

A.1.4 Conducted band-edge and spurious emission

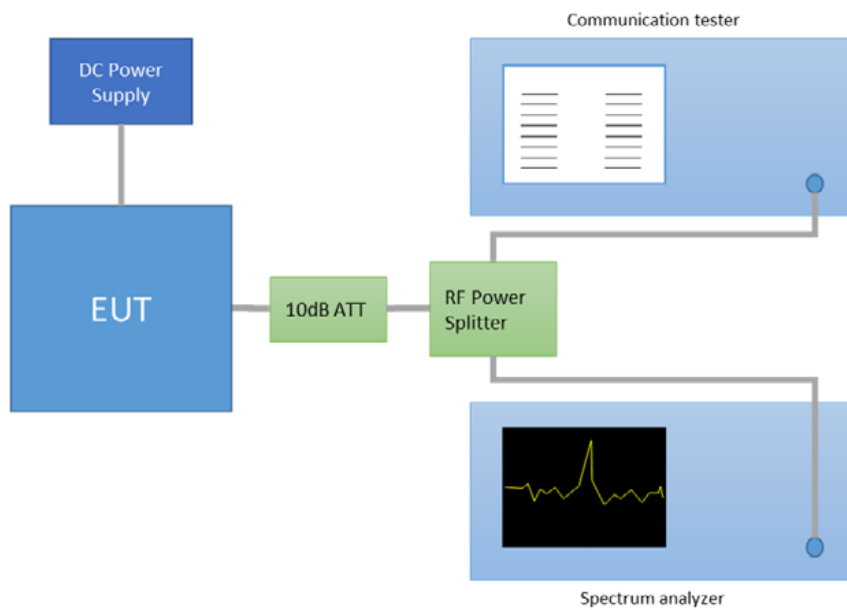
Standard references

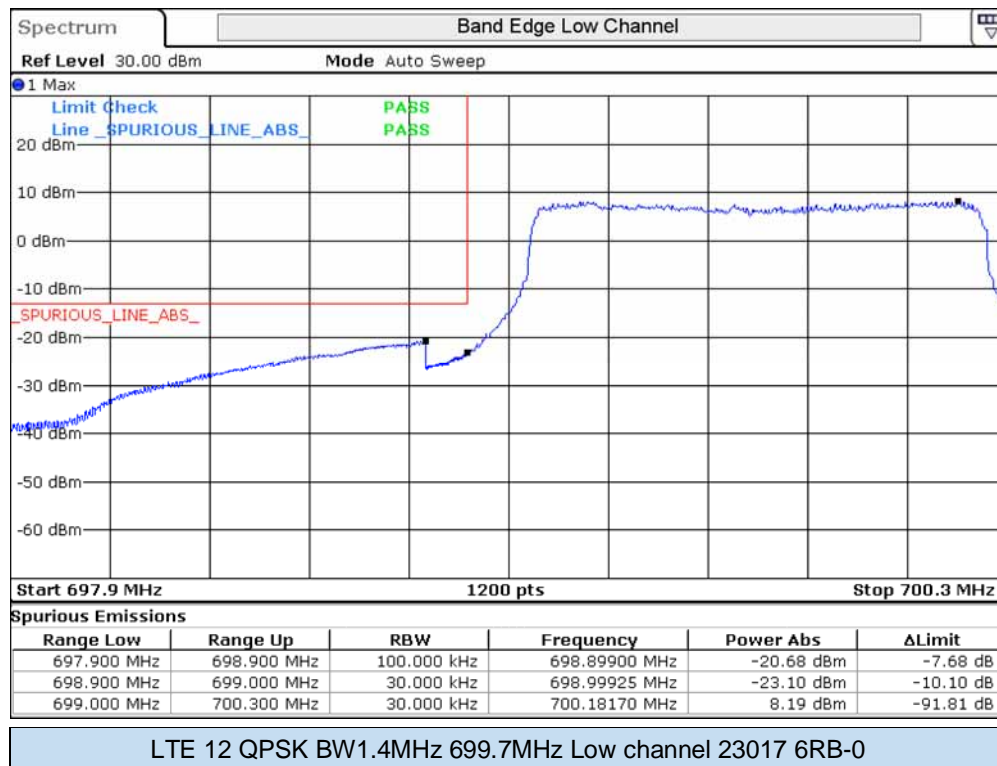
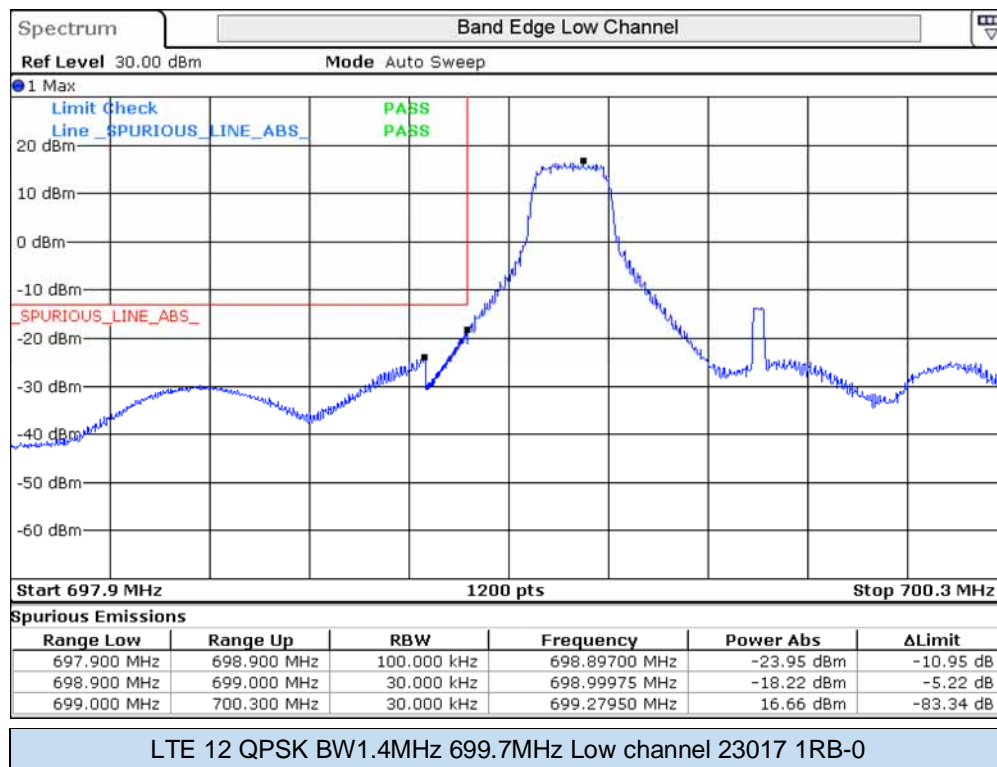
BAND	FCC part	RSS part	Limits
LTE 12, 13, 7	2. 1051, 27.53	139-ch.6.5	The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.
LTE 26	2. 1051, 22.917, 90.691	132-ch.5.5	<p><u>Lower edge:</u></p> <p>The emission limits are as follows: (1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz. (2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.</p> <p><u>Higher edge:</u></p> <p>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 $43 + 10 \log_{10}(P)$ dB.</p>
LTE 41	27.53	199-ch.4.6	The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.

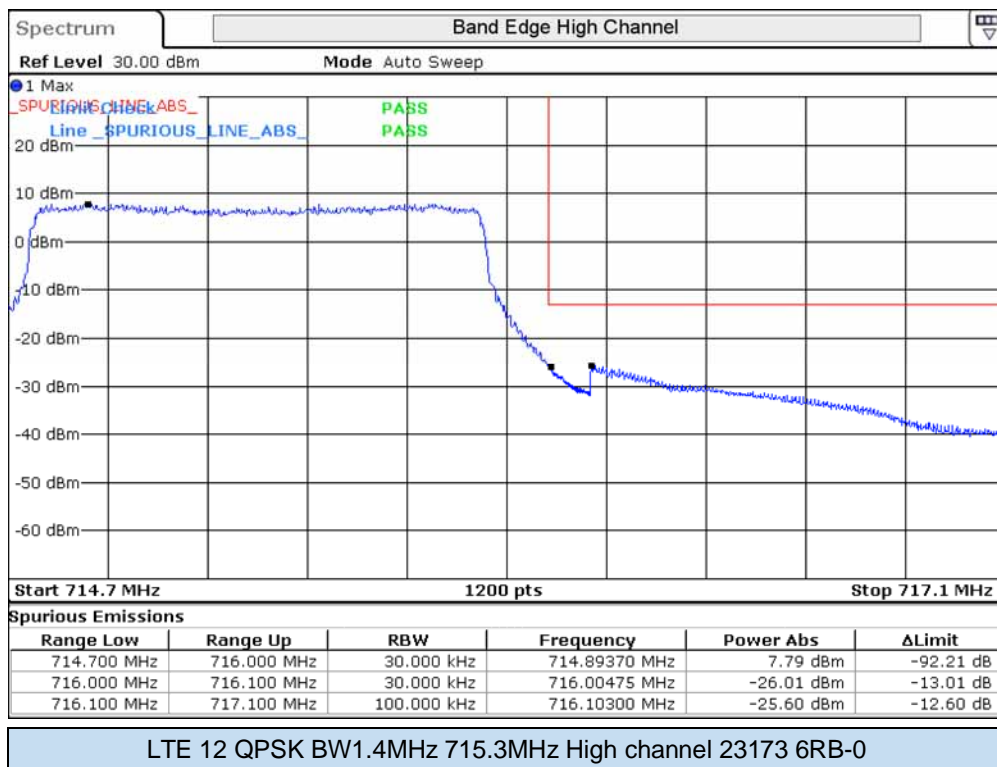
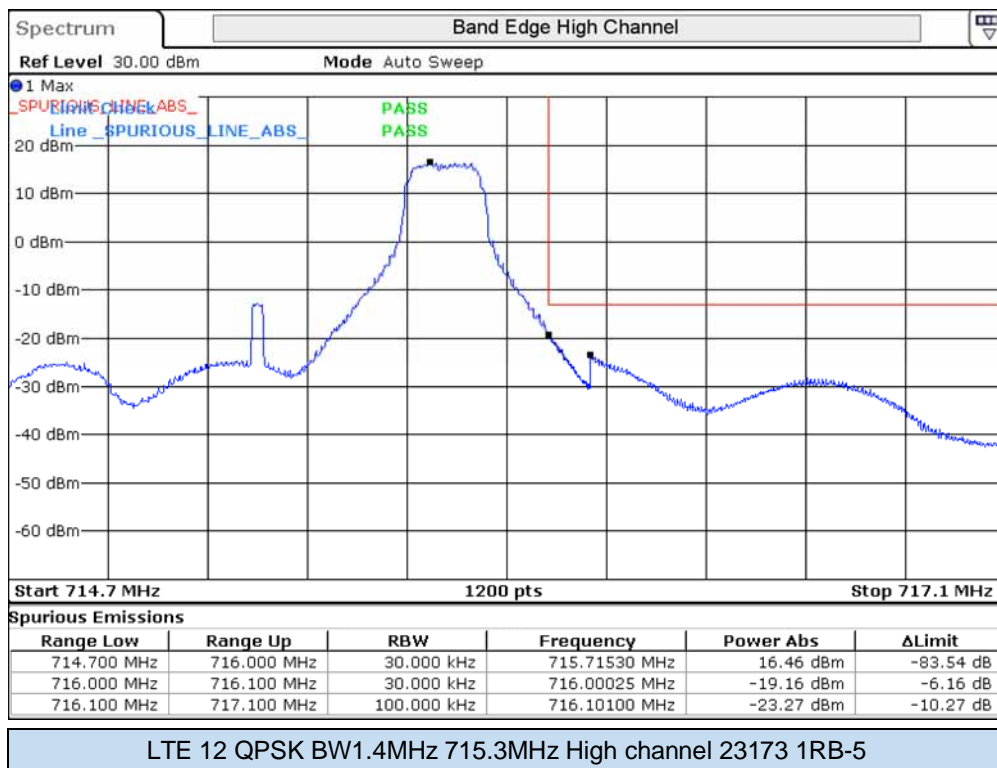
Test procedure

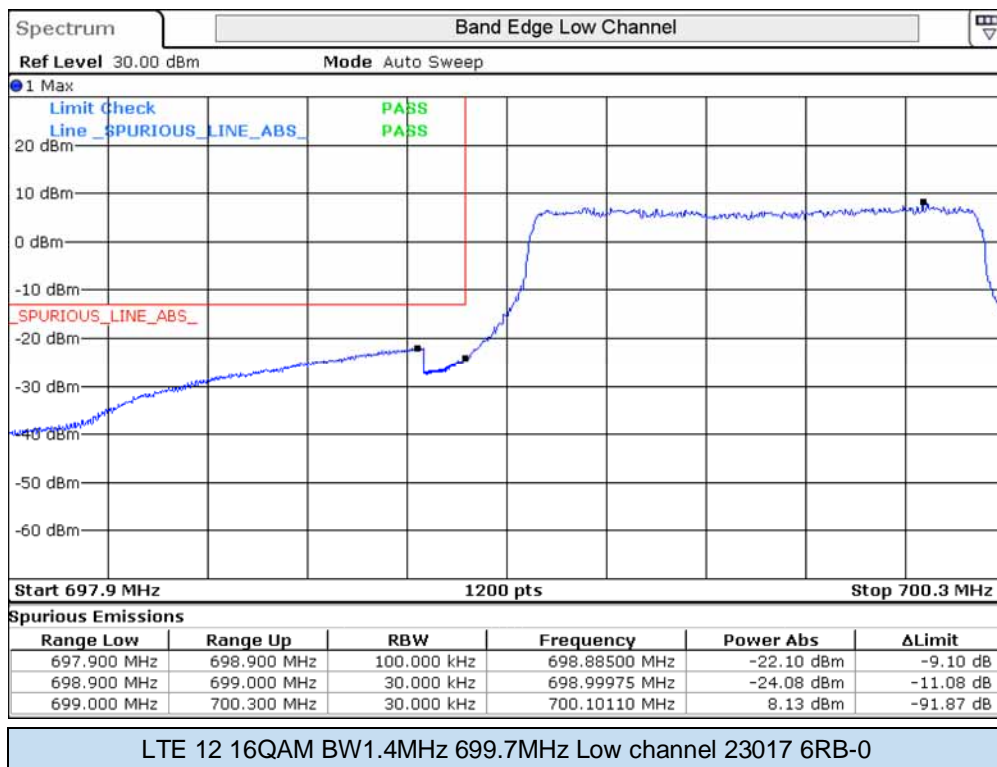
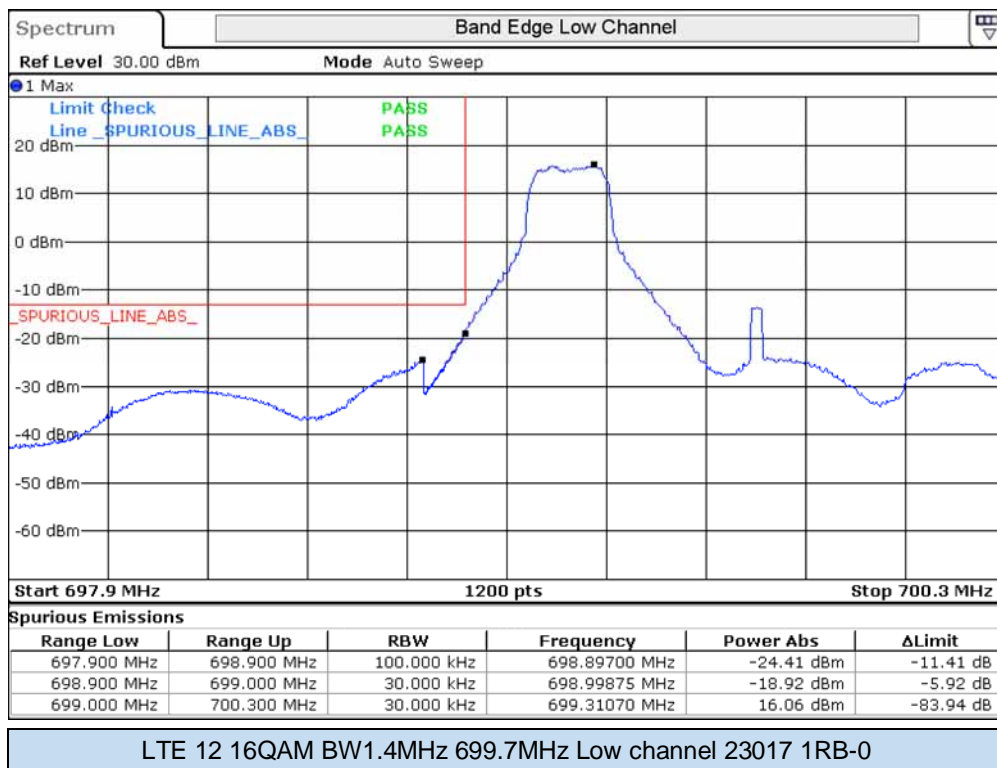
The setup below was used to measure the band-edge and the conducted spurious. The antenna terminal of the EUT is connected to the spectrum analyzer and the communication tester through an attenuator and a power splitter.

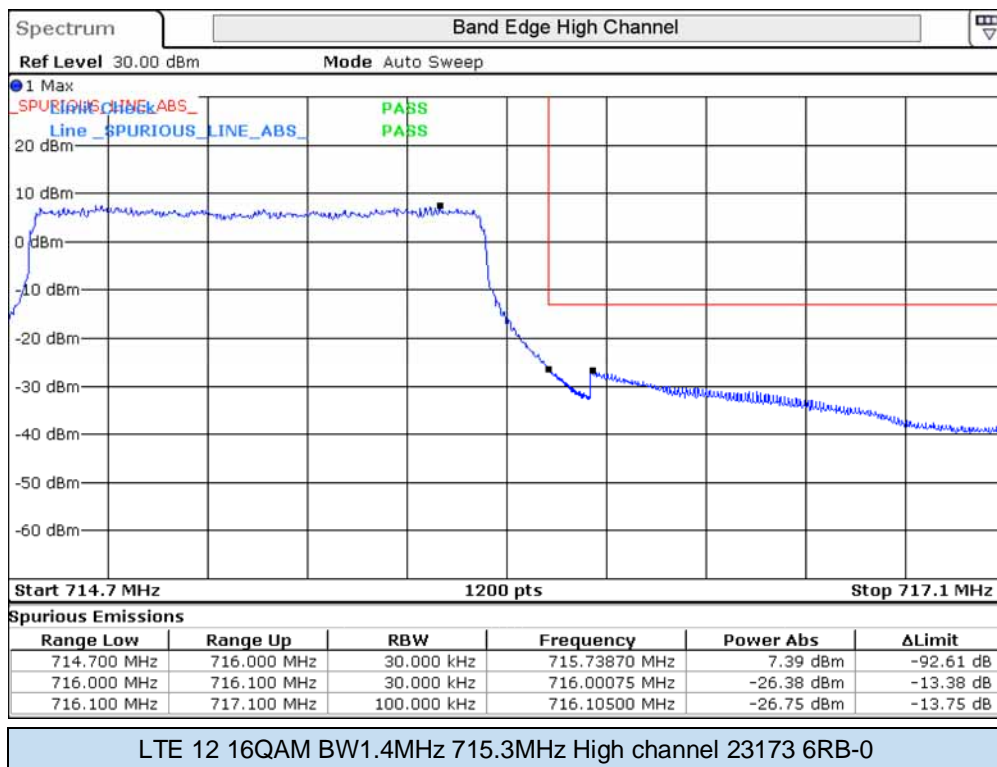
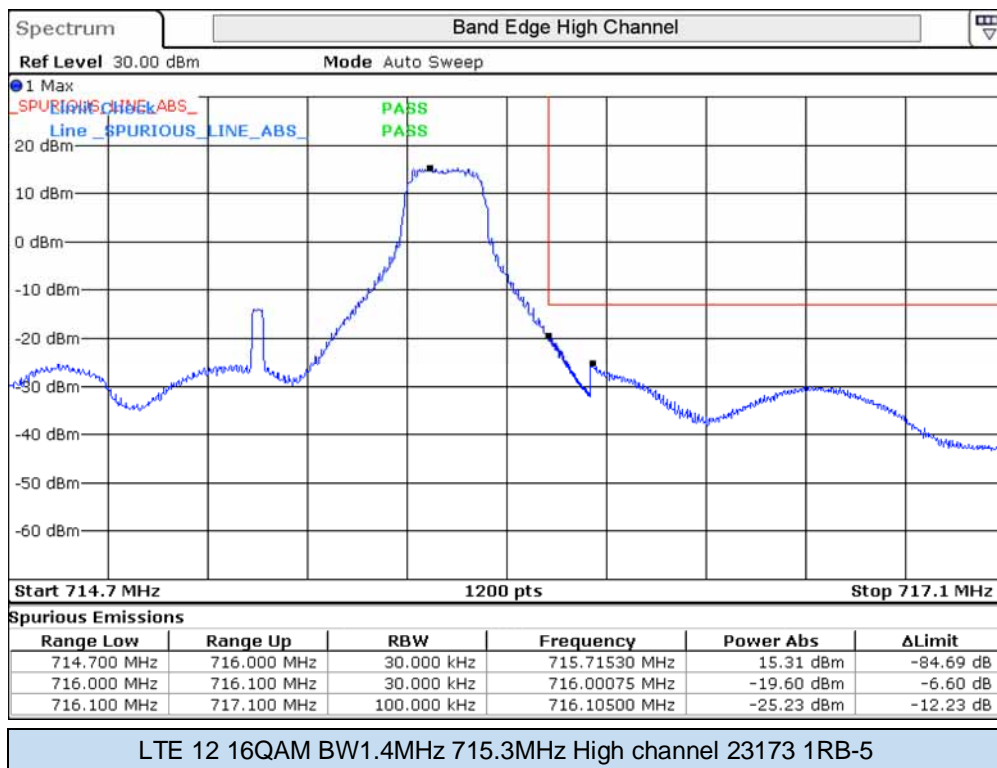
Setup used to measure the transmitted peak power:

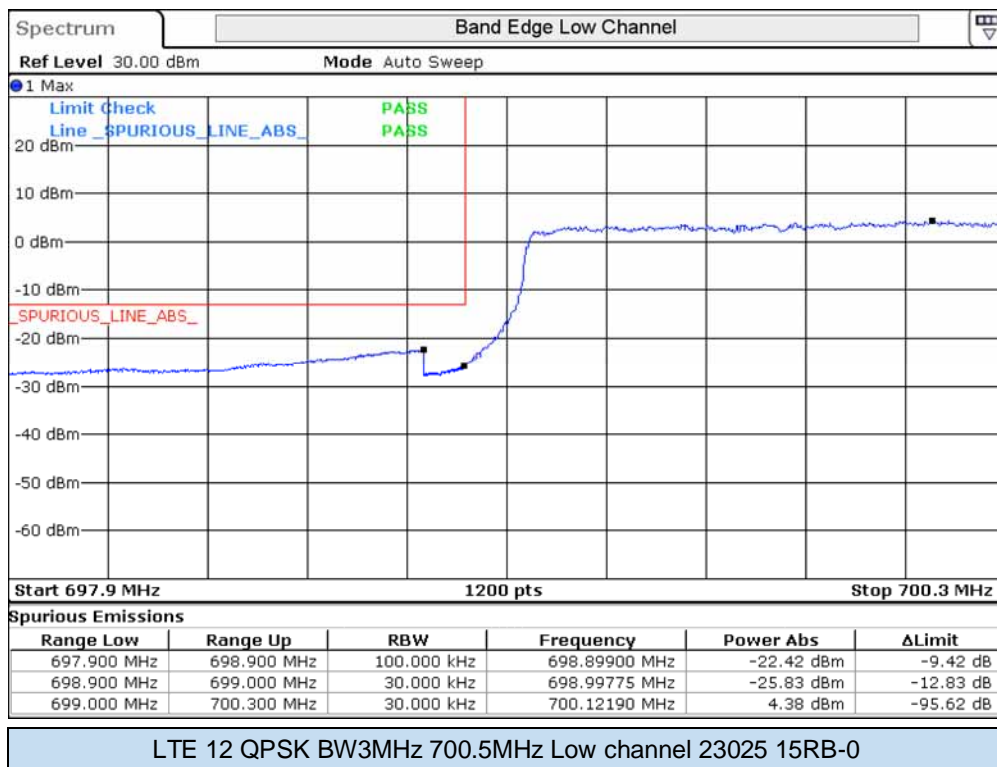
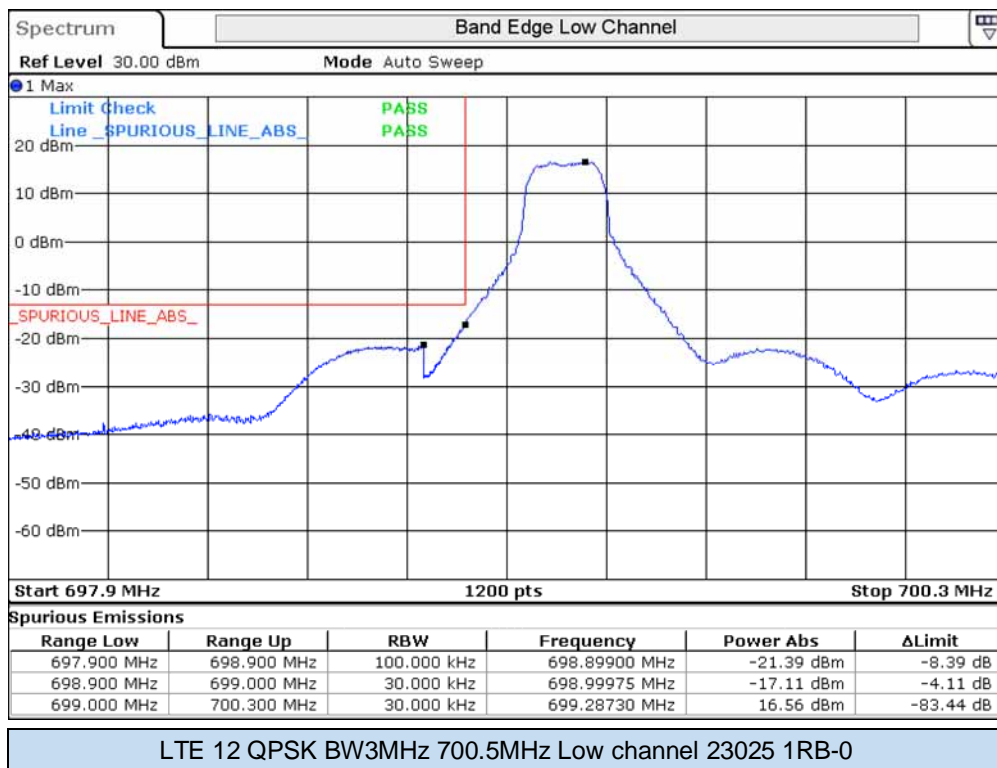


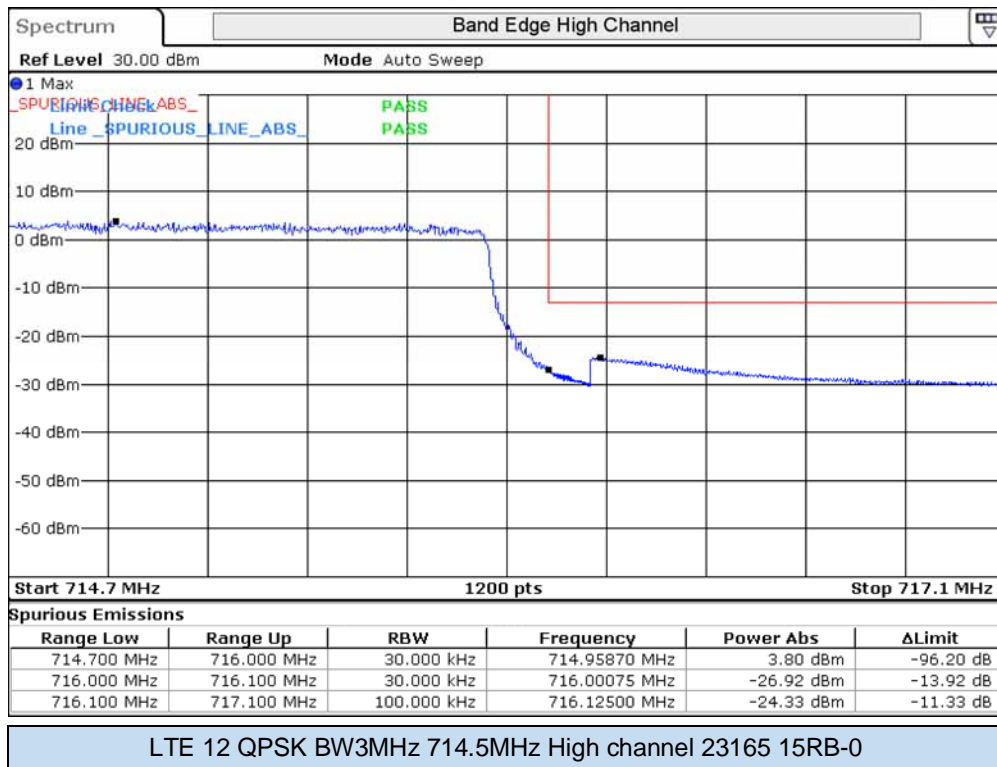
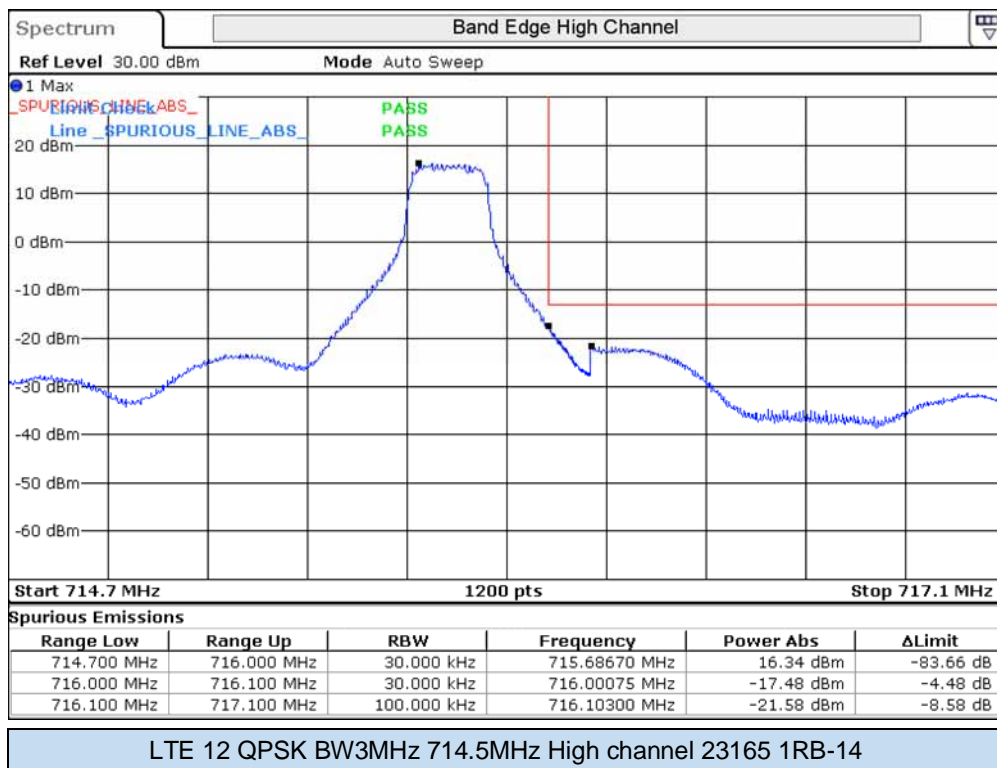
Band edge screenshot results


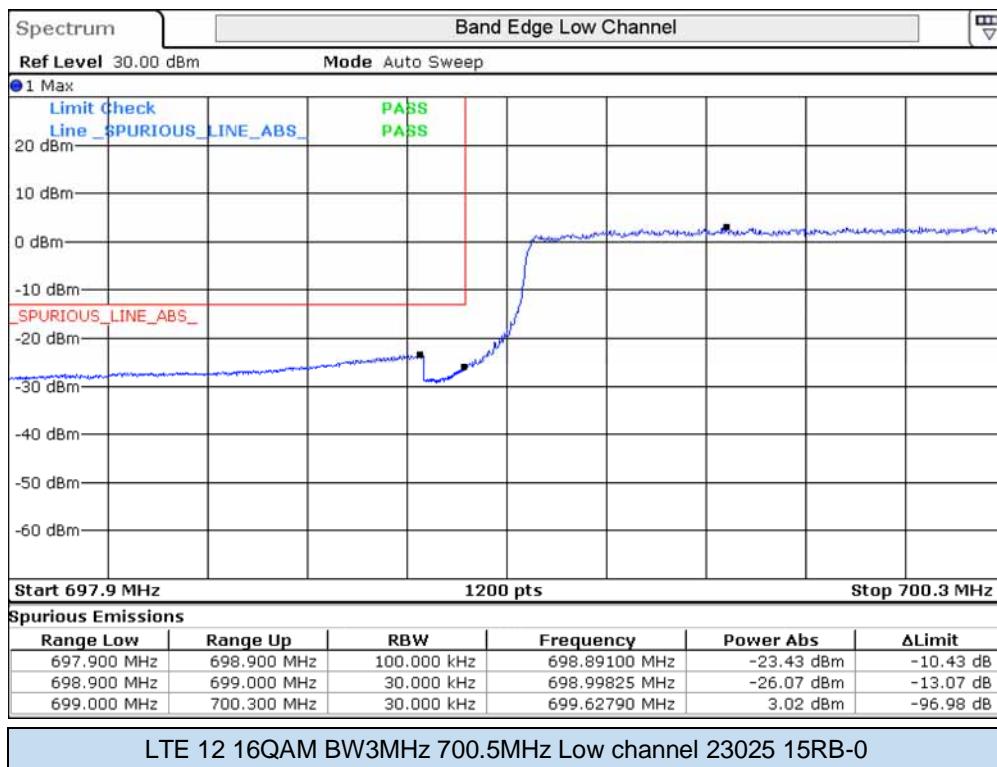
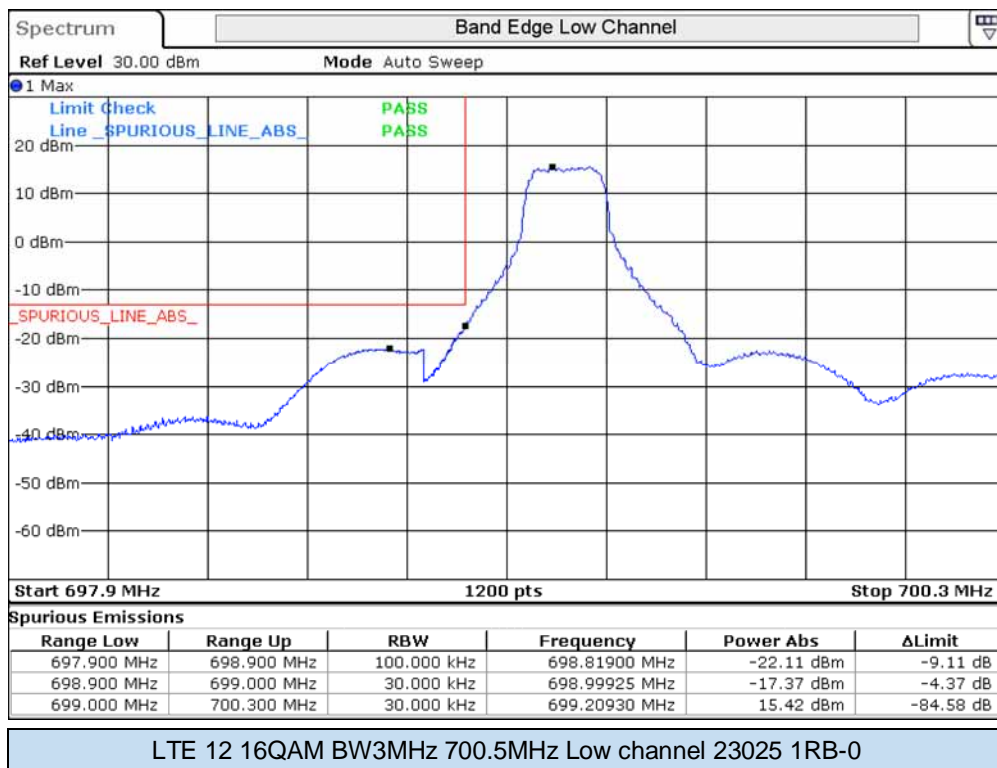


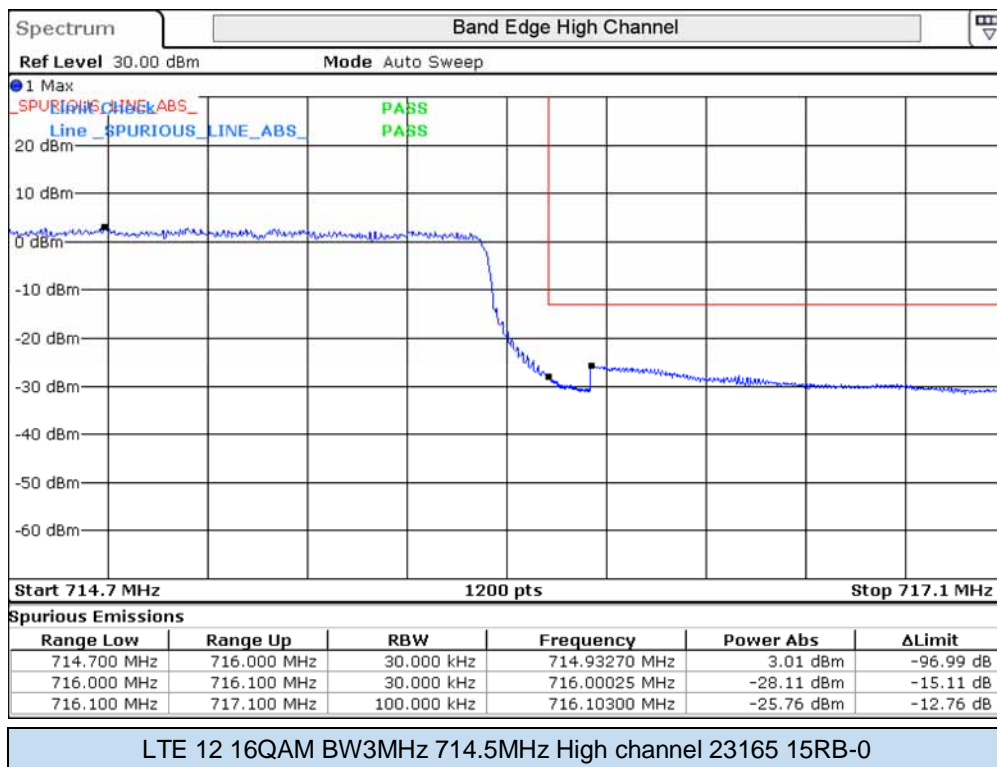
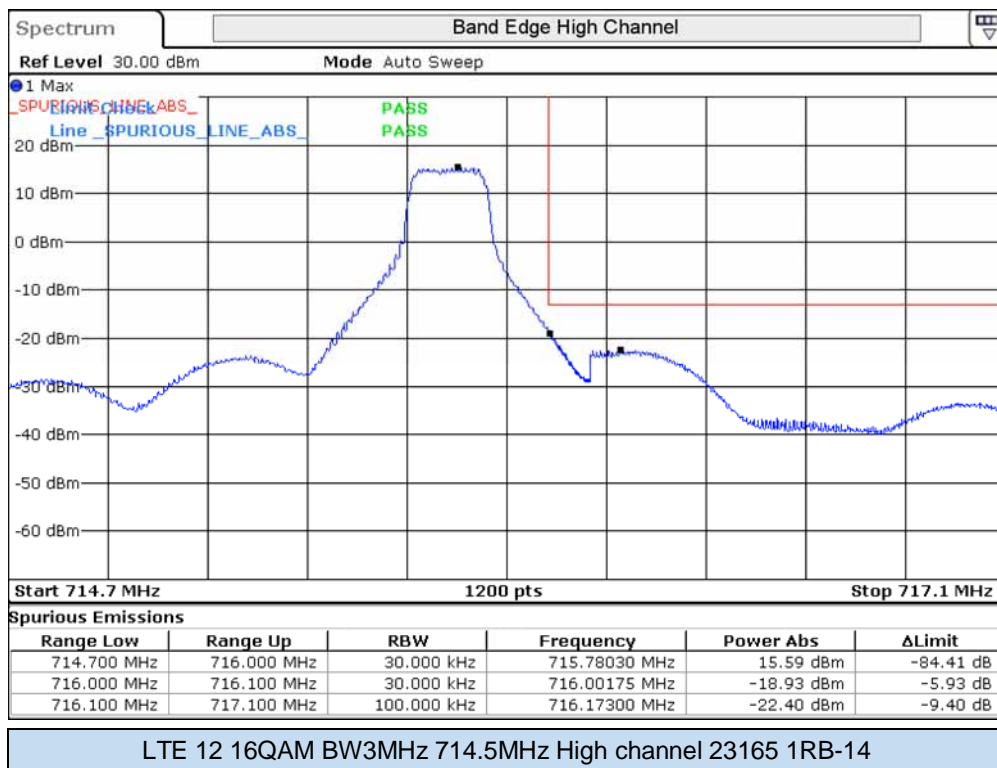


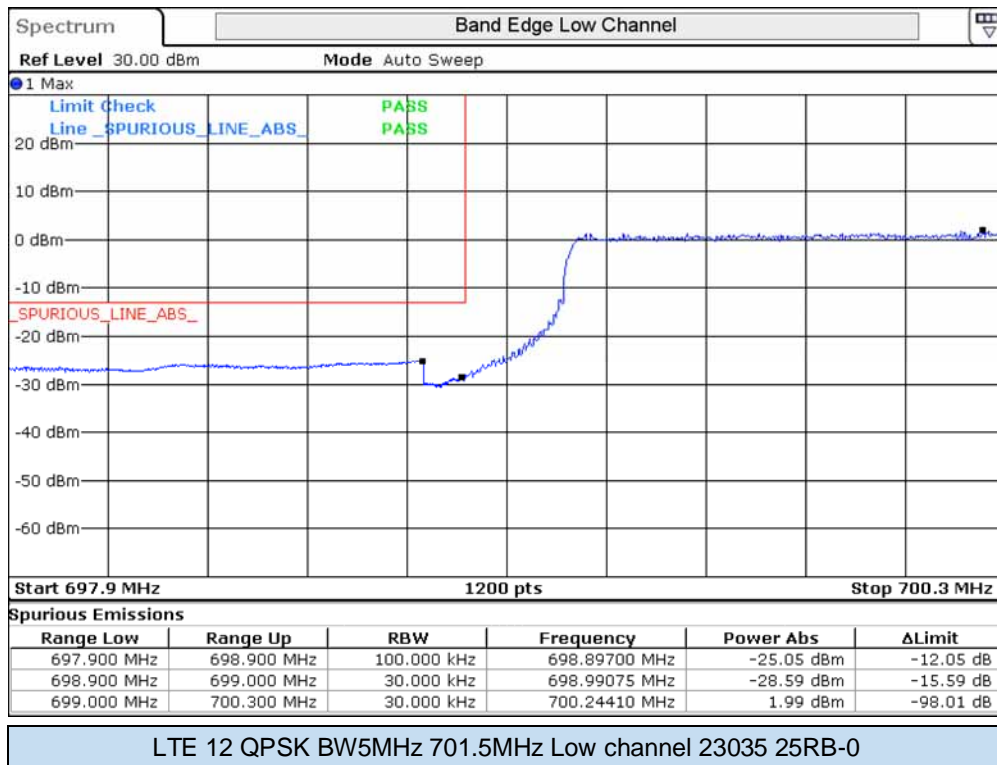
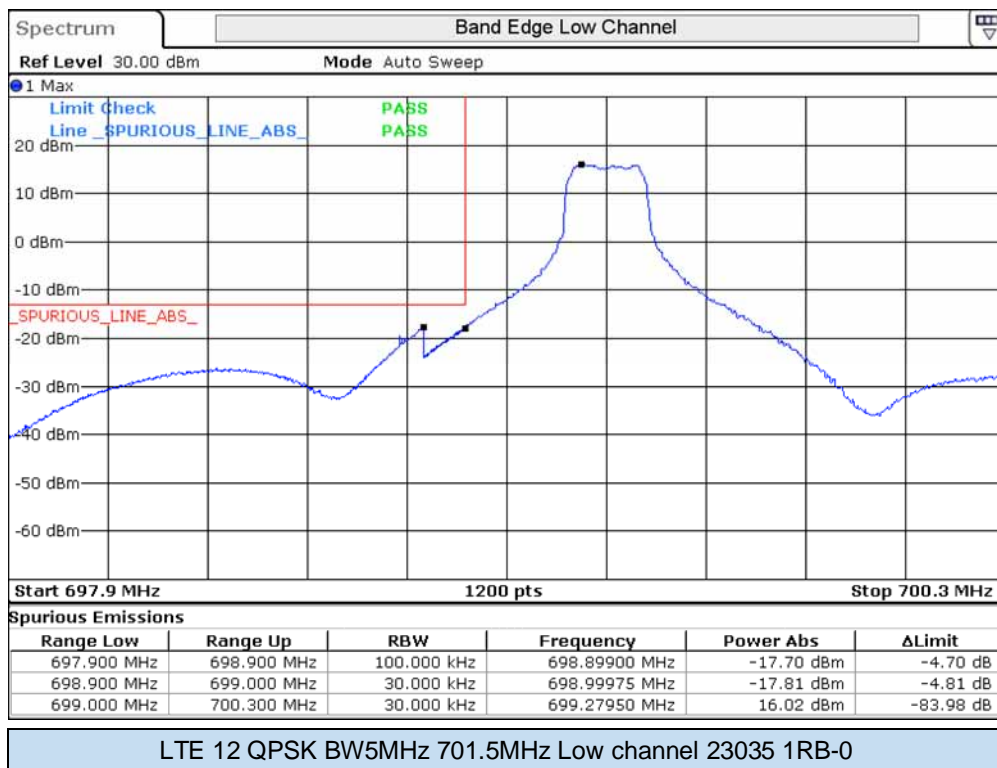


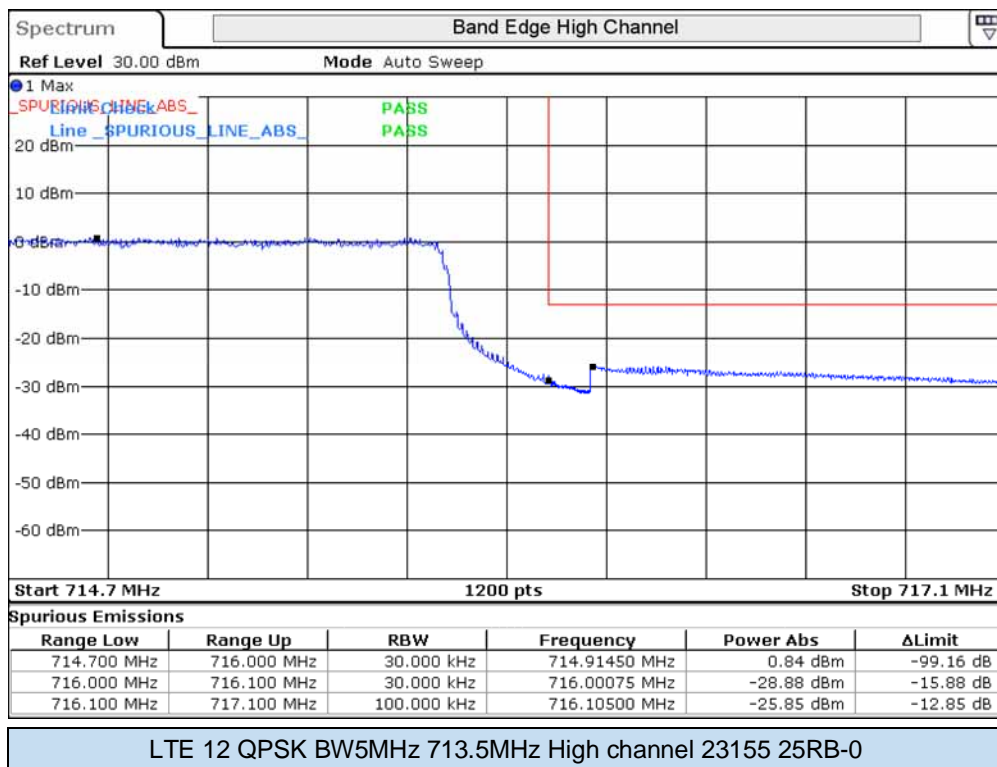
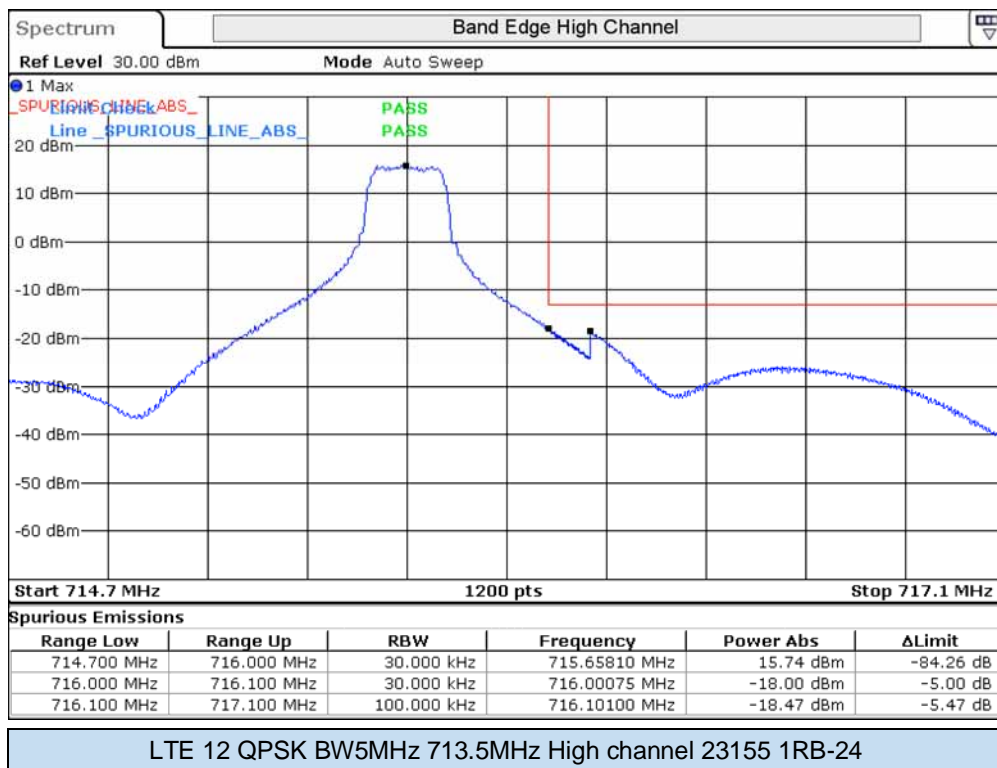


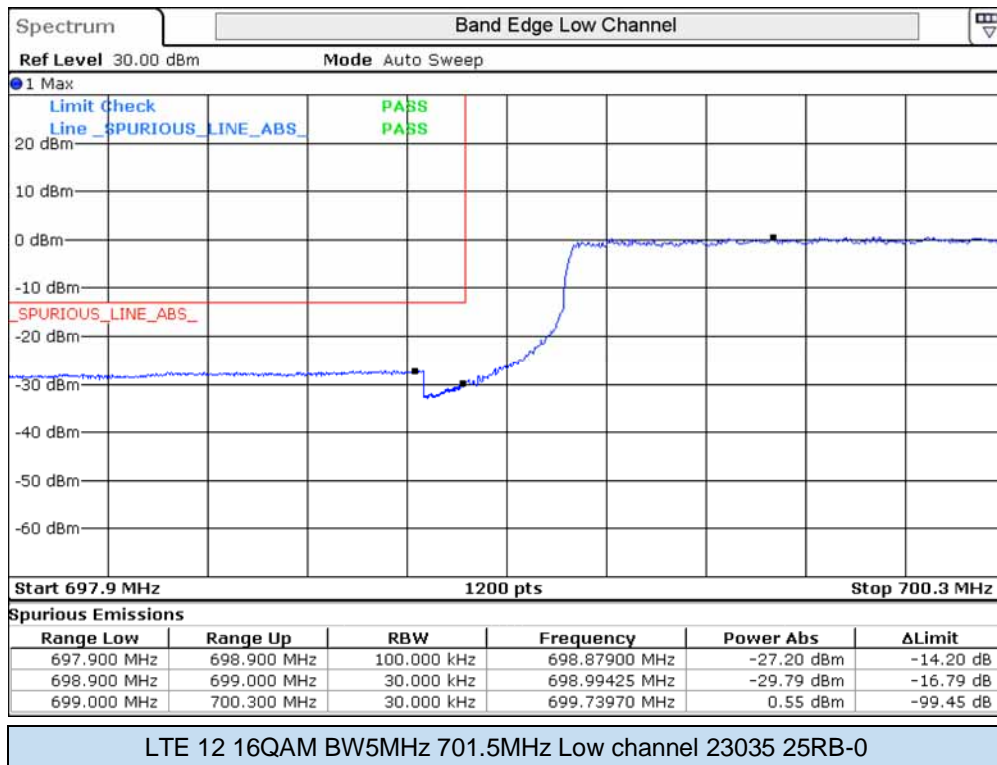
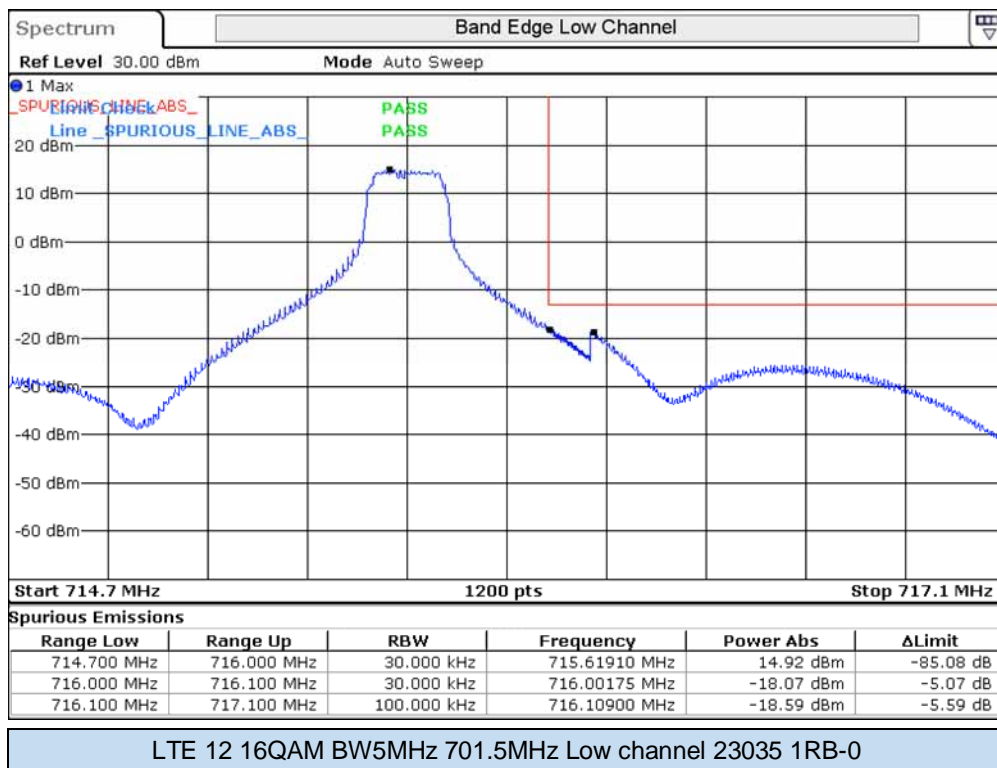


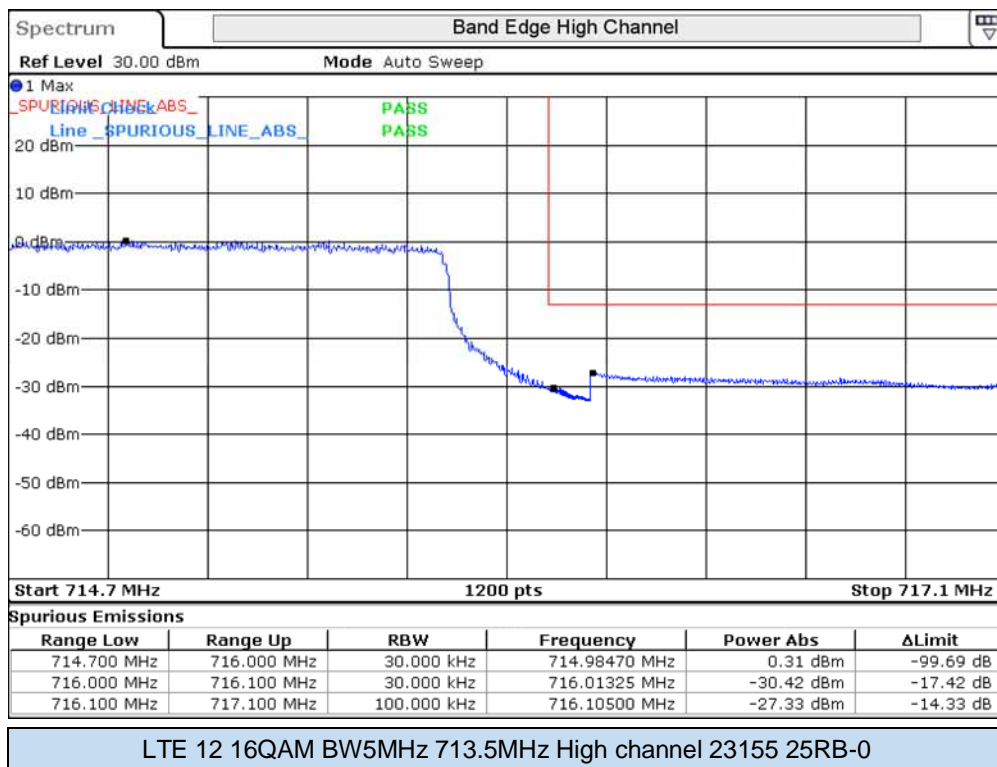
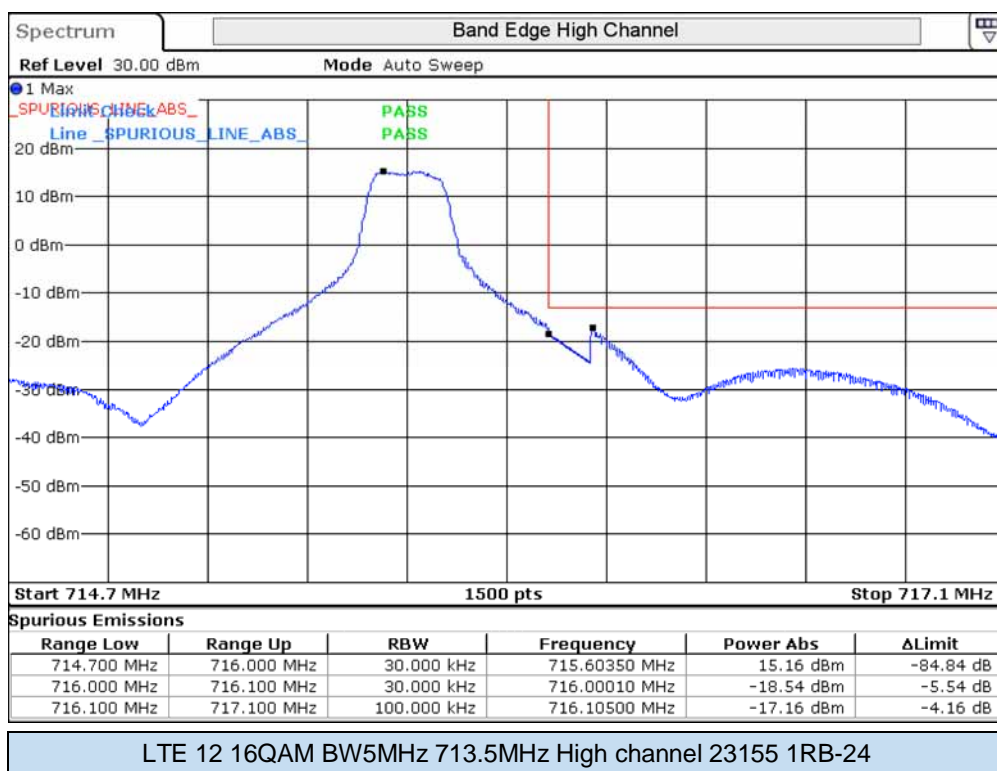


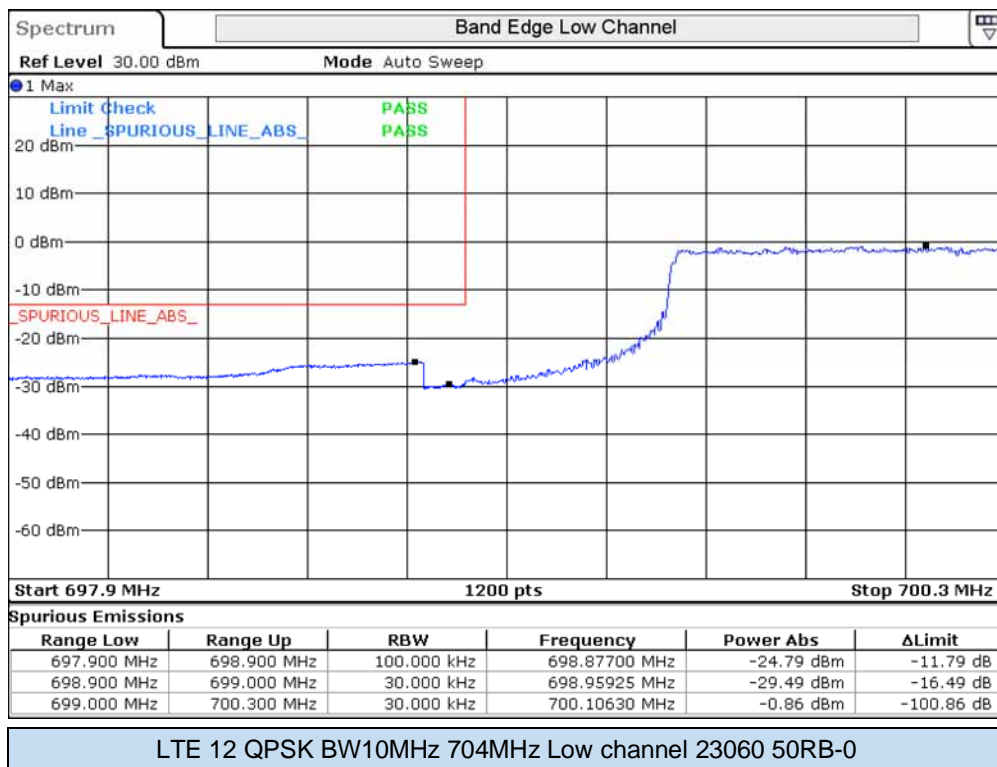
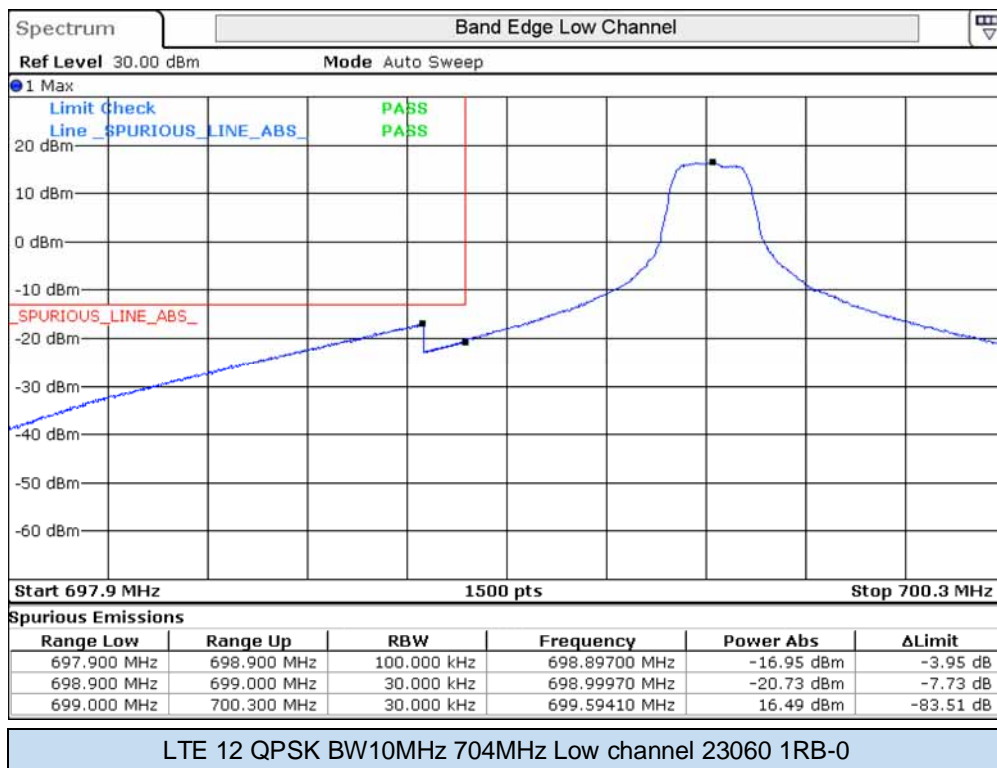


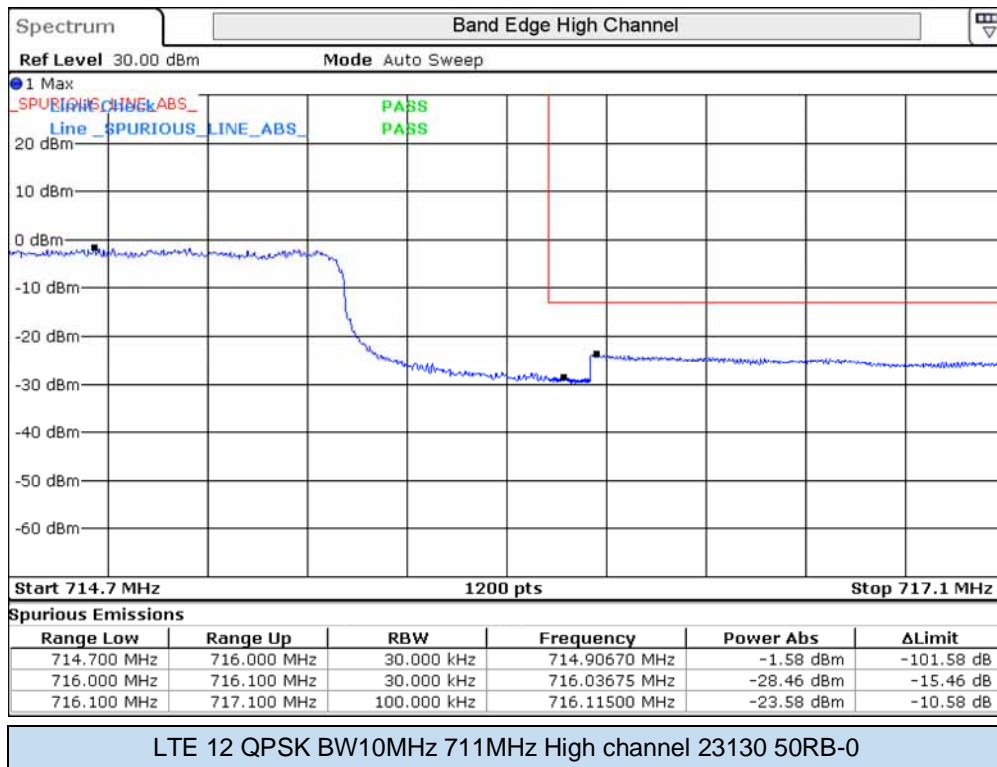
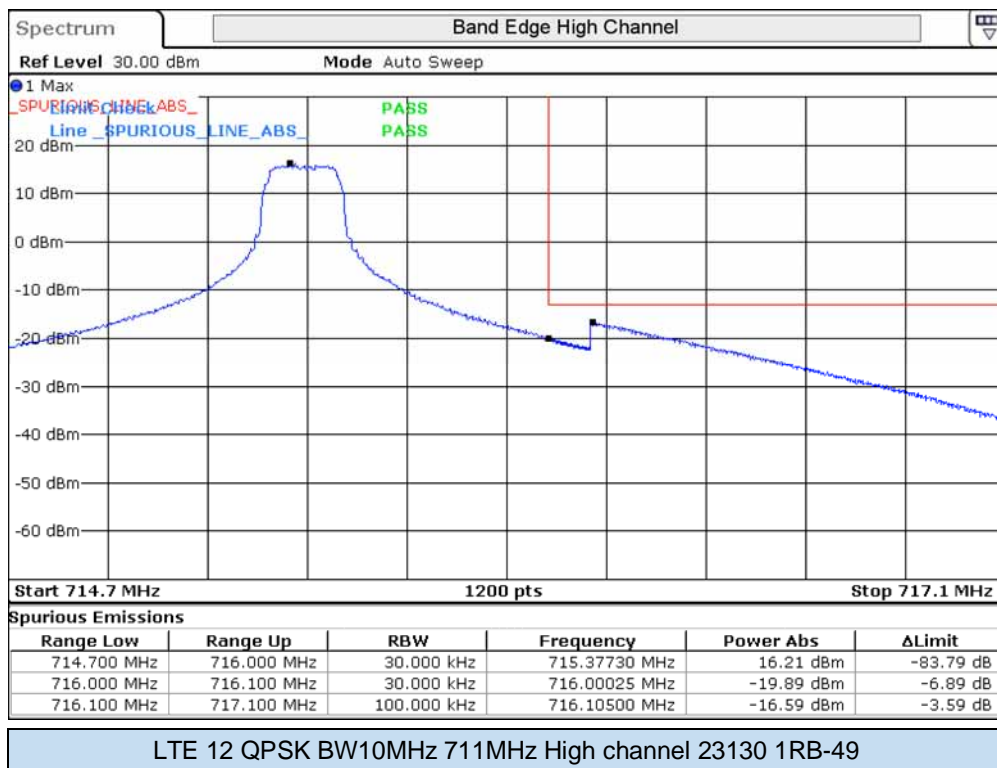


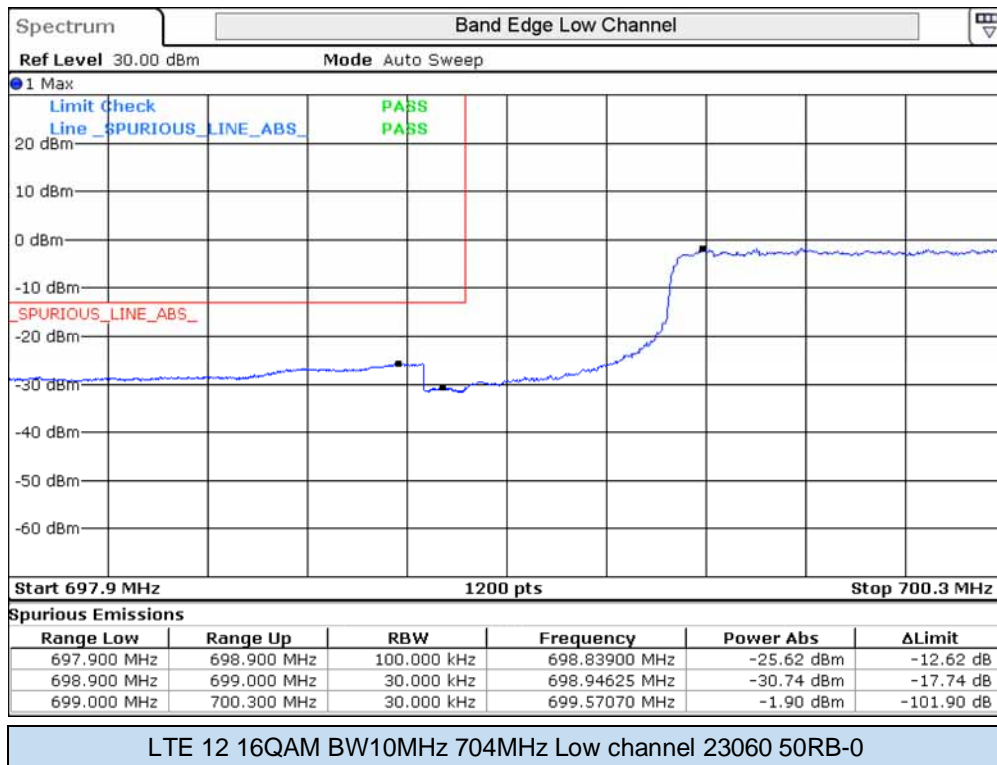
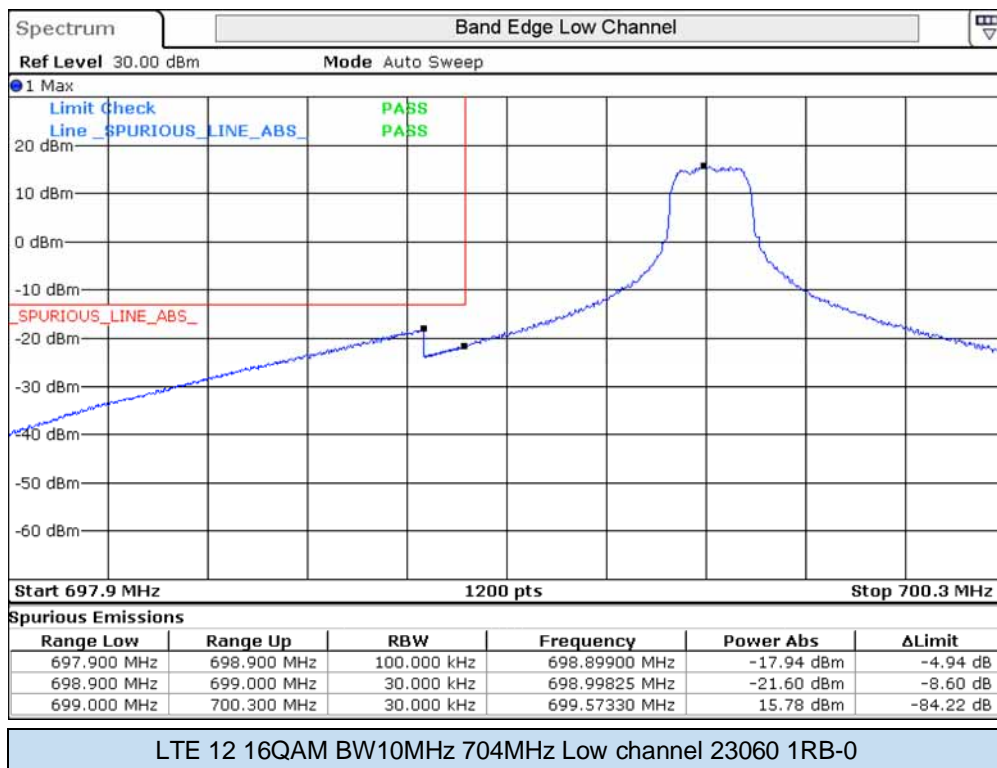


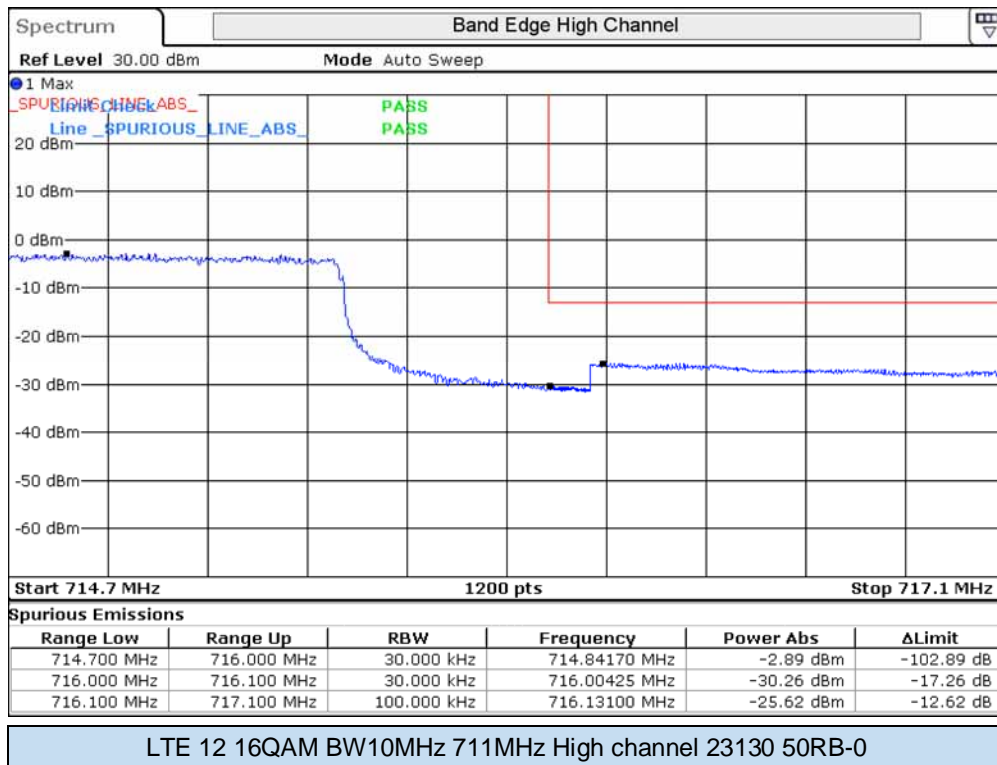
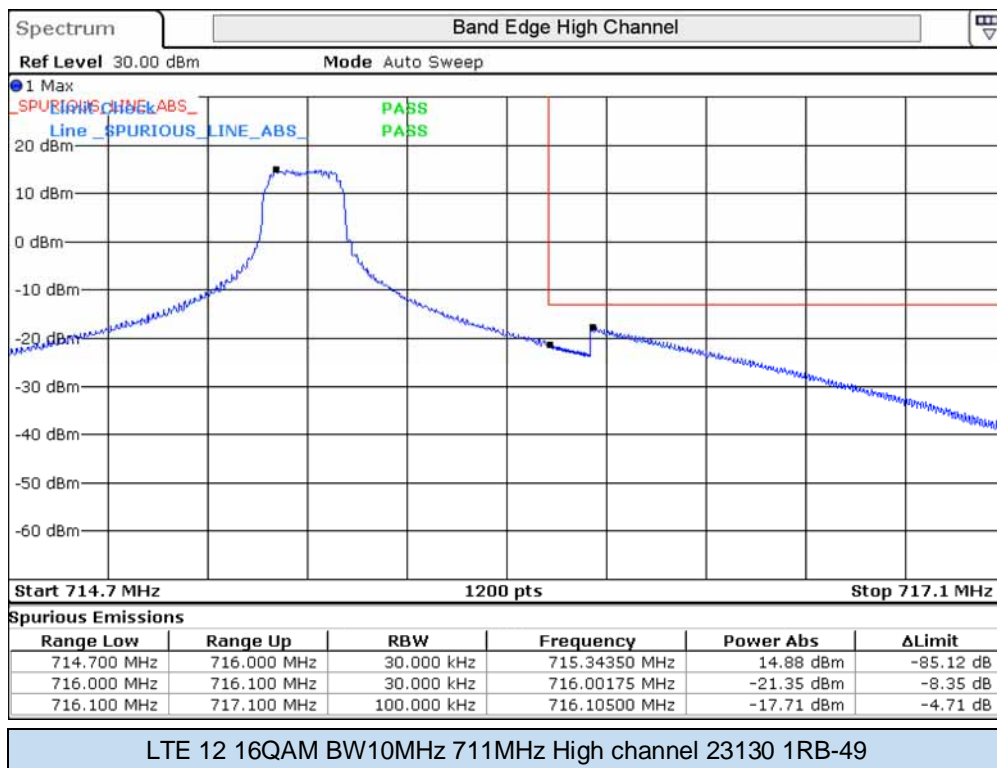


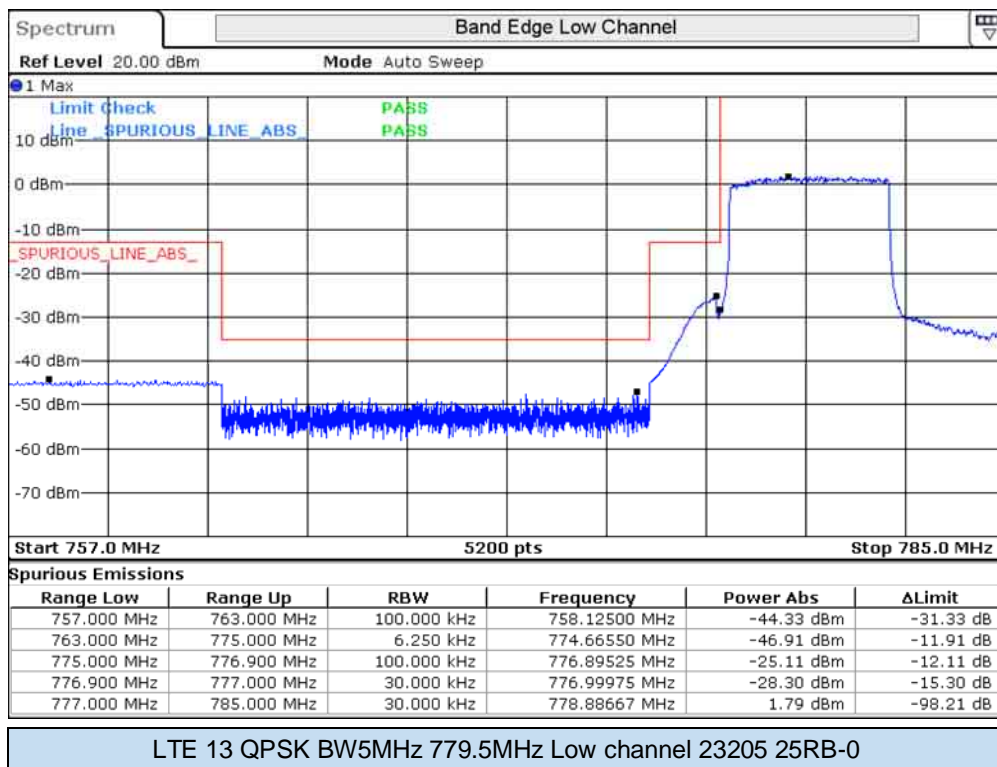
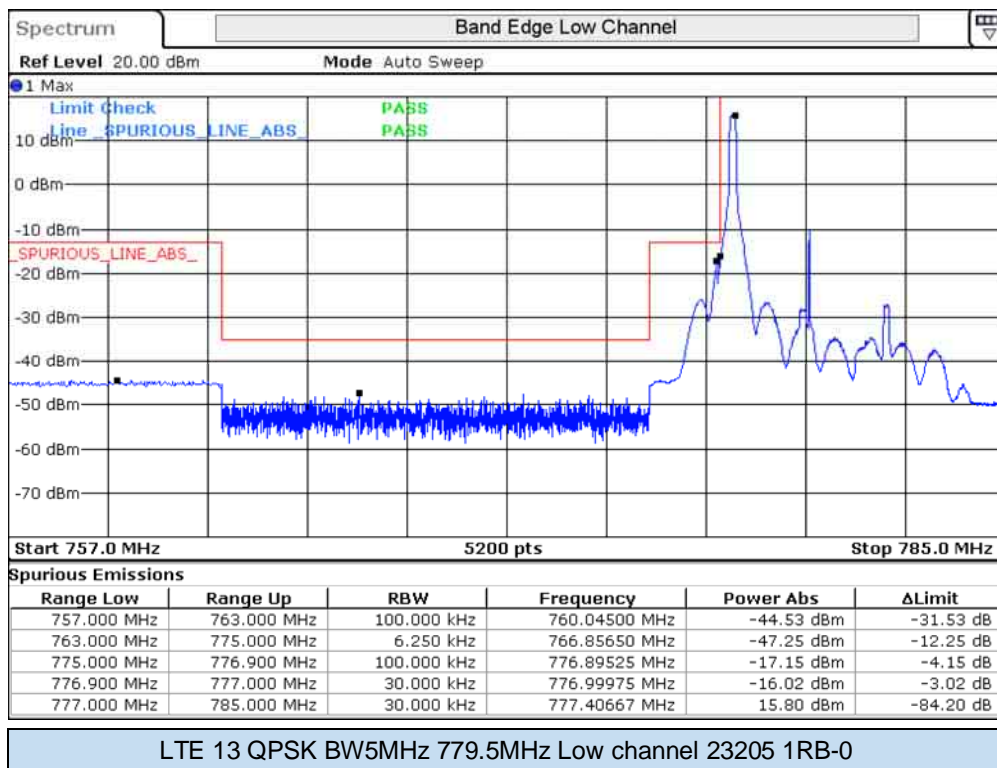


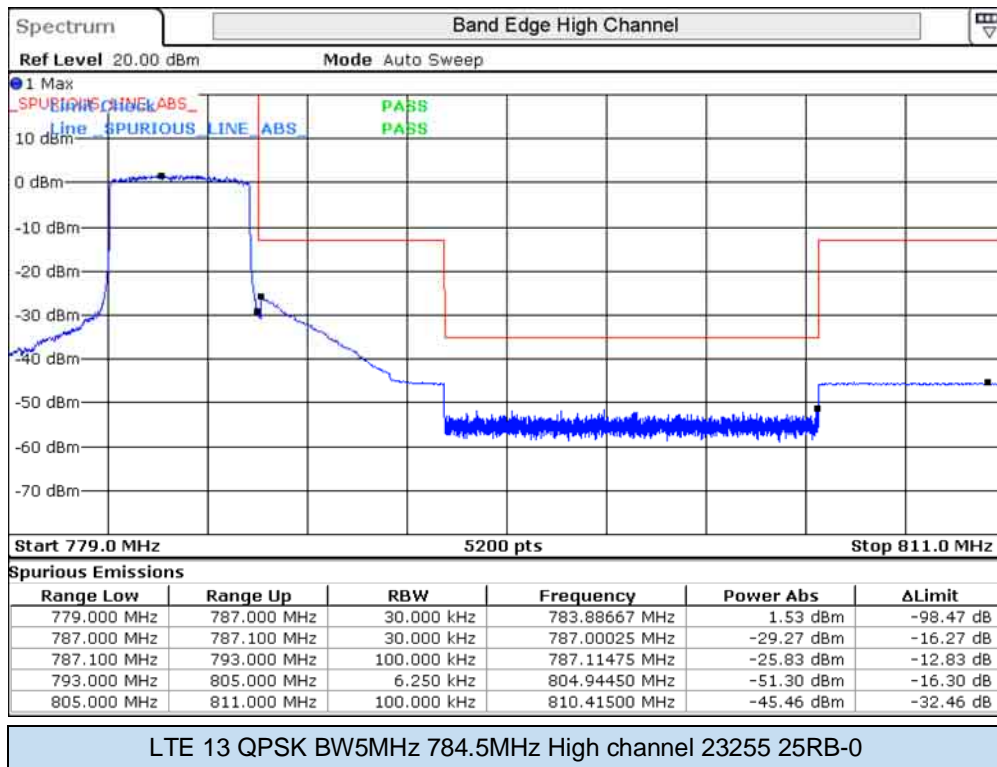
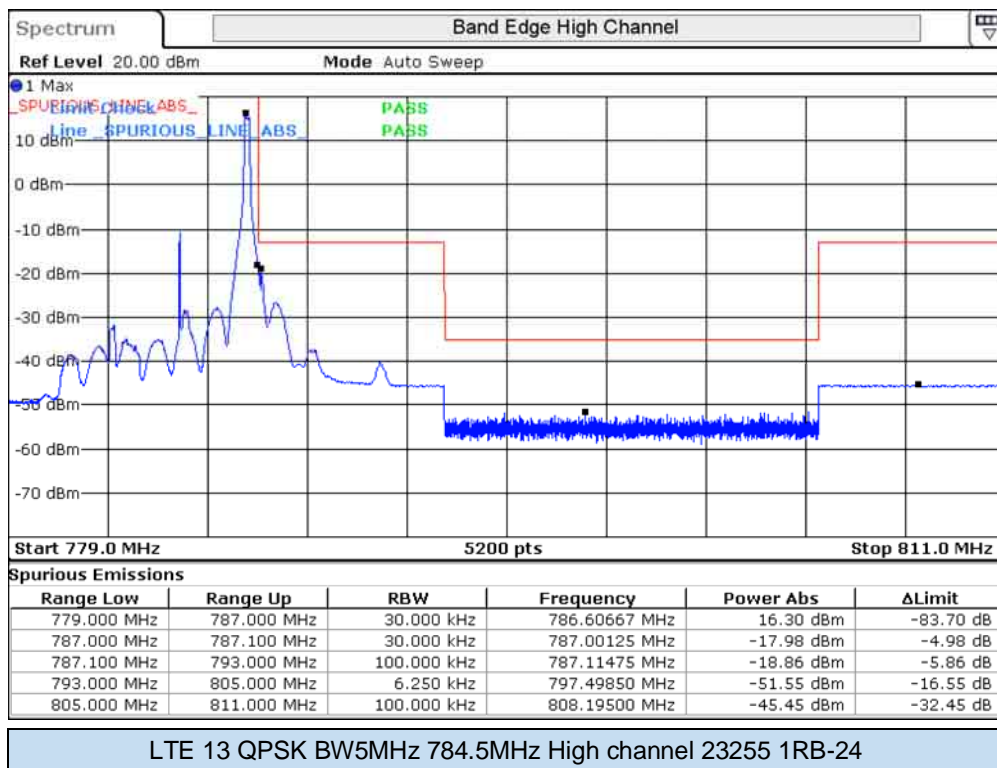


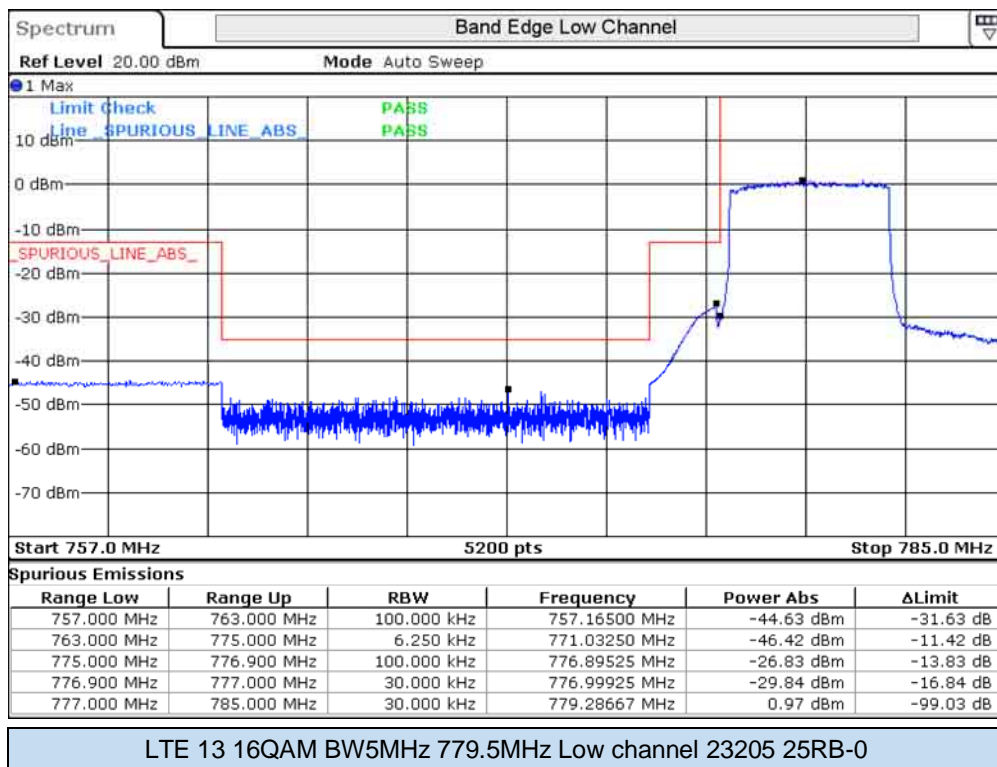
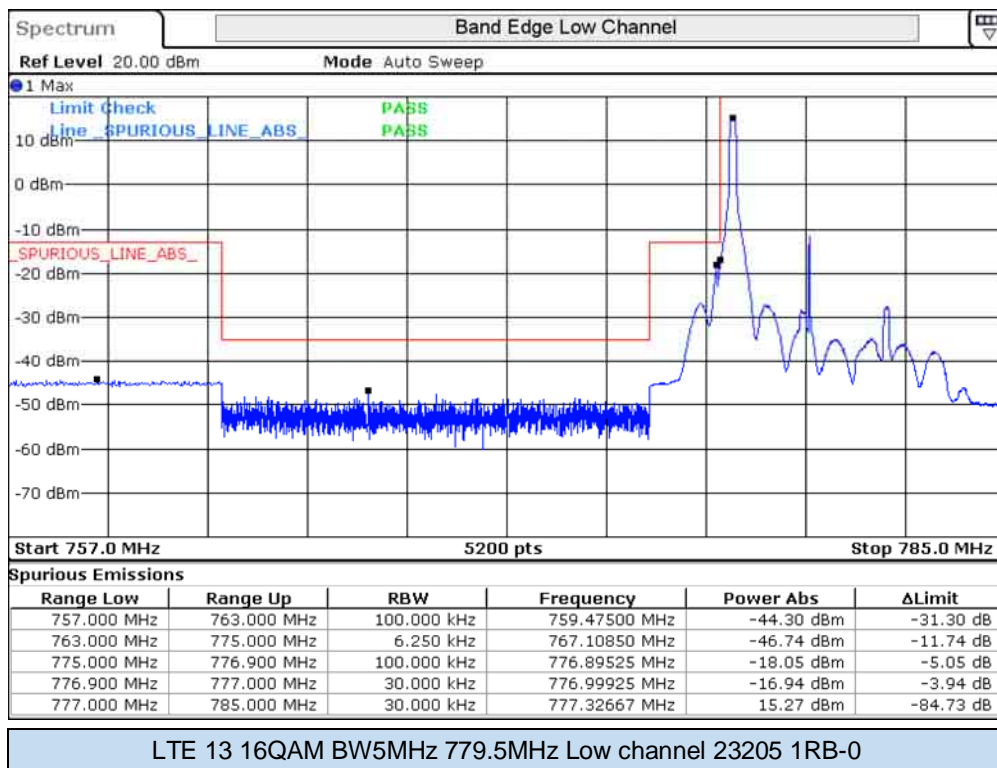


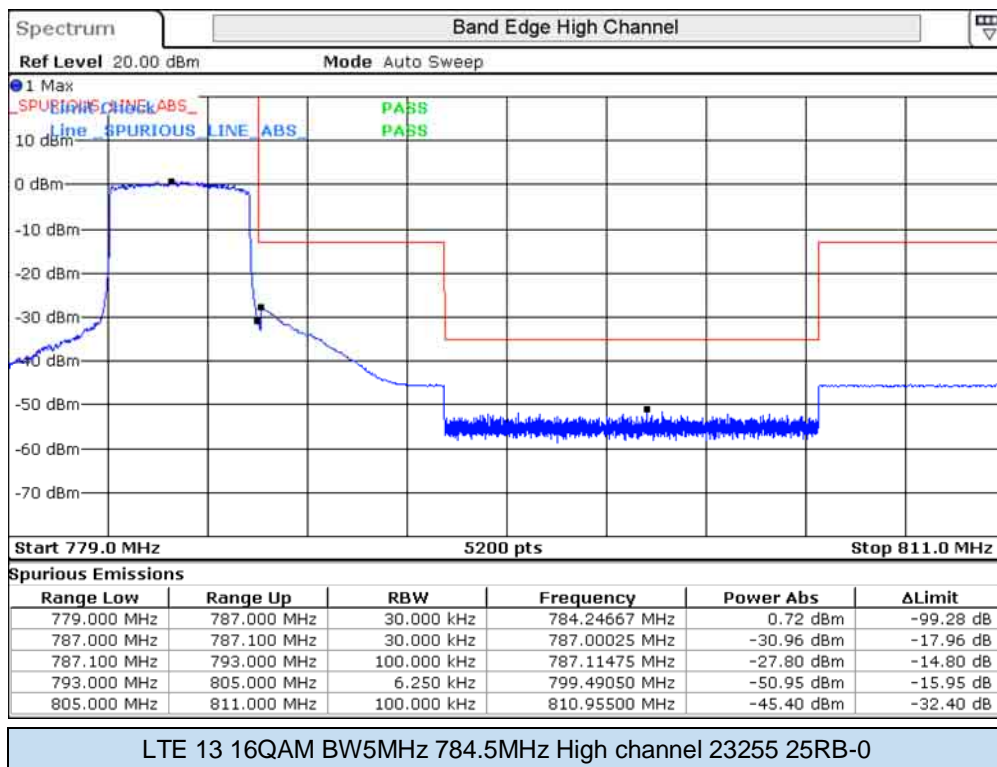
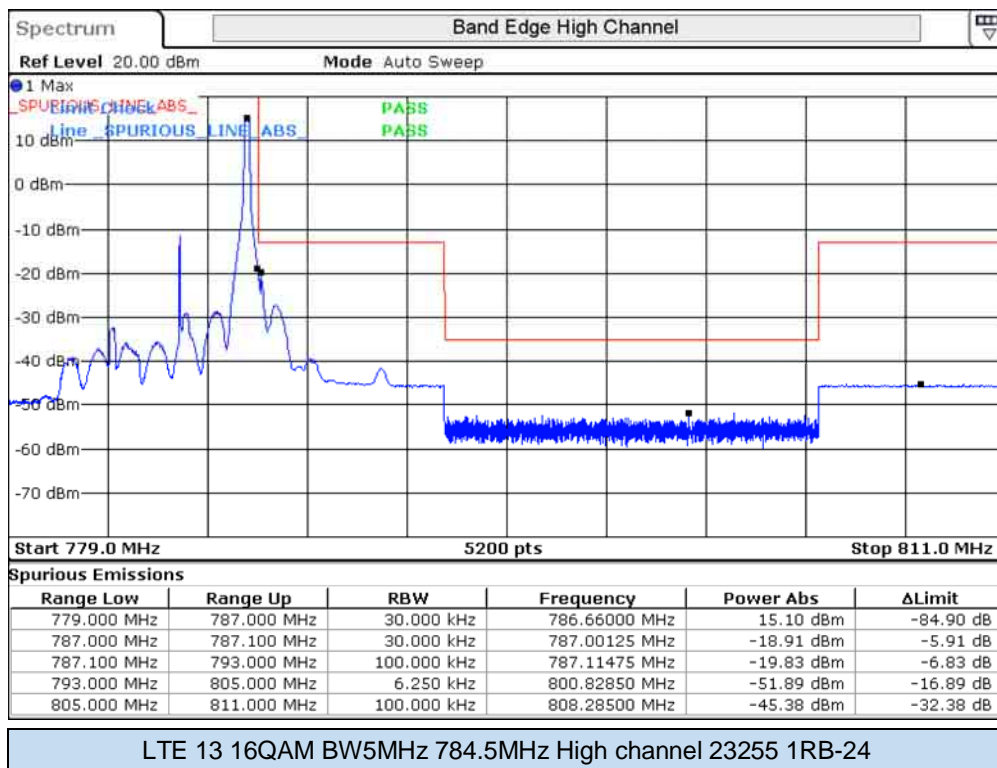


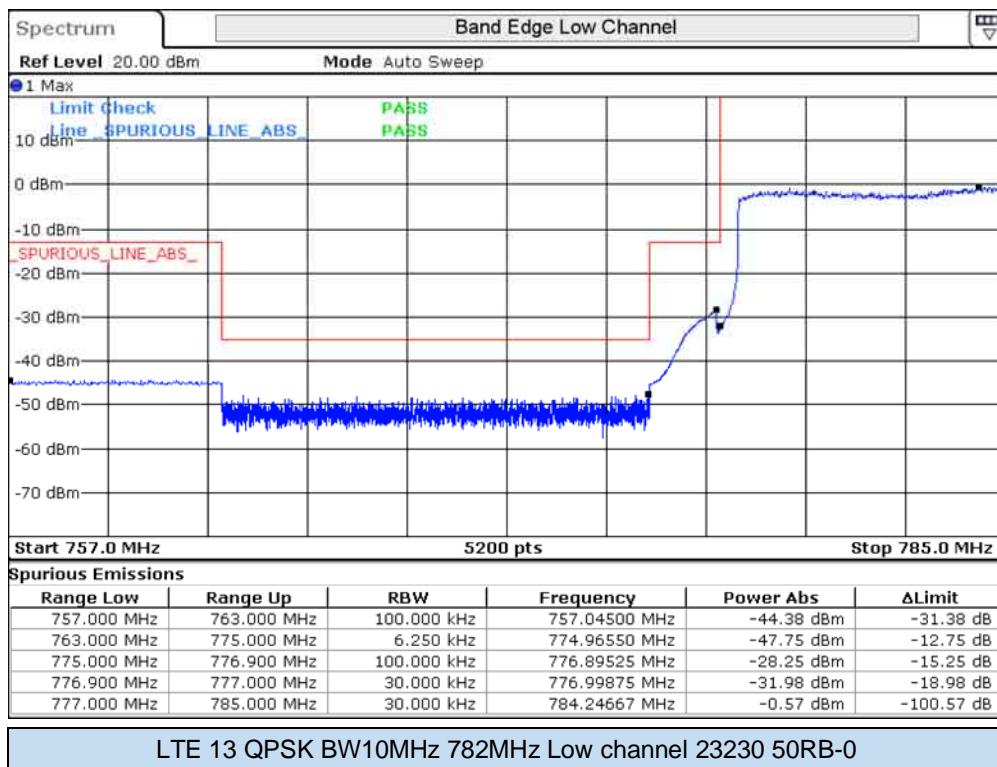
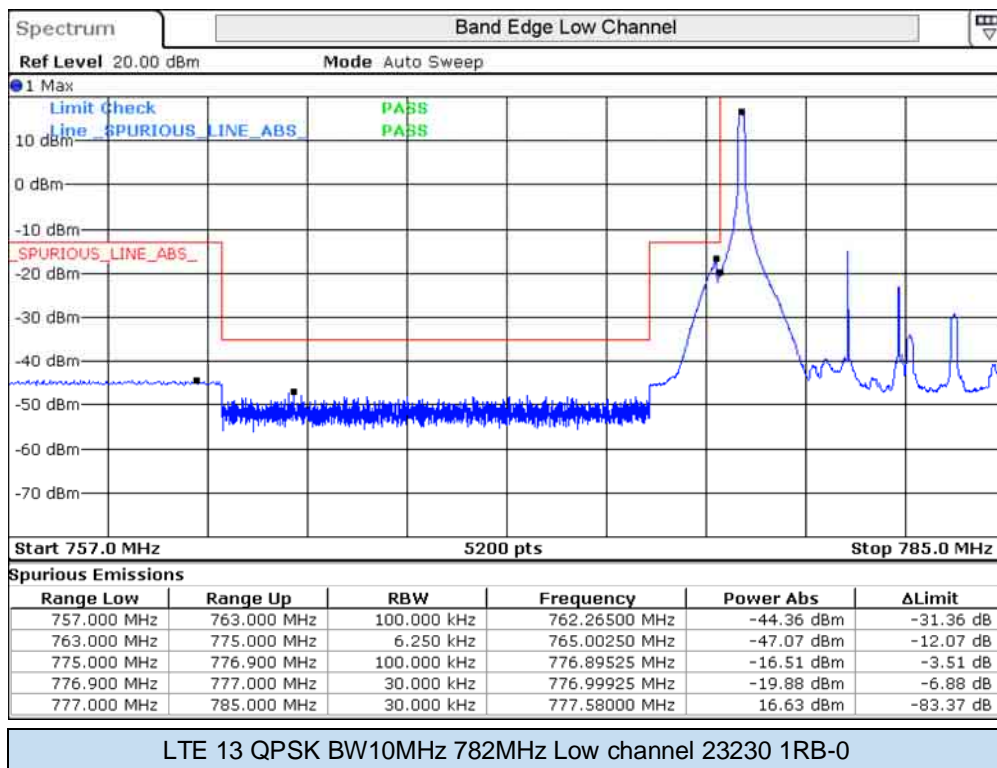


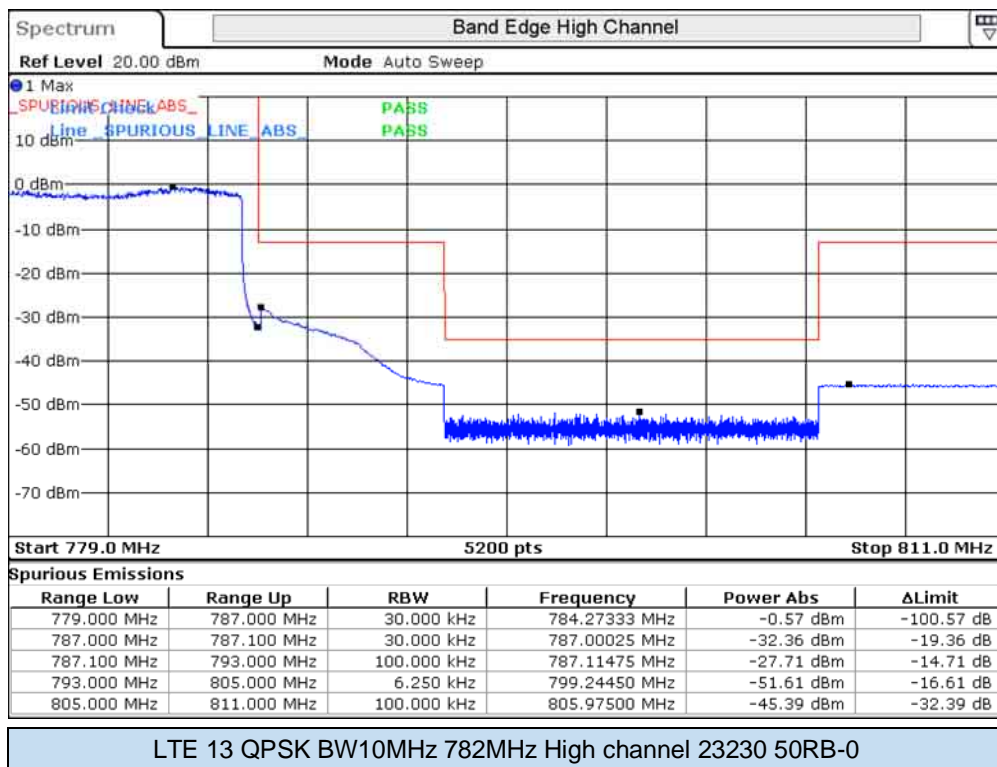
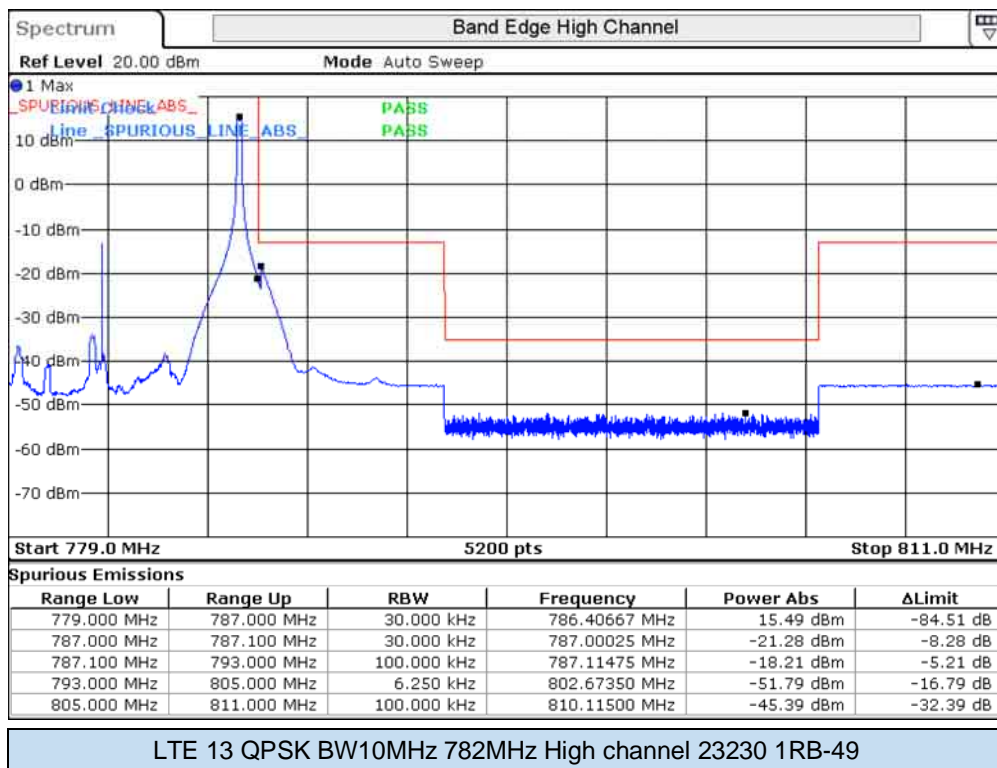


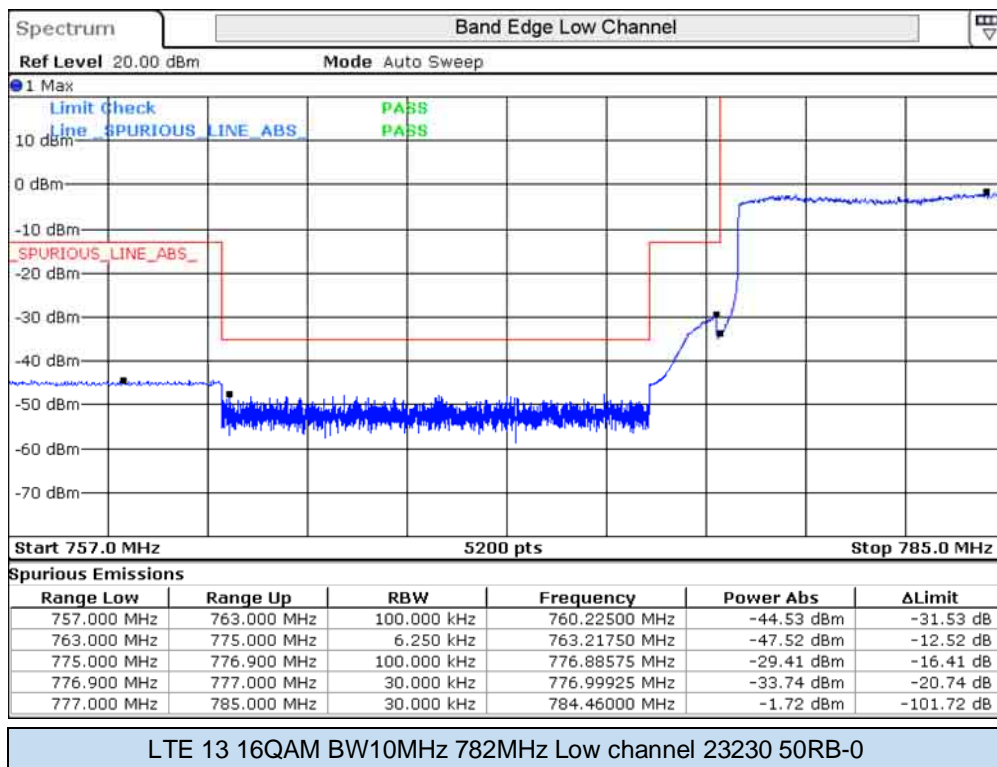
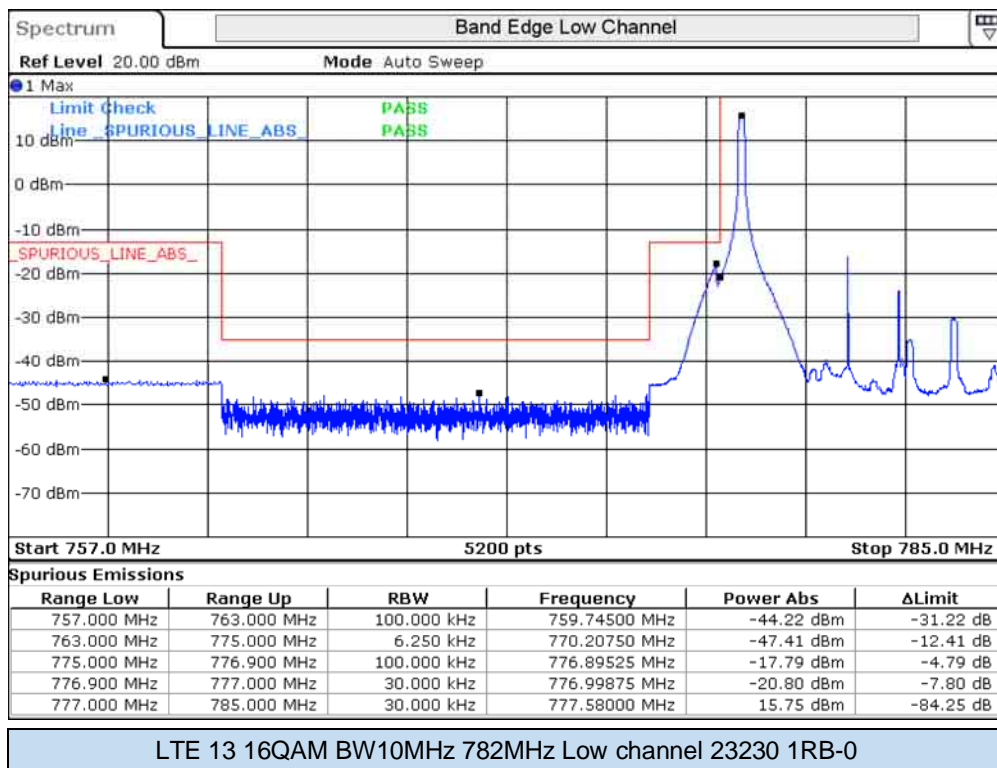


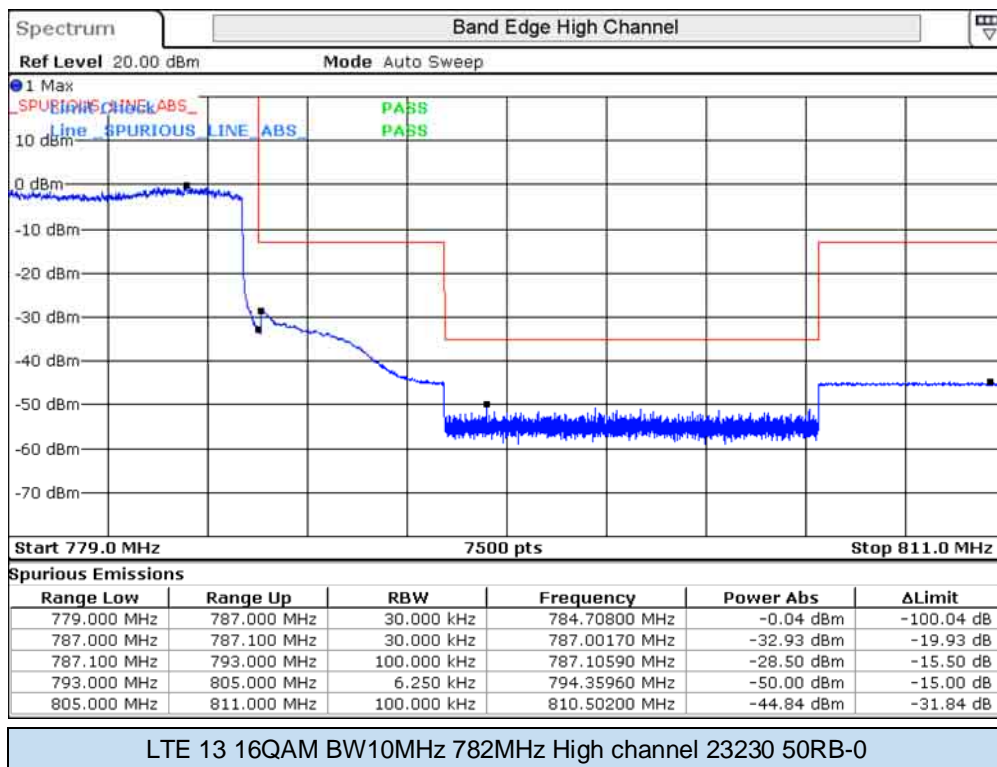
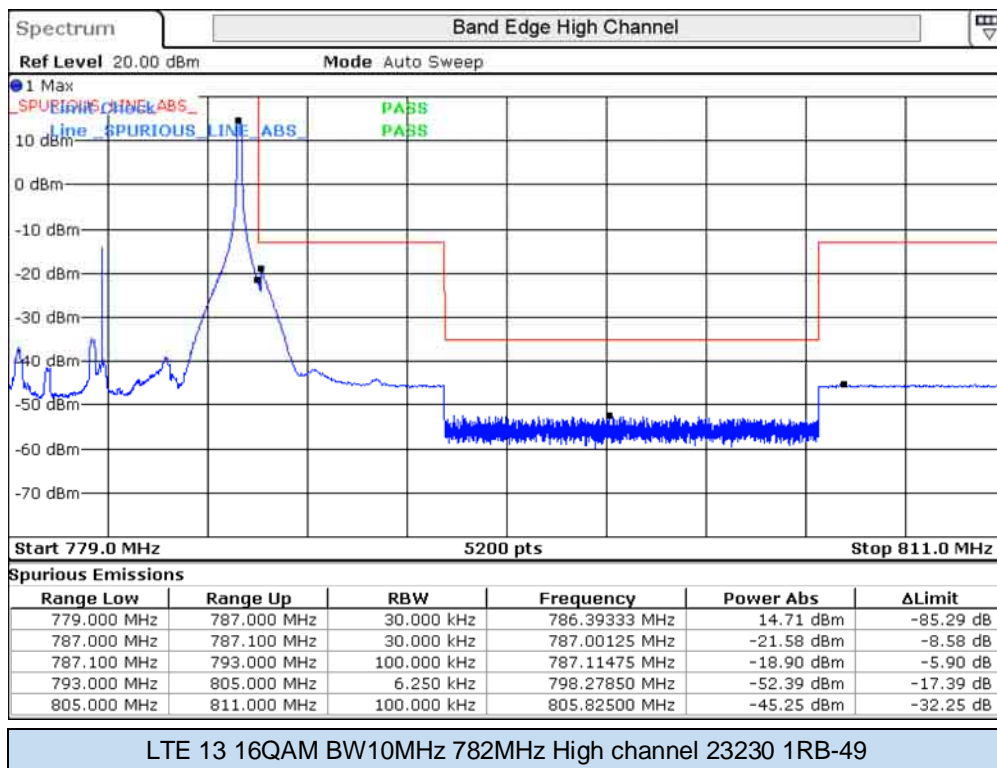


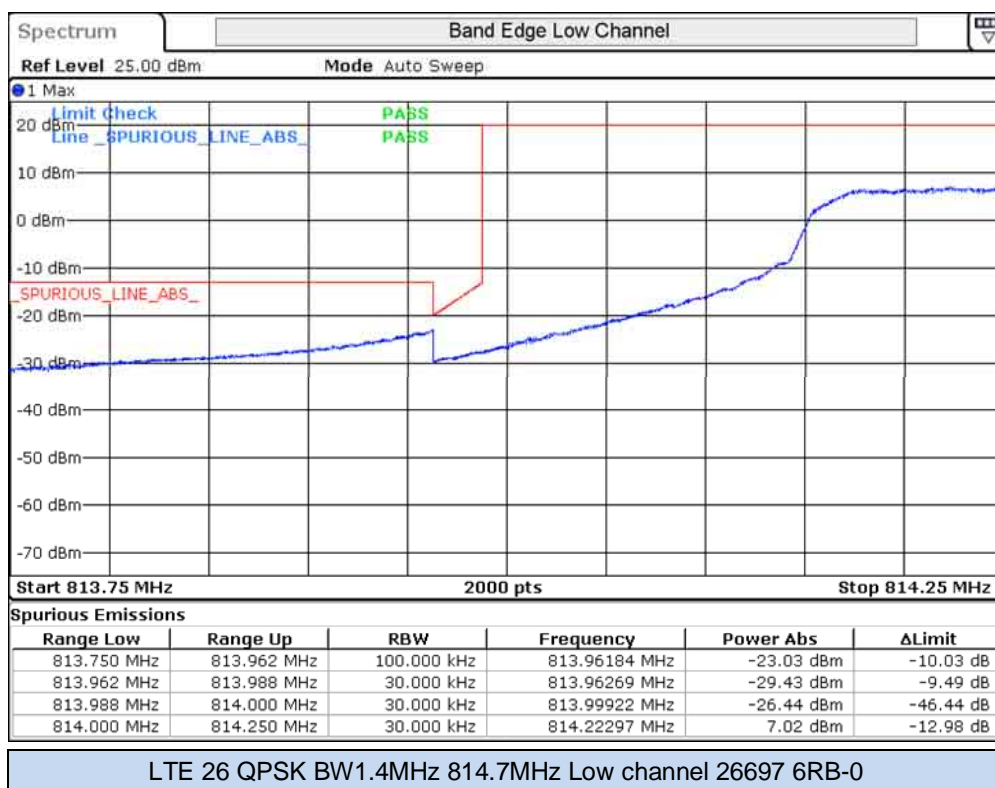
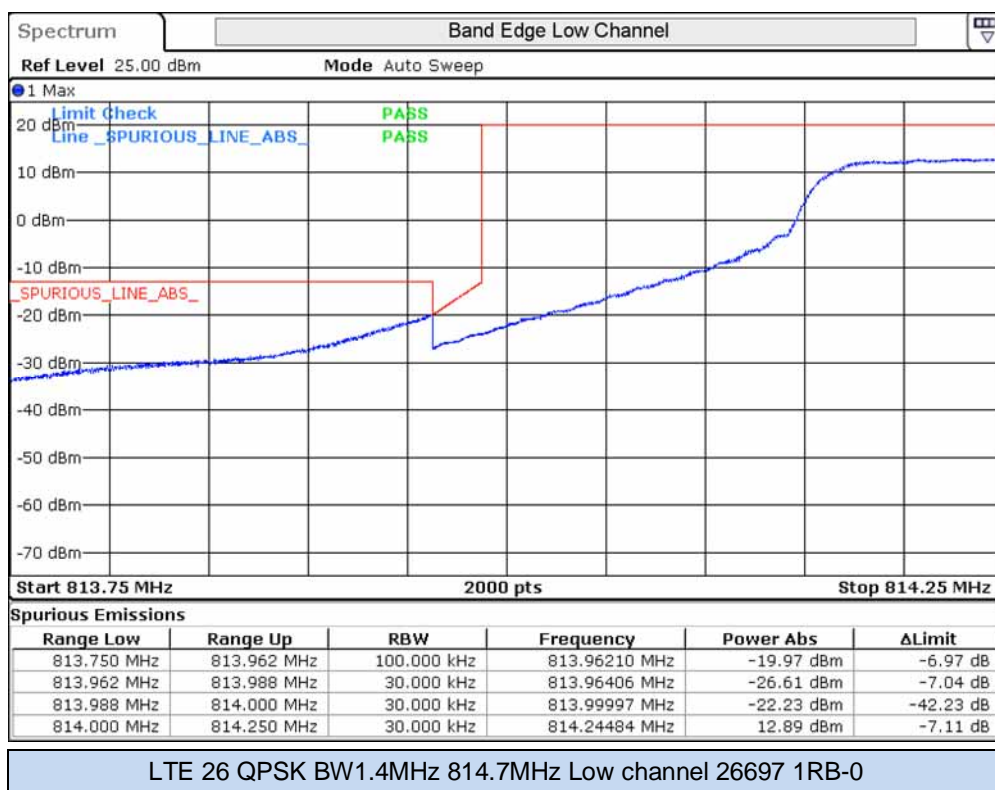


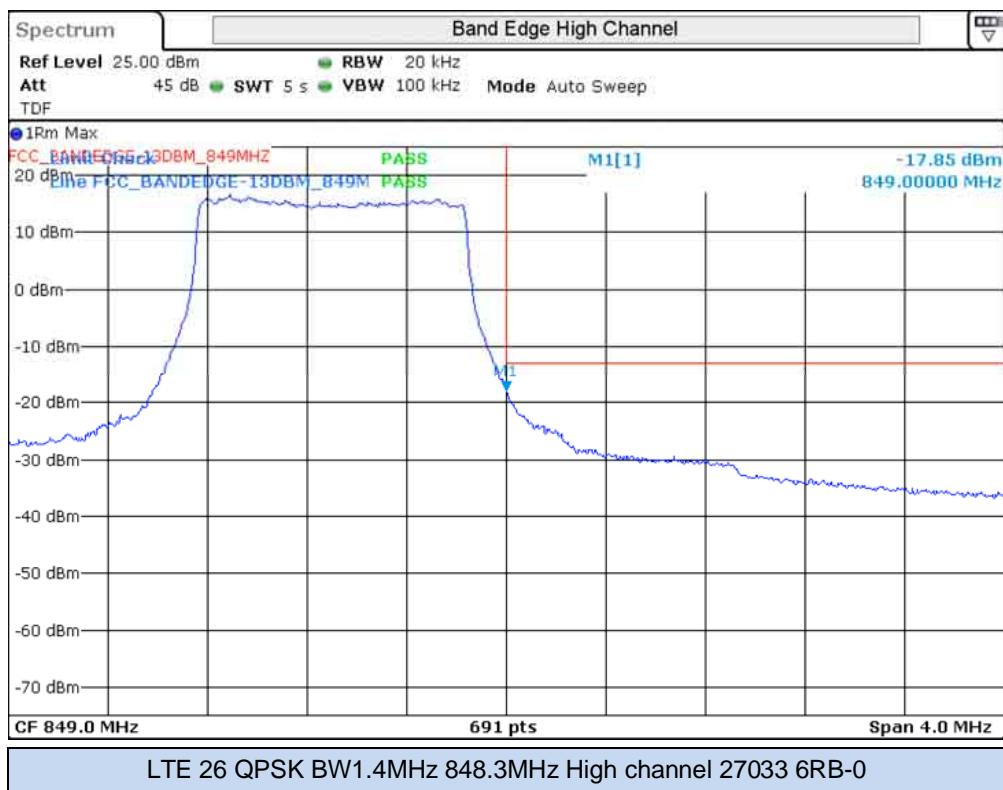
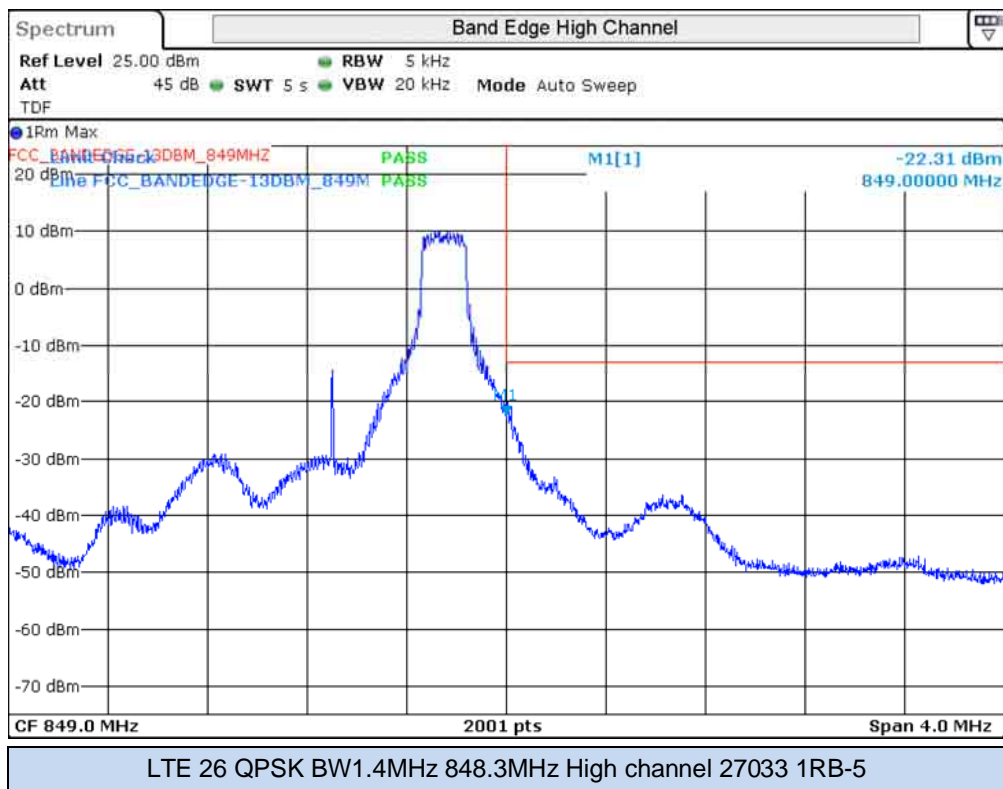


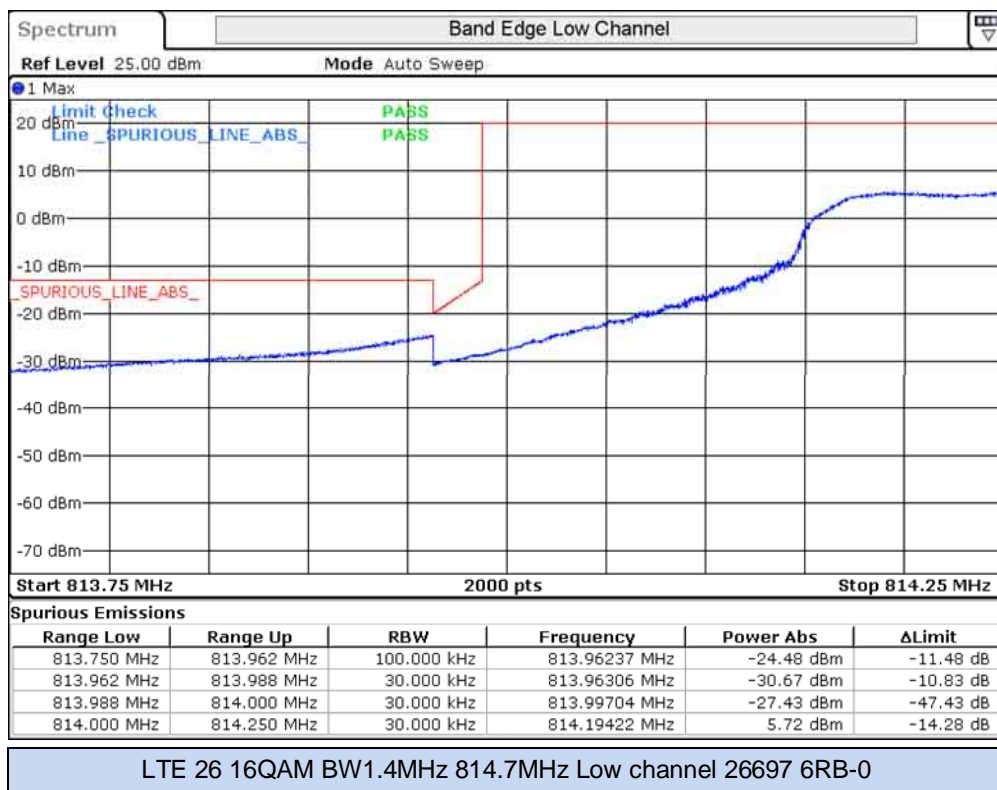
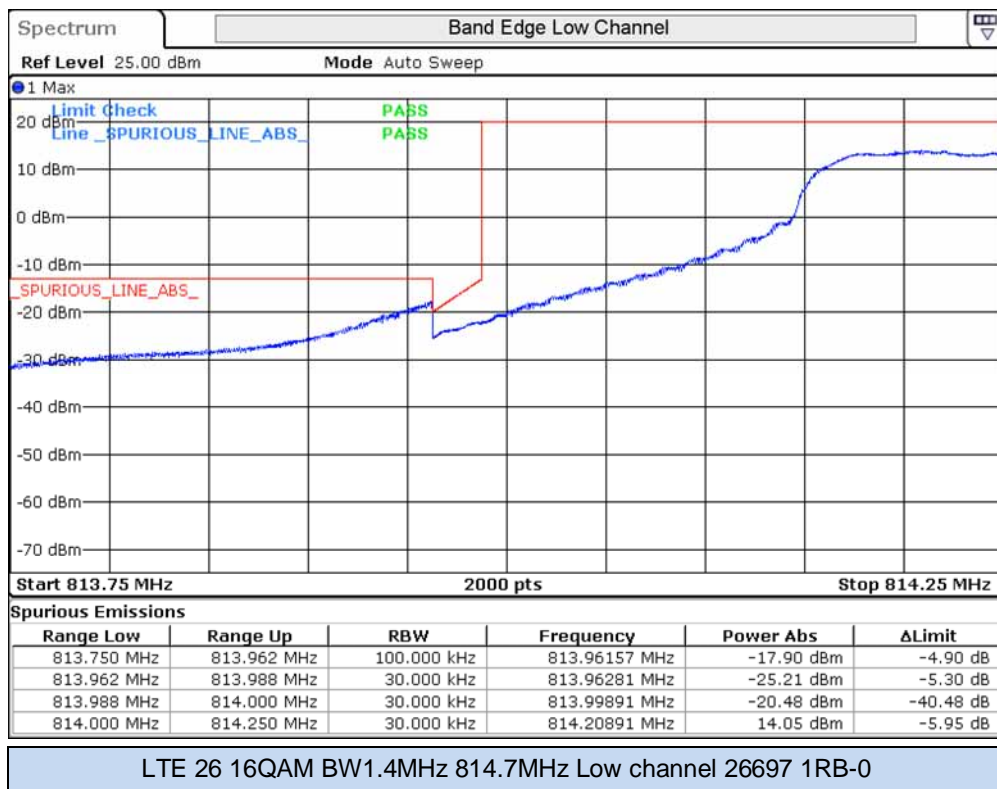


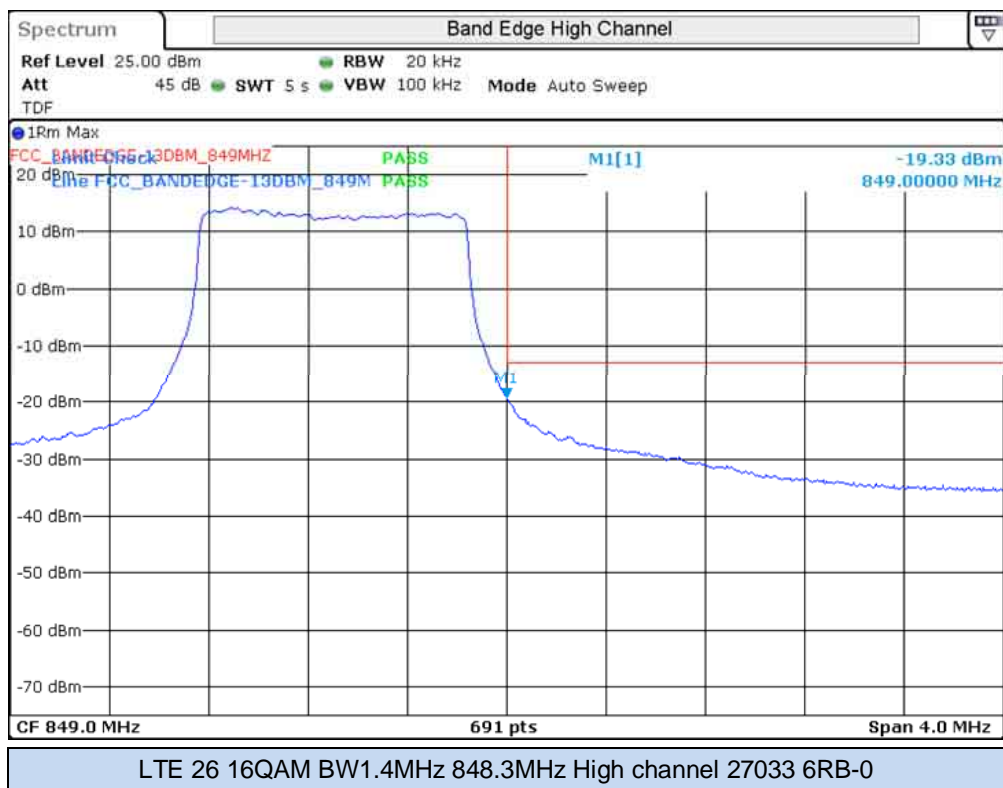
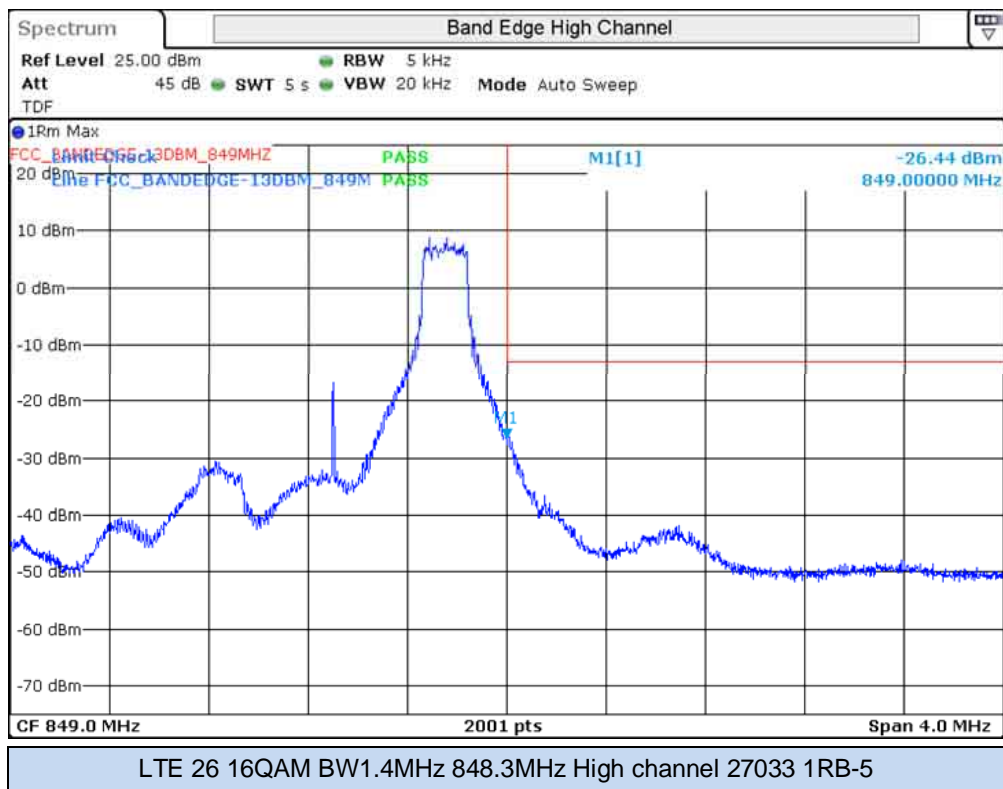


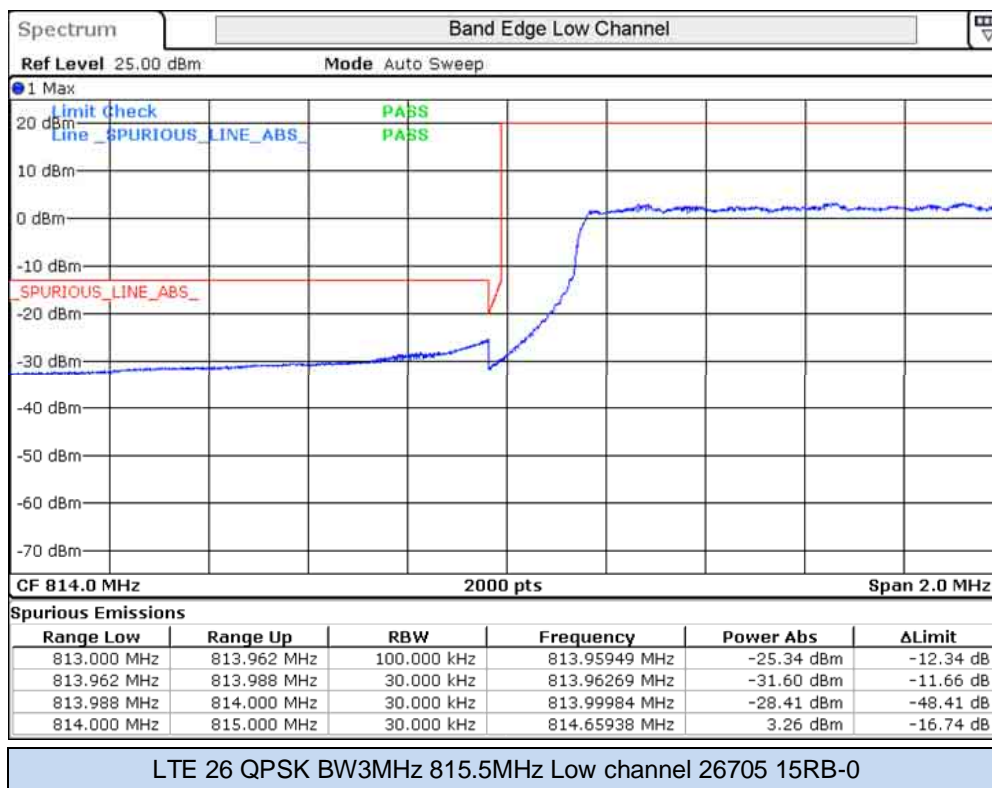
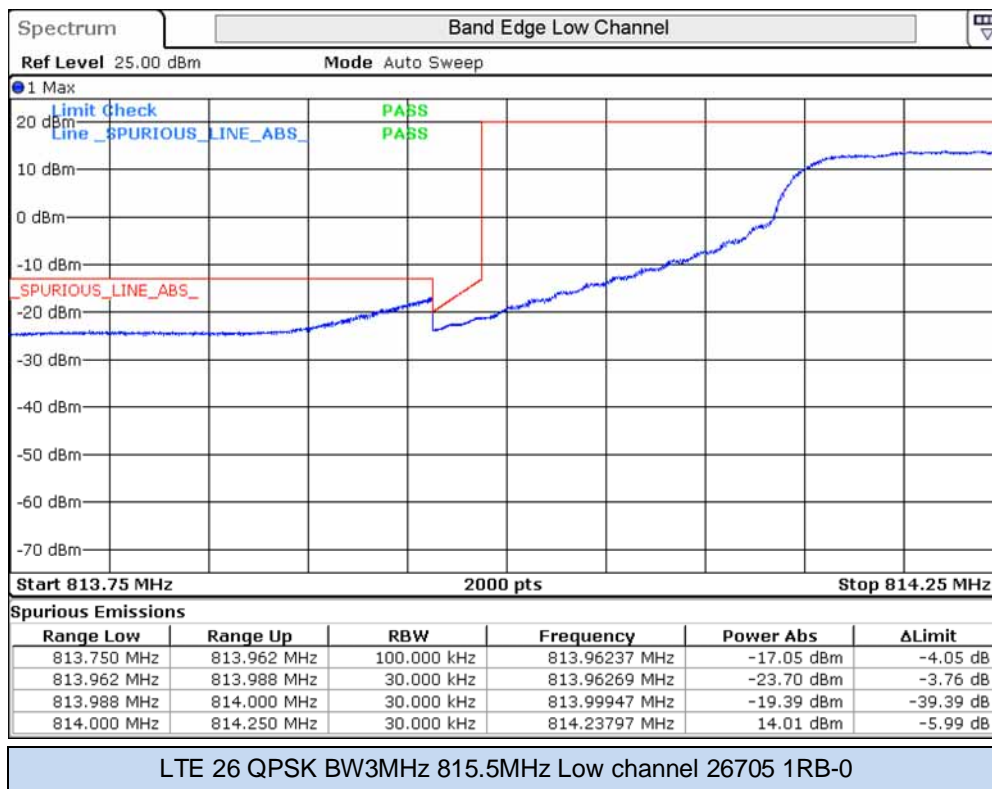


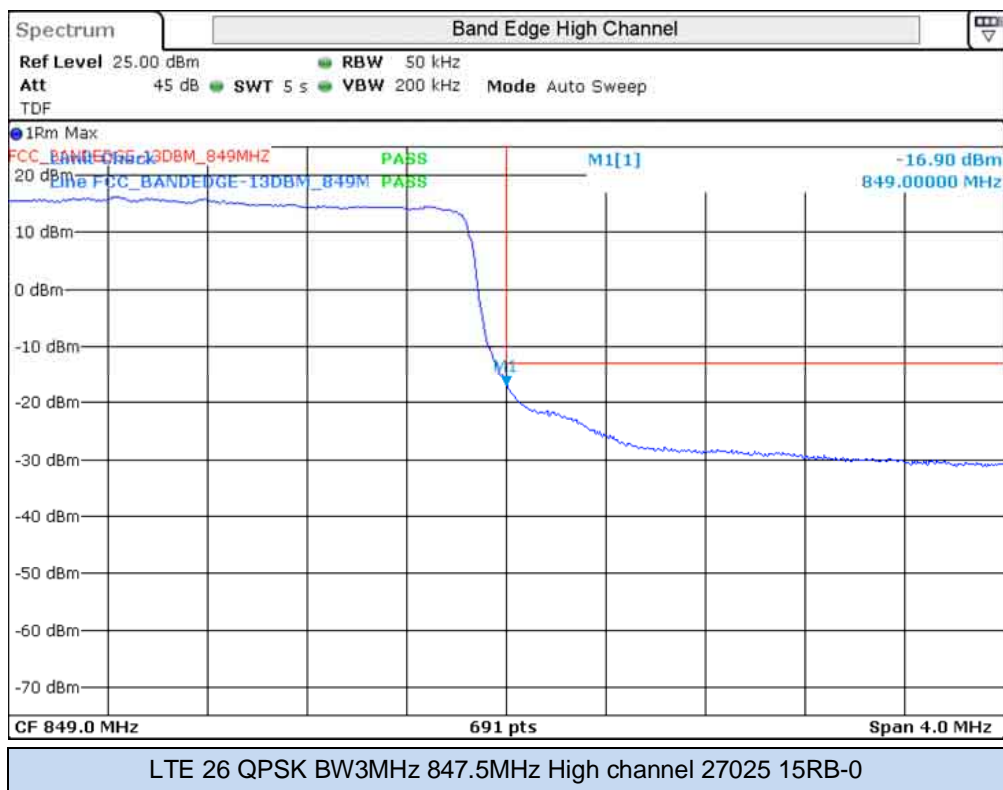
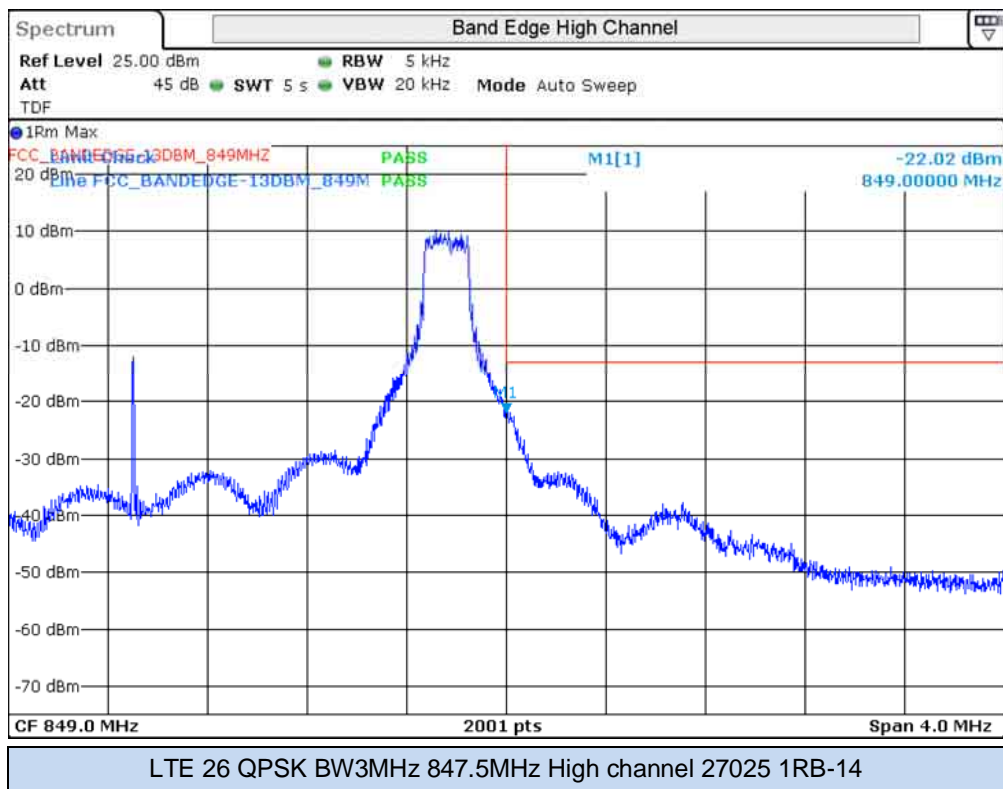


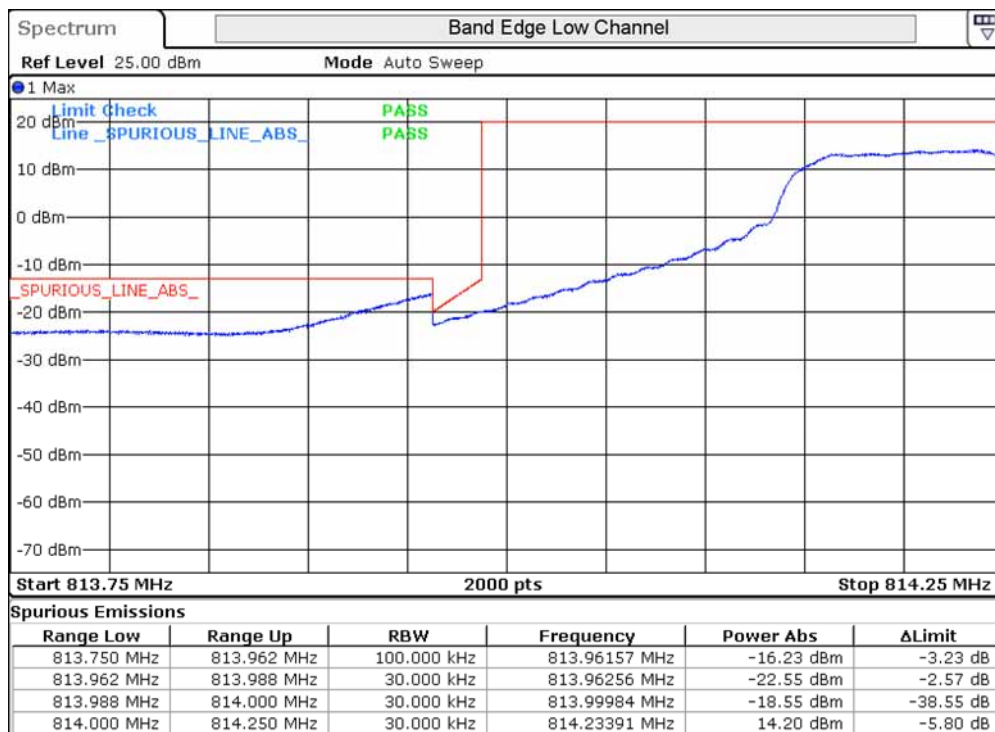




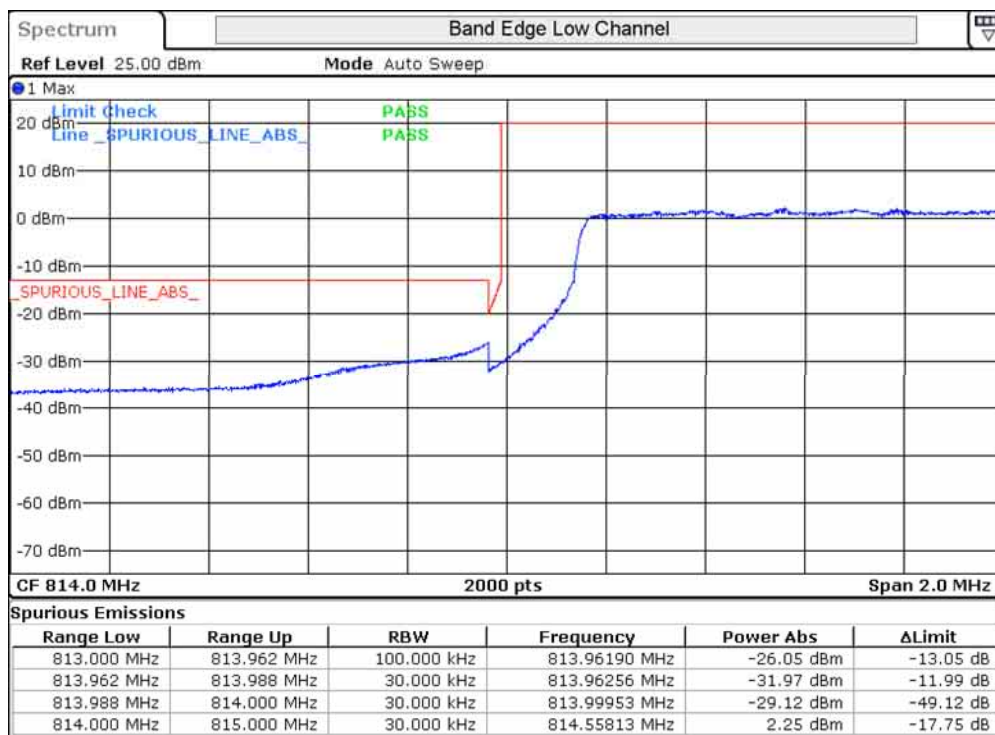




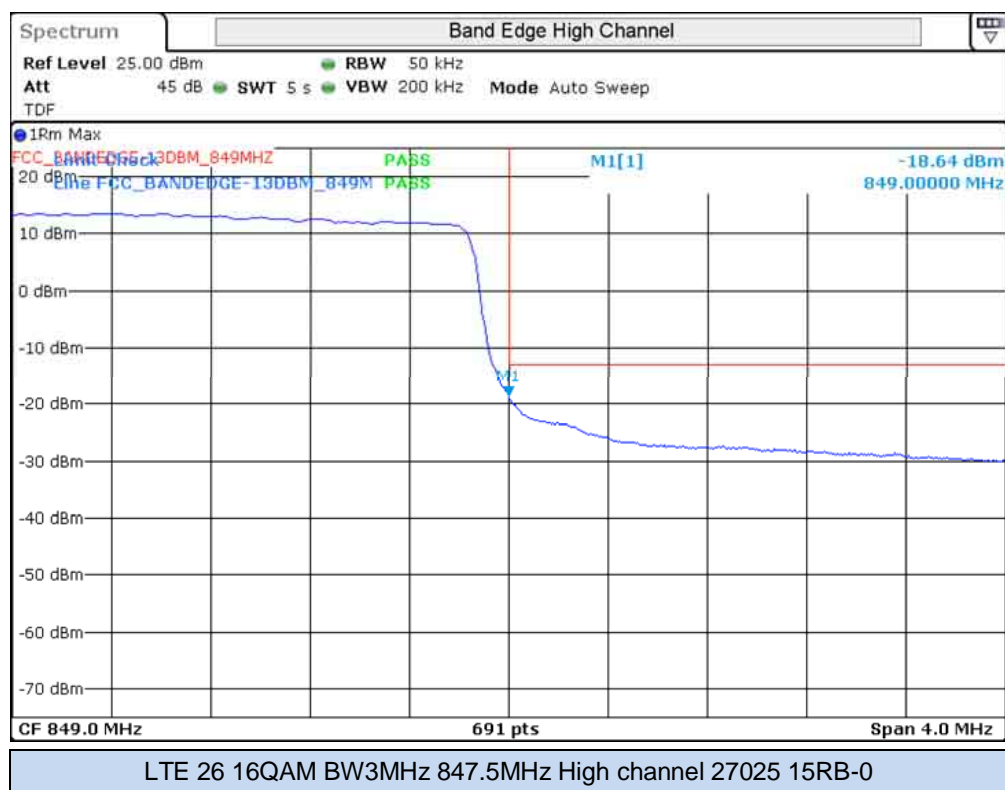
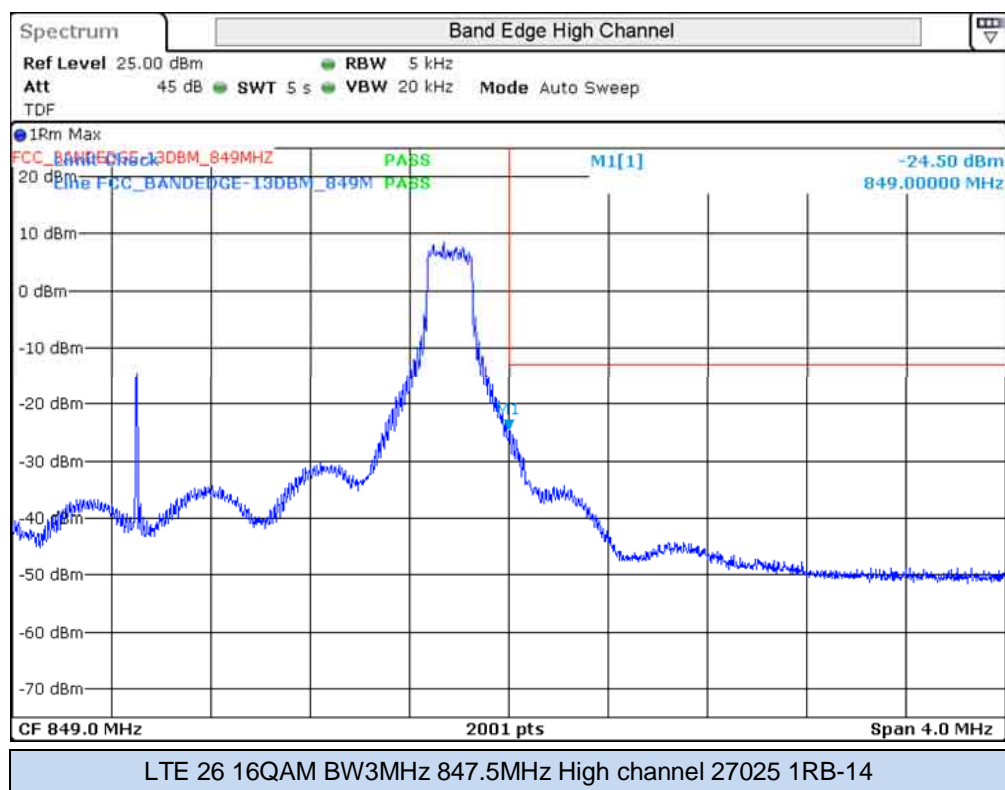


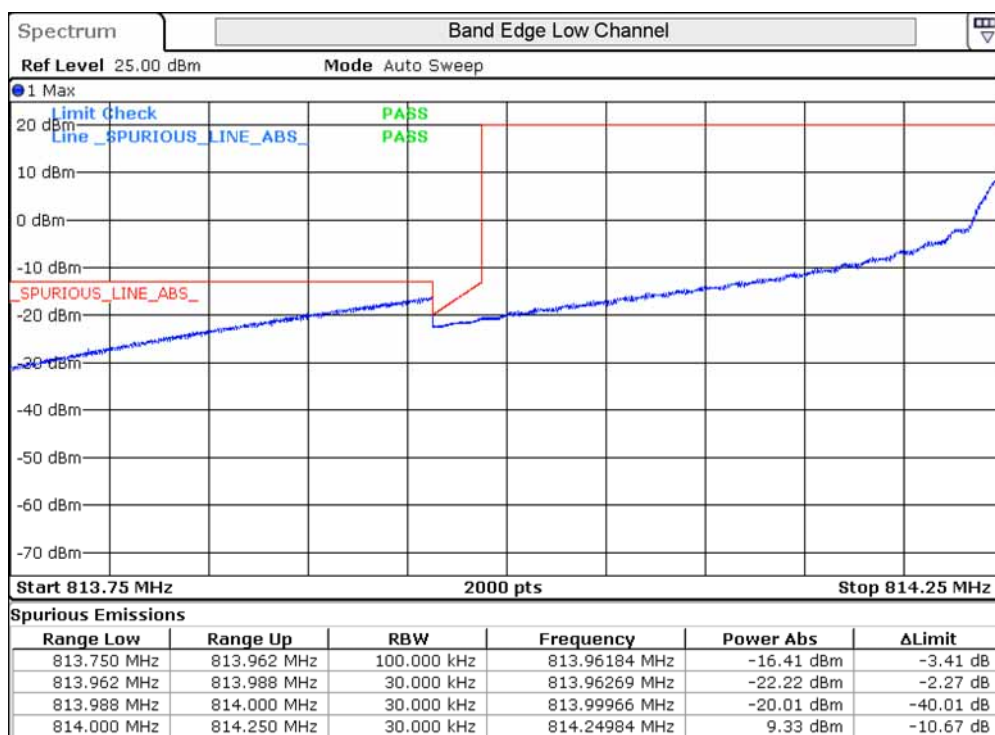


LTE 26 16QAM BW3MHz 815.5MHz Low channel 26705 1RB-0

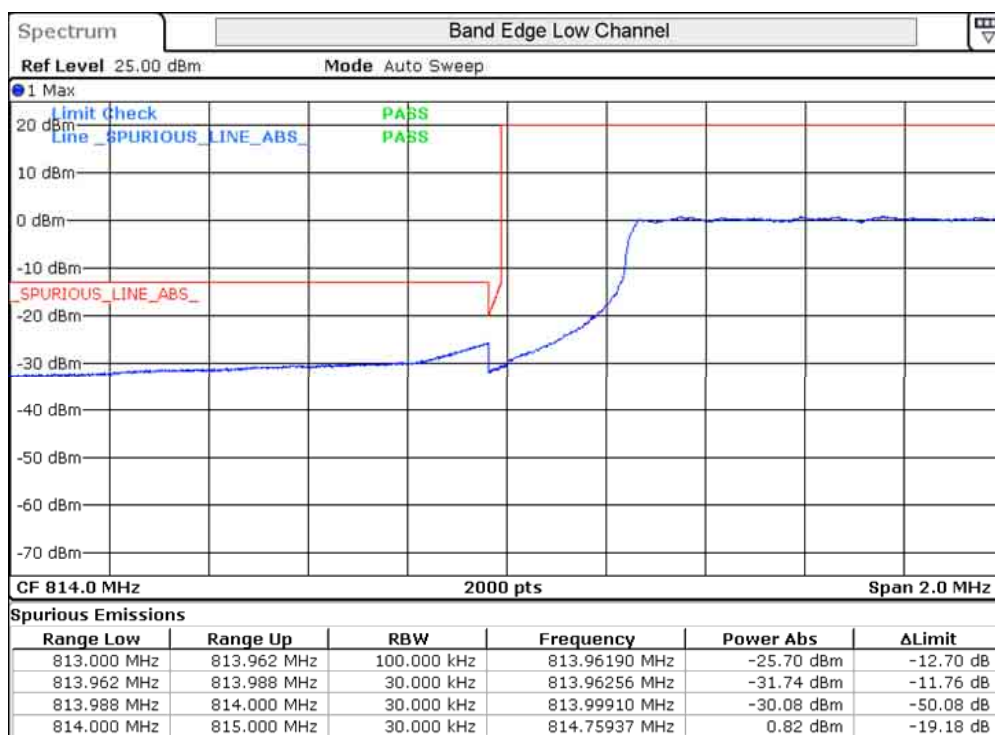


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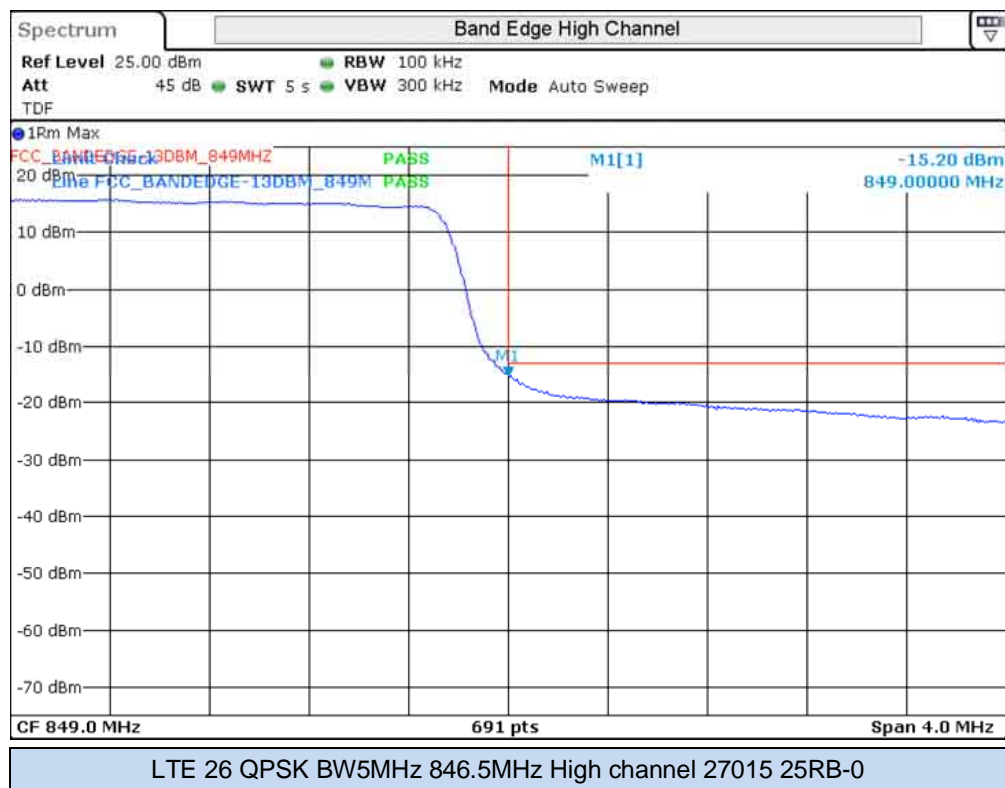
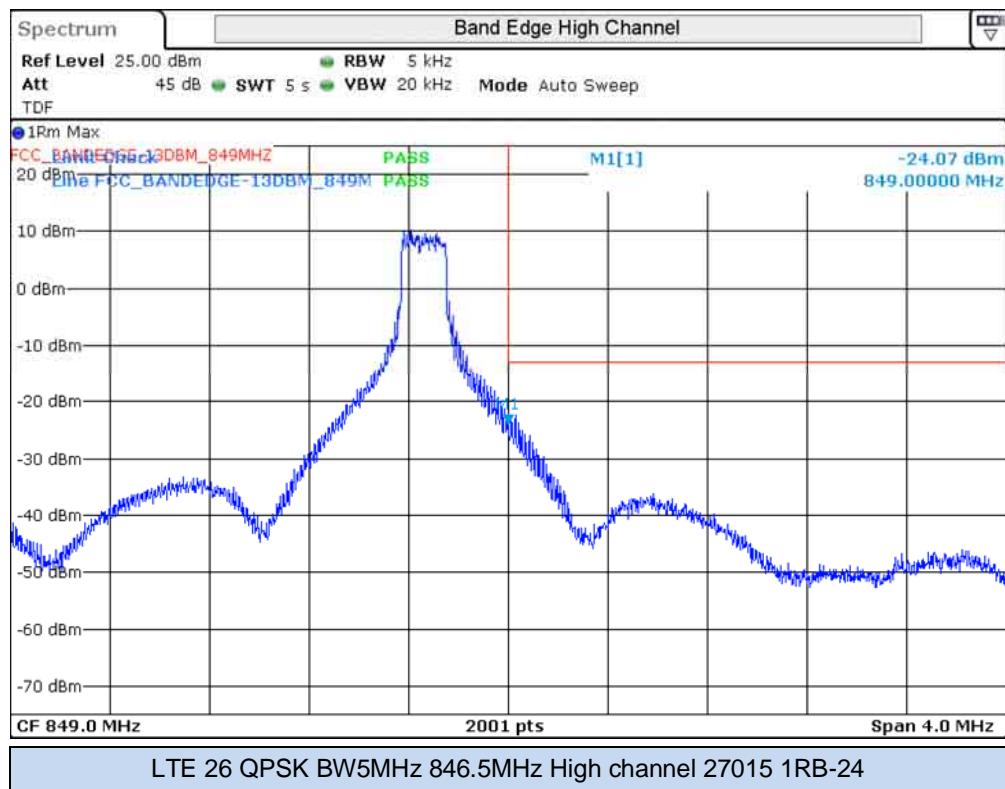


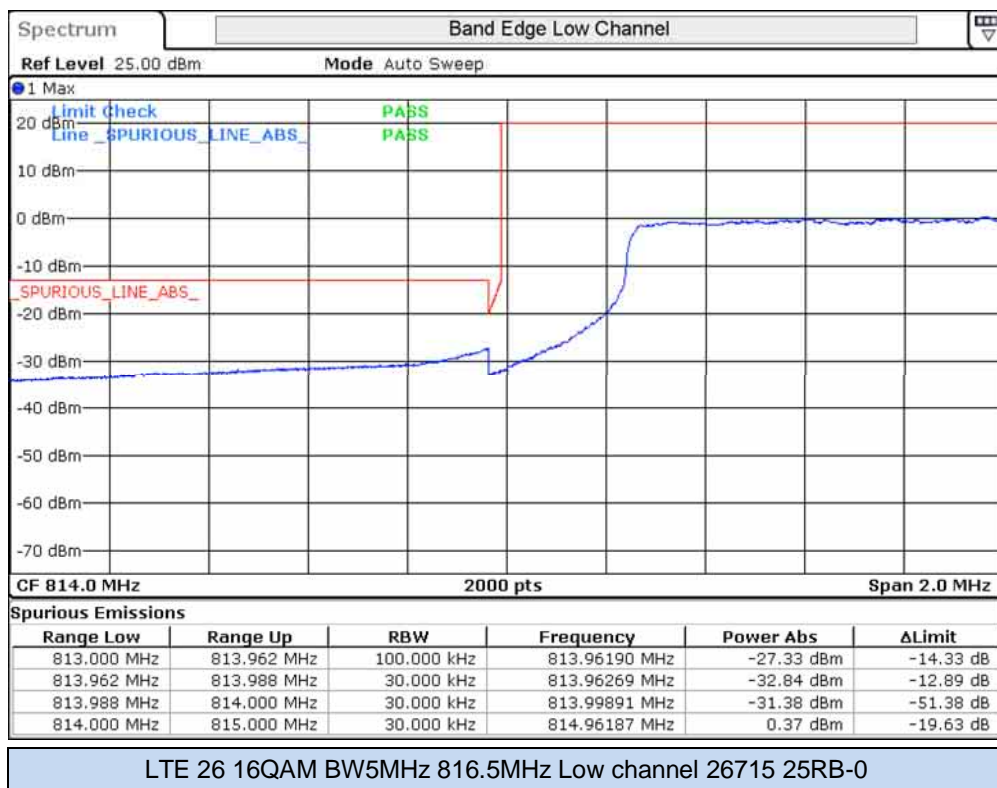
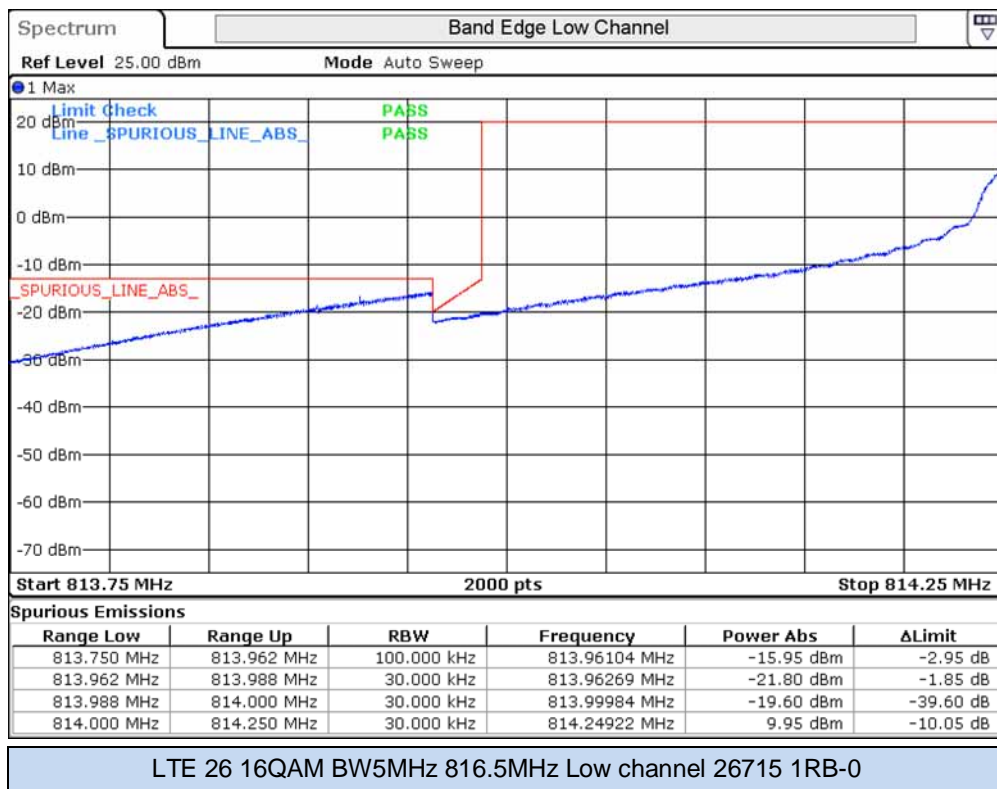


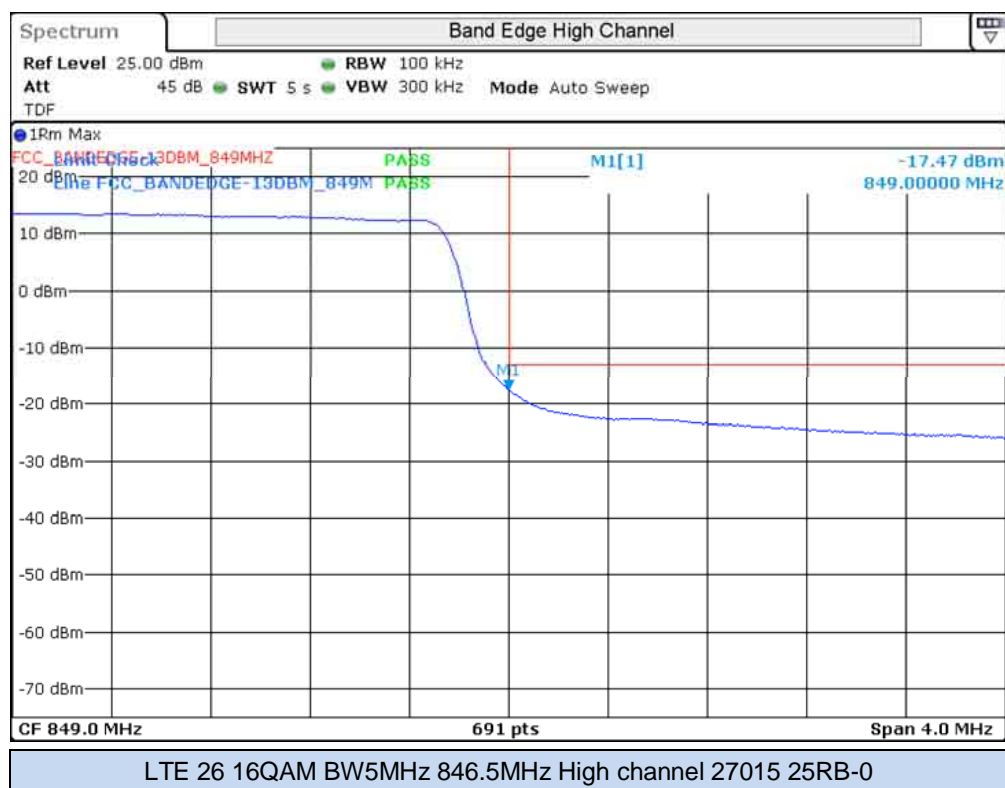
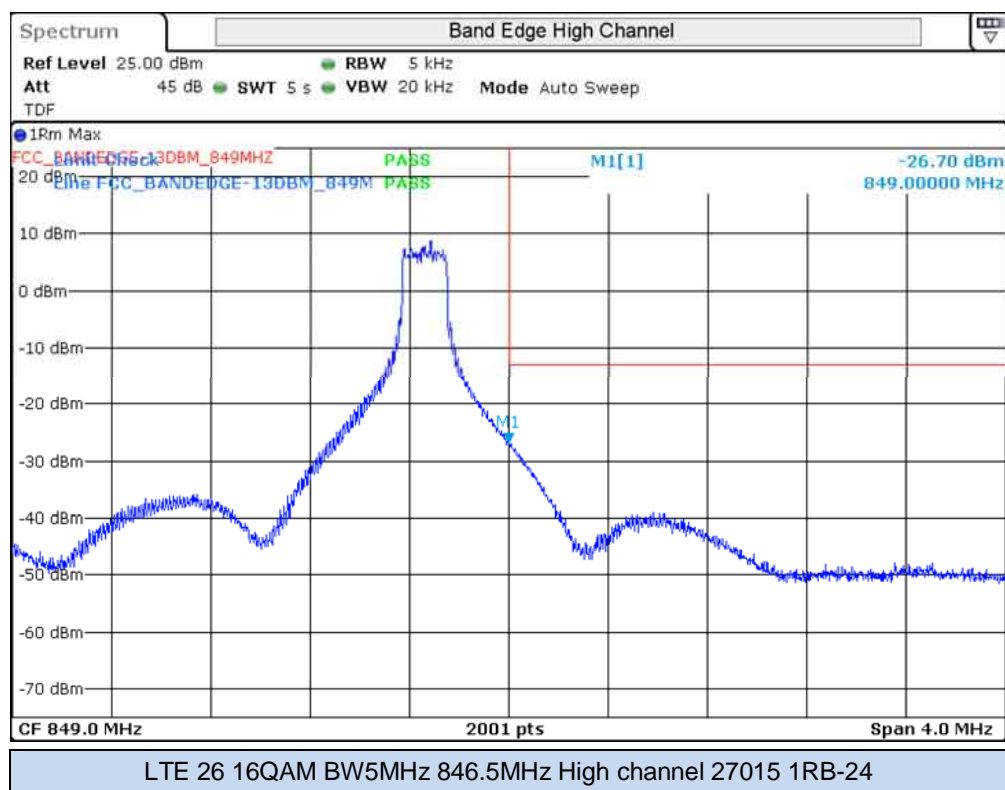
LTE 26 QPSK BW5MHz 816.5MHz Low channel 26715 1RB-0

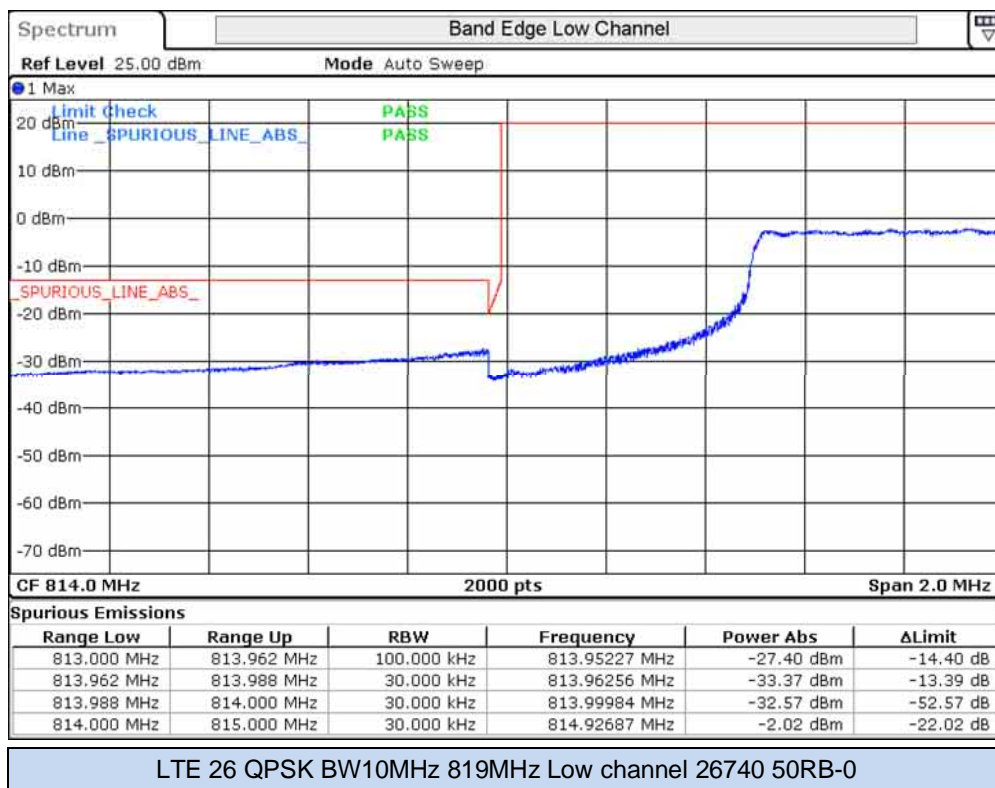
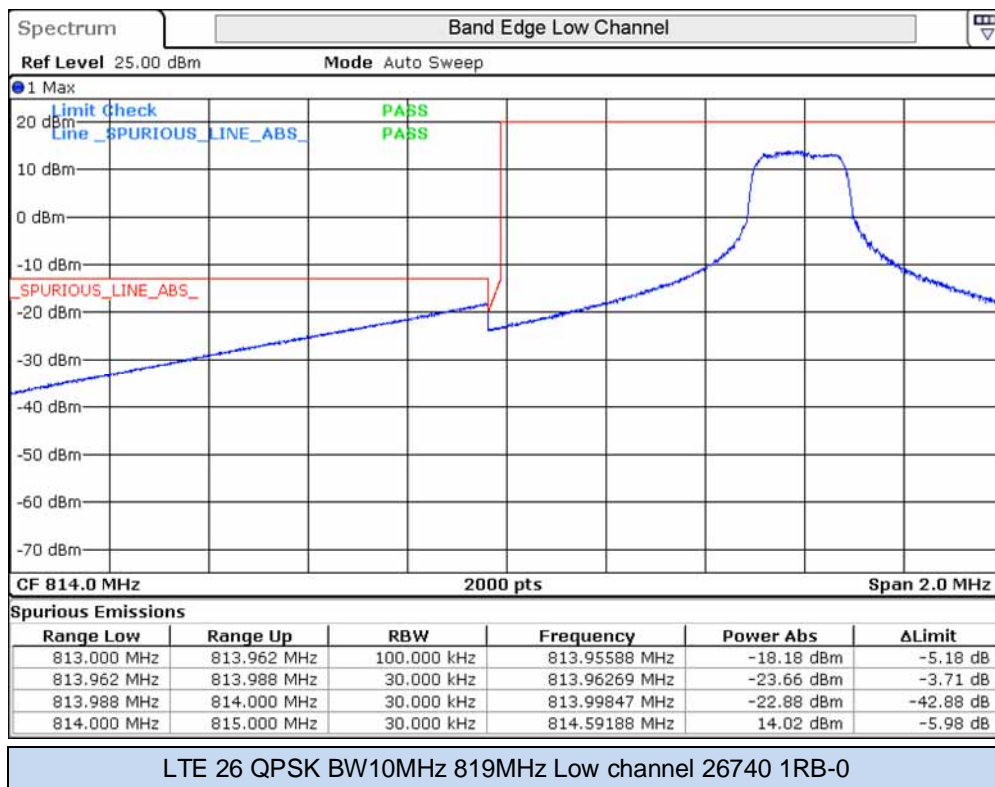


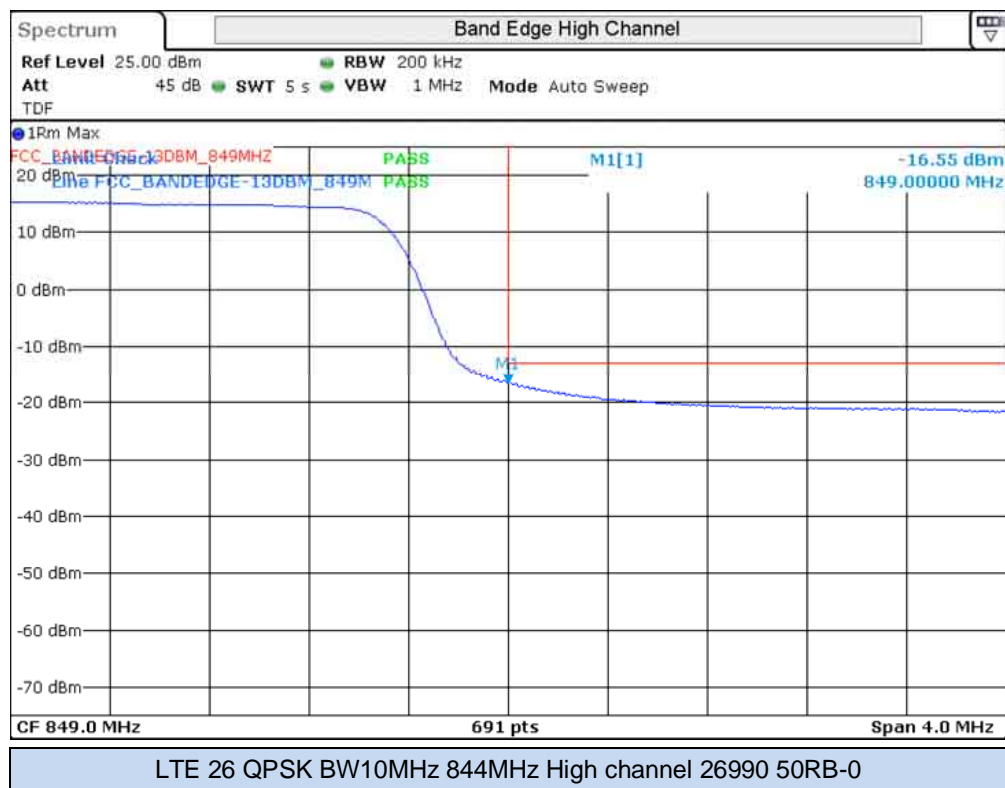
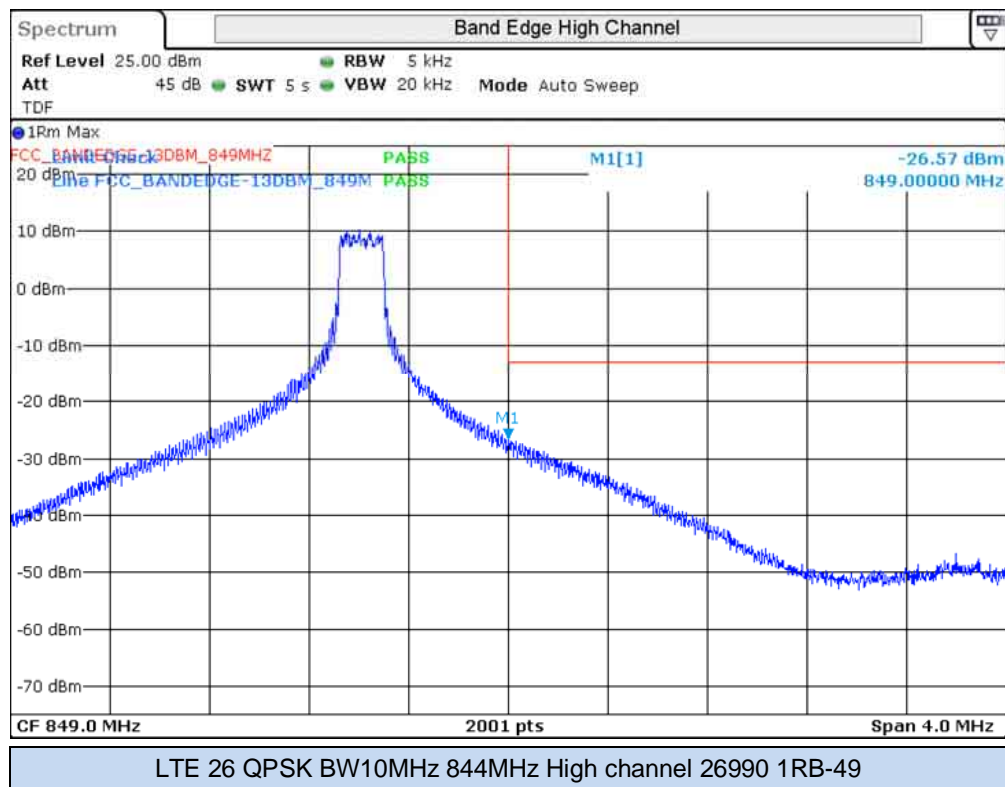
LTE 26 QPSK BW5MHz 816.5MHz Low channel 26715 25RB-0

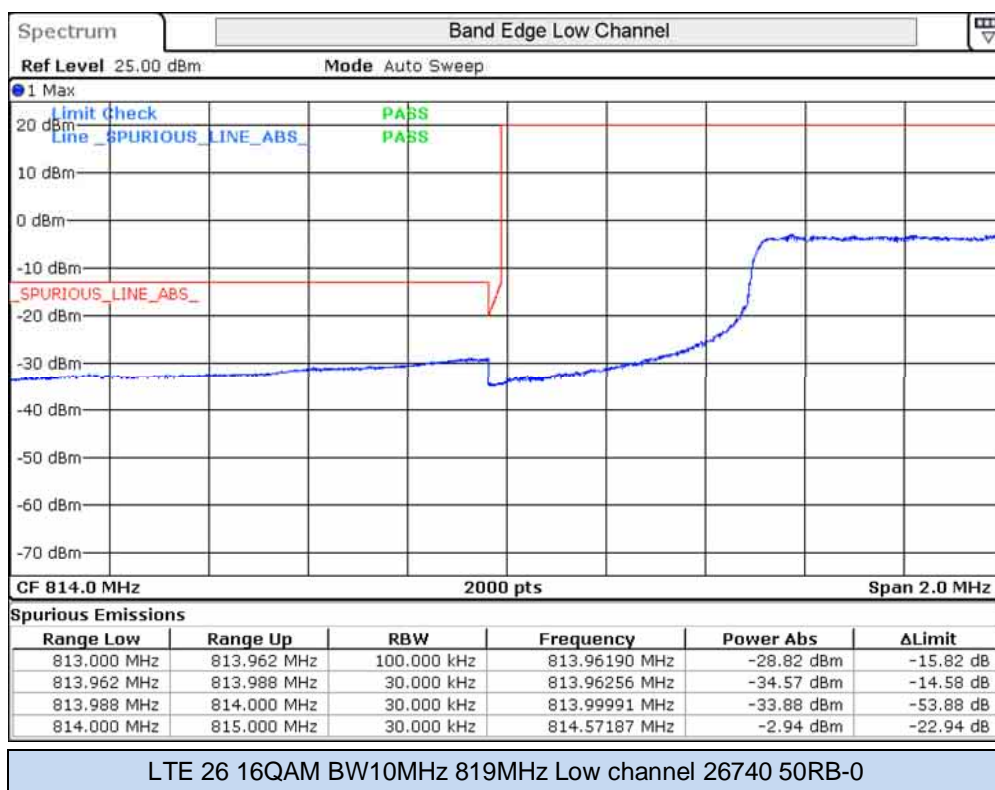
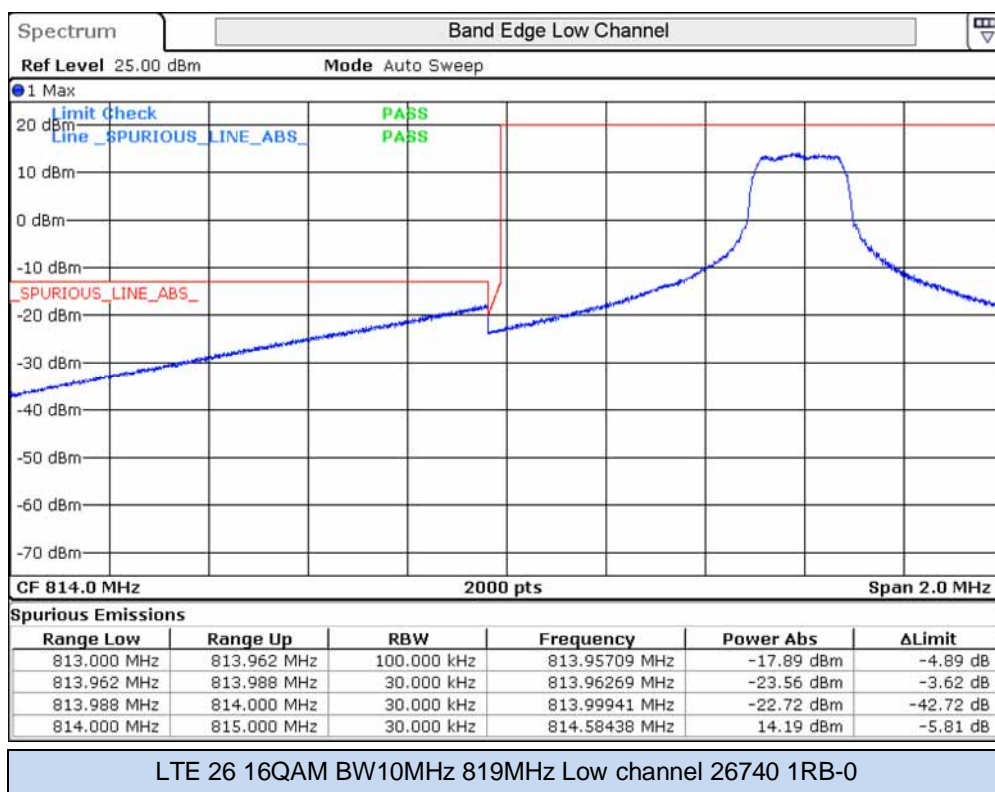


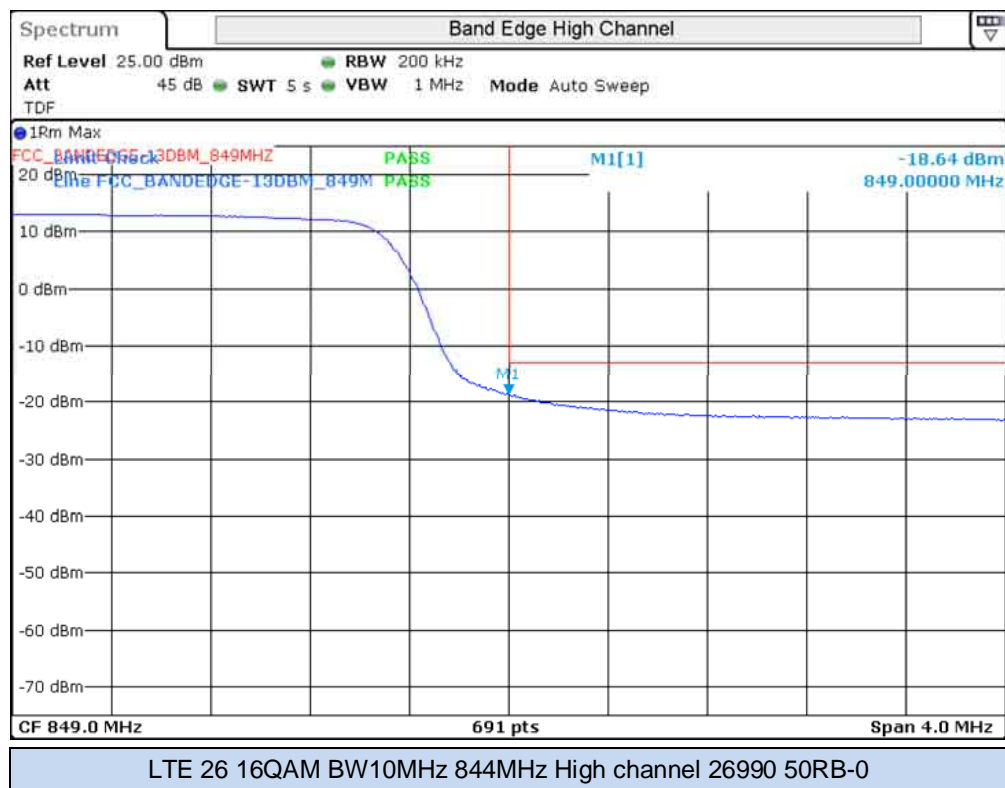
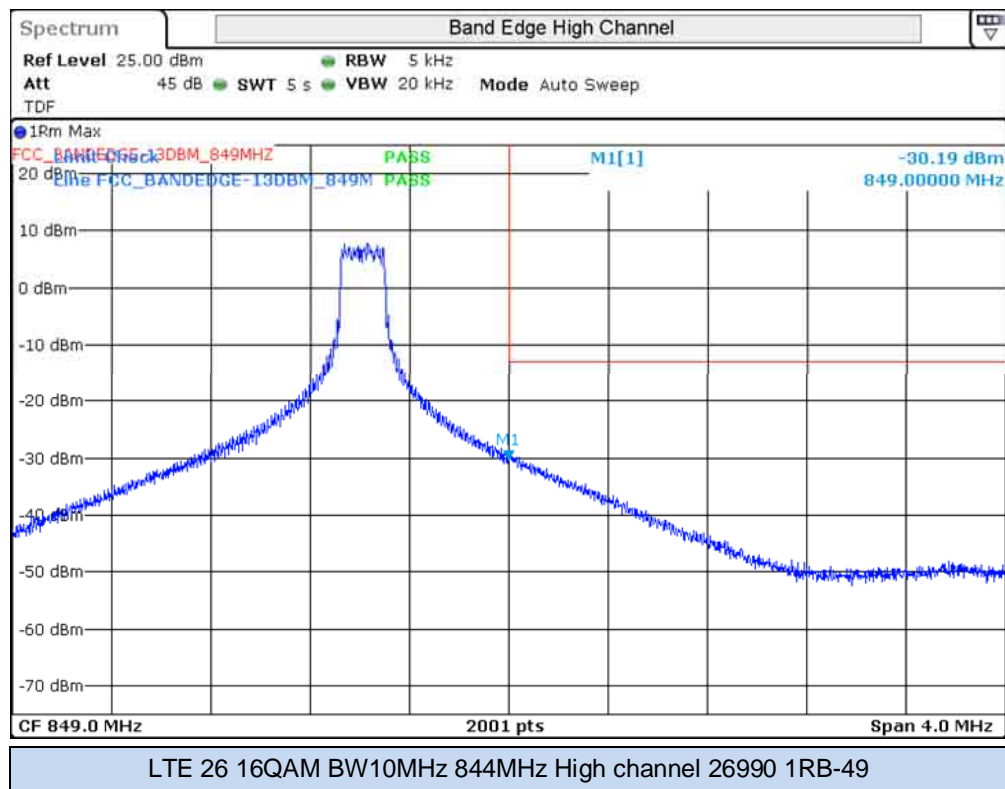


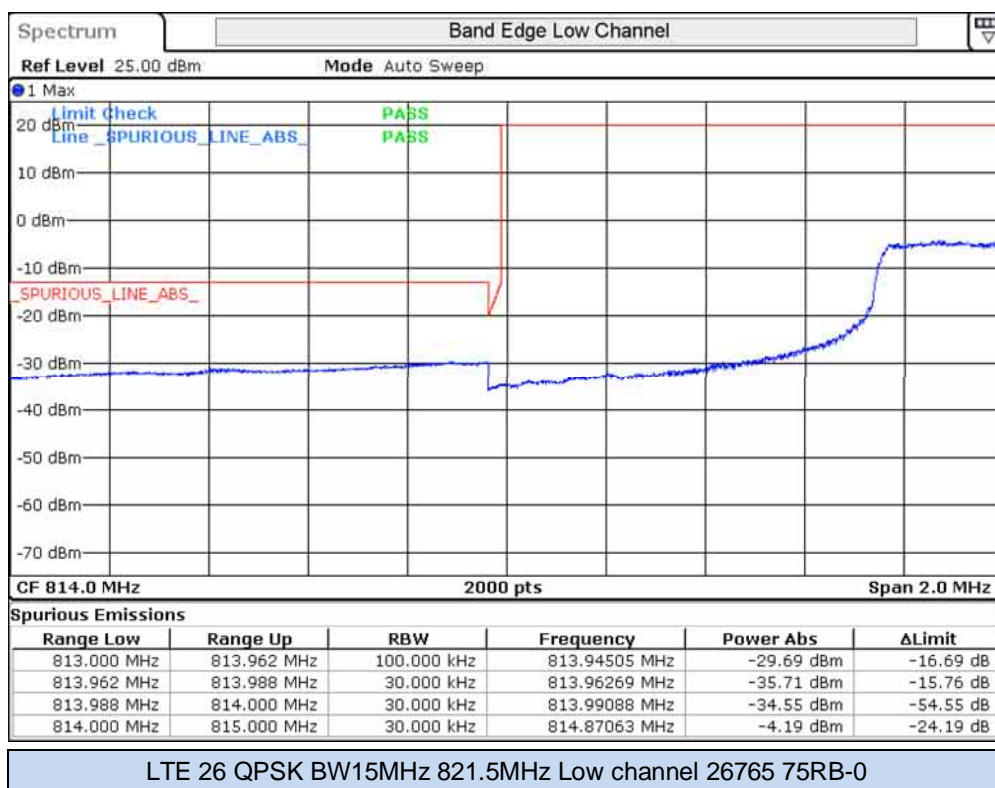
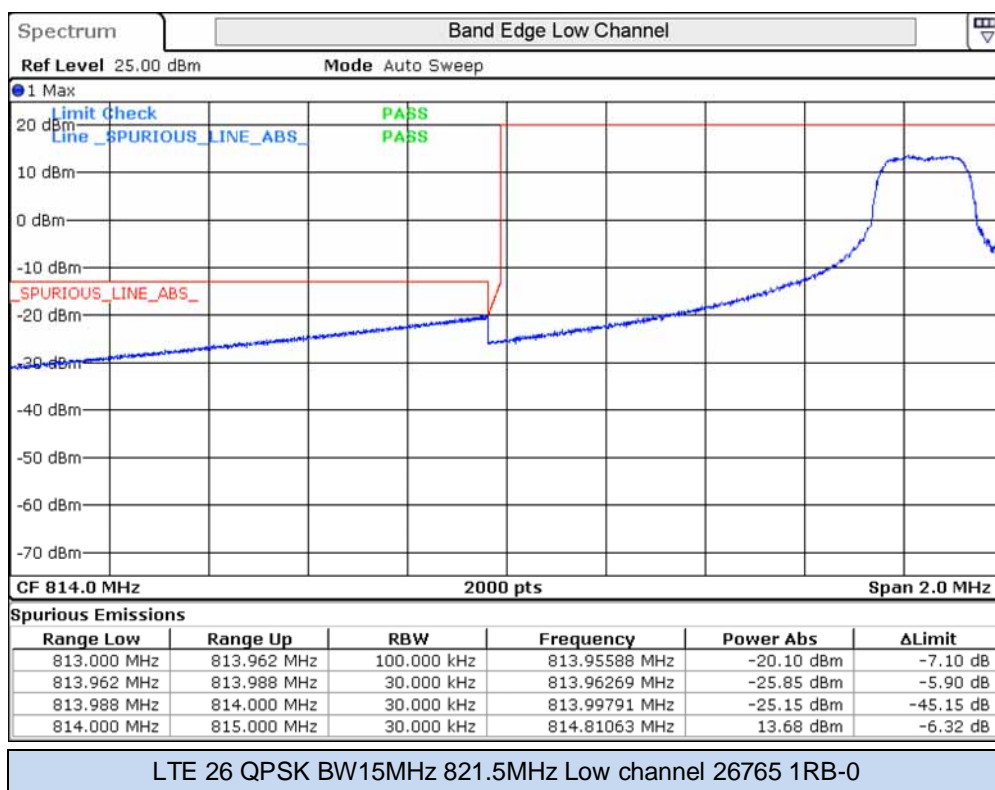


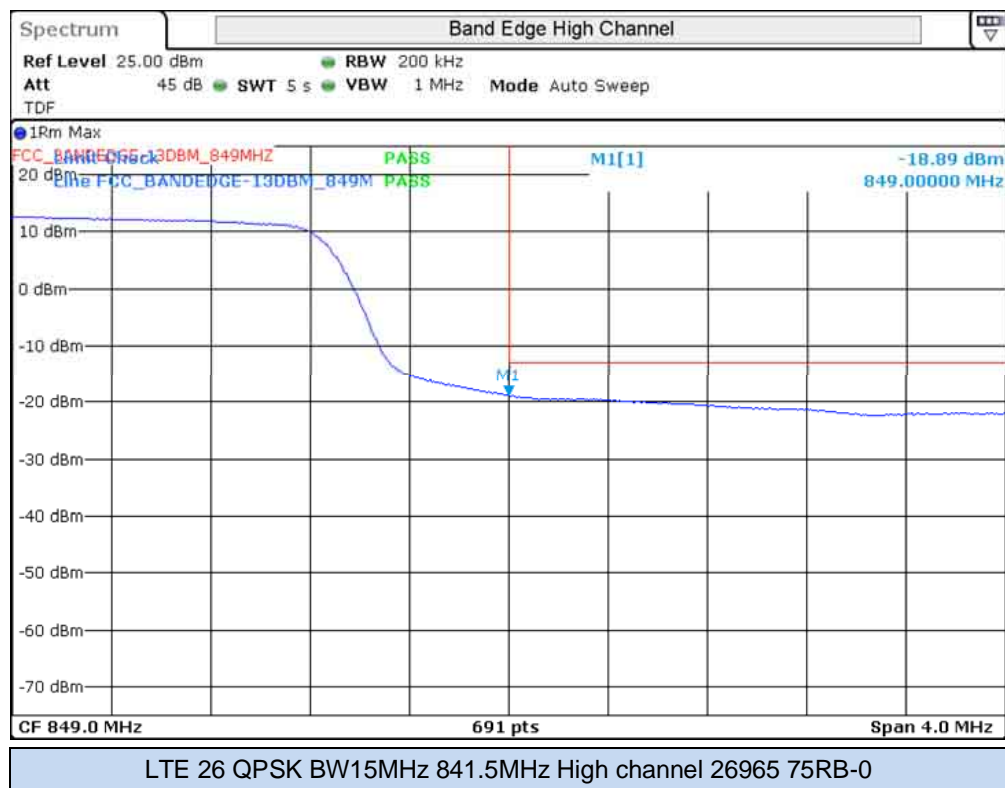
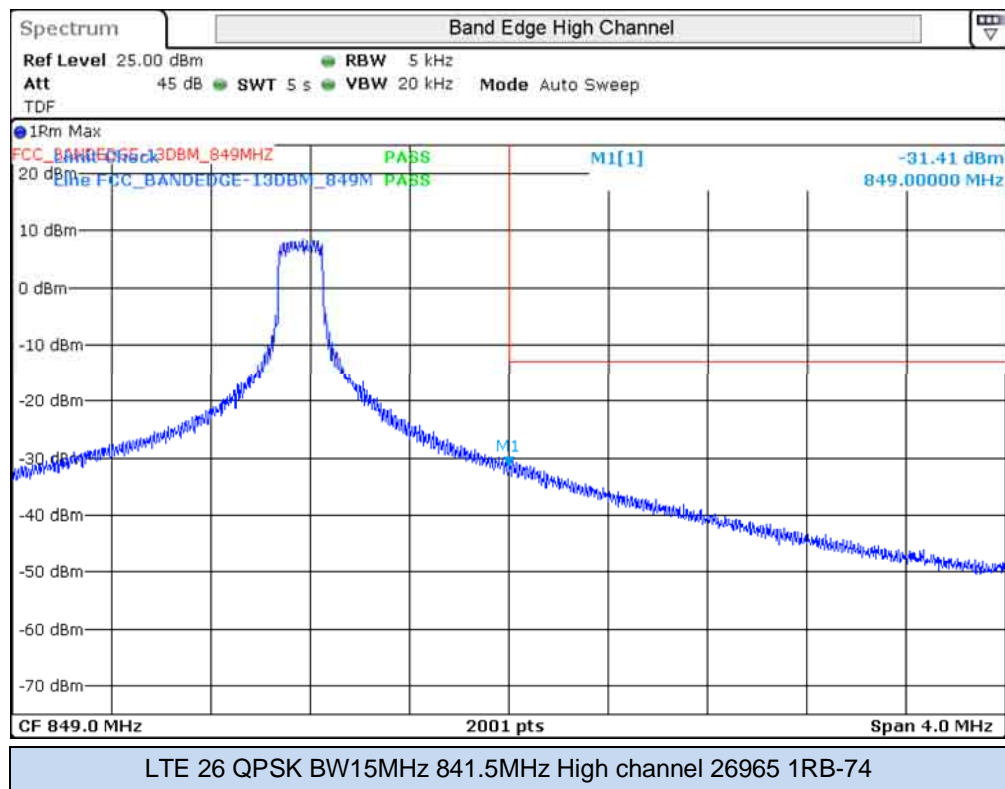


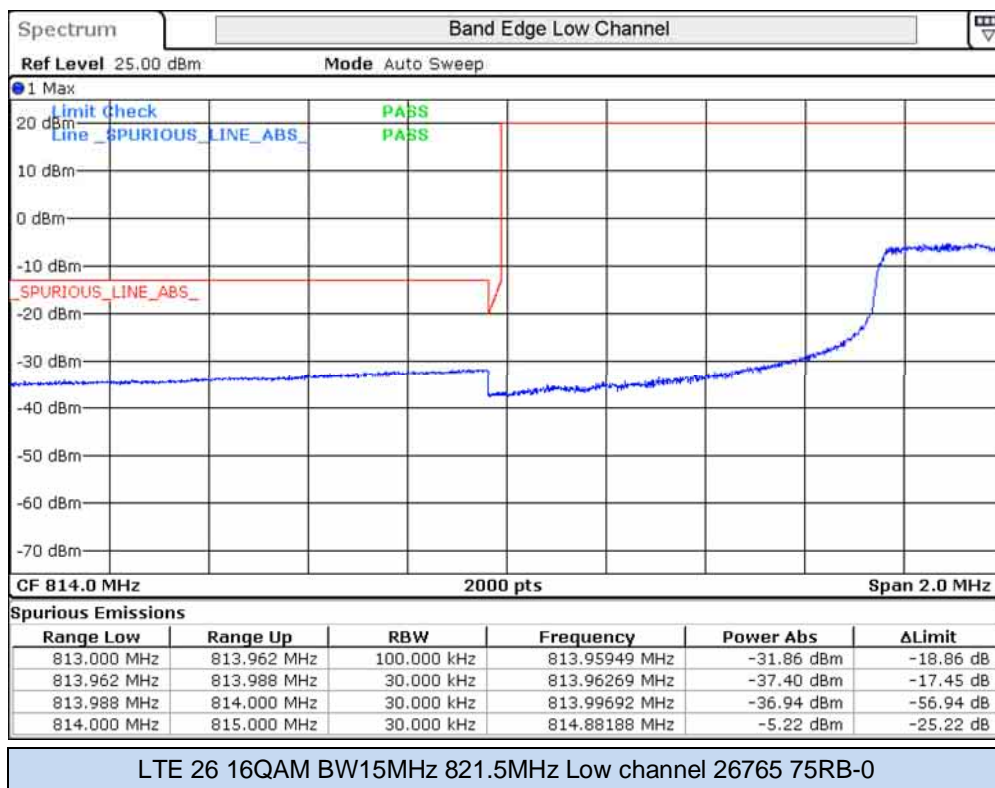
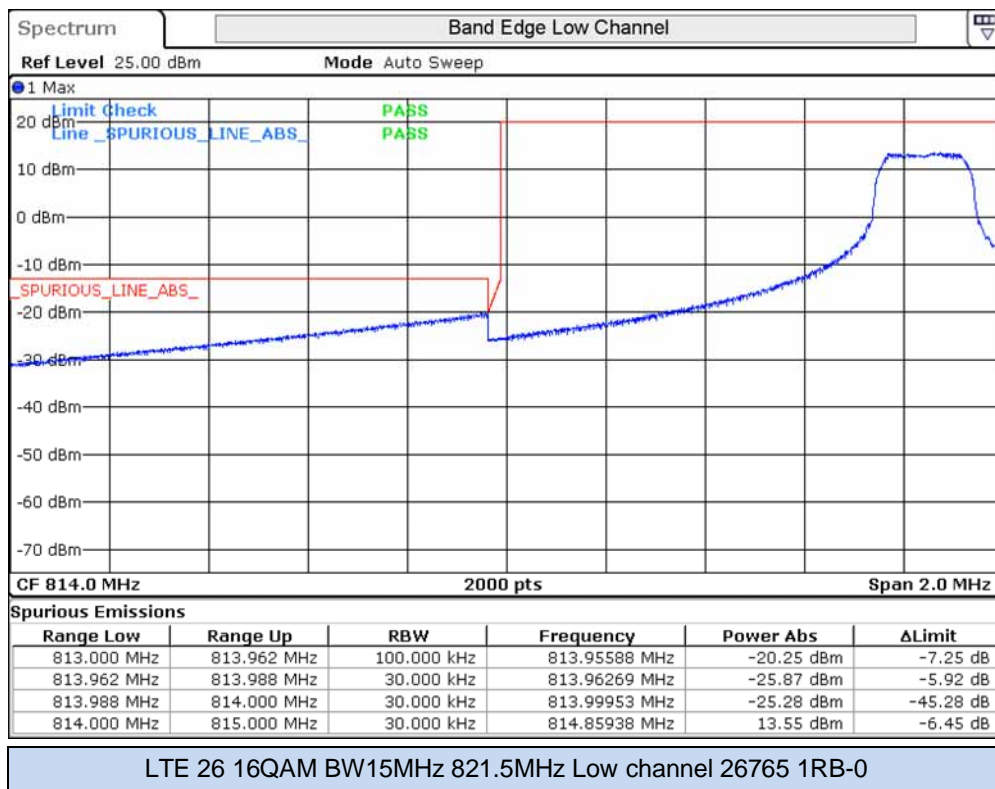


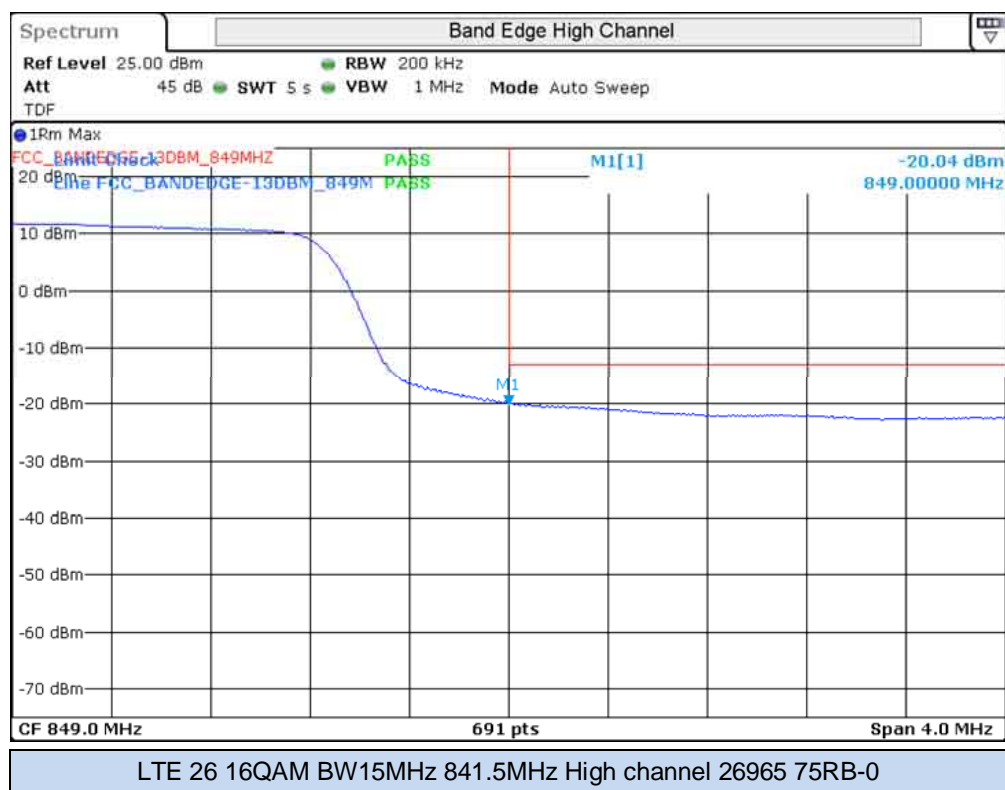
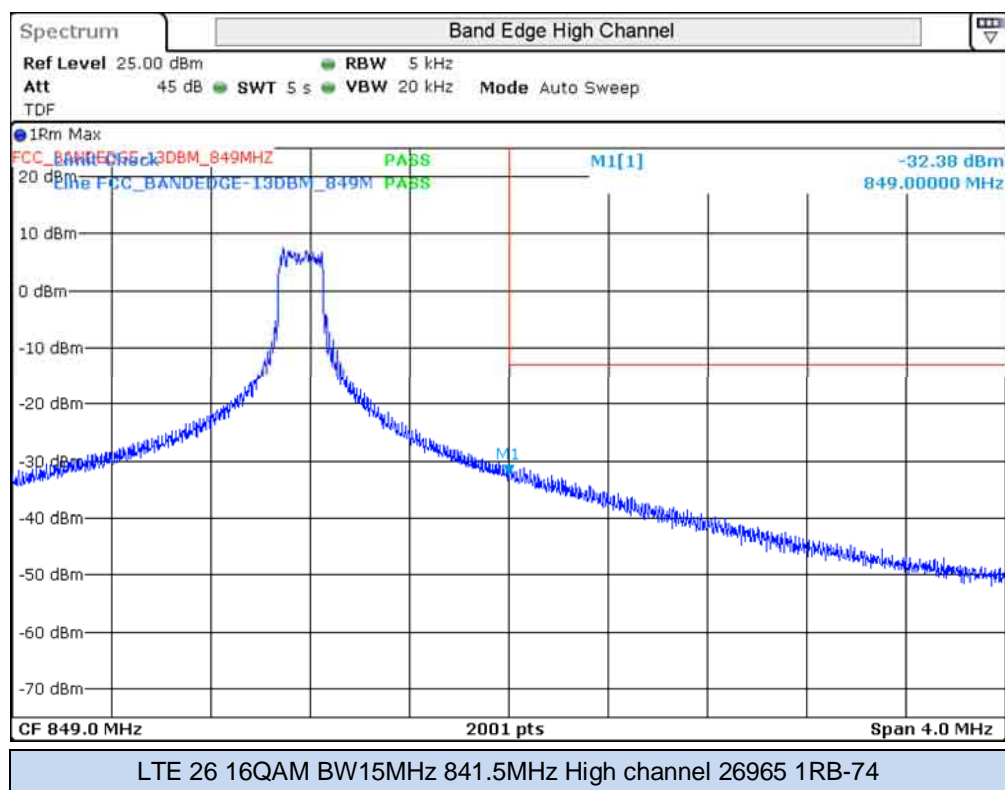


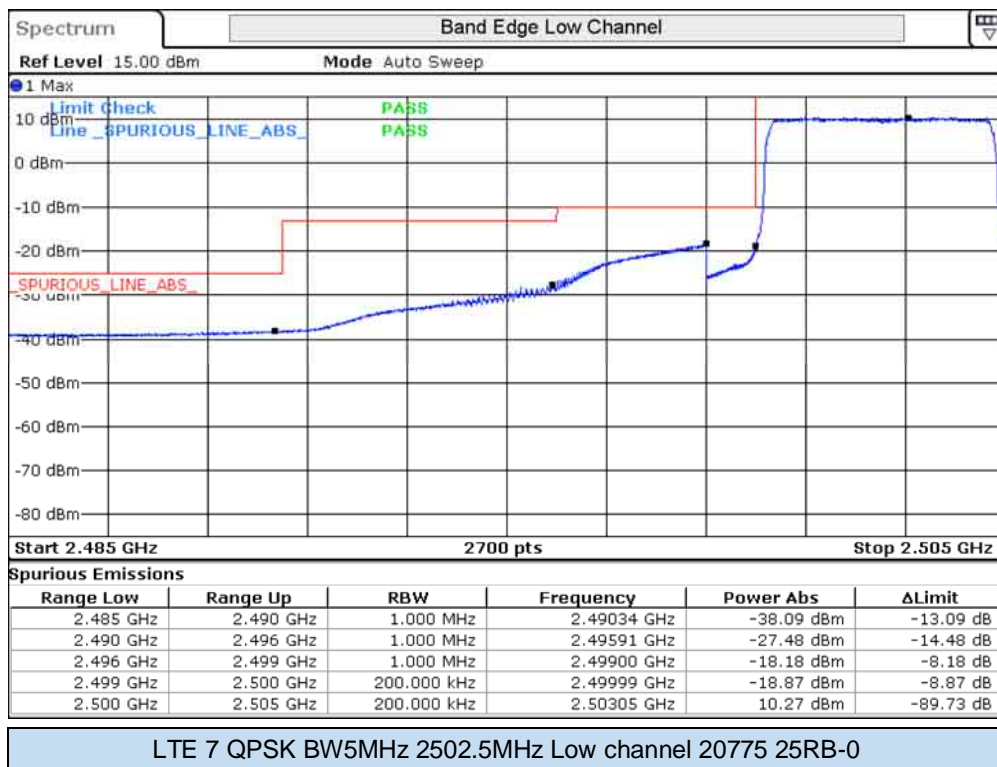
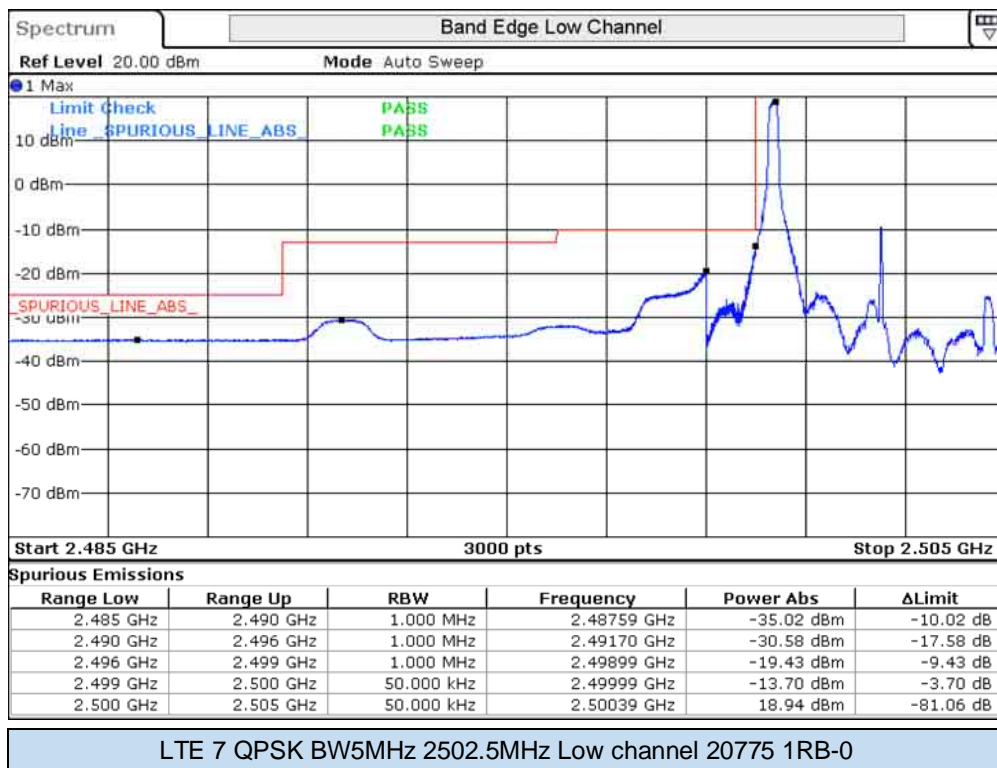


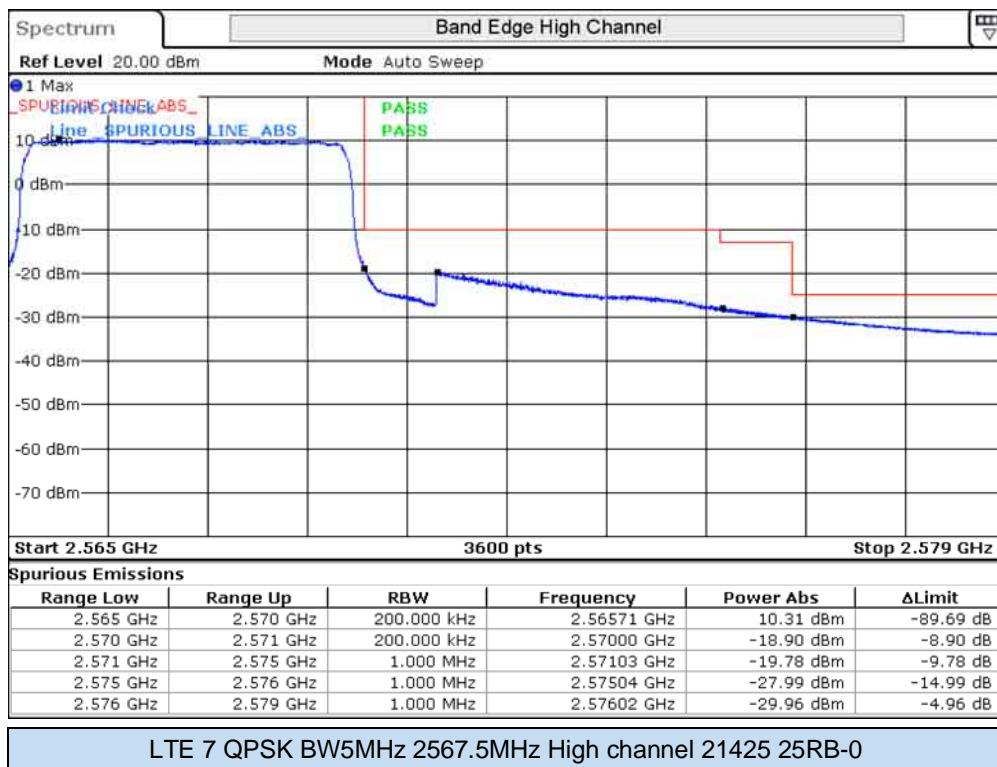
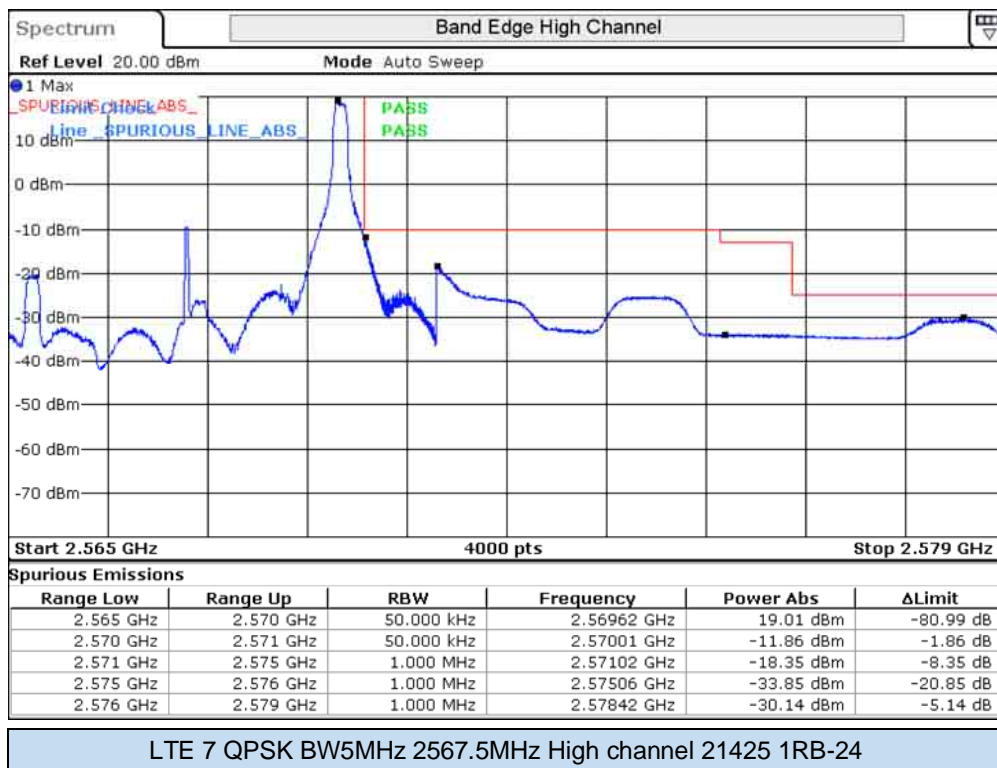


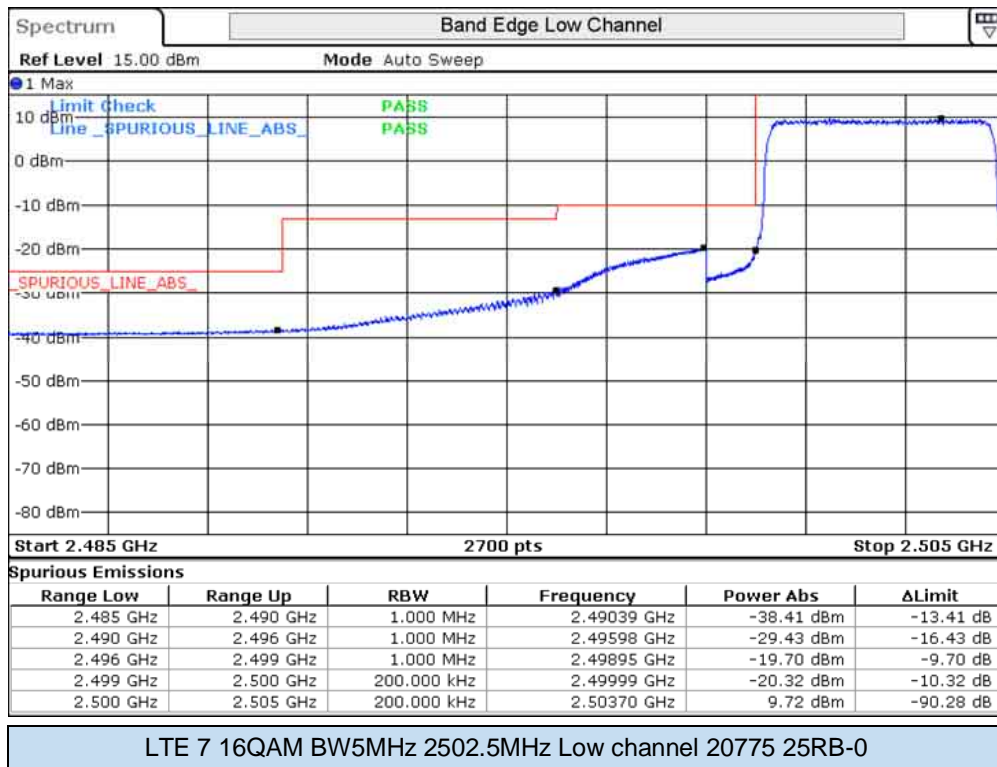
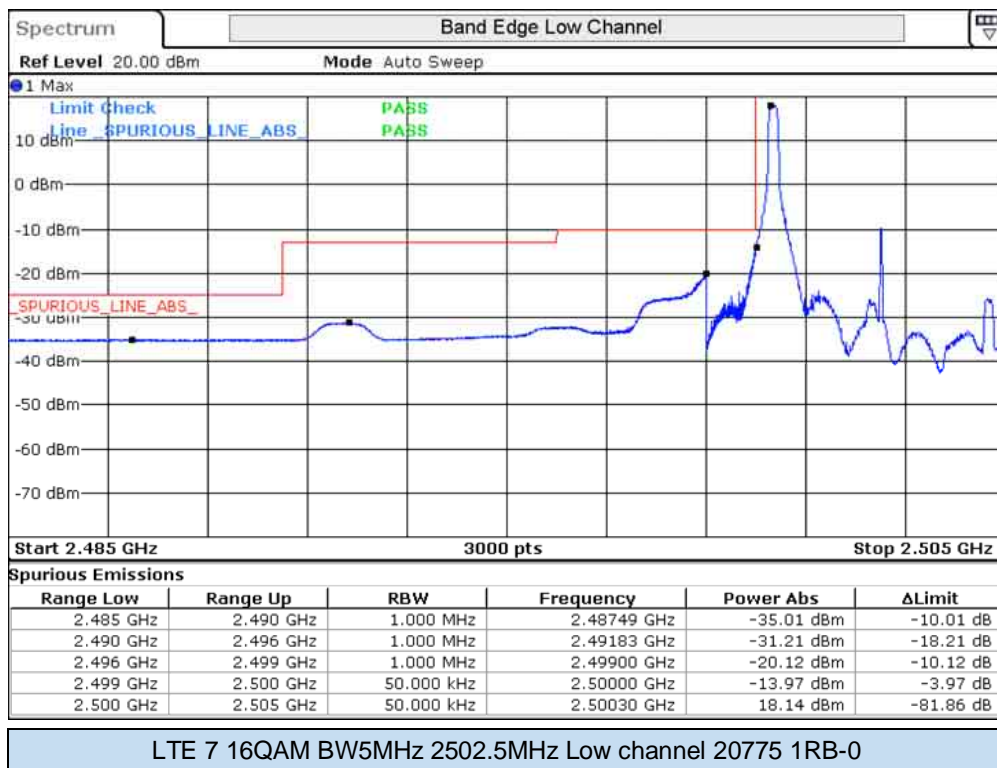


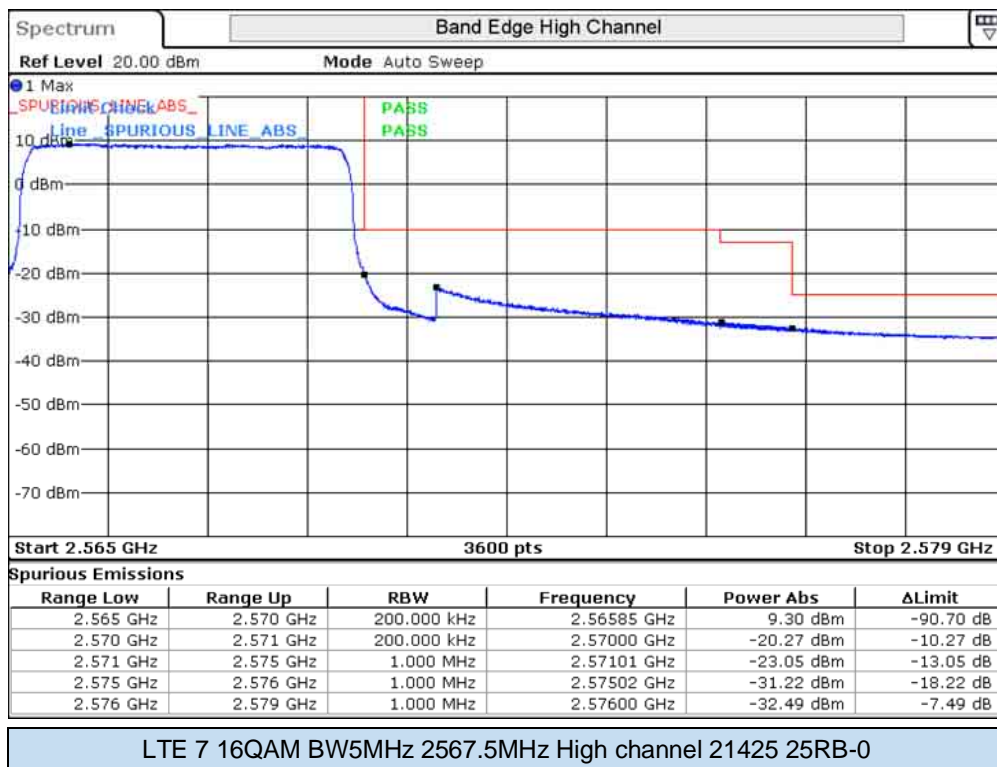
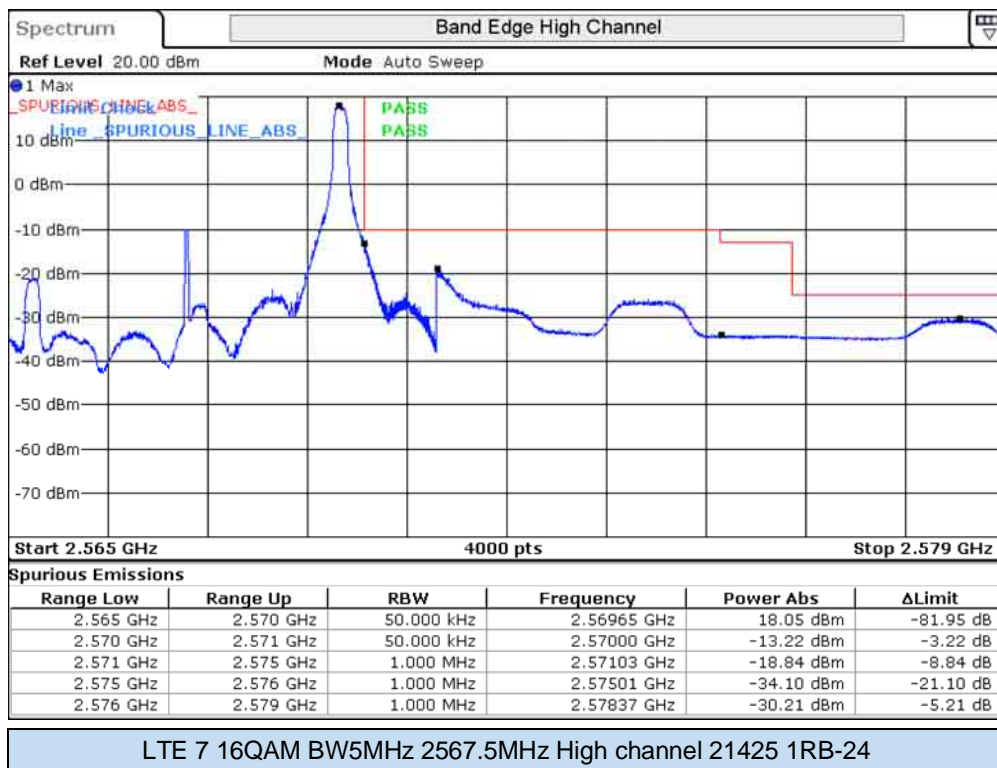


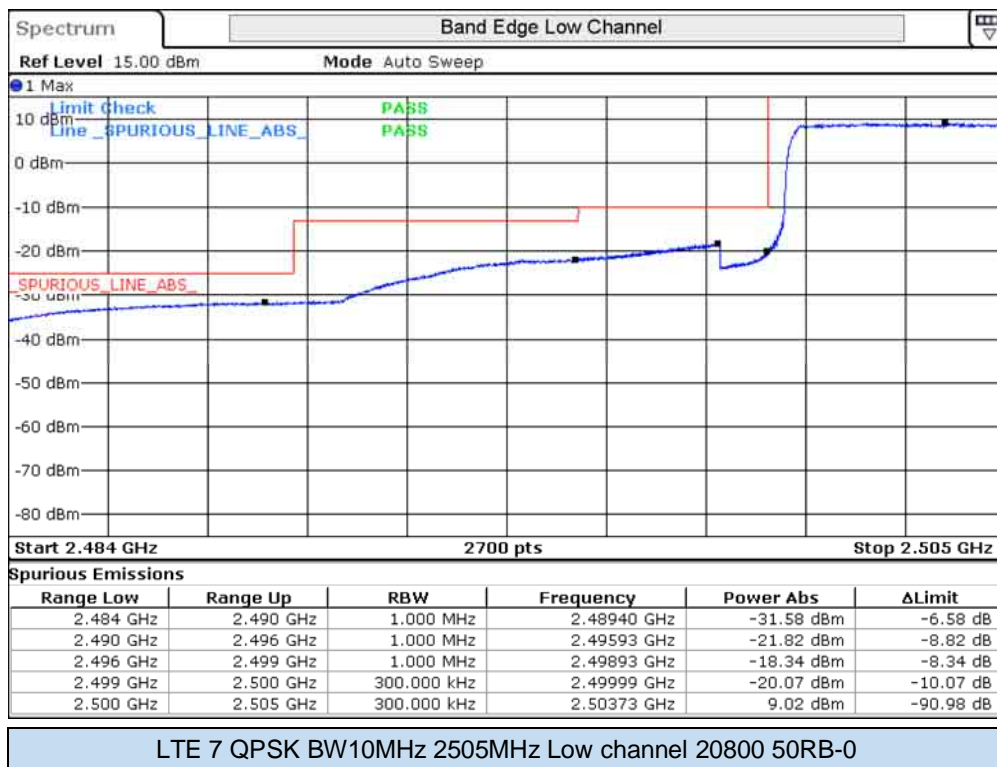
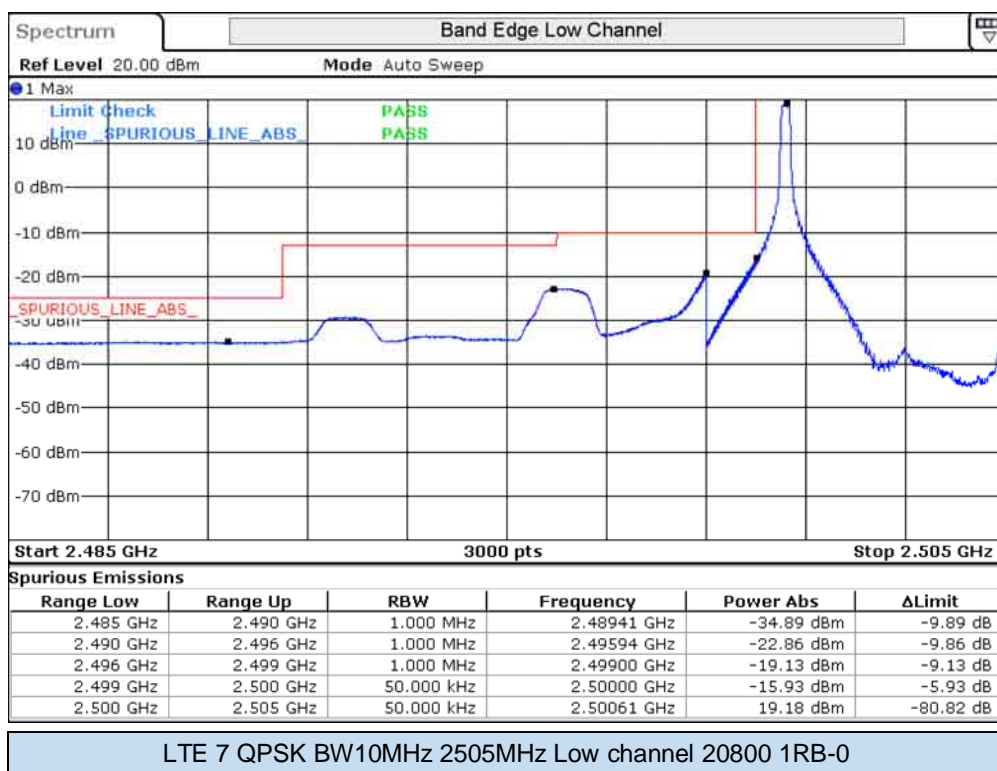


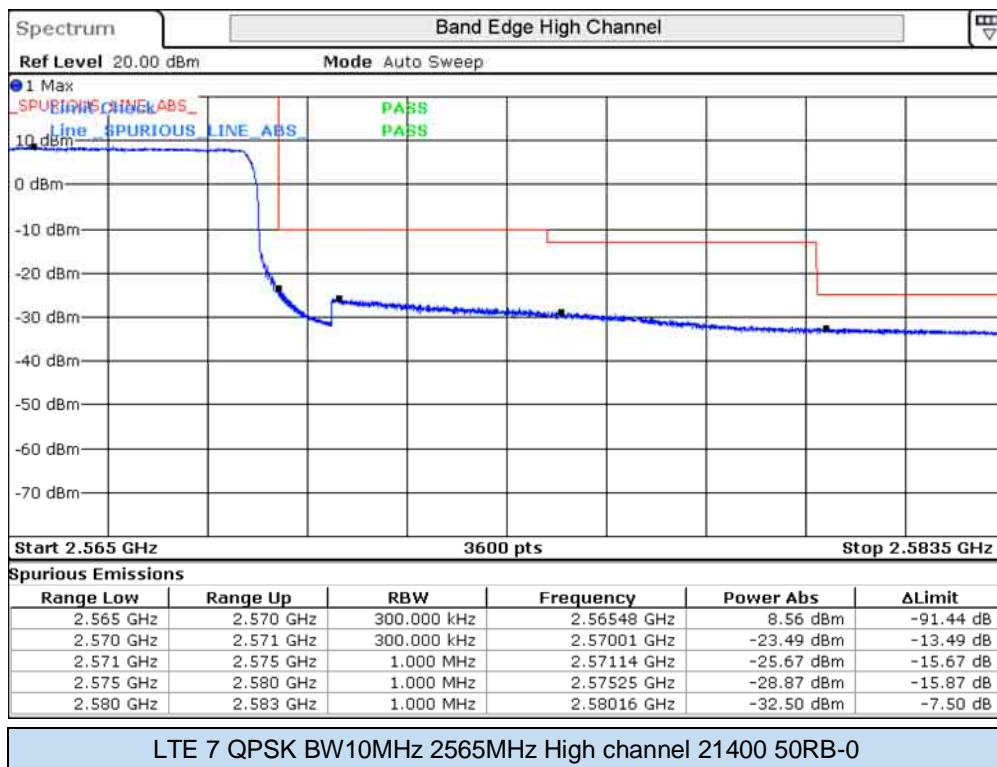
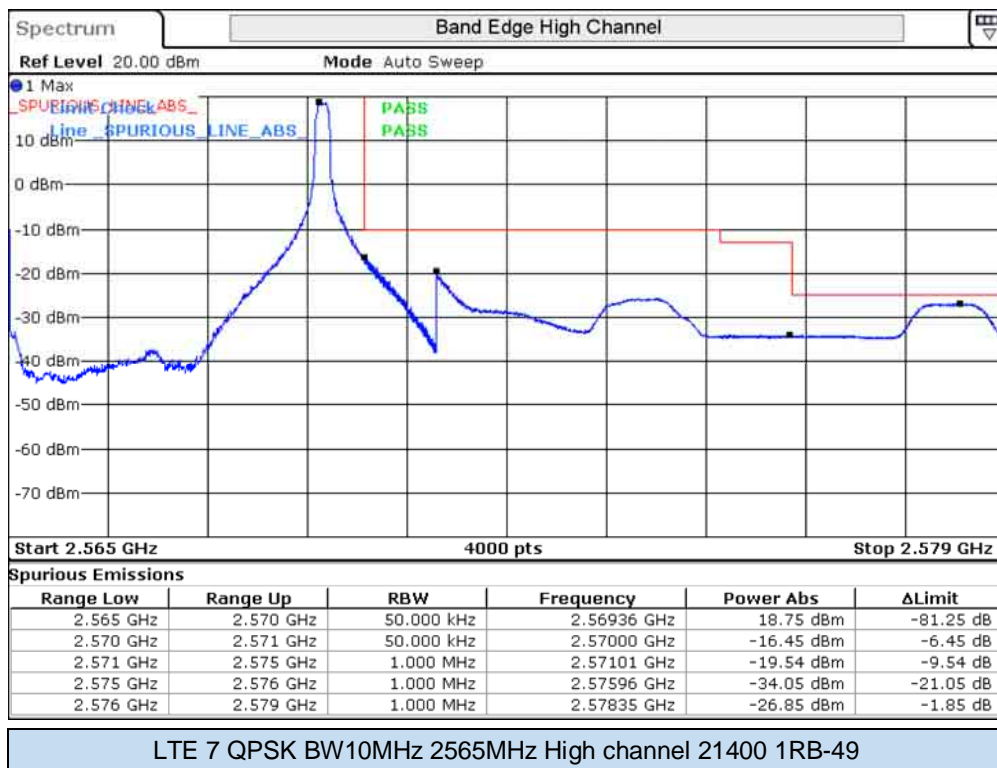


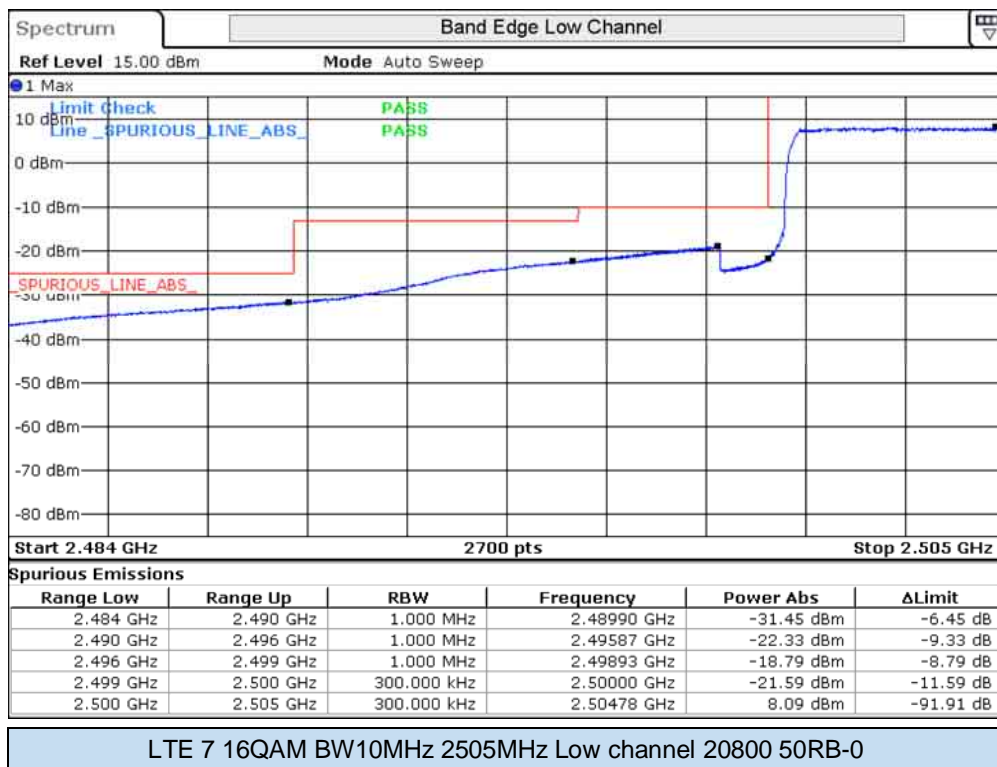
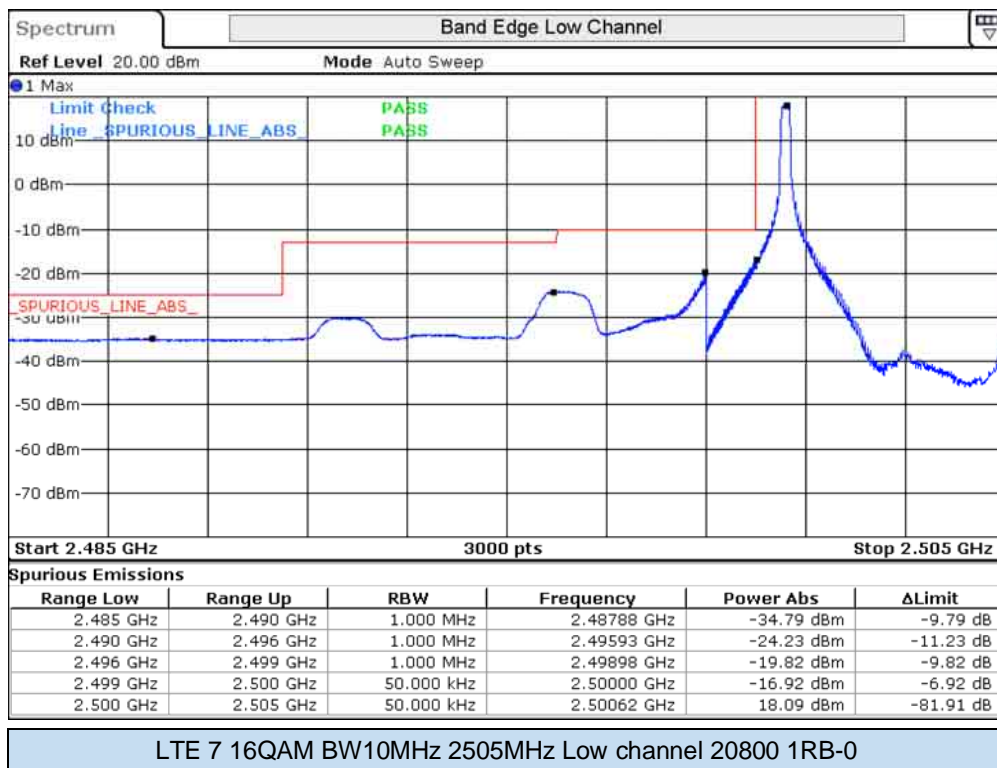


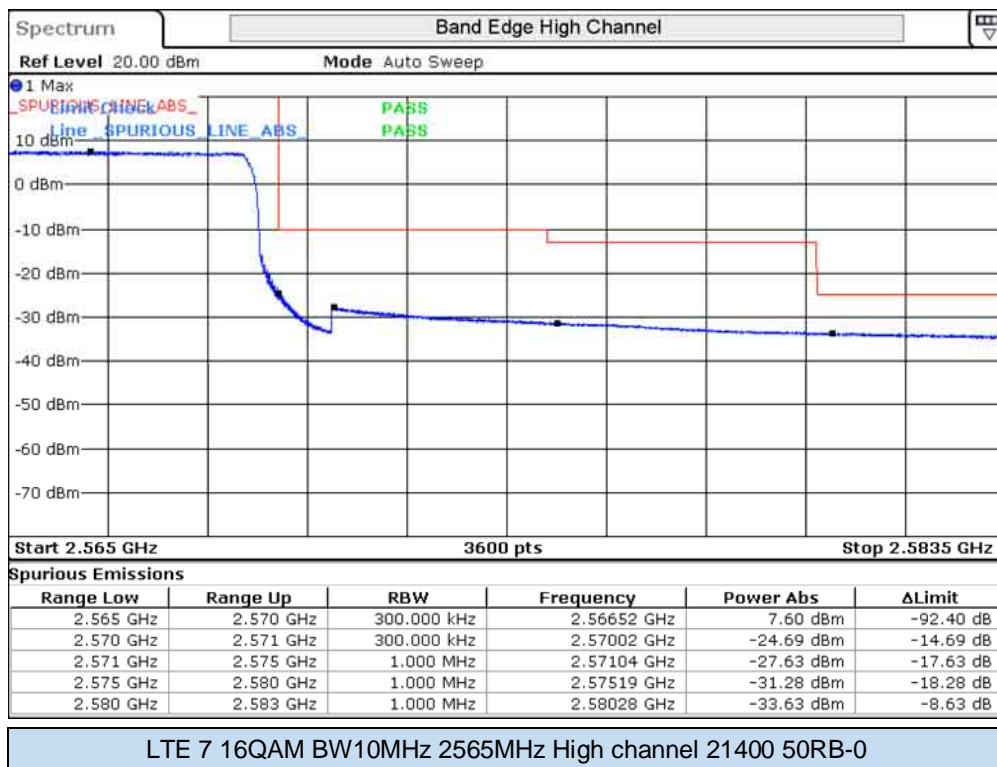
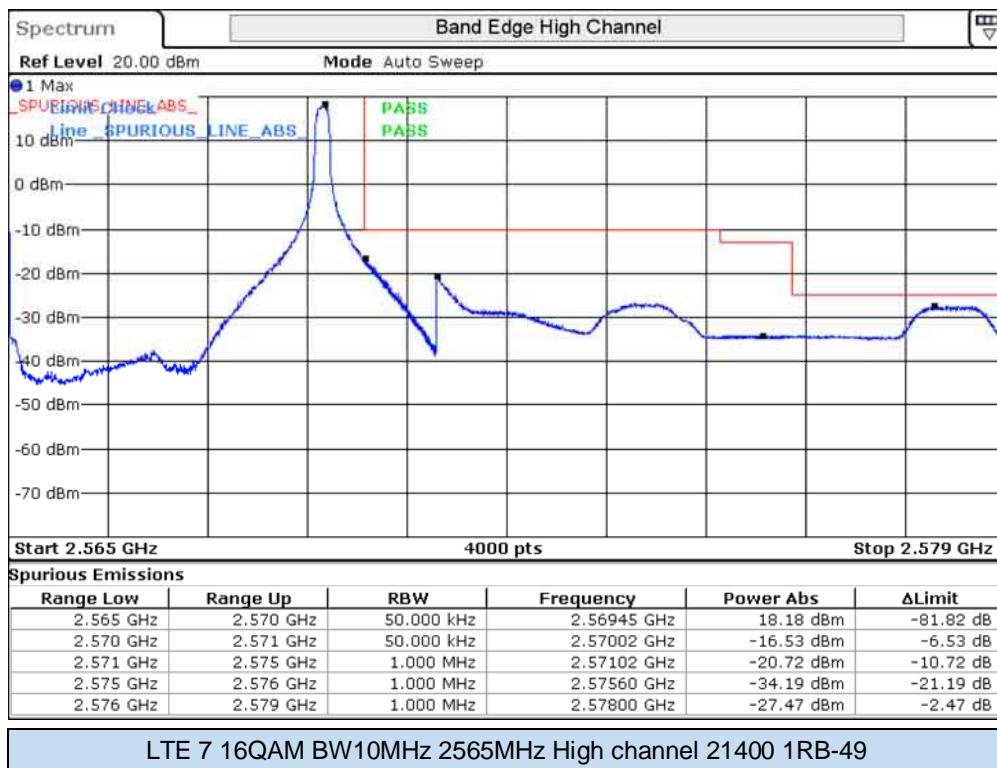


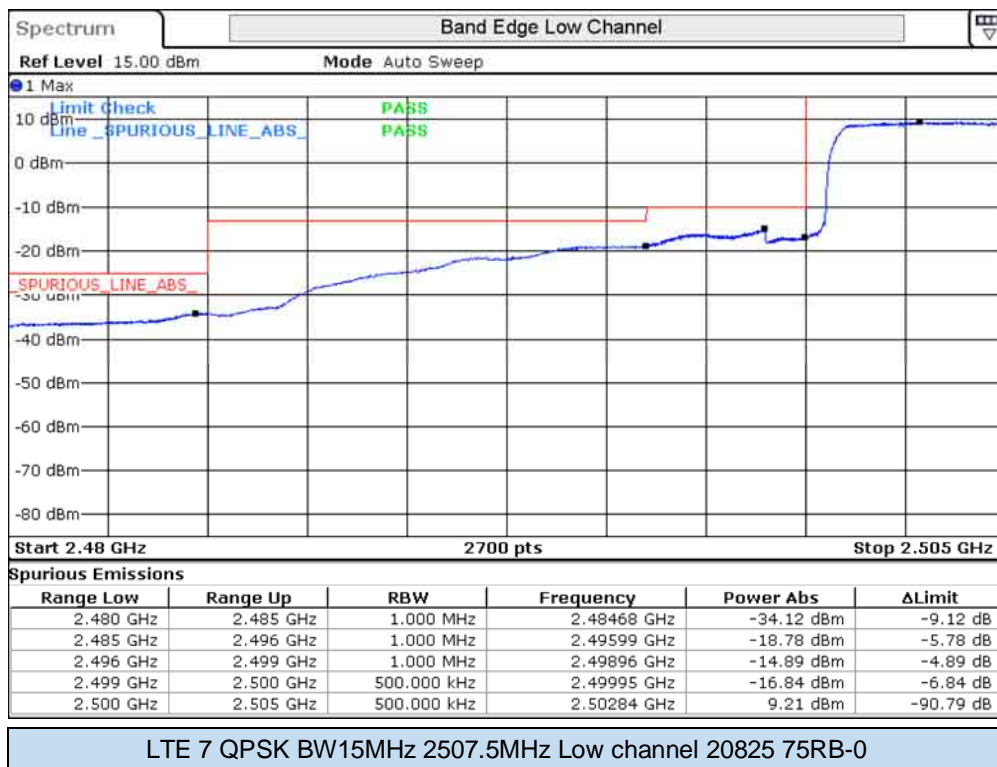
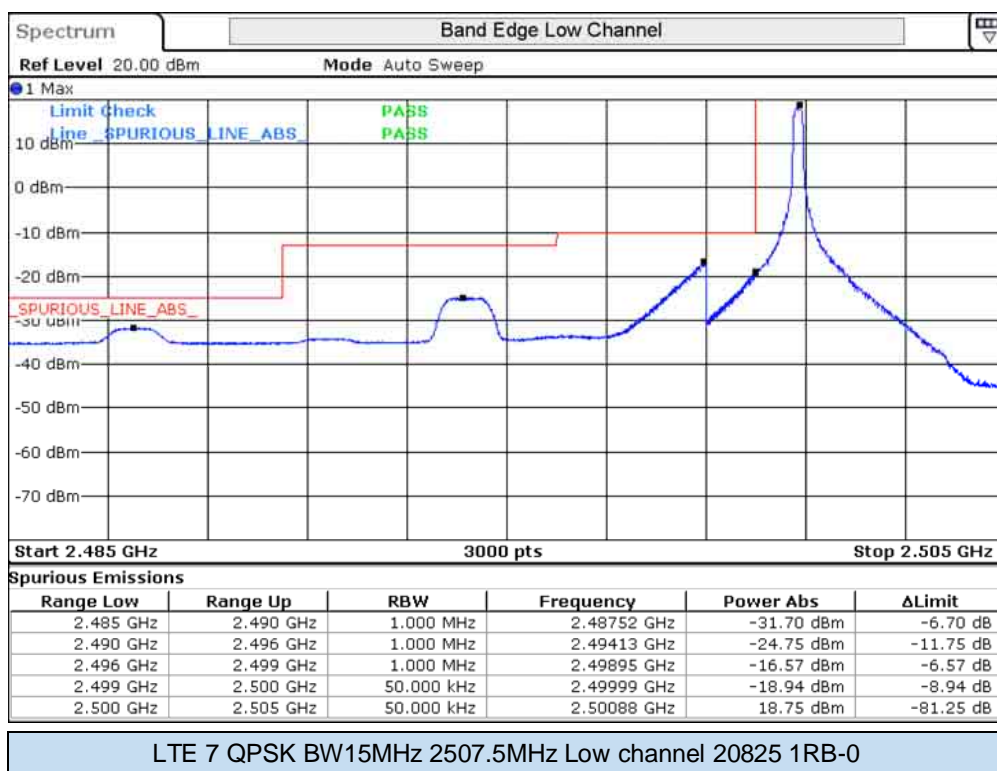


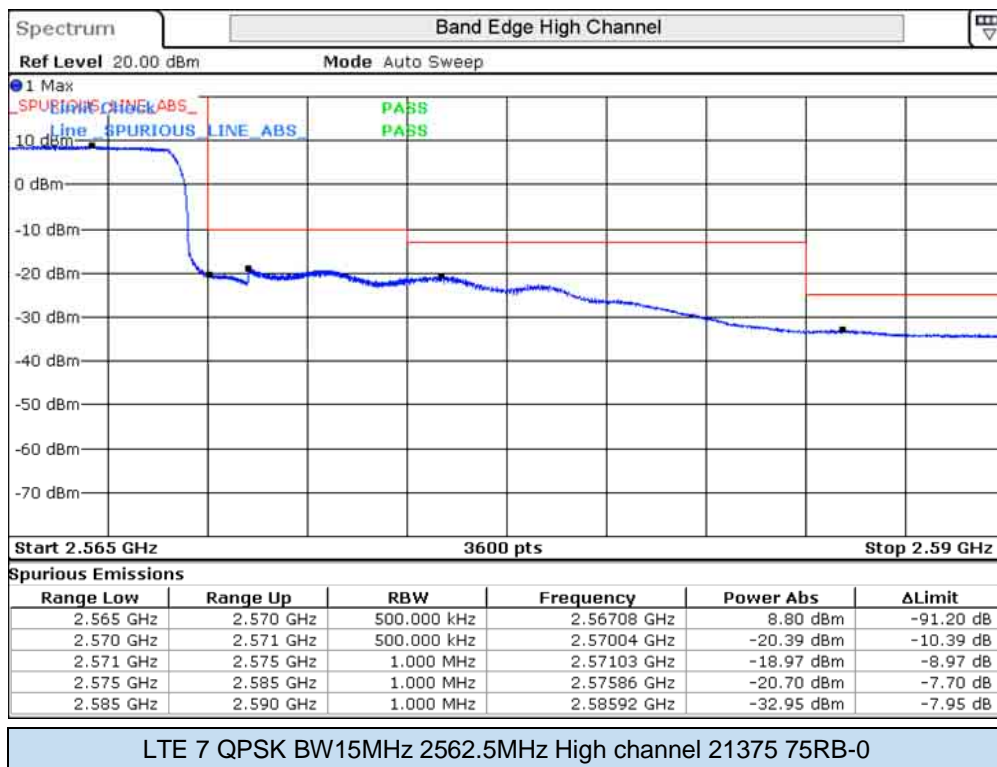
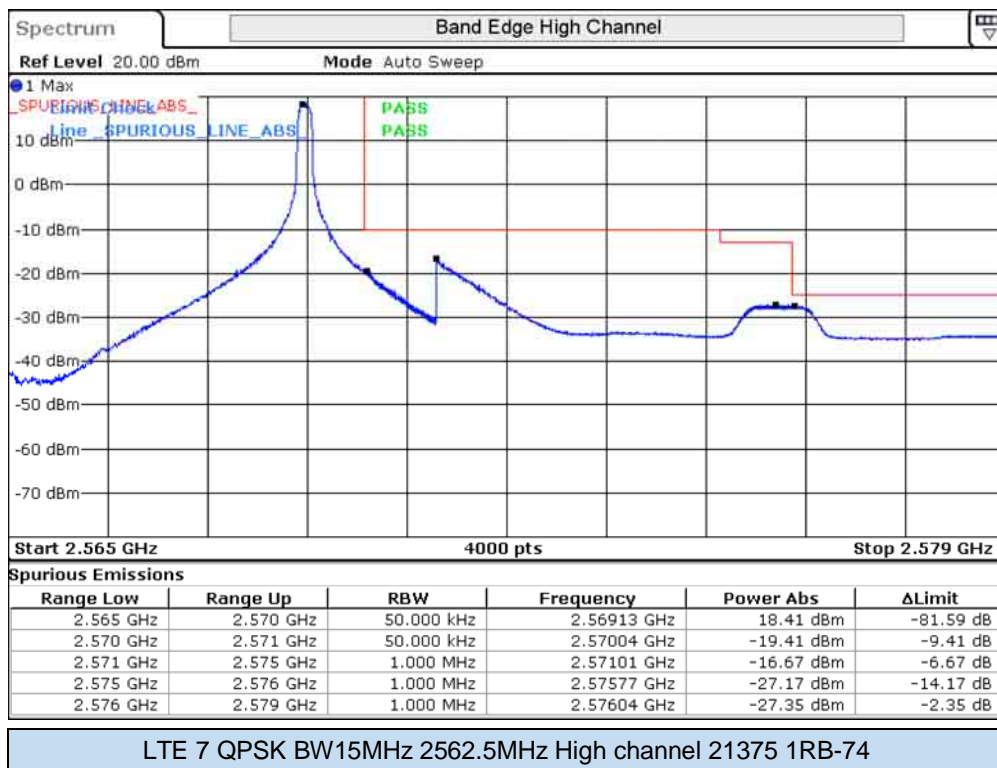


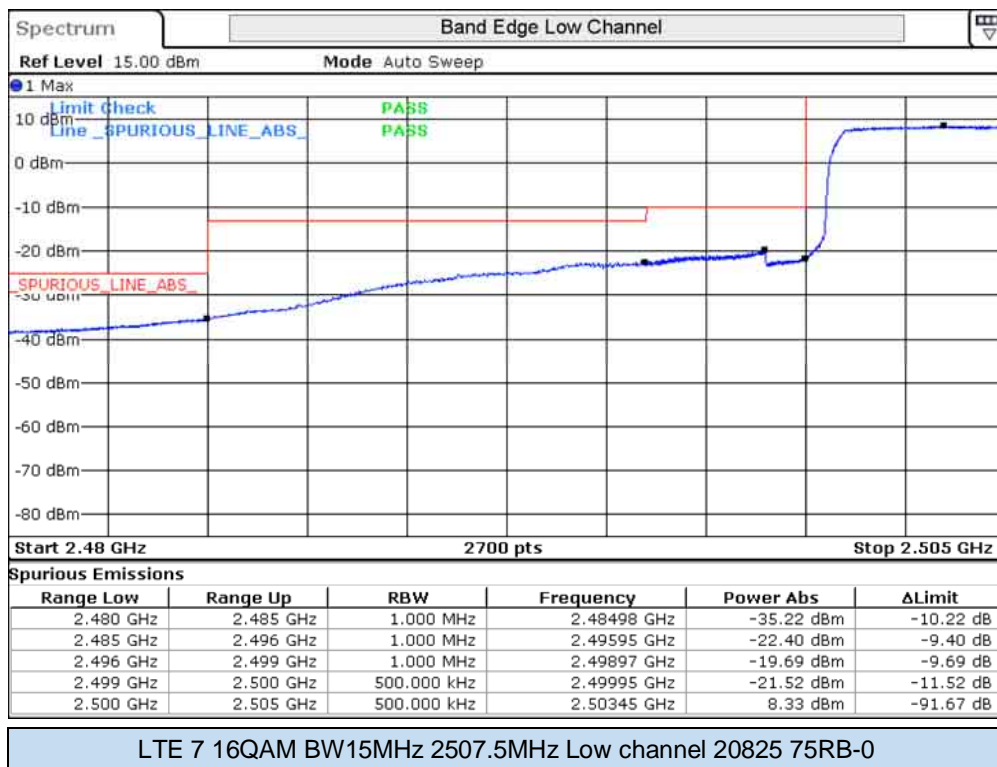
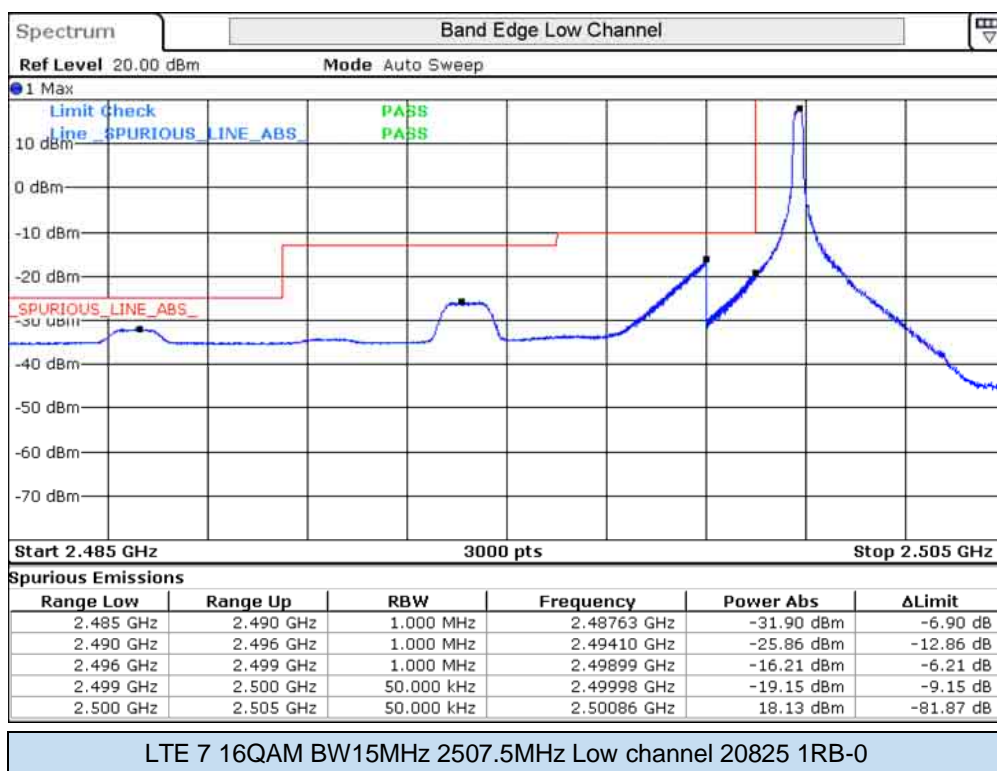


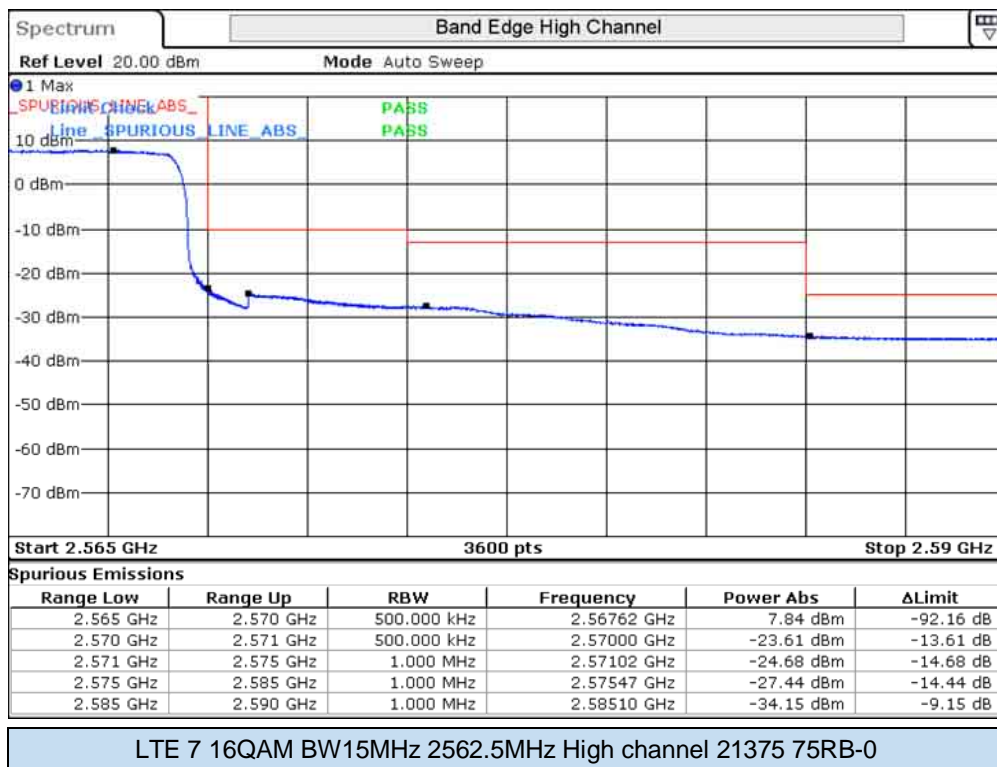
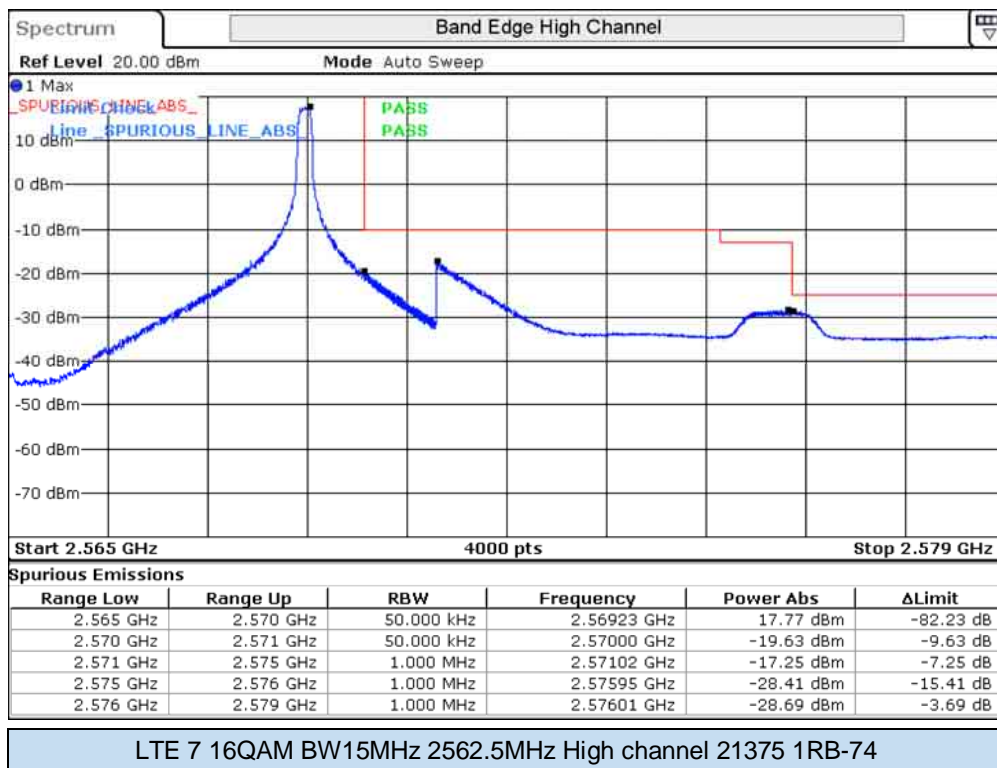


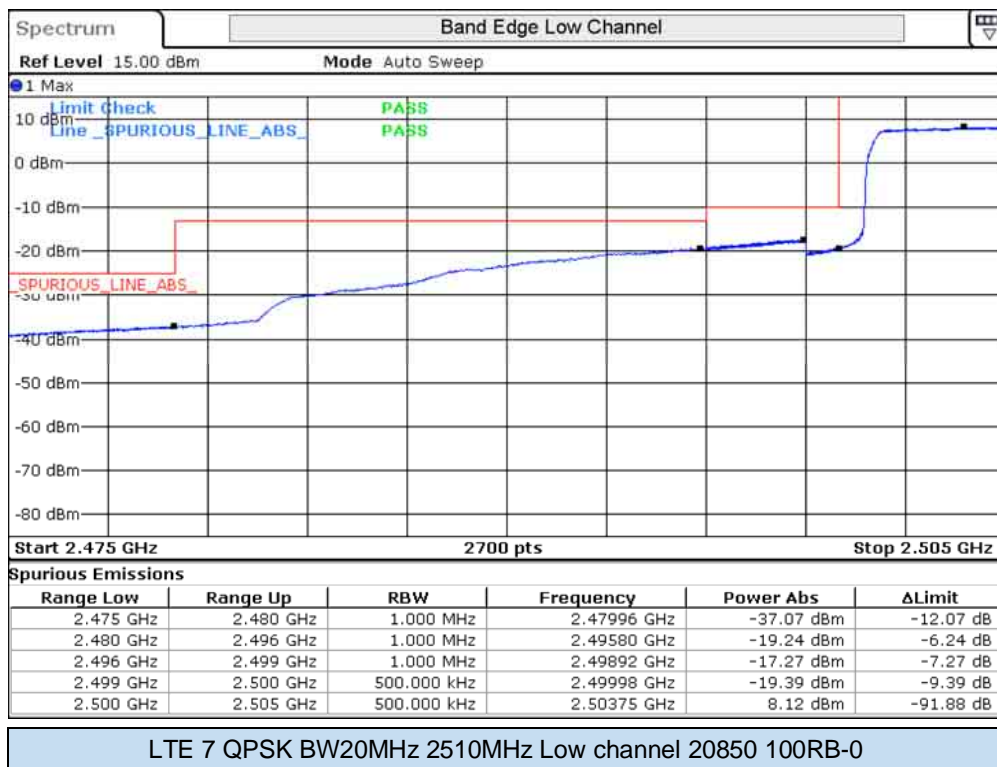
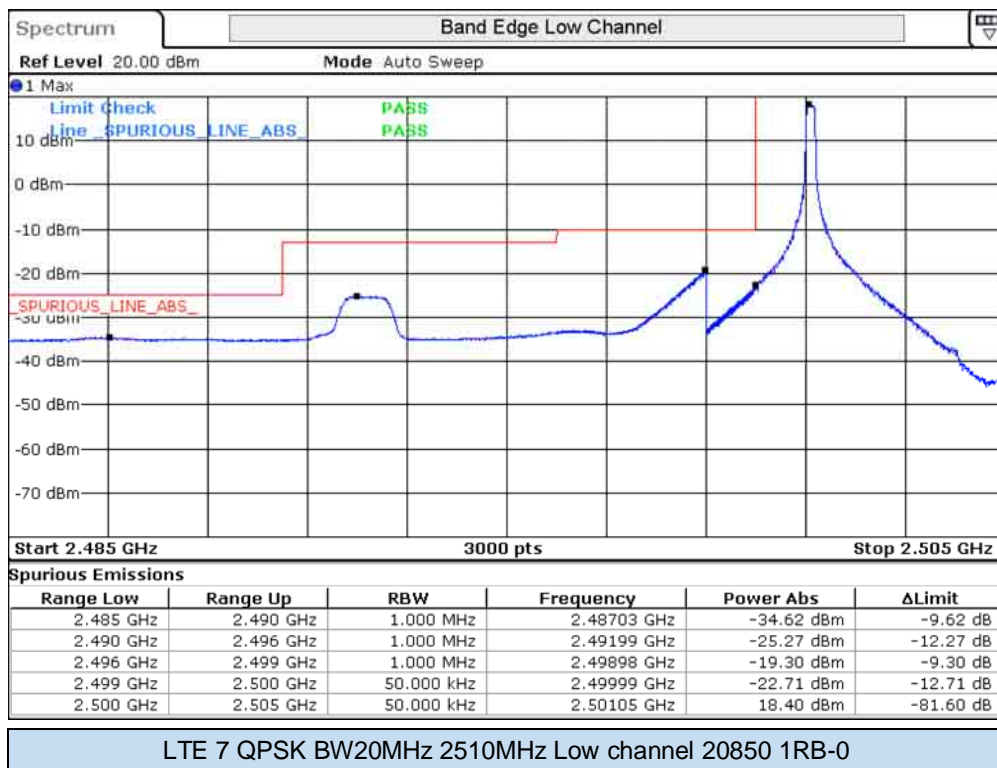


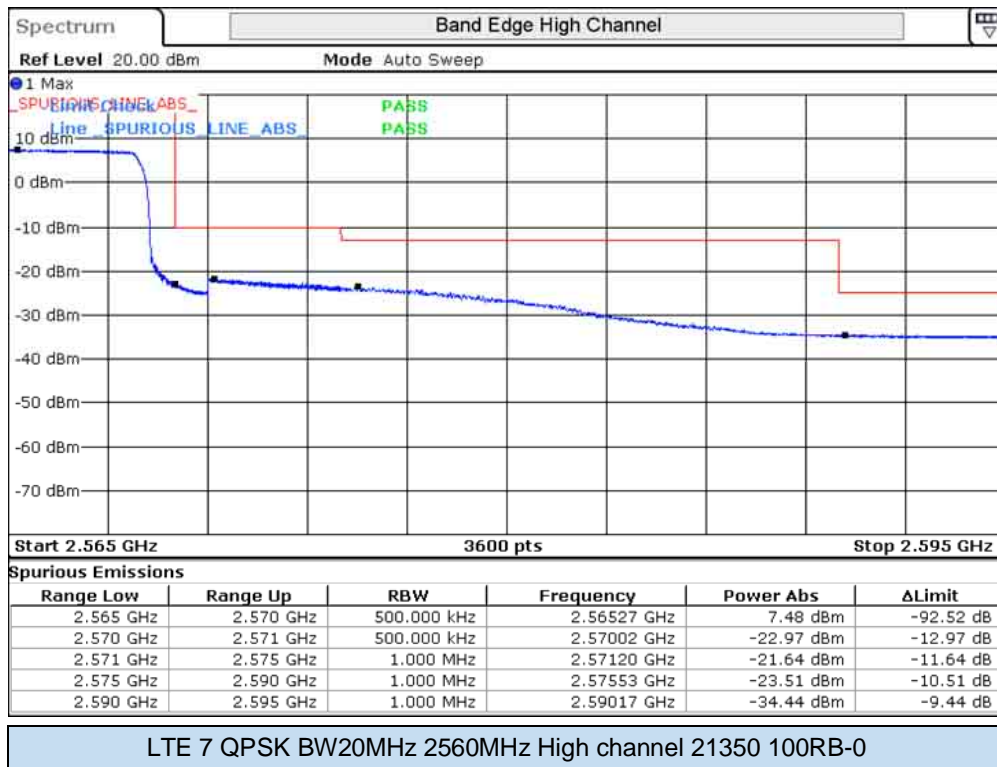
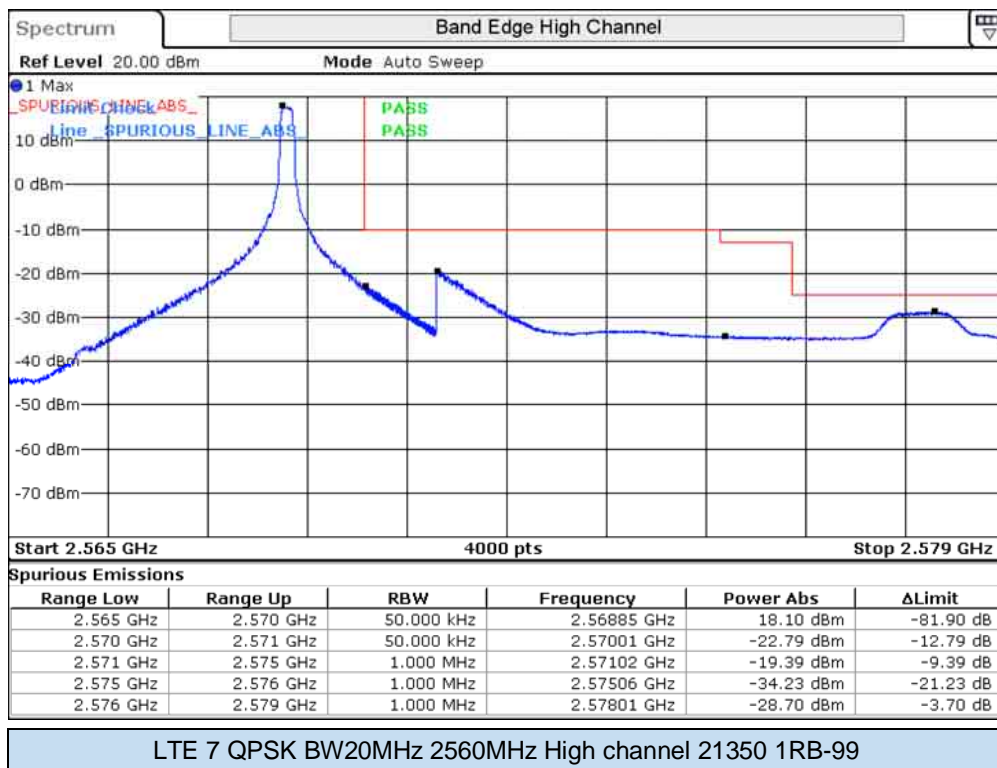


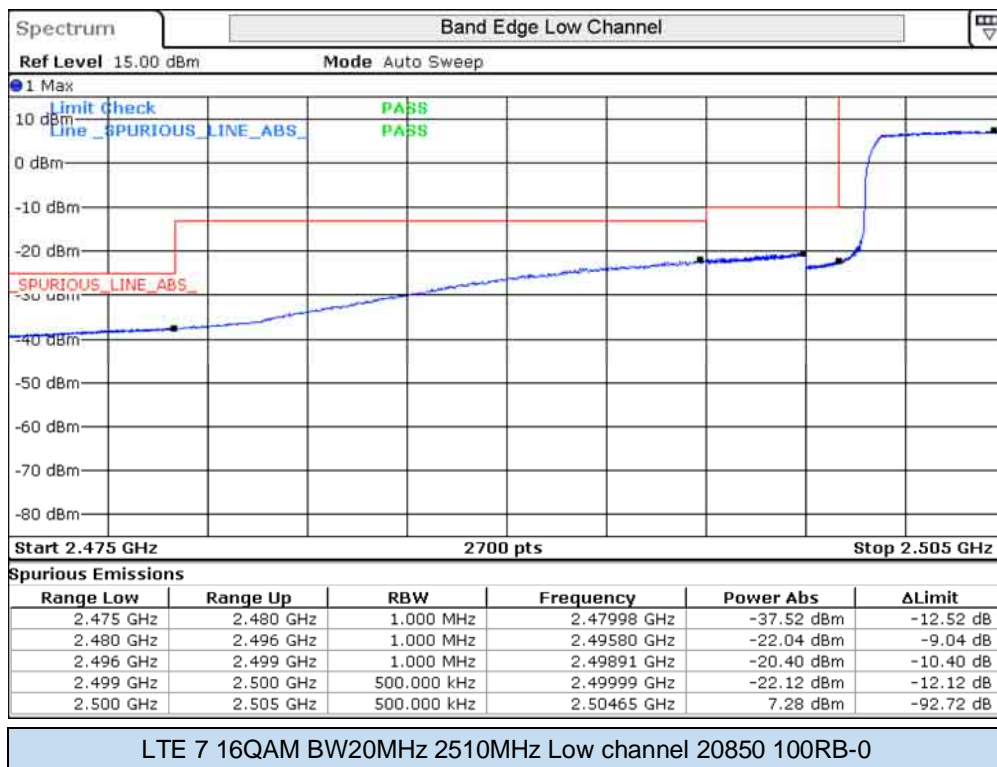
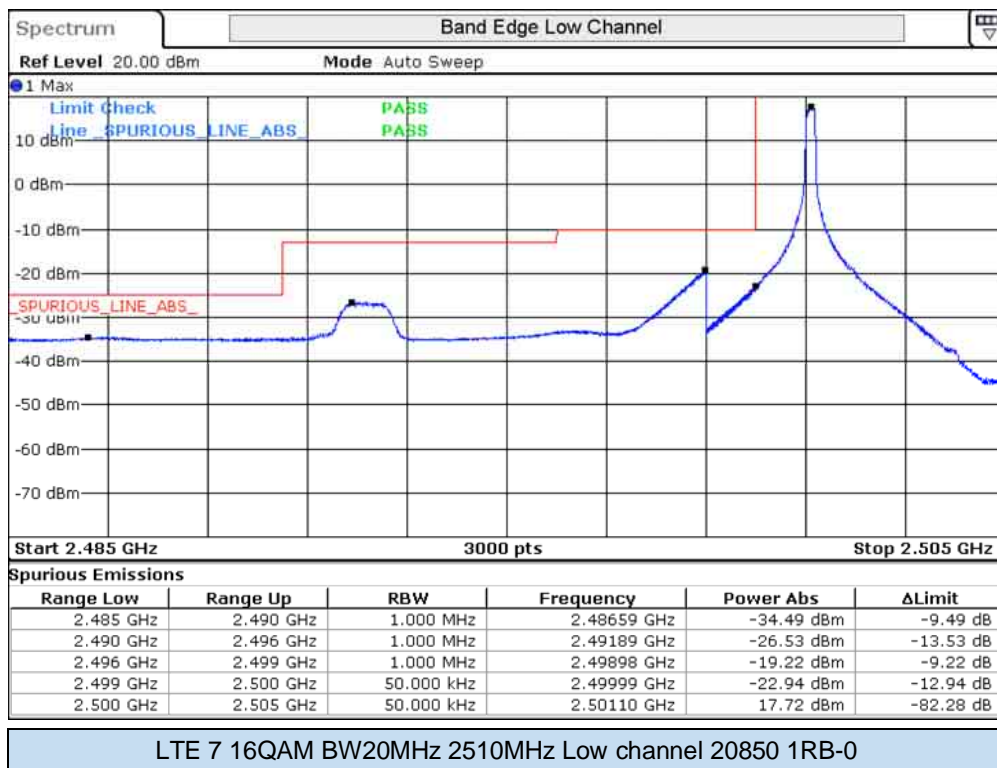


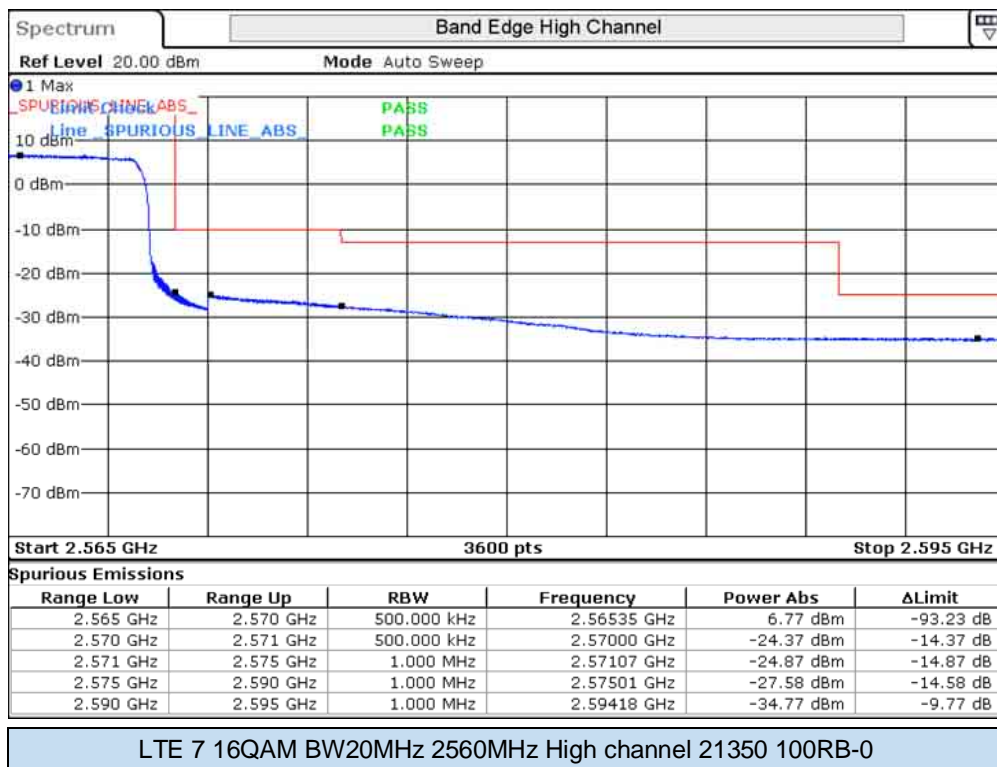
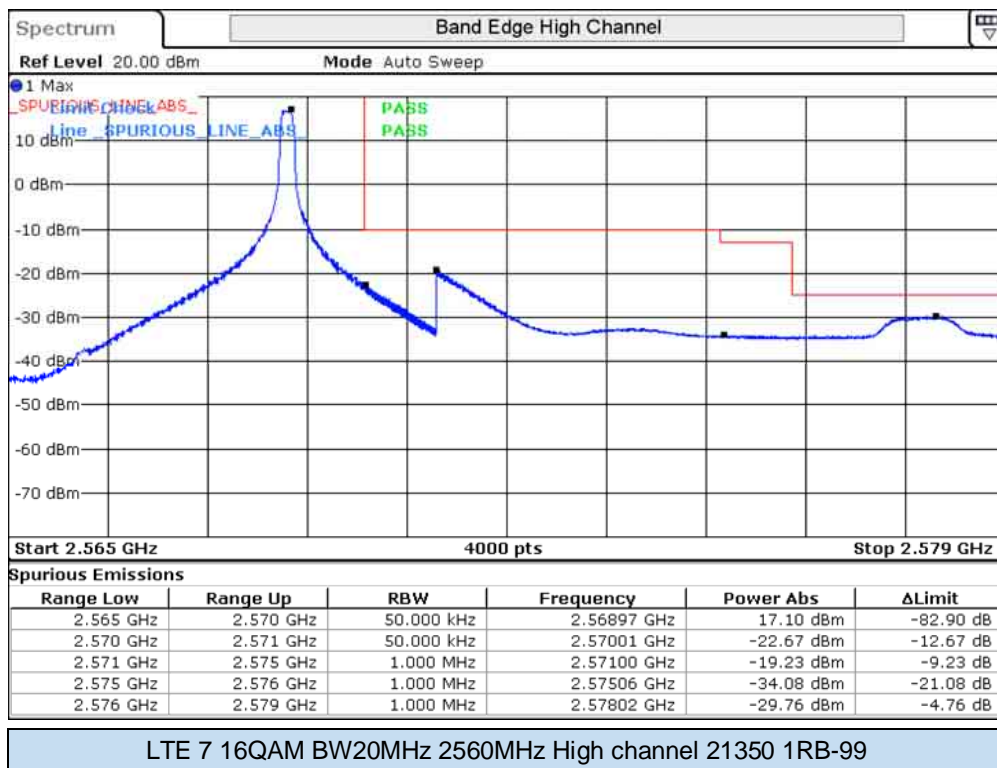


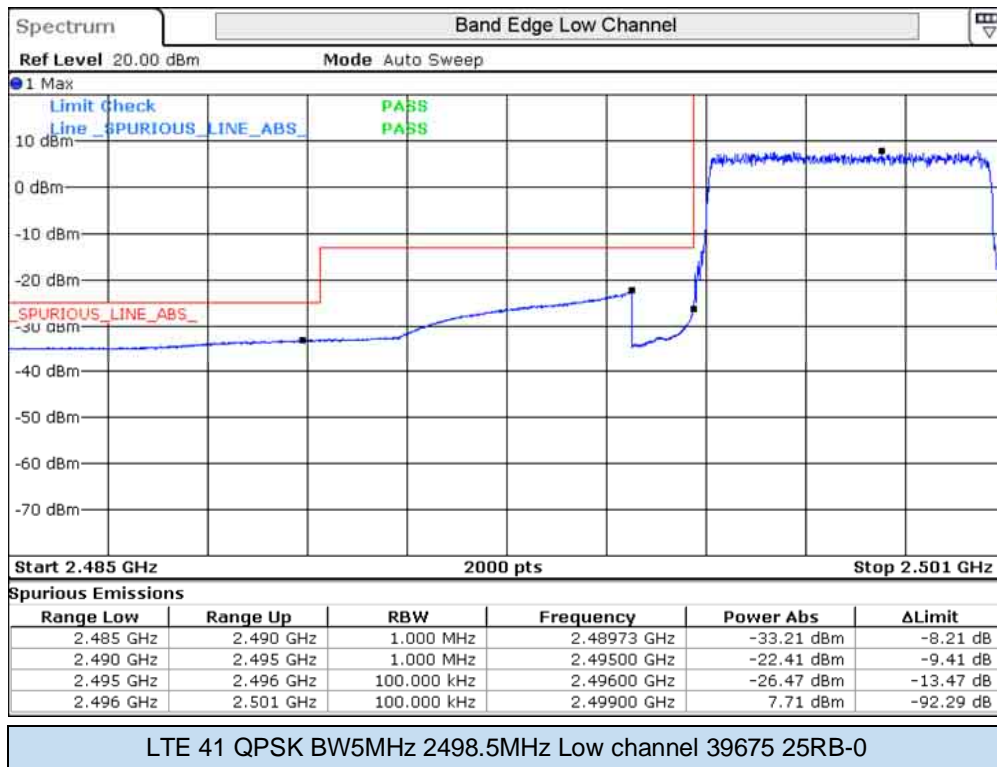
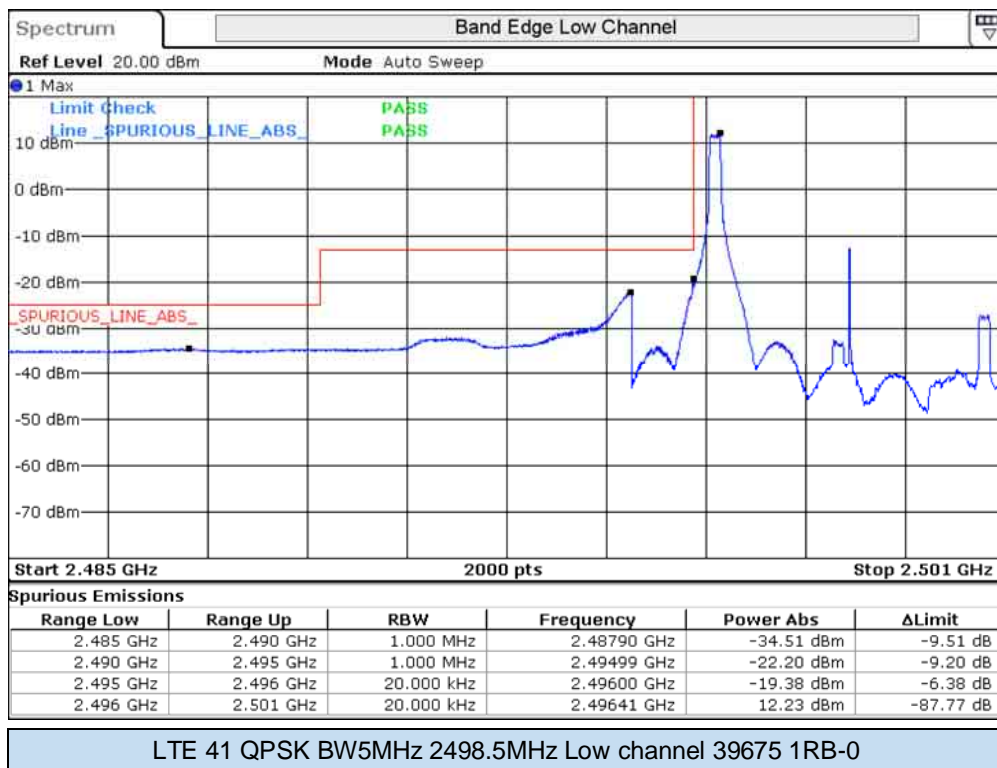


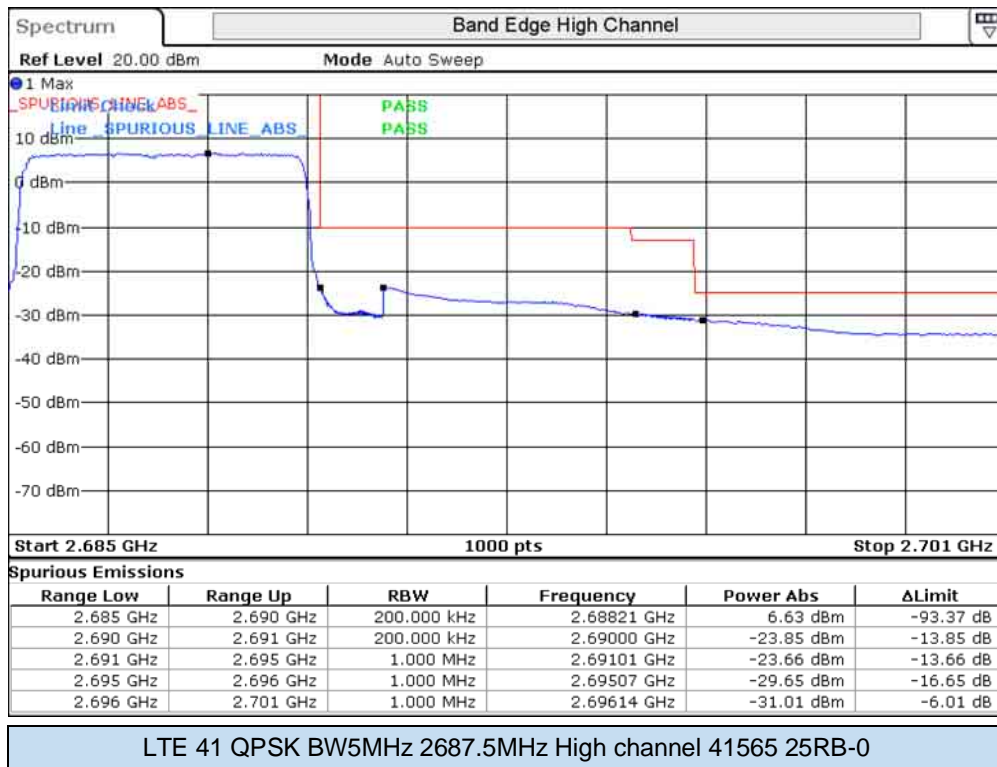
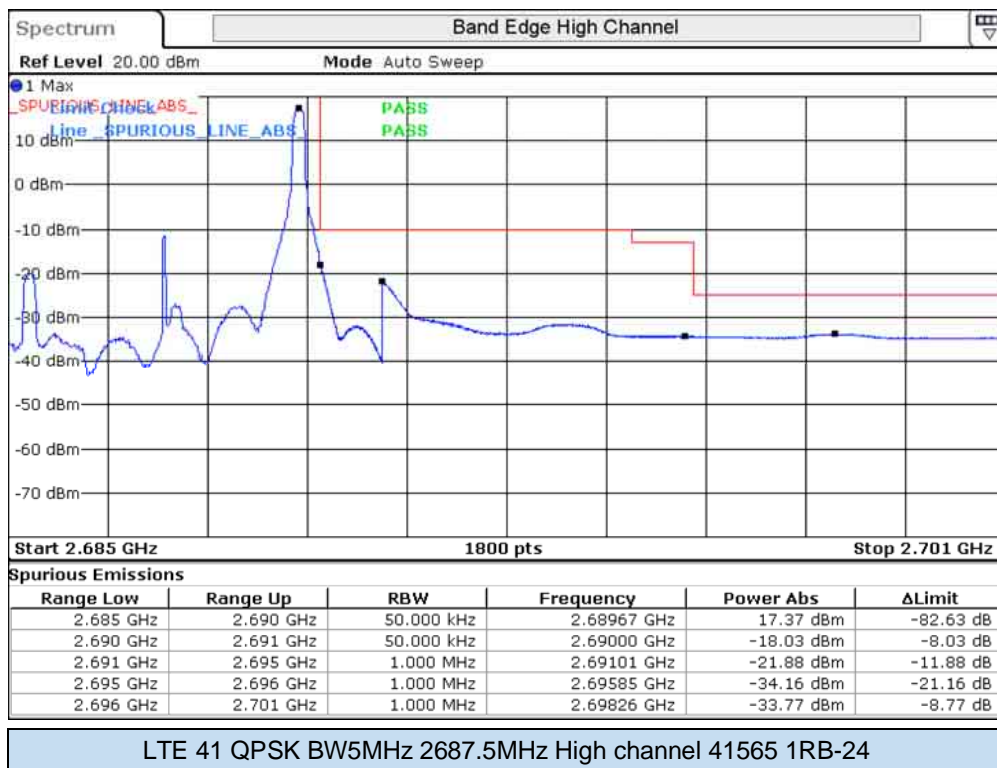


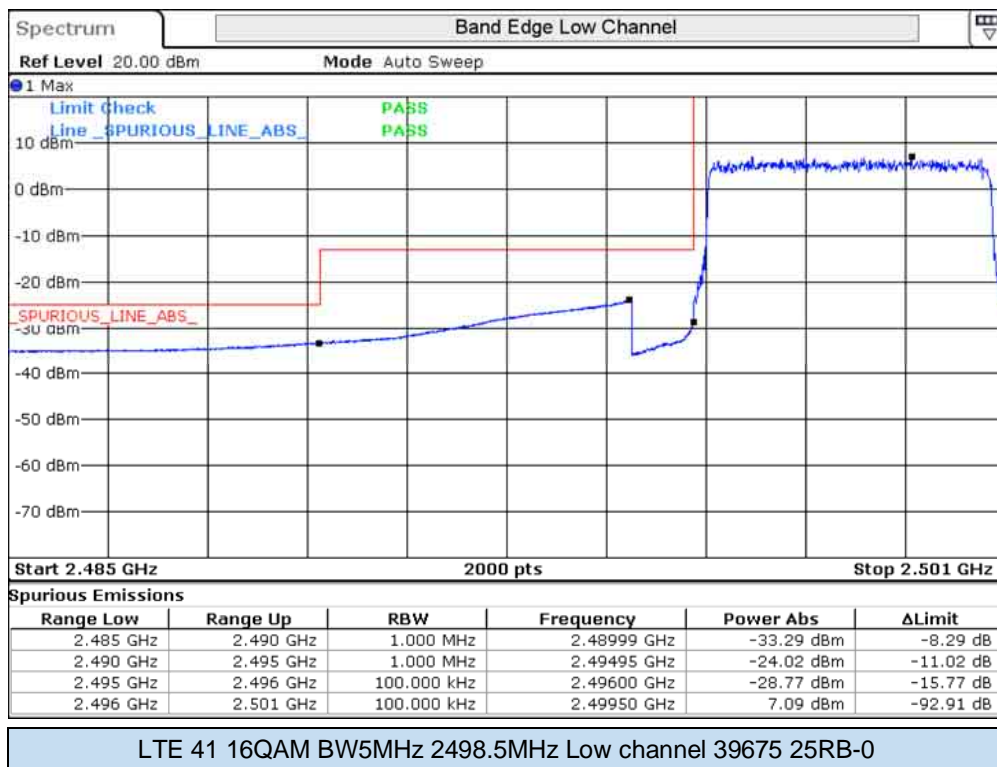
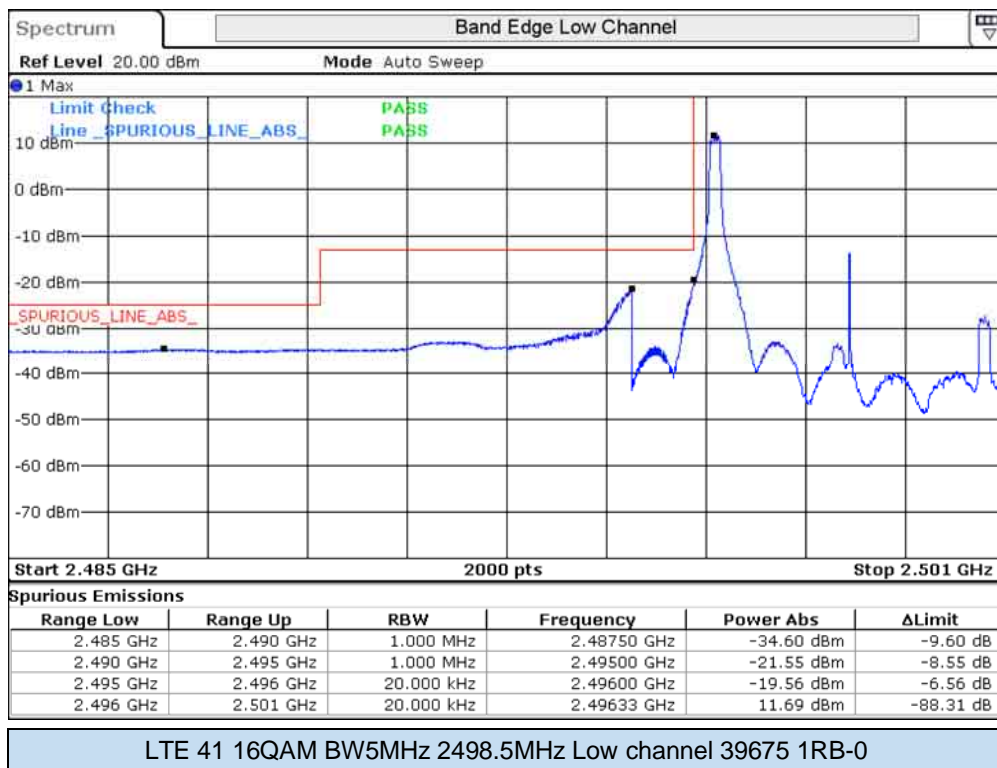


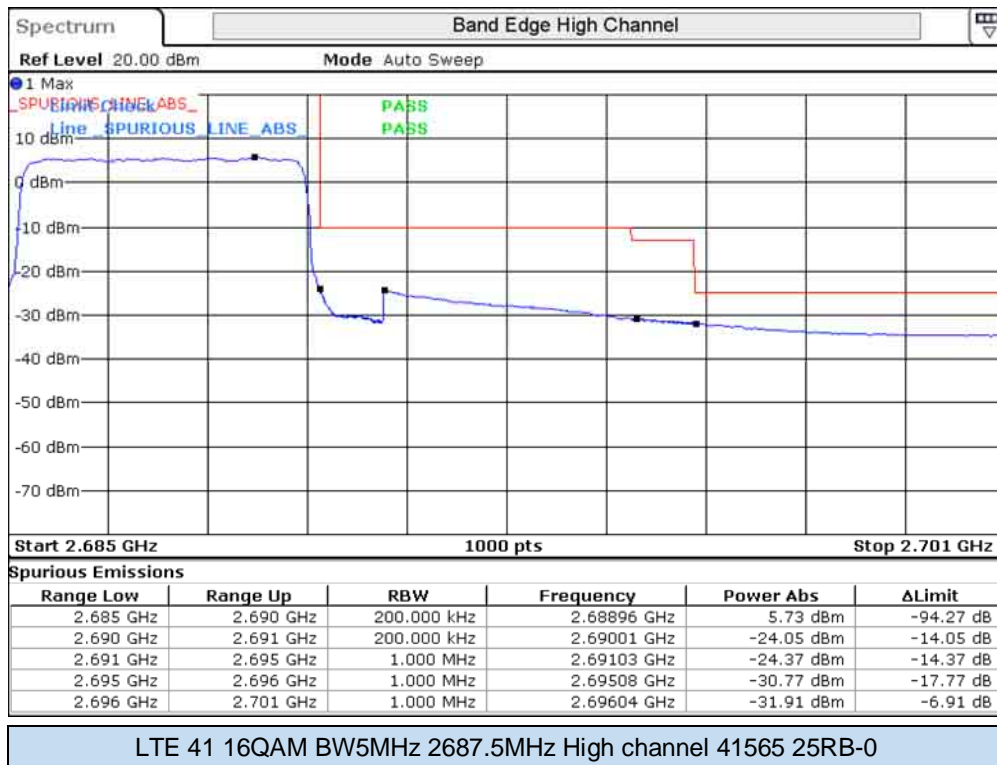
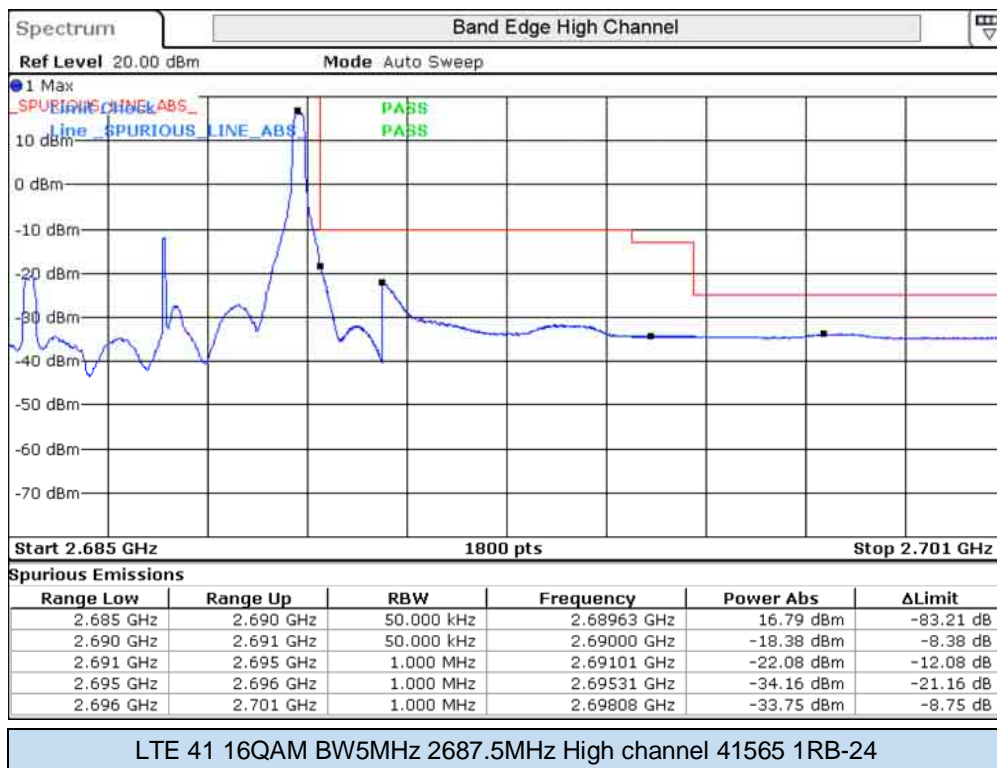


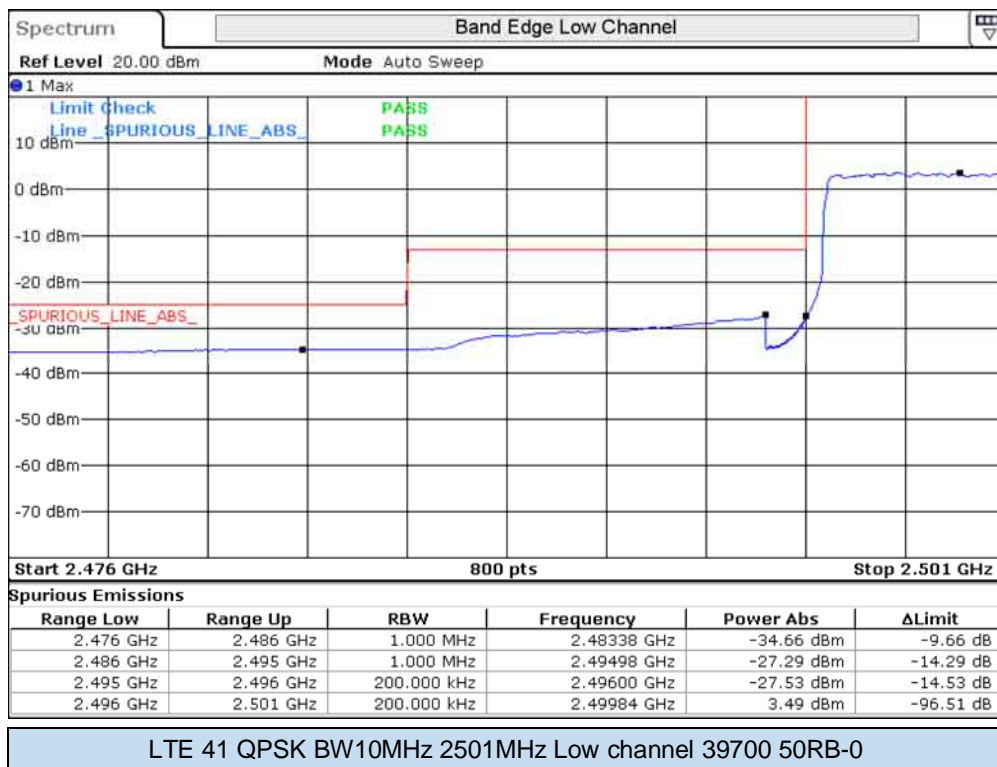
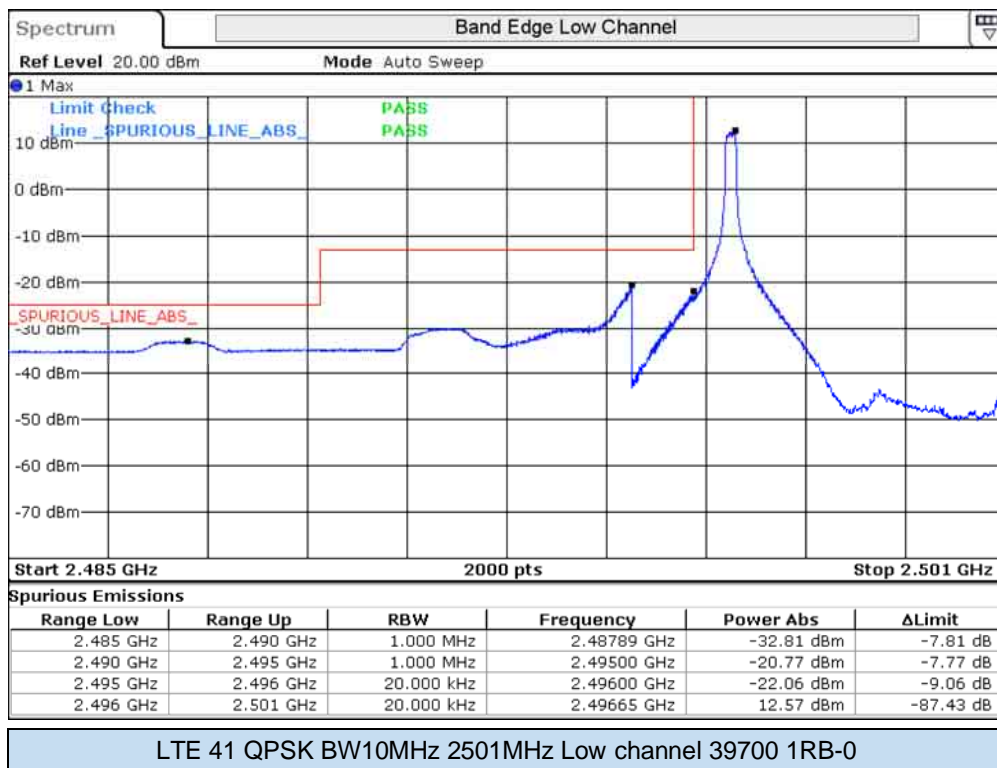


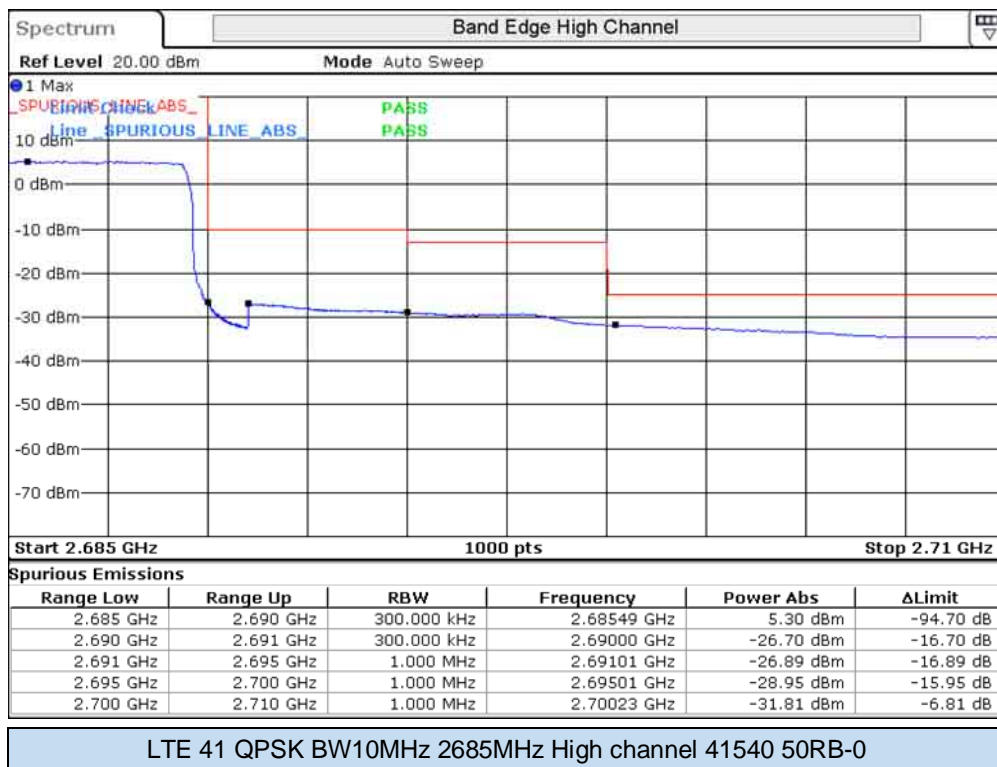
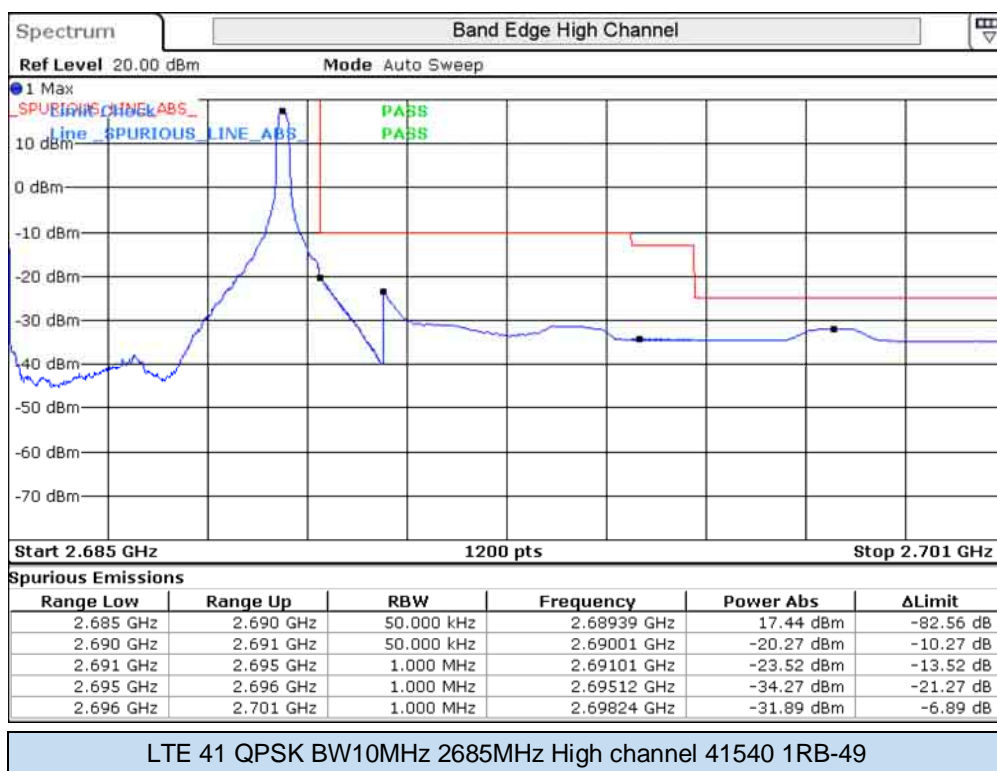


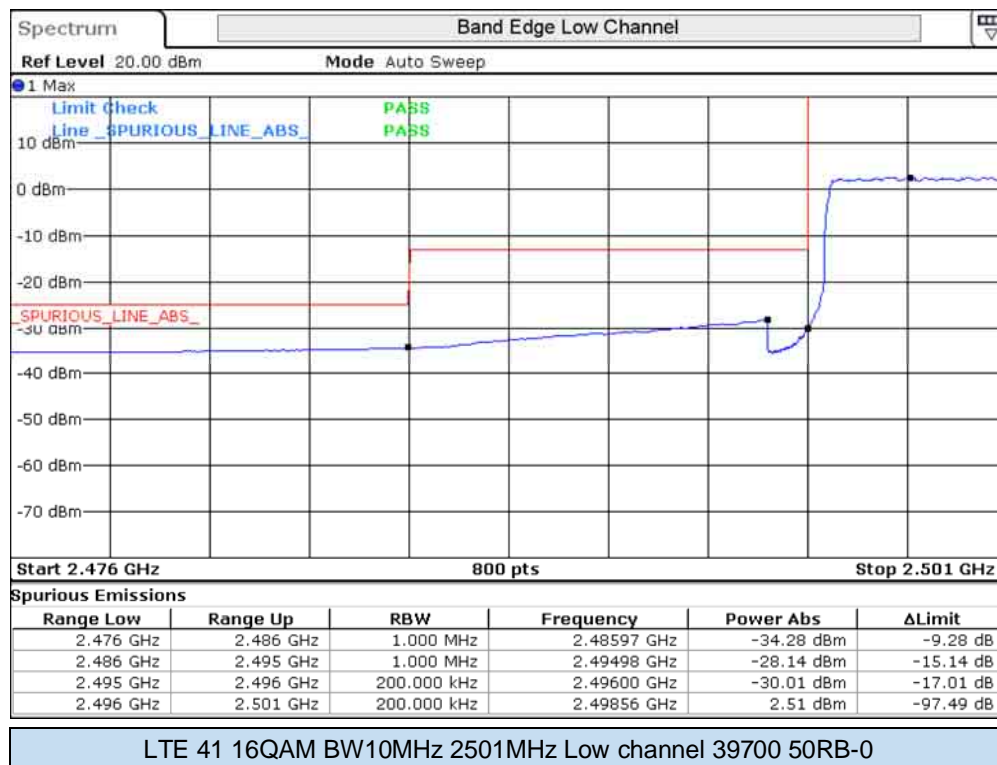
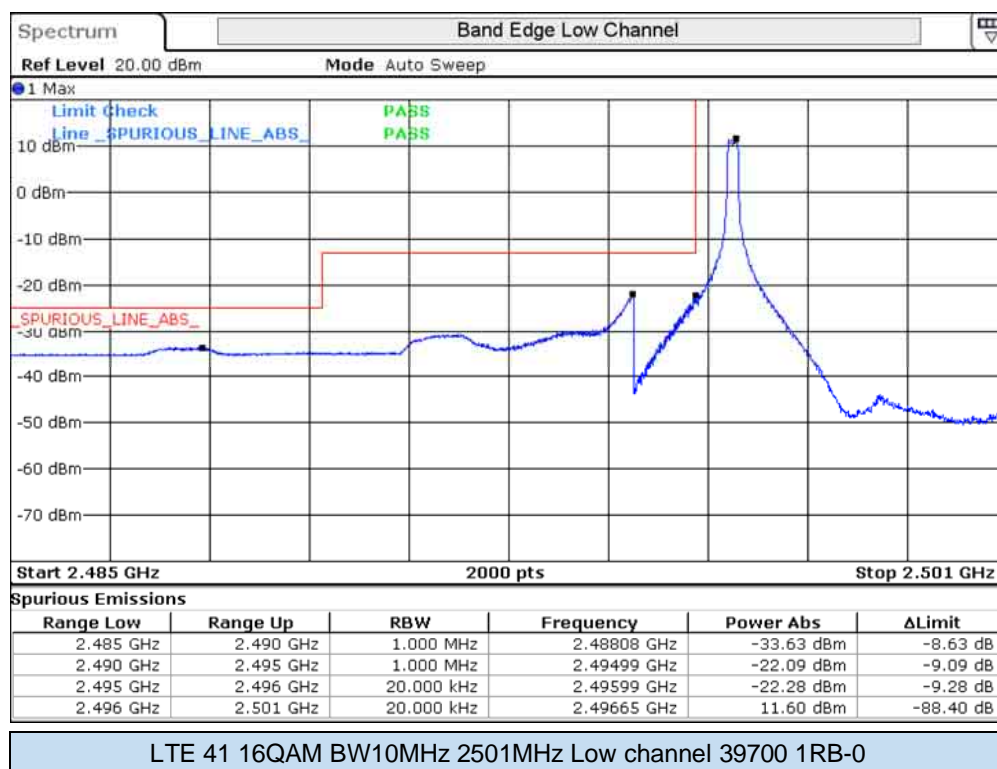


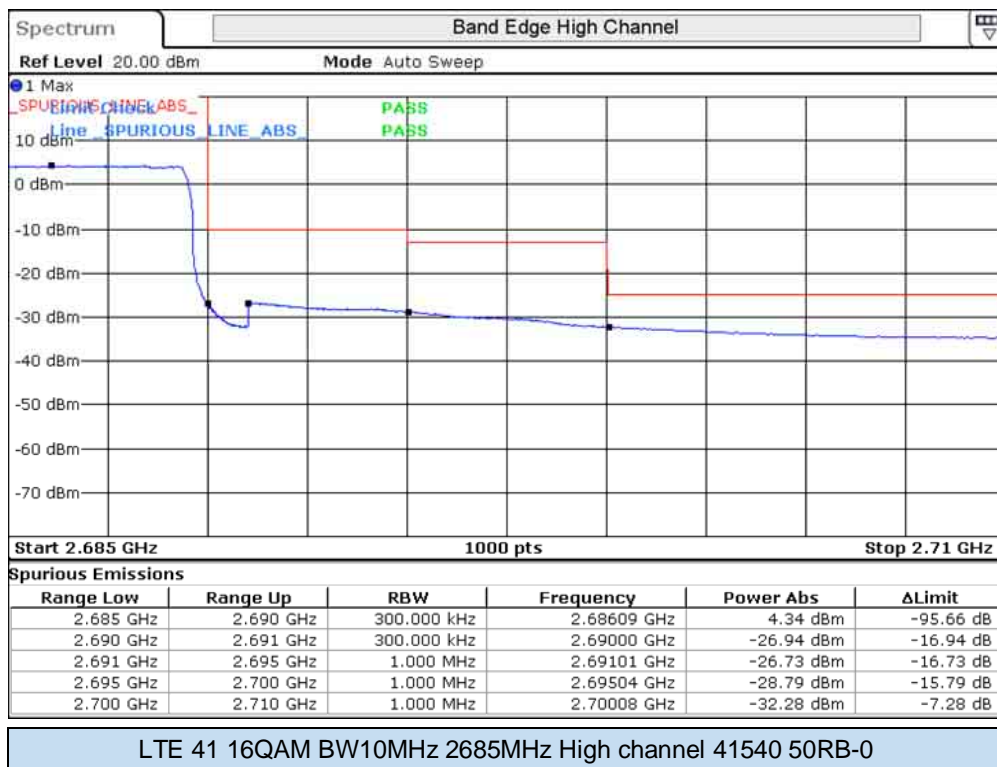
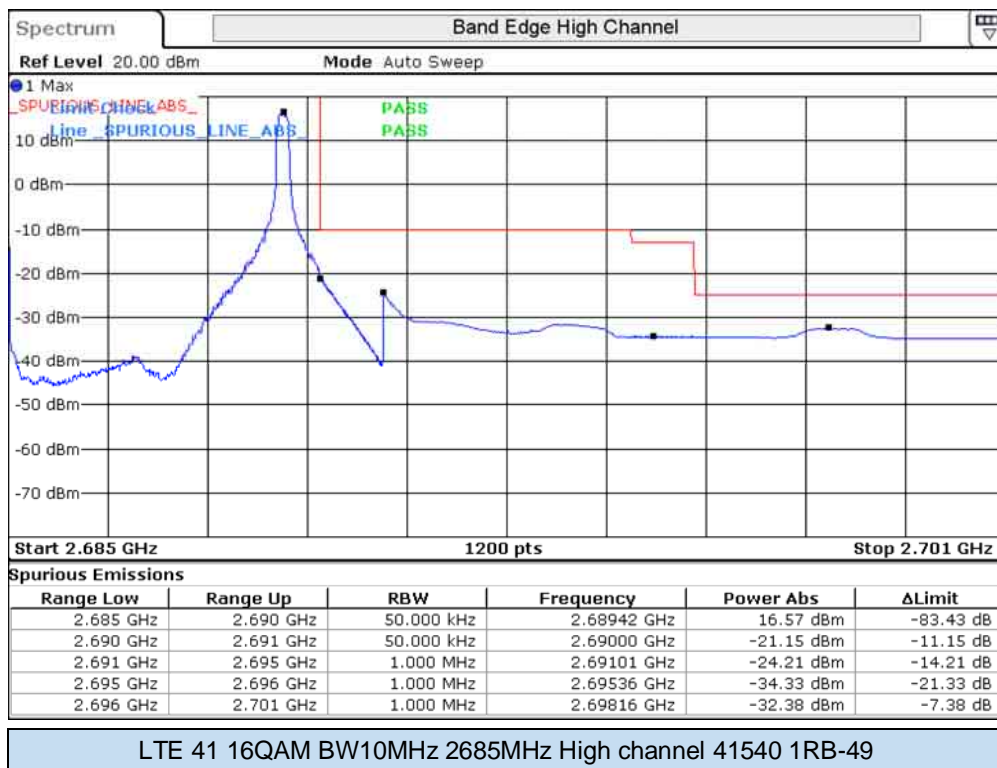


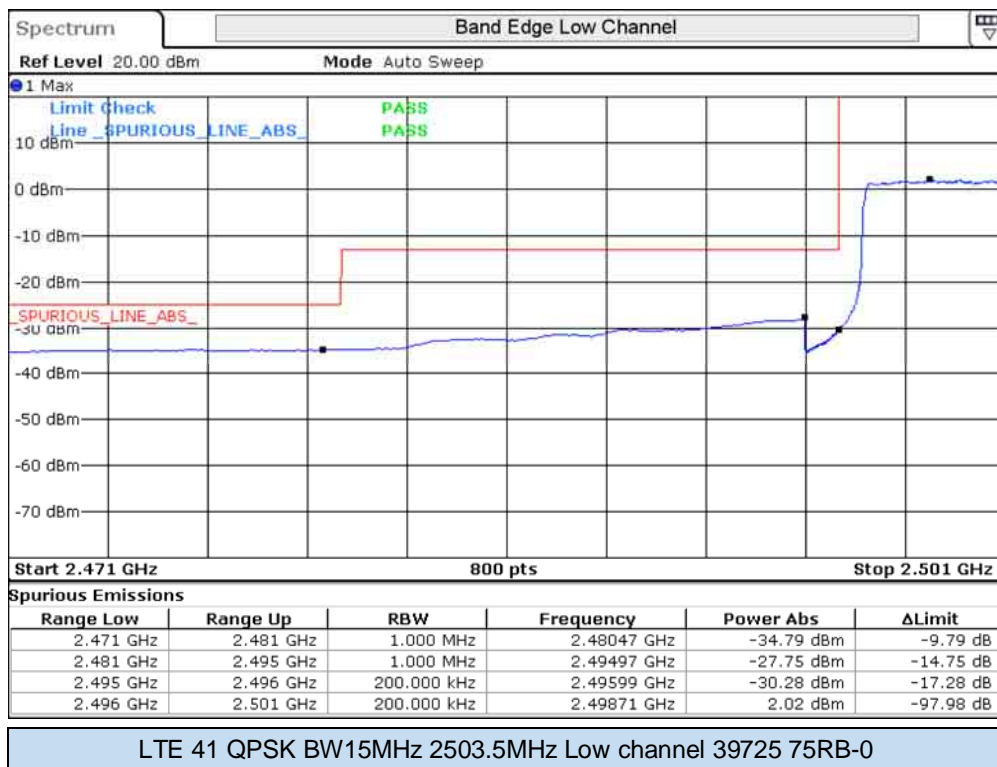
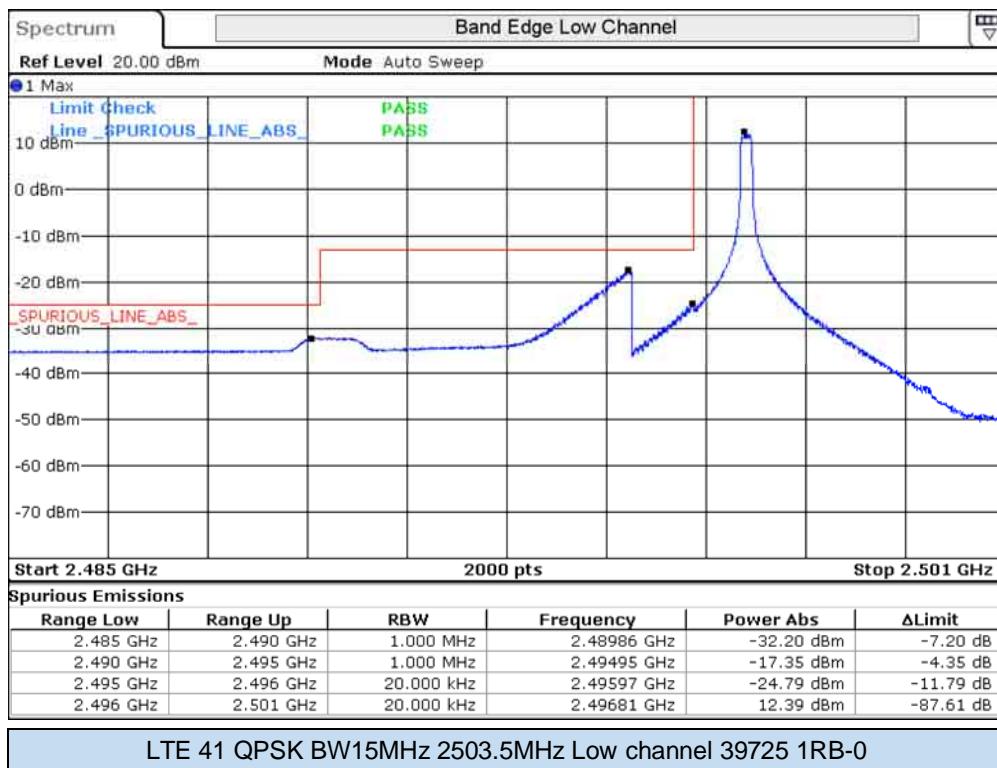


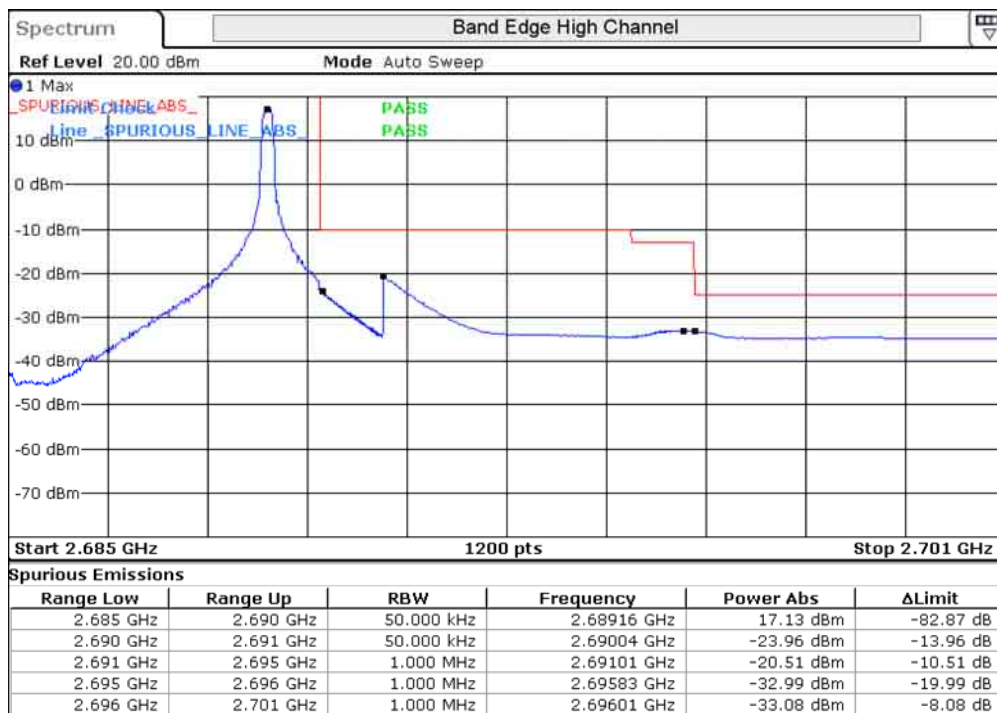




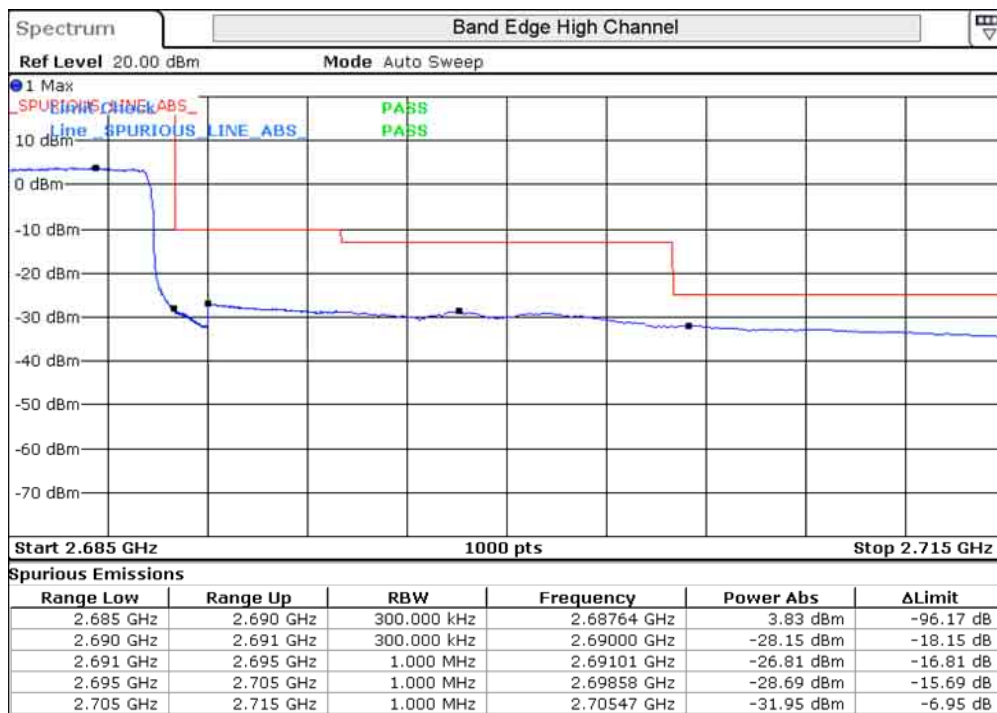




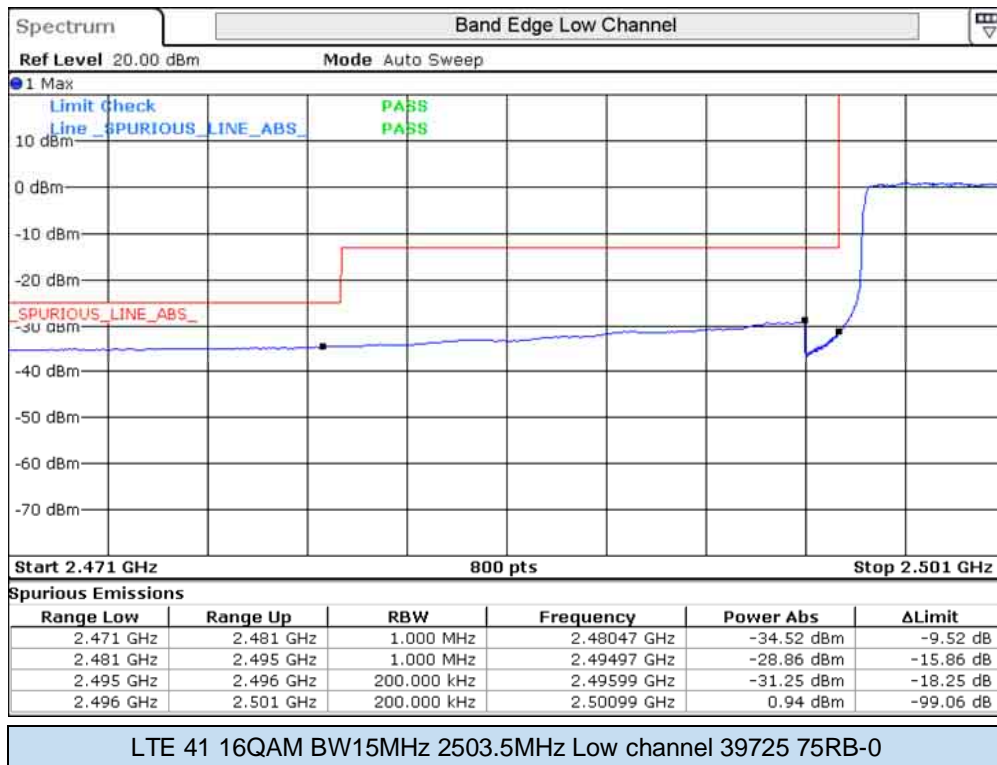
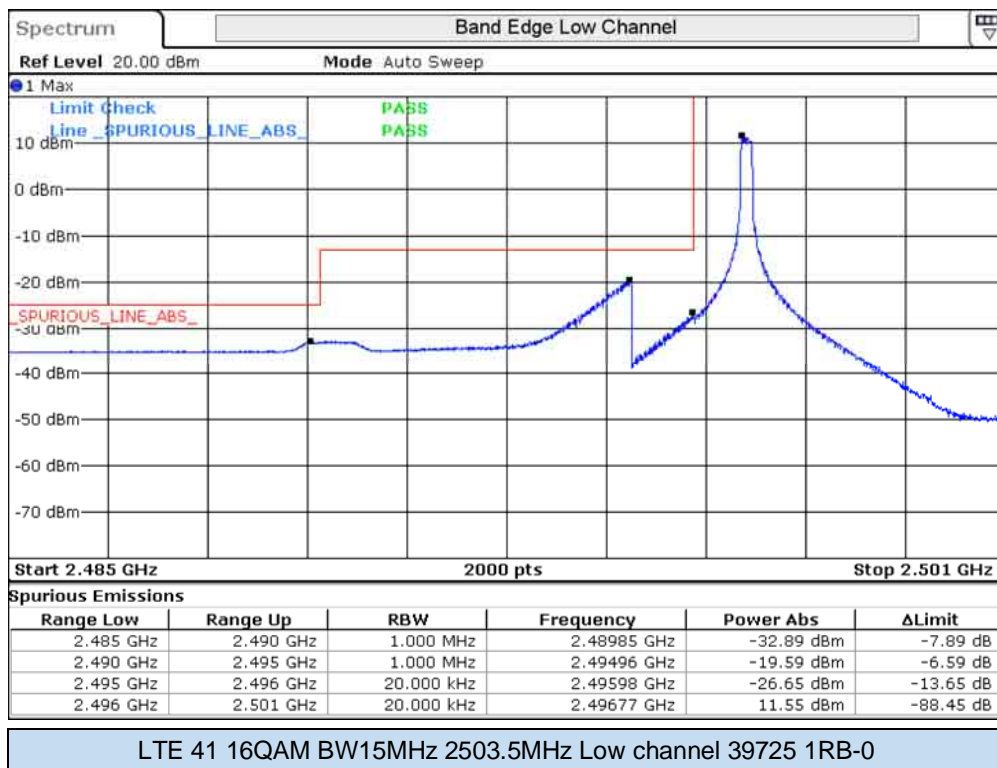


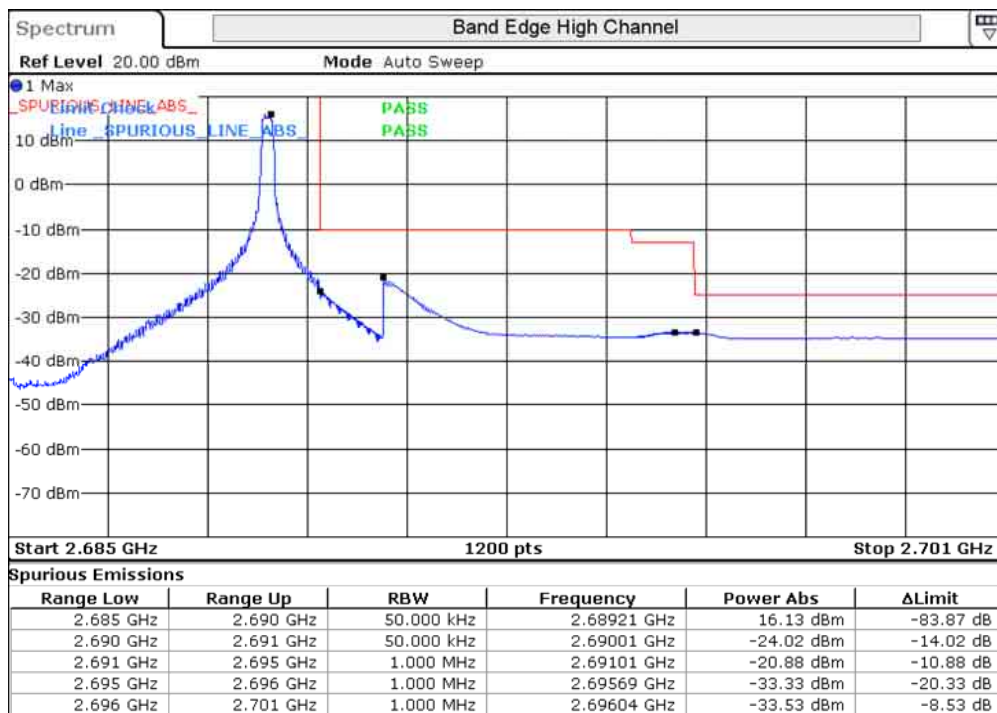


LTE 41 QPSK BW15MHz 2682.5MHz High channel 41515 1RB-74

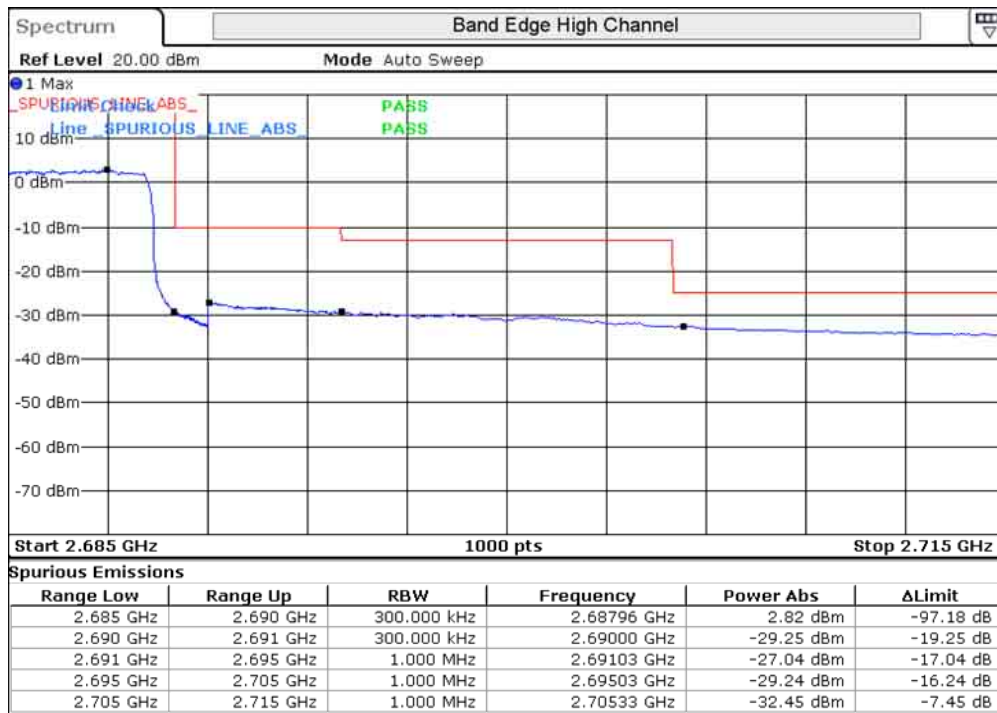


LTE 41 QPSK BW15MHz 2682.5MHz High channel 41515 75RB-0





LTE 41 16QAM BW15MHz 2682.5MHz High channel 41515 1RB-74



LTE 41 16QAM BW15MHz 2682.5MHz High channel 41515 75RB-0

