5.5.7 LTE Band 17

LTE Band 17									
Channel	RB Configuration		26 dB BW (MHz)			99% BW (MHz)			
	Size	Offset	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM	
Channel Bandwidth: 5 MHz									
Lowest	25	0	5.165	5.178	/	4.5200	4.5434	/	
Middle	25	0	5.197	5.172	/	4.5347	4.5356	/	
Highest	25	0	5.119	5.155	1	4.5205	4.5314	/	
Channel Bandwidth: 10 MHz									
Lowest	50	0	10.16	10.05	/	9.0606	9.0178	/	
Middle	50	0	10.24	10.09	/	9.0473	9.0325	/	
Highest	50	0	10.11	10.05	1	9.0305	9.0310	/	



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5.6 BAND EDGE AT ANTENNA TERMINALS

 Test Requirement:
 LTE Band 2 & LTE Band 25: FCC 47 CFR Part 24.238(a)

 LTE Band 4 & LTE Band 66: FCC 47 CFR Part 27.53(h)(1)
 LTE Band 5 & LTE Band 26: FCC 47 CFR Part 22.917(a)

 LTE Band 7 & Band 38 & Band 41: FCC 47 CFR Part 27.53(m)(4)
 LTE Band 12 & Band 17: FCC 47 CFR Part 27.53(g)

 LTE Band 13: FCC 47 CFR Part 27.53(c)(2)
 ANSI C63.26-2015 & KDB 971168 D01v03r01

Limit:

FCC 47 CFR Part 24.238(a), 27.53(h)(1), 22.917(a) :

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 emission limit equal to -13 dBm.

FCC 47 CFR Part 27.53(m)(4):

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.

FCC 47 CFR Part 27.53(g):

For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least 43 + 10 log (P) dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

FCC 47 CFR Part 27.53(c)(2):

On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;

Test Procedure:

The transmitter output was connected to a calibrated coaxial cable and coupler, the other end of which was connected to a spectrum analyzer.

For each band edge measurement:

- 1) Set the spectrum analyzer span to include the block edge frequency.
- 2) Set a marker to point the corresponding band edge frequency in each test case.
- 3) Set display line at -13 dBm
- 4) Set resolution bandwidth to at least 1% of emission bandwidth.
- 5) Set spectrum analyzer with RMS detector.
- 6) Record the max trace plot into the test report

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

Test Setup:	Refer to section 4.2.2 for details.				
Instruments Used:	Refer to section 3 for details				
Test Mode:	Link mode				
Test Results:	Pass				

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5.6.1 LTE Band 2



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