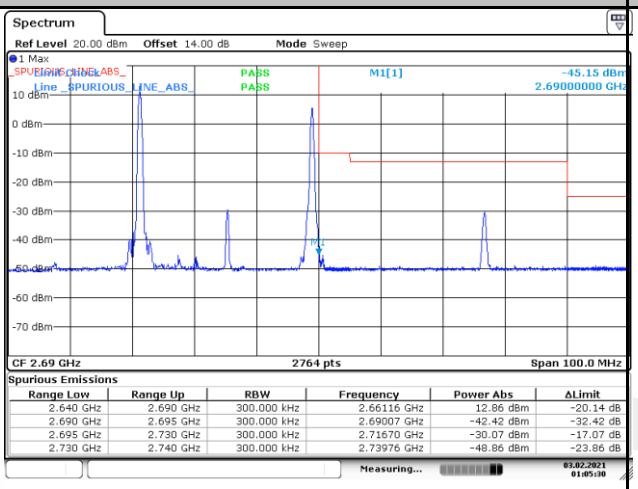
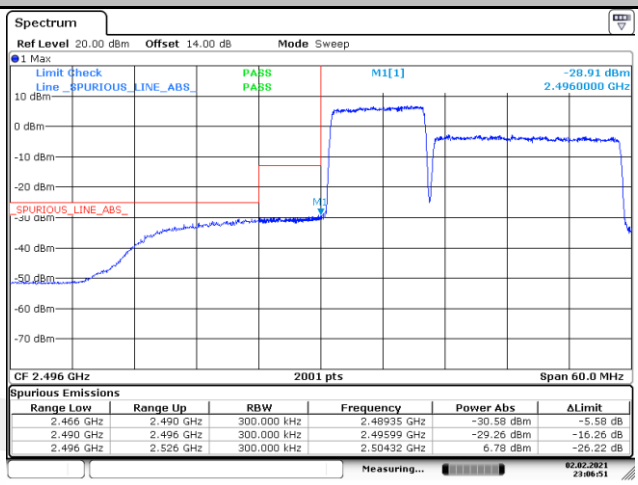
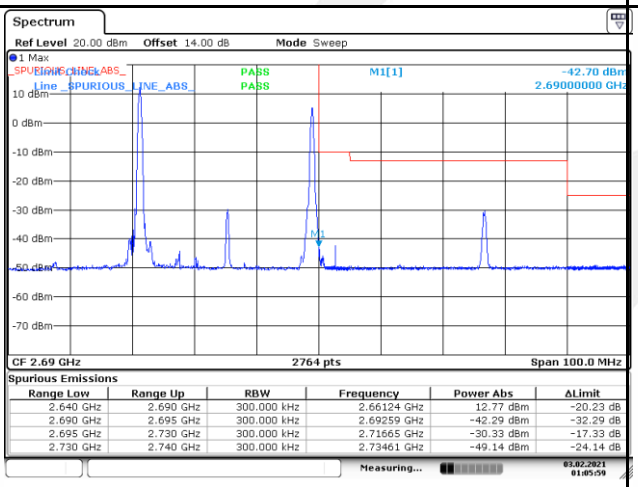
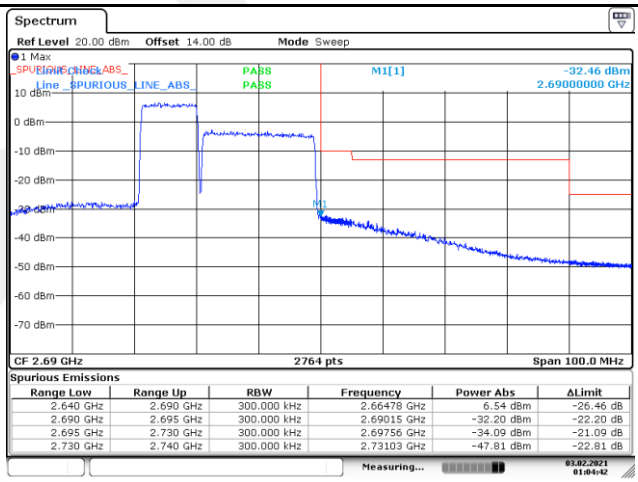
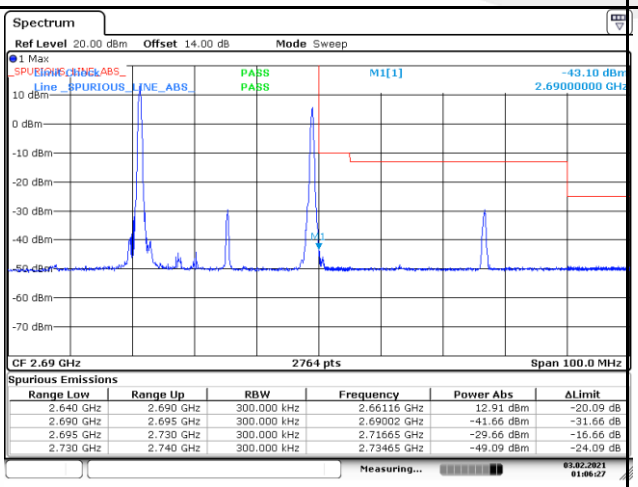
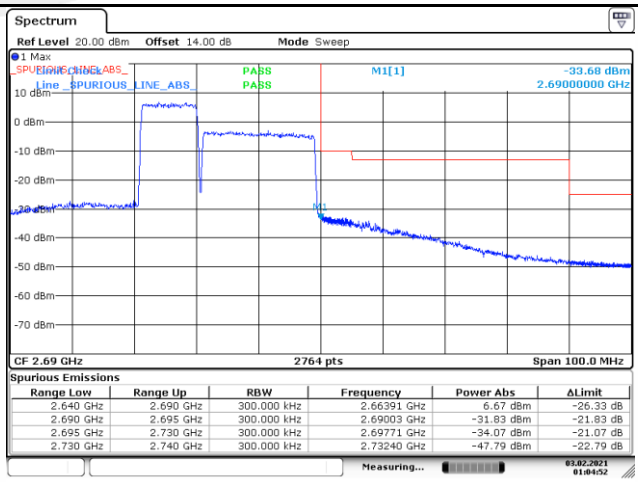
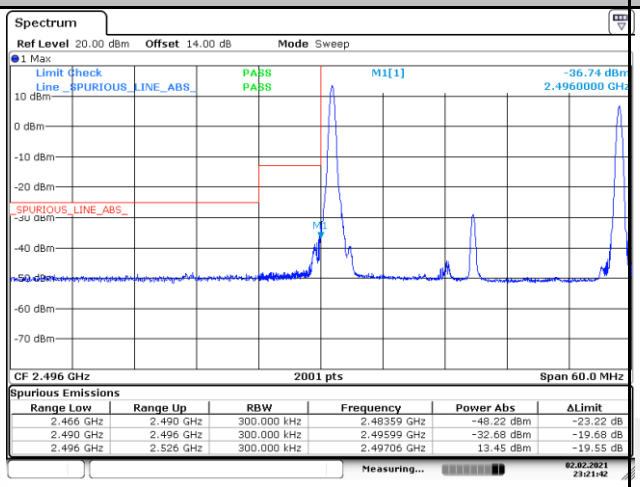
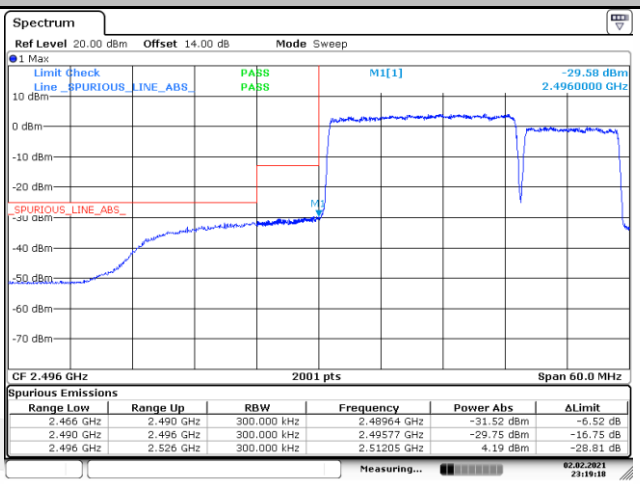
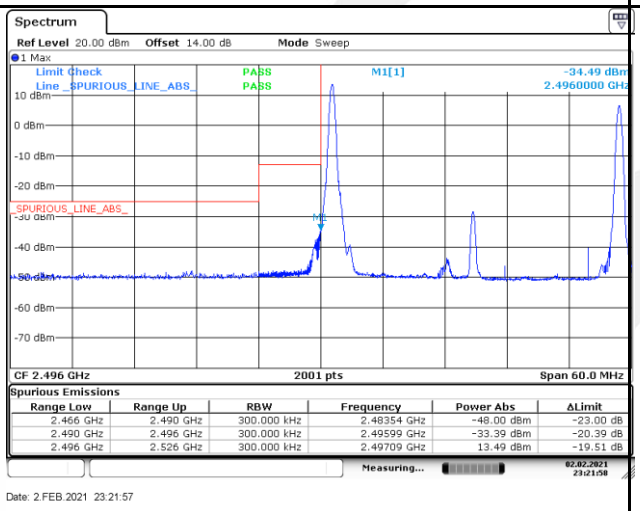
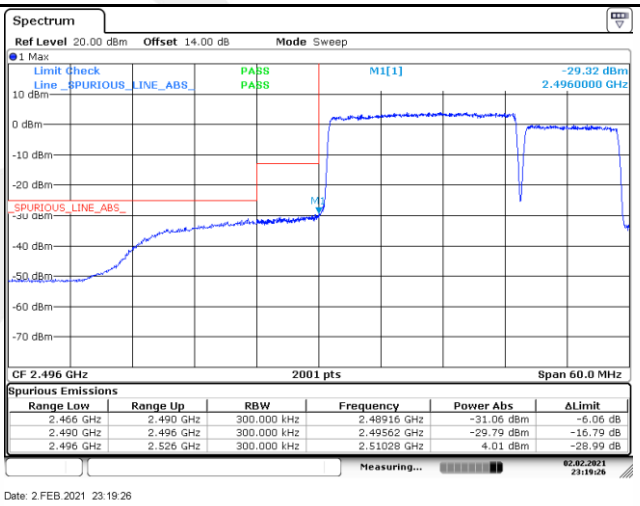
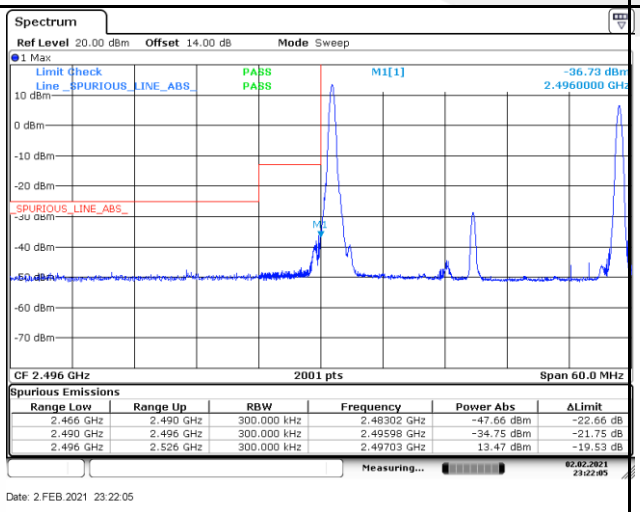
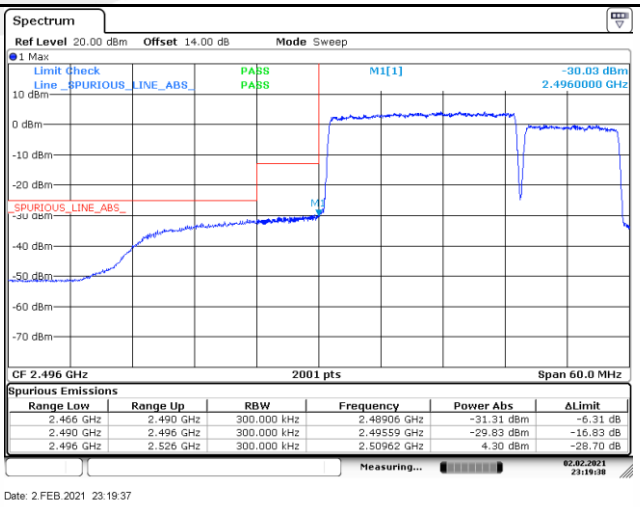
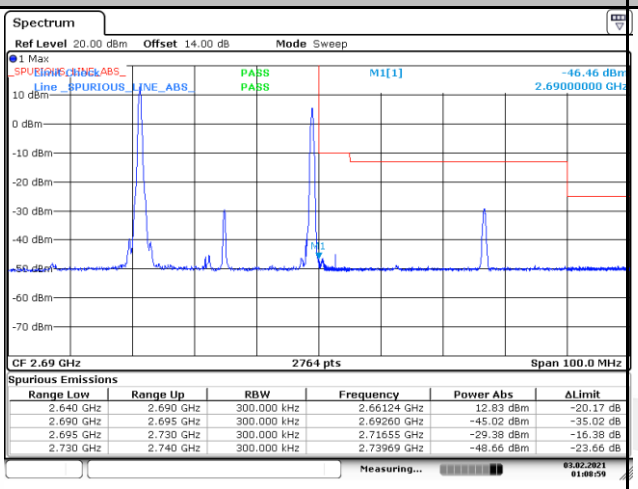
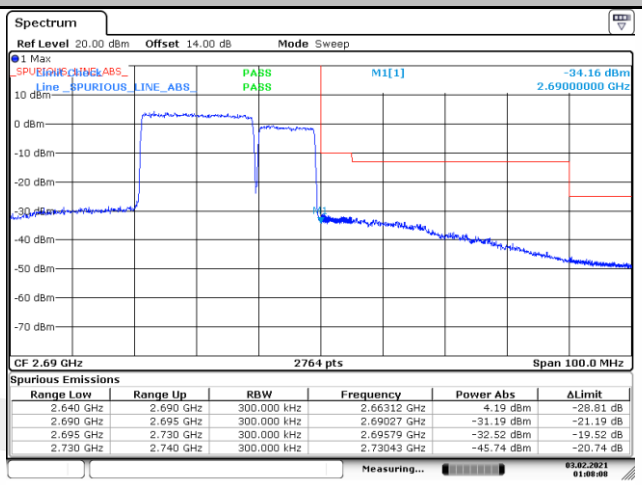
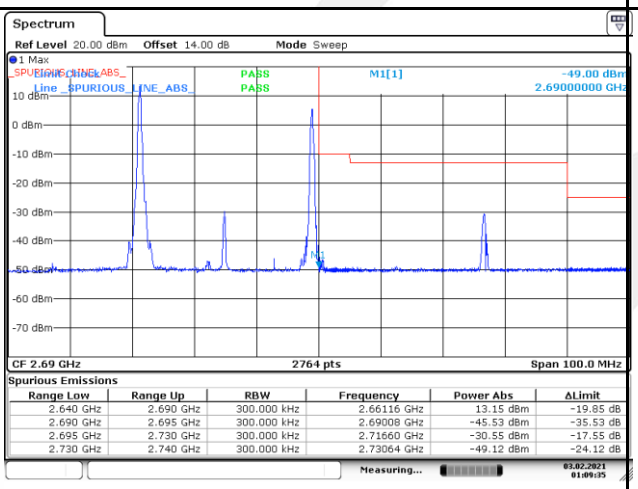
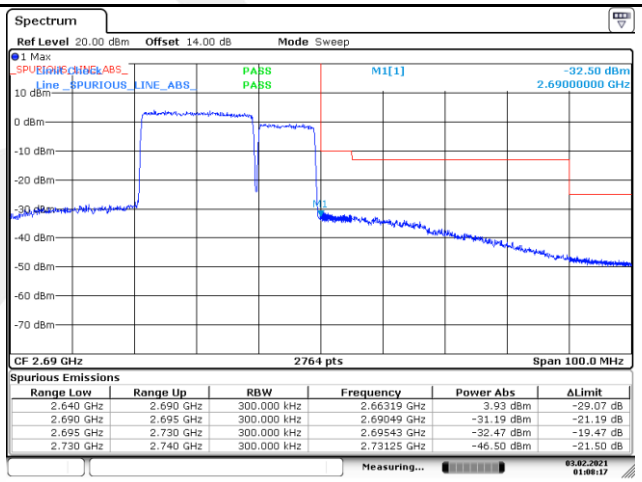
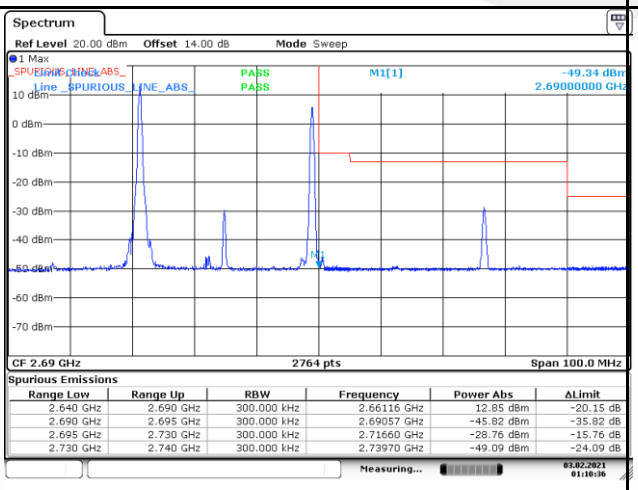
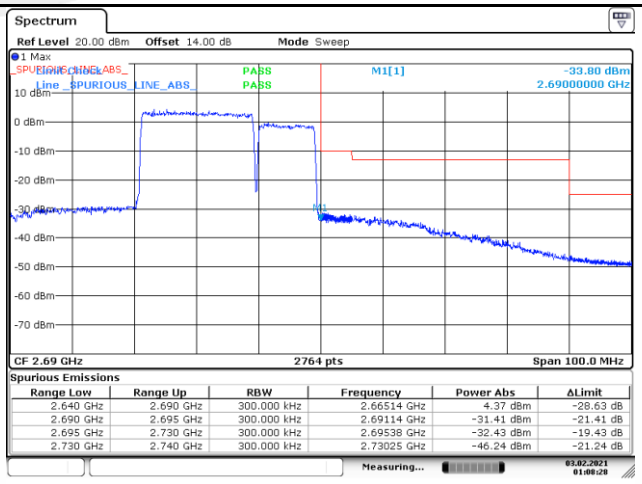
LTE Band 41_CA: BAND EDGE EMISSION BW: 10+20MHz-High Channel

	RB1#0&RB1#99	Full RB
QPSK		
16QAM		
64QAM		

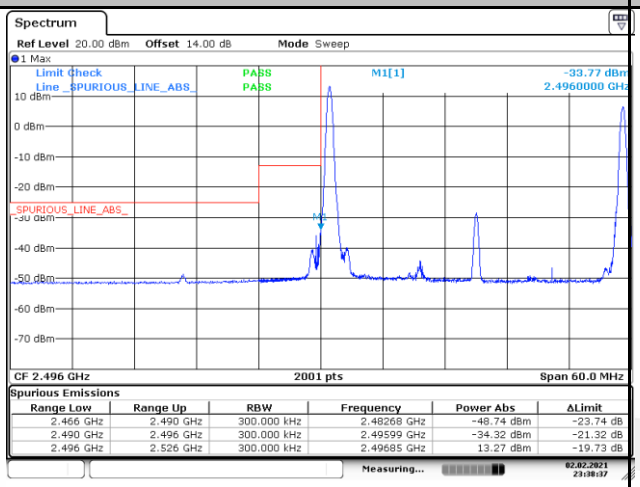
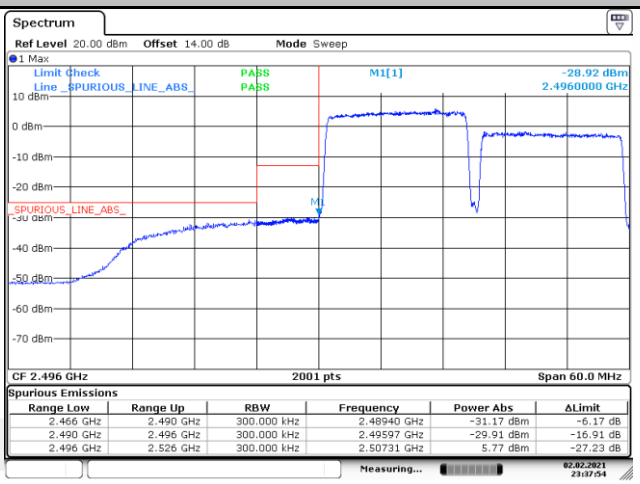
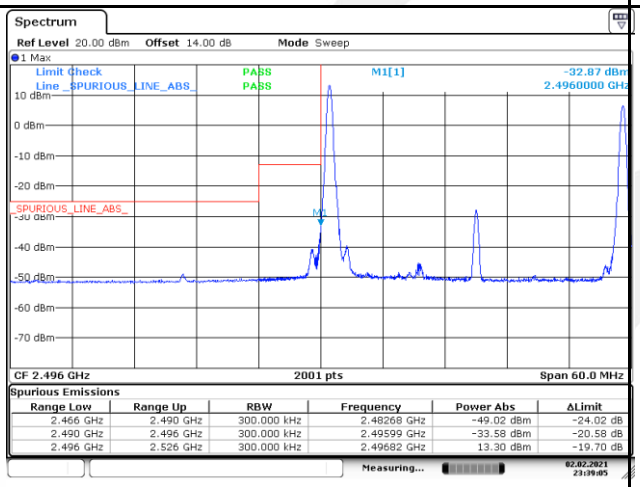
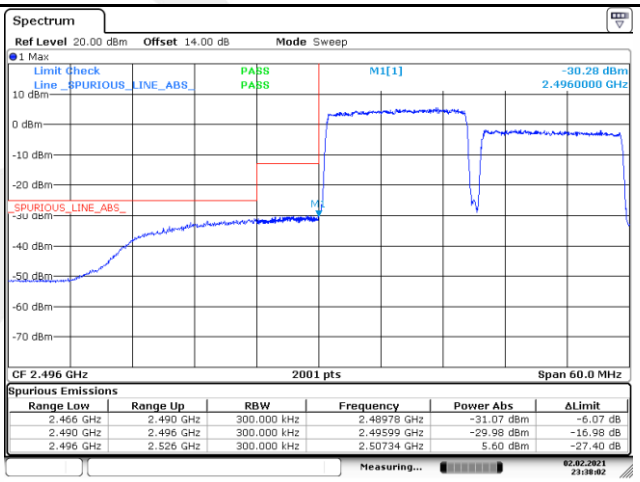
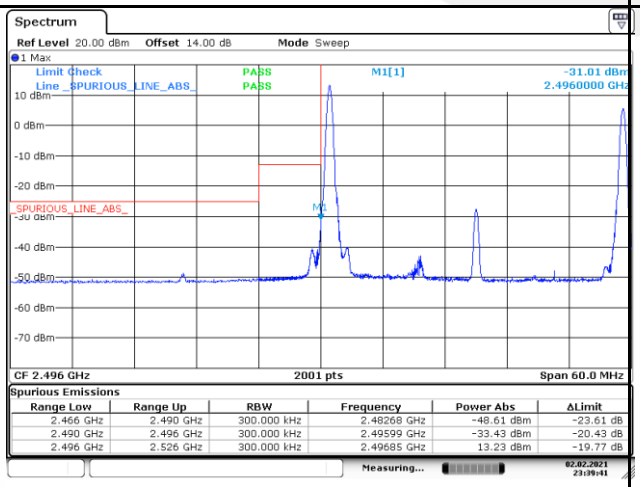
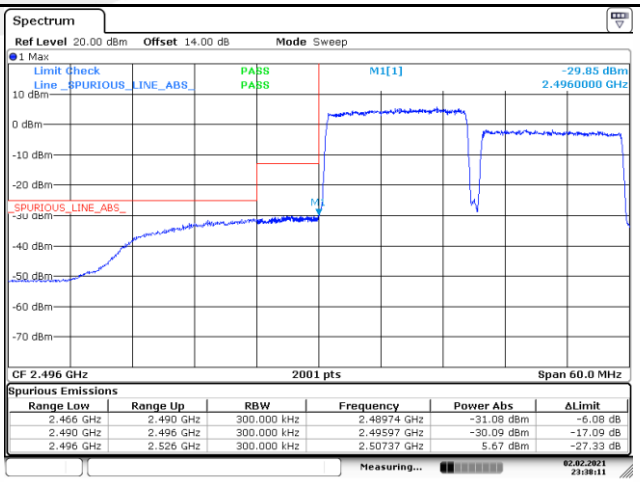
LTE Band 41_CA: BAND EDGE EMISSION BW: 20+10MHz-Low Channel

	RB1#0&RB1#49	Full RB
QPSK		
16QAM		
64QAM		

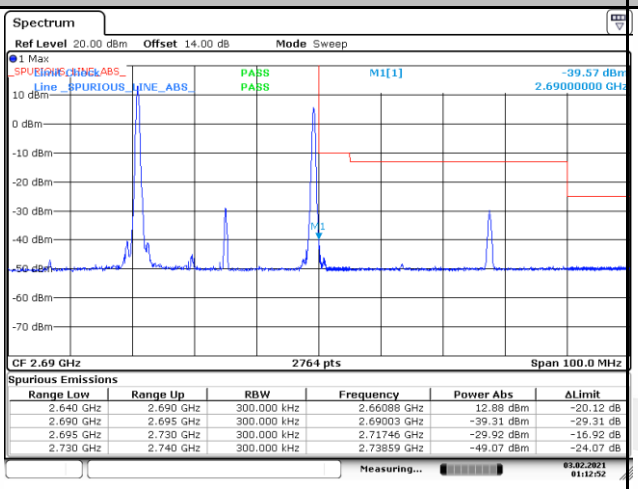
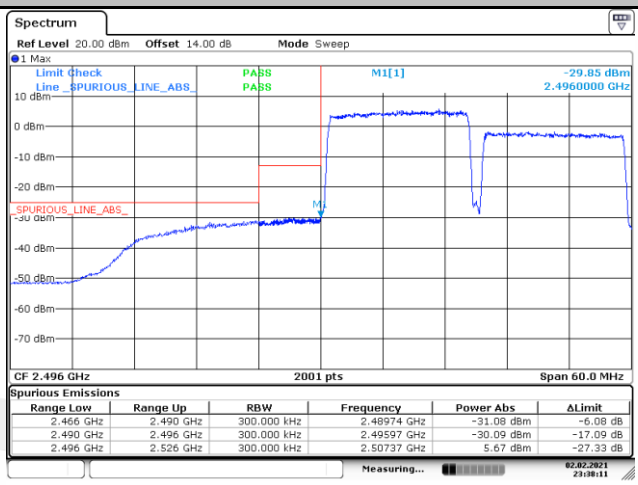
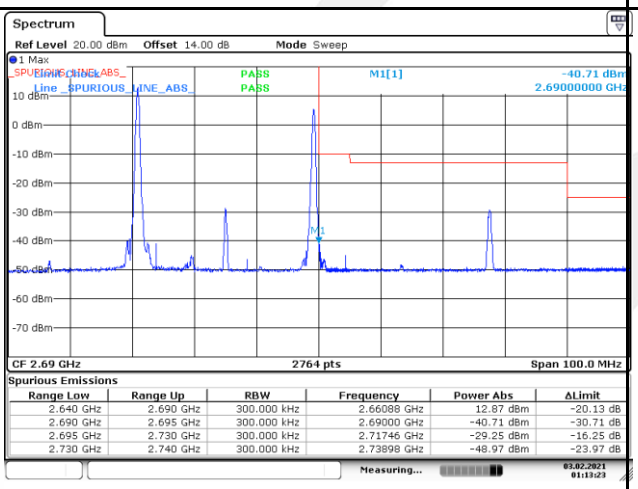
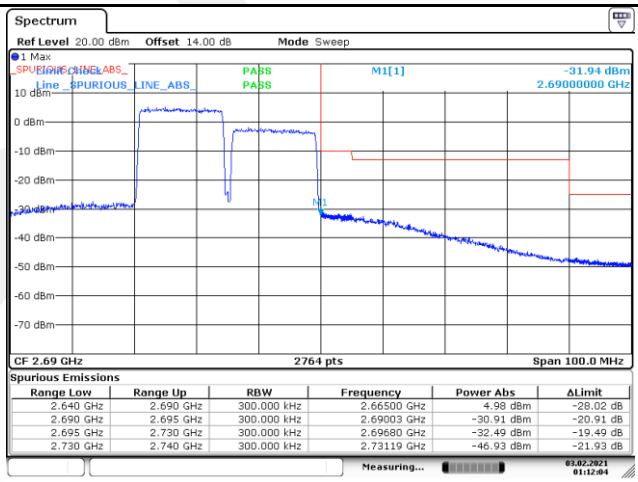
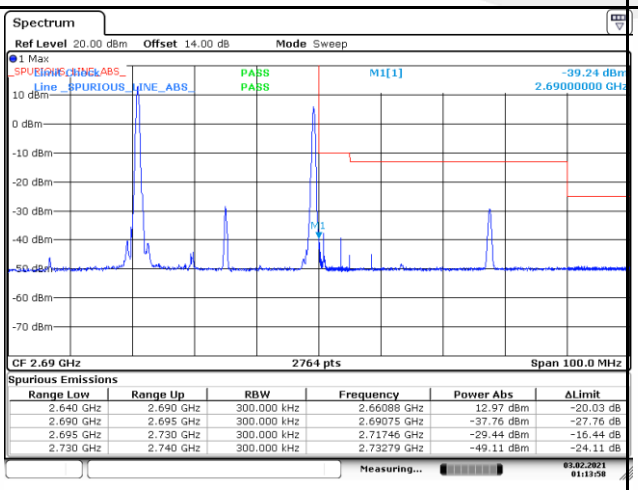
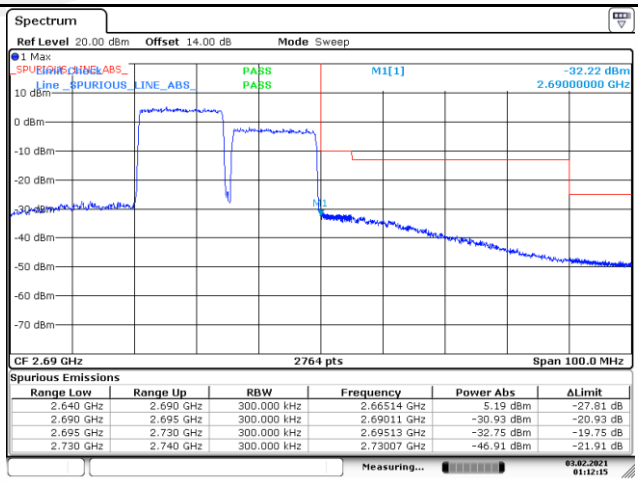
LTE Band 41_CA: BAND EDGE EMISSION BW: 20+10MHz-High Channel

	RB1#0&RB1#49	Full RB
QPSK		
16QAM		
64QAM		

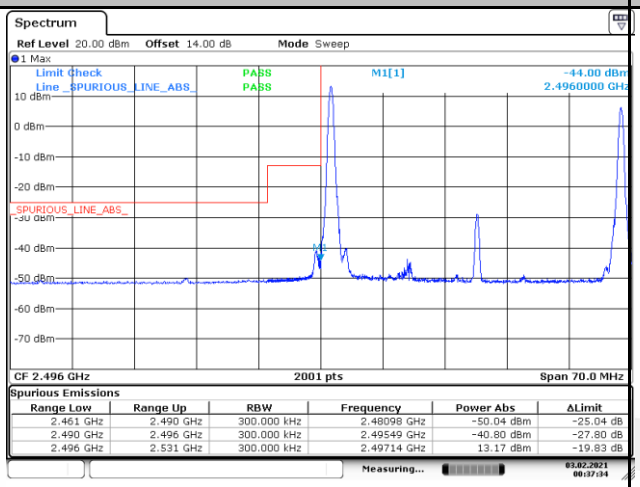
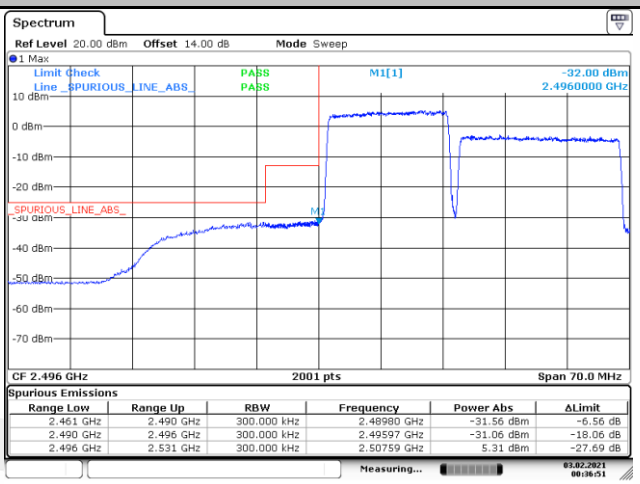
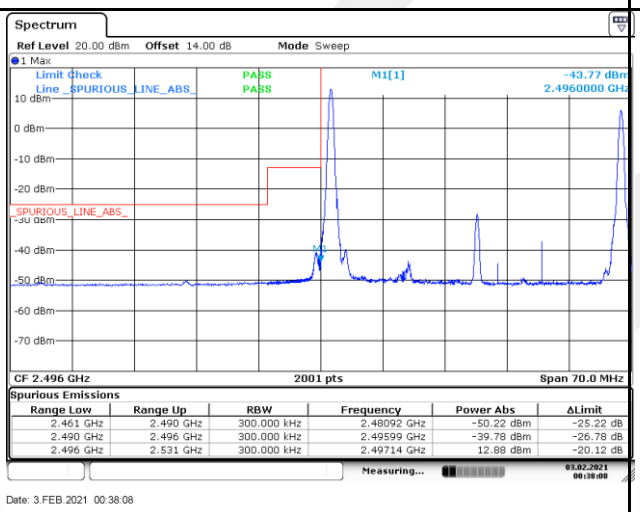
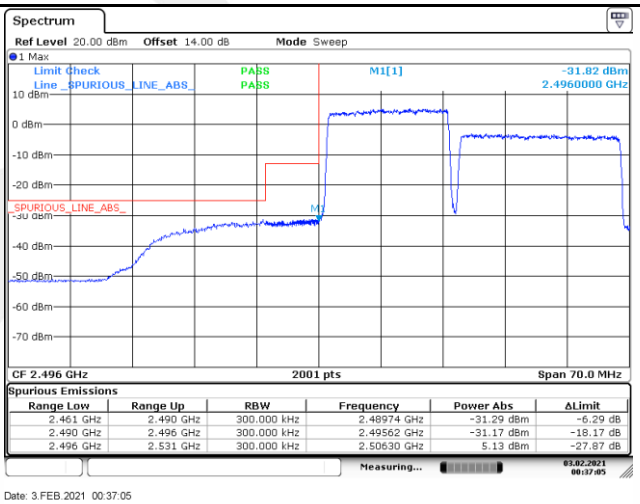
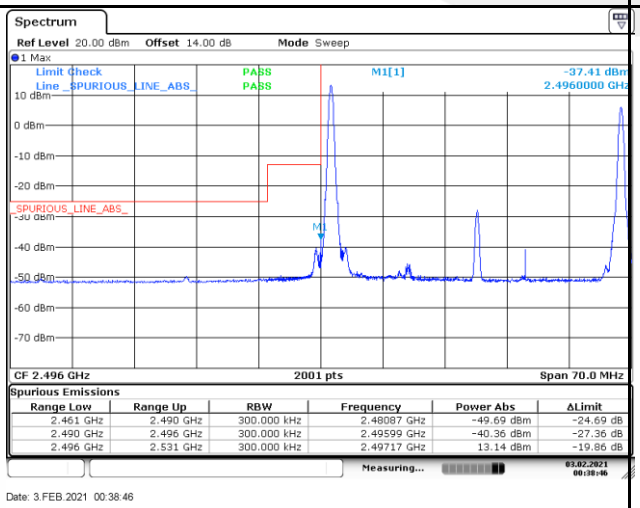
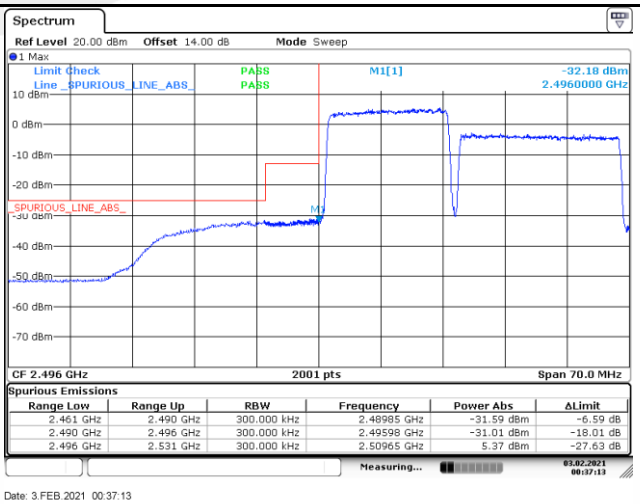
LTE Band 41_CA: BAND EDGE EMISSION BW: 15+15MHz-Low Channel

	RB1#0&RB1#74	Full RB
QPSK		
16QAM		
64QAM		

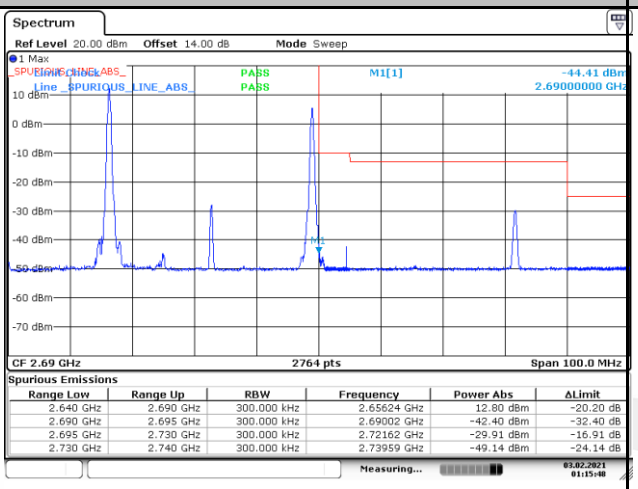
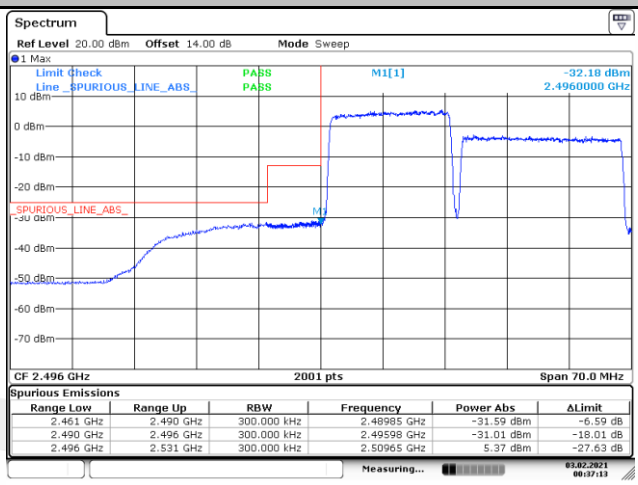
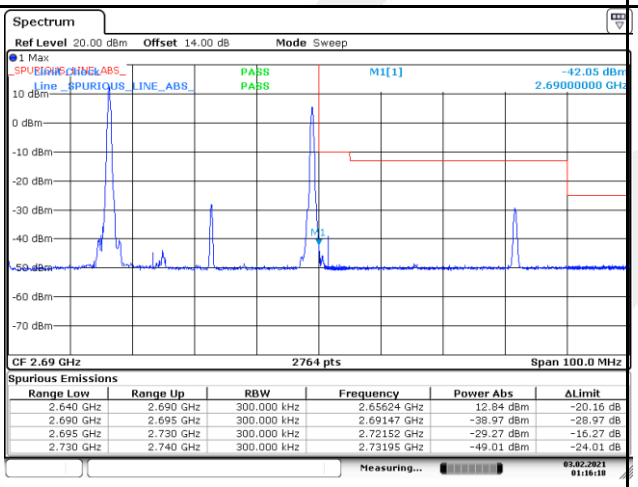
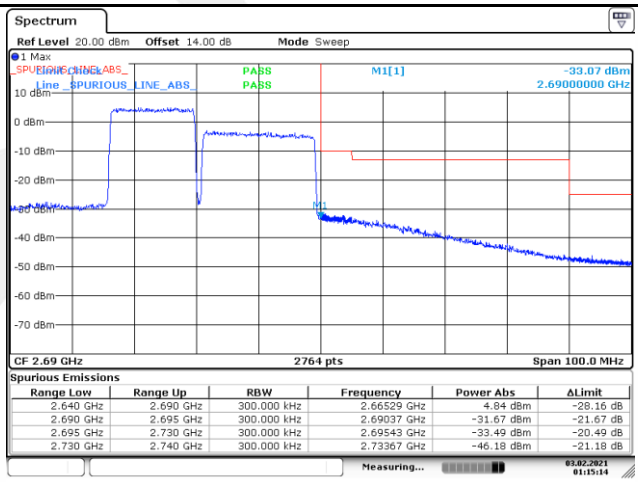
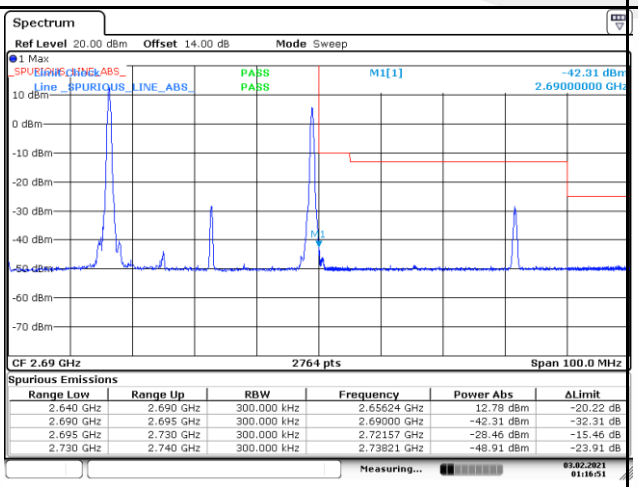
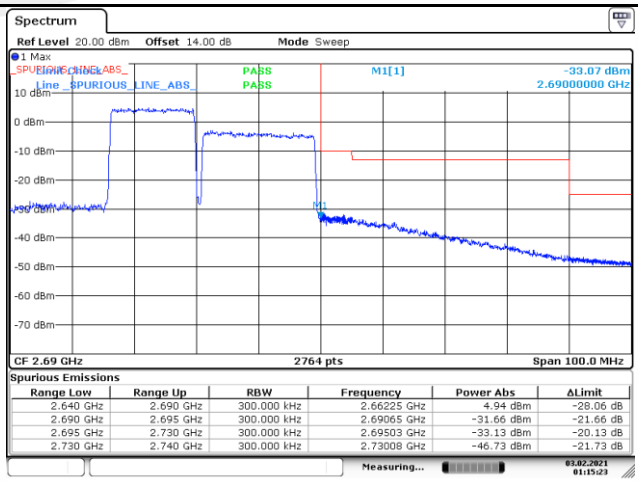
LTE Band 41_CA: BAND EDGE EMISSION BW: 15+15MHz-High Channel

	RB1#0&RB1#74	Full RB
QPSK	 Date: 3.FEB.2021 01:12:52	 Date: 2.FEB.2021 23:38:11
16QAM	 Date: 3.FEB.2021 01:13:23	 Date: 3.FEB.2021 01:12:04
64QAM	 Date: 3.FEB.2021 01:13:57	 Date: 3.FEB.2021 01:12:15

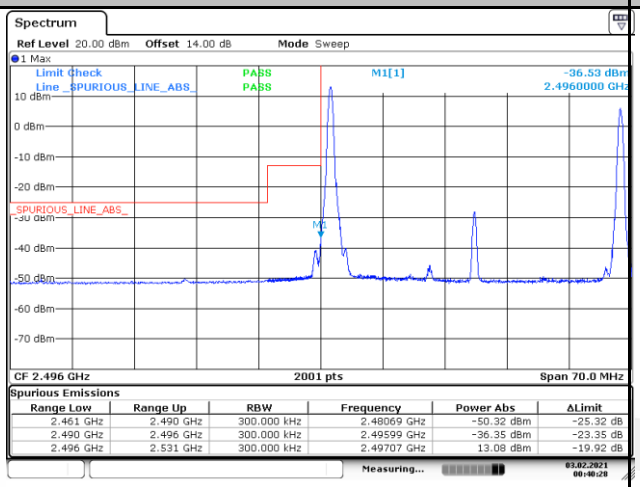
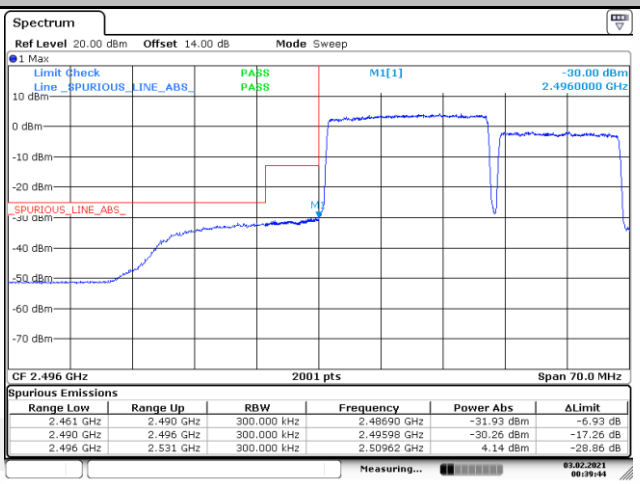
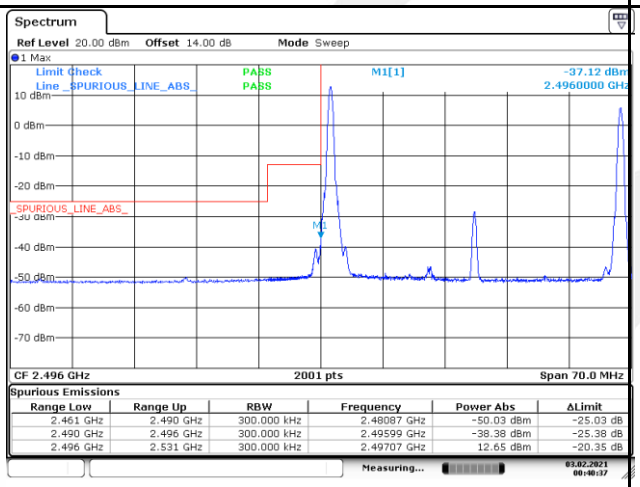
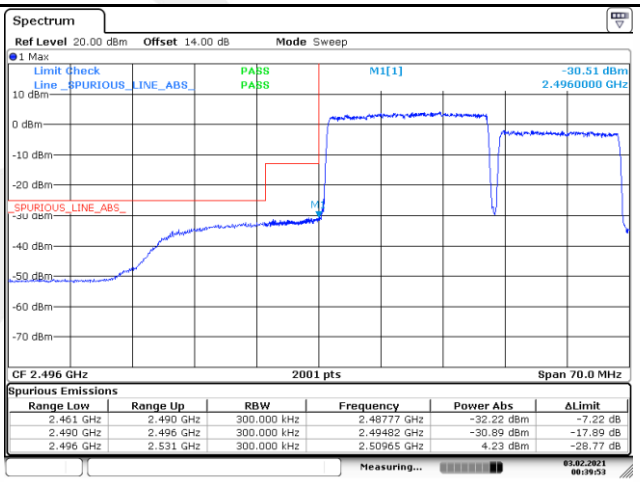
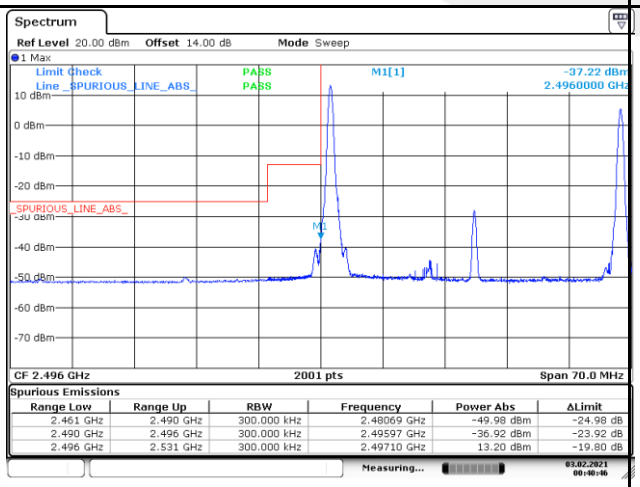
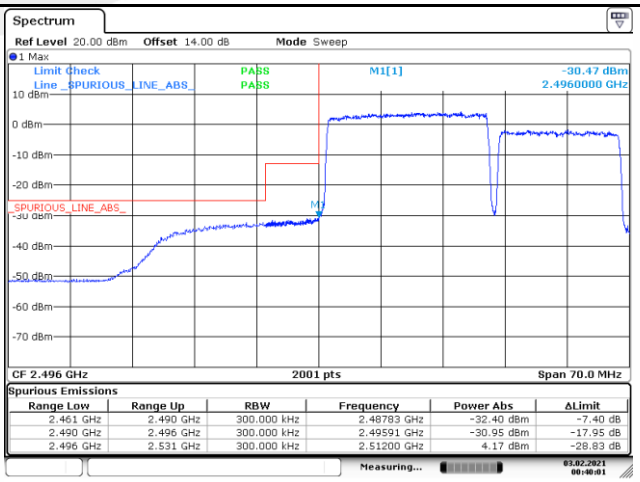
LTE Band 41_CA: BAND EDGE EMISSION BW: 15+20MHz-Low Channel

	RB1#0&RB1#99	Full RB
QPSK		
16QAM		
64QAM		

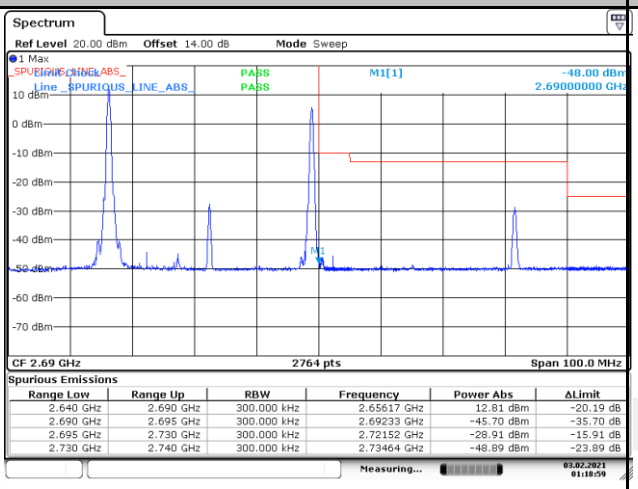
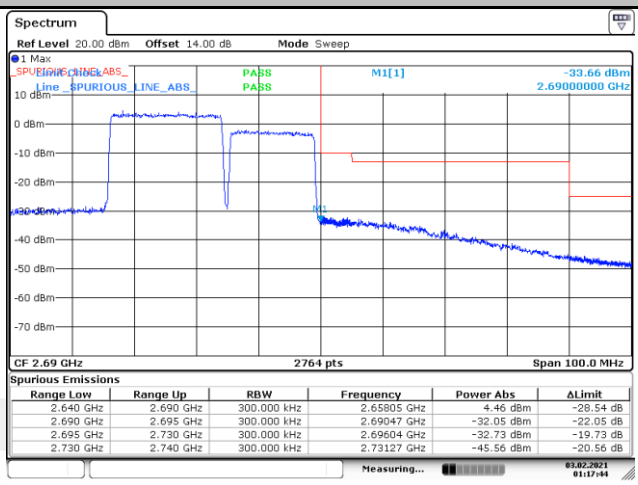
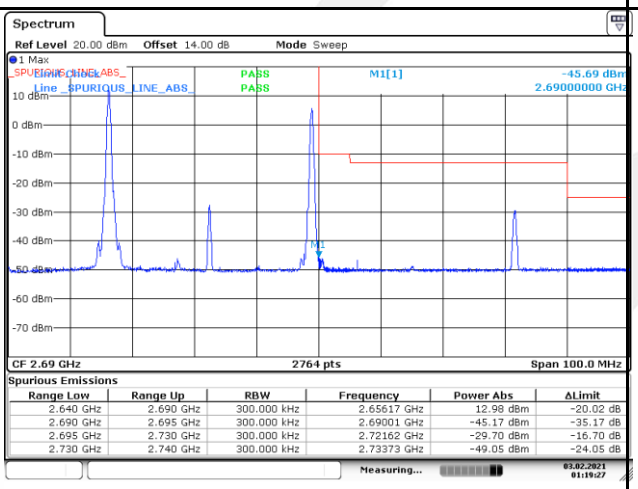
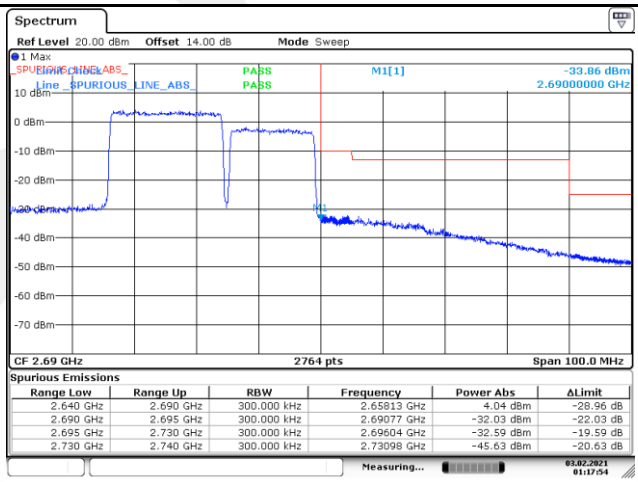
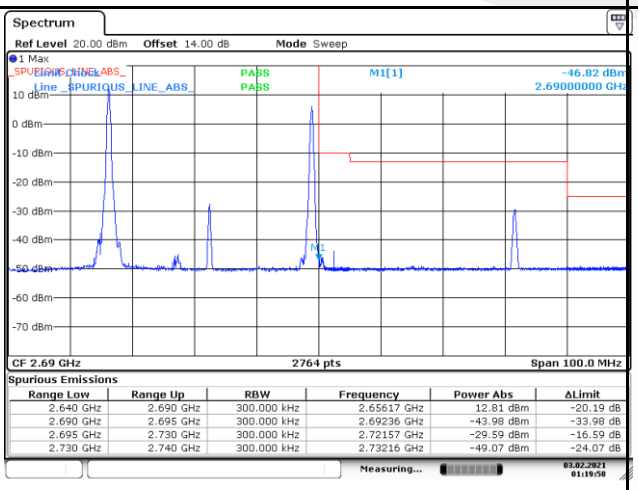
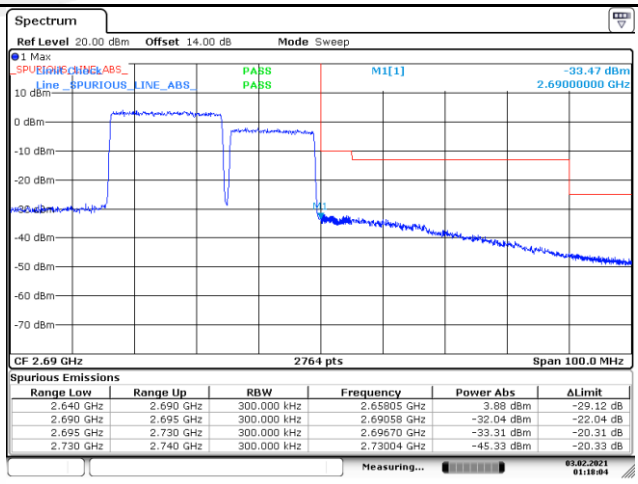
LTE Band 41_CA: BAND EDGE EMISSION BW: 15+20MHz-High Channel

	RB1#0&RB1#99	Full RB
QPSK		
16QAM		
64QAM		

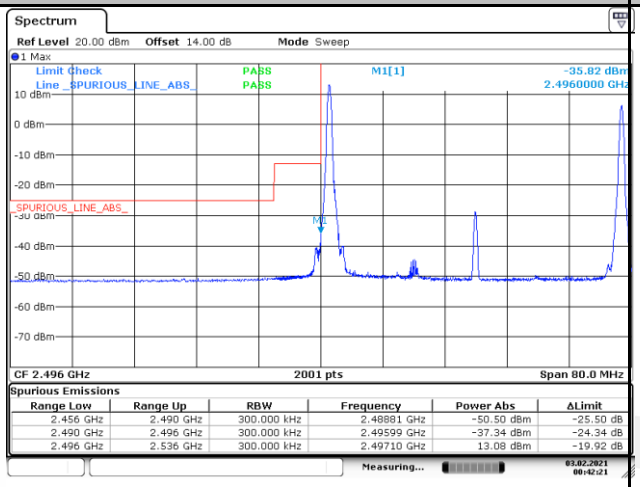
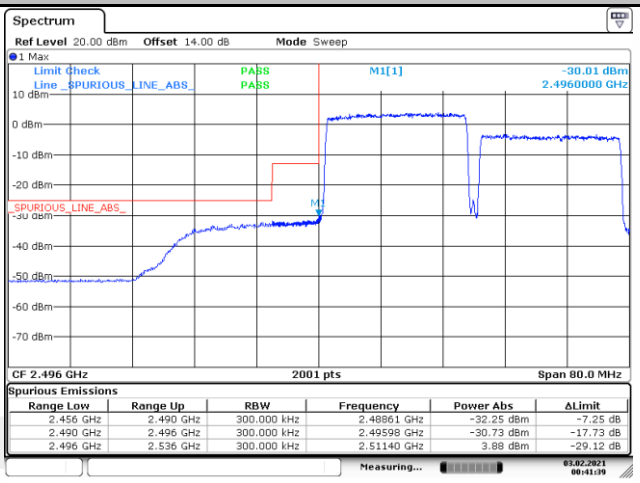
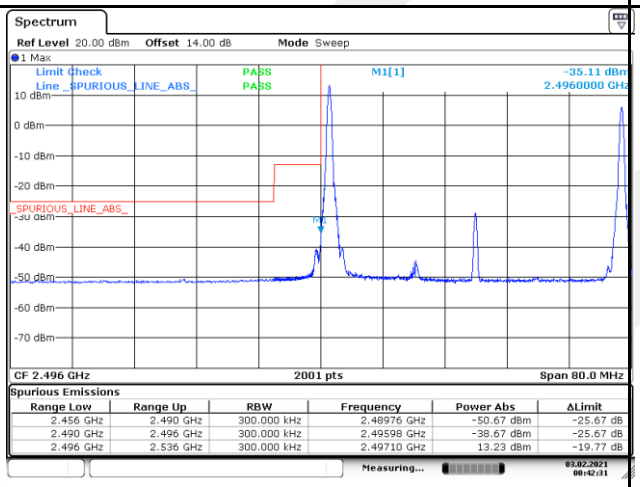
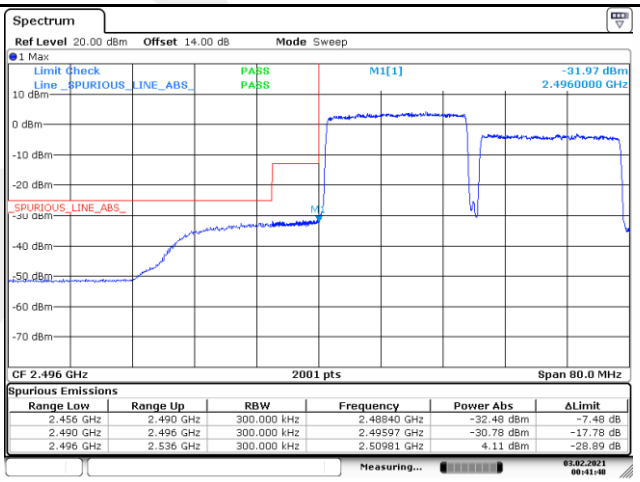
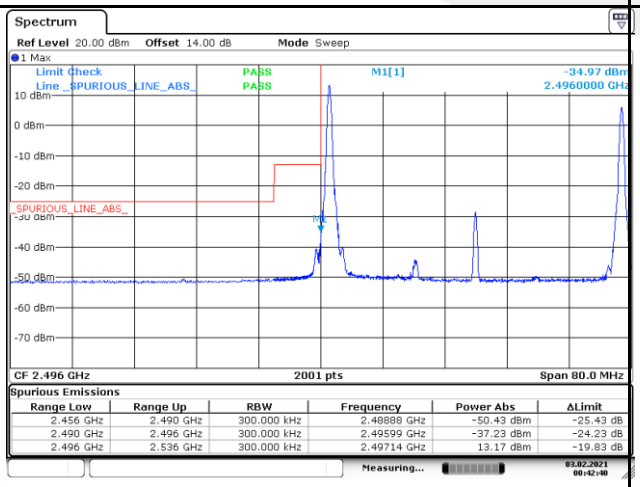
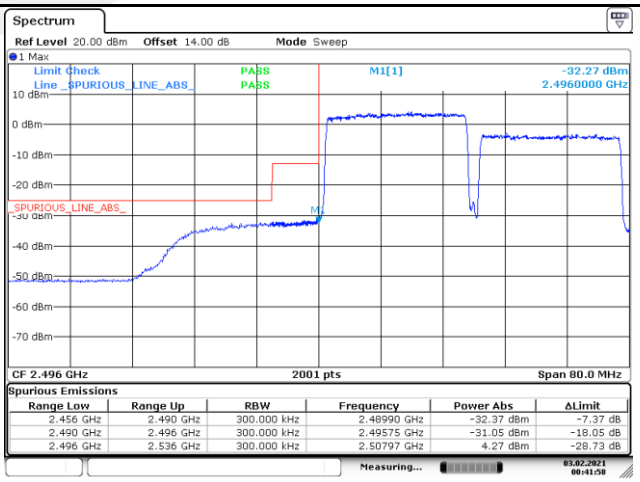
LTE Band 41_CA: BAND EDGE EMISSION BW: 20+15MHz-Low Channel

	RB1#0&RB1#74	Full RB
QPSK		
16QAM		
64QAM		

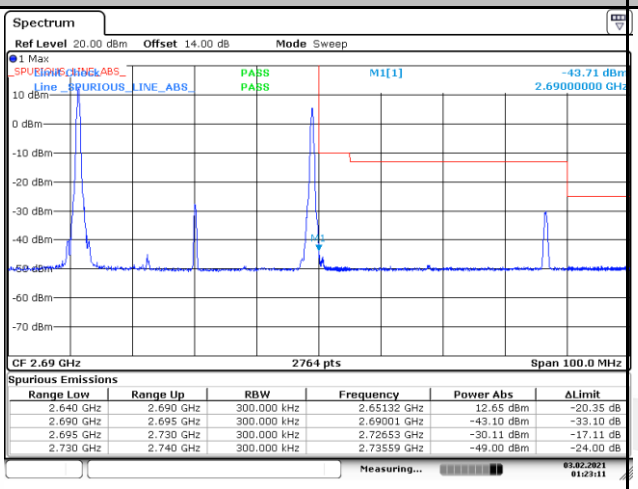
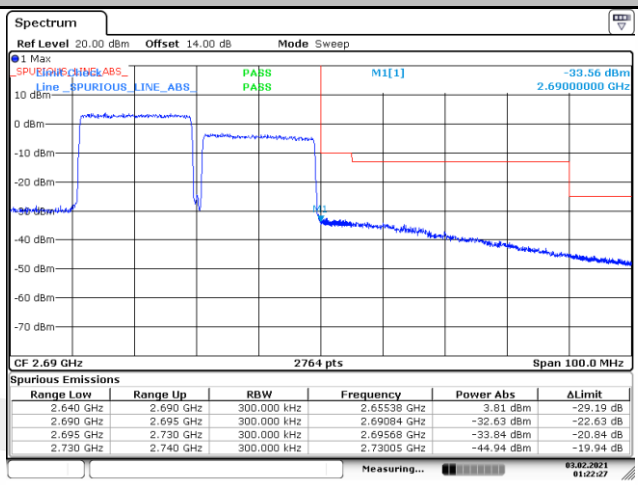
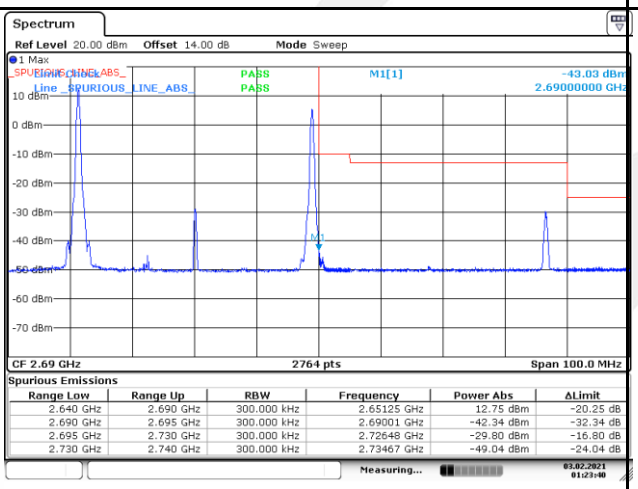
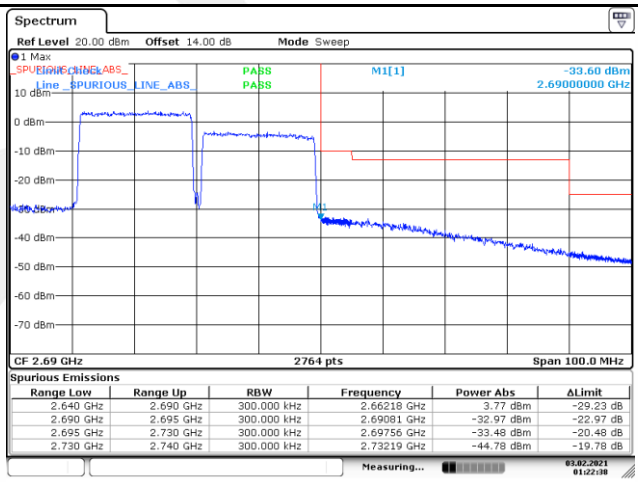
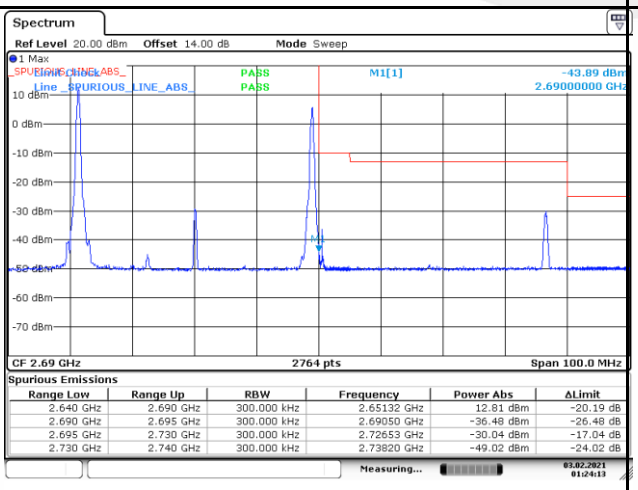
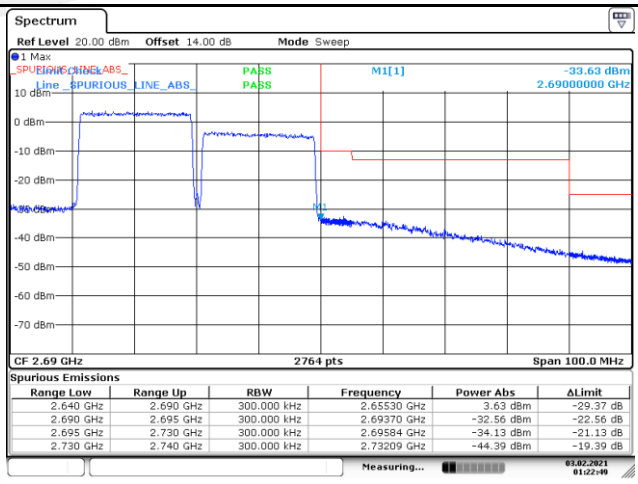
LTE Band 41_CA: BAND EDGE EMISSION BW: 20+15MHz-High Channel

	RB1#0&RB1#74	Full RB
QPSK		
16QAM		
64QAM		

LTE Band 41_CA: BAND EDGE EMISSION BW: 20+20MHz-Low Channel

	RB1#0&RB1#99	Full RB
QPSK		
16QAM		
64QAM		

LTE Band 41_CA: BAND EDGE EMISSION BW: 20+20MHz-High Channel

	RB1#0&RB1#99	Full RB
QPSK		
16QAM		
64QAM		

8.6 OUT OF BAND EMISSIONS AT ANTENNA TERMINALS

8.6.1 Conformance Limit

LTE BAND2	FCC Part 24.238
Out of band emissions. 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.	
LTE BAND4(66)	FCC Part 27.53(h)
Out of band emissions. 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.	
LTE BAND5(26)	FCC Part 22.917
Out of band emissions. 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.	
LTE BAND7 (41)	FCC Part 27.53(m)
For mobile digital stations, the attenuation 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 as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that 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. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees	
LTE BAND12	FCC Part 27.53(g)
Out of band emissions. 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.	
LTE BAND13	FCC Part 27.53(c)
Out of band emissions. 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.

8.6.2 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

8.6.3 Test Procedure

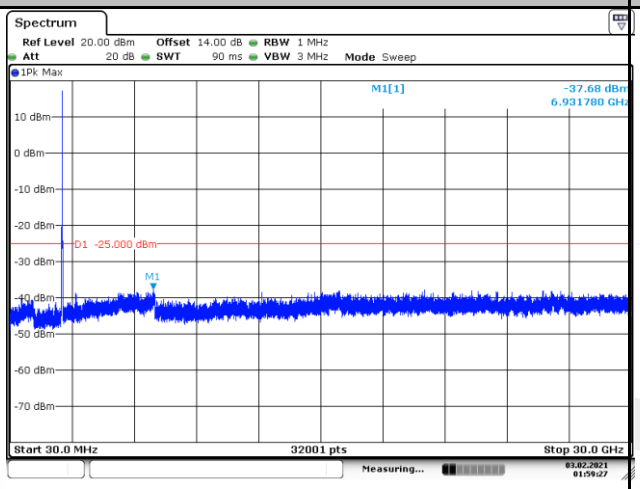
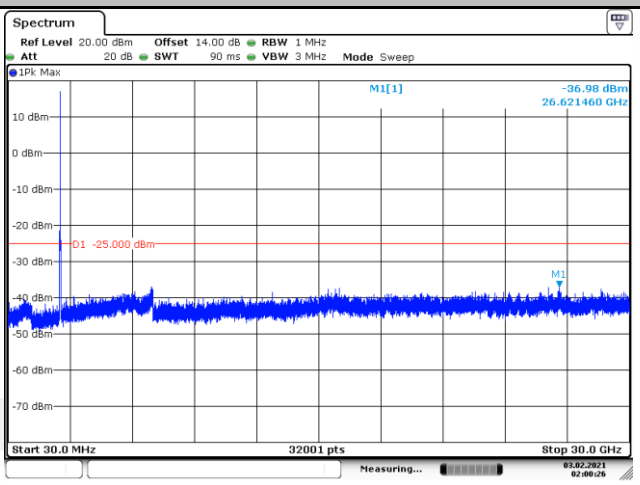
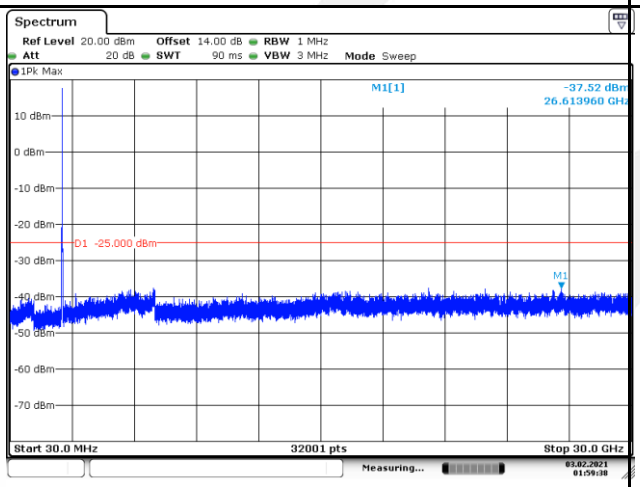
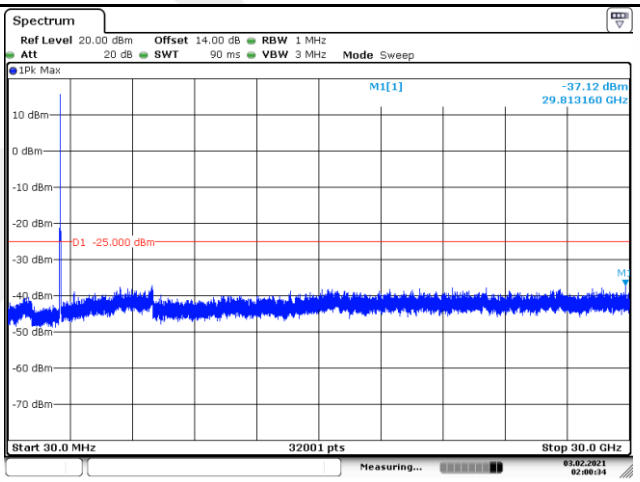
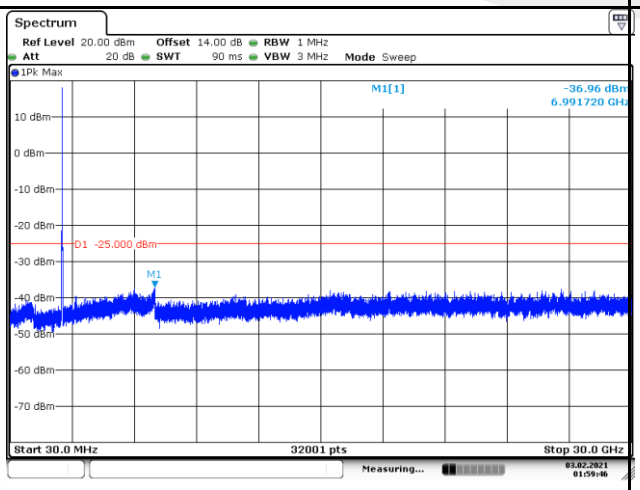
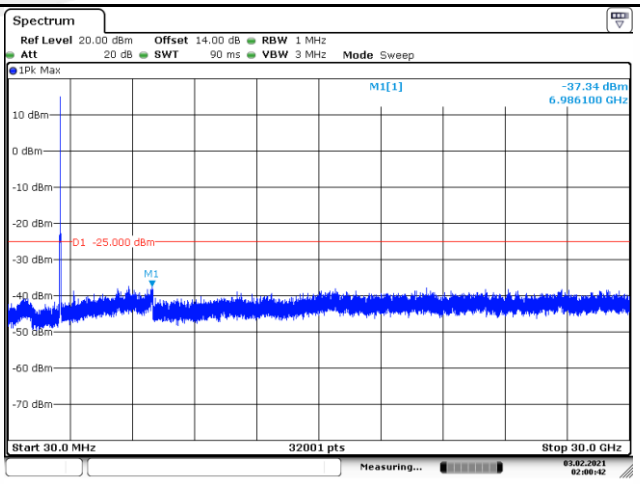
The transmitter output (antenna port) was connected to the spectrum analyzer
Connect the EUT to Universal Radio Communication Tester CMU200 or CMU500 via the antenna connector. A call is set up by the SS according to the generic call set up procedure on a channel with ARFCN in the Mid ARFCN range, power control level set to Max power. MS TXPWR_MAX_CCH is set to the maximum value supported by the Power Class of the Mobile under test,

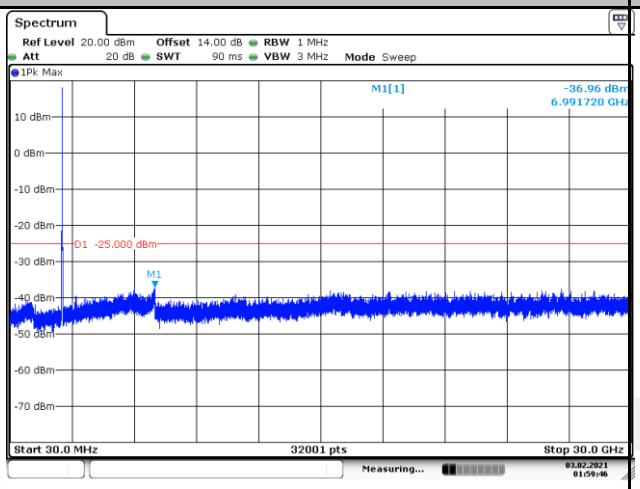
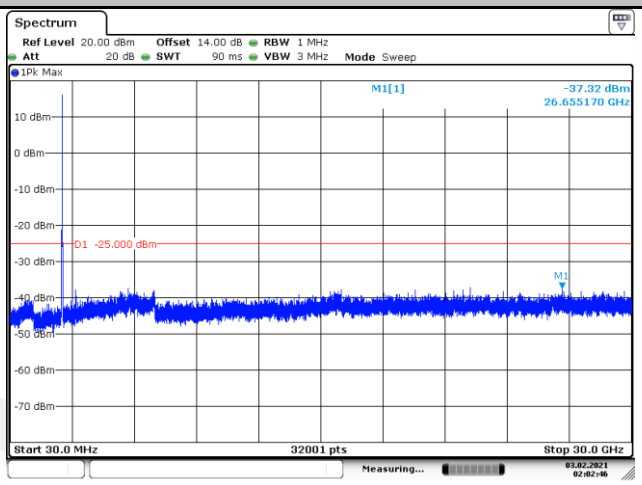
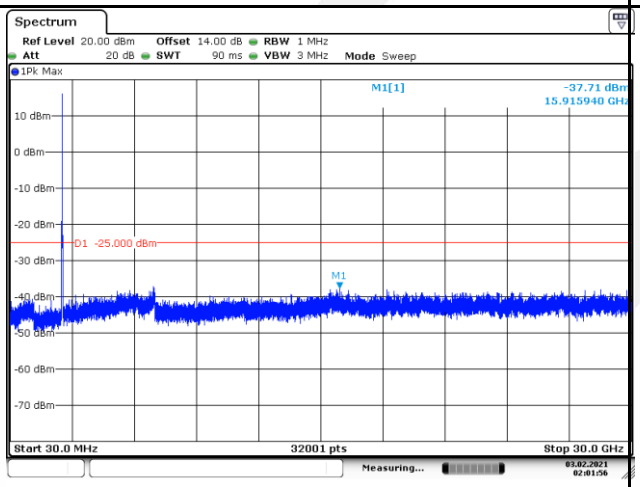
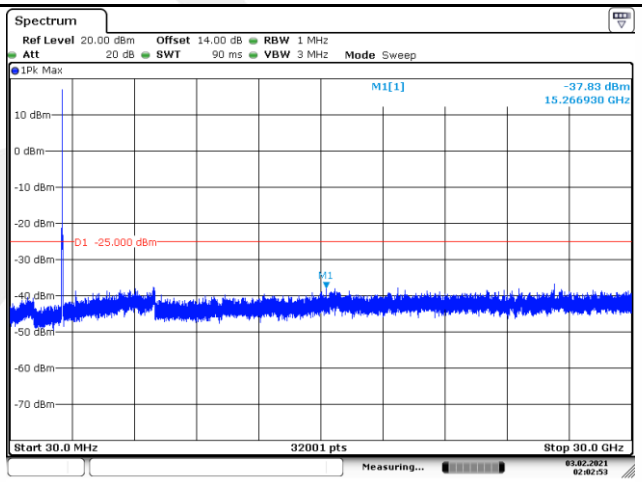
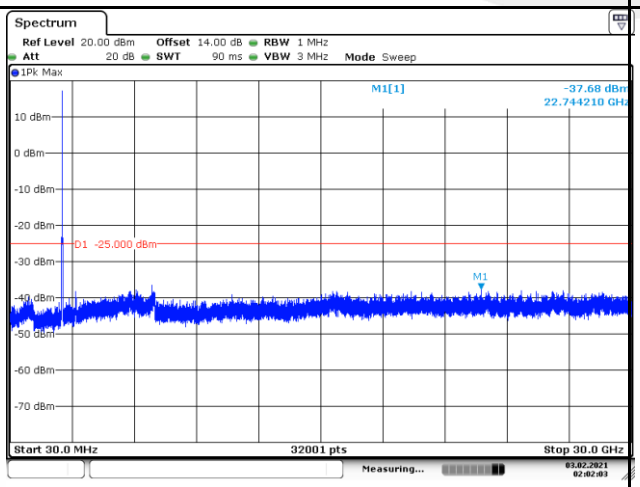
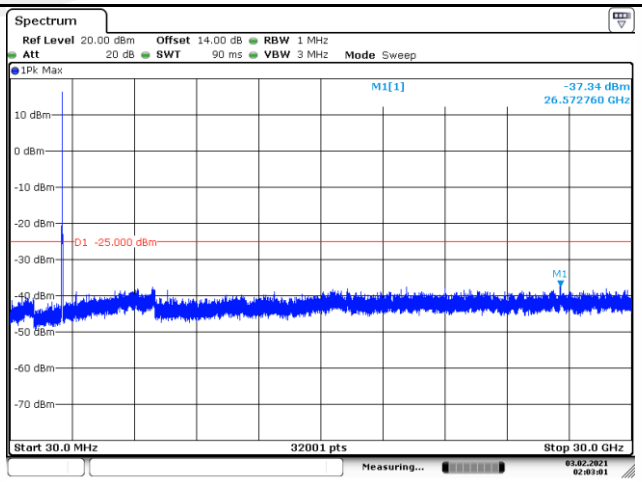
Spectrum Analyzer is set as below:
9kHz~150kHz, RBW = 1KHz, VBW ≥ 3×RBW,
150kHz~30MHz, RBW = 10KHz, VBW ≥ 3×RBW,
30MHz~1GHz, RBW = 100 kHz, VBW = 300 kHz. Above 1GHz, RBW = 1 MHz, VBW = 3 MHz.
Detector: Peak
Trace mode= max hold.

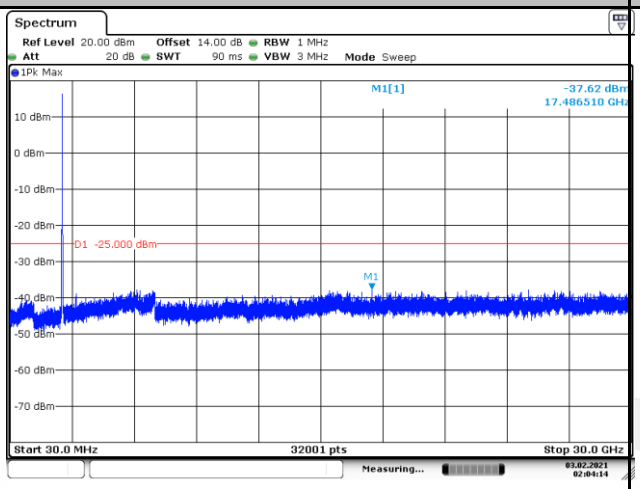
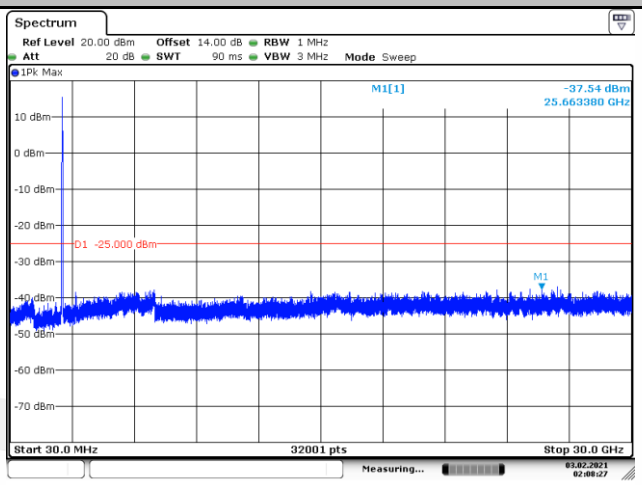
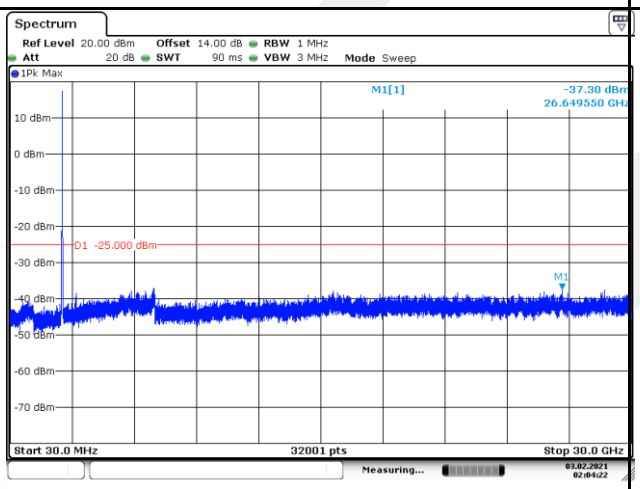
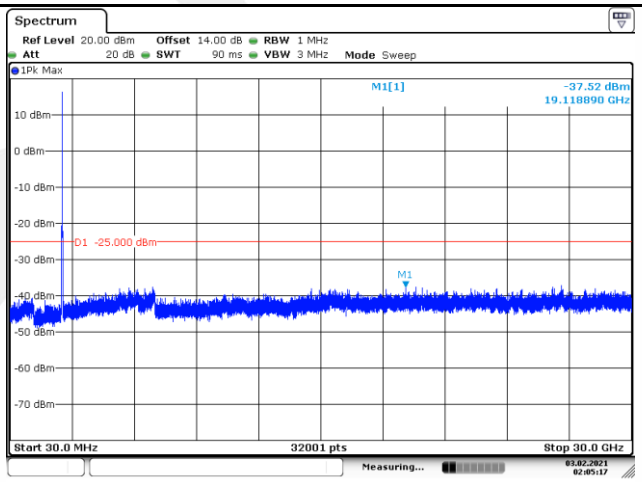
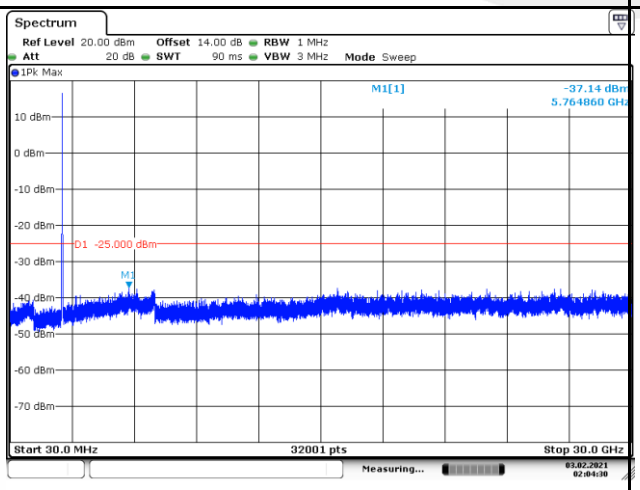
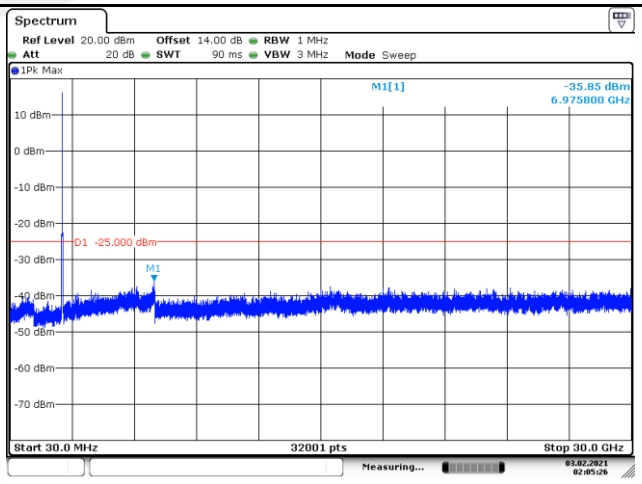
8.6.4 Test Results

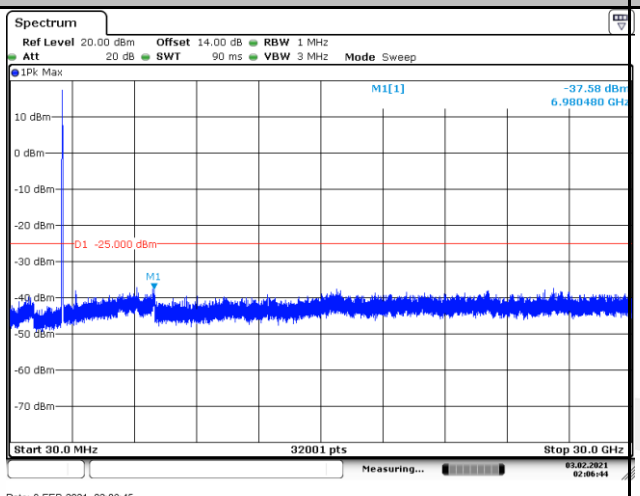
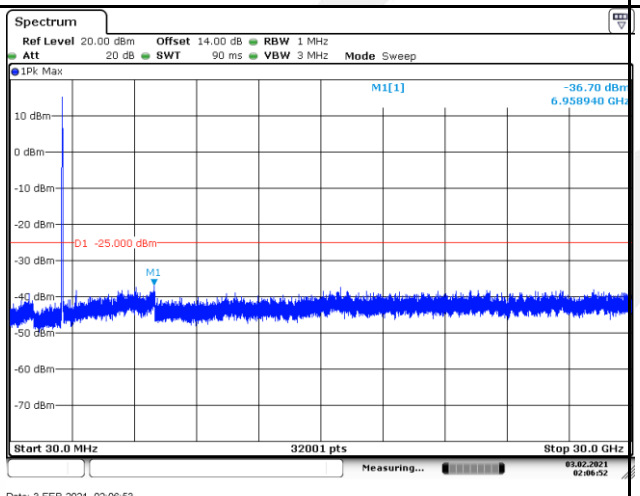
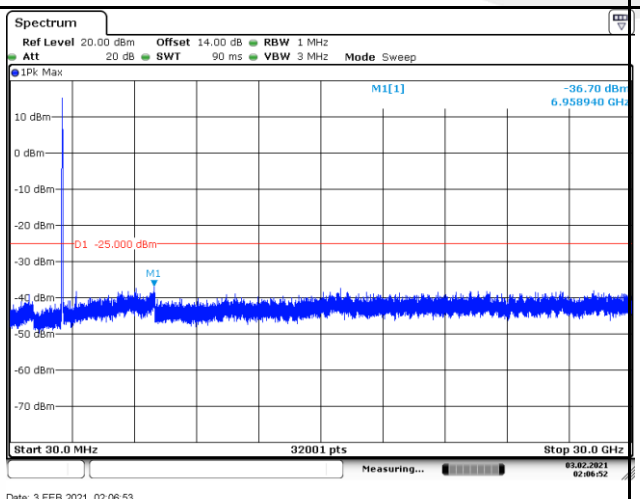
Pass

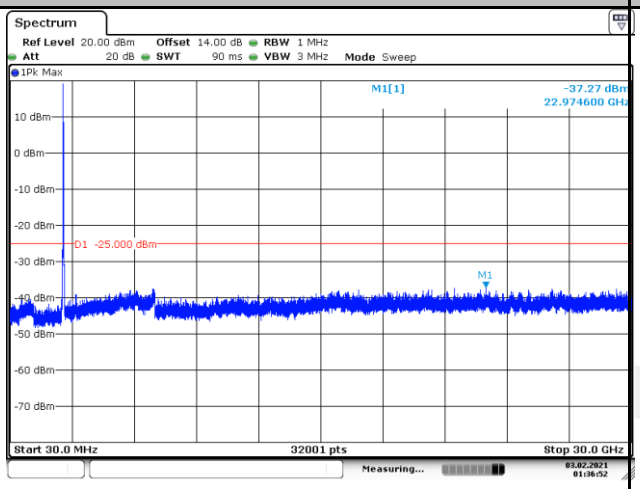
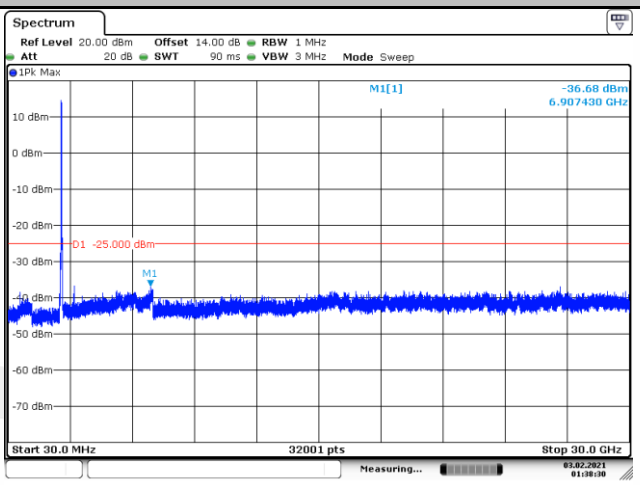
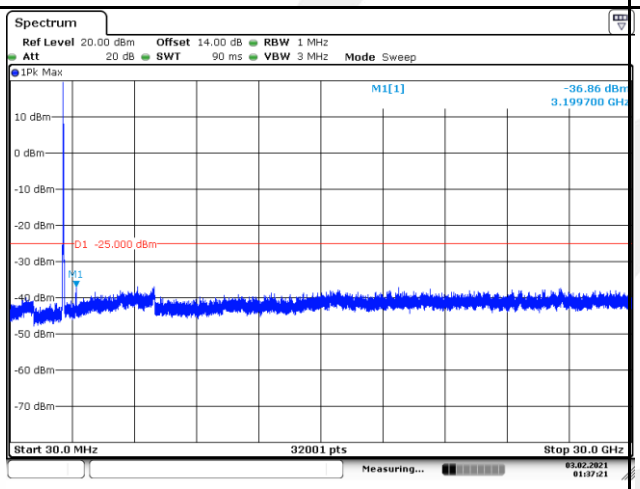
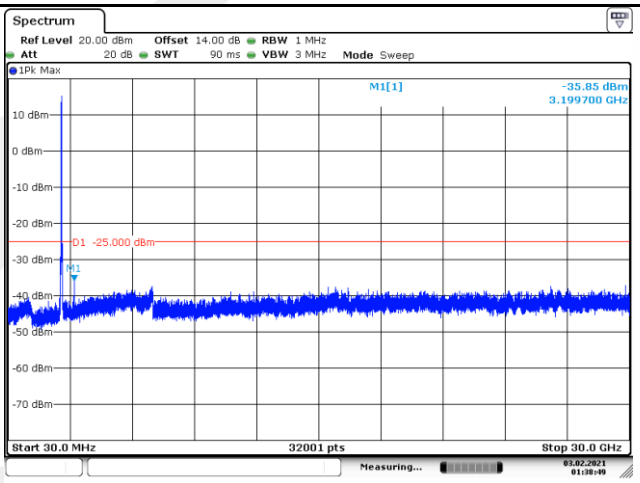
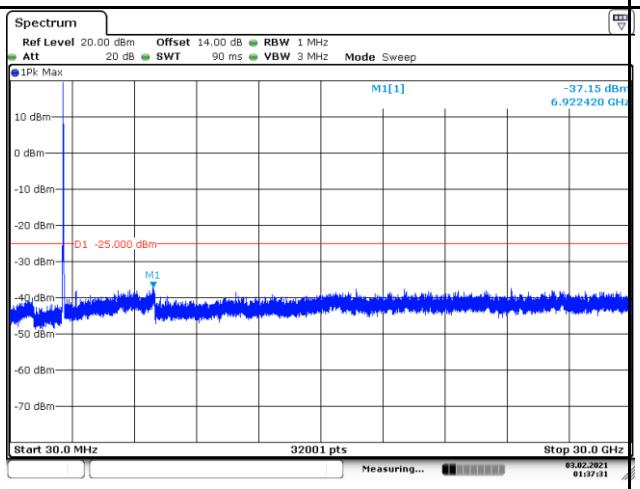
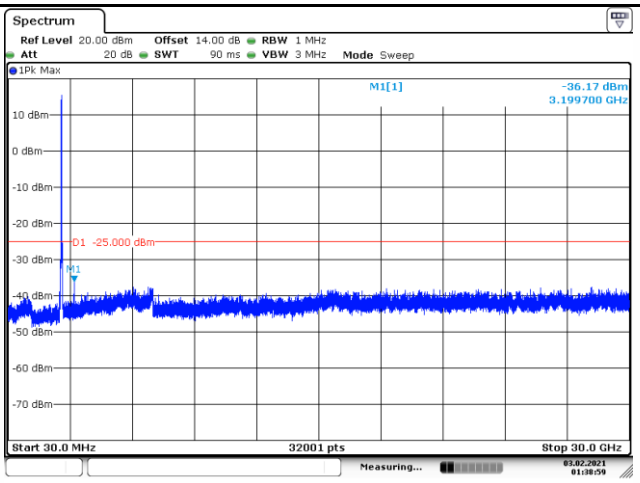
Note:
The data of LTE Band 7_CA and LTE Band 41_CA are recorded as below. And the other data please see Appendix 4G BAND2, BAND4, BAND5, BAND7, BAND12, BAND13, BAND26, BAND66, BAND41.

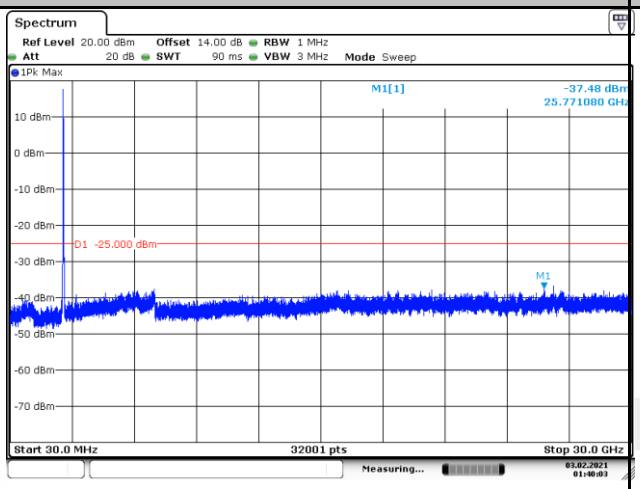
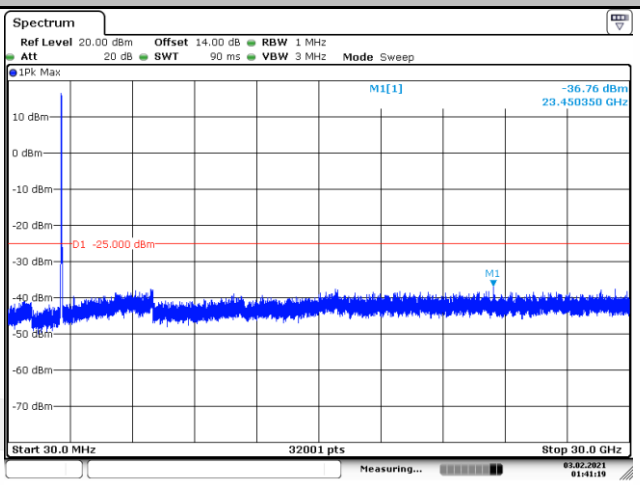
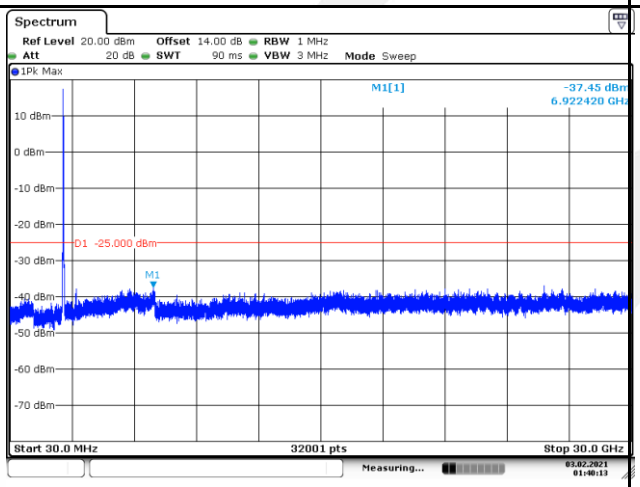
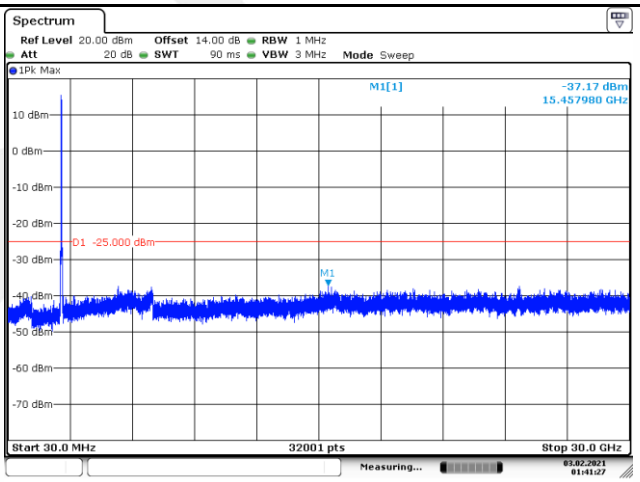
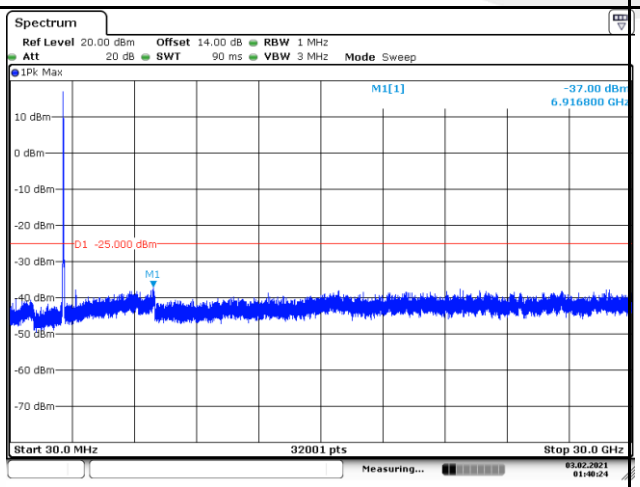
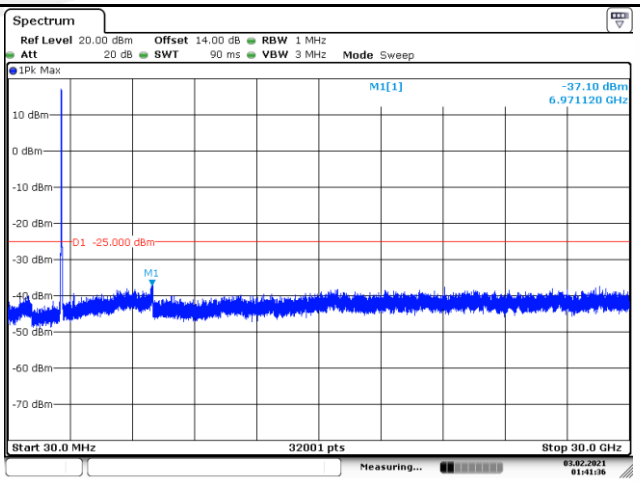
LTE Band 7_CA: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS - Middle Channel		
	10+20MHz – Middle Channel - RB1#0 & RB1#99	20+10MHz – Middle Channel - RB1#0 & RB1#49
QPSK		
16QAM		
64QAM		

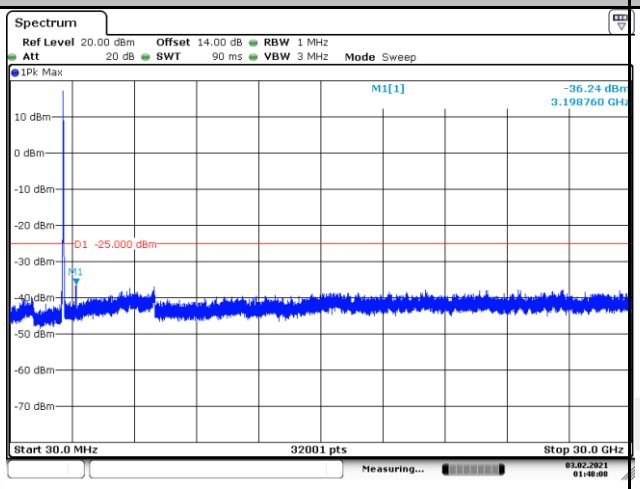
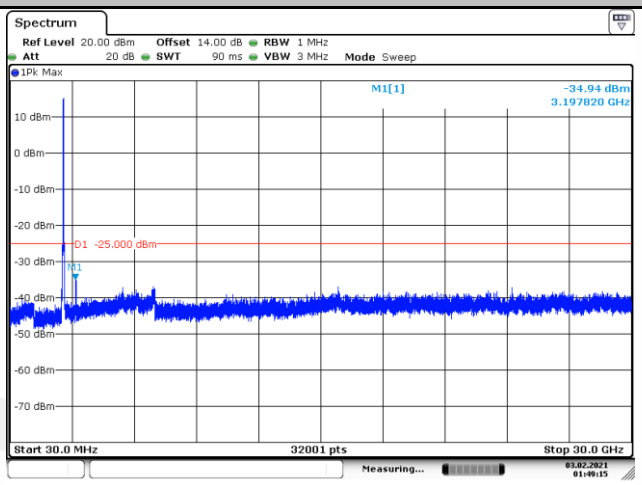
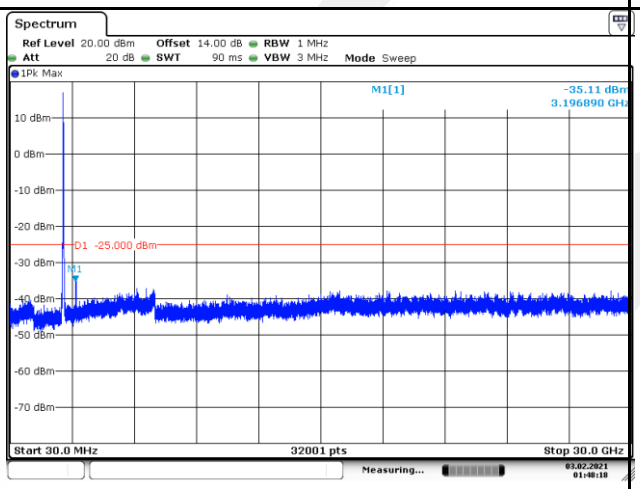
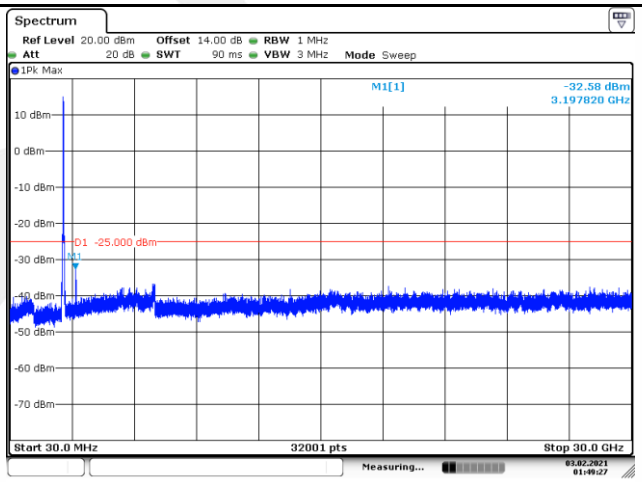
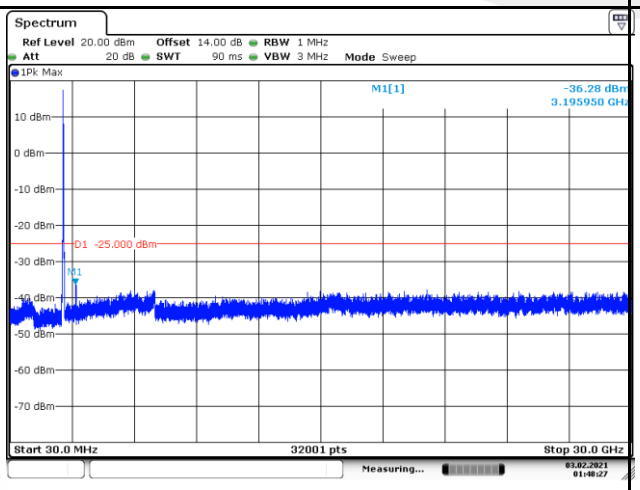
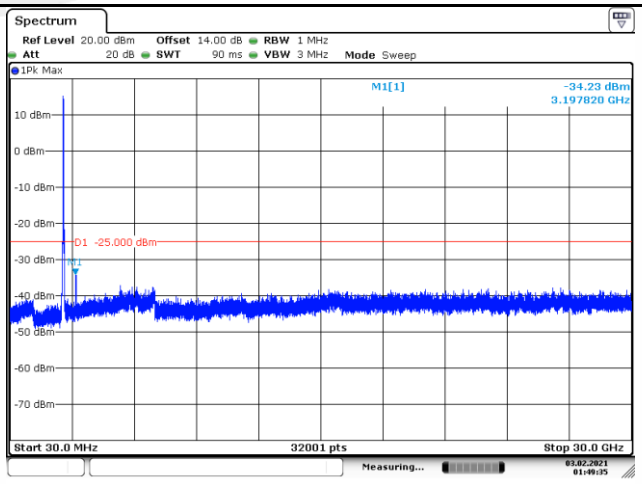
LTE Band 7_CA: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS - Middle Channel		
	15+10MHz – Middle Channel - RB1#0 & RB1#49	15+15MHz – Middle Channel - RB1#0 & RB1#74
QPSK		
16QAM		
64QAM		

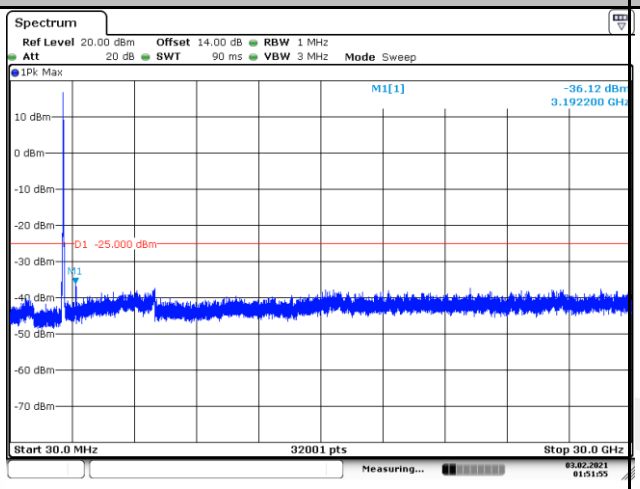
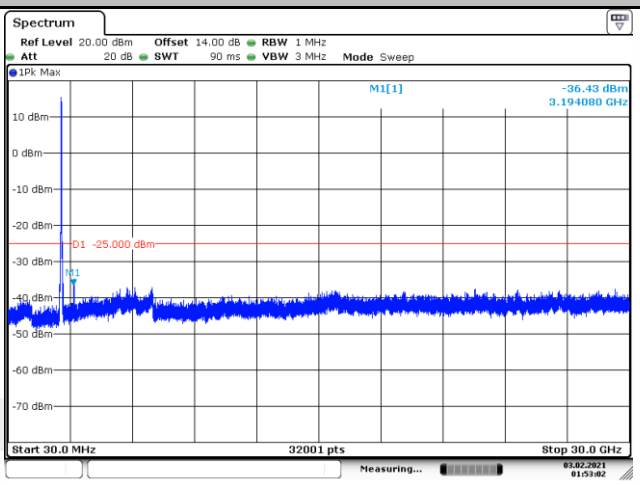
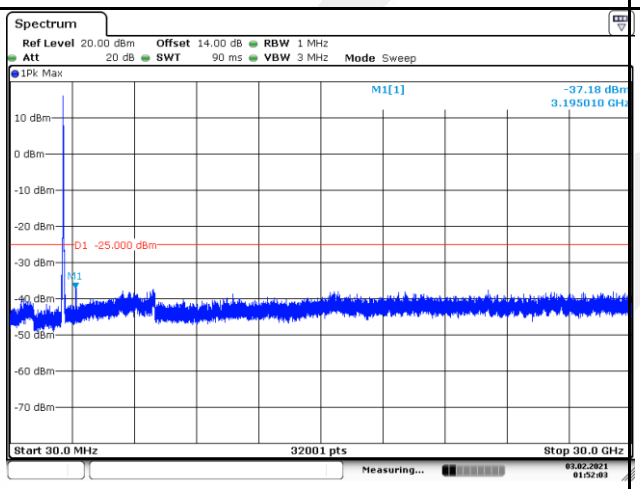
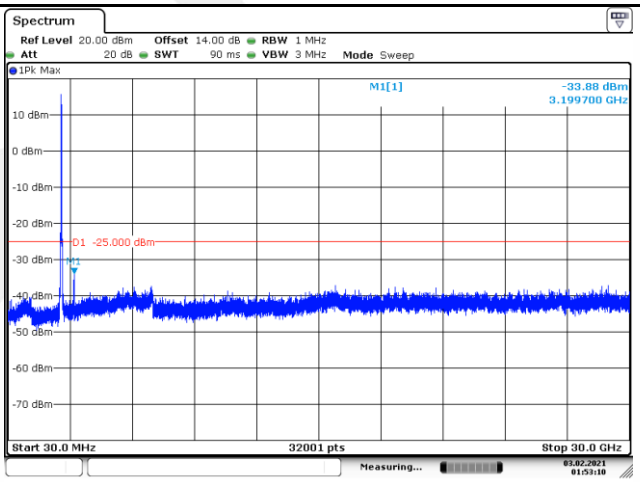
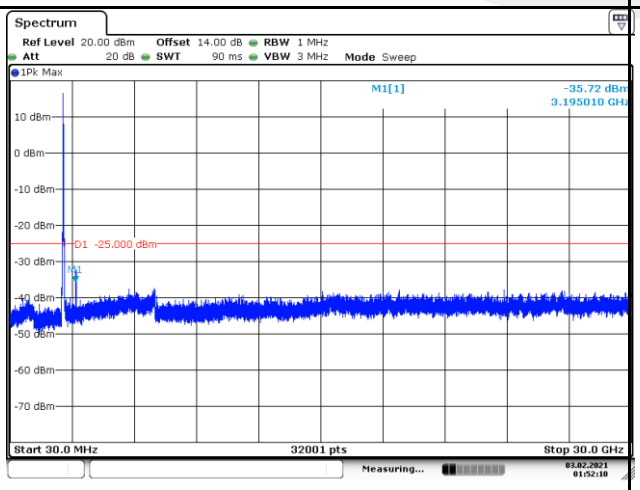
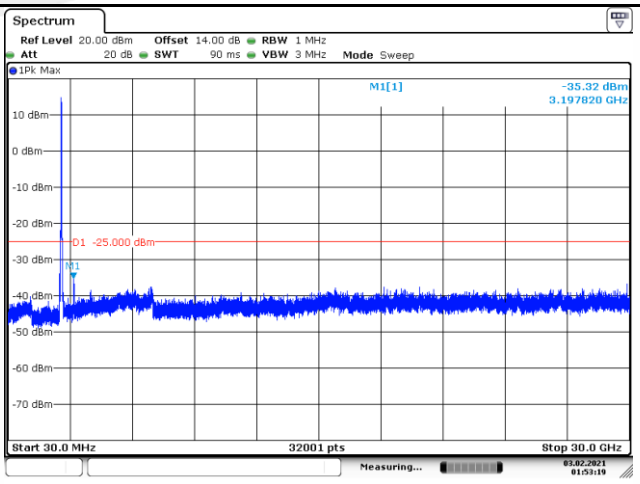
LTE Band 7_CA: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS - Middle Channel		
	15+20MHz – Middle Channel - RB1#0 & RB1#99	20+15MHz – Middle Channel - RB1#0 & RB1#74
QPSK		
16QAM		
64QAM		

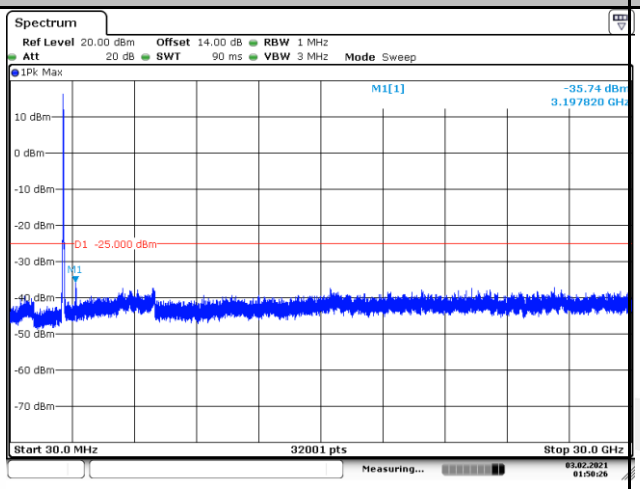
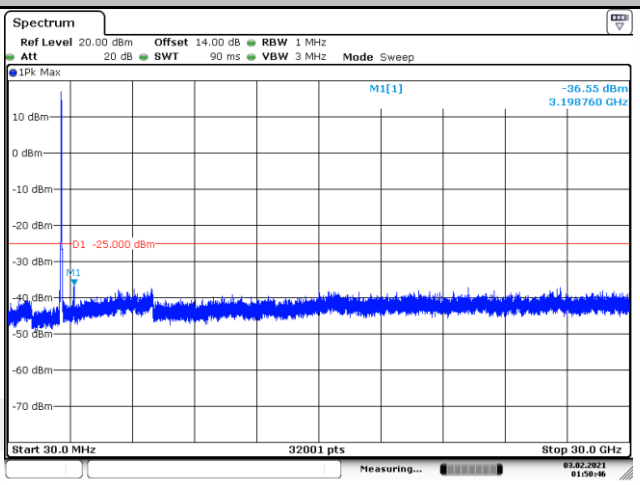
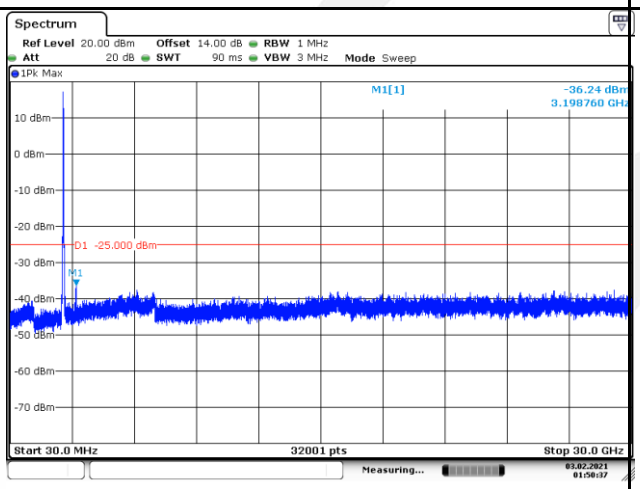
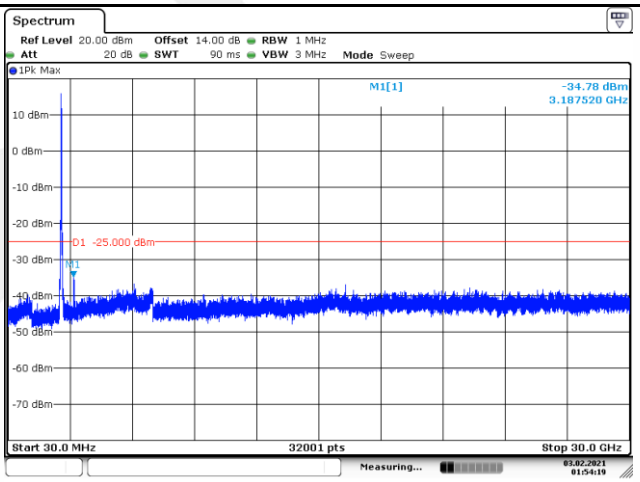
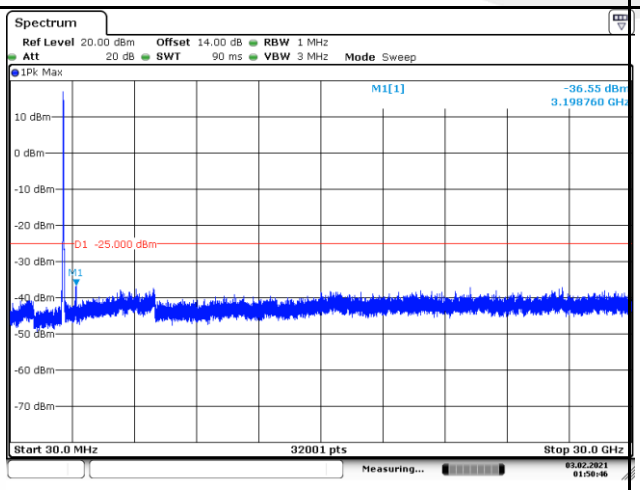
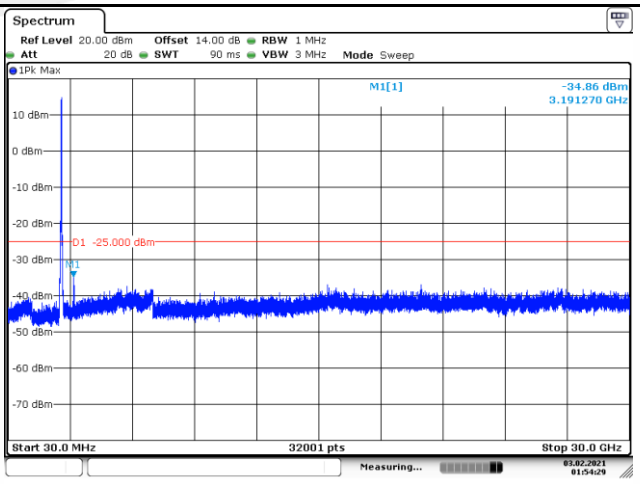
LTE Band 7_CA: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS - Middle Channel		
	20+20MHz – Middle Channel - RB1#0 & RB1#99	N/A
QPSK		
16QAM		
64QAM		

LTE Band 41_CA: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS - Middle Channel		
	5+20MHz – Middle Channel - RB1#0 & RB1#99	20+5MHz – Middle Channel - RB1#0 & RB1#24
QPSK		
16QAM		
64QAM		

LTE Band 41_CA: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS - Middle Channel		
	10+15MHz – Middle Channel - RB1#0 & RB1#74	15+10MHz – Middle Channel - RB1#0 & RB1#49
QPSK		
16QAM		
64QAM		

LTE Band 41_CA: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS - Middle Channel		
	10+20MHz – Middle Channel - RB1#0 & RB1#99	20+10MHz – Middle Channel - RB1#0 & RB1#49
QPSK		
16QAM		
64QAM		

LTE Band 41_CA: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS - Middle Channel		
	15+20MHz – Middle Channel - RB1#0 & RB1#99	20+15MHz – Middle Channel - RB1#0 & RB1#74
QPSK		
16QAM		
64QAM		

LTE Band 41_CA: OUT OF BAND EMISSIONS AT ANTENNA TERMINALS - Middle Channel		
	15+15MHz – Middle Channel - RB1#0 & RB1#74	20+20MHz – Middle Channel - RB1#0 & RB1#99
QPSK		
16QAM		
64QAM