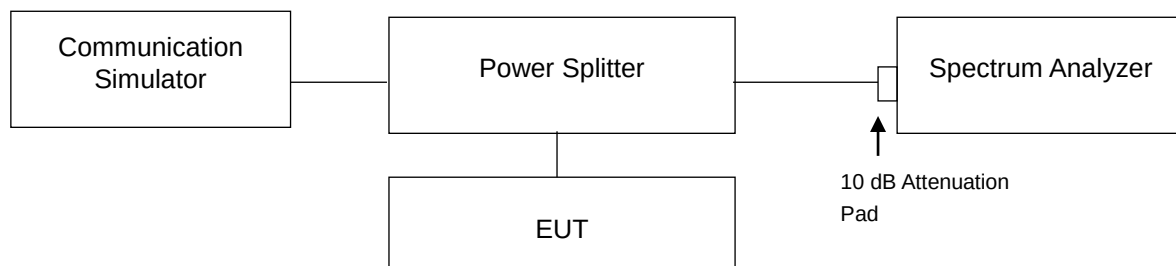


4.5 Out-of-Band Emissions Measurement

4.5.1 Limits of Out-of-Band Emissions Measurement

According to FCC 27.53(m)(4)&(6) specified that power of any emission outside of the channel edge must be attenuated below the transmitting power (P) by a factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. In the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed, except when the 1 megahertz band is 2495-2496 MHz, in which case a resolution bandwidth of at least one percent may be employed.

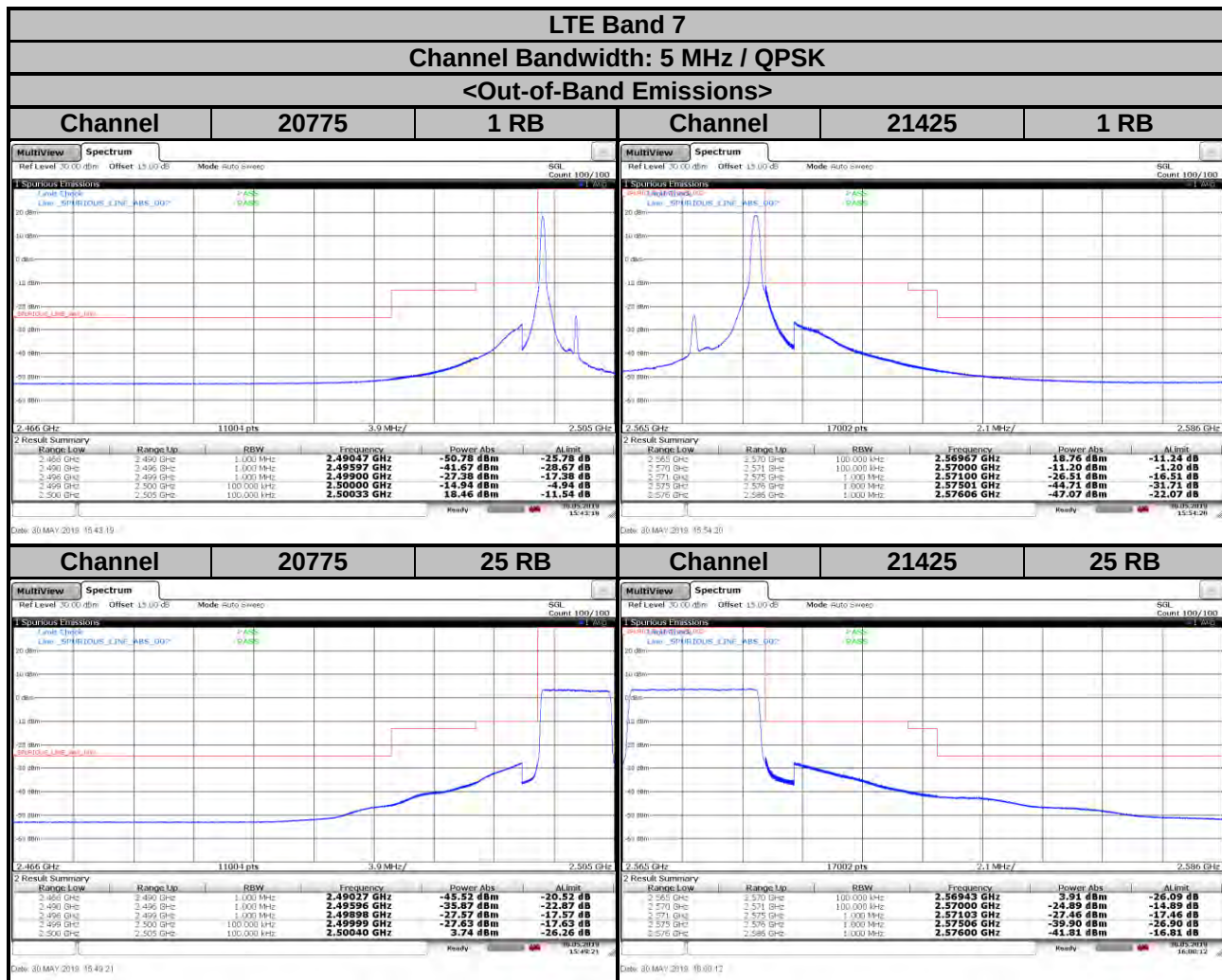
4.5.2 Test Setup



4.5.3 Test Procedures

- The EUT was set up for the maximum peak power with LTE link data modulation. The power was measured with R&S Spectrum Analyzer. All measurements were done at 2 channels (low and high operational frequency range.).
- The out-of-band emissions measurement used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Record the max. trace plot into the test report.

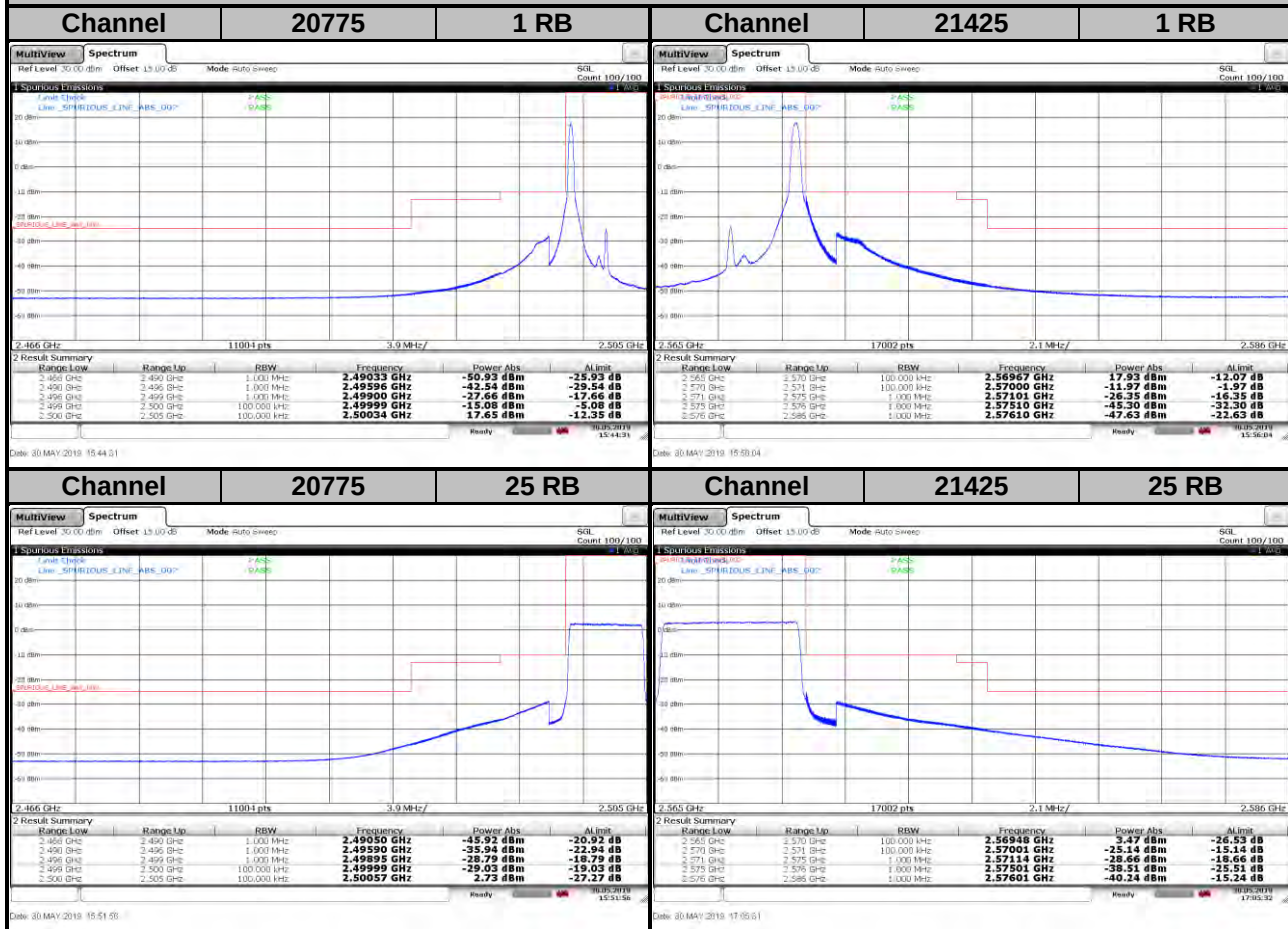
4.5.4 Test Results

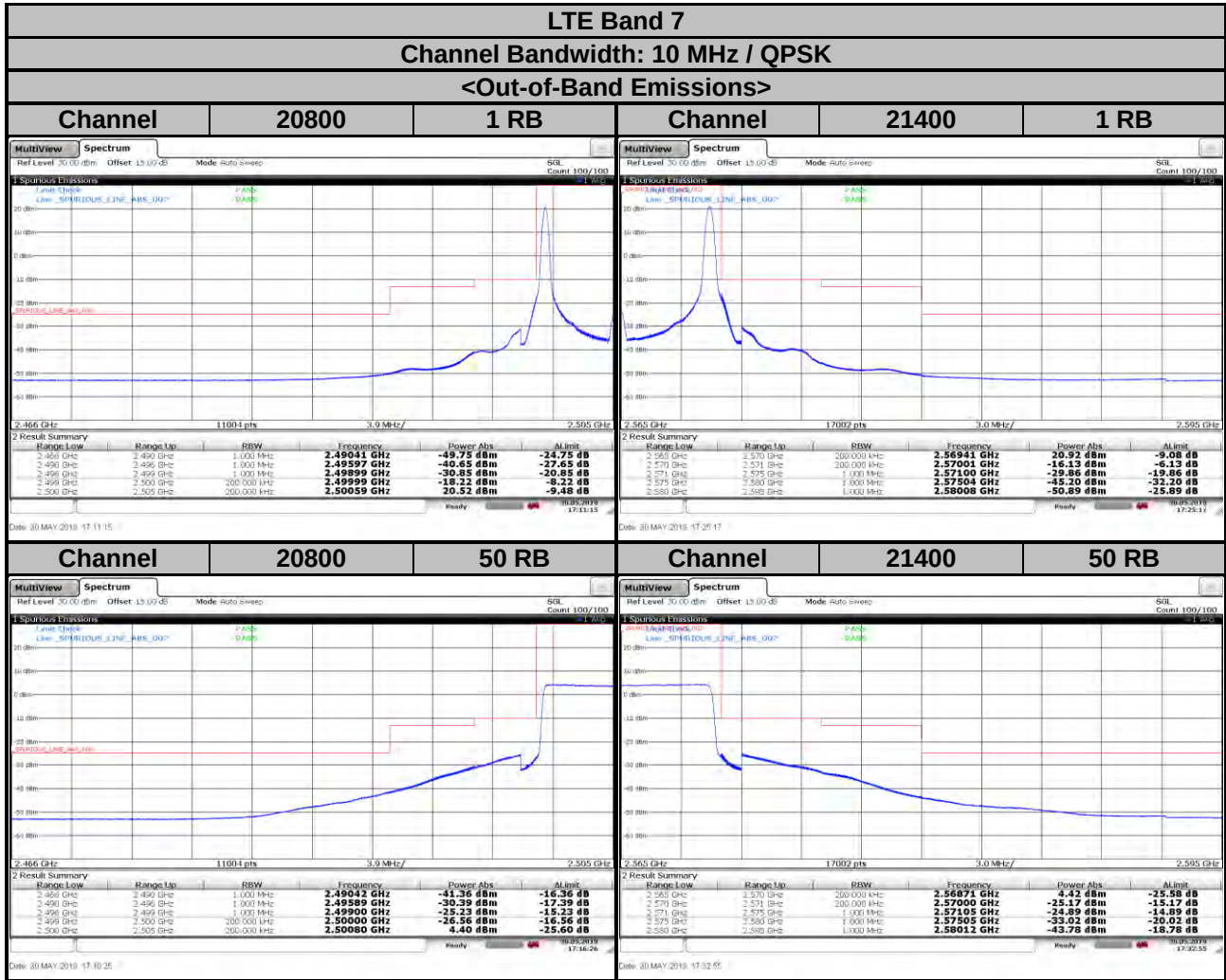


LTE Band 7

Channel Bandwidth: 5 MHz / 16QAM

<Out-of-Band Emissions>

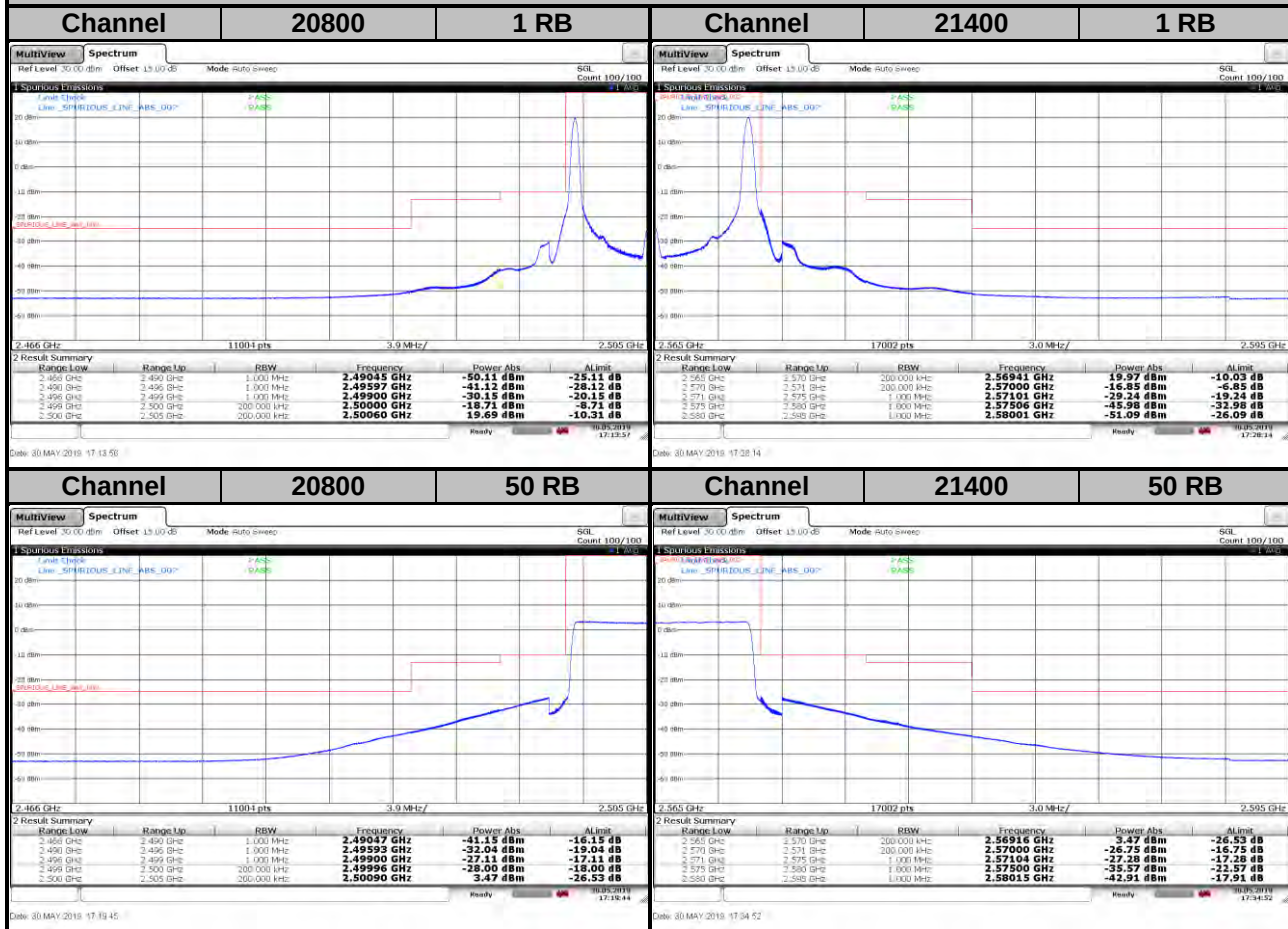




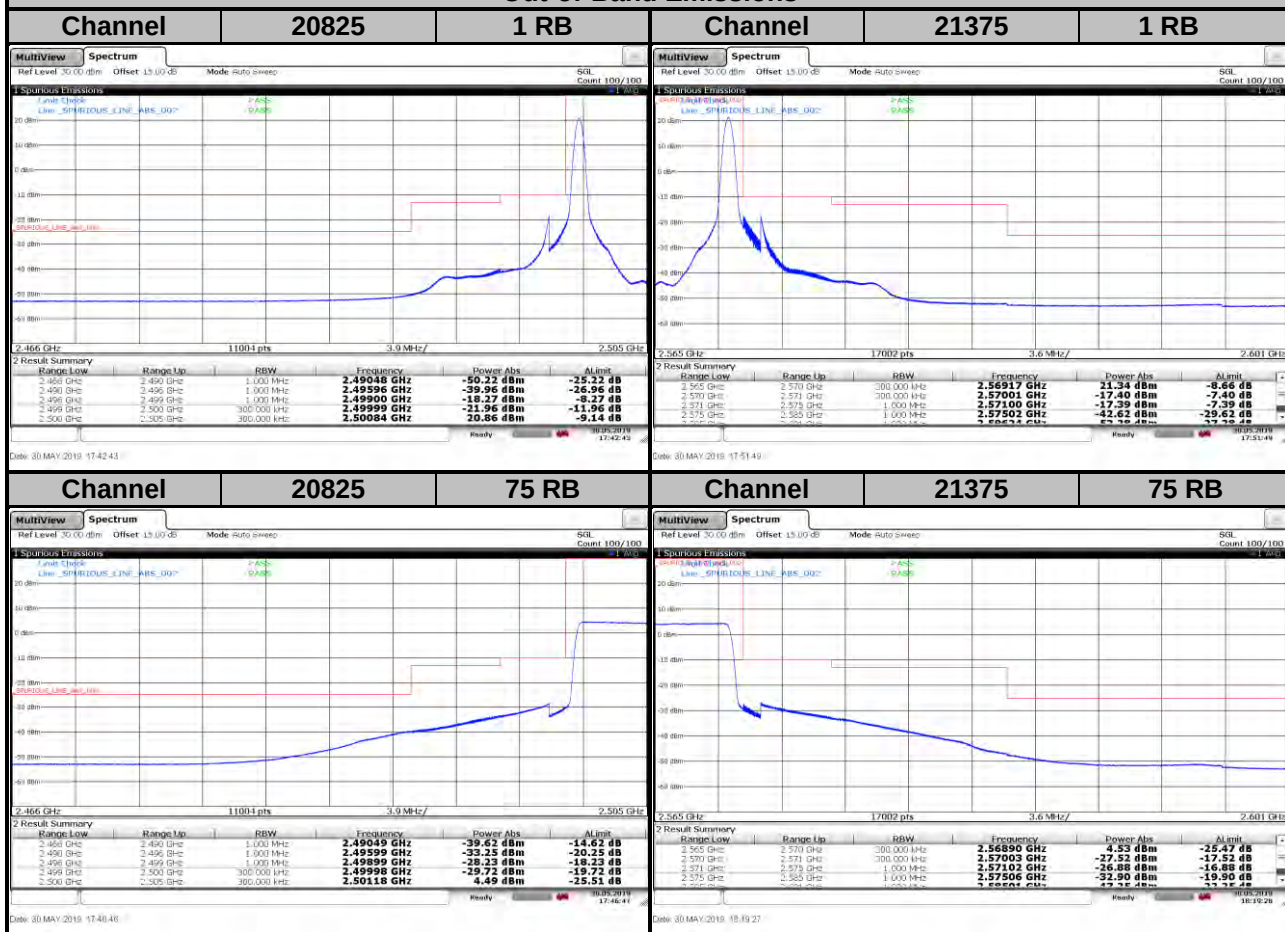
LTE Band 7

Channel Bandwidth: 10 MHz / 16QAM

<Out-of-Band Emissions>



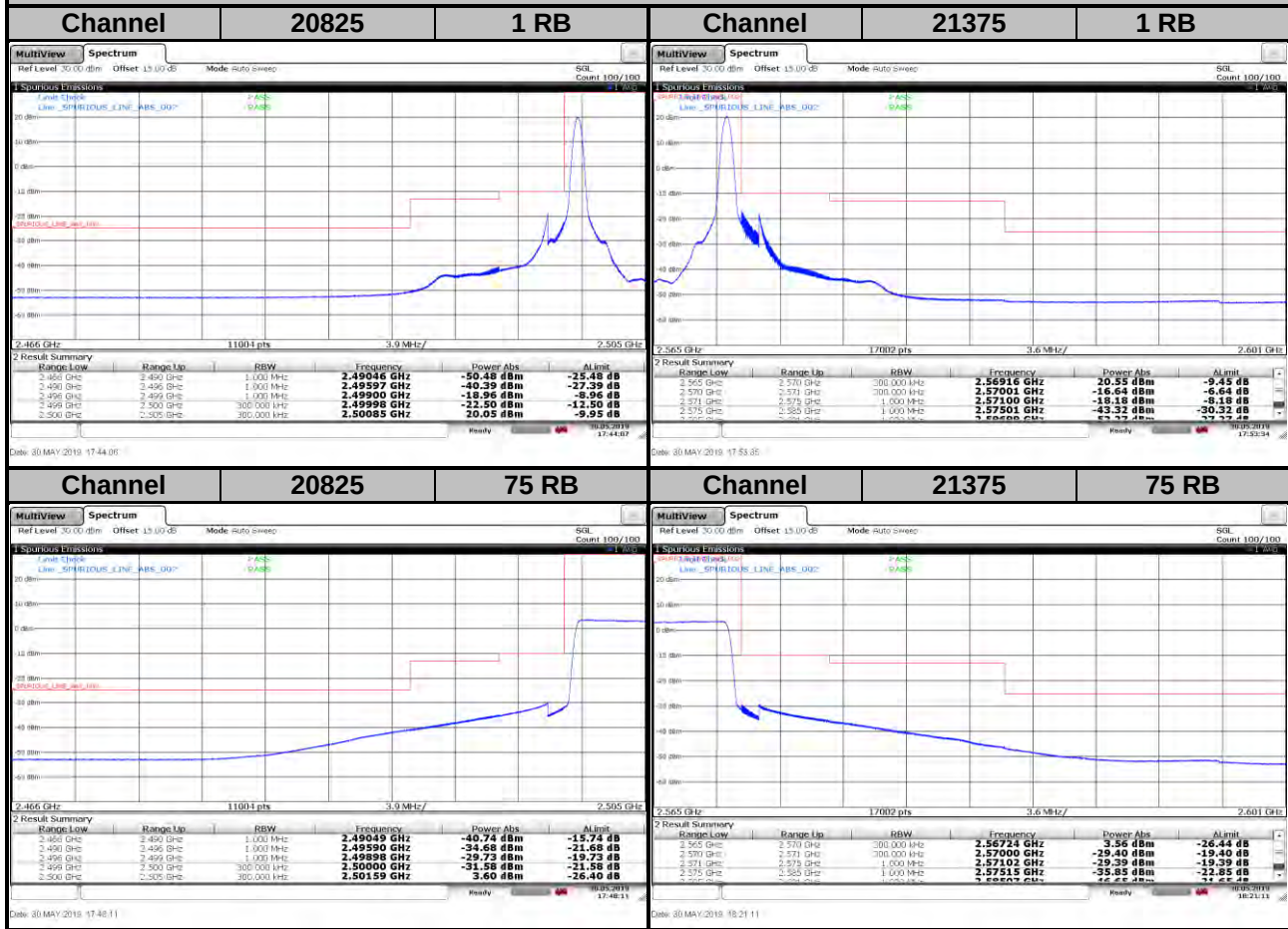
LTE Band 7
Channel Bandwidth: 15 MHz / QPSK
<Out-of-Band Emissions>



LTE Band 7

Channel Bandwidth: 15 MHz / 16QAM

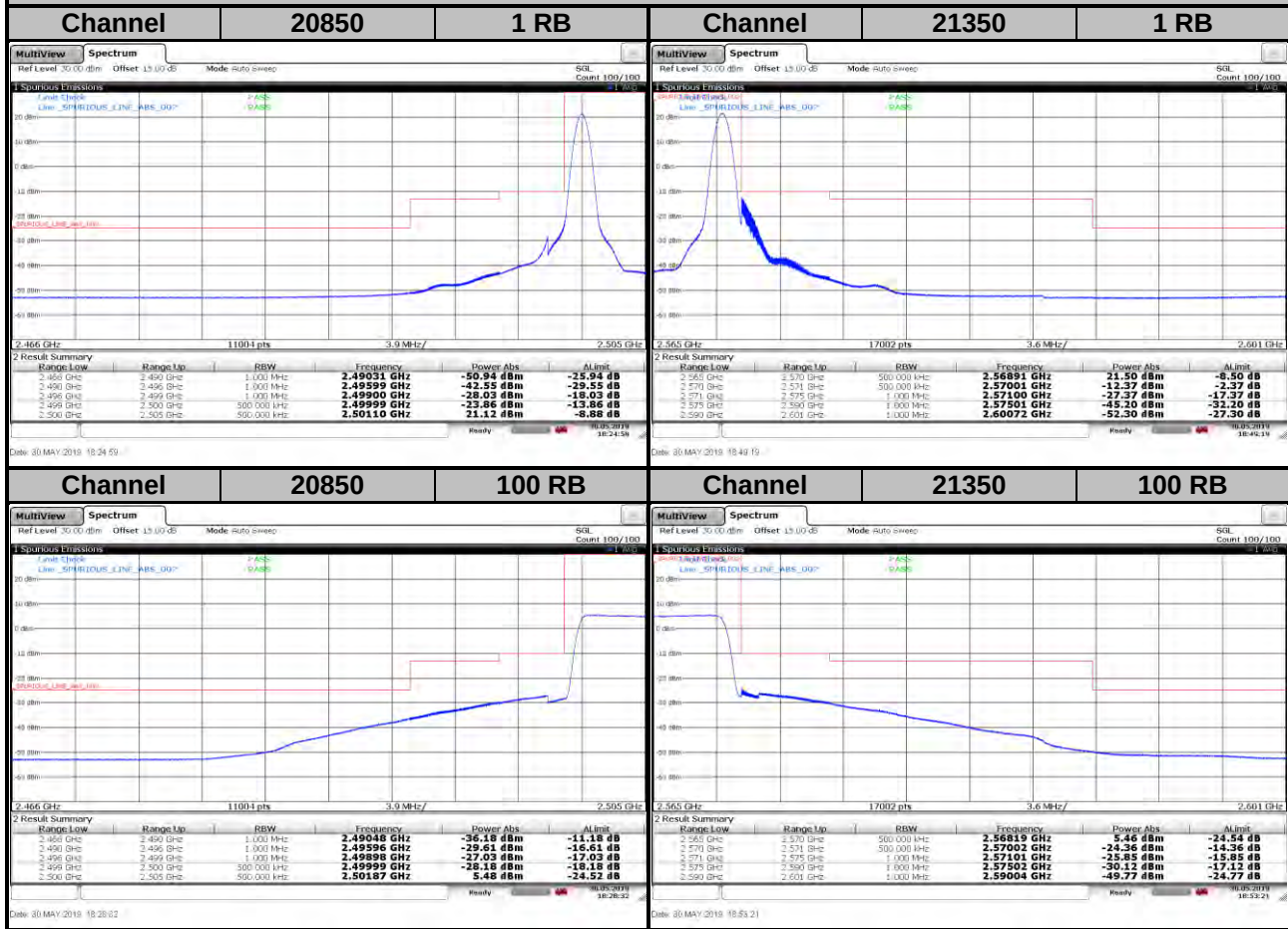
<Out-of-Band Emissions>



LTE Band 7

Channel Bandwidth: 20 MHz / QPSK

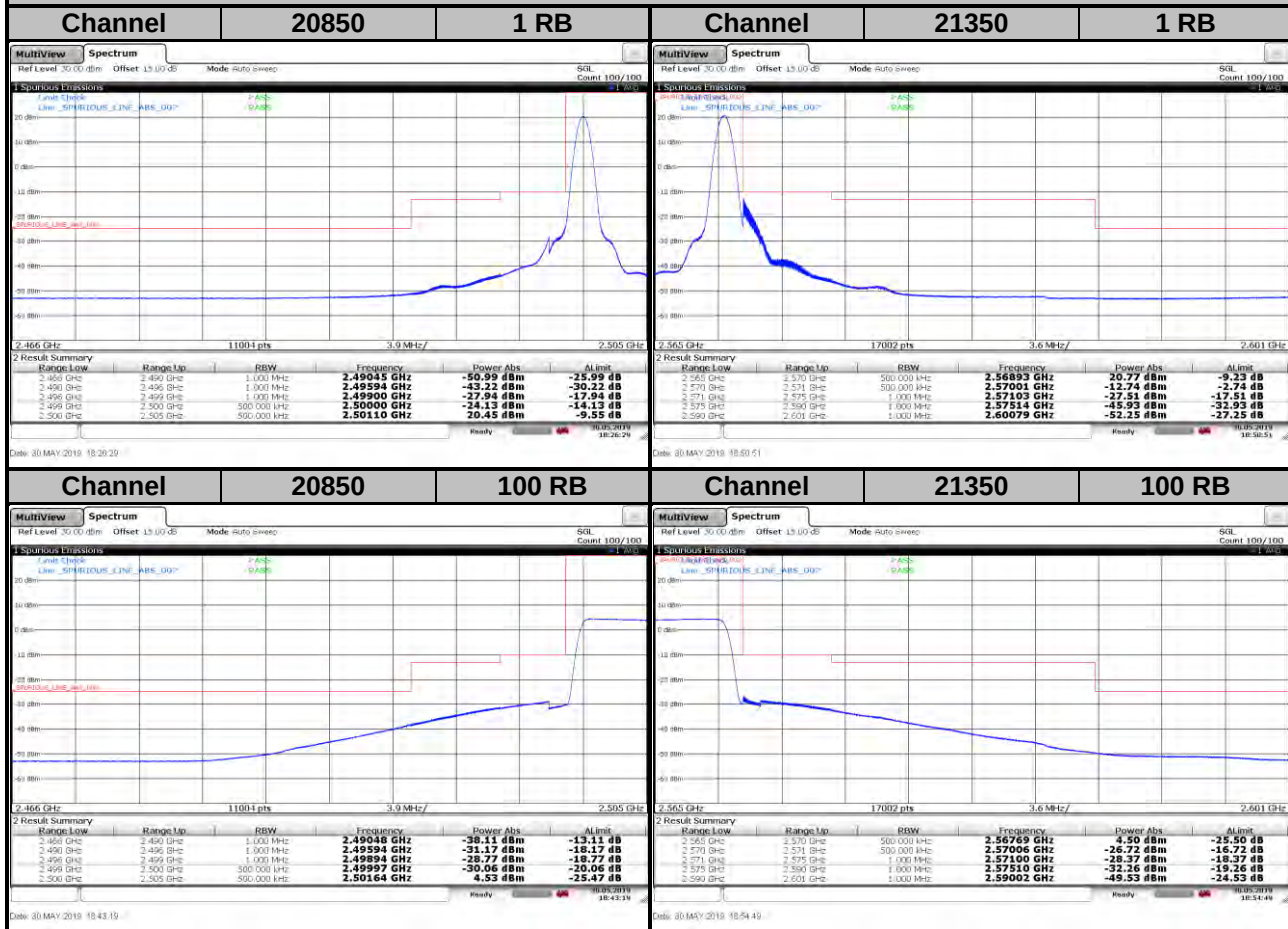
<Out-of-Band Emissions>



LTE Band 7

Channel Bandwidth: 20 MHz / 16QAM

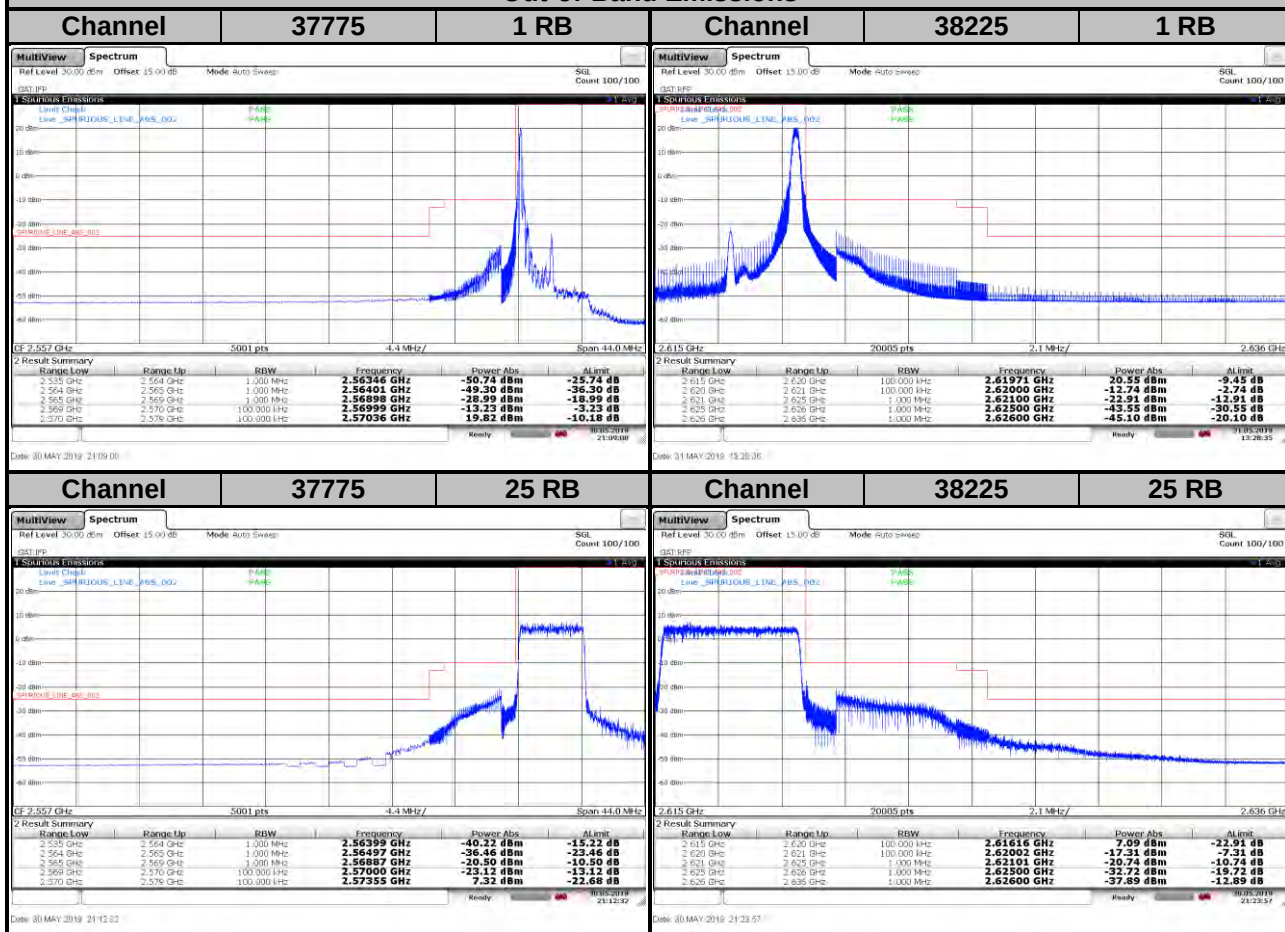
<Out-of-Band Emissions>



LTE Band 38

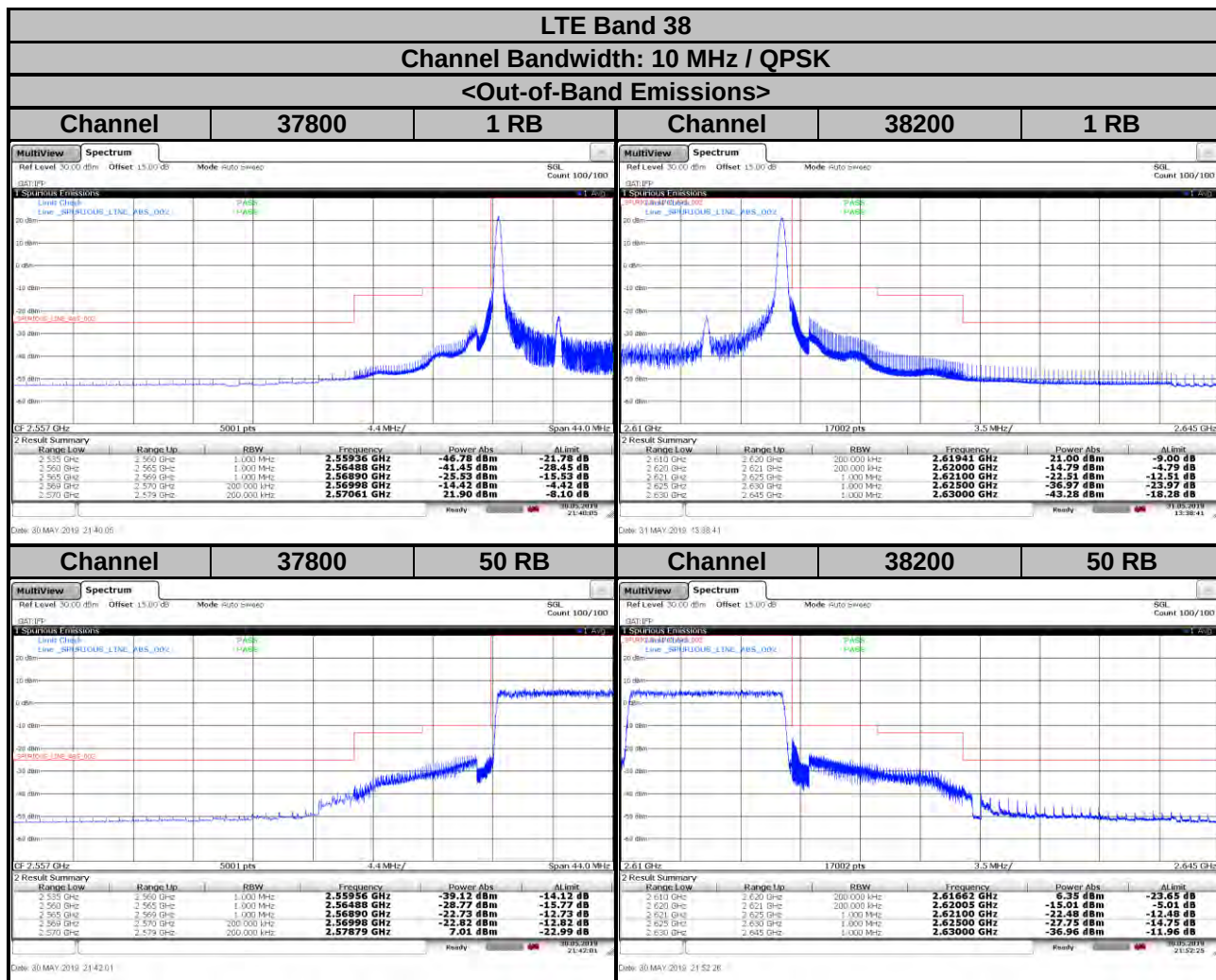
Channel Bandwidth: 5 MHz / QPSK

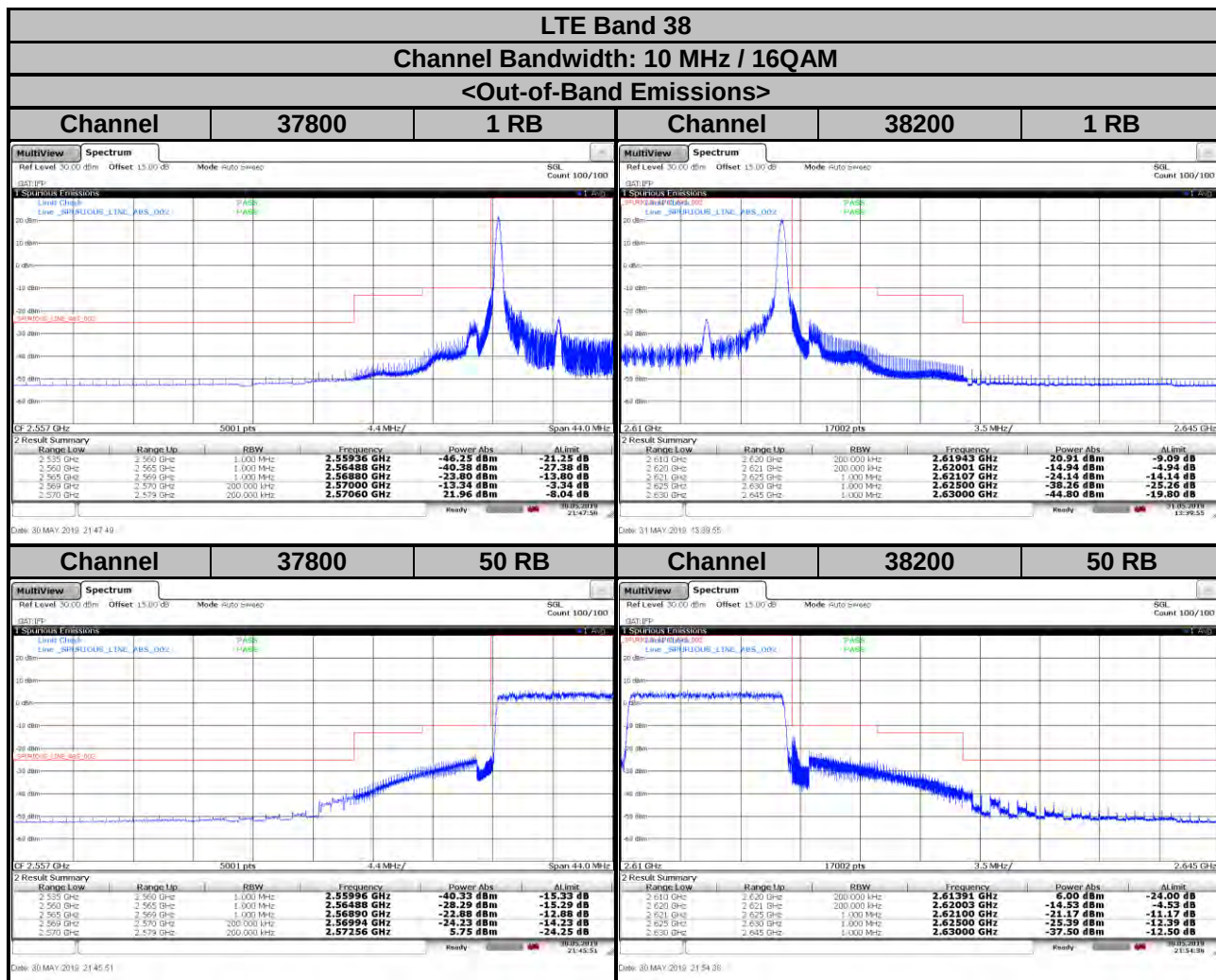
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<Out-of-Band Emissions>

Date: 30 MAY 2019 21:14:11 Date: 30 MAY 2019 21:28:26

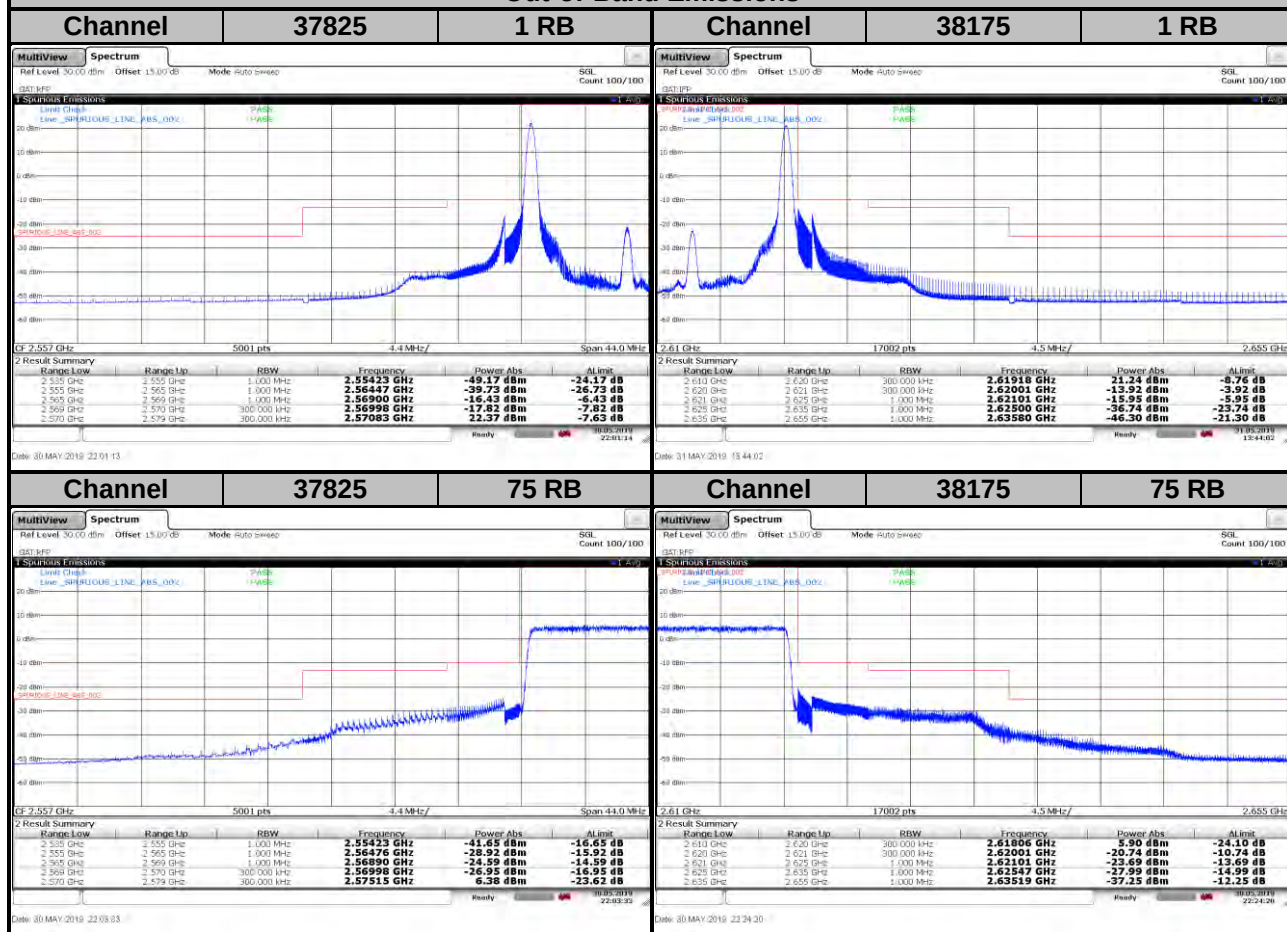




LTE Band 38

Channel Bandwidth: 15 MHz / QPSK

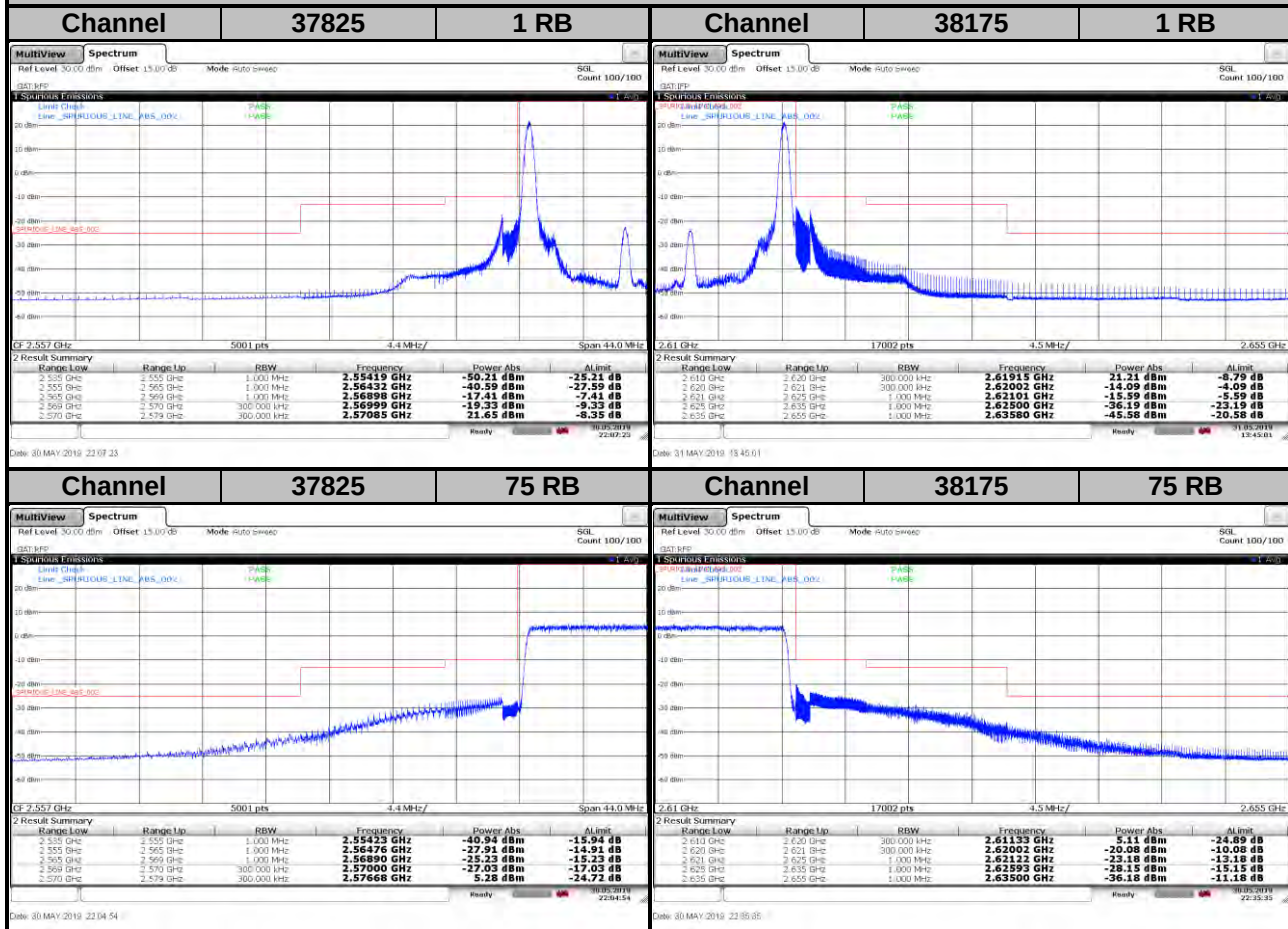
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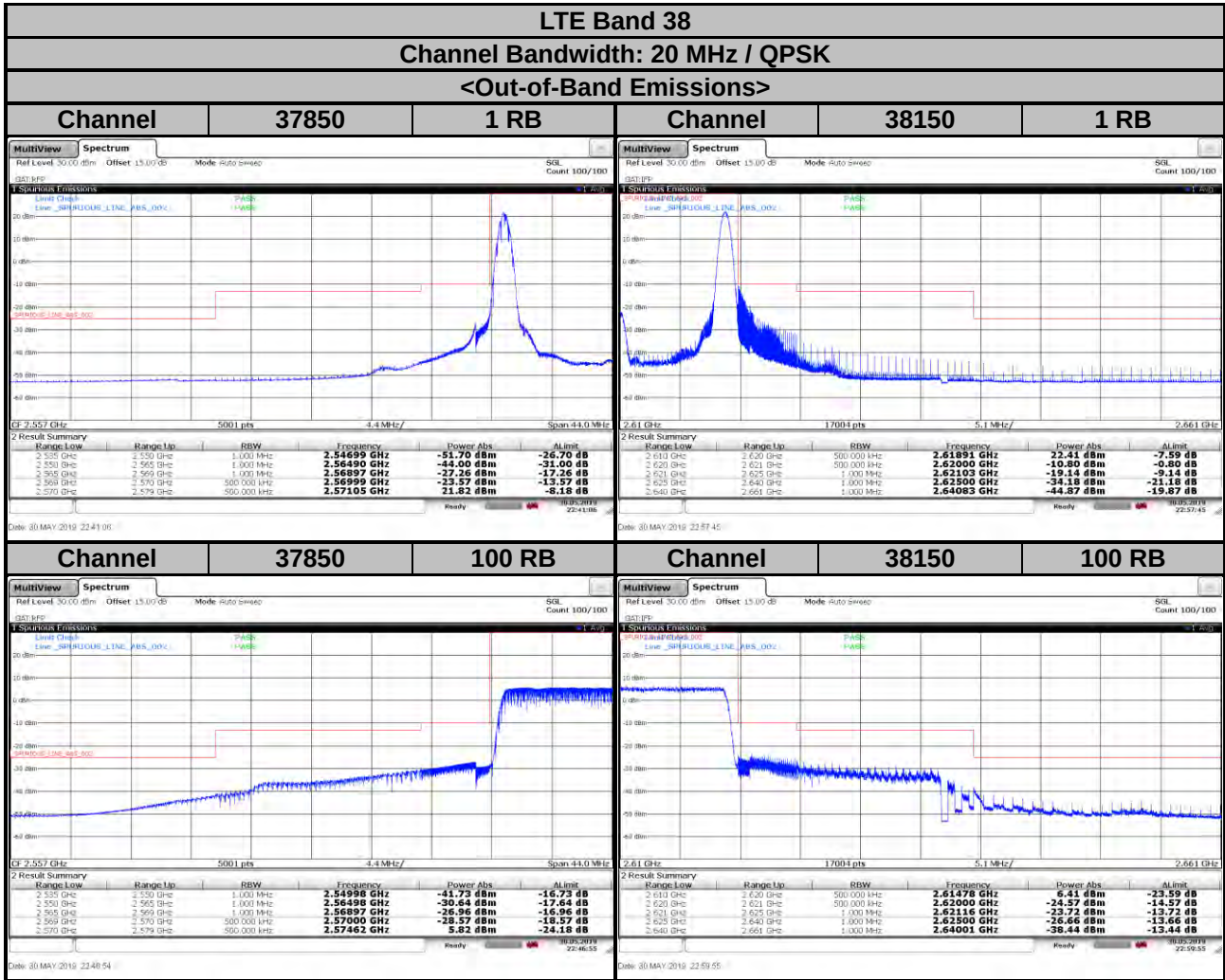


LTE Band 38

Channel Bandwidth: 15 MHz / 16QAM

<Out-of-Band Emissions>

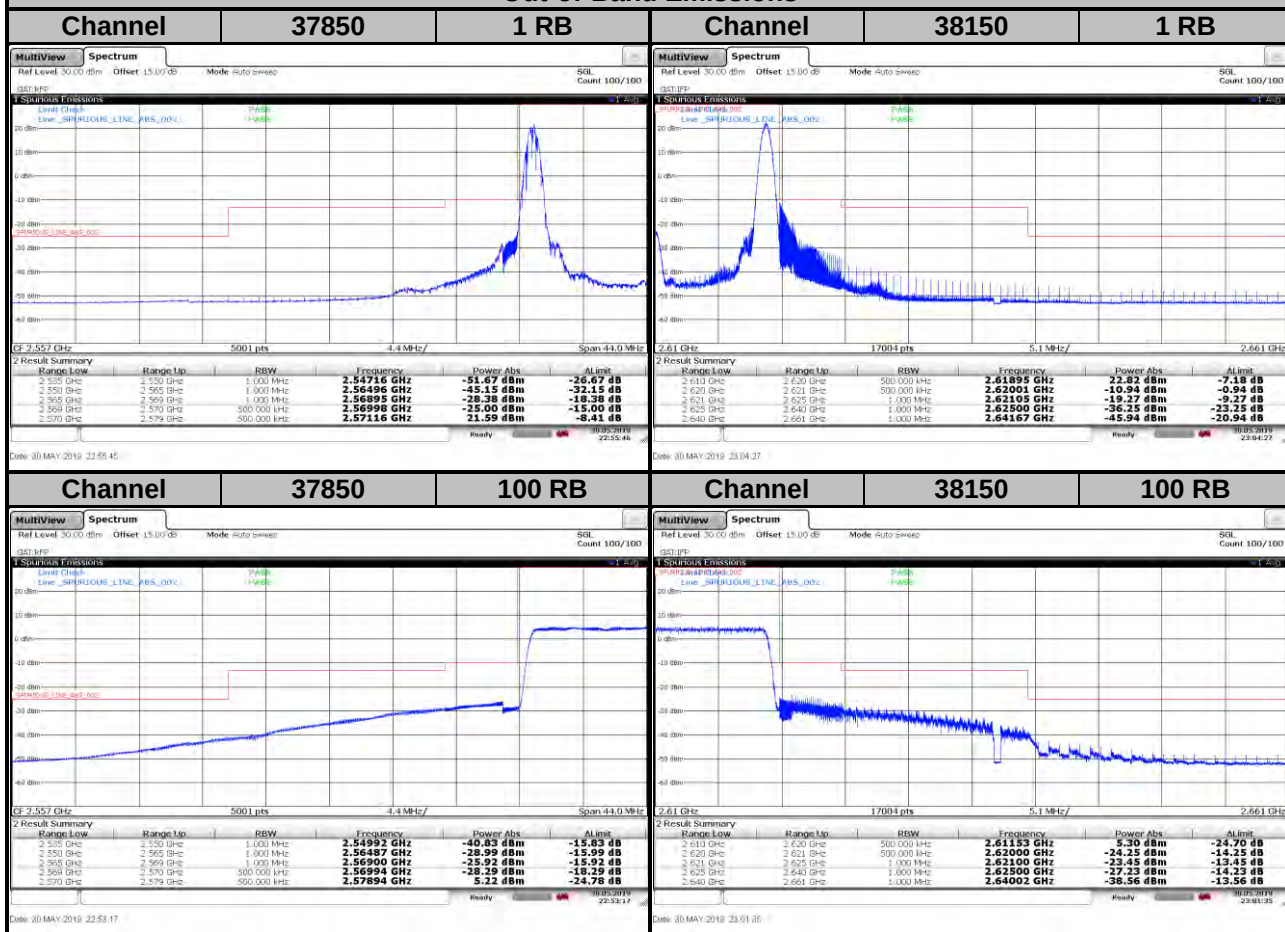


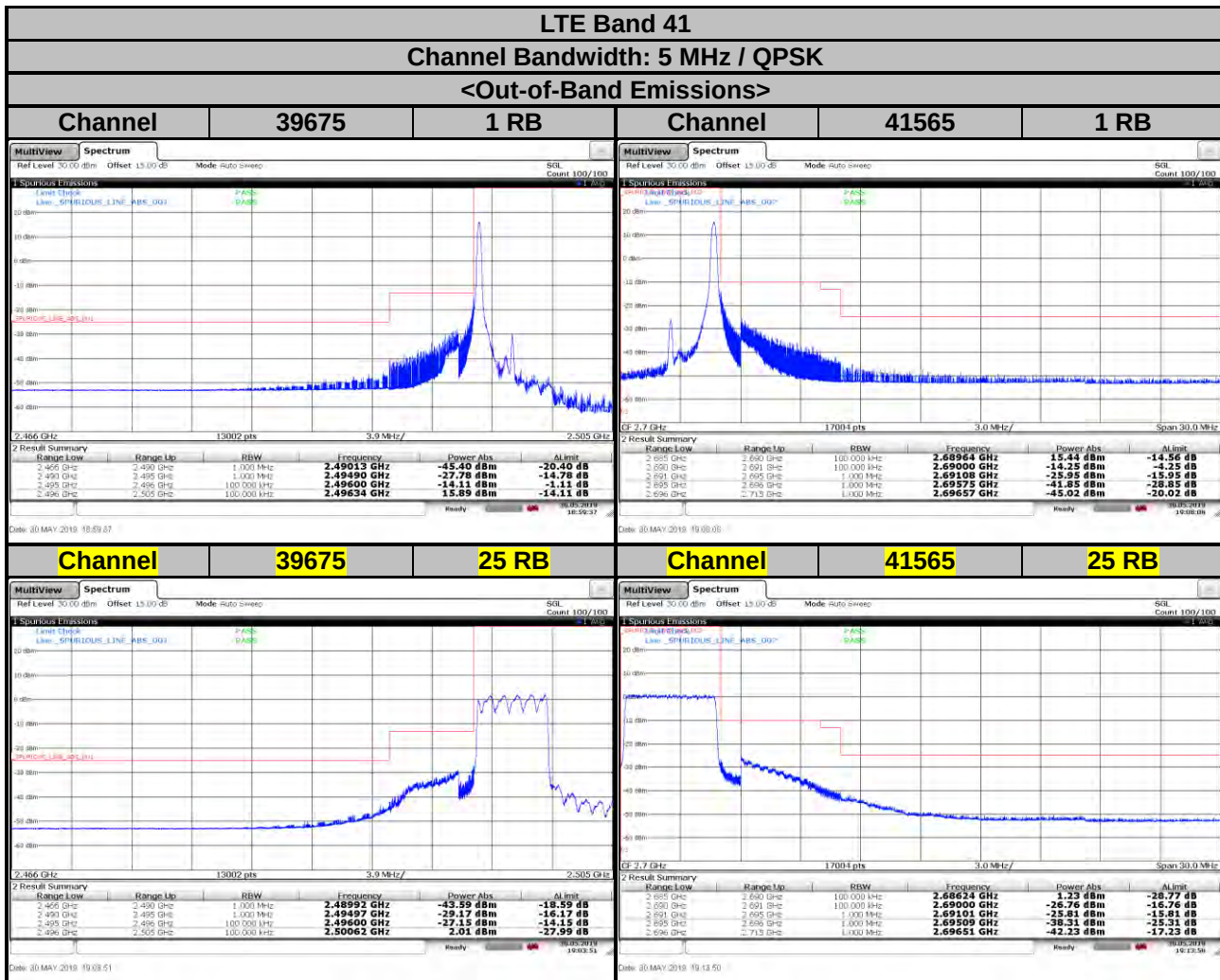


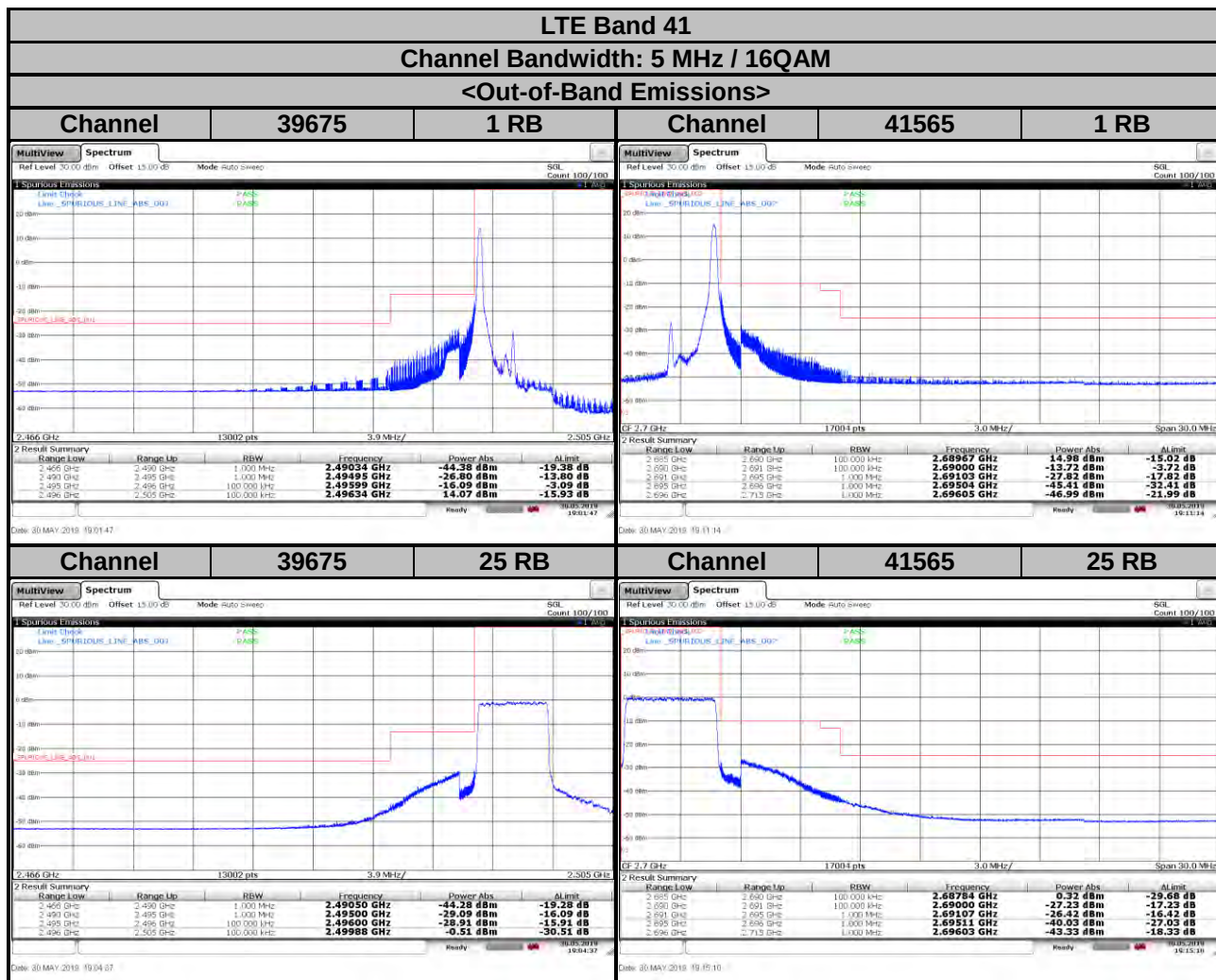
LTE Band 38

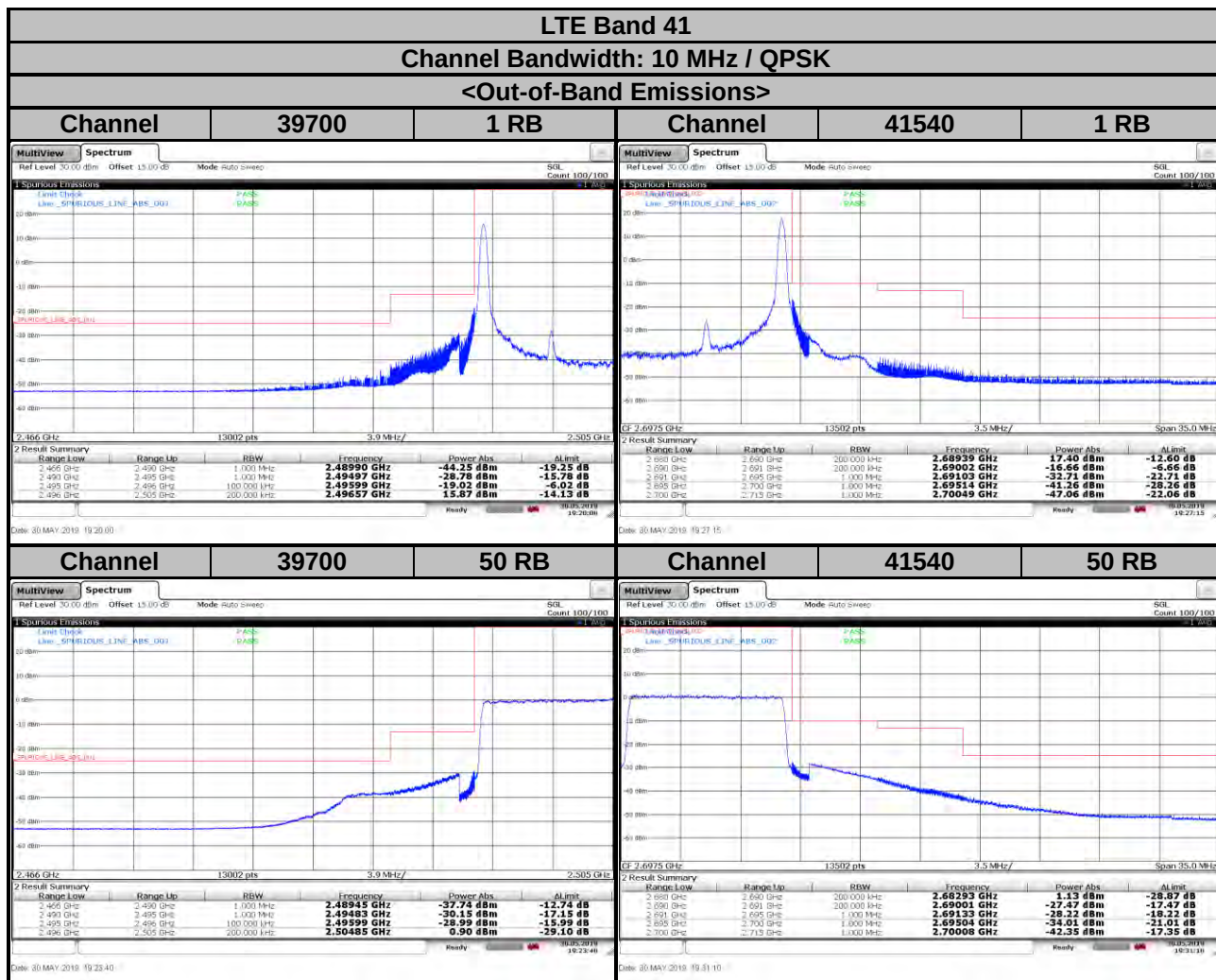
Channel Bandwidth: 20 MHz / 16QAM

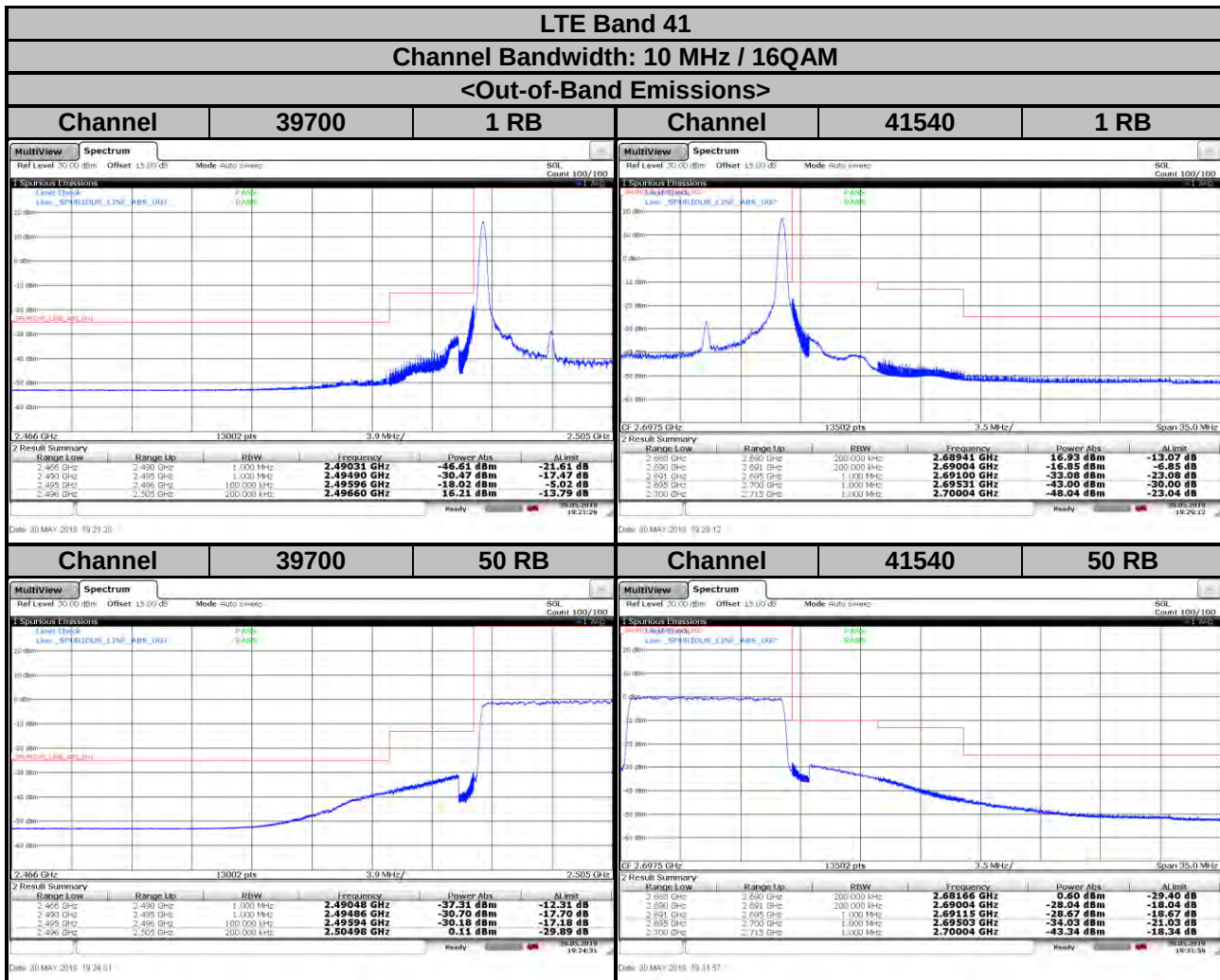
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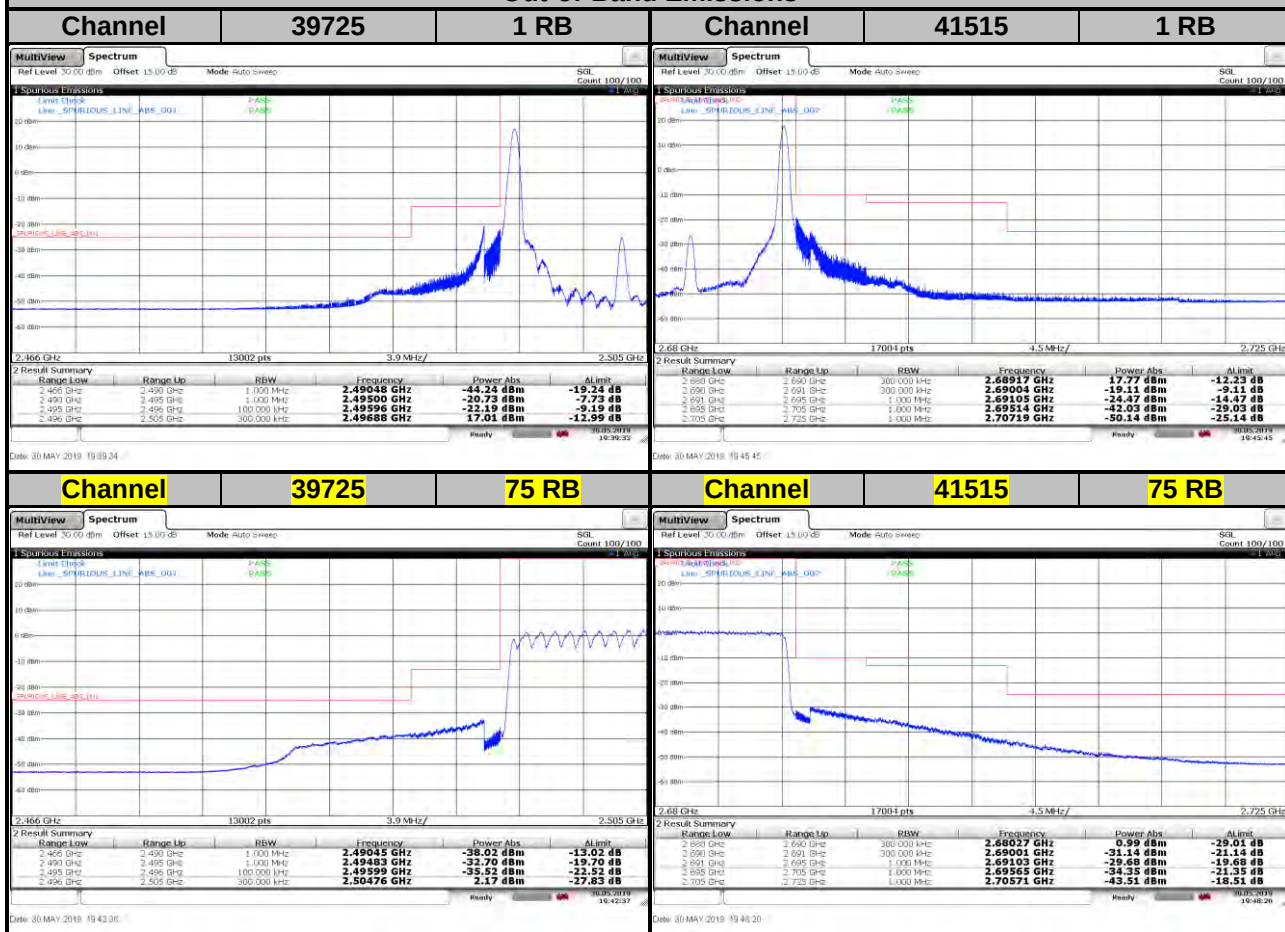




LTE Band 41

Channel Bandwidth: 15 MHz / QPSK

<Out-of-Band Emissions>



LTE Band 41

Channel Bandwidth: 15 MHz / 16QAM

<Out-of-Band Emissions>

