

LTE B2\_20 M\_Extended Band Edge\_Low\_QPSK\_FullRB

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LTE B2\_20 M\_Band Edge\_High\_QPSK\_1RB

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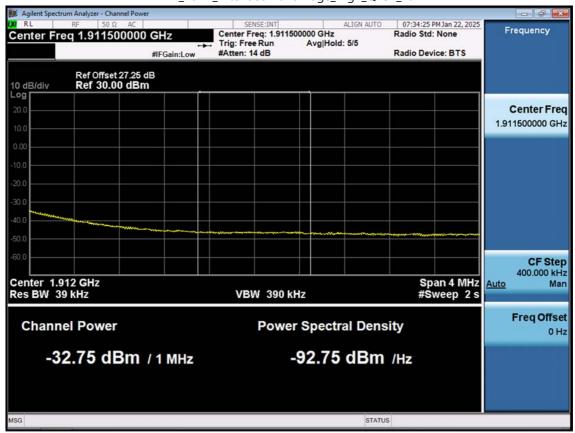




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LTE B2\_20 M\_Extended Band Edge\_High\_QPSK\_FullRB

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# 11. TEST PLOTS(Sub 1 ANT)

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#### ent Spectrum Analyzer - Power Stat CCDF 01:06:02 PM Jan 25, 2025 Frequency Center Freq 1.880000000 GHz Radio Std: None Counts:2.00 M/2.00 Mpt #IFGain:Low Average Power Gaussian 100 % Center Freq 21.87 dBm 1.880000000 GHz 47.95 % at 0dB 10 % 1 % 10.0 % 2.37 dB 0.1 % 4.53 dB 1.0 % CF Step 5.000000 MHz 0.1% 5.72 dB 0.01 % <u>Auto</u> Man 0.01 % 6.45 dB 0.001 % 6.85 dB Freq Offset 0.0001 % 6.95 dB 0.001 % 0 Hz Peak 6.96 dB 28.83 dBm 0.0001 % 0 dB 20 dB

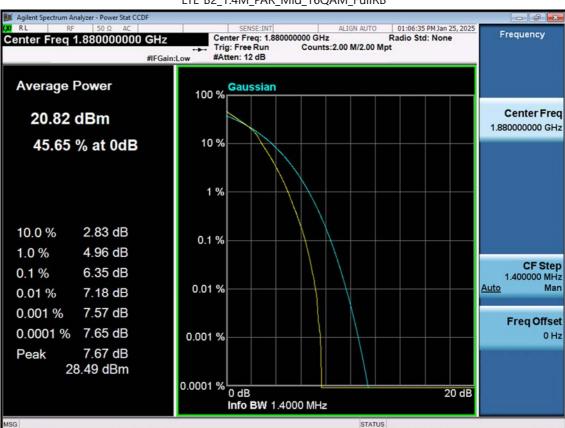
Info BW 1.4000 MHz

STATUS

LTE B2 1.4M PAR Mid QPSK FullRB

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LTE B2 1.4M PAR Mid 16QAM FullRB

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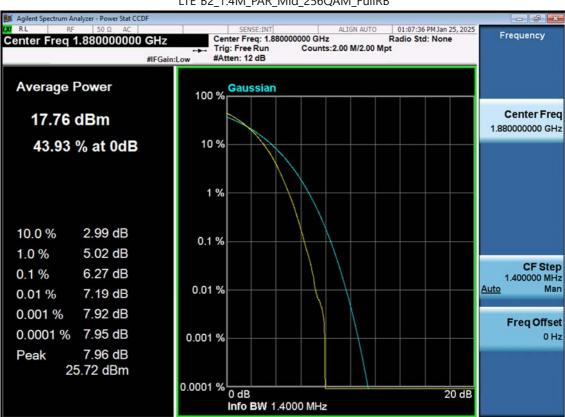




LTE B2 1.4M PAR Mid 64QAM FullRB

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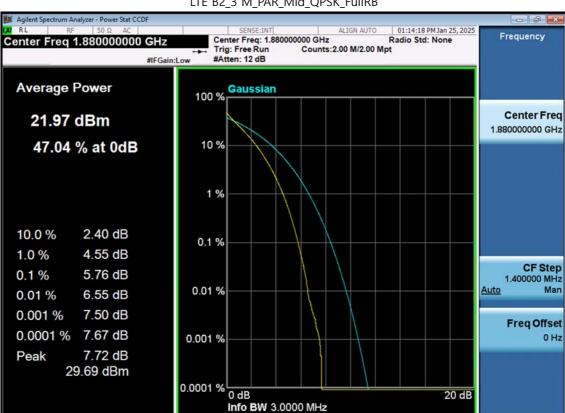




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LTE B2 3 M PAR Mid QPSK FullRB

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#### Agilent Spectrum Analyzer - Power Stat CCDF 01:14:45 PM Jan 25, 2025 Radio Std: None Frequency Center Freq 1.880000000 GHz Counts: 2.00 M/2.00 Mpt #IFGain:Low Average Power Gaussian 100 % Center Freq 20.90 dBm 1.880000000 GHz 45.28 % at 0dB 10 % 1 % 10.0 % 2.88 dB 0.1 % 5.05 dB 1.0 % **CF Step** 0.1% 6.29 dB 3.000000 MHz 0.01 % <u>Auto</u> Man 0.01 % 7.28 dB 0.001 % 7.98 dB Freq Offset 0.0001 % 8.11 dB 0.001 % 0 Hz Peak 8.12 dB 29.02 dBm 0.0001 % O dB 20 dB

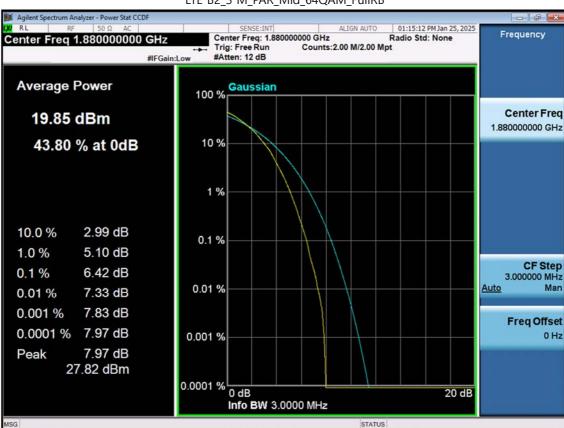
Info BW 3.0000 MHz

STATUS

LTE B2 3 M PAR Mid 16QAM FullRB

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LTE B2 3 M PAR Mid 64QAM FullRB

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#### Agilent Spectrum Analyzer - Power Stat CCDF 01:15:34 PM Jan 25, 2025 Radio Std: None Frequency Center Freq 1.880000000 GHz Counts: 2.00 M/2.00 Mpt #IFGain:Low Average Power Gaussian 100 % Center Freq 17.83 dBm 1.880000000 GHz 44.08 % at 0dB 10 % 1 % 10.0 % 2.99 dB 0.1 % 5.07 dB 1.0 % **CF Step** 0.1% 6.33 dB 3.000000 MHz 0.01 % <u>Auto</u> Man 0.01 % 7.14 dB 0.001 % 7.67 dB Freq Offset 0.0001 % 7.83 dB 0.001 % 0 Hz Peak 7.85 dB 25.68 dBm 0.0001 % O dB 20 dB

Info BW 3.0000 MHz

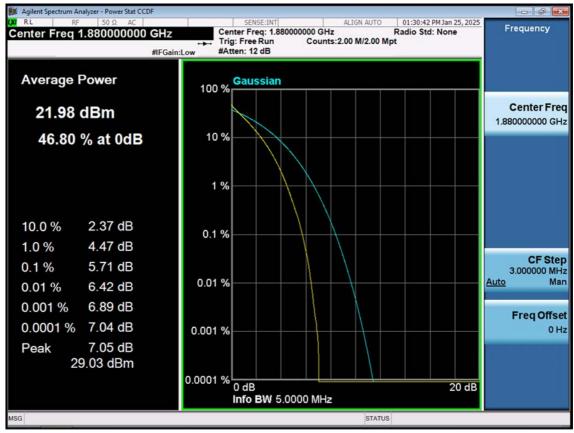
STATUS

LTE B2 3 M PAR Mid 256QAM FullRB

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# LTE B2\_5 M\_PAR\_Mid\_QPSK\_FullRB



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#### Agilent Spectrum Analyzer - Power Stat CCDF 01:31:07 PM Jan 25, 2025 Radio Std: None Frequency Center Freq 1.880000000 GHz Counts: 2.00 M/2.00 Mpt #IFGain:Low Average Power Gaussian 100 % Center Freq 20.94 dBm 1.880000000 GHz 45.04 % at 0dB 10 % 1 % 10.0 % 2.86 dB 0.1 % 4.97 dB 1.0 % **CF Step** 0.1% 6.33 dB 5.000000 MHz 0.01 % <u>Auto</u> Man 0.01 % 7.27 dB 0.001 % 8.25 dB Freq Offset 0.0001 % 8.47 dB 0.001 % 0 Hz Peak 8.47 dB 29.41 dBm 0.0001 % O dB 20 dB Info BW 5.0000 MHz

STATUS

### LTE B2 5 M PAR Mid 16QAM FullRB

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LTE B2 5 M PAR Mid 64QAM FullRB

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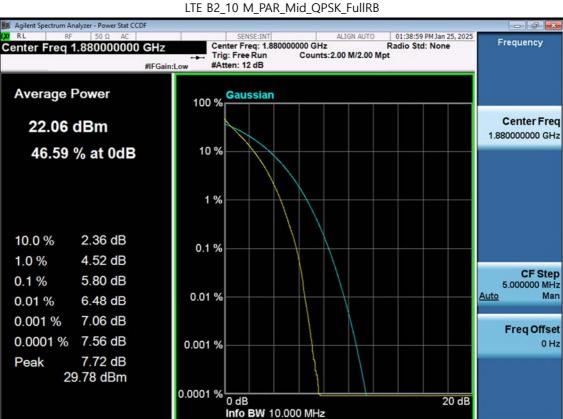
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### LTE B2 5 M PAR Mid 256QAM FullRB

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20 dB

STATUS



#### Agilent Spectrum Analyzer - Power Stat CCDF 01:39:22 PM Jan 25, 2025 Radio Std: None Frequency Center Freq 1.880000000 GHz Counts: 2.00 M/2.00 Mpt #IFGain:Low Average Power Gaussian 100 % Center Freq 21.03 dBm 1.880000000 GHz 45.21 % at 0dB 10 % 1 % 10.0 % 2.86 dB 0.1 % 5.01 dB 1.0 % **CF Step** 0.1% 6.31 dB 10.000000 MHz 0.01 % <u>Auto</u> Man 0.01 % 7.35 dB 0.001 % 7.92 dB Freq Offset 0.0001 % 8.47 dB 0.001 % 0 Hz Peak 8.56 dB 29.59 dBm 0.0001 % O dB

Info BW 10.000 MHz

## LTE B2 10 M PAR Mid 16QAM FullRB

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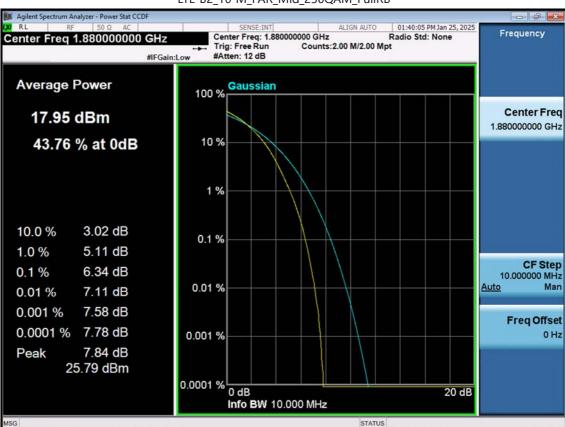
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### LTE B2 10 M PAR Mid 64QAM FullRB

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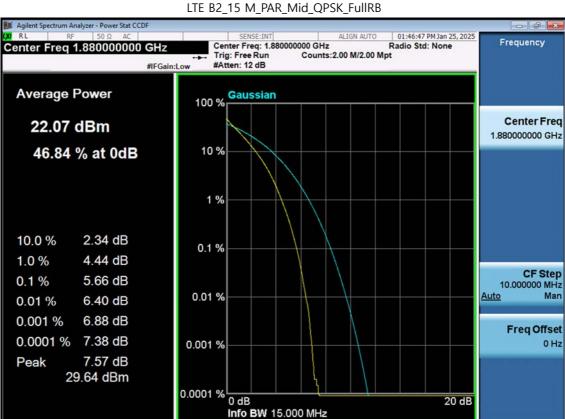




LTE B2 10 M PAR Mid 256QAM FullRB

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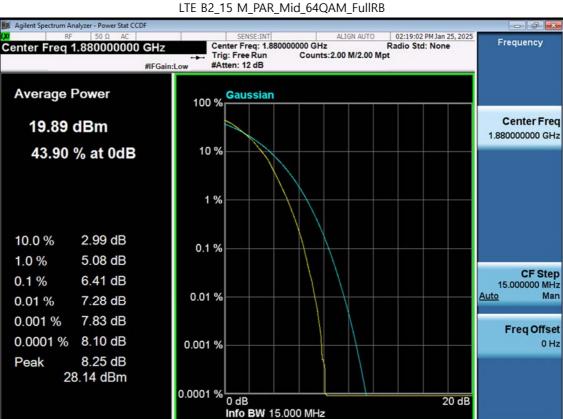
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STATUS

LTE B2 15 M PAR Mid 16QAM FullRB

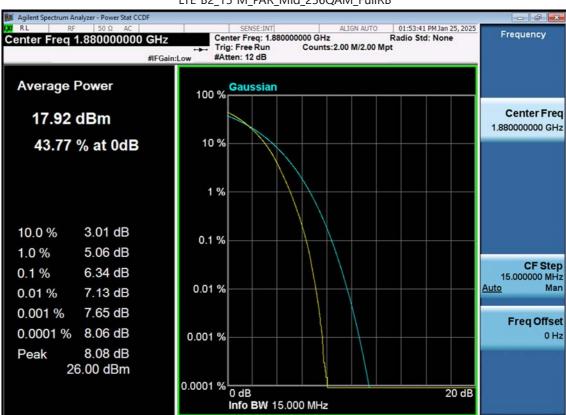
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LTE B2 15 M PAR Mid 256QAM FullRB

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#### Agilent Spectrum Analyzer - Power Stat CCDF 02:04:53 PM Jan 25, 2025 Frequency Center Freq 1.880000000 GHz Radio Std: None Counts: 2.00 M/2.00 Mpt #IFGain:Low Average Power Gaussian 100 % Center Freq 22.12 dBm 1.880000000 GHz 46.44 % at 0dB 10 % 1 % 10.0 % 2.38 dB 0.1 % 4.49 dB 1.0 % **CF Step** 0.1% 5.65 dB 15.000000 MHz 0.01 % <u>Auto</u> Man 0.01 % 6.47 dB 0.001 % 6.99 dB Freq Offset 0.0001 % 7.29 dB 0.001 % 0 Hz 7.29 dB Peak 29.41 dBm 0.0001 % O dB 20 dB Info BW 20.000 MHz

STATUS

LTE B2 20 M PAR Mid QPSK FullRB

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#### Agilent Spectrum Analyzer - Power Stat CCDF 02:05:16 PM Jan 25, 2025 Frequency Center Freq 1.880000000 GHz Radio Std: None Counts: 2.00 M/2.00 Mpt #IFGain:Low Average Power Gaussian 100 % Center Freq 21.08 dBm 1.880000000 GHz 44.75 % at 0dB 10 % 1 % 10.0 % 2.87 dB 0.1 % 4.99 dB 1.0 % **CF Step** 0.1% 6.33 dB 20.000000 MHz 0.01 % <u>Auto</u> Man 0.01 % 7.26 dB 0.001 % 7.95 dB Freq Offset 0.0001 % 8.37 dB 0.001 % 0 Hz Peak 8.51 dB 29.59 dBm 0.0001 % O dB 20 dB Info BW 20.000 MHz

STATUS

LTE B2 20 M PAR Mid 16QAM FullRB

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### LTE B2 20 M PAR Mid 64QAM FullRB

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#### Agilent Spectrum Analyzer - Power Stat CCDF 02:05:57 PM Jan 25, 2025 Frequency Center Freq 1.880000000 GHz Radio Std: None Counts: 2.00 M/2.00 Mpt #IFGain:Low Average Power Gaussian 100 % Center Freq 18.02 dBm 1.880000000 GHz 43.90 % at 0dB 10 % 1 % 10.0 % 2.99 dB 0.1 % 1.0 % 5.08 dB **CF Step** 0.1% 6.40 dB 20.000000 MHz 0.01 % <u>Auto</u> Man 0.01 % 7.27 dB 0.001 % 7.79 dB Freq Offset 0.0001 % 7.96 dB 0.001 % 0 Hz Peak 8.18 dB 26.20 dBm 0.0001 % O dB 20 dB Info BW 20.000 MHz

STATUS

### LTE B2 20 M PAR Mid 256QAM FullRB

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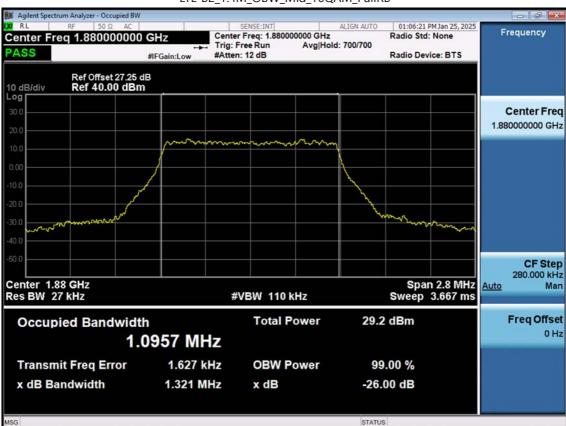




LTE B2 1.4M OBW Mid QPSK FullRB

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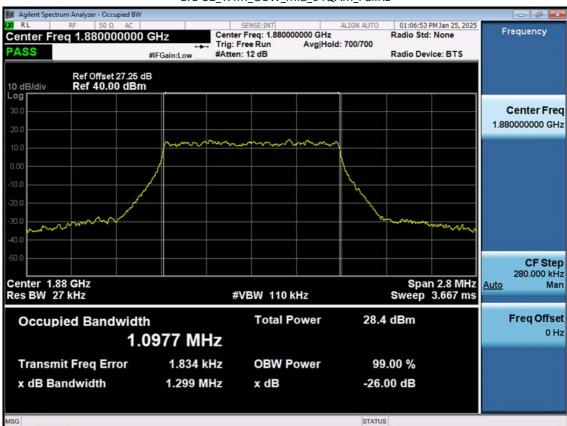




# LTE B2\_1.4M\_OBW\_Mid\_16QAM\_FullRB

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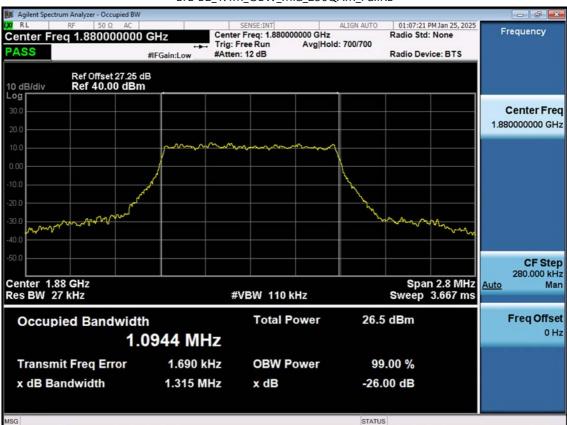




LTE B2 1.4M OBW Mid 64QAM FullRB

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### LTE B2 1.4M OBW Mid 256QAM FullRB

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### Agilent Spectrum Analyzer - Occupied BW 01:14:08 PM Jan 25, 2025 Frequency Center Freq 1.880000000 GHz Radio Std: None PASS Radio Device: BTS Ref Offset 27.25 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.880000000 GHz **CF Step** 600.000 kHz Span 6 MHz Sweep 1.533 ms Center 1.88 GHz #Res BW 62 kHz Man **#VBW 240 kHz** Freq Offset Occupied Bandwidth **Total Power** 30.5 dBm 0 Hz 2.7185 MHz **Transmit Freq Error** 7.682 kHz **OBW Power** 99.00 % x dB Bandwidth 3.134 MHz x dB -26.00 dB

STATUS

# LTE B2\_3 M\_OBW\_Mid\_QPSK\_FullRB

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### Agilent Spectrum Analyzer - Occupied BW 01:14:35 PM Jan 25, 2025 Radio Std: None Center Freq: 1.88000000 GHz Trig: Free Run Avg|Hold: 700/700 #Atten: 12 dB Frequency Center Freq 1.880000000 GHz PASS Radio Device: BTS Ref Offset 27.25 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.880000000 GHz **CF Step** 600.000 kHz Span 6 MHz Sweep 1.533 ms Center 1.88 GHz #Res BW 62 kHz Man **#VBW 240 kHz** Freq Offset Occupied Bandwidth **Total Power** 29.7 dBm 0 Hz 2.7092 MHz **Transmit Freq Error** 8.328 kHz **OBW Power** 99.00 % x dB Bandwidth 3.051 MHz x dB -26.00 dB

STATUS

### LTE B2 3 M OBW Mid 16QAM FullRB

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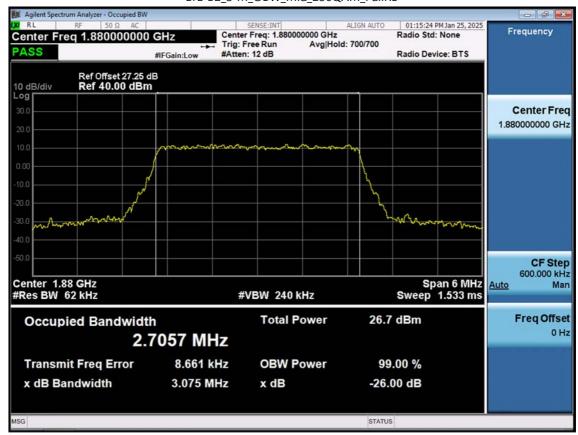
### Agilent Spectrum Analyzer - Occupied BW 01:15:02 PM Jan 25, 2025 Radio Std: None Center Freq: 1.88000000 GHz Trig: Free Run Avg|Hold: 700/700 #Atten: 12 dB Frequency Center Freq 1.880000000 GHz PASS Radio Device: BTS Ref Offset 27.25 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.880000000 GHz **CF Step** 600.000 kHz Span 6 MHz Sweep 1.533 ms Center 1.88 GHz #Res BW 62 kHz Man **#VBW 240 kHz** Freq Offset Occupied Bandwidth **Total Power** 28.5 dBm 0 Hz 2.7062 MHz **Transmit Freq Error** 8.452 kHz **OBW Power** 99.00 % x dB Bandwidth 3.107 MHz x dB -26.00 dB

STATUS

### LTE B2 3 M OBW Mid 64QAM FullRB

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LTE B2 3 M OBW Mid 256QAM FullRB

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# LTE B2 5 M OBW Mid QPSK FullRB

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#### Agilent Spectrum Analyzer - Occupied BW 01:30:58 PM Jan 25, 2025 Center Freq: 1.88000000 GHz Trig: Free Run Avg|Hold: 700/700 #Atten: 12 dB Frequency Center Freq 1.880000000 GHz Radio Std: None PASS Radio Device: BTS Ref Offset 27.25 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.880000000 GHz morning **CF Step** 1.000000 MHz Center 1.88 GHz #Res BW 100 kHz Span 10 MHz Sweep 1 ms Man **#VBW 390 kHz** Freq Offset Occupied Bandwidth **Total Power** 29.7 dBm 0 Hz 4.5019 MHz **Transmit Freq Error** 13.144 kHz **OBW Power** 99.00 % x dB Bandwidth 5.285 MHz x dB -26.00 dB

STATUS

# LTE B2 5 M OBW Mid 16QAM FullRB

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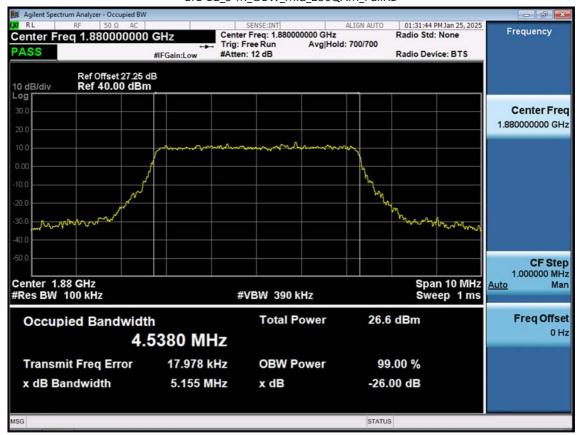
# Agilent Spectrum Analyzer - Occupied BW 01:31:23 PM Jan 25, 2025 Center Freq: 1.88000000 GHz Trig: Free Run Avg|Hold: 700/700 #Atten: 12 dB Frequency Center Freq 1.880000000 GHz Radio Std: None PASS Radio Device: BTS Ref Offset 27.25 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.880000000 GHz **CF Step** 1.000000 MHz Center 1.88 GHz #Res BW 100 kHz Span 10 MHz Sweep 1 ms Man #VBW 390 kHz Freq Offset Occupied Bandwidth **Total Power** 28.6 dBm 0 Hz 4.5215 MHz **Transmit Freq Error** 17.267 kHz **OBW Power** 99.00 % x dB Bandwidth 5.265 MHz x dB -26.00 dB

STATUS

# LTE B2 5 M OBW Mid 64QAM FullRB

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LTE B2 5 M OBW Mid 256QAM FullRB

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# Agilent Spectrum Analyzer - Occupied BW 01:38:52 PM Jan 25, 2025 Frequency Center Freq 1.880000000 GHz Radio Std: None PASS Radio Device: BTS Ref Offset 27.25 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.880000000 GHz **CF Step** 2.000000 MHz Center 1.88 GHz #Res BW 200 kHz Span 20 MHz Sweep 1 ms Man **#VBW 820 kHz** Freq Offset Occupied Bandwidth **Total Power** 30.7 dBm 0 Hz 9.0099 MHz **Transmit Freq Error** 18.325 kHz **OBW Power** 99.00 % x dB Bandwidth 10.44 MHz x dB -26.00 dB

STATUS

# LTE B2 10 M OBW Mid QPSK FullRB

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# Agilent Spectrum Analyzer - Occupied BW 01:39:15 PM Jan 25, 2025 Center Freq: 1.88000000 GHz Trig: Free Run Avg|Hold: 700/700 #Atten: 12 dB Frequency Center Freq 1.880000000 GHz Radio Std: None PASS Radio Device: BTS Ref Offset 27.25 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.880000000 GHz **CF Step** 2.000000 MHz Center 1.88 GHz #Res BW 200 kHz Span 20 MHz Sweep 1 ms Man **#VBW** 820 kHz Freq Offset Occupied Bandwidth **Total Power** 29.7 dBm 0 Hz 9.0023 MHz **Transmit Freq Error** 22.383 kHz **OBW Power** 99.00 % x dB Bandwidth 10.19 MHz x dB -26.00 dB

STATUS

# LTE B2\_10 M\_OBW\_Mid\_16QAM\_FullRB

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## Agilent Spectrum Analyzer - Occupied BW 01:39:39 PM Jan 25, 2025 Center Freq: 1.88000000 GHz Trig: Free Run Avg|Hold: 700/700 #Atten: 12 dB Frequency Center Freq 1.880000000 GHz Radio Std: None PASS Radio Device: BTS Ref Offset 27.25 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.880000000 GHz **CF Step** 2.000000 MHz Center 1.88 GHz #Res BW 200 kHz Span 20 MHz Sweep 1 ms Man **#VBW** 820 kHz Freq Offset Occupied Bandwidth **Total Power** 28.6 dBm 0 Hz 9.0042 MHz **Transmit Freq Error** 34.113 kHz **OBW Power** 99.00 % x dB Bandwidth 10.22 MHz x dB -26.00 dB

STATUS

# LTE B2 10 M OBW Mid 64QAM FullRB

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# Agilent Spectrum Analyzer - Occupied BW 01:39:58 PM Jan 25, 2025 Frequency Center Freq 1.880000000 GHz Radio Std: None PASS Radio Device: BTS Ref Offset 27.25 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.880000000 GHz **CF Step** 2.000000 MHz Center 1.88 GHz #Res BW 200 kHz Span 20 MHz Sweep 1 ms Man **#VBW** 820 kHz Freq Offset Occupied Bandwidth **Total Power** 26.7 dBm 0 Hz 9.0152 MHz **Transmit Freq Error** 23.548 kHz **OBW Power** 99.00 % x dB Bandwidth 10.12 MHz x dB -26.00 dB

STATUS

# LTE B2 10 M OBW Mid 256QAM FullRB

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# Agilent Spectrum Analyzer - Occupied BW 01:46:40 PM Jan 25, 2025 Frequency Center Freq 1.880000000 GHz Radio Std: None PASS Radio Device: BTS Ref Offset 27.25 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.880000000 GHz **CF Step** 3.000000 MHz Center 1.88 GHz #Res BW 300 kHz Span 30 MHz Sweep 1 ms Man #VBW 1.2 MHz Freq Offset Occupied Bandwidth **Total Power** 30.6 dBm 0 Hz 13.476 MHz **Transmit Freq Error** 32.363 kHz **OBW Power** 99.00 % x dB Bandwidth 15.23 MHz x dB -26.00 dB

STATUS

# LTE B2 15 M OBW Mid QPSK FullRB

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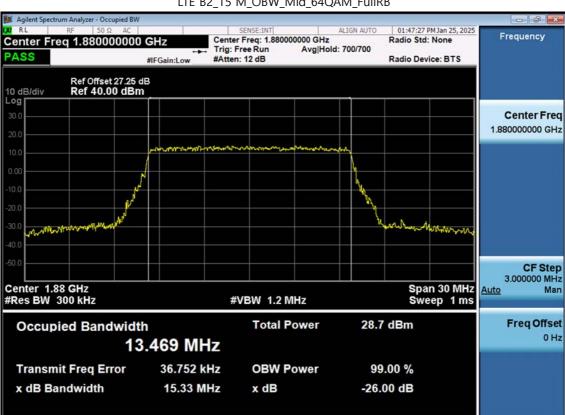
## Agilent Spectrum Analyzer - Occupied BW 01:47:04 PM Jan 25, 2025 Center Freq: 1.88000000 GHz Trig: Free Run Avg|Hold: 700/700 #Atten: 12 dB Frequency Center Freq 1.880000000 GHz Radio Std: None PASS Radio Device: BTS Ref Offset 27.25 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.880000000 GHz **CF Step** 3.000000 MHz Center 1.88 GHz #Res BW 300 kHz Span 30 MHz Sweep 1 ms Man #VBW 1.2 MHz Freq Offset Occupied Bandwidth **Total Power** 29.7 dBm 0 Hz 13.473 MHz **Transmit Freq Error** 47.392 kHz **OBW Power** 99.00 % x dB Bandwidth 15.01 MHz x dB -26.00 dB

STATUS

# LTE B2\_15 M\_OBW\_Mid\_16QAM\_FullRB

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# LTE B2 15 M OBW Mid 64QAM FullRB

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## Agilent Spectrum Analyzer - Occupied BW 01:53:34 PM Jan 25, 2025 Frequency Center Freq 1.880000000 GHz Radio Std: None PASS Radio Device: BTS Ref Offset 27.25 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.880000000 GHz **CF Step** 3.000000 MHz Center 1.88 GHz #Res BW 300 kHz Span 30 MHz Sweep 1 ms Man #VBW 1.2 MHz Freq Offset Occupied Bandwidth **Total Power** 26.7 dBm 0 Hz 13.471 MHz **Transmit Freq Error** 20.747 kHz **OBW Power** 99.00 % x dB Bandwidth 15.41 MHz x dB -26.00 dB

STATUS

# LTE B2 15 M OBW Mid 256QAM FullRB

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## Agilent Spectrum Analyzer - Occupied BW 02:04:46 PM Jan 25, 2025 Center Freq: 1.88000000 GHz Trig: Free Run Avg|Hold: 700/700 #Atten: 12 dB Frequency Center Freq 1.880000000 GHz Radio Std: None PASS Radio Device: BTS Ref Offset 27.25 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.880000000 GHz **CF Step** 4.000000 MHz Center 1.88 GHz #Res BW 390 kHz Span 40 MHz Sweep 1 ms Man #VBW 1.6 MHz Freq Offset Occupied Bandwidth **Total Power** 30.7 dBm 0 Hz 17.982 MHz **Transmit Freq Error** 34.453 kHz **OBW Power** 99.00 % x dB Bandwidth 19.87 MHz x dB -26.00 dB

STATUS

# LTE B2 20 M OBW Mid QPSK FullRB

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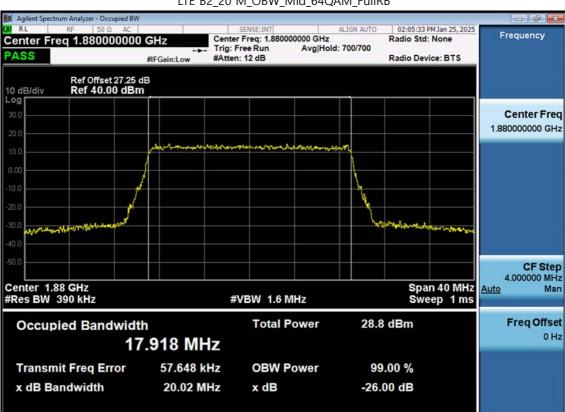
## Agilent Spectrum Analyzer - Occupied BW 02:05:10 PM Jan 25, 2025 Center Freq: 1.88000000 GHz Trig: Free Run Avg|Hold: 700/700 #Atten: 12 dB Frequency Center Freq 1.880000000 GHz Radio Std: None PASS Radio Device: BTS Ref Offset 27.25 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.880000000 GHz **CF Step** 4.000000 MHz Center 1.88 GHz #Res BW 390 kHz Span 40 MHz Sweep 1 ms Man #VBW 1.6 MHz Freq Offset Occupied Bandwidth **Total Power** 30.0 dBm 0 Hz 17.902 MHz **Transmit Freq Error** 27.282 kHz **OBW Power** 99.00 % x dB Bandwidth 19.66 MHz x dB -26.00 dB

STATUS

# LTE B2\_20 M\_OBW\_Mid\_16QAM\_FullRB

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# LTE B2 20 M OBW Mid 64QAM FullRB

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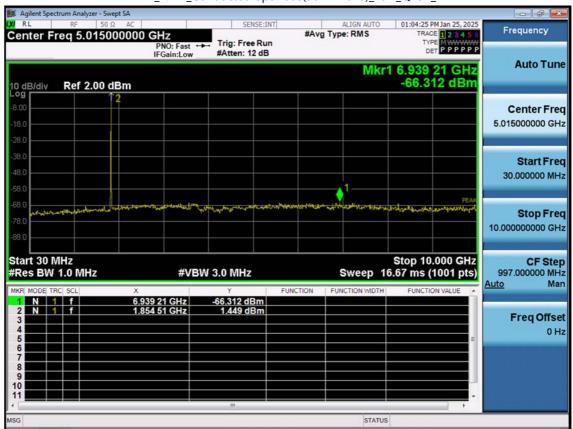
#### m Analyzer - Occupied BW SENSE:INT ALIGN AUTO Center Freq: 1.880000000 GHz Trig: Free Run Avg|Hold: 700/700 #Atten: 12 dB 02:05:51 PM Jan 25, 2025 Frequency Center Freq 1.880000000 GHz Radio Std: None PASS Radio Device: BTS Ref Offset 27.25 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.880000000 GHz **CF Step** 4.000000 MHz Center 1.88 GHz #Res BW 390 kHz Span 40 MHz Sweep 1 ms <u>Auto</u> Man **#VBW 1.6 MHz** Freq Offset Occupied Bandwidth **Total Power** 26.9 dBm 0 Hz 17.956 MHz **Transmit Freq Error** 29.833 kHz **OBW Power** 99.00 % x dB Bandwidth 19.97 MHz x dB -26.00 dB

STATUS

# LTE B2 20 M OBW Mid 256QAM FullRB

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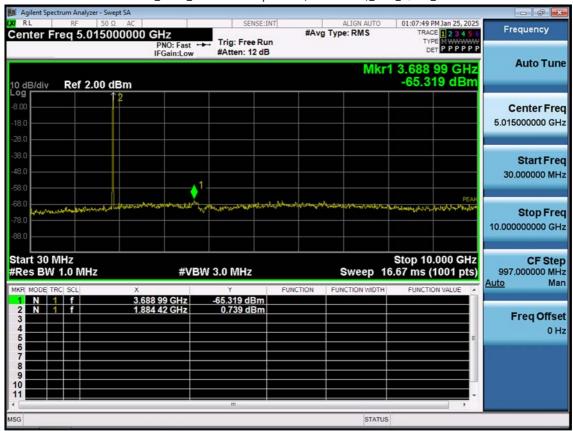




LTE B2\_1.4M\_Conducted Spurious(30 M-10 G)\_Low\_QPSK\_1RB

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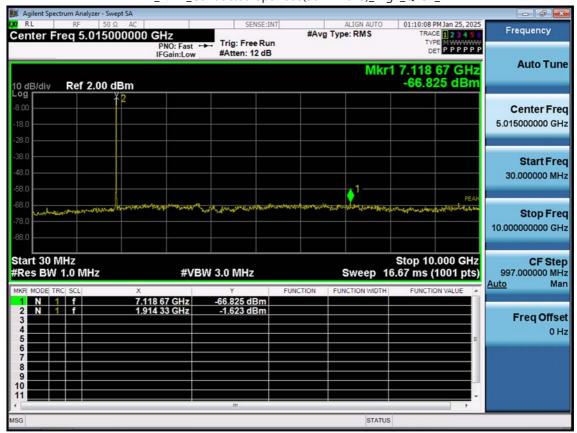




LTE B2\_1.4M\_Conducted Spurious(30 M-10 G)\_Mid\_QPSK\_1RB

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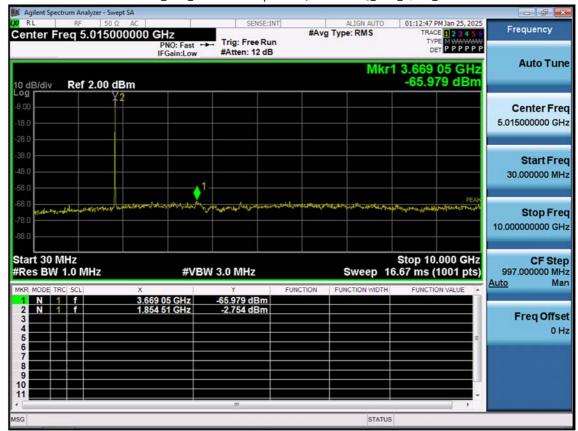




LTE B2\_1.4M\_Conducted Spurious(30 M-10 G)\_High\_QPSK\_1RB

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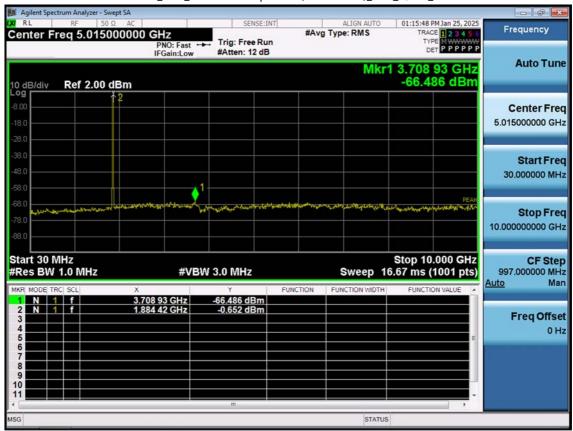




LTE B2\_3 M\_Conducted Spurious(30 M-10 G)\_Low\_QPSK\_1RB

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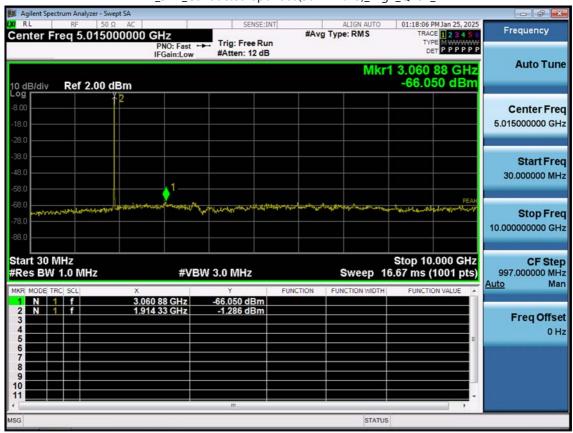




LTE B2\_3 M\_Conducted Spurious(30 M-10 G)\_Mid\_QPSK\_1RB

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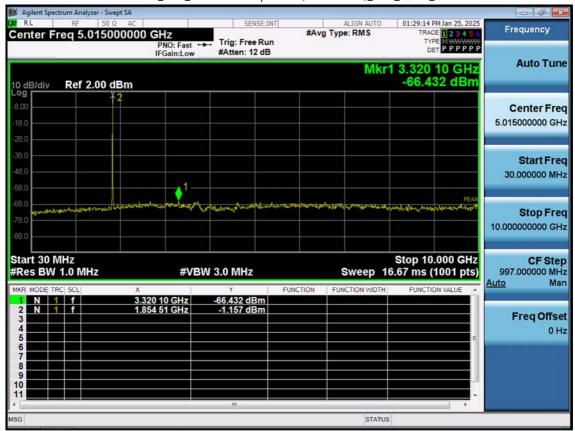




LTE B2\_3 M\_Conducted Spurious(30 M-10 G)\_High\_QPSK\_1RB

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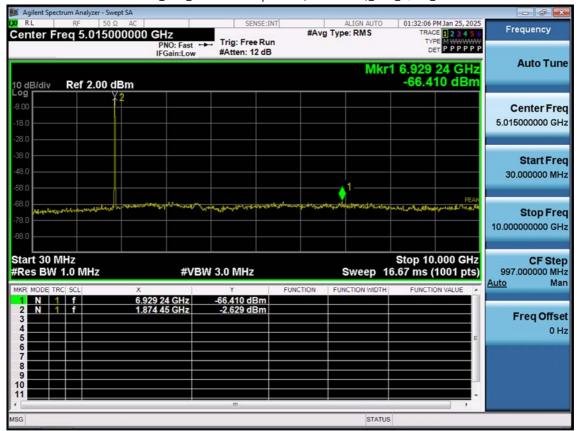




LTE B2\_5 M\_Conducted Spurious(30 M-10 G)\_Low\_QPSK\_1RB

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LTE B2\_5 M\_Conducted Spurious(30 M-10 G)\_Mid\_QPSK\_1RB

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