

LTE B4\_10 M\_Extended Band Edge\_High\_QPSK\_FullRB

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LTE B4\_15 M\_Band Edge\_Low\_QPSK\_1RB

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LTE B4\_15 M\_Band Edge\_Low\_QPSK\_FullRB

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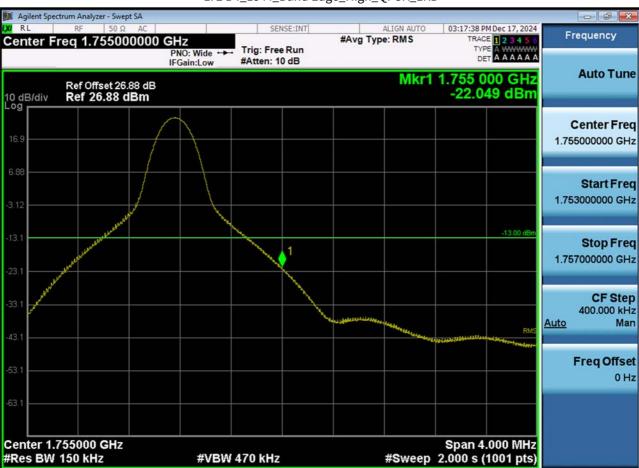




LTE B4\_15 M\_Extended Band Edge\_Low\_QPSK\_FullRB

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STATUS

LTE B4\_15 M\_Band Edge\_High\_QPSK\_1RB

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LTE B4\_15 M\_Band Edge\_High\_QPSK\_FullRB

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LTE B4\_20 M\_Band Edge\_Low\_QPSK\_1RB

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LTE B4\_20 M\_Band Edge\_Low\_QPSK\_FullRB

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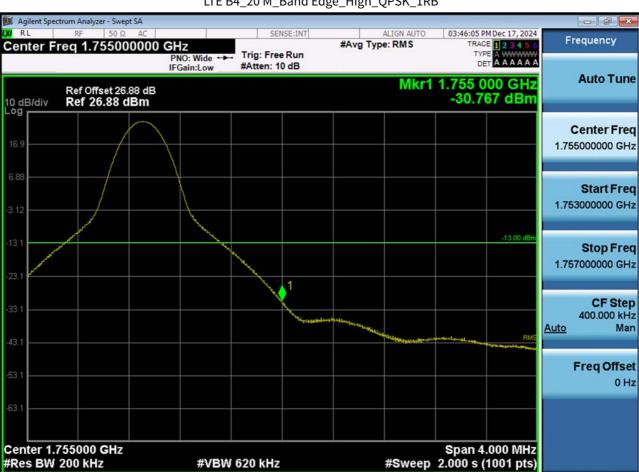




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LTE B4\_20 M\_Extended Band Edge\_High\_QPSK\_FullRB

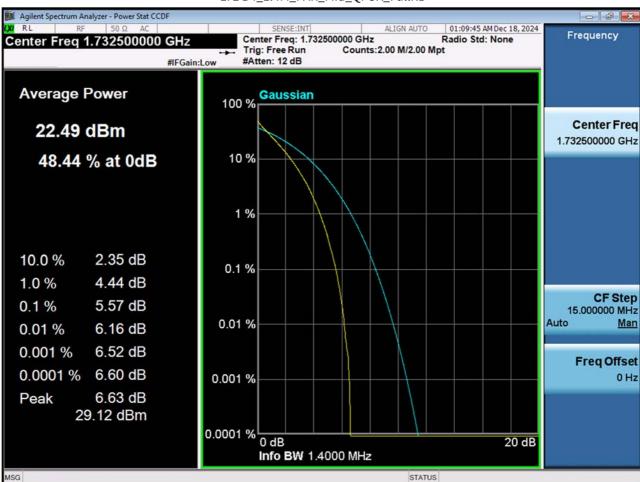
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## 11. TEST PLOTS(Sub 2 ANT)

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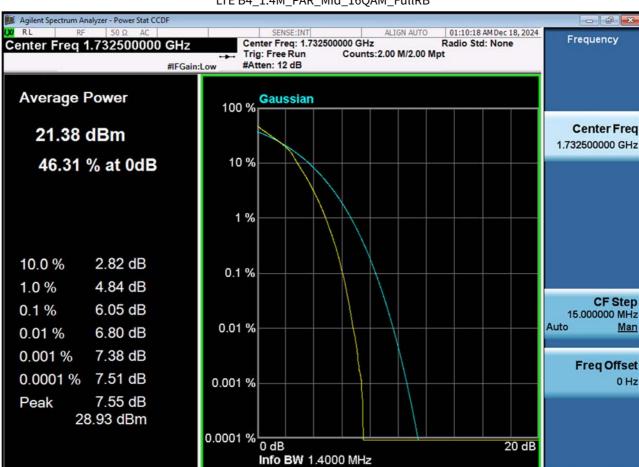




LTE B4\_1.4M\_PAR\_Mid\_QPSK\_FullRB

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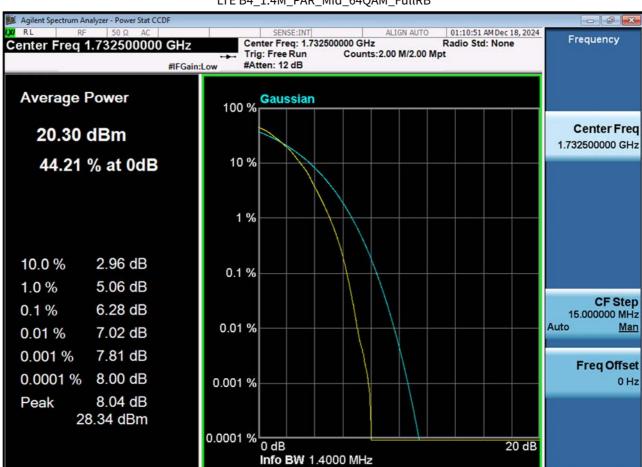


STATUS

LTE B4\_1.4M\_PAR\_Mid\_16QAM\_FullRB

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LTE B4\_1.4M\_PAR\_Mid\_64QAM\_FullRB

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LTE B4\_1.4M\_PAR\_Mid\_256QAM\_FullRB

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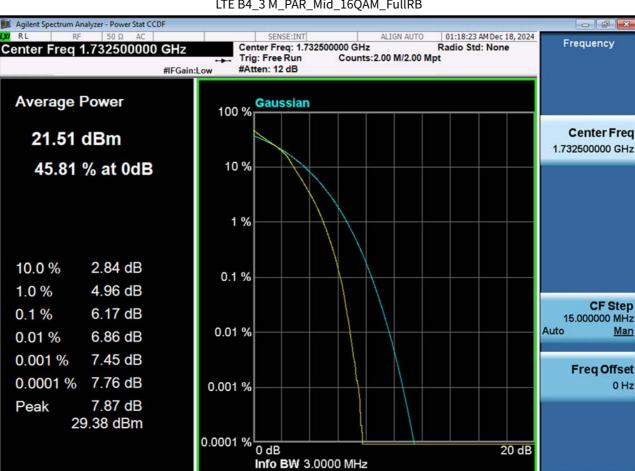
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STATUS

LTE B4\_3 M\_PAR\_Mid\_QPSK\_FullRB

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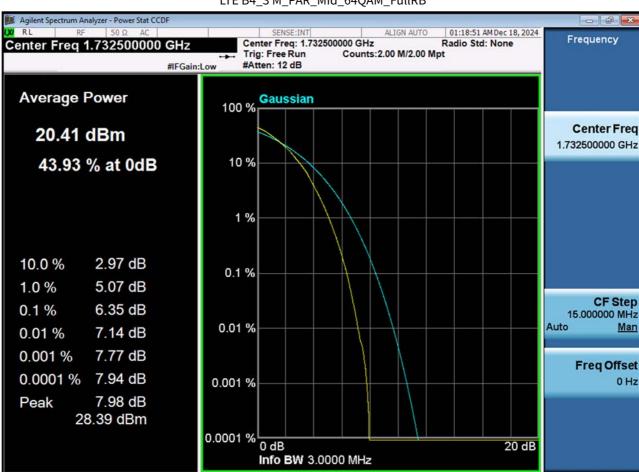


STATUS

LTE B4\_3 M\_PAR\_Mid\_16QAM\_FullRB

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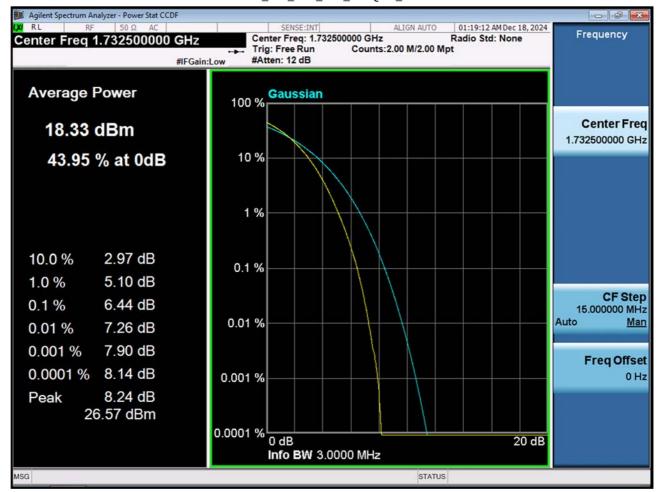


STATUS

LTE B4\_3 M\_PAR\_Mid\_64QAM\_FullRB

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LTE B4\_3 M\_PAR\_Mid\_256QAM\_FullRB

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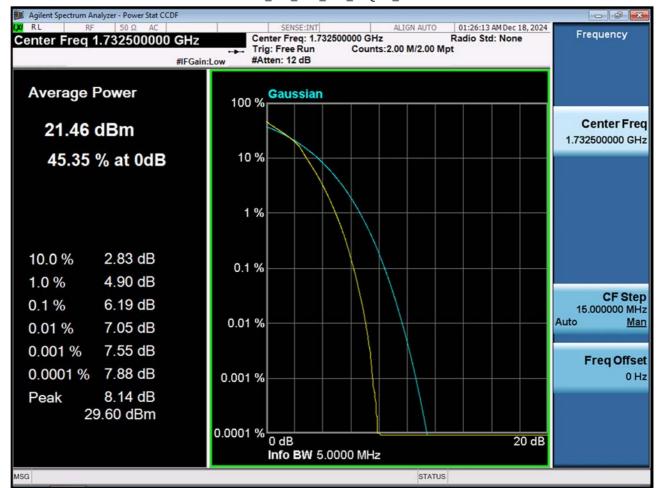
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STATUS

LTE B4\_5 M\_PAR\_Mid\_QPSK\_FullRB

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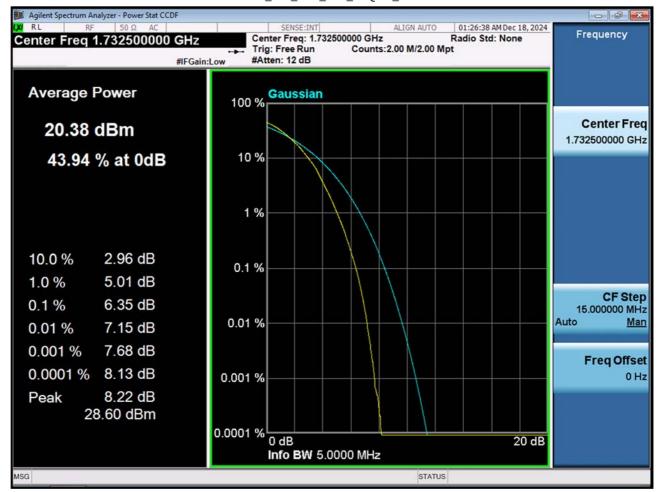




LTE B4\_5 M\_PAR\_Mid\_16QAM\_FullRB

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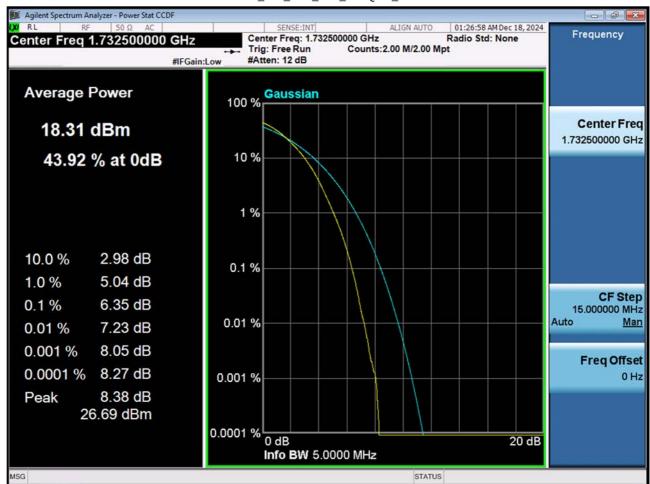




LTE B4\_5 M\_PAR\_Mid\_64QAM\_FullRB

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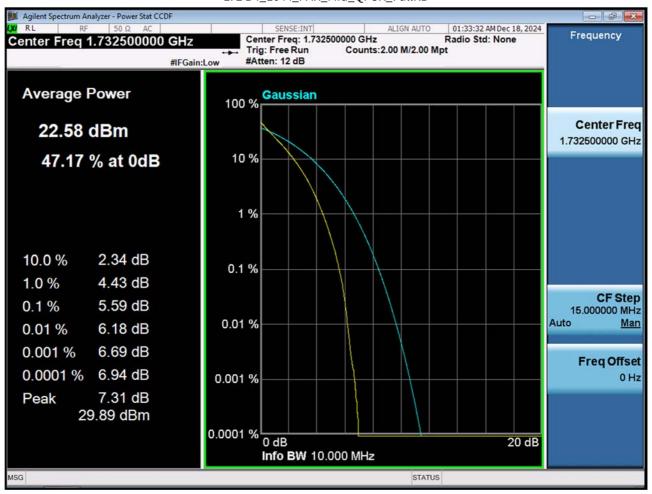


LTE B4\_5 M\_PAR\_Mid\_256QAM\_FullRB

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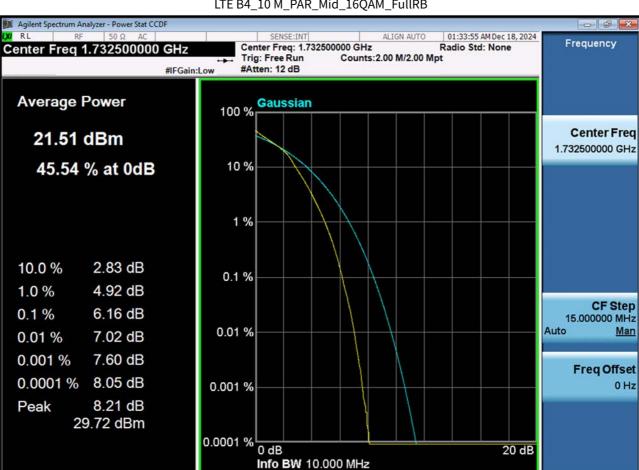


## LTE B4\_10 M\_PAR\_Mid\_QPSK\_FullRB



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LTE B4\_10 M\_PAR\_Mid\_16QAM\_FullRB

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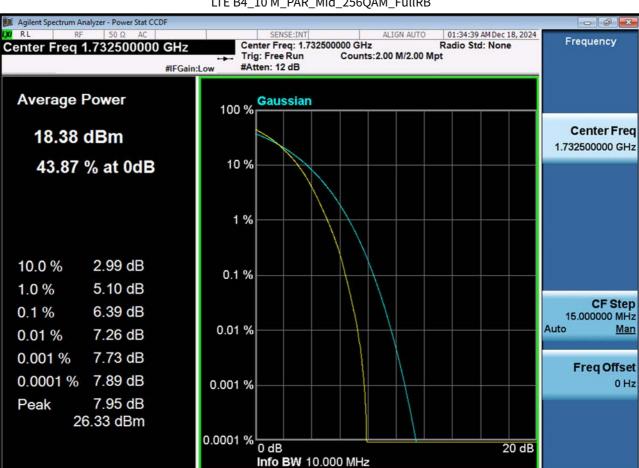


STATUS

LTE B4\_10 M\_PAR\_Mid\_64QAM\_FullRB

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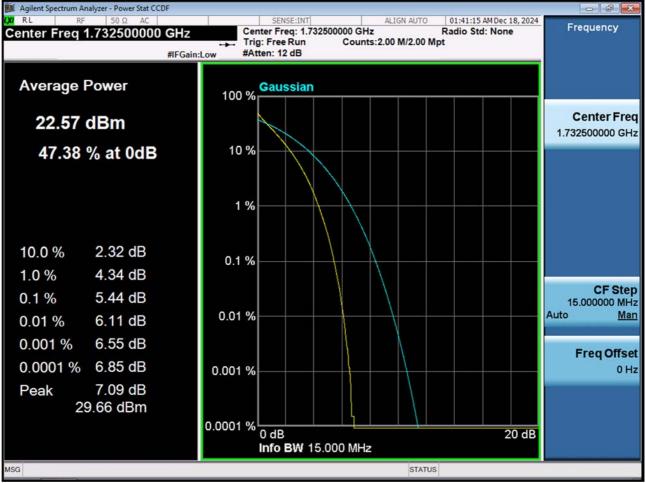
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LTE B4\_10 M\_PAR\_Mid\_256QAM\_FullRB

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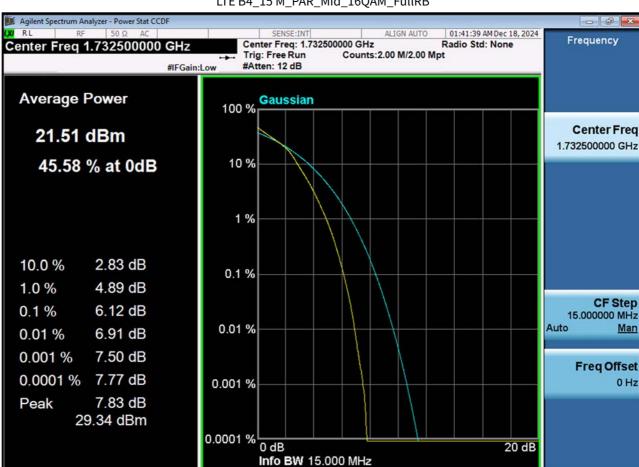


# LTE B4\_15 M\_PAR\_Mid\_QPSK\_FullRB



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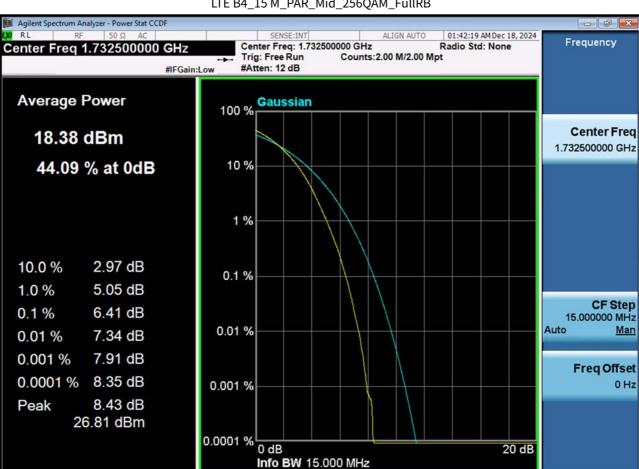


STATUS

LTE B4\_15 M\_PAR\_Mid\_64QAM\_FullRB

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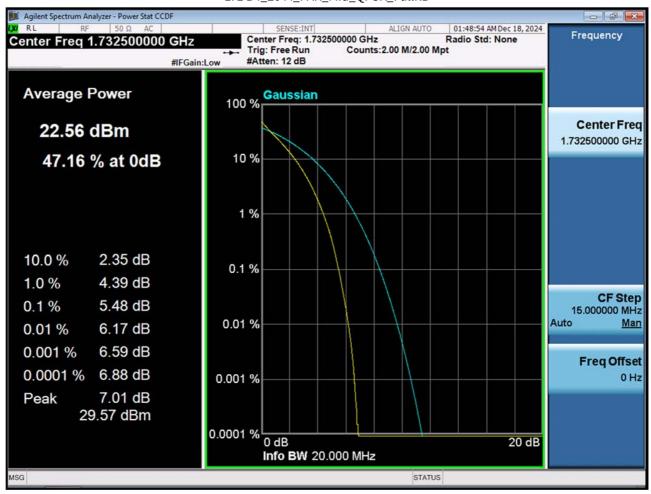
STATUS

LTE B4\_15 M\_PAR\_Mid\_256QAM\_FullRB

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## LTE B4\_20 M\_PAR\_Mid\_QPSK\_FullRB



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### Agilent Spectrum Analyzer - Power Stat CCDF 01:49:17 AM Dec 18, 2024 SENSE:INT ALIGN AUTO Center Freq: 1.732500000 GHz Radio Std: None Counts: 2.00 M/2.00 Mpt Trig: Free Run #Atten: 12 dB #IFGain:Low Gaussian 100 %

STATUS

LTE B4\_20 M\_PAR\_Mid\_16QAM\_FullRB

### Frequency Center Freq 1.732500000 GHz **Average Power** Center Freq 21.48 dBm 1.732500000 GHz 45.24 % at 0dB 10 % 1 % 10.0 % 2.86 dB 0.1 % 1.0 % 4.93 dB **CF Step** 0.1% 6.16 dB 15.000000 MHz 0.01 % Auto Man 7.00 dB 0.01 % 7.64 dB 0.001 % **Freq Offset** 0.0001 % 8.19 dB 0.001 % 0 Hz Peak 8.23 dB 29.71 dBm 0.0001 % O dB 20 dB Info BW 20.000 MHz

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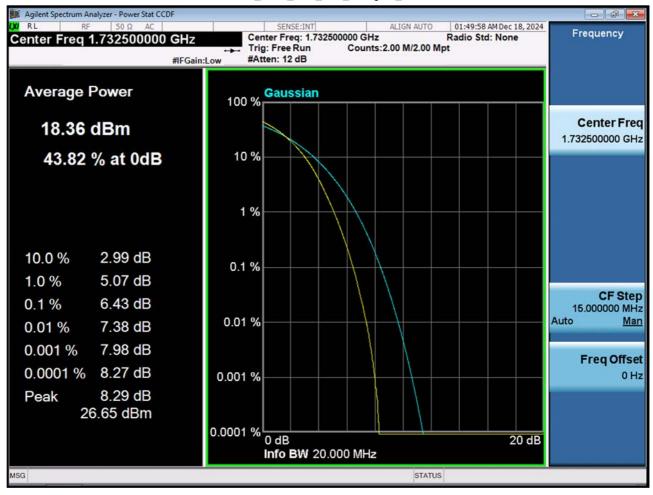
## LTE B4\_20 M\_PAR\_Mid\_64QAM\_FullRB



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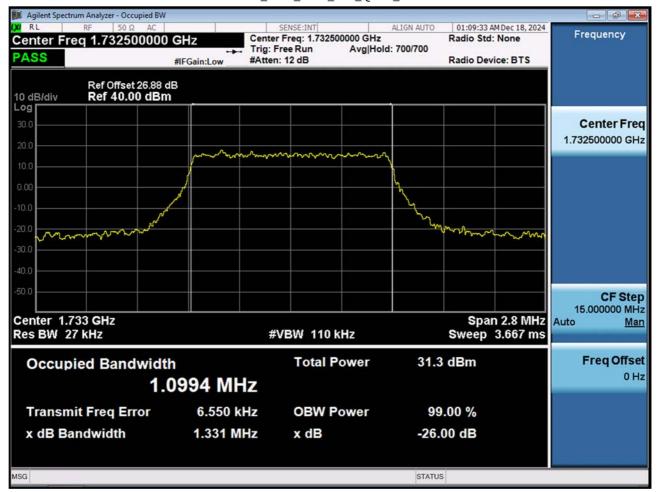


### LTE B4\_20 M\_PAR\_Mid\_256QAM\_FullRB



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LTE B4\_1.4M\_OBW\_Mid\_QPSK\_FullRB

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#### LTE B4\_1.4M\_OBW\_Mid\_16QAM\_FullRB

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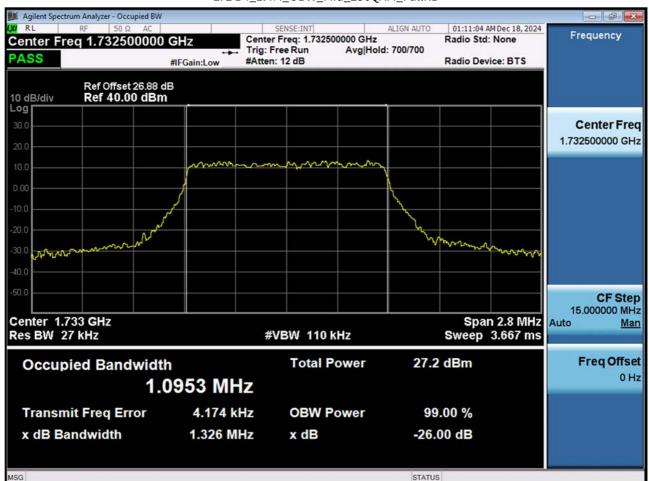


STATUS

LTE B4\_1.4M\_OBW\_Mid\_64QAM\_FullRB

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LTE B4\_1.4M\_OBW\_Mid\_256QAM\_FullRB

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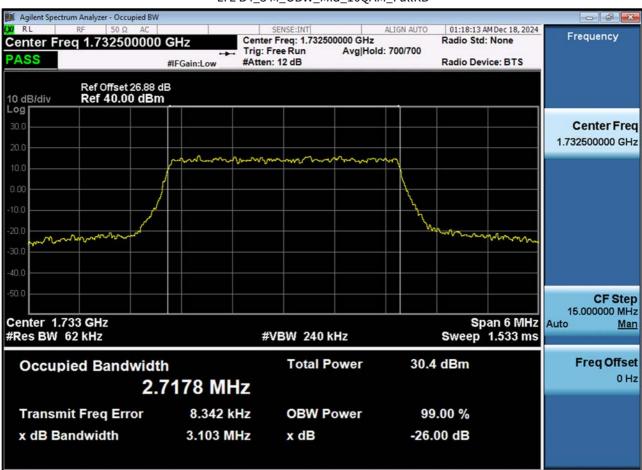
#### Agilent Spectrum Analyzer - Occupied BW 01:17:48 AM Dec 18, 2024 SENSE:INT ALIGN AUTO Frequency Center Freq: 1.732500000 GHz Radio Std: None Center Freq 1.732500000 GHz Avg|Hold: 700/700 Trig: Free Run **PASS** #Atten: 12 dB Radio Device: BTS #IFGain:Low Ref Offset 26.88 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.732500000 GHz **CF Step** 15.000000 MHz Center 1.733 GHz Span 6 MHz Auto Man #Res BW 62 kHz **#VBW 240 kHz** Sweep 1.533 ms **Freq Offset Total Power** 31.3 dBm **Occupied Bandwidth** 0 Hz 2.7154 MHz **Transmit Freq Error** 5.816 kHz **OBW Power** 99.00 % x dB Bandwidth -26.00 dB 3.122 MHz x dB

STATUS

LTE B4\_3 M\_OBW\_Mid\_QPSK\_FullRB

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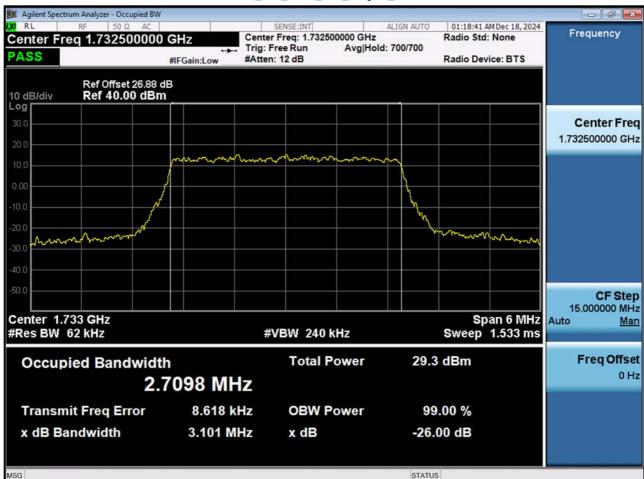


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LTE B4\_3 M\_OBW\_Mid\_16QAM\_FullRB

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LTE B4\_3 M\_OBW\_Mid\_64QAM\_FullRB

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#### Agilent Spectrum Analyzer - Occupied BW 01:19:02 AM Dec 18, 2024 SENSE:INT ALIGN AUTO Frequency Center Freq: 1.732500000 GHz Radio Std: None Center Freq 1.732500000 GHz Avg|Hold: 700/700 Trig: Free Run **PASS** #Atten: 12 dB Radio Device: BTS #IFGain:Low Ref Offset 26.88 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.732500000 GHz **CF Step** 15.000000 MHz Center 1.733 GHz Span 6 MHz Auto Man #Res BW 62 kHz **#VBW 240 kHz** Sweep 1.533 ms **Freq Offset Total Power** 27.2 dBm **Occupied Bandwidth** 0 Hz 2.7140 MHz **Transmit Freq Error** 6.924 kHz **OBW Power** 99.00 % x dB Bandwidth 3.104 MHz -26.00 dB x dB

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LTE B4\_3 M\_OBW\_Mid\_256QAM\_FullRB

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#### Agilent Spectrum Analyzer - Occupied BW 01:25:40 AM Dec 18, 2024 SENSE:INT ALIGN AUTO Frequency Center Freq: 1.732500000 GHz Radio Std: None Center Freq 1.732500000 GHz Avg|Hold: 700/700 Trig: Free Run **PASS** #Atten: 12 dB Radio Device: BTS #IFGain:Low Ref Offset 26.88 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.732500000 GHz **CF Step** 15.000000 MHz Center 1.733 GHz Span 10 MHz Auto Man #Res BW 100 kHz **#VBW 390 kHz** Sweep 1 ms **Freq Offset Total Power** 31.3 dBm **Occupied Bandwidth** 0 Hz 4.5555 MHz **Transmit Freq Error** 19.032 kHz **OBW Power** 99.00 % x dB Bandwidth 5.494 MHz -26.00 dB x dB

STATUS

LTE B4\_5 M\_OBW\_Mid\_QPSK\_FullRB

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#### Agilent Spectrum Analyzer - Occupied BW 01:26:04 AM Dec 18, 2024 SENSE:INT ALIGN AUTO Frequency Center Freq: 1.732500000 GHz Radio Std: None Center Freq 1.732500000 GHz Avg|Hold: 700/700 Trig: Free Run **PASS** #Atten: 12 dB Radio Device: BTS #IFGain:Low Ref Offset 26.88 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.732500000 GHz **CF Step** 15.000000 MHz Center 1.733 GHz Span 10 MHz Auto Man #Res BW 100 kHz **#VBW 390 kHz** Sweep 1 ms **Freq Offset Total Power** 30.3 dBm **Occupied Bandwidth** 0 Hz 4.5272 MHz **Transmit Freq Error** 17.972 kHz **OBW Power** 99.00 % x dB Bandwidth 5.232 MHz -26.00 dB x dB

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LTE B4\_5 M\_OBW\_Mid\_16QAM\_FullRB

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#### LTE B4\_5 M\_OBW\_Mid\_64QAM\_FullRB Agilent Spectrum Analyzer - Occupied BW 01:26:30 AM Dec 18, 2024 SENSE:INT ALIGN AUTO Frequency Center Freq: 1.732500000 GHz Radio Std: None Center Freq 1.732500000 GHz Avg|Hold: 700/700 Trig: Free Run **PASS** #Atten: 12 dB Radio Device: BTS #IFGain:Low Ref Offset 26.88 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.732500000 GHz **CF Step** 15.000000 MHz Center 1.733 GHz Span 10 MHz Auto Man #Res BW 100 kHz **#VBW 390 kHz** Sweep 1 ms **Freq Offset Total Power** 29.2 dBm **Occupied Bandwidth** 0 Hz 4.5222 MHz **Transmit Freq Error** 20.248 kHz **OBW Power** 99.00 % x dB Bandwidth 5.292 MHz -26.00 dB x dB

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**Transmit Freq Error** 

x dB Bandwidth

MSG

14.826 kHz

5.260 MHz

#### Agilent Spectrum Analyzer - Occupied BW 01:26:50 AM Dec 18, 2024 SENSE:INT ALIGN AUTO Frequency Center Freq: 1.732500000 GHz Radio Std: None Center Freq 1.732500000 GHz Avg|Hold: 700/700 Trig: Free Run **PASS** #Atten: 12 dB Radio Device: BTS #IFGain:Low Ref Offset 26.88 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.732500000 GHz CF Step 15.000000 MHz Center 1.733 GHz Span 10 MHz Auto Man #Res BW 100 kHz **#VBW 390 kHz** Sweep 1 ms **Freq Offset Total Power** 27.1 dBm **Occupied Bandwidth** 0 Hz 4.5288 MHz

**OBW Power** 

x dB

99.00 %

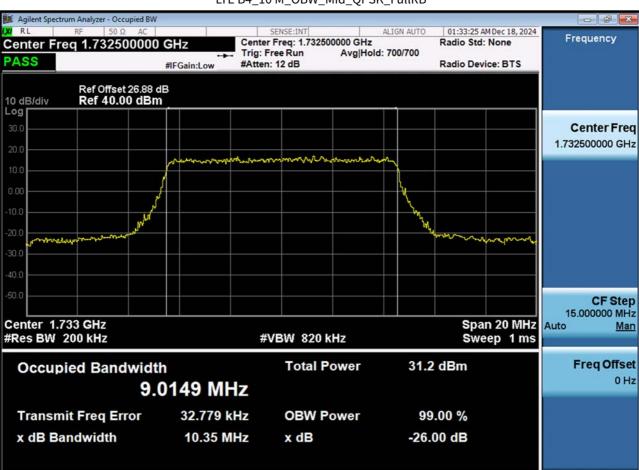
-26.00 dB

STATUS

#### LTE B4\_5 M\_OBW\_Mid\_256QAM\_FullRB

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LTE B4\_10 M\_OBW\_Mid\_QPSK\_FullRB

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#### Agilent Spectrum Analyzer - Occupied BW 01:33:48 AM Dec 18, 2024 SENSE:INT ALIGN AUTO Frequency Center Freq: 1.732500000 GHz Radio Std: None Center Freq 1.732500000 GHz Avg|Hold: 700/700 Trig: Free Run **PASS** #Atten: 12 dB Radio Device: BTS #IFGain:Low Ref Offset 26.88 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.732500000 GHz hammen ha **CF Step** 15.000000 MHz Center 1.733 GHz Span 20 MHz Auto Man #Res BW 200 kHz **#VBW 820 kHz** Sweep 1 ms **Freq Offset Total Power** 30.2 dBm **Occupied Bandwidth** 0 Hz

**OBW Power** 

x dB

99.00 %

-26.00 dB

STATUS

9.0400 MHz

24.141 kHz

10.41 MHz

**Transmit Freq Error** 

x dB Bandwidth

MSG

#### LTE B4\_10 M\_OBW\_Mid\_16QAM\_FullRB

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x dB Bandwidth

MSG

#### Agilent Spectrum Analyzer - Occupied BW 01:34:13 AM Dec 18, 2024 SENSE:INT ALIGN AUTO Frequency Center Freq: 1.732500000 GHz Radio Std: None Center Freq 1.732500000 GHz Avg|Hold: 700/700 Trig: Free Run **PASS** #Atten: 12 dB Radio Device: BTS #IFGain:Low Ref Offset 26.88 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.732500000 GHz **CF Step** 15.000000 MHz Center 1.733 GHz Span 20 MHz Auto Man #Res BW 200 kHz **#VBW 820 kHz** Sweep 1 ms **Freq Offset Total Power** 29.0 dBm **Occupied Bandwidth** 0 Hz 9.0059 MHz **Transmit Freq Error** 32.281 kHz **OBW Power** 99.00 %

x dB

10.26 MHz

-26.00 dB

STATUS

#### LTE B4\_10 M\_OBW\_Mid\_64QAM\_FullRB

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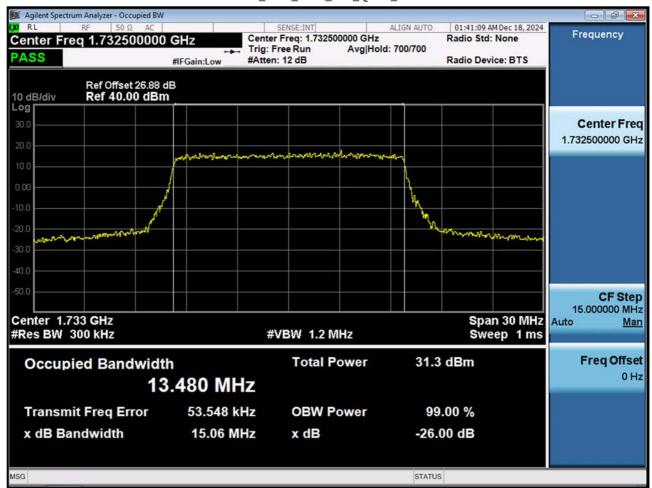
#### Agilent Spectrum Analyzer - Occupied BW 01:34:32 AM Dec 18, 2024 SENSE:INT ALIGN AUTO Frequency Center Freq: 1.732500000 GHz Radio Std: None Center Freq 1.732500000 GHz Avg|Hold: 700/700 Trig: Free Run **PASS** #Atten: 12 dB Radio Device: BTS #IFGain:Low Ref Offset 26.88 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.732500000 GHz Wanter 1. **CF Step** 15.000000 MHz Center 1.733 GHz Span 20 MHz Auto Man #Res BW 200 kHz **#VBW 820 kHz** Sweep 1 ms **Freq Offset Total Power** 27.2 dBm **Occupied Bandwidth** 0 Hz 8.9972 MHz **Transmit Freq Error** 29.073 kHz **OBW Power** 99.00 % x dB Bandwidth 10.19 MHz -26.00 dB x dB

STATUS

LTE B4\_10 M\_OBW\_Mid\_256QAM\_FullRB

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LTE B4\_15 M\_OBW\_Mid\_QPSK\_FullRB

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#### Agilent Spectrum Analyzer - Occupied BW 01:41:32 AM Dec 18, 2024 SENSE:INT ALIGN AUTO Frequency Center Freq: 1.732500000 GHz Radio Std: None Center Freq 1.732500000 GHz Avg|Hold: 700/700 Trig: Free Run **PASS** #Atten: 12 dB Radio Device: BTS #IFGain:Low Ref Offset 26.88 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.732500000 GHz **CF Step** 15.000000 MHz Center 1.733 GHz Span 30 MHz Auto Man #Res BW 300 kHz **#VBW 1.2 MHz** Sweep 1 ms **Freq Offset Occupied Bandwidth Total Power** 30.3 dBm 0 Hz 13.481 MHz **Transmit Freq Error** 53.420 kHz **OBW Power** 99.00 % x dB Bandwidth 15.28 MHz -26.00 dB x dB

STATUS

#### LTE B4\_15 M\_OBW\_Mid\_16QAM\_FullRB

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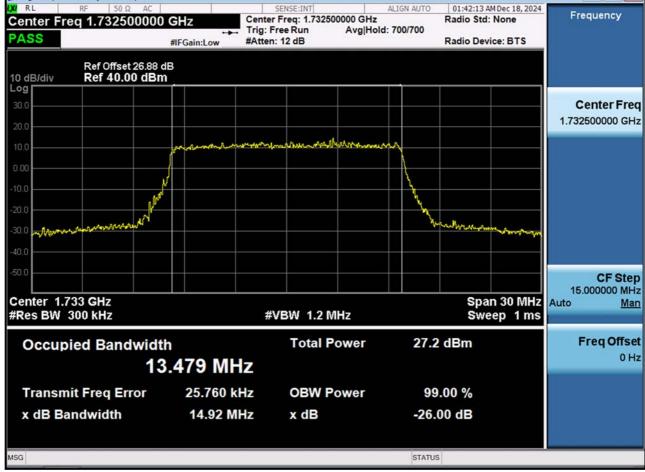
#### LTE B4\_15 M\_OBW\_Mid\_64QAM\_FullRB Agilent Spectrum Analyzer - Occupied BW 01:41:55 AM Dec 18, 2024 SENSE:INT ALIGN AUTO Frequency Center Freq: 1.732500000 GHz Radio Std: None Center Freq 1.732500000 GHz Avg|Hold: 700/700 Trig: Free Run **PASS** #Atten: 12 dB Radio Device: BTS #IFGain:Low Ref Offset 26.88 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.732500000 GHz **CF Step** 15.000000 MHz Center 1.733 GHz Span 30 MHz Auto Man #Res BW 300 kHz **#VBW 1.2 MHz** Sweep 1 ms **Freq Offset Occupied Bandwidth Total Power** 29.2 dBm 0 Hz 13.492 MHz **Transmit Freq Error** 67.603 kHz **OBW Power** 99.00 % x dB Bandwidth 15.31 MHz -26.00 dB x dB

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# LTE B4\_15 M\_OBW\_Mid\_256QAM\_FullRB Agilent Spectrum Analyzer - Occupied BW RL RF 50 Ω AC | SENSE:INT | ALIGN AUTO | 01 Center Freq 1.732500000 GHz | Center Freq: 1.732500000 GHz | Rac



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#### Agilent Spectrum Analyzer - Occupied BW 01:48:48 AM Dec 18, 2024 SENSE:INT ALIGN AUTO Frequency Center Freq: 1.732500000 GHz Radio Std: None Center Freq 1.732500000 GHz Avg|Hold: 700/700 Trig: Free Run **PASS** #Atten: 12 dB Radio Device: BTS #IFGain:Low Ref Offset 26.88 dB Ref 40.00 dBm 10 dB/div Log Center Freq 1.732500000 GHz **CF Step** 15.000000 MHz Span 40 MHz Auto Center 1.733 GHz Man #Res BW 390 kHz **#VBW 1.6 MHz** Sweep 1 ms **Freq Offset Occupied Bandwidth Total Power** 31.3 dBm 0 Hz 17.950 MHz **Transmit Freq Error** 63.020 kHz **OBW Power** 99.00 % x dB Bandwidth 19.89 MHz -26.00 dB x dB

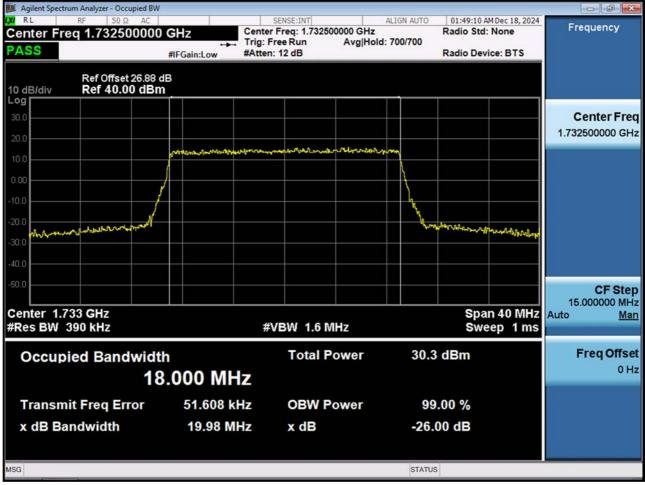
STATUS

#### LTE B4\_20 M\_OBW\_Mid\_QPSK\_FullRB

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## LTE B4\_20 M\_OBW\_Mid\_16QAM\_FullRB



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