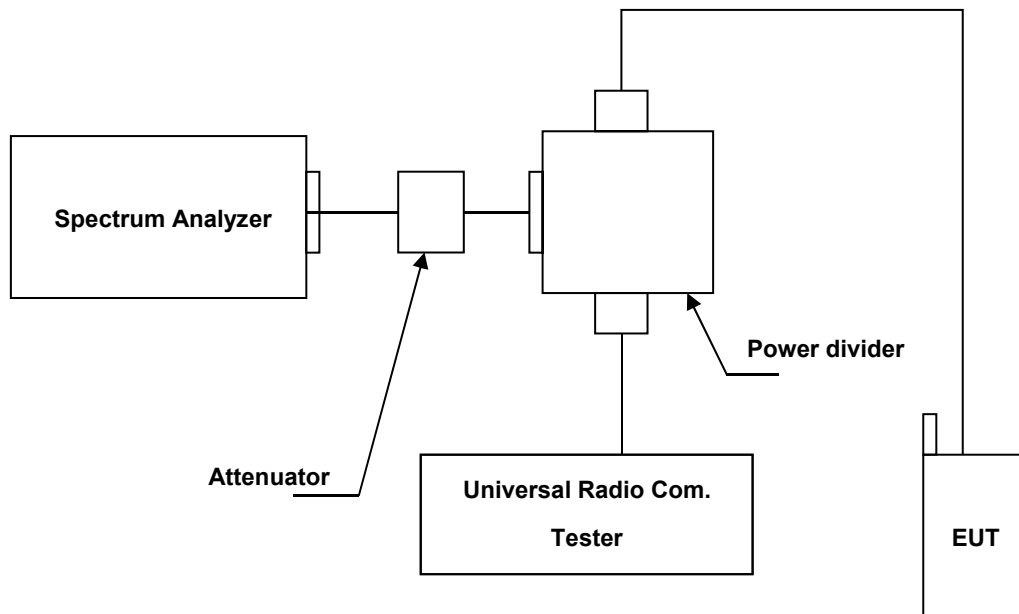


7.2. Setup

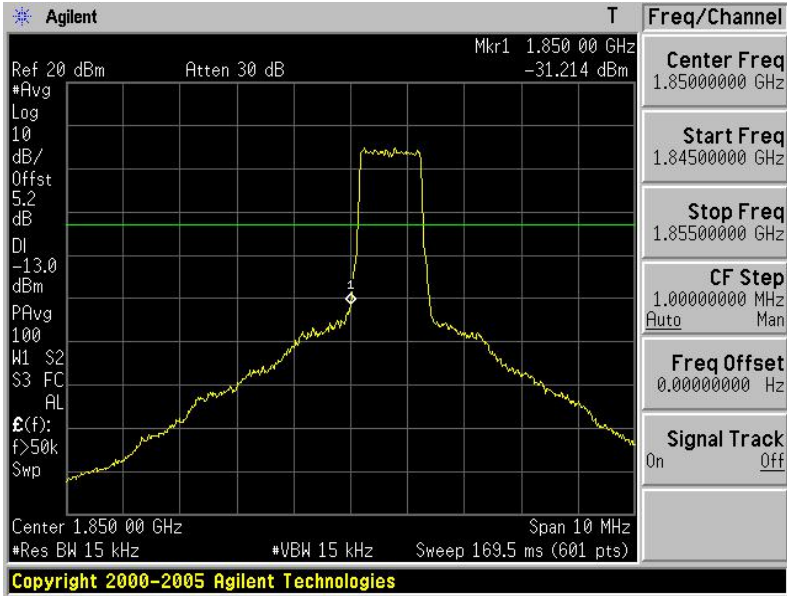
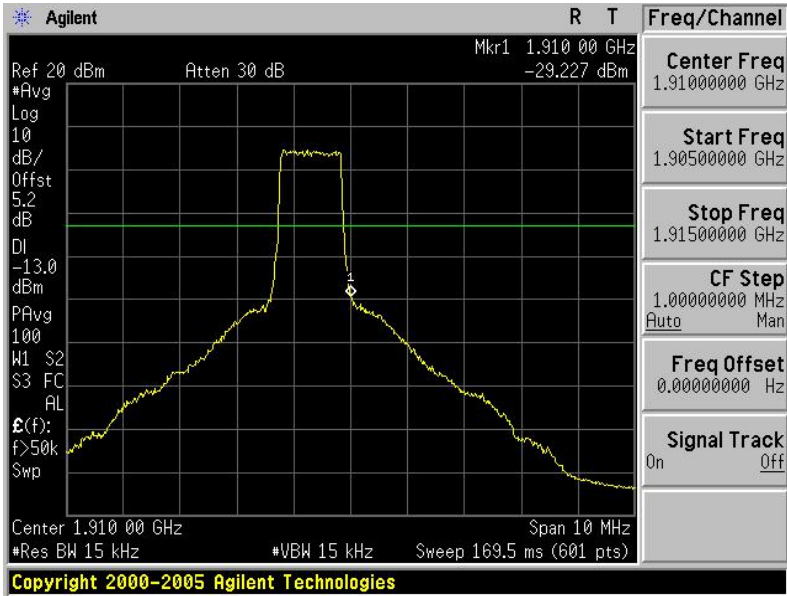


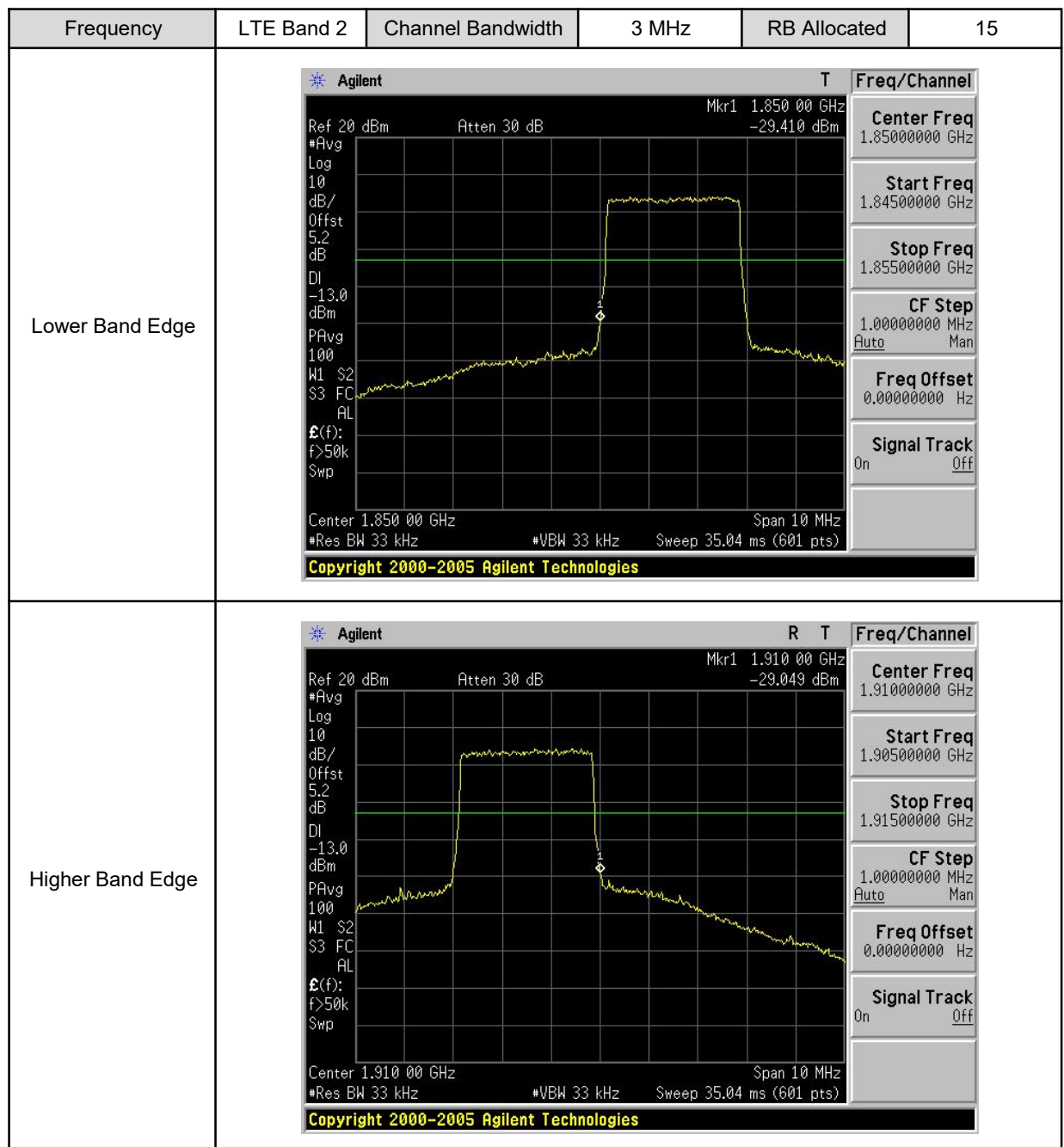
7.3. Test Procedure

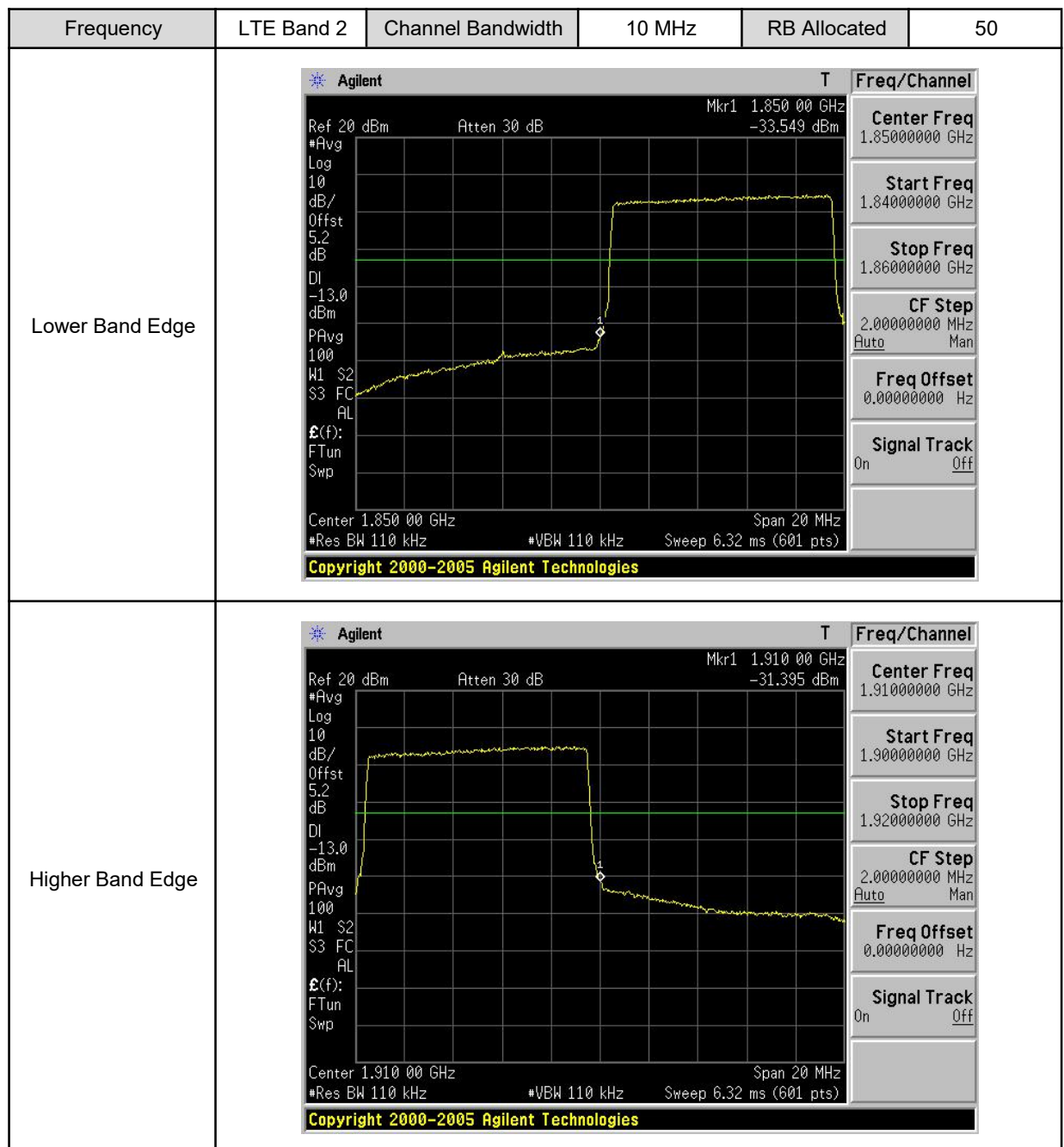
The measurement is made according to FCC rules:

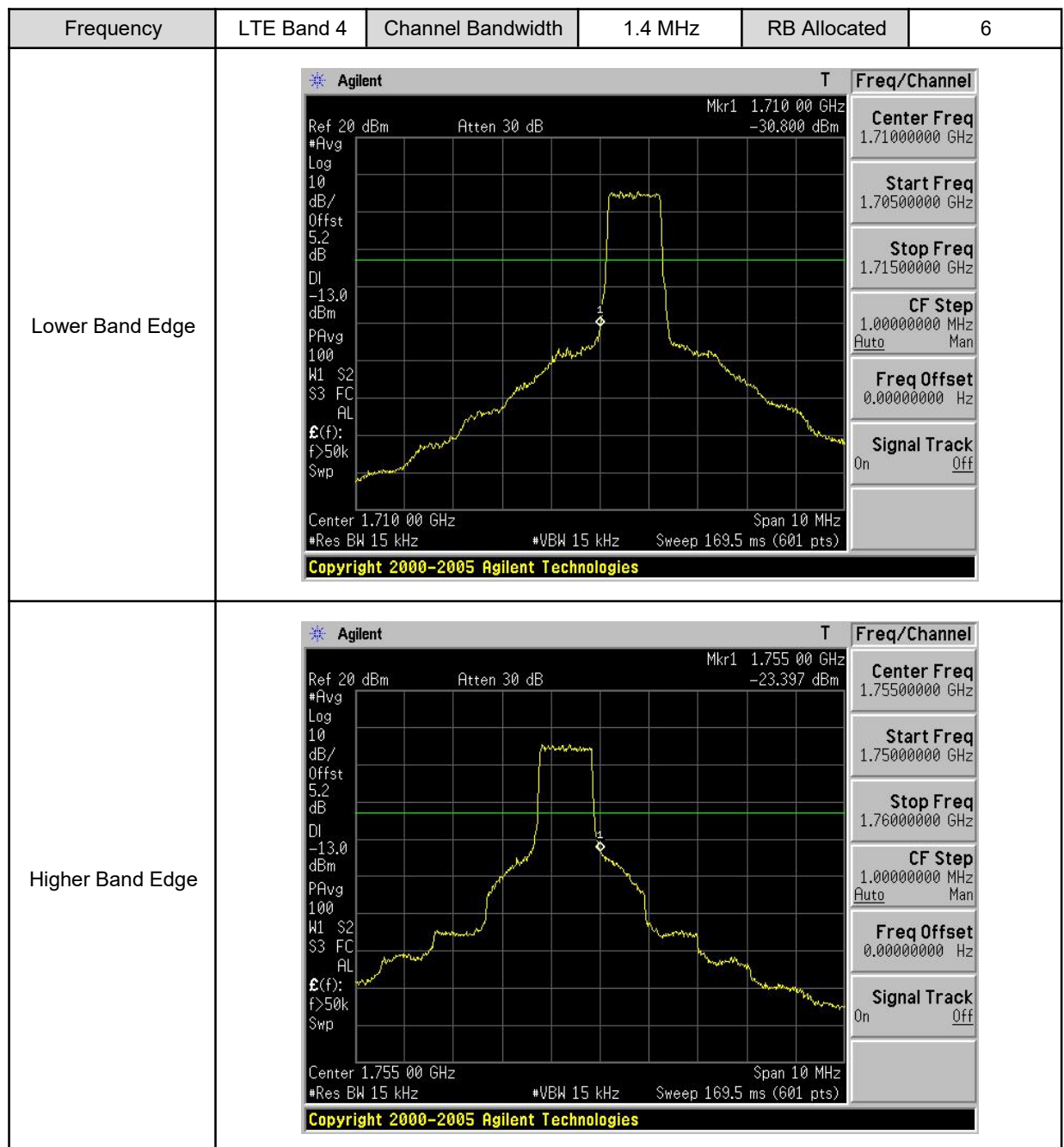
- The EUT was set up for the maximum peak power with LTE/WCDMA link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.)
- The band edge measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer. This splitter loss and cable loss are the worst loss 7.2 dB in the transmitted path track.
- The center frequency of spectrum is the band edge frequency and span is 10 MHz. RB of the resolution bandwidth of at least one percent of the emission bandwidth.
- Record the max trace plot into the test report.

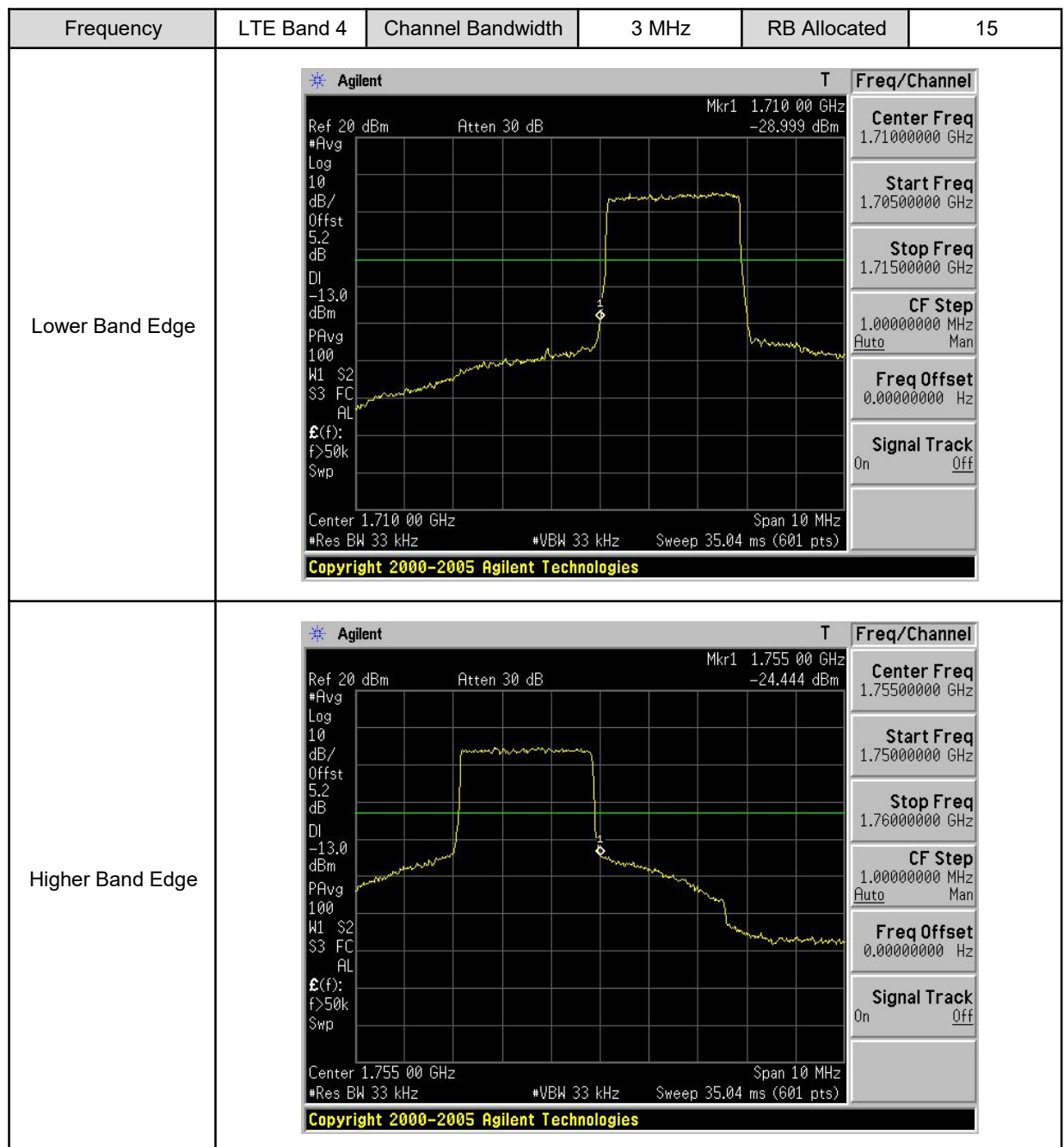
7.4. Test Result

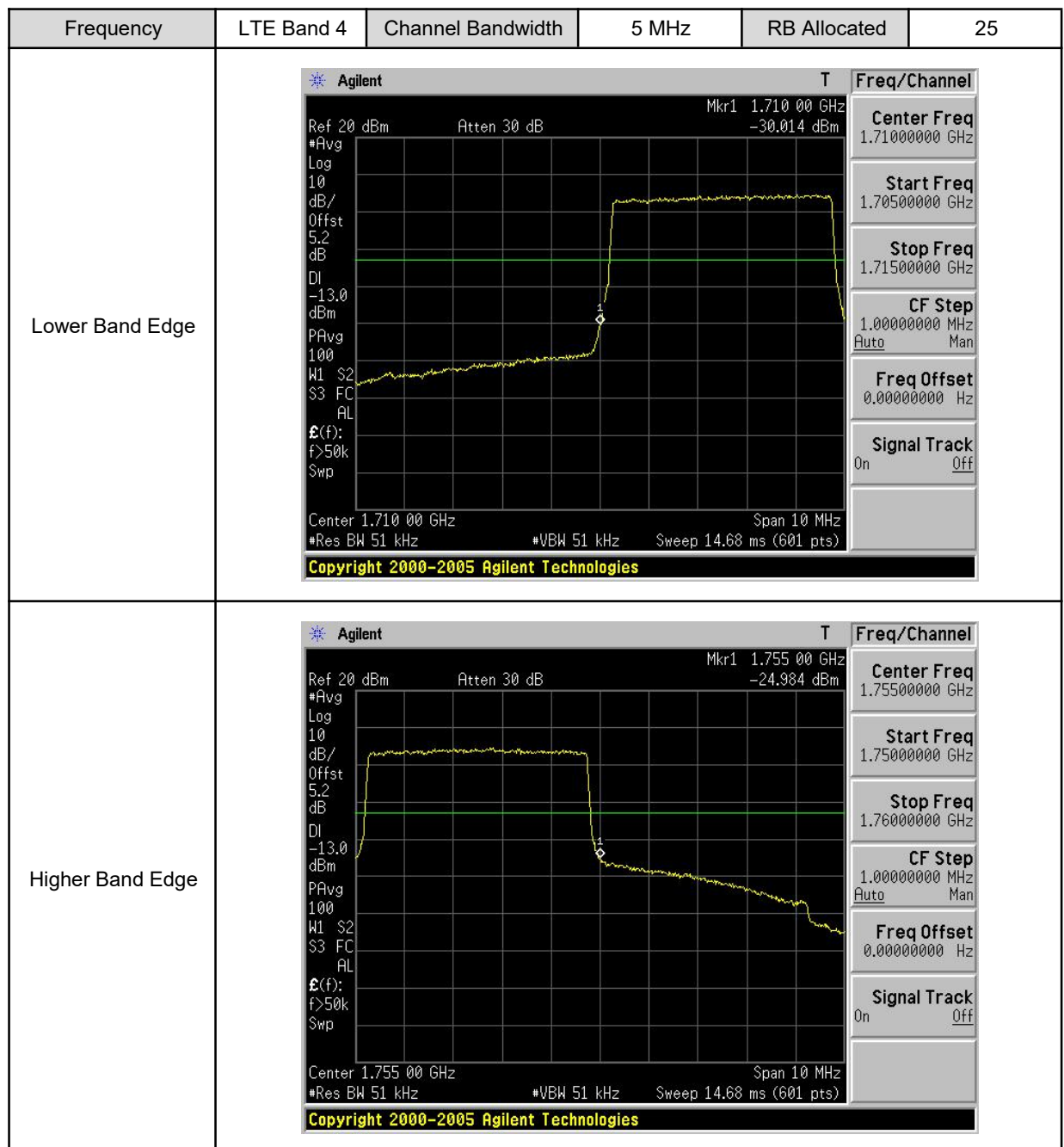
Frequency	LTE Band 2	Channel Bandwidth	1.4 MHz	RB Allocated	6
Lower Band Edge	 Agilent Spectrum Analyzer screenshot showing the Lower Band Edge of an LTE signal. The plot shows a signal centered at 1.85000 GHz with a span of 10 MHz. The signal has a sharp peak at the center and a wider base. The y-axis is labeled 'dBm' and ranges from -13.0 to 0.0. The x-axis is labeled 'GHz' and ranges from 1.845 to 1.855. The signal is labeled 'Mkr1 1.850 00 GHz -31.214 dBm'. The plot shows a signal with a peak at 1.85000 GHz and a wider base. The y-axis is labeled 'dBm' and ranges from -13.0 to 0.0. The x-axis is labeled 'GHz' and ranges from 1.845 to 1.855. The signal is labeled 'Mkr1 1.850 00 GHz -31.214 dBm'.				
Higher Band Edge	 Agilent Spectrum Analyzer screenshot showing the Higher Band Edge of an LTE signal. The plot shows a signal centered at 1.91000 GHz with a span of 10 MHz. The signal has a sharp peak at the center and a wider base. The y-axis is labeled 'dBm' and ranges from -13.0 to 0.0. The x-axis is labeled 'GHz' and ranges from 1.905 to 1.915. The signal is labeled 'Mkr1 1.910 00 GHz -29.227 dBm'. The plot shows a signal with a peak at 1.91000 GHz and a wider base. The y-axis is labeled 'dBm' and ranges from -13.0 to 0.0. The x-axis is labeled 'GHz' and ranges from 1.905 to 1.915. The signal is labeled 'Mkr1 1.910 00 GHz -29.227 dBm'.				

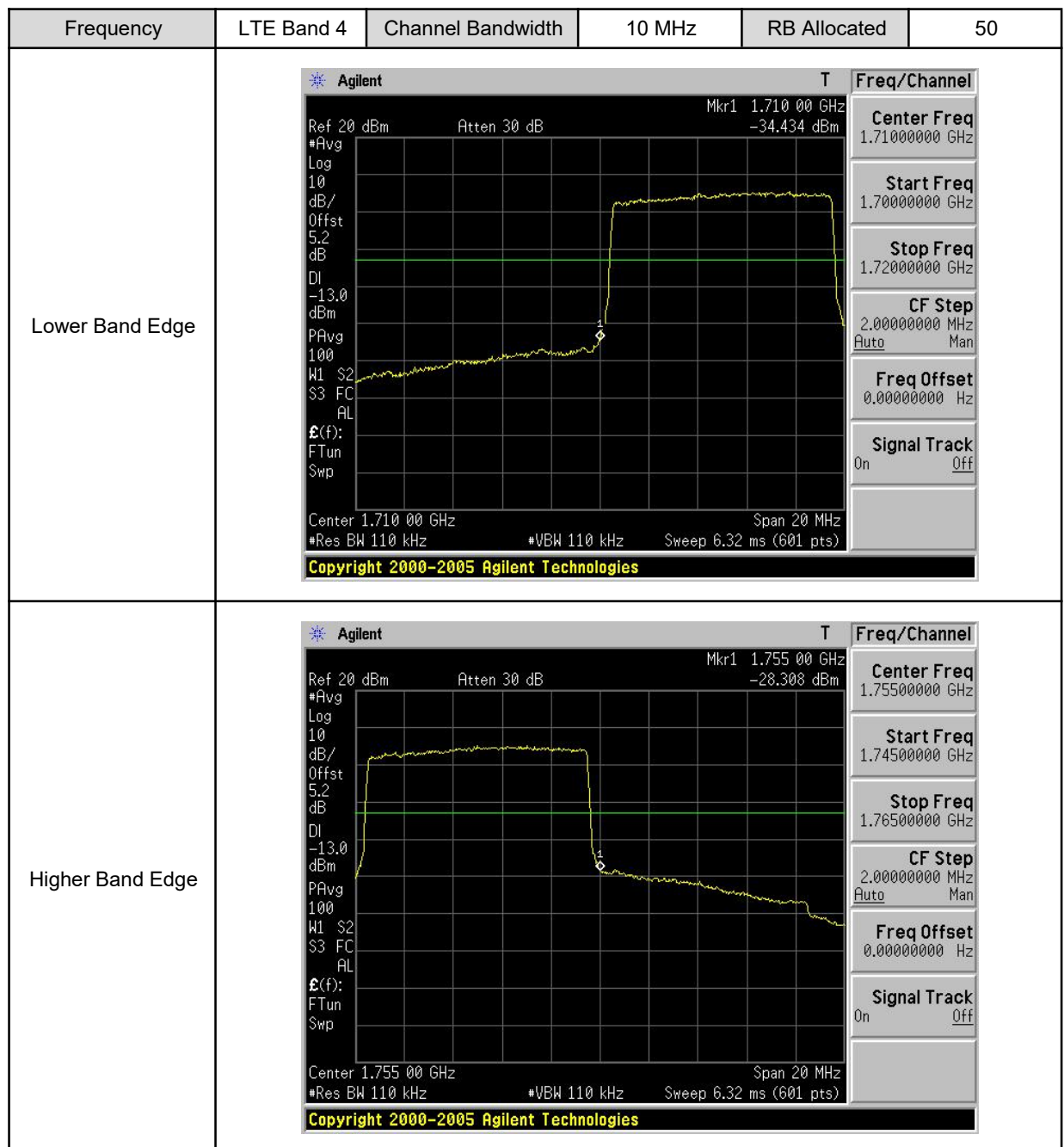


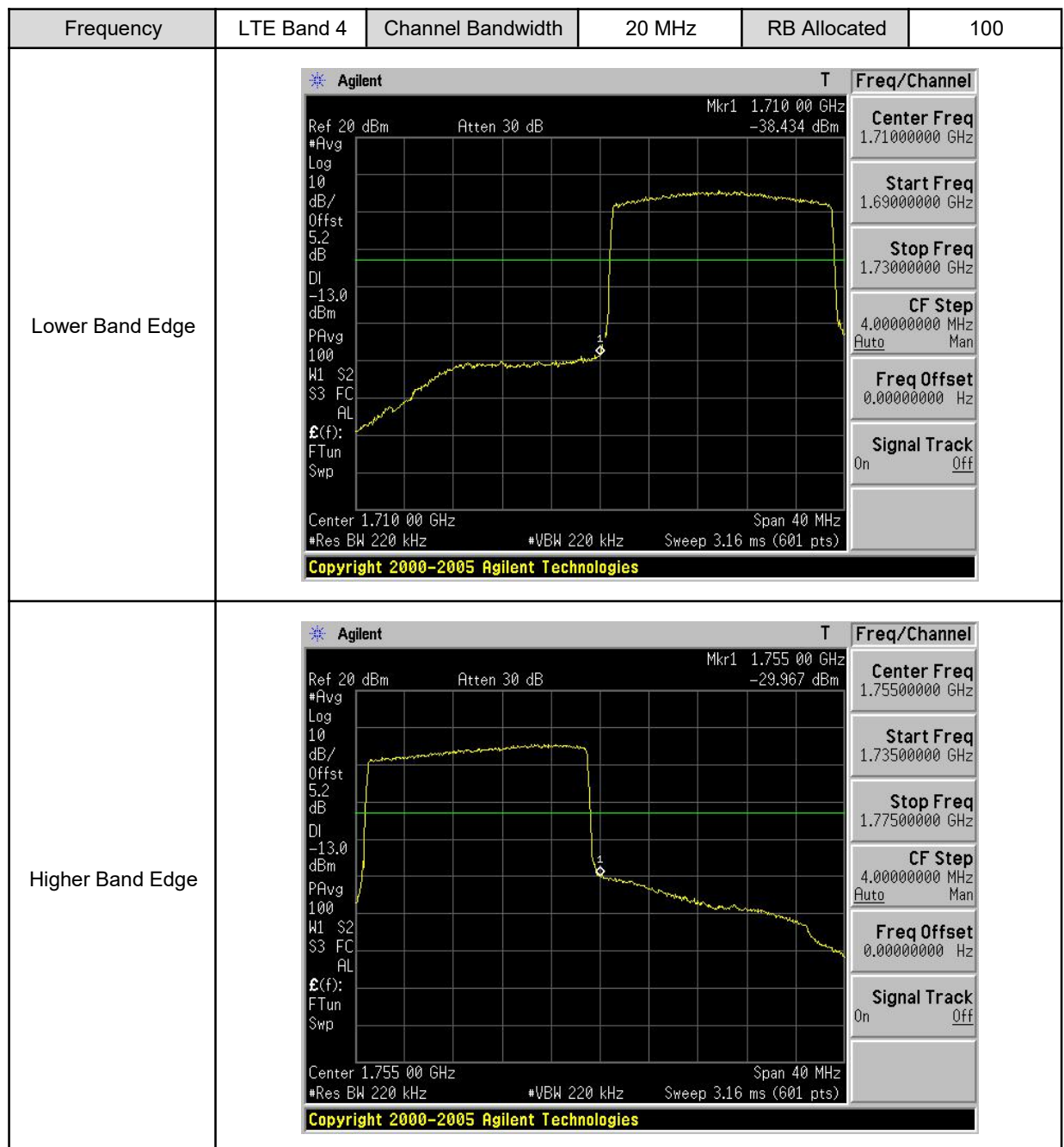


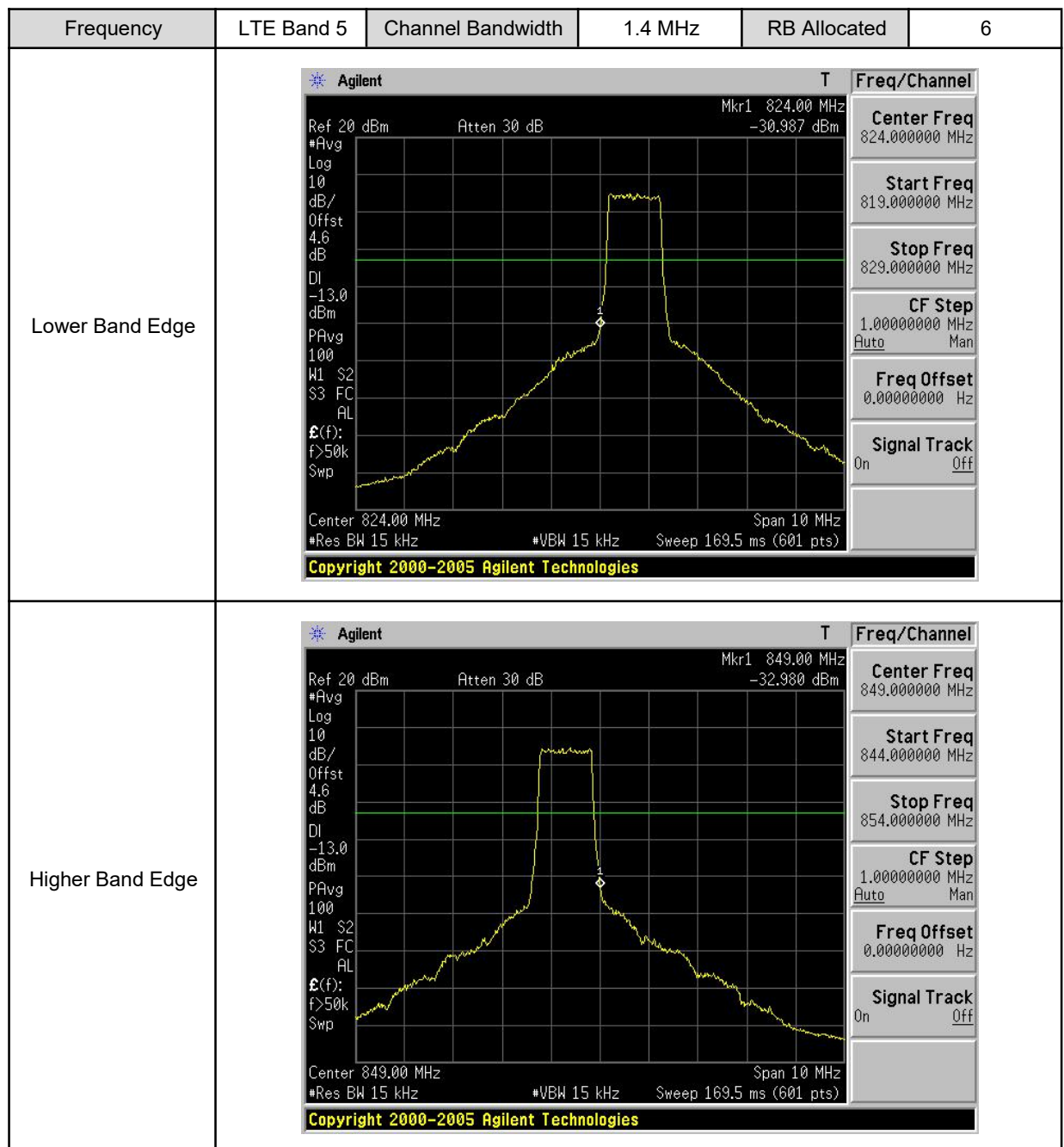


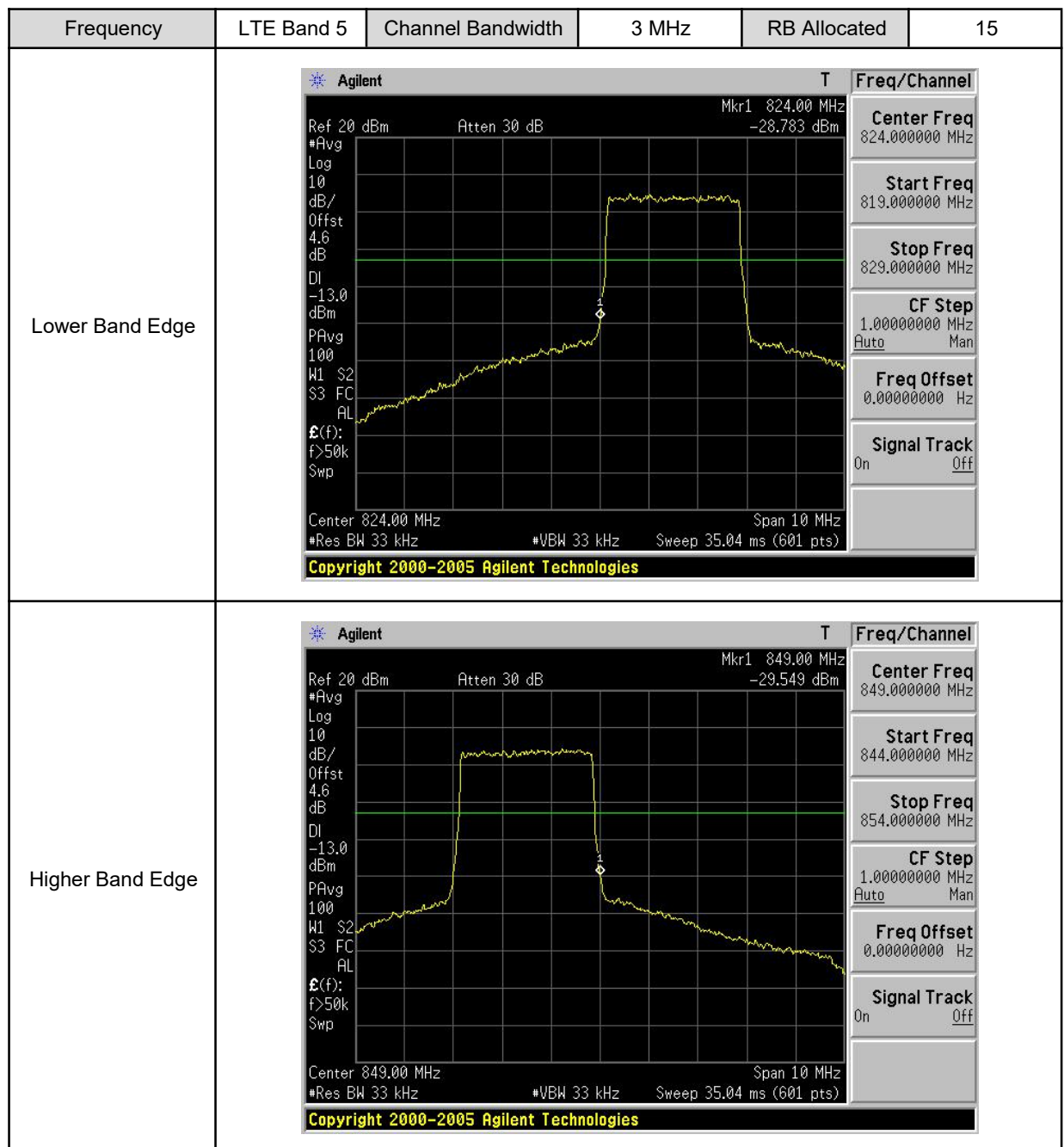


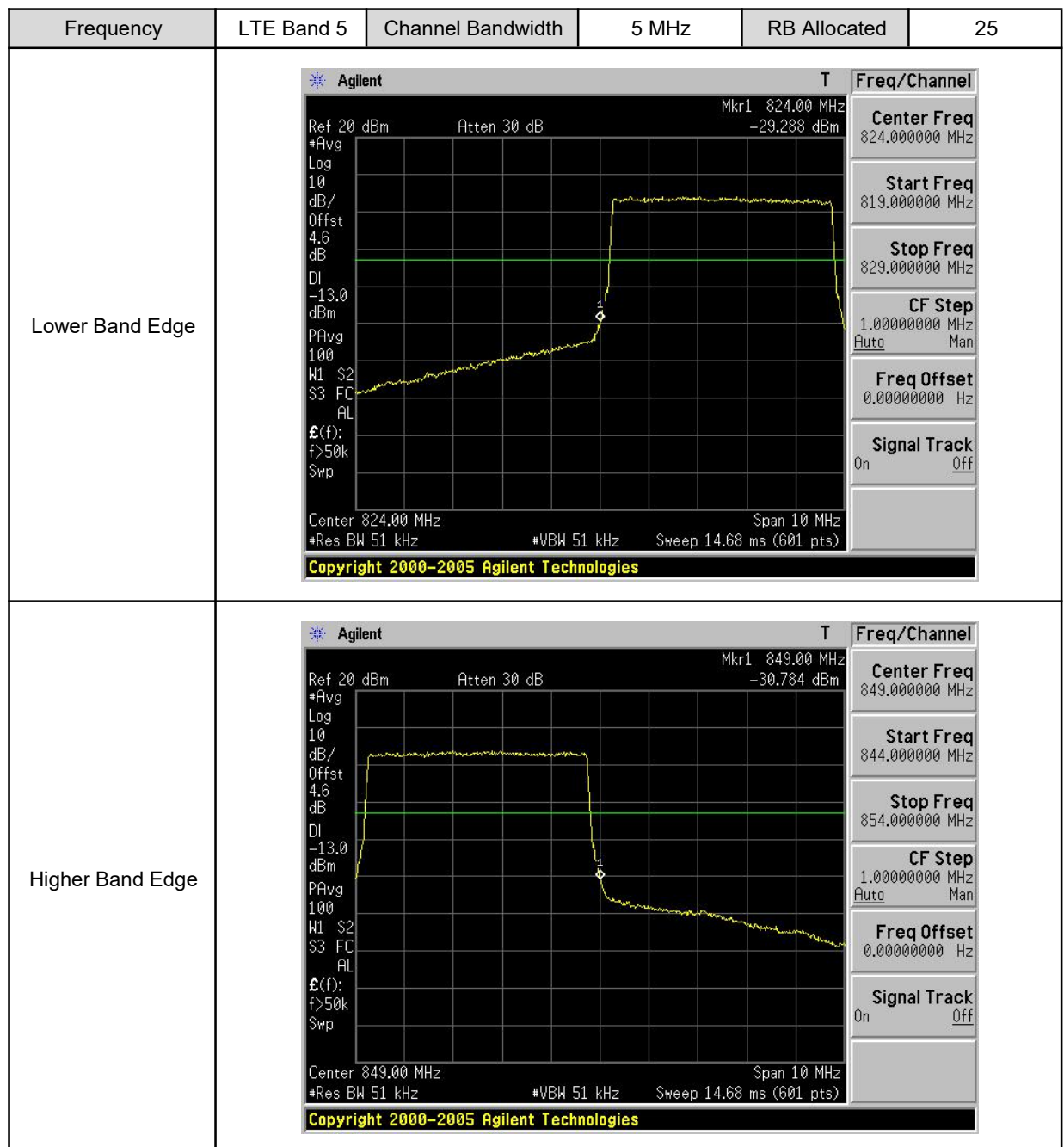


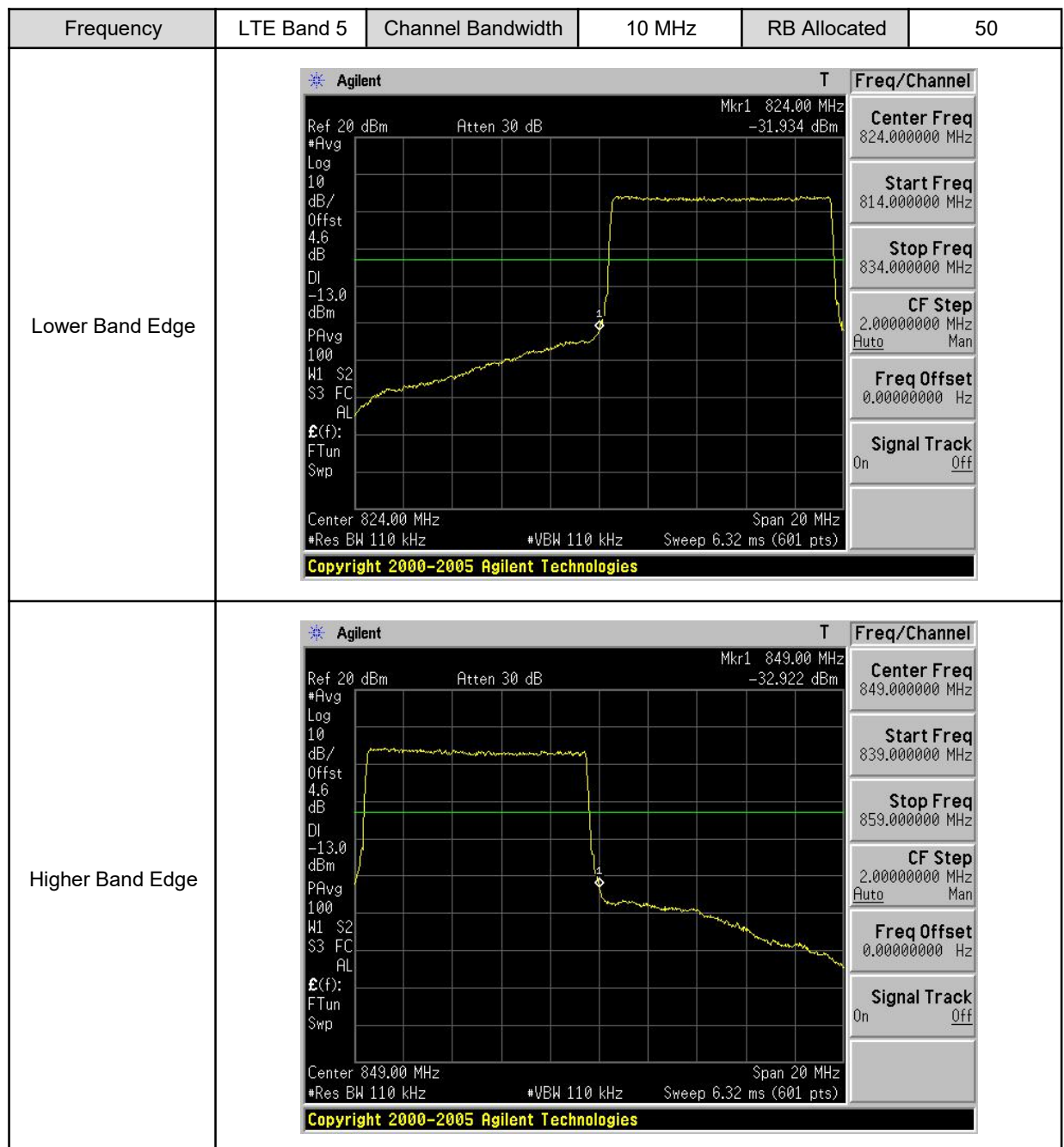


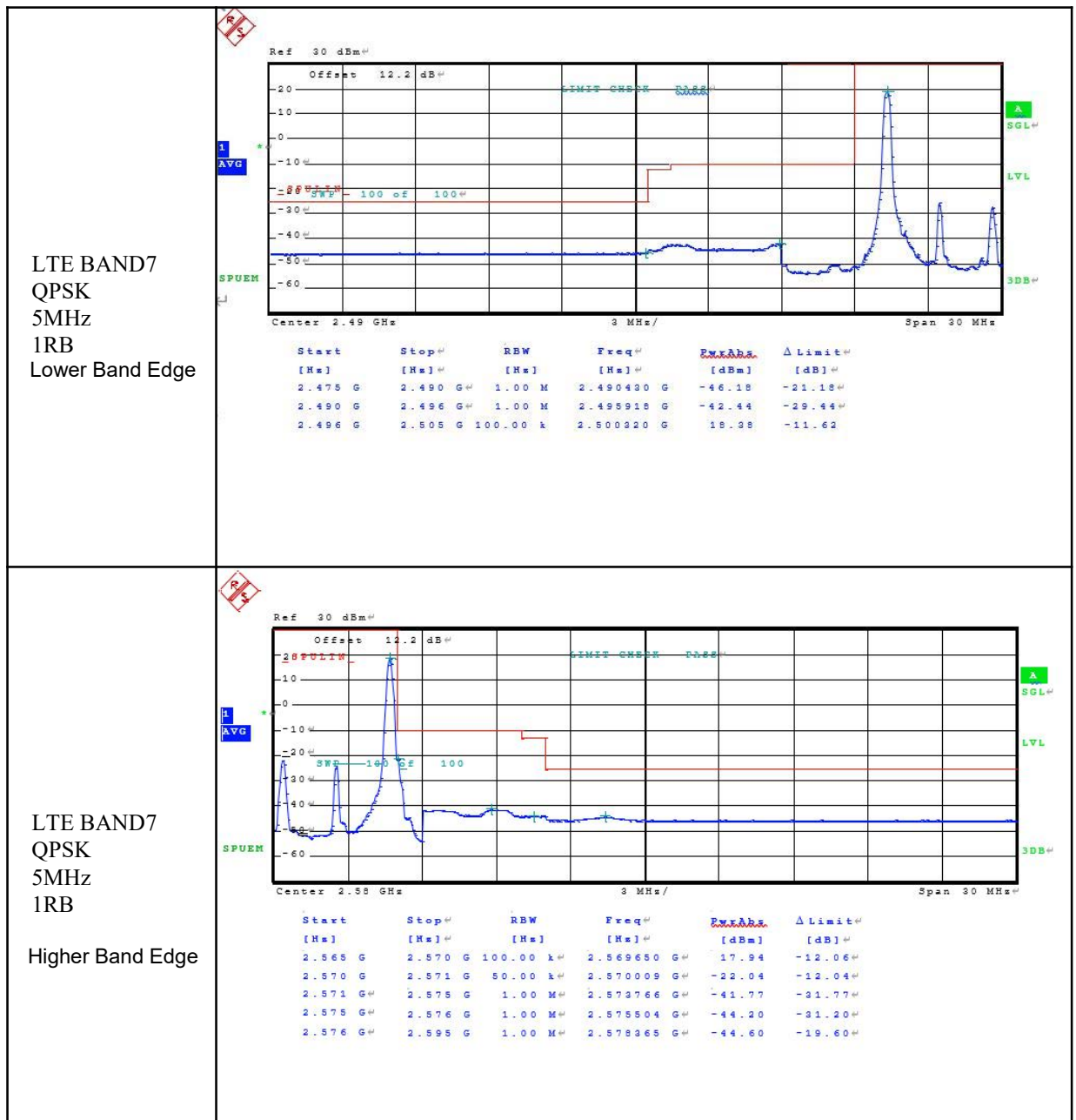


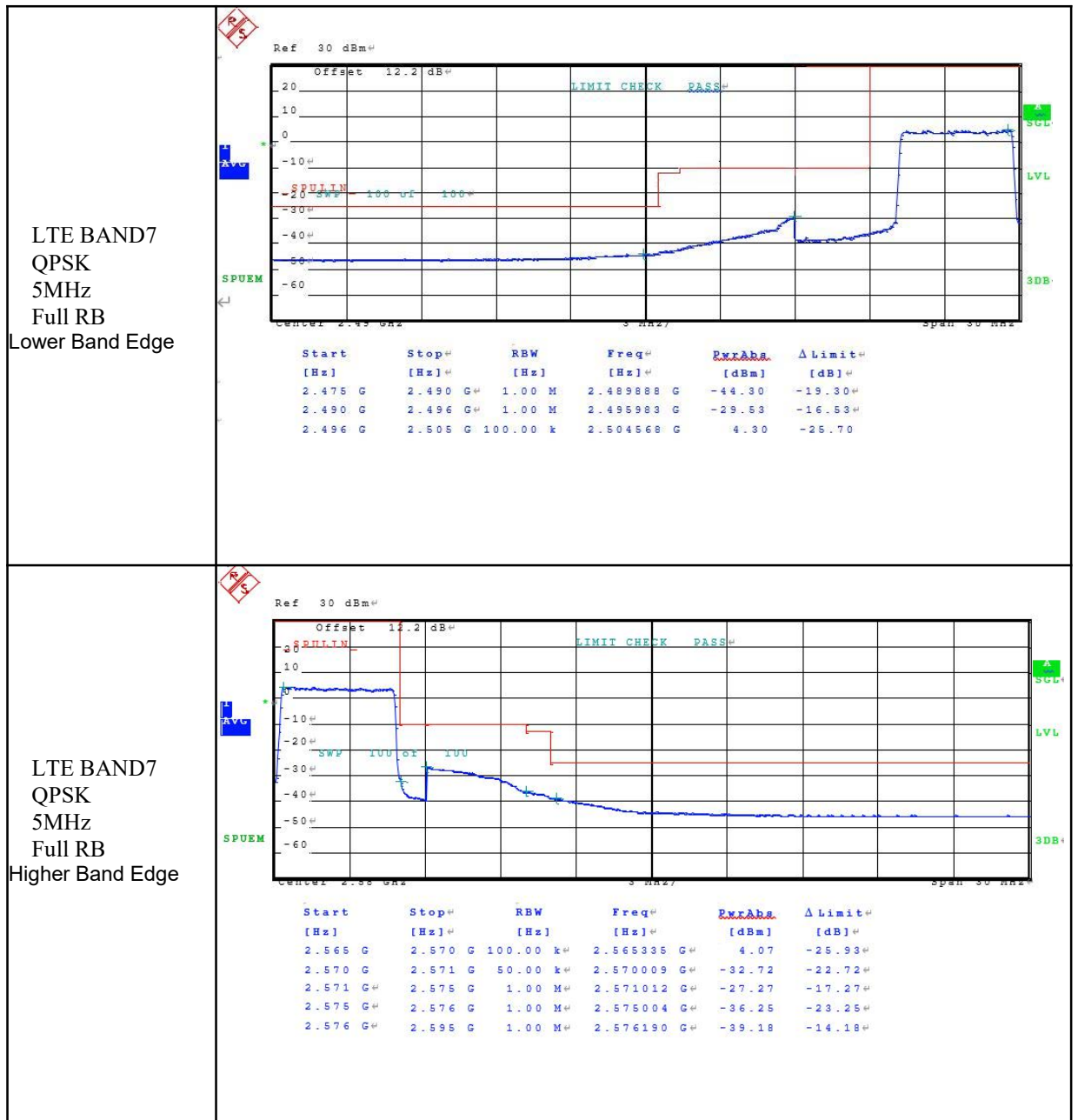


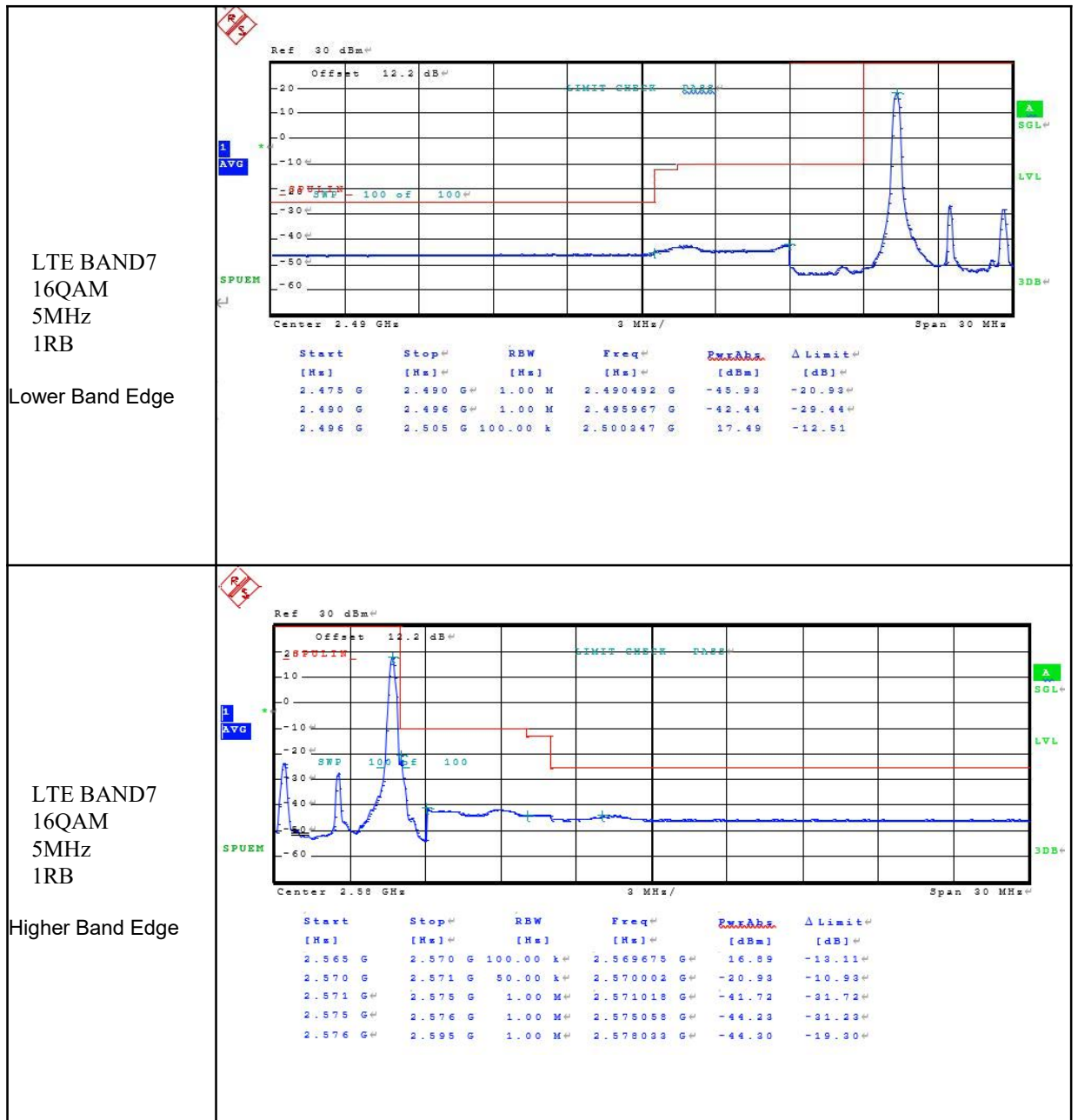


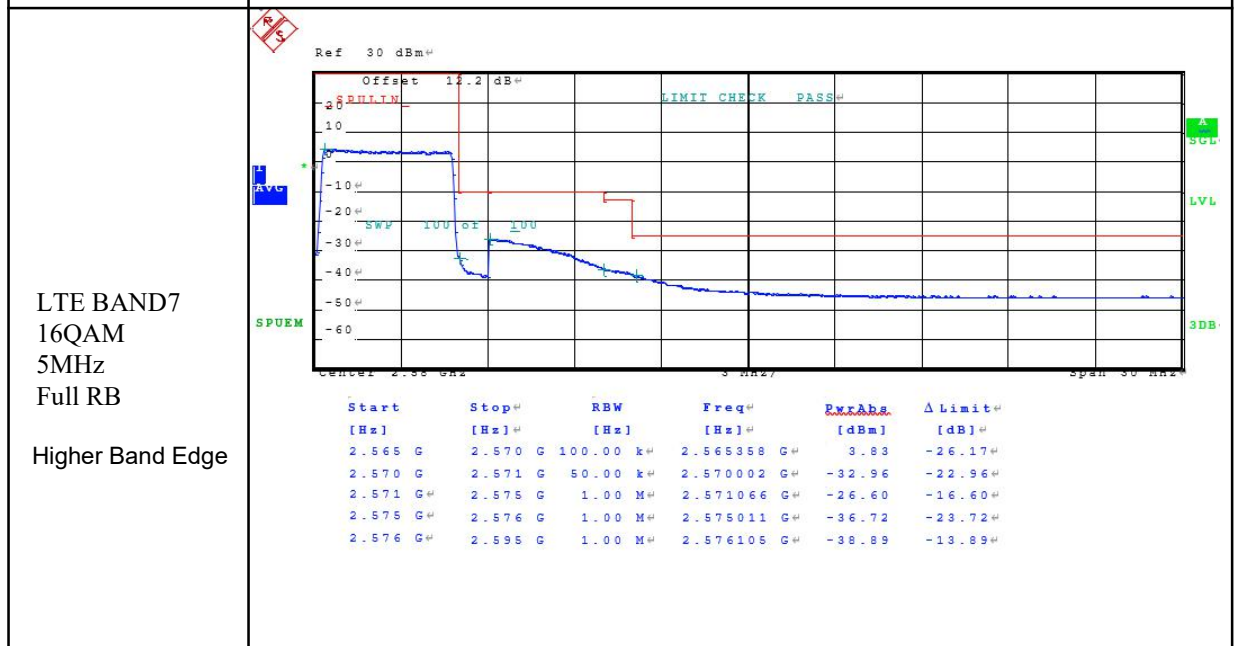
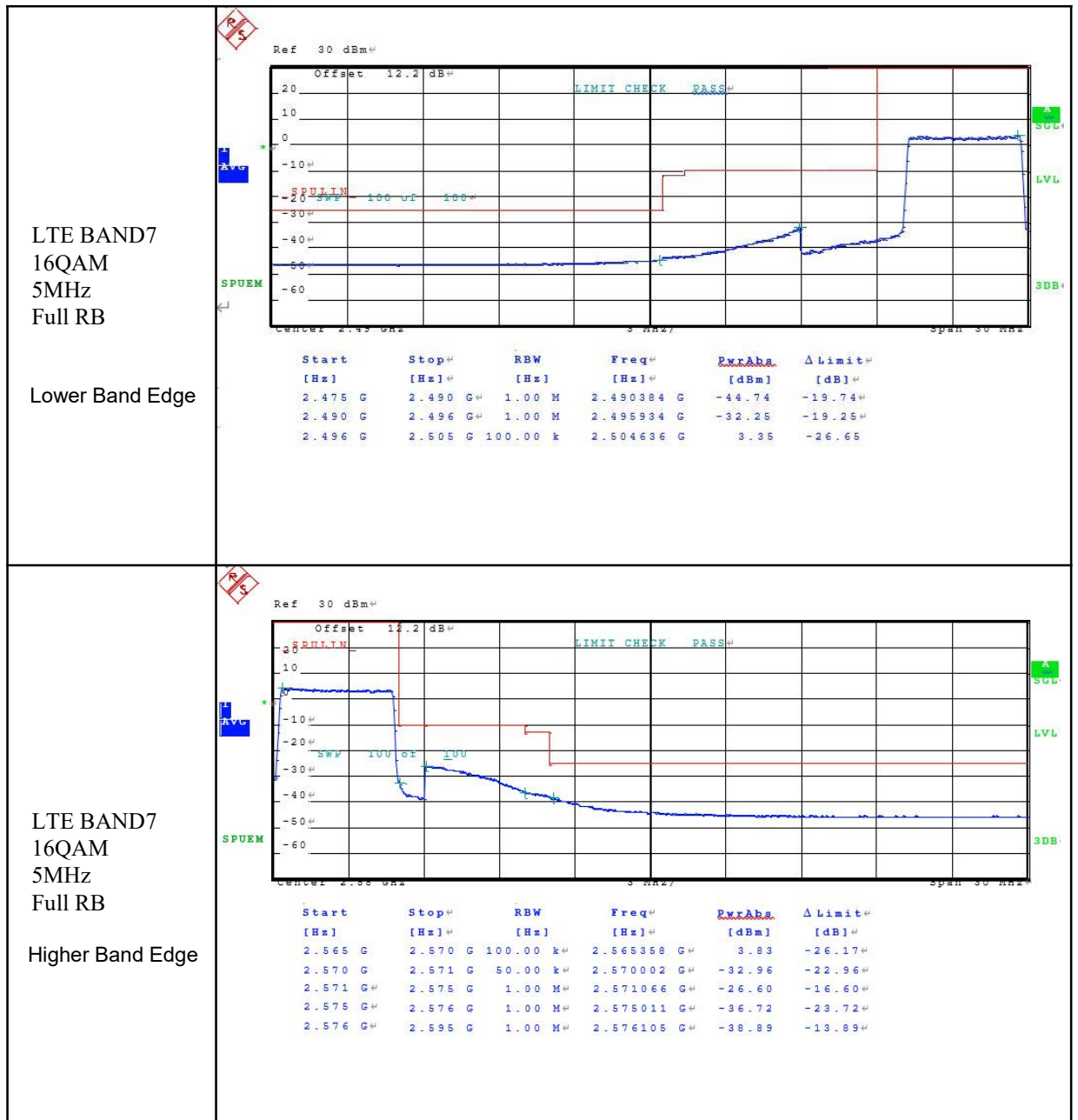


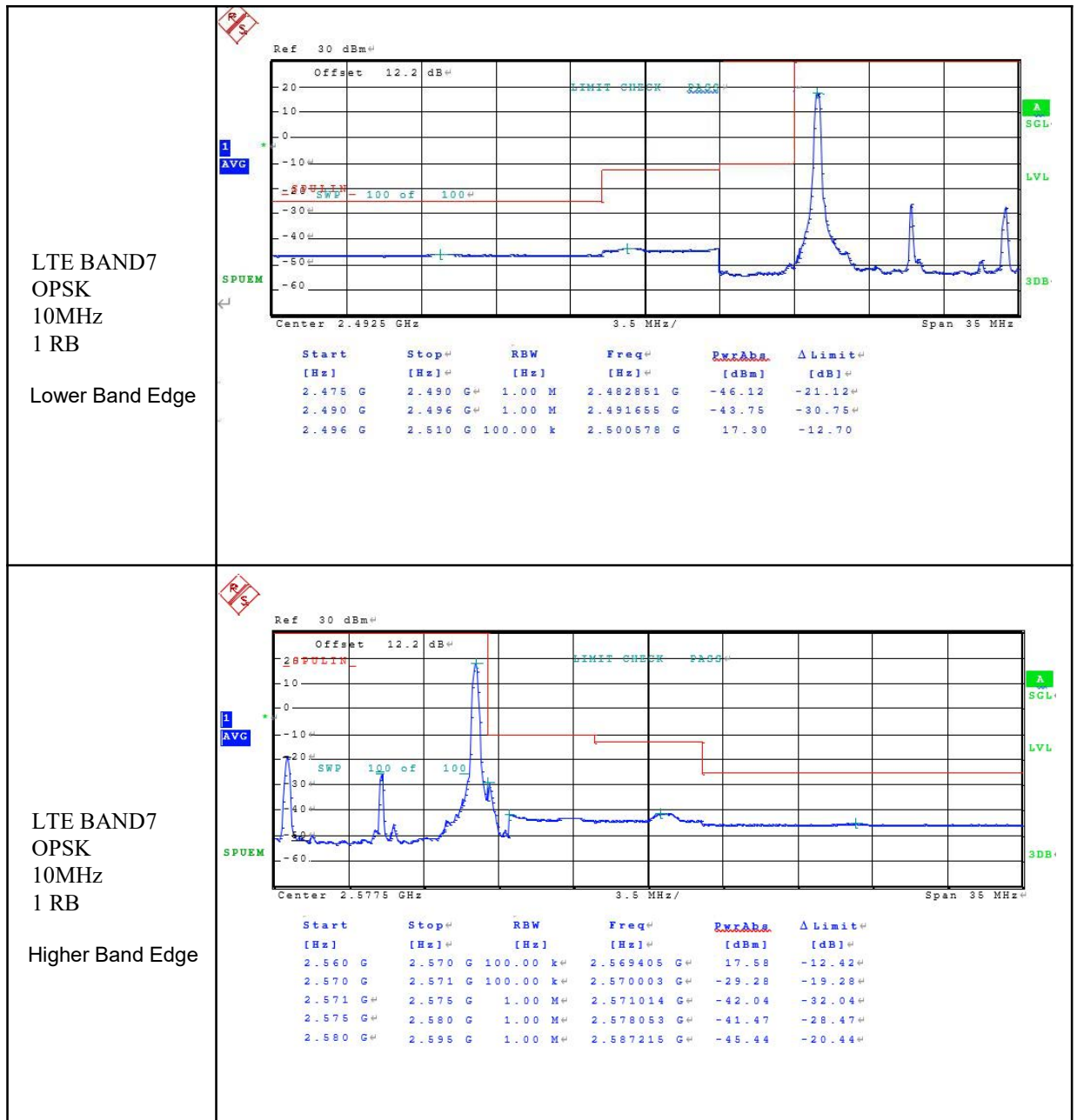


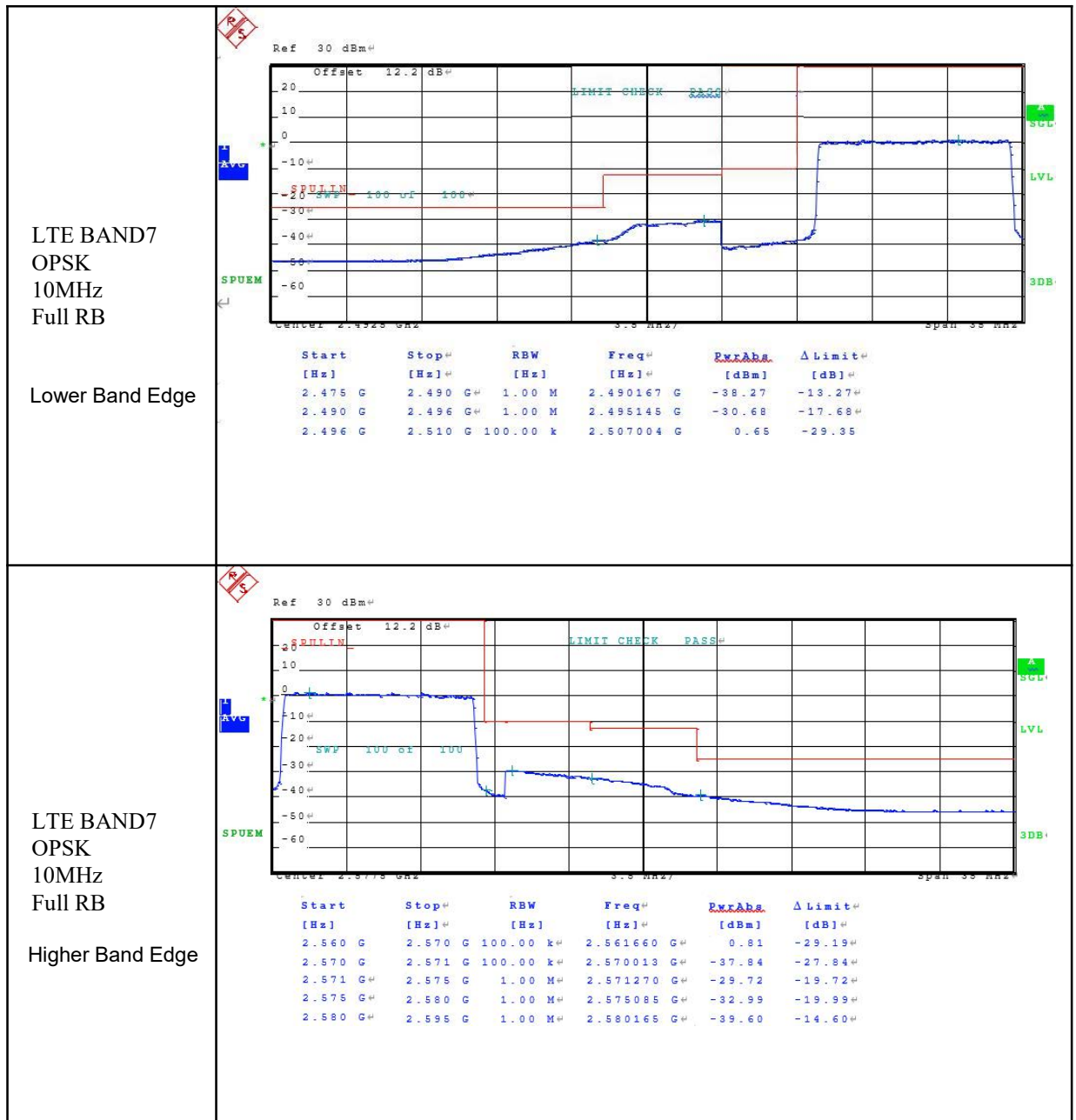


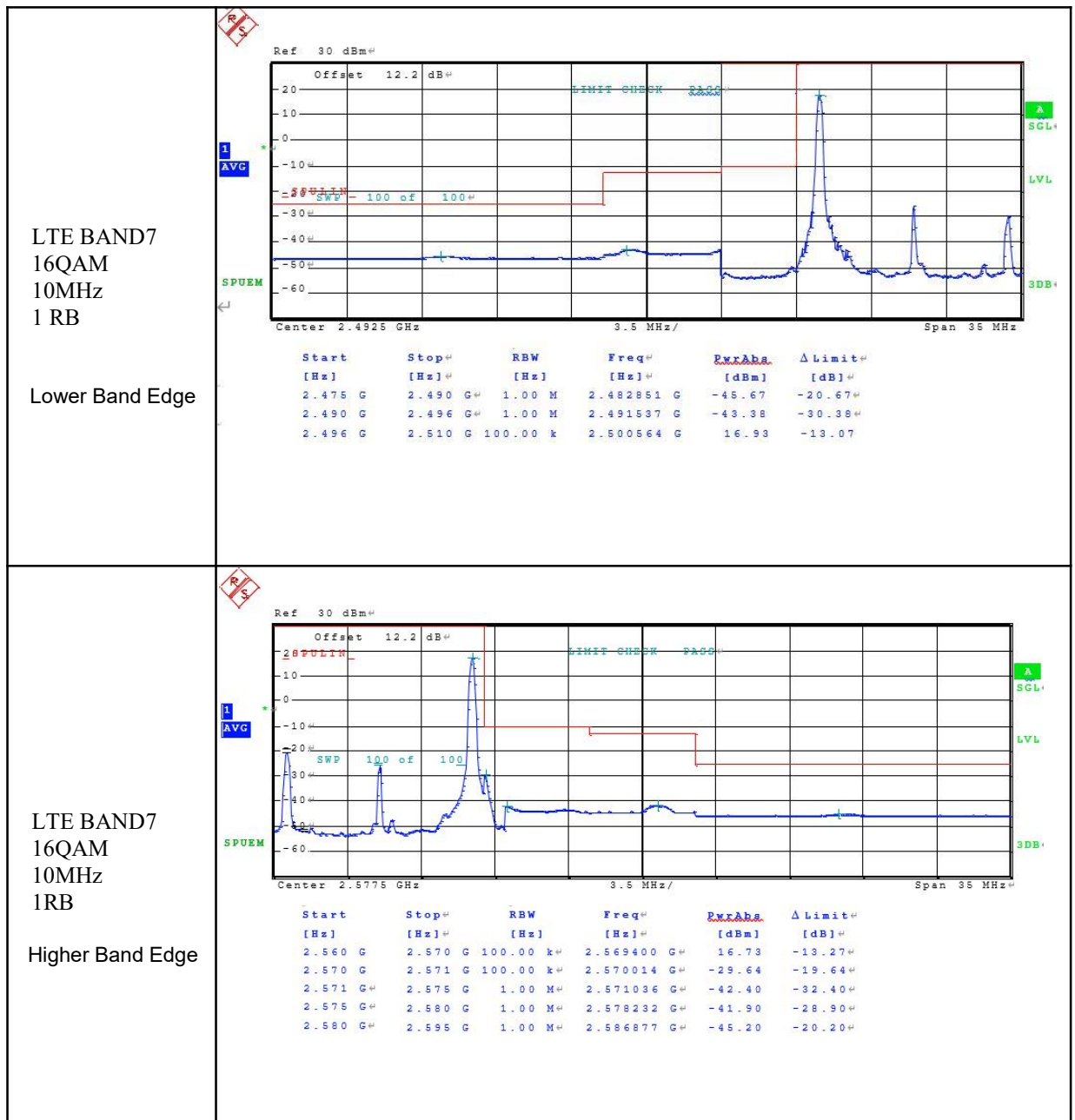


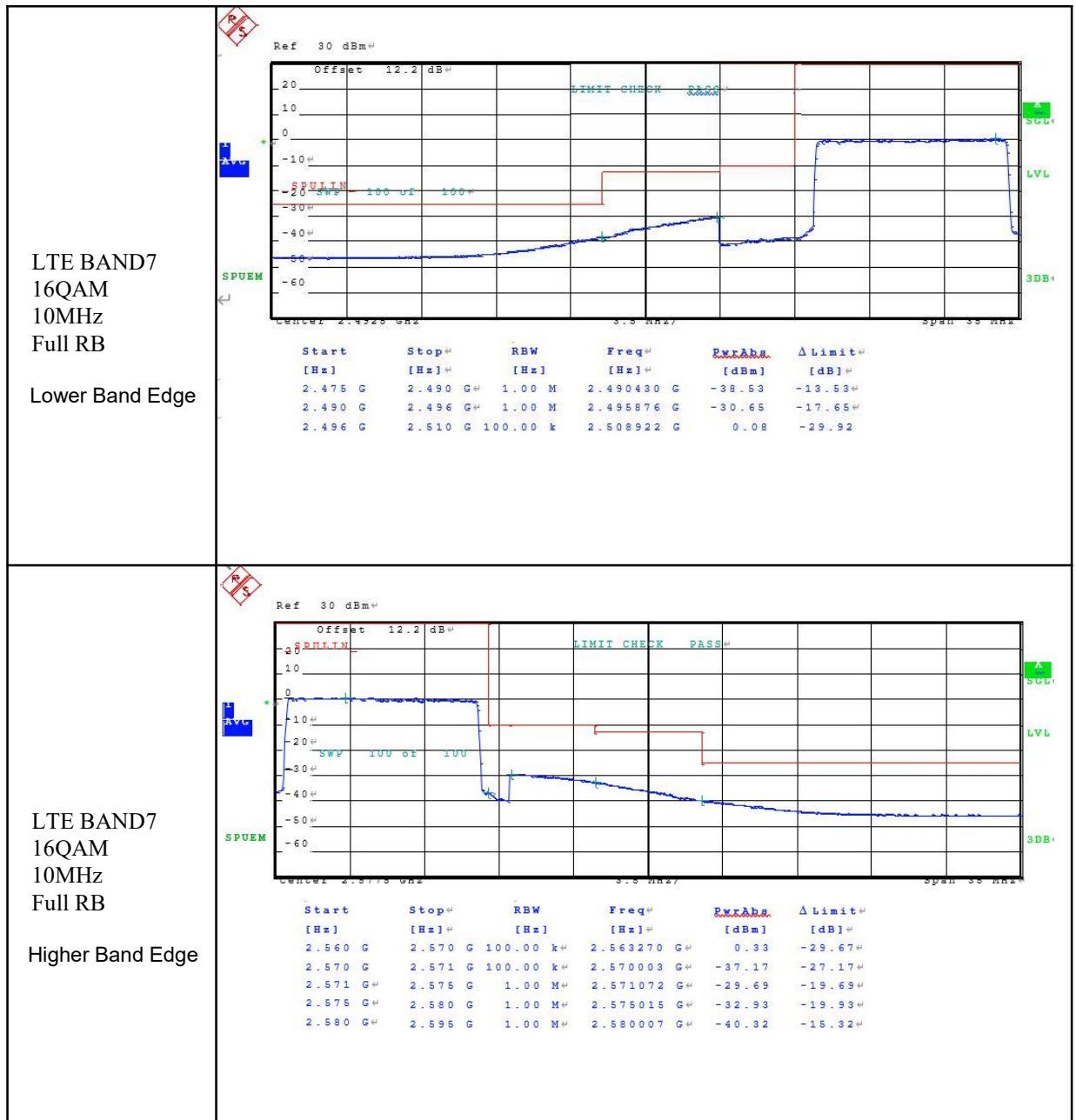








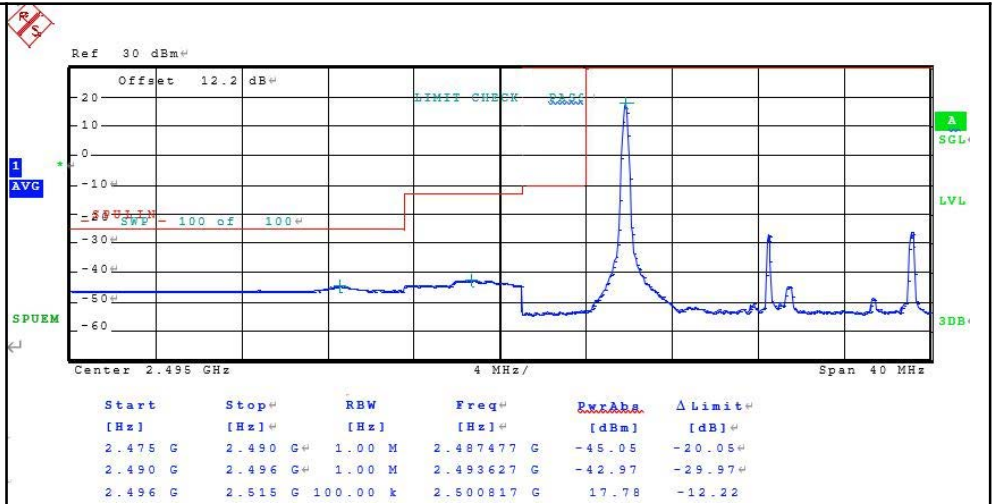






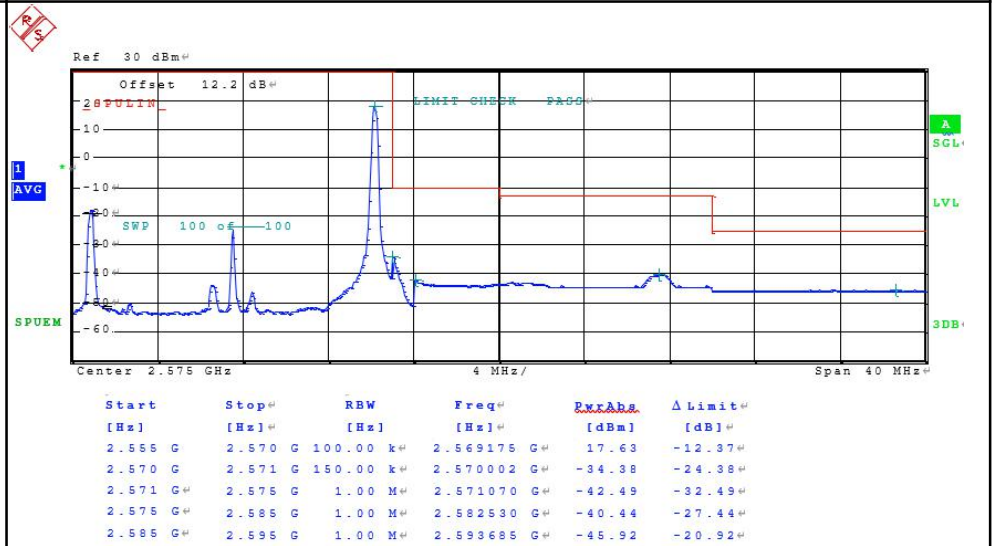
LTE BAND7
OPSK
15MHz
1 RB

Lower Band Edge



LTE BAND7
OPSK
15MHz
1 RB

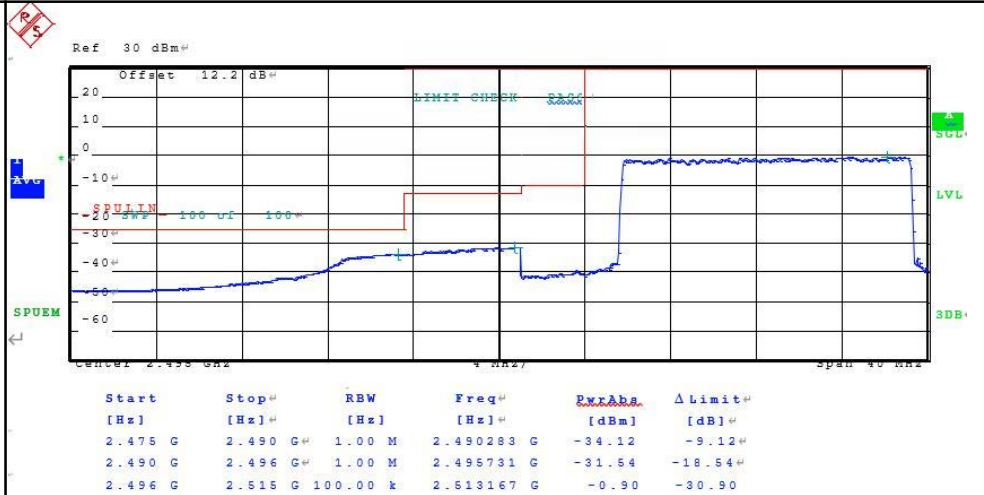
Higher Band Edge





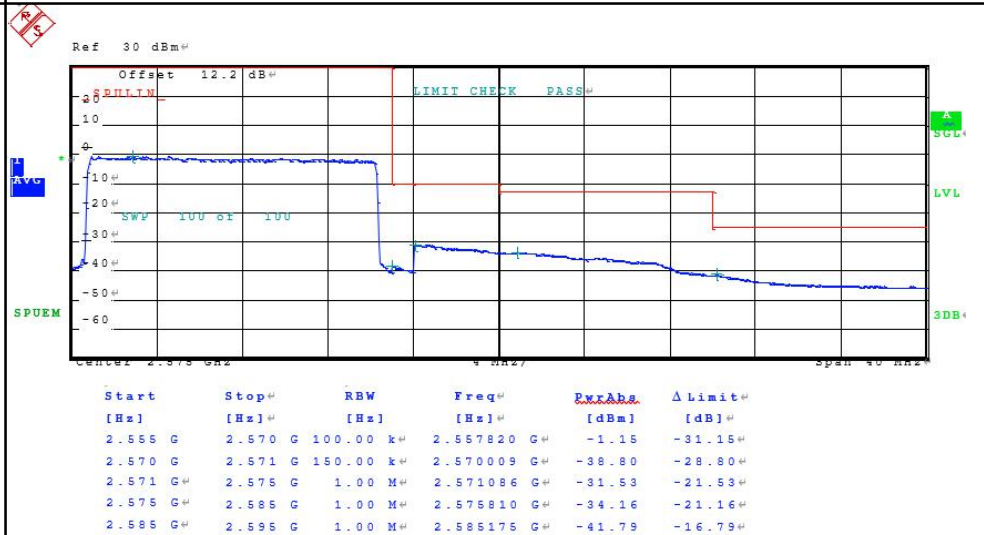
LTE BAND7
OPSK
15MHz
Full RB

Lower Band Edge



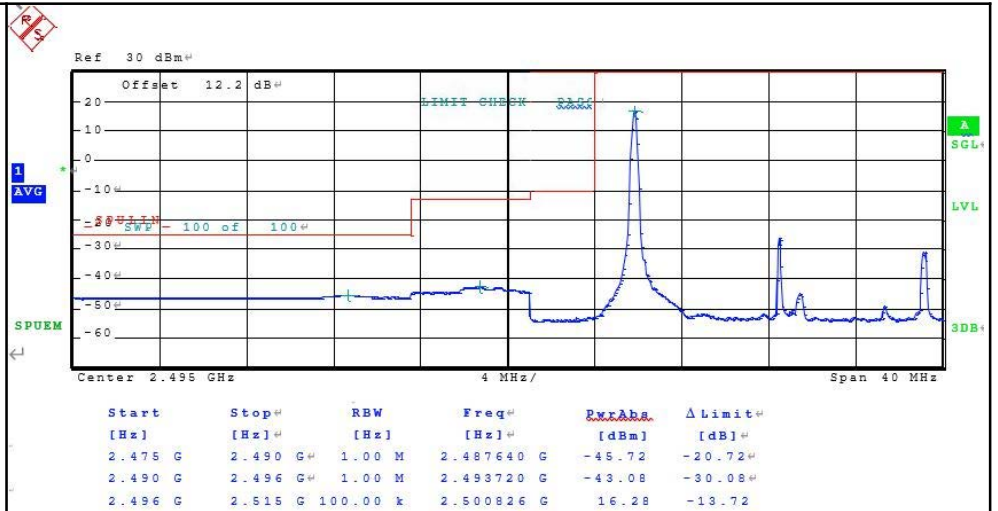
LTE BAND7
OPSK
15MHz
Full RB

Higher Band Edge



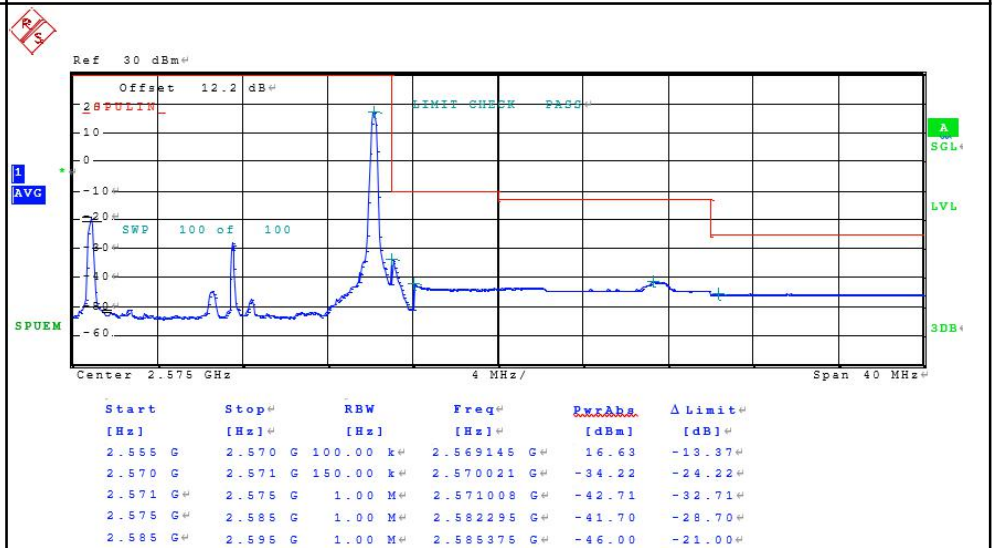
LTE BAND7
16QAM
15MHz
1 RB

Lower Band Edge



LTE BAND7
16QAM
15MHz
1 RB

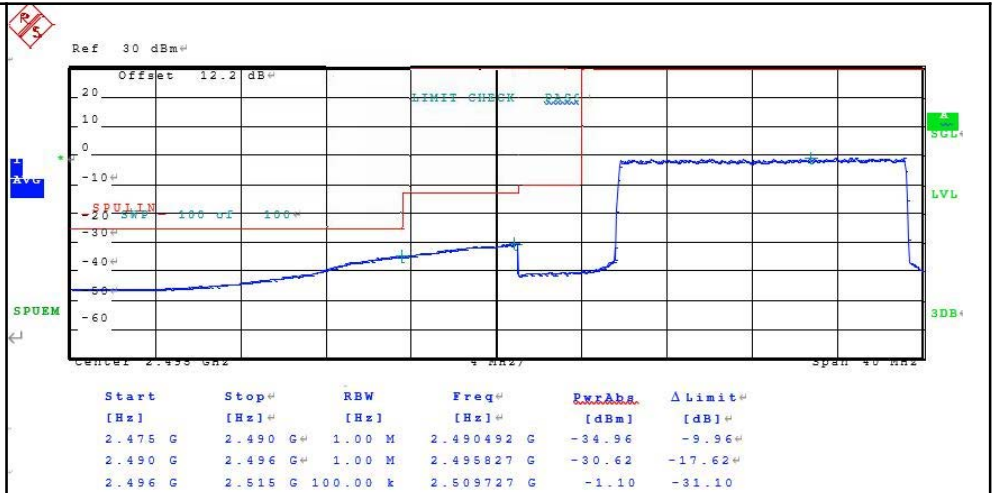
Higher Band Edge





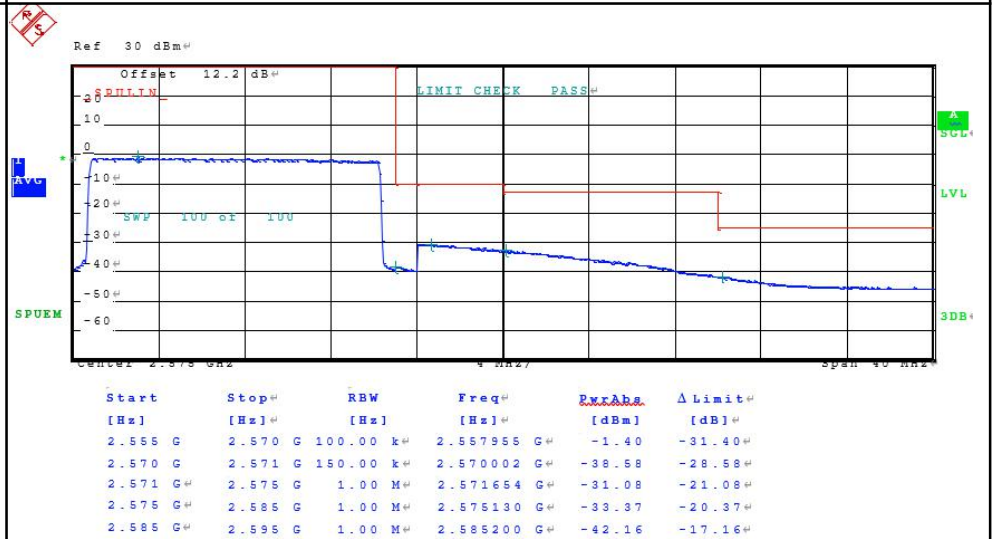
LTE BAND7
16QAM
15MHz
Full RB

Lower Band Edge



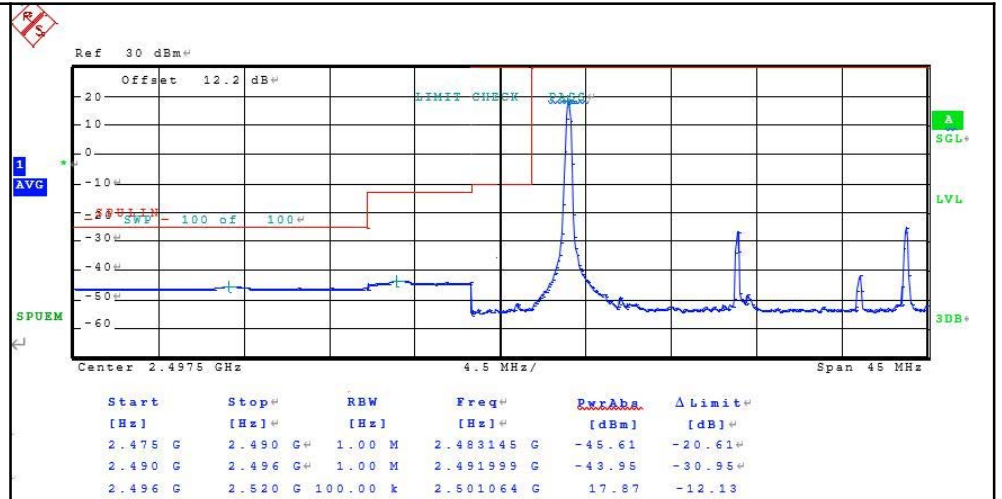
LTE BAND7
16QAM
15MHz
Full RB

Higher Band Edge



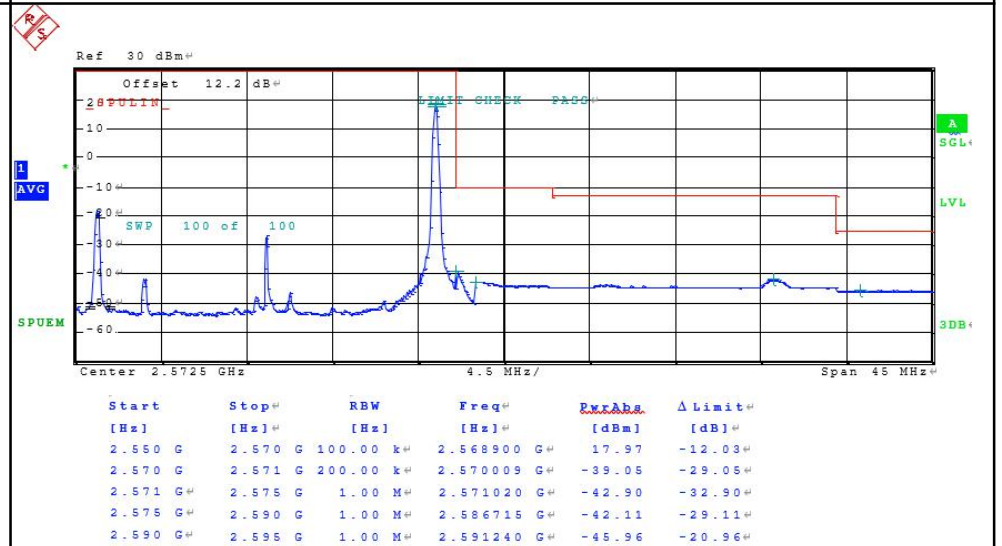
LTE BAND7
QPSK
20MHz
1 RB

Lower Band Edge



LTE BAND7
QPSK
20MHz
1 RB

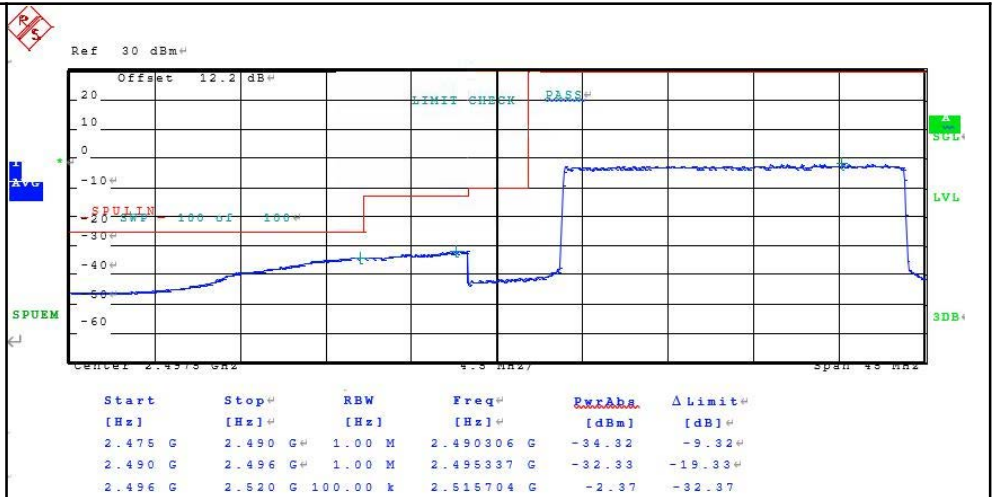
Higher Band Edge





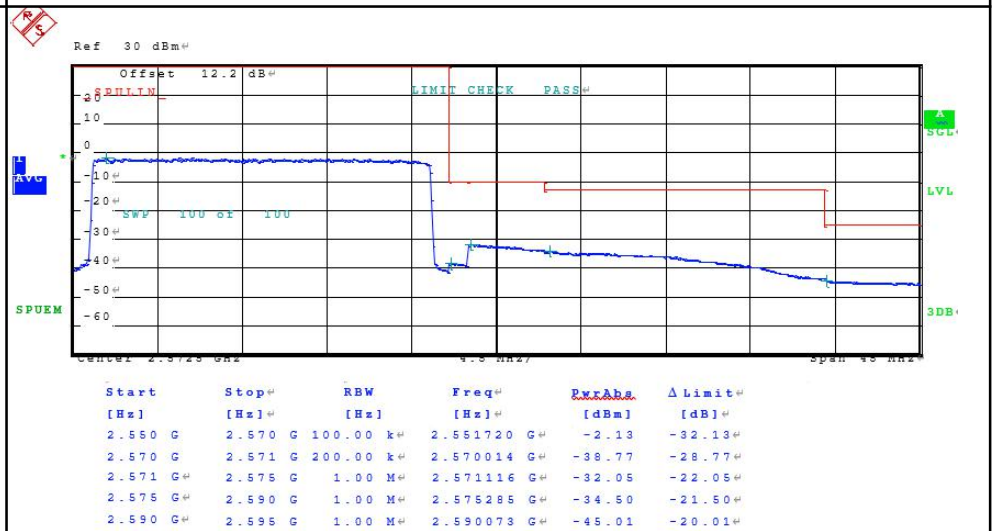
LTE BAND7
QPSK
20MHz
Full RB

Lower Band Edge



LTE BAND7
QPSK
20MHz
Full RB

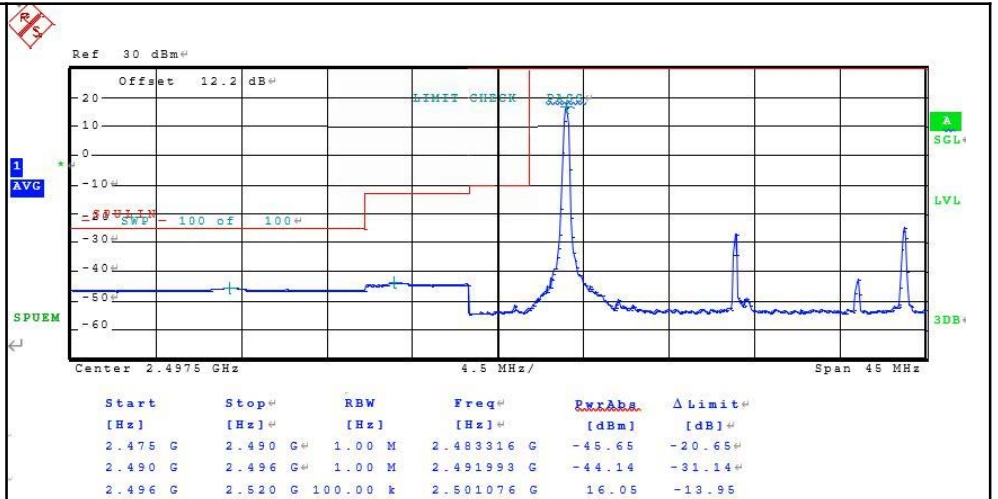
Higher Band Edge





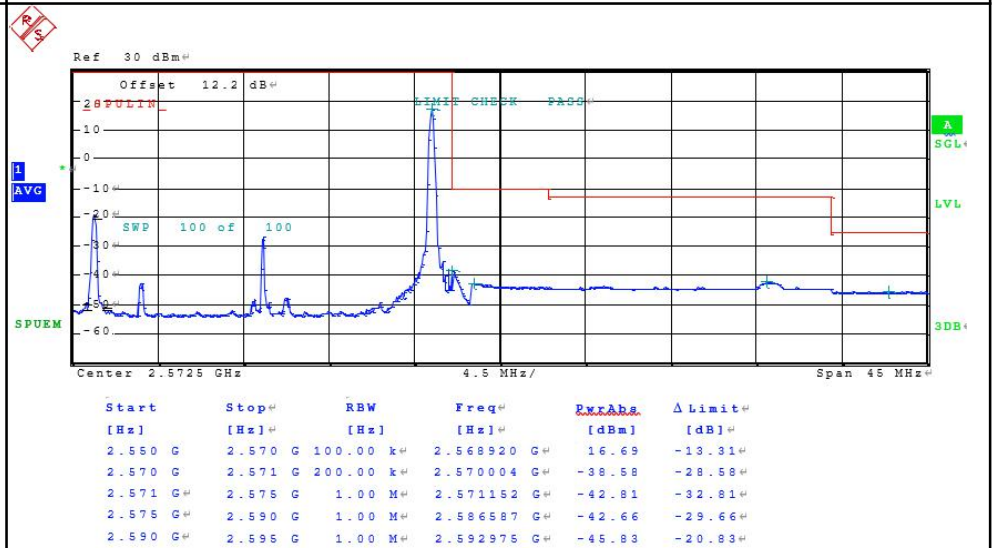
LTE BAND7
16QAM
20MHz
1 RB

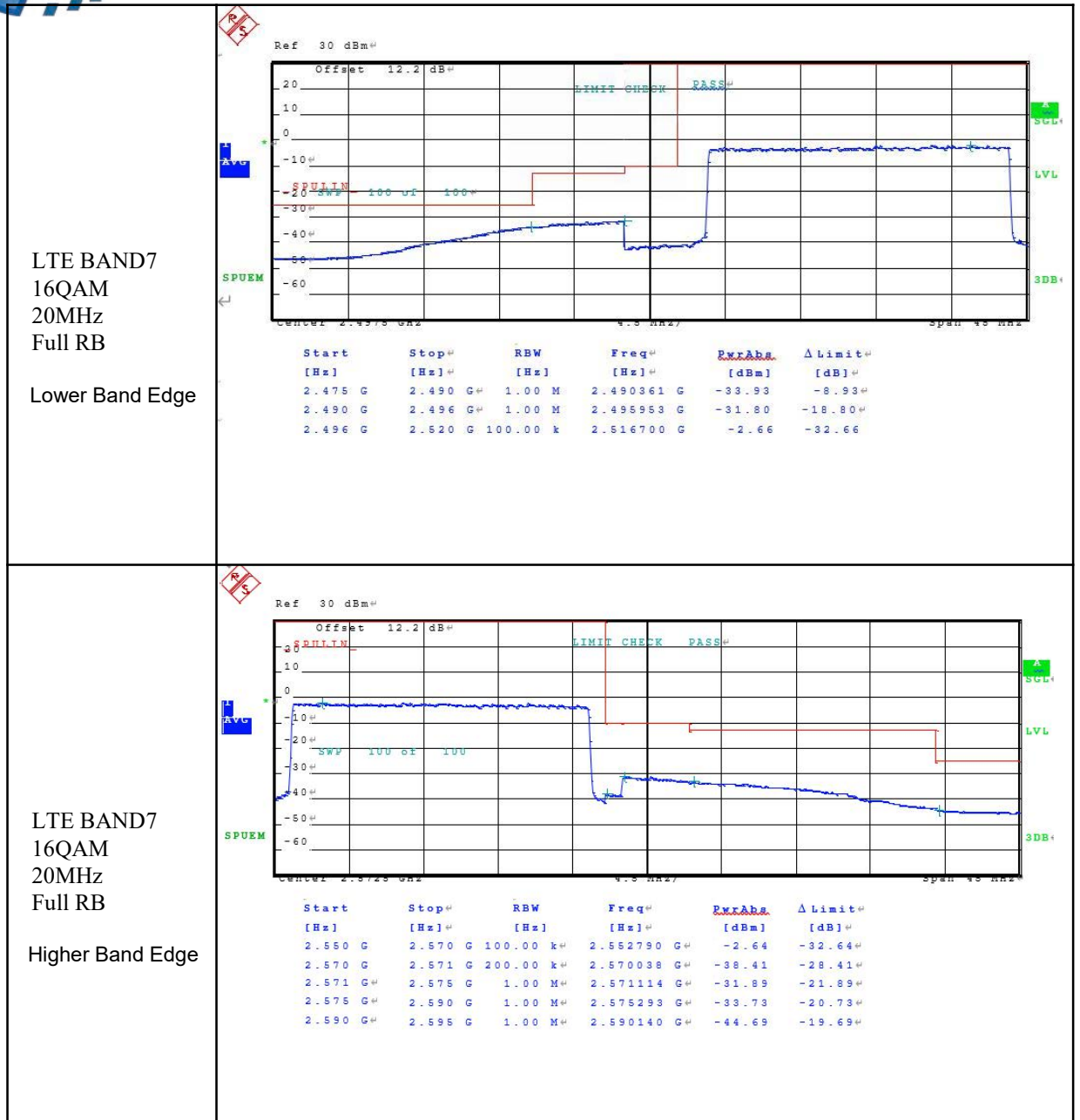
Lower Band Edge



LTE BAND7
16QAM
20MHz
1 RB

Higher Band Edge





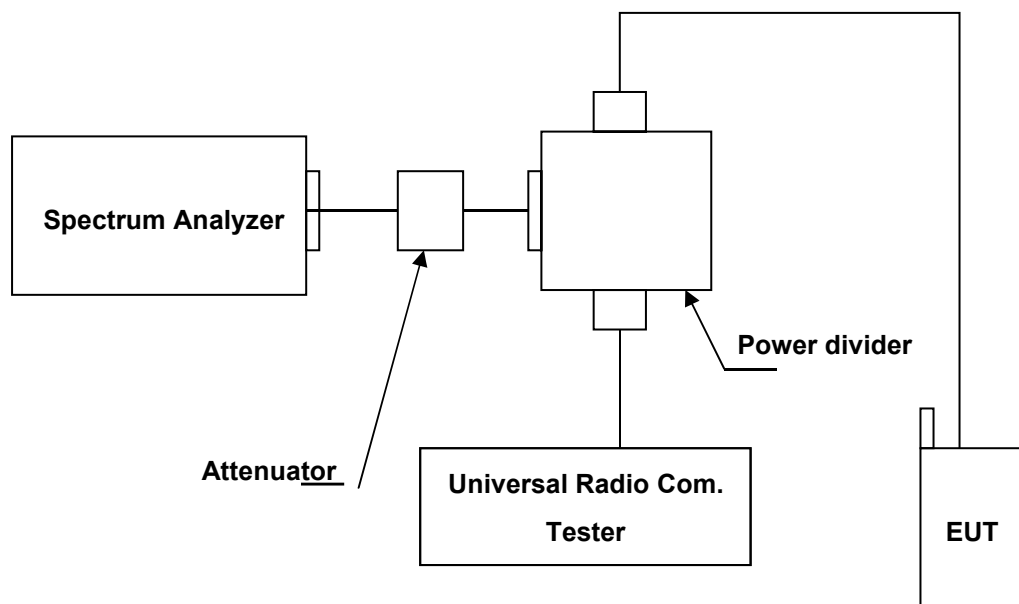
8 Conducted Spurious Emission Test

8.1. Limit

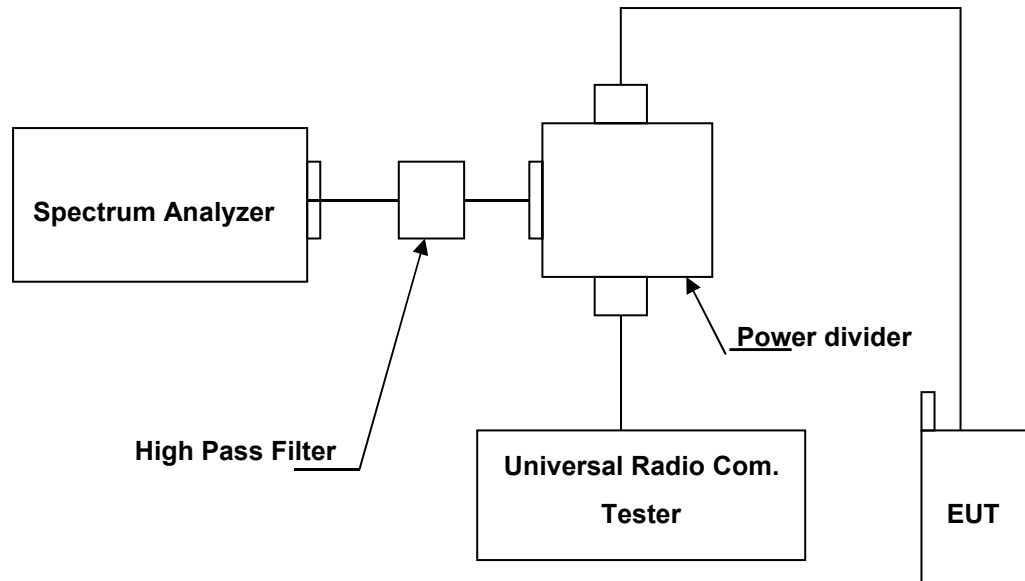
The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13dBm

8.2. Setup

Below 2.8GHz



Above 2.8GHz

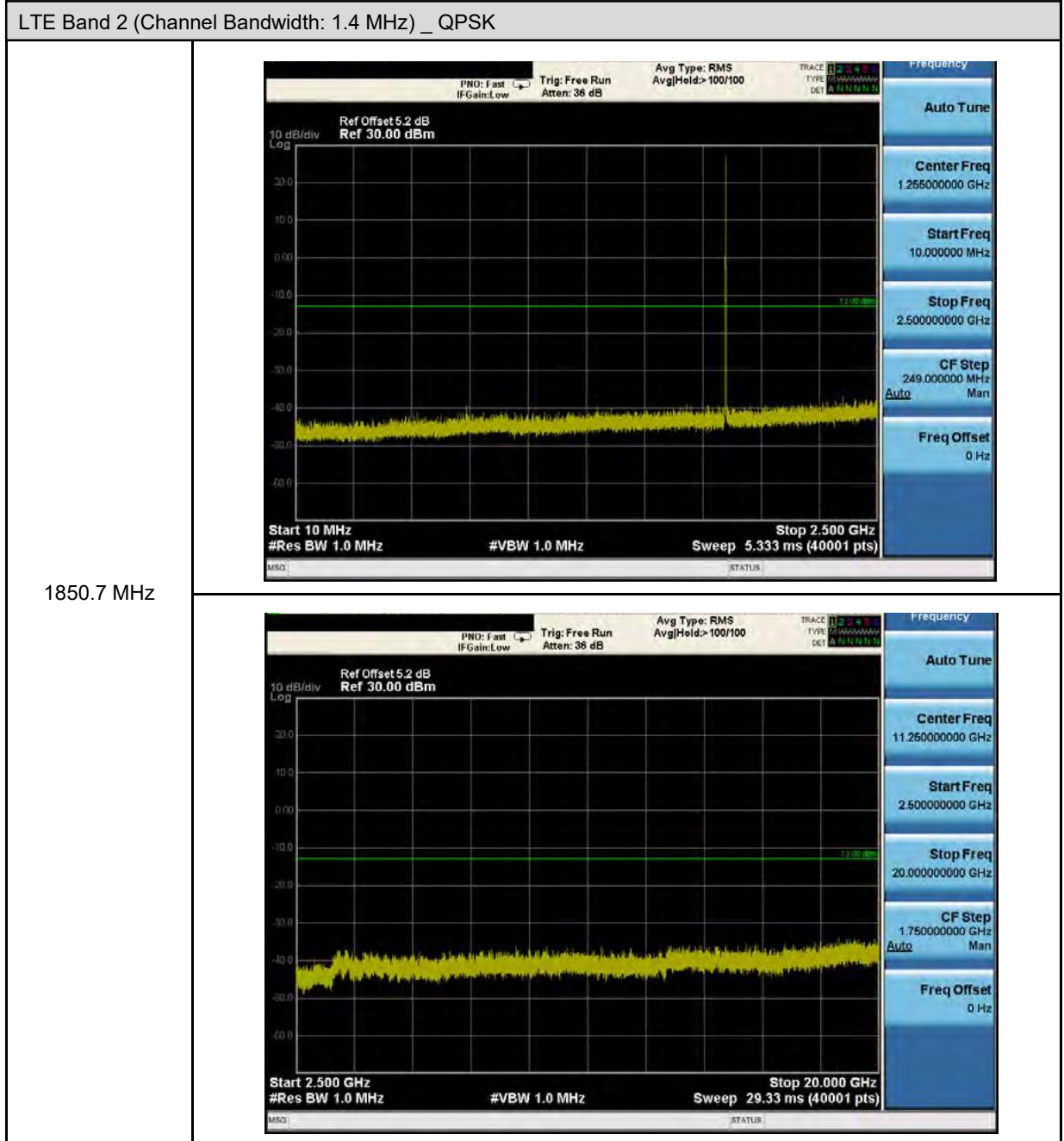


8.3. Test Procedure

- The EUT was set up for the maximum peak power with LTE / WCDMA link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range.).
- The conducted spurious emission used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- When the spectrum scanned from 30MHz to 3GHz, it shall be connected to the band reject filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=1MHz.
- When the spectrum scanned from 3GHz to 20GHz, it shall be connected to the high pass filter attenuated the carried frequency. The spectrum set RB=1MHz, VB=1MHz.



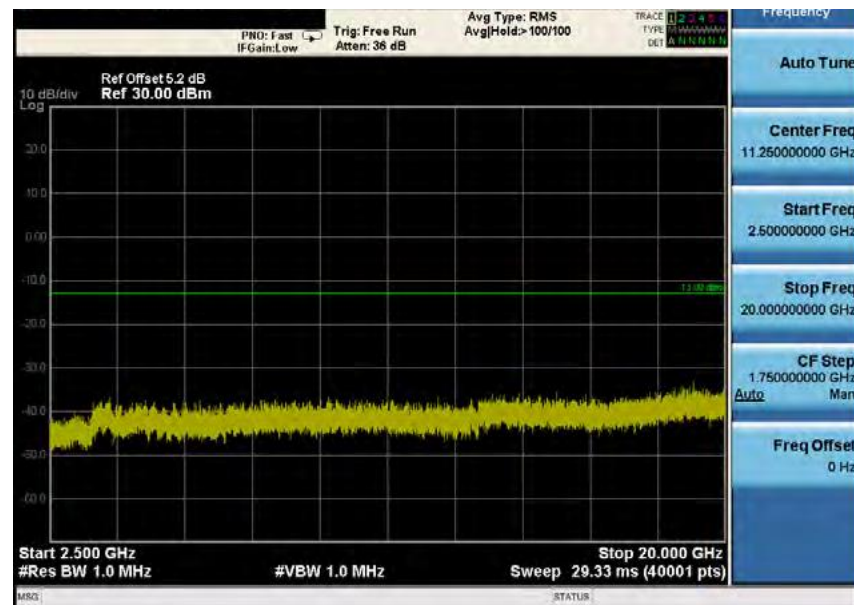
8.4. Test Graphs





LTE Band 2 (Channel Bandwidth: 1.4 MHz) _ QPSK

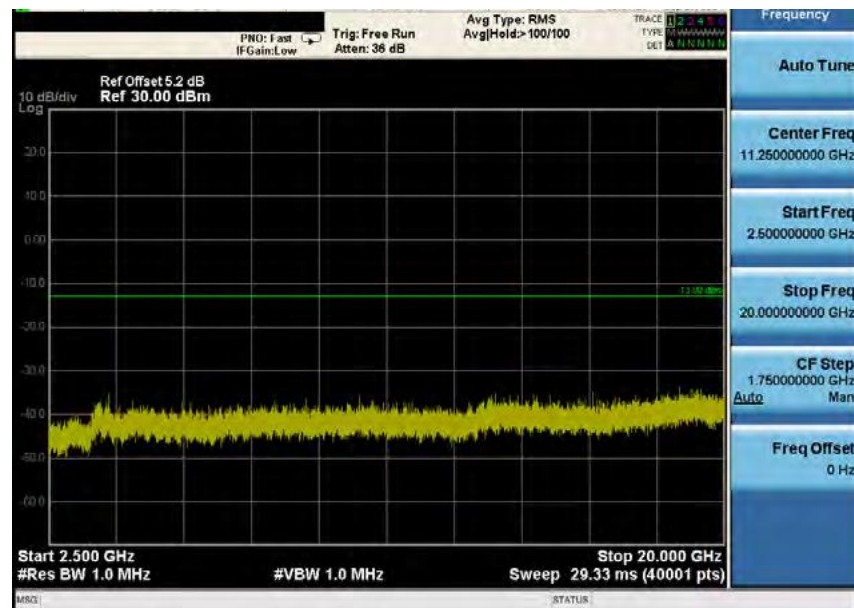
1880.0 MHz

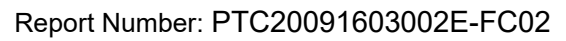


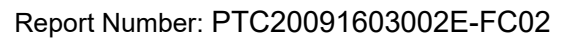


LTE Band 2 (Channel Bandwidth: 1.4 MHz) _ QPSK

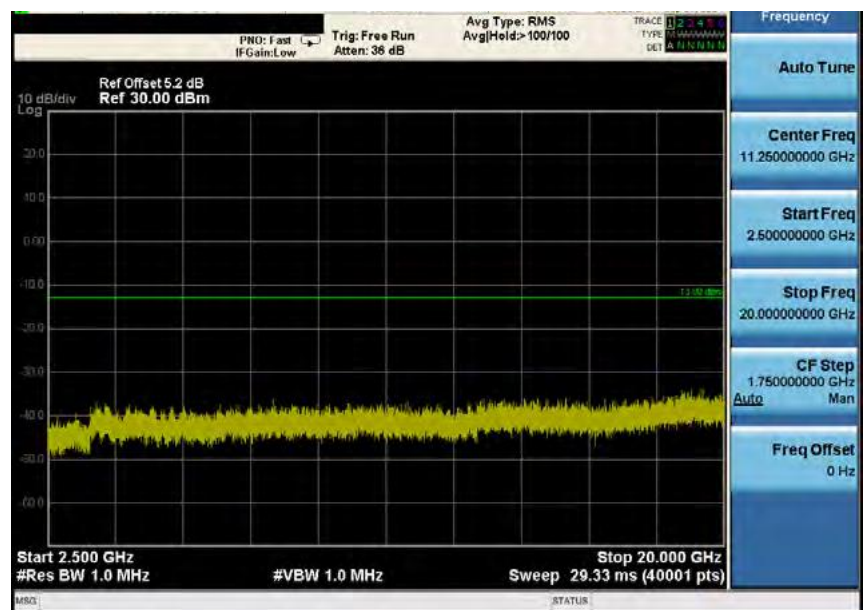
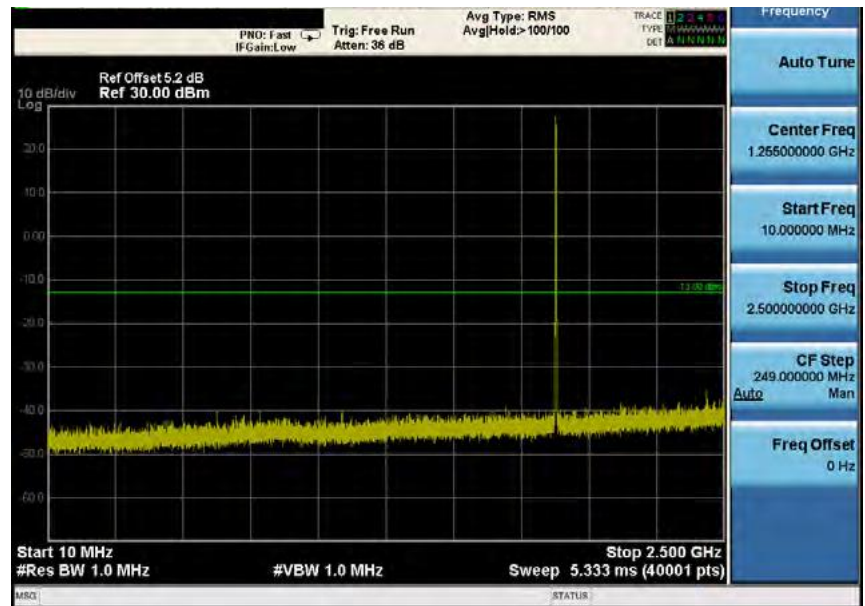
1909.3 MHz







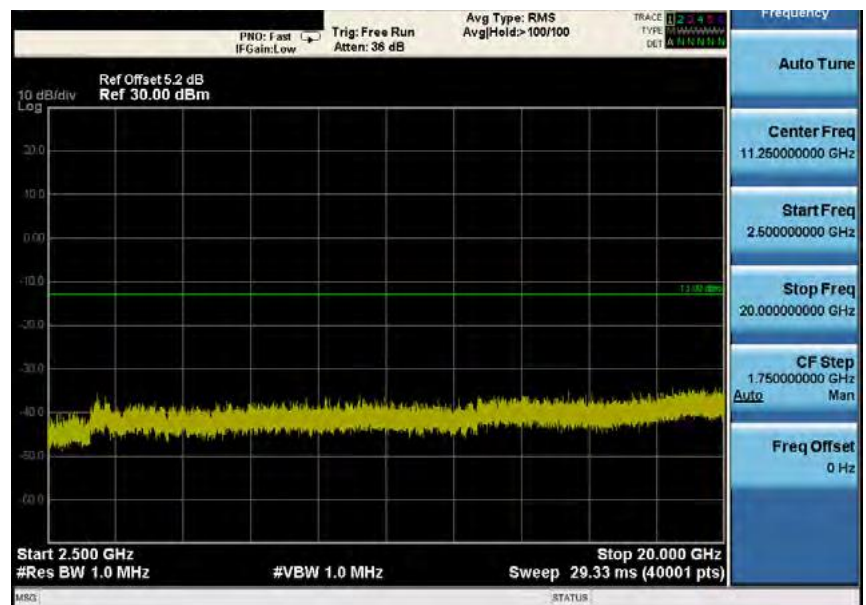
1880.0 MHz





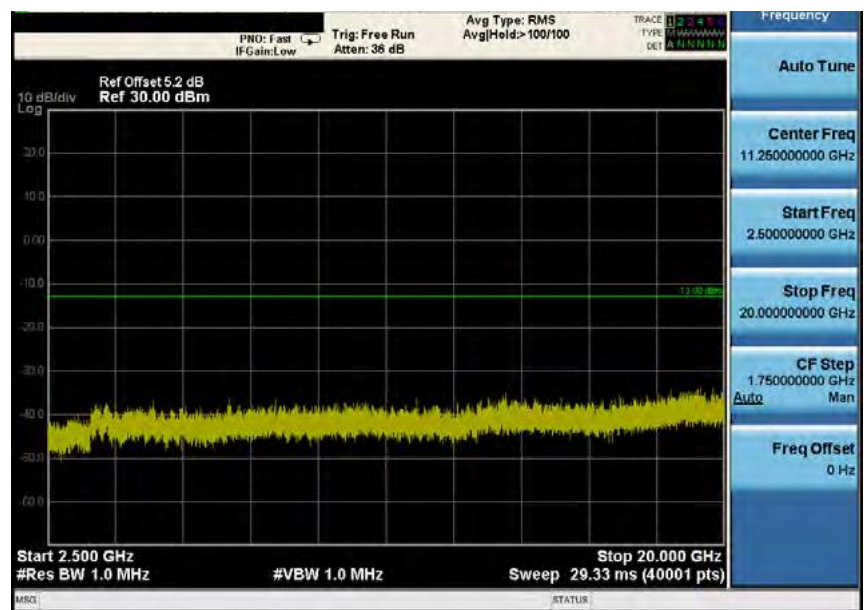
LTE Band 2 (Channel Bandwidth: 3 MHz) _ QPSK

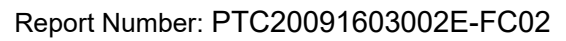
1908.5 MHz



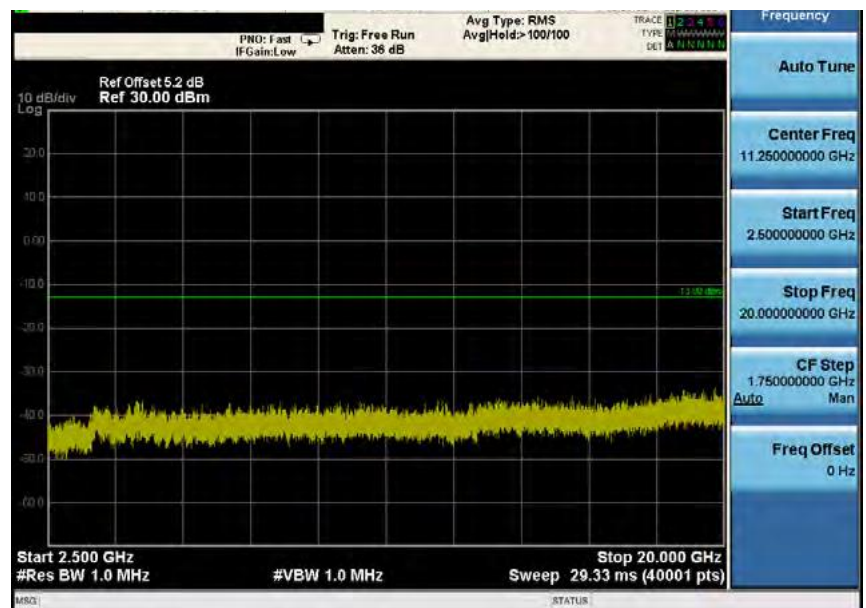
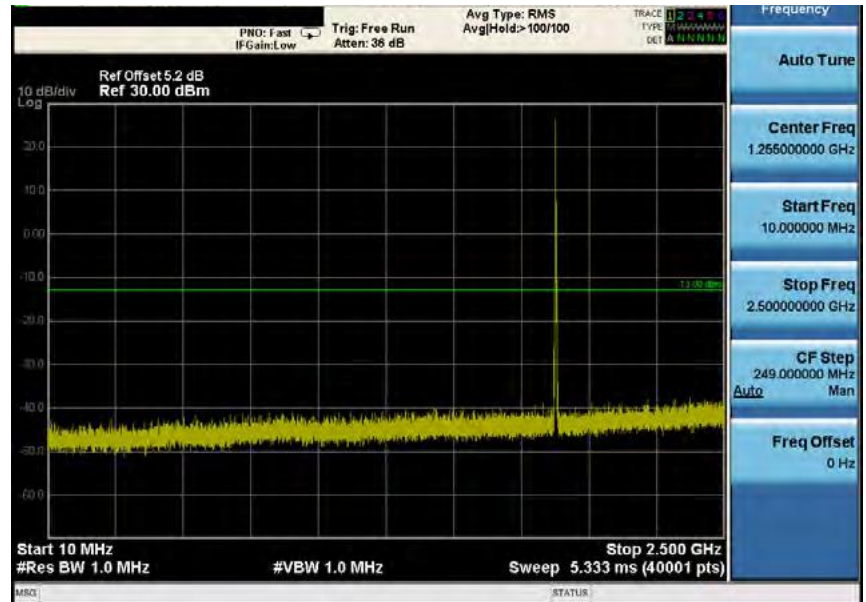
LTE Band 2 (Channel Bandwidth: 5 MHz) _ QPSK

1852.5 MHz





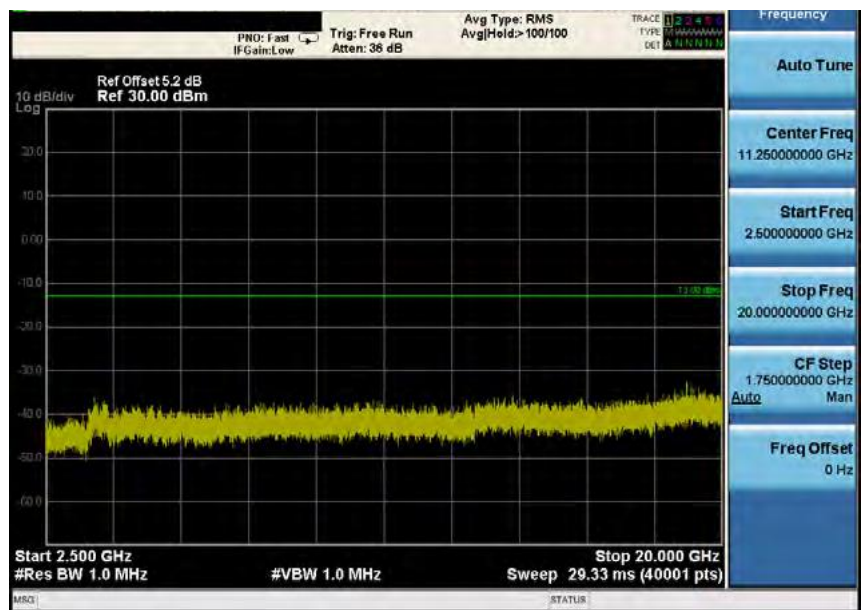
1880.0 MHz





LTE Band 2 (Channel Bandwidth: 5 MHz) _ QPSK

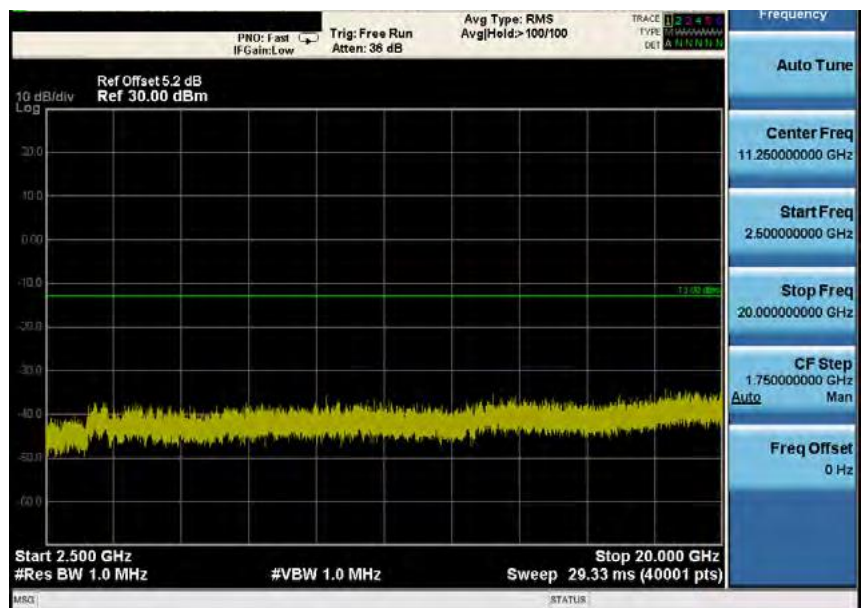
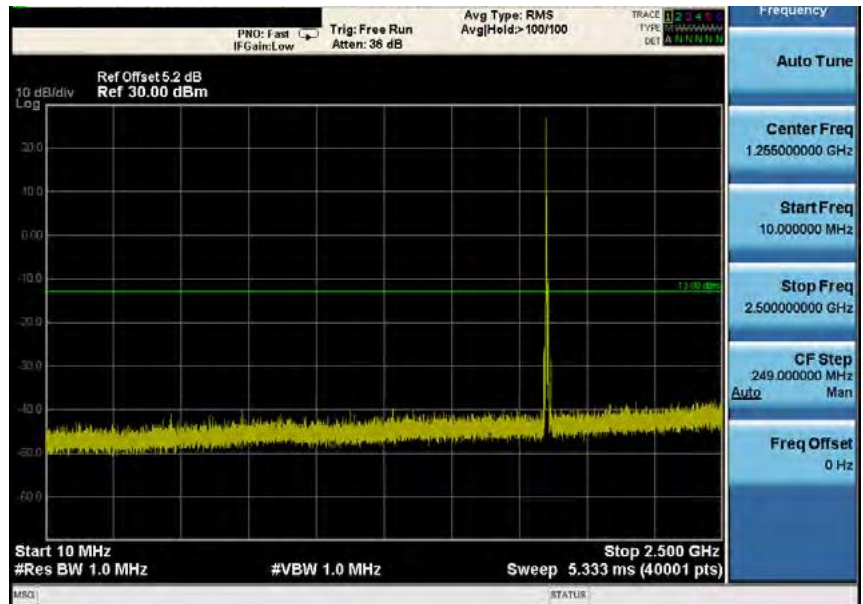
1907.5 MHz





LTE Band 2 (Channel Bandwidth: 10 MHz) _ QPSK

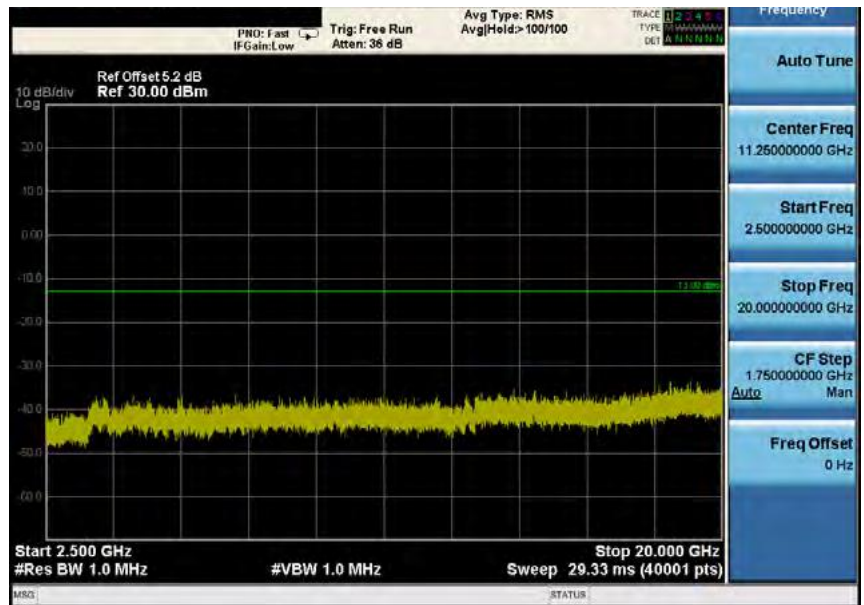
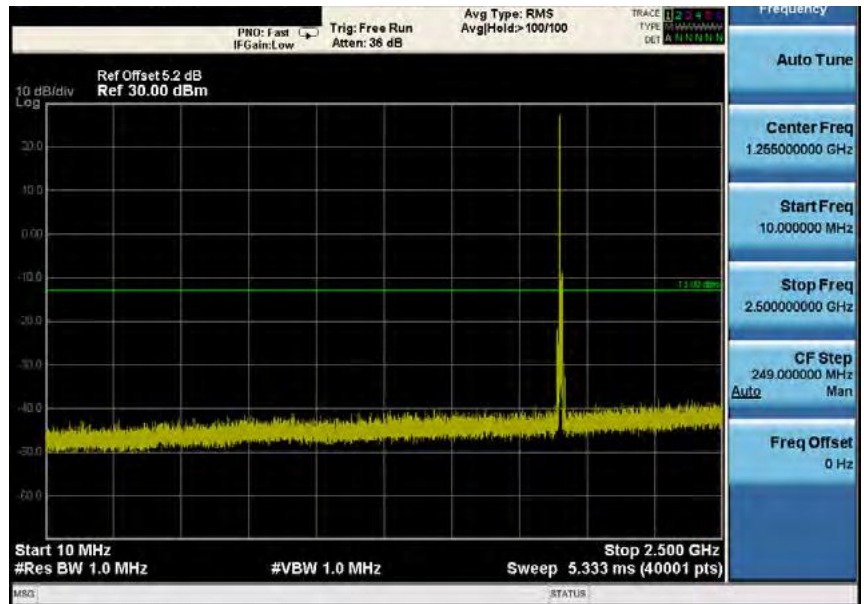
1855.0 MHz





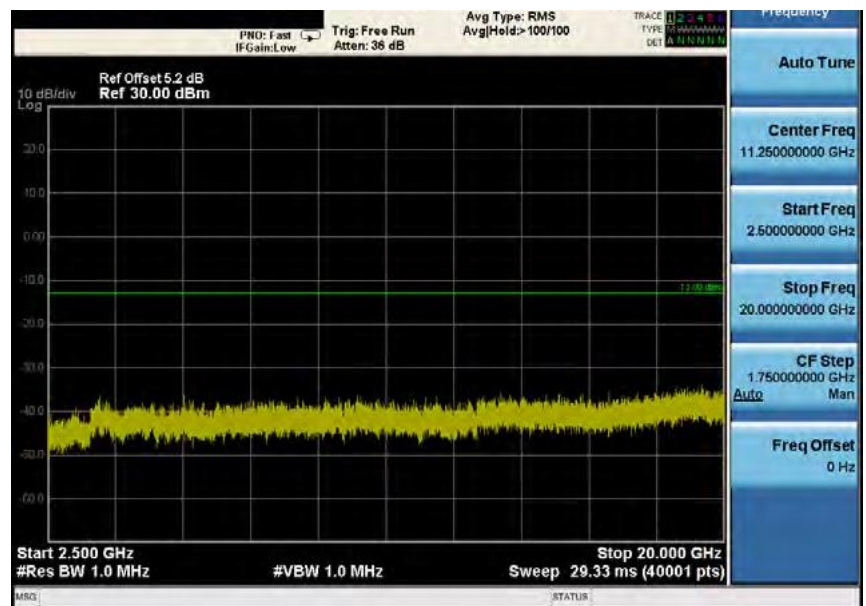
LTE Band 2 (Channel Bandwidth: 10 MHz) _ QPSK

1905.0 MHz



LTE Band 2 (Channel Bandwidth: 15 MHz) _ QPSK

1857.5 MHz





LTE Band 2 (Channel Bandwidth: 15 MHz) _ QPSK

1880.0 MHz

