 17.89 | 18.27 | 21.09 | 18.99 | 0.0793 |
| 77 | 30 | 90 | 656000 3840   | CP-OFDM<br>QPSK    | 123@61 | 22.78 | 23.11 | 25.96 | 23.86 | 0.2431 |
| 77 | 30 | 90 | 656000 3840   | CP-OFDM<br>QPSK    | 1@1    | 22.59 | 23.07 | 25.85 | 23.75 | 0.2370 |
| 77 | 30 | 90 | 656000 3840   | CP-OFDM<br>QPSK    | 1@243  | 22.65 | 22.98 | 25.83 | 23.73 | 0.2360 |
| 77 | 30 | 90 | 656000 3840   | CP-OFDM            | 123@61 | 22.24 | 22.69 | 25.48 | 23.38 | 0.2178 |

|        |    |     |               |      |                    |        |       |       |       |       |        |
|--------|----|-----|---------------|------|--------------------|--------|-------|-------|-------|-------|--------|
| 16 QAM |    |     |               |      |                    |        |       |       |       |       |        |
| 77     | 30 | 90  | 656000        | 3840 | CP-OFDM<br>16 QAM  | 1@1    | 22.24 | 22.57 | 25.42 | 23.32 | 0.2147 |
| 77     | 30 | 90  | 656000        | 3840 | CP-OFDM<br>16 QAM  | 1@243  | 22.34 | 22.51 | 25.44 | 23.34 | 0.2156 |
| 77     | 30 | 90  | 656000        | 3840 | CP-OFDM<br>64 QAM  | 123@61 | 20.74 | 21.15 | 23.96 | 21.86 | 0.1535 |
| 77     | 30 | 90  | 656000        | 3840 | CP-OFDM<br>64 QAM  | 1@1    | 20.76 | 20.73 | 23.76 | 21.66 | 0.1464 |
| 77     | 30 | 90  | 656000        | 3840 | CP-OFDM<br>64 QAM  | 1@243  | 20.87 | 20.75 | 23.82 | 21.72 | 0.1486 |
| 77     | 30 | 90  | 656000        | 3840 | CP-OFDM<br>256 QAM | 123@61 | 17.69 | 18.14 | 20.93 | 18.83 | 0.0764 |
| 77     | 30 | 90  | 656000        | 3840 | CP-OFDM<br>256 QAM | 1@1    | 17.57 | 18.11 | 20.86 | 18.76 | 0.0751 |
| 77     | 30 | 90  | 656000        | 3840 | CP-OFDM<br>256 QAM | 1@243  | 17.65 | 18.18 | 20.93 | 18.83 | 0.0764 |
| 77     | 30 | 90  | 6623323934.98 |      | CP-OFDM<br>QPSK    | 123@61 | 22.71 | 22.99 | 25.86 | 23.76 | 0.2378 |
| 77     | 30 | 90  | 6623323934.98 |      | CP-OFDM<br>QPSK    | 1@1    | 22.58 | 22.86 | 25.73 | 23.63 | 0.2308 |
| 77     | 30 | 90  | 6623323934.98 |      | CP-OFDM<br>QPSK    | 1@243  | 22.52 | 22.84 | 25.69 | 23.59 | 0.2287 |
| 77     | 30 | 90  | 6623323934.98 |      | CP-OFDM<br>16 QAM  | 123@61 | 22.14 | 22.51 | 25.34 | 23.24 | 0.2108 |
| 77     | 30 | 90  | 6623323934.98 |      | CP-OFDM<br>16 QAM  | 1@1    | 22.2  | 22.27 | 25.25 | 23.15 | 0.2063 |
| 77     | 30 | 90  | 6623323934.98 |      | CP-OFDM<br>16 QAM  | 1@243  | 22.2  | 22.32 | 25.27 | 23.17 | 0.2075 |
| 77     | 30 | 90  | 6623323934.98 |      | CP-OFDM<br>64 QAM  | 123@61 | 20.64 | 20.95 | 23.81 | 21.71 | 0.1482 |
| 77     | 30 | 90  | 6623323934.98 |      | CP-OFDM<br>64 QAM  | 1@1    | 20.65 | 20.66 | 23.67 | 21.57 | 0.1434 |
| 77     | 30 | 90  | 6623323934.98 |      | CP-OFDM<br>64 QAM  | 1@243  | 20.63 | 20.78 | 23.72 | 21.62 | 0.1451 |
| 77     | 30 | 90  | 6623323934.98 |      | CP-OFDM<br>256 QAM | 123@61 | 17.6  | 17.94 | 20.78 | 18.68 | 0.0739 |
| 77     | 30 | 90  | 6623323934.98 |      | CP-OFDM<br>256 QAM | 1@1    | 17.6  | 17.97 | 20.80 | 18.70 | 0.0741 |
| 77     | 30 | 90  | 6623323934.98 |      | CP-OFDM<br>256 QAM | 1@243  | 17.53 | 18.07 | 20.82 | 18.72 | 0.0745 |
| 77     | 30 | 100 | 650000        | 3750 | CP-OFDM<br>QPSK    | 137@68 | 22.57 | 22.97 | 25.78 | 23.68 | 0.2336 |

|    |    |     |        |      |                    |        |       |       |       |       |        |
|----|----|-----|--------|------|--------------------|--------|-------|-------|-------|-------|--------|
| 77 | 30 | 100 | 650000 | 3750 | CP-OFDM<br>QPSK    | 1@1    | 22.86 | 22.92 | 25.90 | 23.80 | 0.2399 |
| 77 | 30 | 100 | 650000 | 3750 | CP-OFDM<br>QPSK    | 1@271  | 22.89 | 23.16 | 26.04 | 23.94 | 0.2476 |
| 77 | 30 | 100 | 650000 | 3750 | CP-OFDM<br>16 QAM  | 137@68 | 22.19 | 22.53 | 25.37 | 23.27 | 0.2125 |
| 77 | 30 | 100 | 650000 | 3750 | CP-OFDM<br>16 QAM  | 1@1    | 22.42 | 22.32 | 25.38 | 23.28 | 0.2128 |
| 77 | 30 | 100 | 650000 | 3750 | CP-OFDM<br>16 QAM  | 1@271  | 22.23 | 22.68 | 25.47 | 23.37 | 0.2173 |
| 77 | 30 | 100 | 650000 | 3750 | CP-OFDM<br>64 QAM  | 137@68 | 20.67 | 21.03 | 23.86 | 21.76 | 0.1501 |
| 77 | 30 | 100 | 650000 | 3750 | CP-OFDM<br>64 QAM  | 1@1    | 20.92 | 20.53 | 23.74 | 21.64 | 0.1459 |
| 77 | 30 | 100 | 650000 | 3750 | CP-OFDM<br>64 QAM  | 1@271  | 20.46 | 20.96 | 23.73 | 21.63 | 0.1455 |
| 77 | 30 | 100 | 650000 | 3750 | CP-OFDM<br>256 QAM | 137@68 | 17.63 | 18    | 20.83 | 18.73 | 0.0746 |
| 77 | 30 | 100 | 650000 | 3750 | CP-OFDM<br>256 QAM | 1@1    | 17.74 | 17.98 | 20.87 | 18.77 | 0.0754 |
| 77 | 30 | 100 | 650000 | 3750 | CP-OFDM<br>256 QAM | 1@271  | 17.95 | 18.33 | 21.15 | 19.05 | 0.0804 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>QPSK    | 137@68 | 22.71 | 23.09 | 25.91 | 23.81 | 0.2407 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>QPSK    | 1@1    | 22.59 | 22.94 | 25.78 | 23.68 | 0.2333 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>QPSK    | 1@271  | 22.7  | 22.98 | 25.85 | 23.75 | 0.2373 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>16 QAM  | 137@68 | 22.29 | 22.7  | 25.51 | 23.41 | 0.2193 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>16 QAM  | 1@1    | 22.12 | 22.4  | 25.27 | 23.17 | 0.2076 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>16 QAM  | 1@271  | 22.32 | 22.46 | 25.40 | 23.30 | 0.2138 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>64 QAM  | 137@68 | 20.76 | 21.17 | 23.98 | 21.88 | 0.1542 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>64 QAM  | 1@1    | 20.62 | 20.75 | 23.70 | 21.60 | 0.1444 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>64 QAM  | 1@271  | 20.71 | 20.86 | 23.80 | 21.70 | 0.1478 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM<br>256 QAM | 137@68 | 17.75 | 18.19 | 20.99 | 18.89 | 0.0774 |
| 77 | 30 | 100 | 656000 | 3840 | CP-OFDM            | 1@1    | 17.57 | 18.07 | 20.84 | 18.74 | 0.0748 |

|         |    |     |        |      |                    |        |       |       |       |       |        |
|---------|----|-----|--------|------|--------------------|--------|-------|-------|-------|-------|--------|
| 256 QAM |    |     |        |      |                    |        |       |       |       |       |        |
| 77      | 30 | 100 | 656000 | 3840 | CP-OFDM<br>256 QAM | 1@271  | 17.66 | 18.21 | 20.95 | 18.85 | 0.0768 |
| 77      | 30 | 100 | 662000 | 3930 | CP-OFDM<br>QPSK    | 137@68 | 22.66 | 22.94 | 25.81 | 23.71 | 0.2351 |
| 77      | 30 | 100 | 662000 | 3930 | CP-OFDM<br>QPSK    | 1@1    | 22.52 | 22.99 | 25.77 | 23.67 | 0.2329 |
| 77      | 30 | 100 | 662000 | 3930 | CP-OFDM<br>QPSK    | 1@271  | 22.61 | 22.94 | 25.79 | 23.69 | 0.2338 |
| 77      | 30 | 100 | 662000 | 3930 | CP-OFDM<br>16 QAM  | 137@68 | 22.21 | 22.46 | 25.35 | 23.25 | 0.2112 |
| 77      | 30 | 100 | 662000 | 3930 | CP-OFDM<br>16 QAM  | 1@1    | 22.27 | 22.41 | 25.35 | 23.25 | 0.2114 |
| 77      | 30 | 100 | 662000 | 3930 | CP-OFDM<br>16 QAM  | 1@271  | 22.23 | 22.41 | 25.33 | 23.23 | 0.2104 |
| 77      | 30 | 100 | 662000 | 3930 | CP-OFDM<br>64 QAM  | 137@68 | 20.73 | 20.98 | 23.87 | 21.77 | 0.1502 |
| 77      | 30 | 100 | 662000 | 3930 | CP-OFDM<br>64 QAM  | 1@1    | 20.64 | 20.73 | 23.70 | 21.60 | 0.1444 |
| 77      | 30 | 100 | 662000 | 3930 | CP-OFDM<br>64 QAM  | 1@271  | 20.66 | 20.82 | 23.75 | 21.65 | 0.1463 |
| 77      | 30 | 100 | 662000 | 3930 | CP-OFDM<br>256 QAM | 137@68 | 17.72 | 17.95 | 20.85 | 18.75 | 0.0749 |
| 77      | 30 | 100 | 662000 | 3930 | CP-OFDM<br>256 QAM | 1@1    | 17.56 | 18.05 | 20.82 | 18.72 | 0.0745 |
| 77      | 30 | 100 | 662000 | 3930 | CP-OFDM<br>256 QAM | 1@271  | 17.86 | 18.17 | 21.03 | 18.93 | 0.0781 |

# FR1 N77 MIMO-ANT7

## Frequency Stability

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation   | RB   | Deviation (ppm) | Verdict | Environment |
|---------|-----------|-----------------|--------|------------|--------------|------|-----------------|---------|-------------|
| 77      | 30        | 20              | 633334 | 3500.01    | CP-OFDM QPSK | 51@0 | 0.00608         | PASS    | NV          |
| 77      | 30        | 20              | 633334 | 3500.01    | CP-OFDM QPSK | 51@0 | 0.00502         | PASS    | LV          |
| 77      | 30        | 20              | 633334 | 3500.01    | CP-OFDM QPSK | 51@0 | 0.00642         | PASS    | HV          |
| 77      | 30        | 20              | 633334 | 3500.01    | CP-OFDM QPSK | 51@0 | 0.00328         | PASS    | -30°C       |
| 77      | 30        | 20              | 633334 | 3500.01    | CP-OFDM QPSK | 51@0 | 0.00284         | PASS    | -20°C       |
| 77      | 30        | 20              | 633334 | 3500.01    | CP-OFDM QPSK | 51@0 | 0.00222         | PASS    | -10°C       |
| 77      | 30        | 20              | 633334 | 3500.01    | CP-OFDM QPSK | 51@0 | 0.00532         | PASS    | 0°C         |
| 77      | 30        | 20              | 633334 | 3500.01    | CP-OFDM QPSK | 51@0 | 0.00499         | PASS    | 10°C        |
| 77      | 30        | 20              | 633334 | 3500.01    | CP-OFDM QPSK | 51@0 | 0.00223         | PASS    | 20°C        |
| 77      | 30        | 20              | 633334 | 3500.01    | CP-OFDM QPSK | 51@0 | 0.00518         | PASS    | 30°C        |
| 77      | 30        | 20              | 633334 | 3500.01    | CP-OFDM QPSK | 51@0 | 0.00558         | PASS    | 40°C        |
| 77      | 30        | 20              | 633334 | 3500.01    | CP-OFDM QPSK | 51@0 | 0.00036         | PASS    | 50°C        |

## Peak to Average Radio

| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation   | RB   | Result (dB) | Limit (dB) | Verdict |
|---------|-----------|-----------------|--------|------------|--------------|------|-------------|------------|---------|
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM QPSK | 51@0 | 9.67        | 13         | PASS    |
| 77      | 30        | 20              | 647334 | 3710.01    | CP-OFDM QPSK | 1@0  | 9.48        | 13         | PASS    |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 51@0 | 9.73        | 13         | PASS    |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK | 1@0  | 9.19        | 13         | PASS    |
| 77      | 30        | 20              | 664666 | 3969.99    | CP-OFDM QPSK | 51@0 | 9.61        | 13         | PASS    |
| 77      | 30        | 20              | 664666 | 3969.99    | CP-OFDM QPSK | 1@0  | 8.64        | 13         | PASS    |

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



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



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



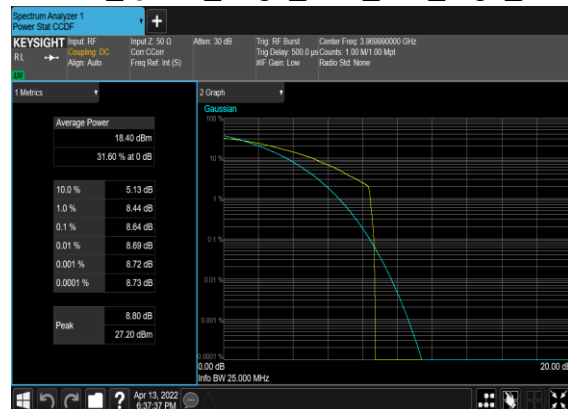
N77(20M)\_CP-  
OFDM\_QPSK\_Edge\_1RB\_Left\_Mid\_CH



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



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

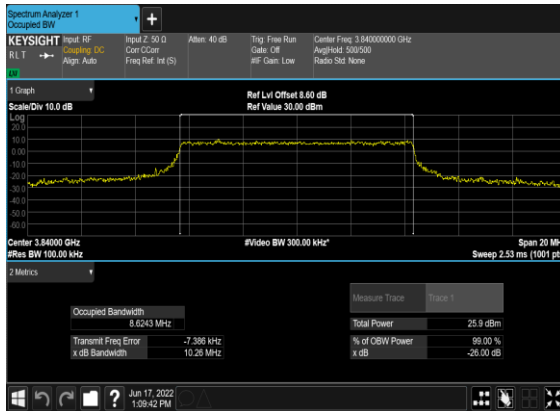


## Occupied Bandwidth

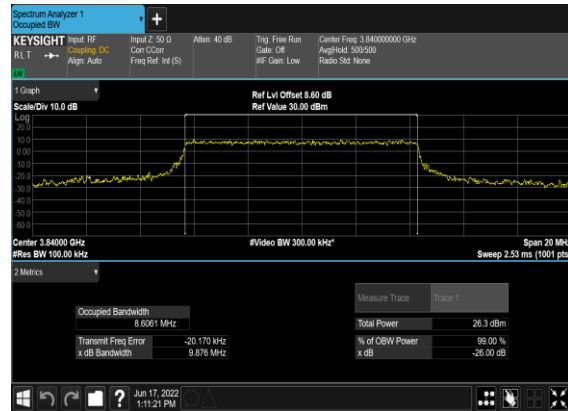
| NR Band | SCS (kHz) | Bandwidth (MHz) | Arfcn  | Freq (MHz) | Modulation      | RB    | OBW (MHz) | 26dB OBW (MHz) |
|---------|-----------|-----------------|--------|------------|-----------------|-------|-----------|----------------|
| 77      | 30        | 10              | 656000 | 3840.0     | CP-OFDM QPSK    | 24@0  | 8.6243    | 10.26          |
| 77      | 30        | 10              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 24@0  | 8.6061    | 9.876          |
| 77      | 30        | 10              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 24@0  | 8.5957    | 10.14          |
| 77      | 30        | 10              | 656000 | 3840.0     | CP-OFDM 256 QAM | 24@0  | 8.6043    | 9.753          |
| 77      | 30        | 15              | 656000 | 3840.0     | CP-OFDM QPSK    | 38@0  | 13.596    | 15.21          |
| 77      | 30        | 15              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 38@0  | 13.589    | 15.44          |
| 77      | 30        | 15              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 38@0  | 13.643    | 14.99          |
| 77      | 30        | 15              | 656000 | 3840.0     | CP-OFDM 256 QAM | 38@0  | 13.59     | 14.68          |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM QPSK    | 51@0  | 18.189    | 20.29          |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 51@0  | 18.192    | 20.1           |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 51@0  | 18.169    | 19.6           |
| 77      | 30        | 20              | 656000 | 3840.0     | CP-OFDM 256 QAM | 51@0  | 18.187    | 19.65          |
| 77      | 30        | 30              | 656000 | 3840.0     | CP-OFDM QPSK    | 78@0  | 27.897    | 34.46          |
| 77      | 30        | 30              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 78@0  | 27.887    | 29.43          |
| 77      | 30        | 30              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 78@0  | 27.793    | 29.71          |
| 77      | 30        | 30              | 656000 | 3840.0     | CP-OFDM 256 QAM | 78@0  | 27.851    | 29.35          |
| 77      | 30        | 40              | 656000 | 3840.0     | CP-OFDM QPSK    | 106@0 | 37.937    | 42.58          |
| 77      | 30        | 40              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 106@0 | 37.861    | 39.82          |
| 77      | 30        | 40              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 106@0 | 37.828    | 39.79          |
| 77      | 30        | 40              | 656000 | 3840.0     | CP-OFDM 256 QAM | 106@0 | 37.845    | 39.2           |
| 77      | 30        | 50              | 656000 | 3840.0     | CP-OFDM QPSK    | 133@0 | 47.526    | 49.46          |
| 77      | 30        | 50              | 656000 | 3840.0     | CP-OFDM 16 QAM  | 133@0 | 47.536    | 49.38          |
| 77      | 30        | 50              | 656000 | 3840.0     | CP-OFDM 64 QAM  | 133@0 | 47.49     | 49.31          |
| 77      | 30        | 50              | 656000 | 3840.0     | CP-OFDM 256 QAM | 133@0 | 47.474    | 49.48          |
| 77      | 30        | 60              | 656000 | 3840.0     | CP-OFDM QPSK    | 162@0 | 57.858    | 60.26          |

|    |    |     |        |        |                    |       |        |       |
|----|----|-----|--------|--------|--------------------|-------|--------|-------|
| 77 | 30 | 60  | 656000 | 3840.0 | CP-OFDM<br>16 QAM  | 162@0 | 57.884 | 60.13 |
| 77 | 30 | 60  | 656000 | 3840.0 | CP-OFDM<br>64 QAM  | 162@0 | 57.916 | 60.17 |
| 77 | 30 | 60  | 656000 | 3840.0 | CP-OFDM<br>256 QAM | 162@0 | 57.976 | 60.03 |
| 77 | 30 | 70  | 656000 | 3840.0 | CP-OFDM<br>QPSK    | 189@0 | 67.532 | 73.26 |
| 77 | 30 | 70  | 656000 | 3840.0 | CP-OFDM<br>16 QAM  | 189@0 | 67.62  | 73.26 |
| 77 | 30 | 70  | 656000 | 3840.0 | CP-OFDM<br>64 QAM  | 189@0 | 67.683 | 70.9  |
| 77 | 30 | 70  | 656000 | 3840.0 | CP-OFDM<br>256 QAM | 189@0 | 67.513 | 69.64 |
| 77 | 30 | 80  | 656000 | 3840.0 | CP-OFDM<br>QPSK    | 217@0 | 77.569 | 80.26 |
| 77 | 30 | 80  | 656000 | 3840.0 | CP-OFDM<br>16 QAM  | 217@0 | 77.645 | 80.23 |
| 77 | 30 | 80  | 656000 | 3840.0 | CP-OFDM<br>64 QAM  | 217@0 | 77.427 | 80.15 |
| 77 | 30 | 80  | 656000 | 3840.0 | CP-OFDM<br>256 QAM | 217@0 | 77.504 | 80.22 |
| 77 | 30 | 90  | 656000 | 3840.0 | CP-OFDM<br>QPSK    | 245@0 | 87.494 | 90.46 |
| 77 | 30 | 90  | 656000 | 3840.0 | CP-OFDM<br>16 QAM  | 245@0 | 87.654 | 90.32 |
| 77 | 30 | 90  | 656000 | 3840.0 | CP-OFDM<br>64 QAM  | 245@0 | 87.662 | 90.72 |
| 77 | 30 | 90  | 656000 | 3840.0 | CP-OFDM<br>256 QAM | 245@0 | 87.546 | 90.29 |
| 77 | 30 | 100 | 656000 | 3840.0 | CP-OFDM<br>QPSK    | 273@0 | 97.677 | 100.7 |
| 77 | 30 | 100 | 656000 | 3840.0 | CP-OFDM<br>16 QAM  | 273@0 | 97.699 | 100.8 |
| 77 | 30 | 100 | 656000 | 3840.0 | CP-OFDM<br>64 QAM  | 273@0 | 97.513 | 100.8 |
| 77 | 30 | 100 | 656000 | 3840.0 | CP-OFDM<br>256 QAM | 273@0 | 97.526 | 100.6 |

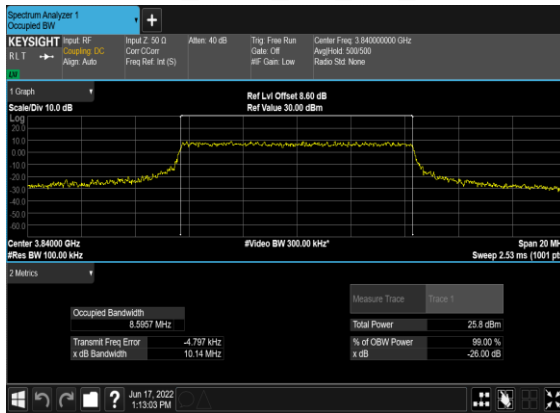
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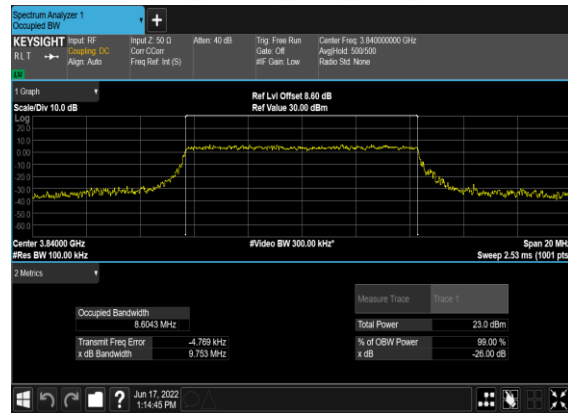
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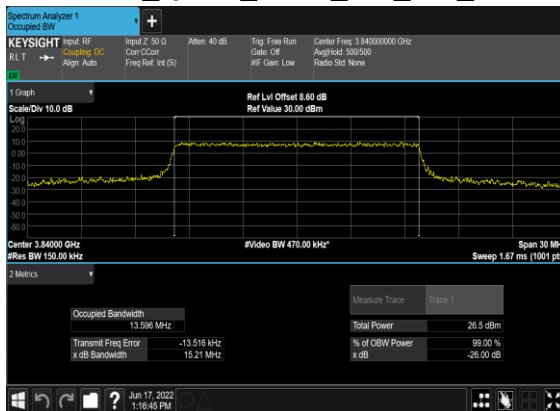
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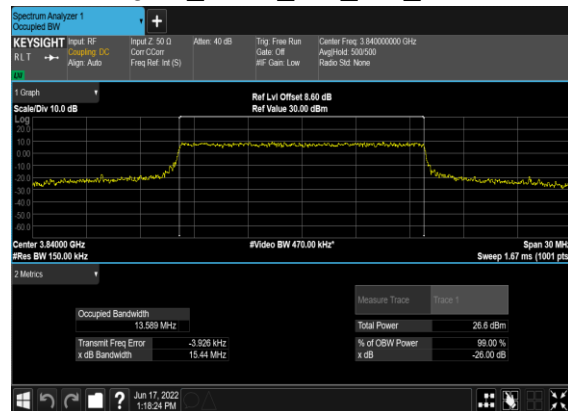
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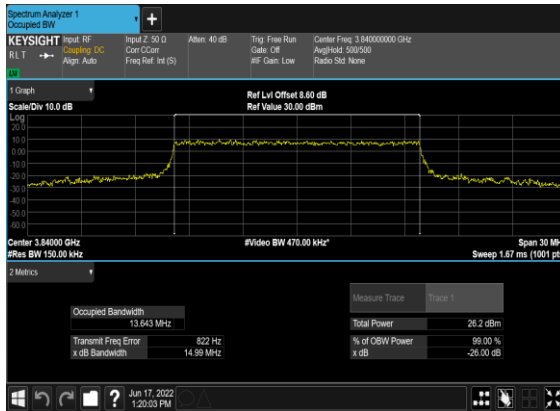
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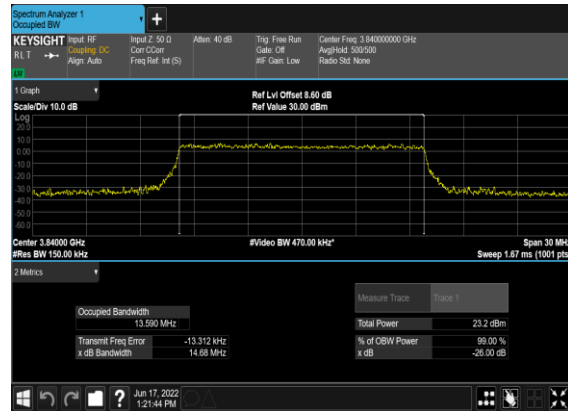
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N77(15M)\_CP-OFDM\_64  
QAM\_Outer\_Full\_Mid\_CH



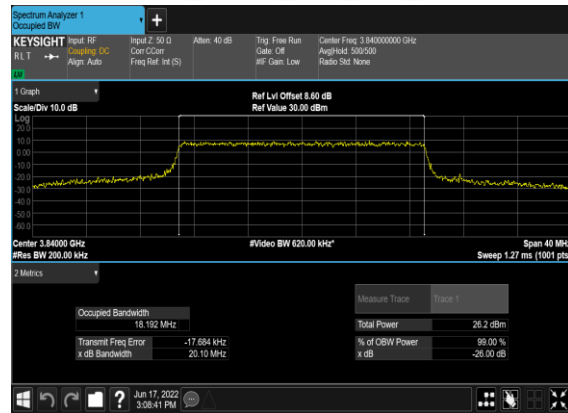
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QAM\_Outer\_Full\_Mid\_CH



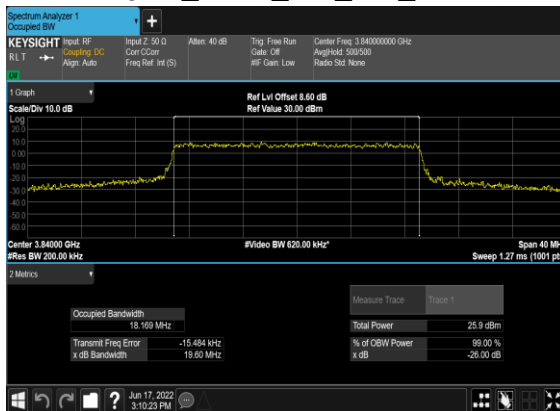
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OFDM\_QPSK\_Outer\_Full\_Mid\_CH



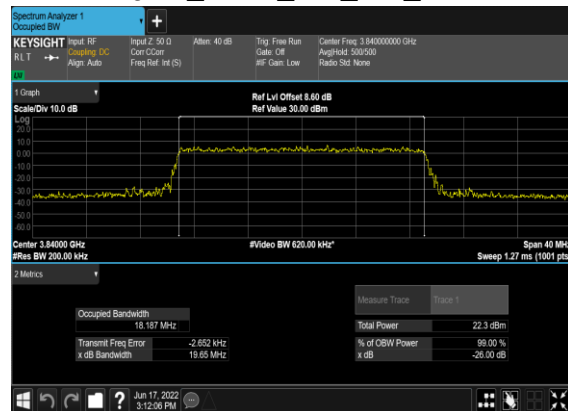
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QAM\_Outer\_Full\_Mid\_CH



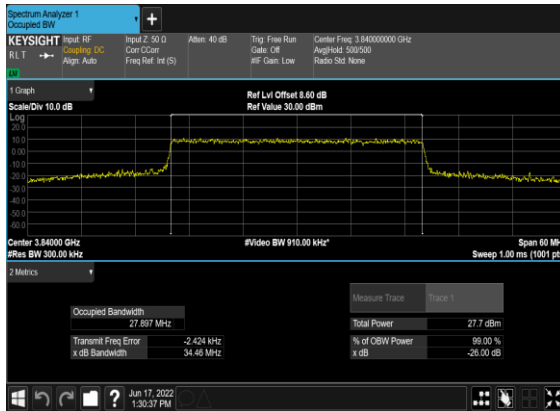
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QAM\_Outer\_Full\_Mid\_CH



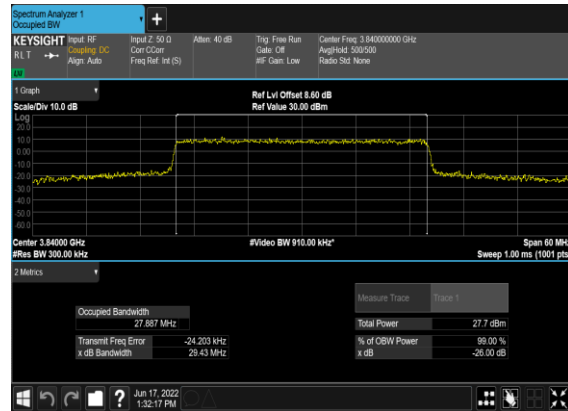
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QAM\_Outer\_Full\_Mid\_CH



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



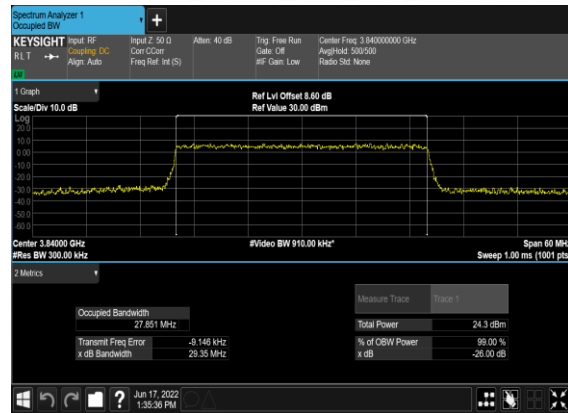
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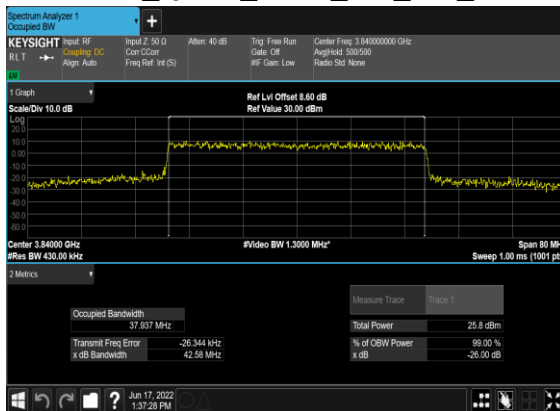
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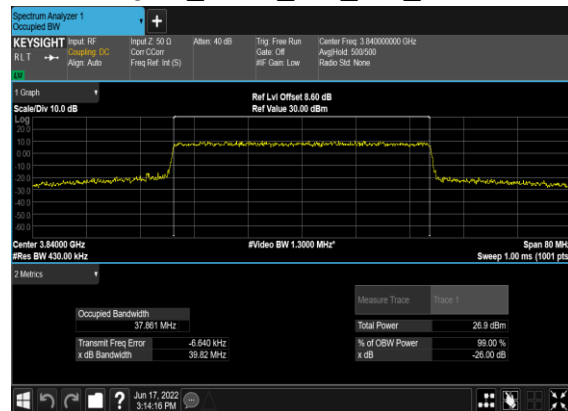
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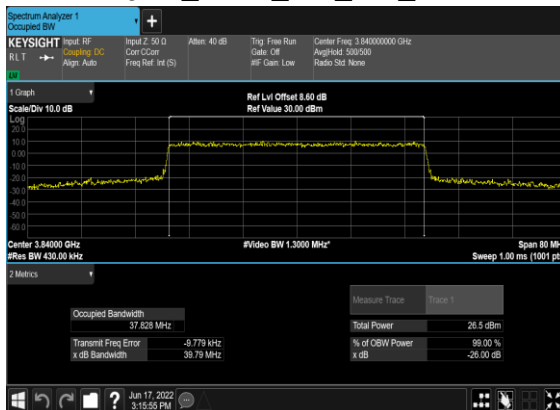
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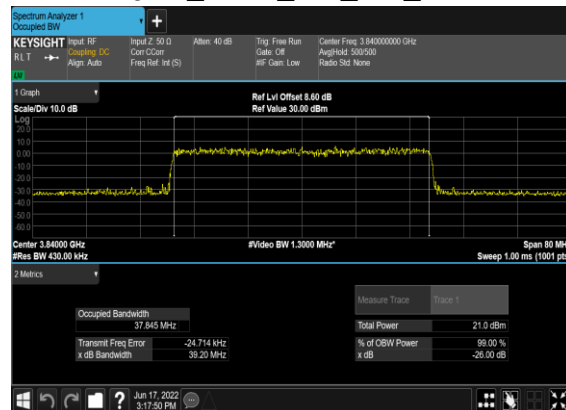
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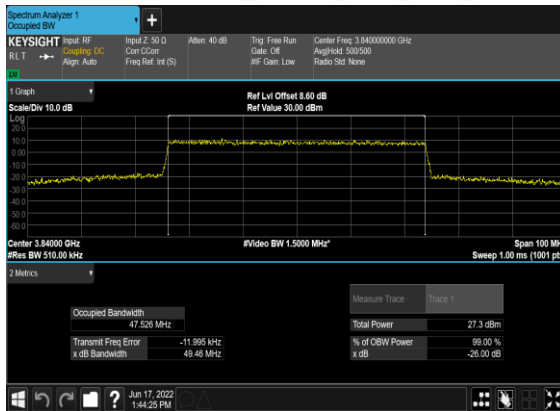
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QAM\_Outer\_Full\_Mid\_CH



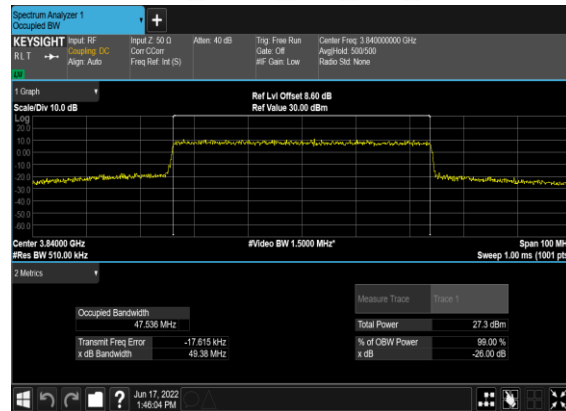
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QAM\_Outer\_Full\_Mid\_CH



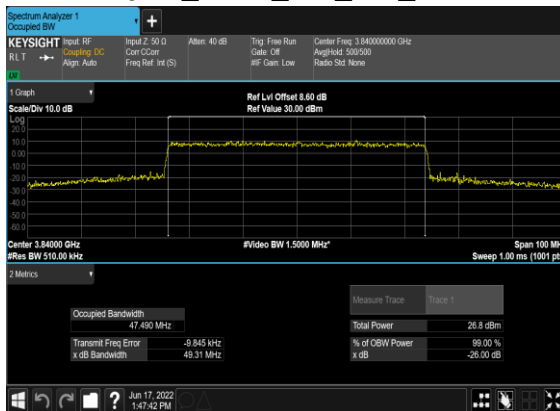
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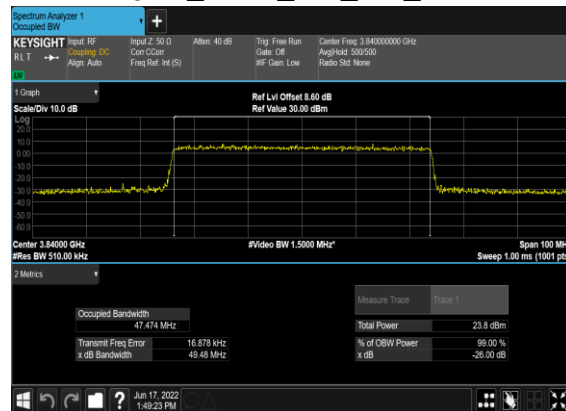
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QAM\_Outer\_Full\_Mid\_CH



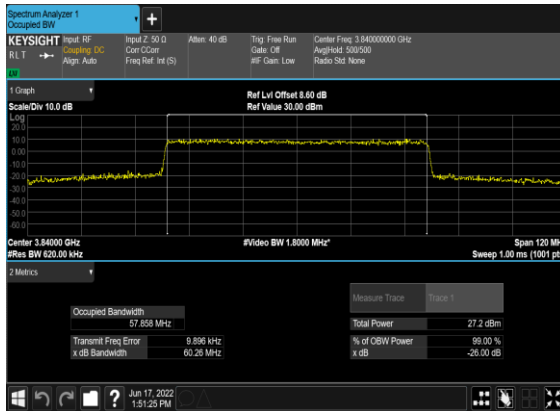
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QAM\_Outer\_Full\_Mid\_CH



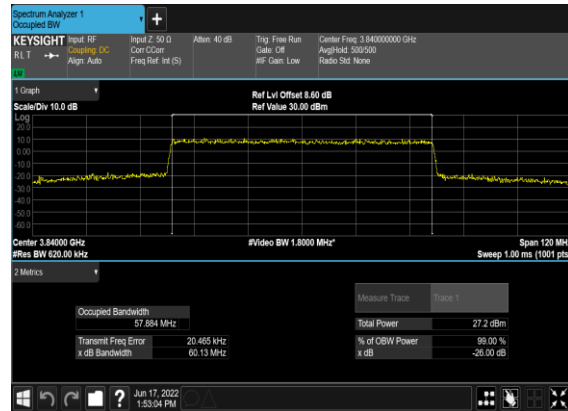
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QAM\_Outer\_Full\_Mid\_CH



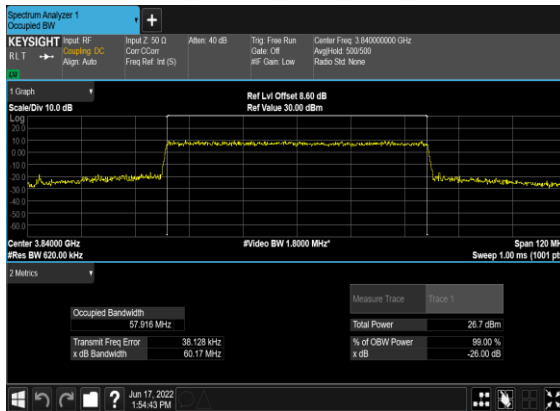
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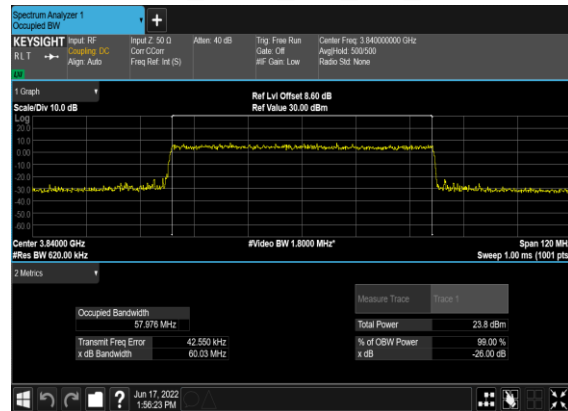
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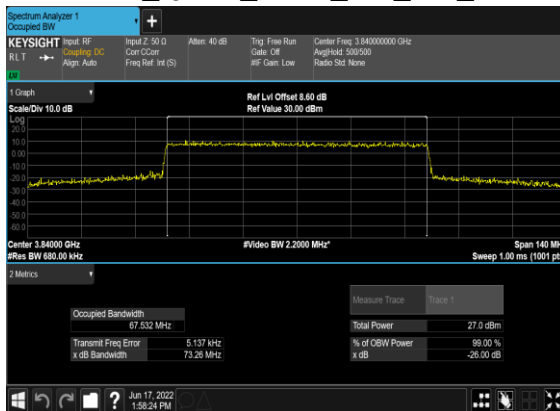
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## N77(60M)\_CP-OFDM\_256 QAM\_Outer\_Full\_Mid\_CH



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



## N77(70M)\_CP-OFDM\_16 QAM\_Outer\_Full\_Mid\_CH

