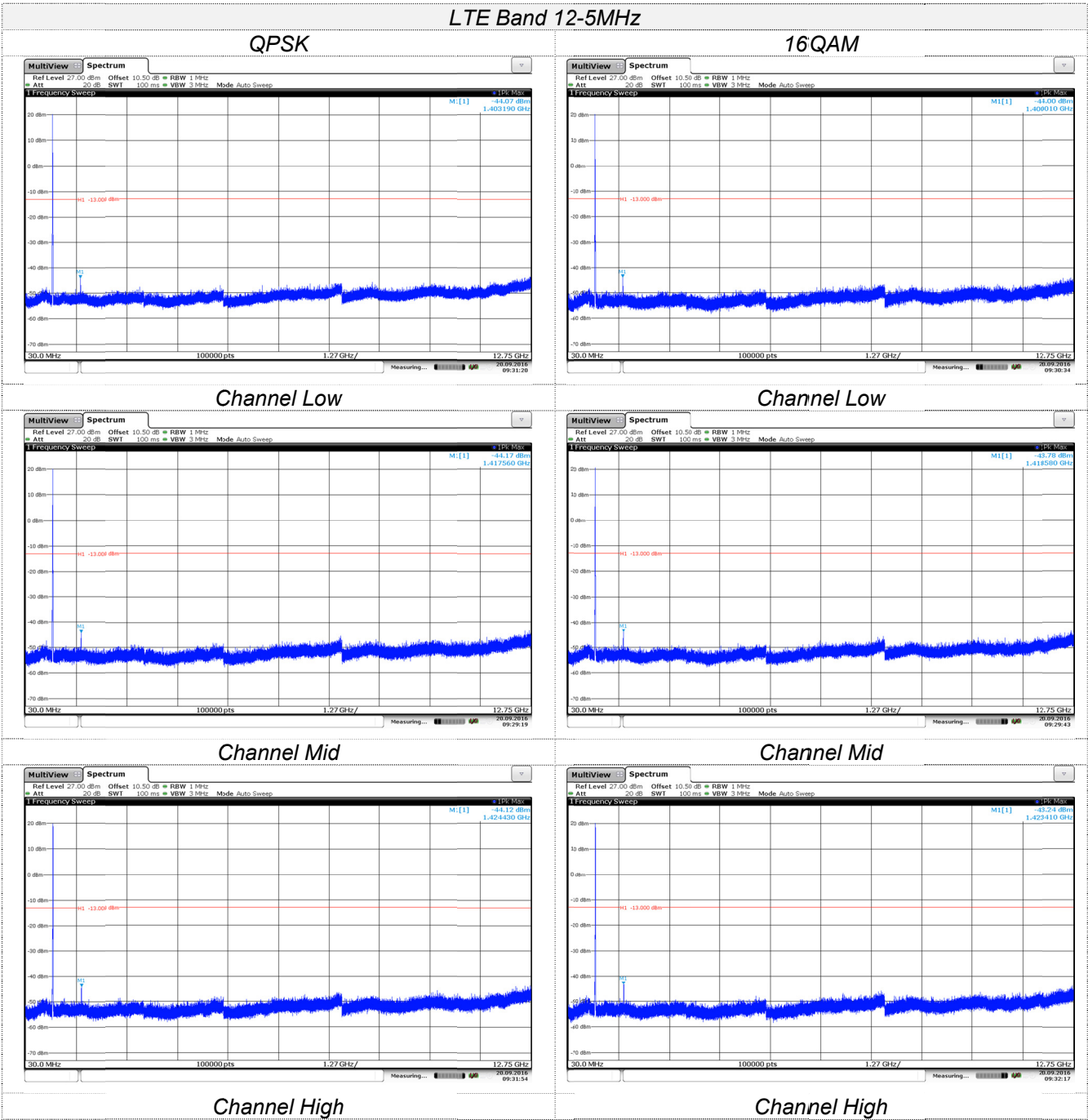




Channel Low

MultView

Spectrum

Ref Level 27.00 dBm Offset 10.50 dB RBW 1 MHz

Att 20 dB SWI 100 ms VBW 3 MHz Mode Auto Sweep

Frequency Sweep

M[1] -44.17 dBm 1.417560 GHz

M[1] -13.00 dBm

30.0 MHz 100000 pts 1.27 GHz/ 12.75 GHz

Measuring... 09:29:19

Channel Low

MultView

Spectrum

Ref Level 27.00 dBm Offset 10.50 dB RBW 1 MHz

Att 20 dB SWI 100 ms VBW 3 MHz Mode Auto Sweep

Frequency Sweep

M[1] -45.76 dBm 1.418590 GHz

M[1] -13.00 dBm

30.0 MHz 100000 pts 1.27 GHz/ 12.75 GHz

Measuring... 09:29:43

Channel Mid

MultView

Spectrum

Ref Level 27.00 dBm Offset 10.50 dB RBW 1 MHz

Att 20 dB SWI 100 ms VBW 3 MHz Mode Auto Sweep

Frequency Sweep

M[1] -44.12 dBm 1.424430 GHz

M[1] -13.00 dBm

30.0 MHz 100000 pts 1.27 GHz/ 12.75 GHz

Measuring... 09:31:54

Channel Mid

MultView

Spectrum

Ref Level 27.00 dBm Offset 10.50 dB RBW 1 MHz

Att 20 dB SWI 100 ms VBW 3 MHz Mode Auto Sweep

Frequency Sweep

M[1] -45.24 dBm 1.429410 GHz

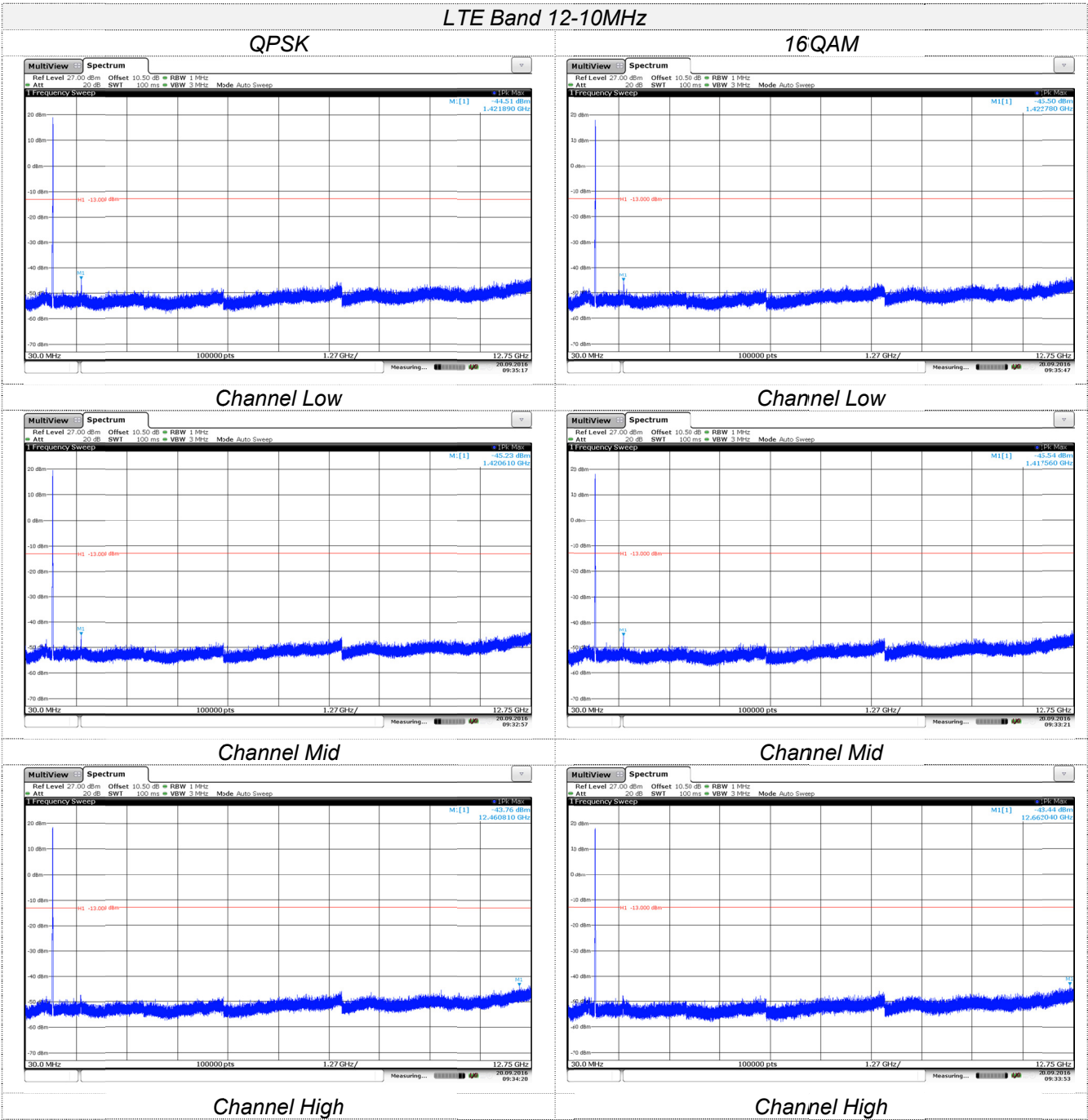
M[1] -13.00 dBm

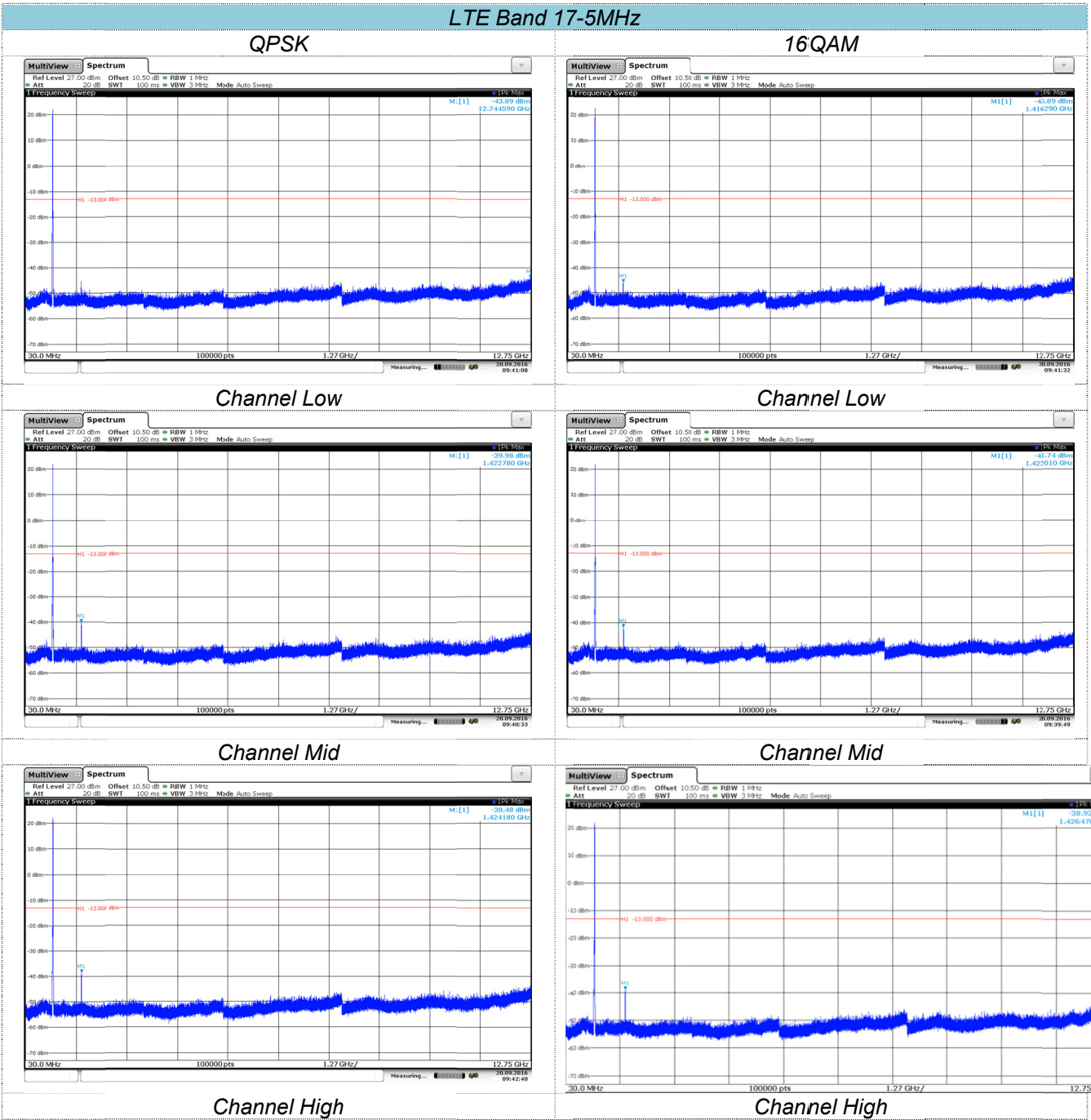
30.0 MHz 100000 pts 1.27 GHz/ 12.75 GHz

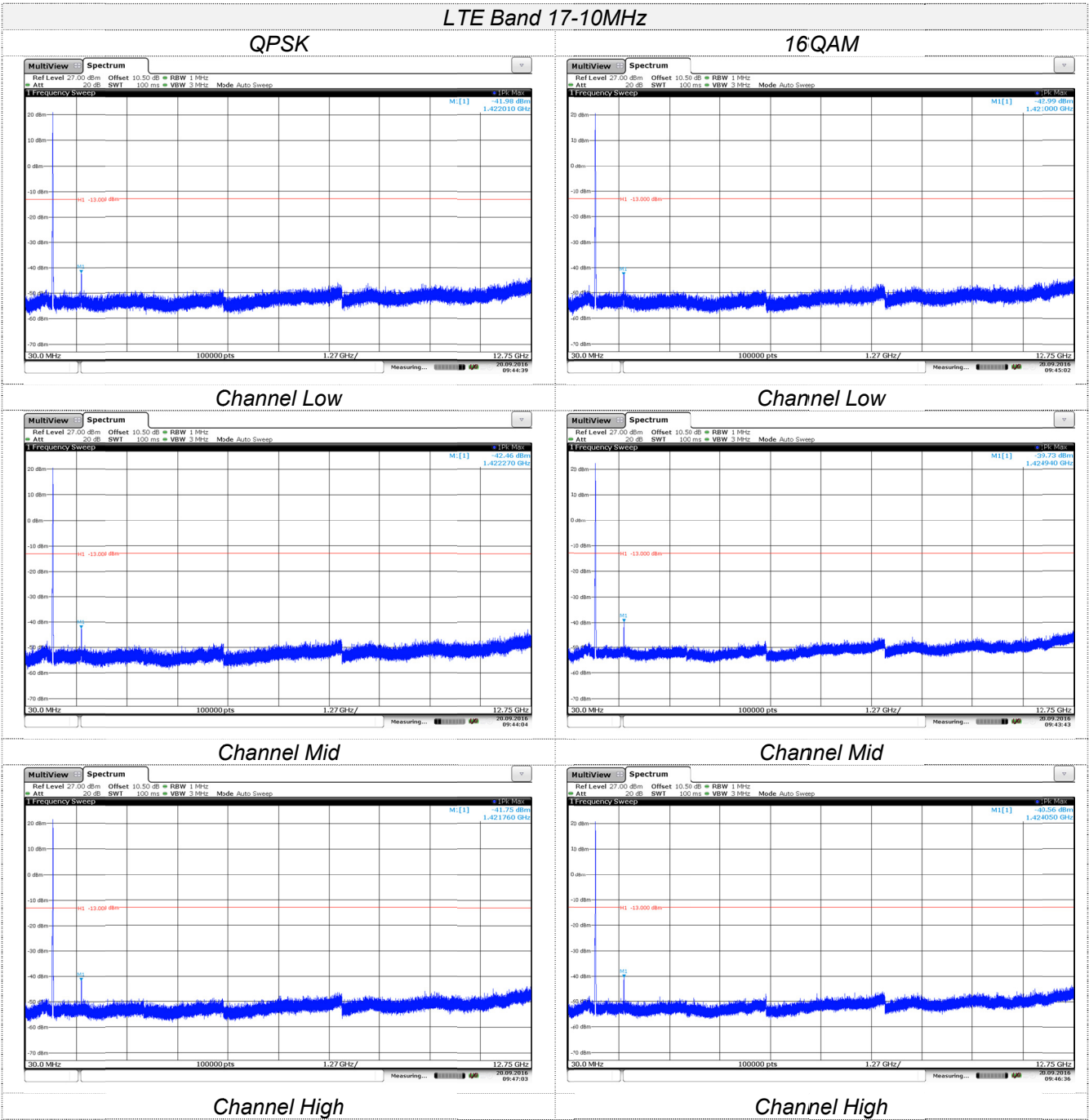
Measuring... 09:32:17

Channel High

Channel High







Channel Low

MultViewSpectrum

Ref Level 27.00 dBm Offset 10.50 dB RBW 1 MHz

Att 20 dB SWI 100 ms VBW 3 MHz Mode Auto Sweep

Frequency Sweep

M[1] -42.46 dBm 1.422270 GHz

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

-70 dBm

30.0 MHz

100000 pts

1.27 GHz/

12.75 GHz

Measuring...

09:44:04

Channel Mid

Channel Mid

MultViewSpectrum

Ref Level 27.00 dBm Offset 10.50 dB RBW 1 MHz

Att 20 dB SWI 100 ms VBW 3 MHz Mode Auto Sweep

Frequency Sweep

M[1] -41.25 dBm 1.421760 GHz

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

-70 dBm

30.0 MHz

100000 pts

1.27 GHz/

12.75 GHz

Measuring...

09:47:03

Channel High

Channel High

MultViewSpectrum

Ref Level 27.00 dBm Offset 10.50 dB RBW 1 MHz

Att 20 dB SWI 100 ms VBW 3 MHz Mode Auto Sweep

Frequency Sweep

M[1] -43.26 dBm 1.424050 GHz

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

-70 dBm

30.0 MHz

100000 pts

1.27 GHz/

12.75 GHz

Measuring...

09:46:36

Channel High

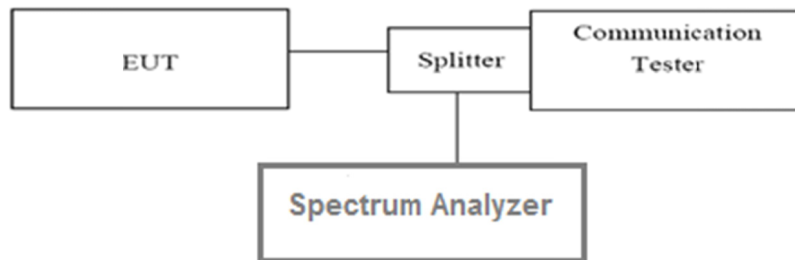
4.4. Band Edge compliance

LIMIT

Part 24.238 and Part 22.917 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

The specification that emissions shall be attenuated below the transmitter power (P) by at least $43 + 10 \log(P)$ dB, translates in the relevant power range (1 to 0.001 W) to -13 dBm. At 1 W the specified minimum attenuation becomes 43 dB and relative to a 30 dBm (1 W) carrier becomes a limit of -13 dBm. At 0.001 W (0 dBm) the minimum attenuation is 13 dB, which again yields a limit of -13 dBm. In this way a translation of the specification from relative to absolute terms is carried out.

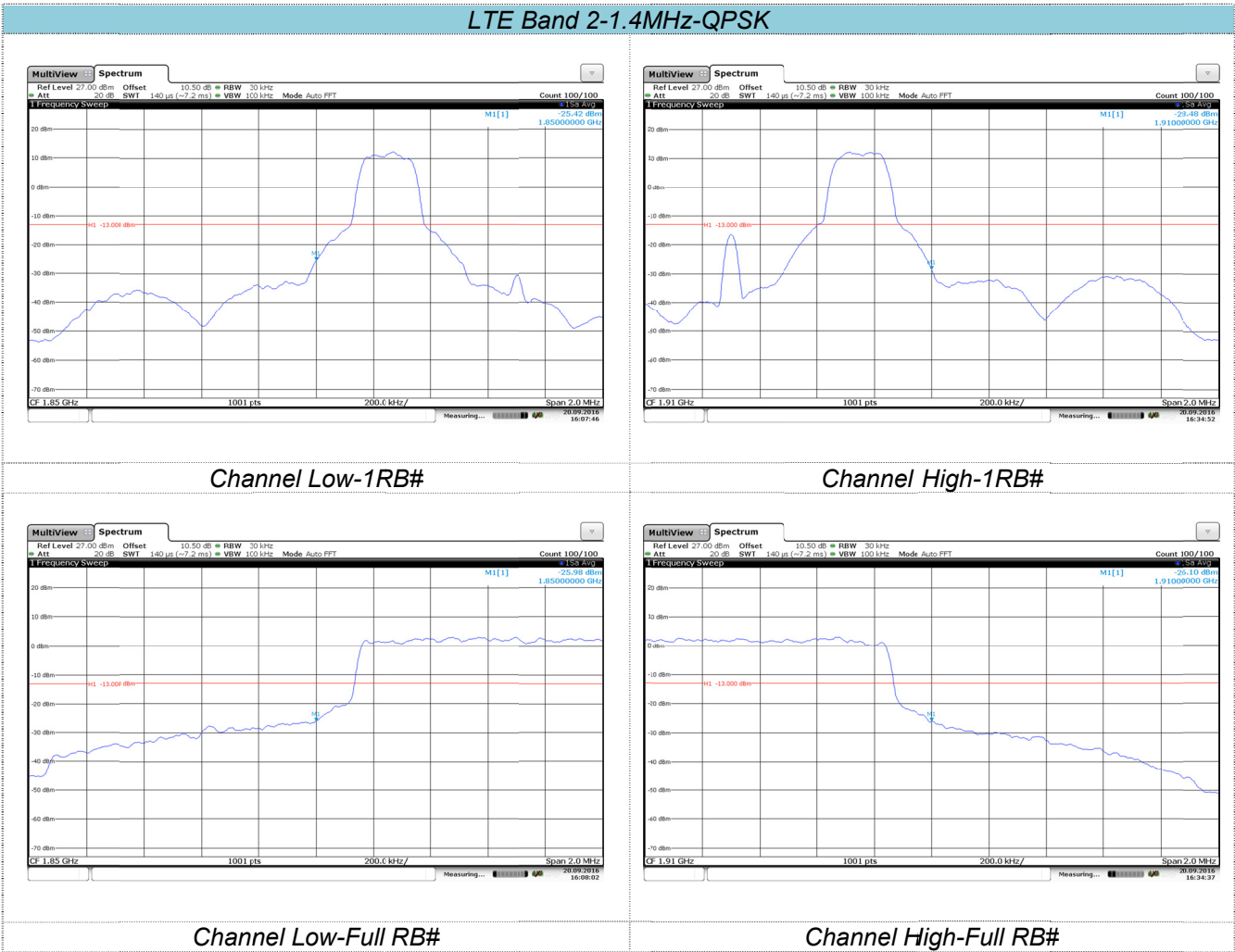
TEST CONFIGURATION



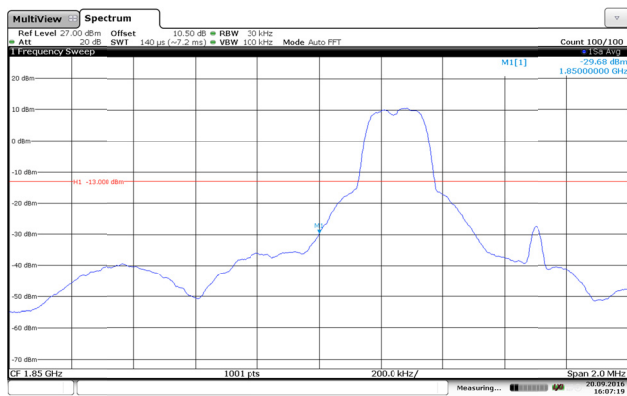
TEST PROCEDURE

1. The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.
2. The band edges of low and high channels for the highest RF powers were measured. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
3. Set spectrum analyzer with RMS detector.

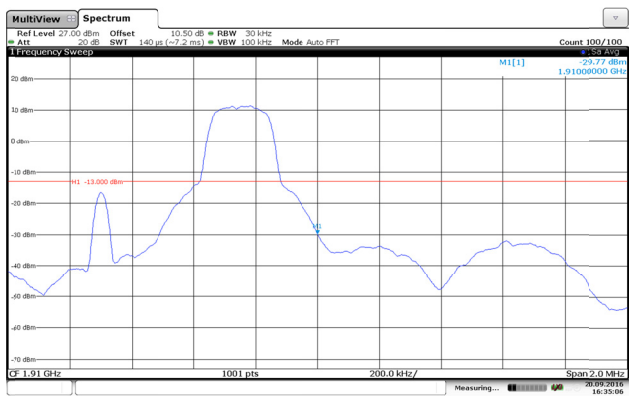
TEST RESULTS



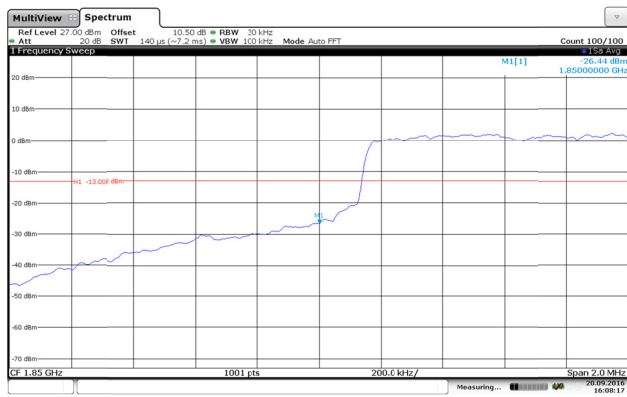
LTE Band 2-1.4MHz-16QAM



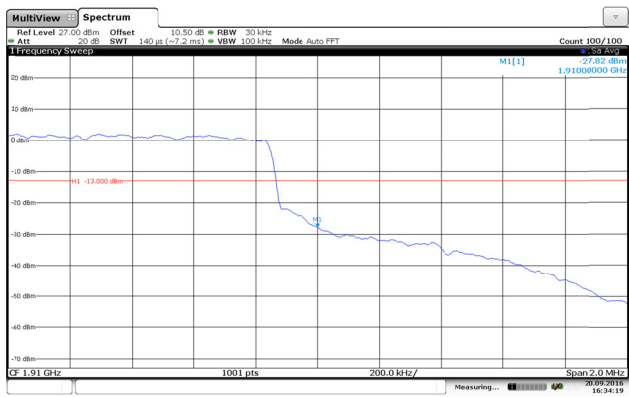
Channel Low-1RB#



Channel High-1RB#

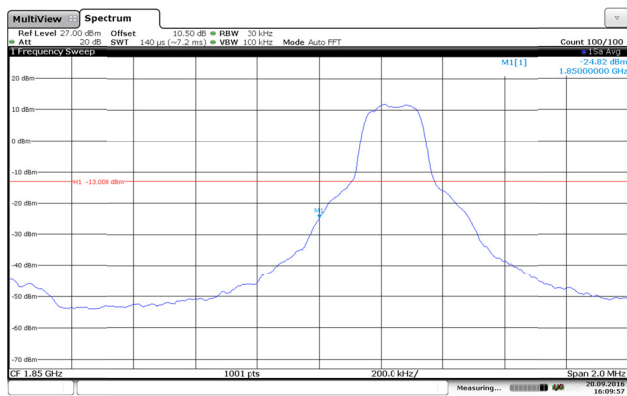


Channel Low-Full RB#

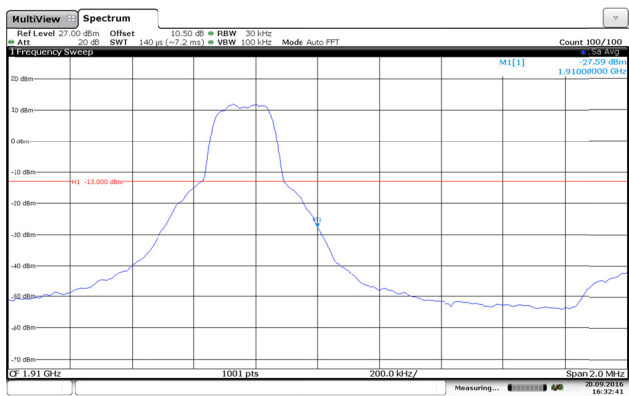


Channel High-Full RB#

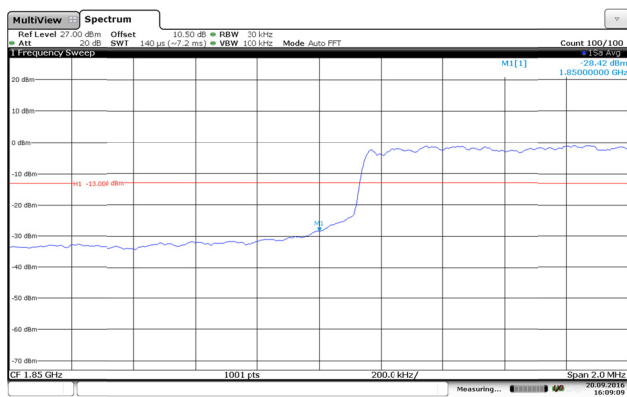
LTE Band 2-3MHz-QPSK



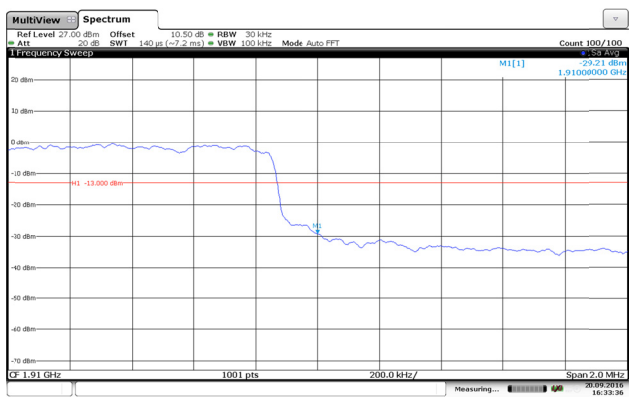
Channel Low-1RB#



Channel High-1RB#

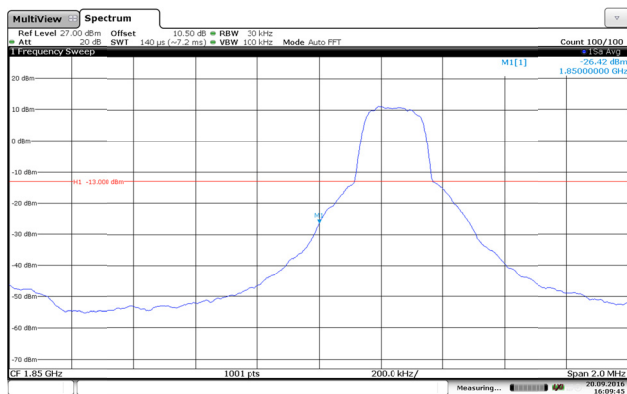


Channel Low-Full RB#

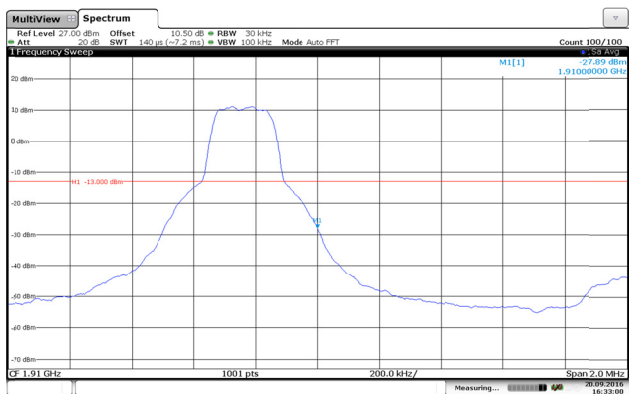


Channel High-Full RB#

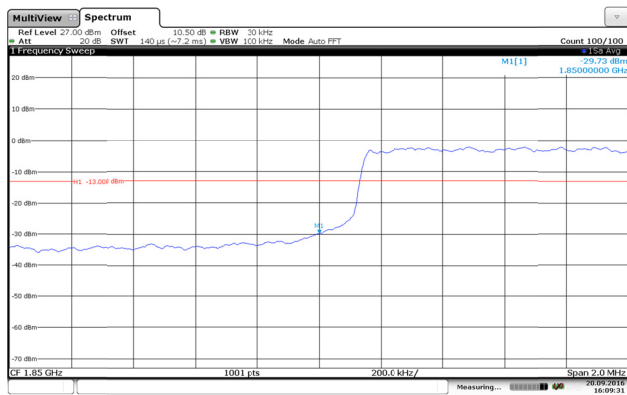
LTE Band 2-3MHz-16QAM



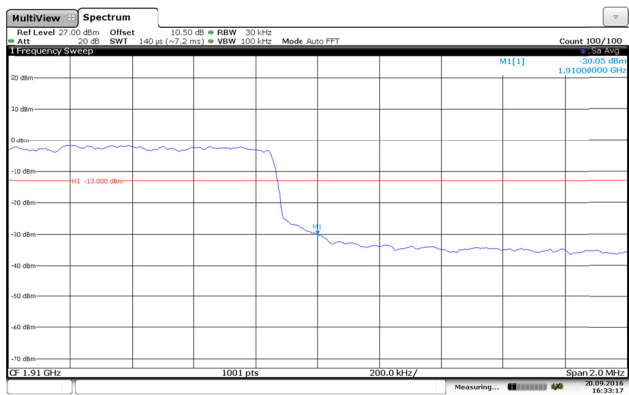
Channel Low-1RB#



Channel High-1RB#



Channel Low-Full RB#



Channel High-Full RB#