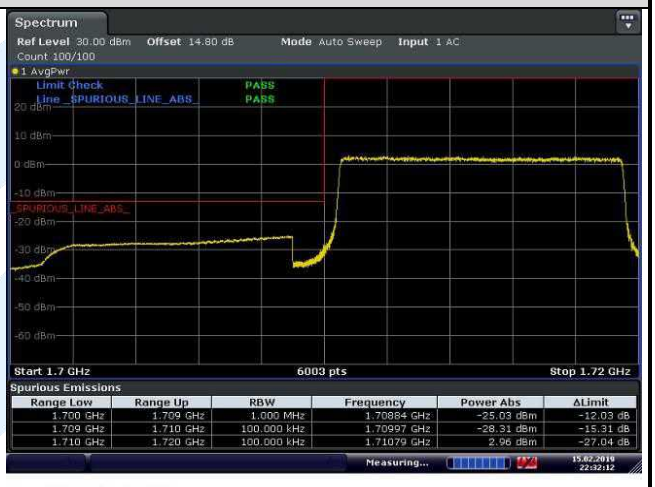
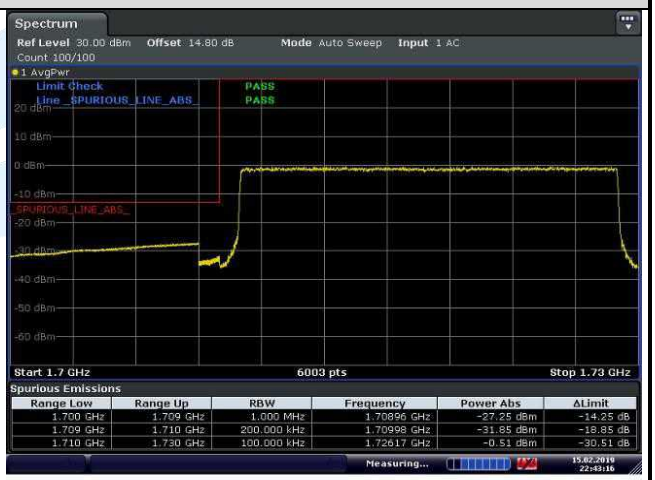
LTE Band 4 / 10 MHz / QPSK	
1 RB	Full RB
Lowest Channel	

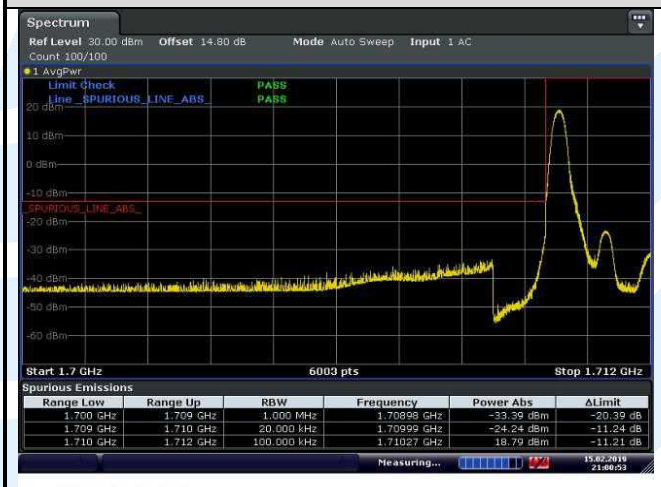


Highest Channel	

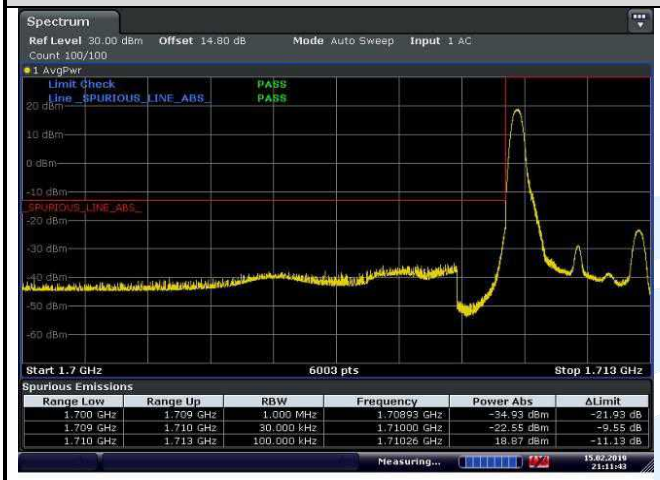
LTE Band 4 / 15 MHz / QPSK	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	
	

LTE Band 4 / 20 MHz / QPSK	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	

LTE Band 4 / 1.4 MHz / 16QAM	
1 RB	Full RB
Lowest Channel	

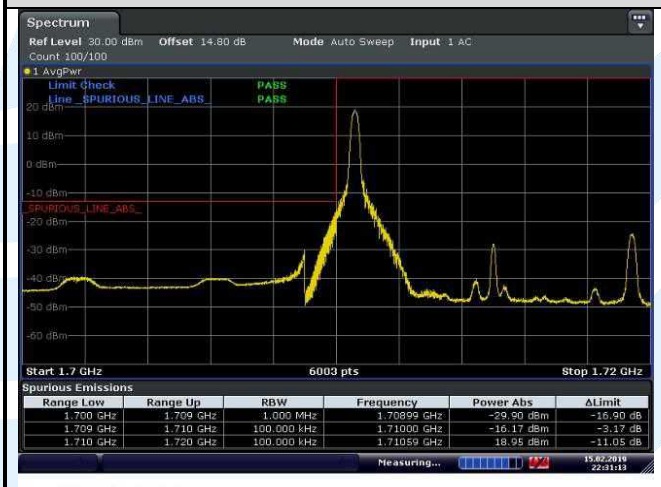


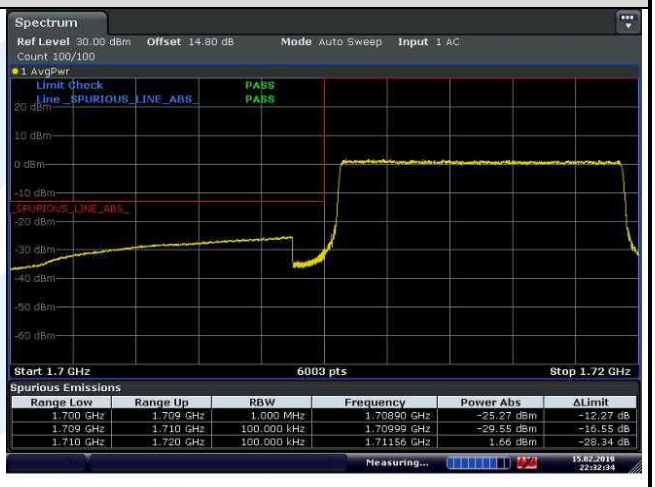
Highest Channel	

LTE Band 4 / 3 MHz / 16QAM	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	
	

LTE Band 4 / 5 MHz / 16QAM	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	

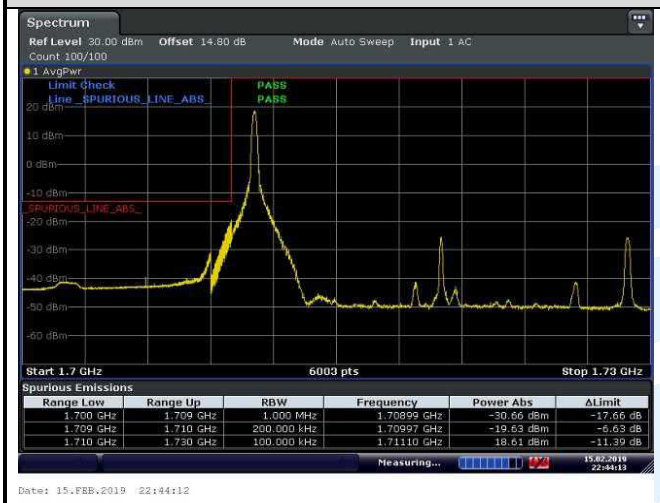
LTE Band 4 / 10 MHz / 16QAM	
1 RB	Full RB
Lowest Channel	





Highest Channel	

LTE Band 4 / 15 MHz / 16QAM	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	
	

LTE Band 4 / 20 MHz / 16QAM	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	
	

LTE Band 5

LTE Band 5 / 1.4 MHz / QPSK	
1 RB	**Full RB**
Lowest Channel	
	
Highest Channel	
	

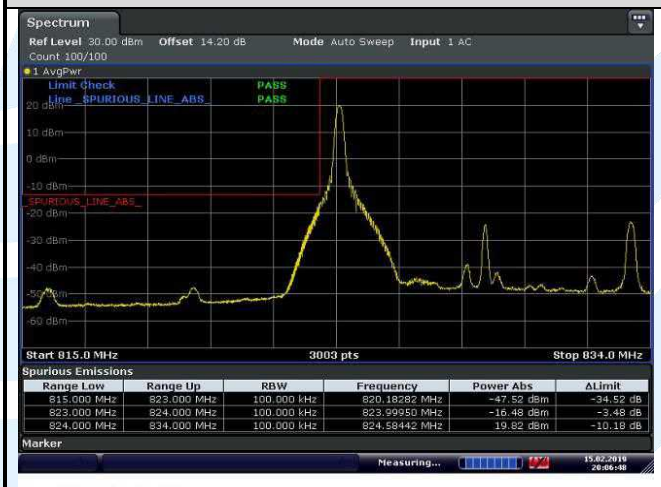
LTE Band 5 / 3 MHz / QPSK	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	
	

LTE Band 5 / 5 MHz / QPSK	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	

LTE Band 5 / 10 MHz / QPSK

1 RB	Full RB

Lowest Channel

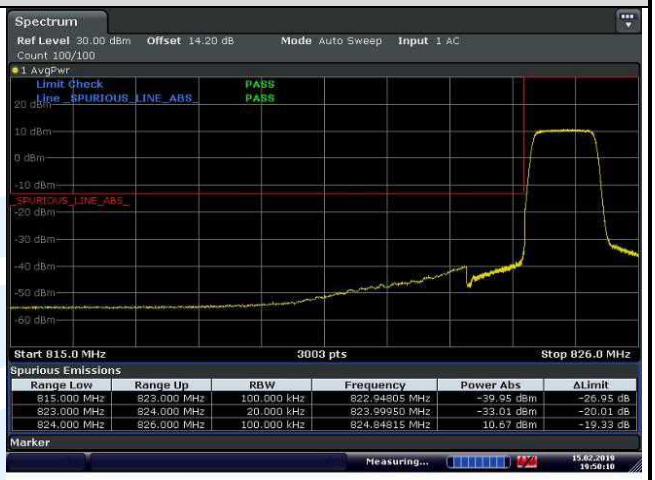


Highest Channel

LTE Band 5 / 1.4 MHz / 16QAM

1 RB	Full RB

Lowest Channel



Highest Channel

LTE Band 5 / 3 MHz / 16QAM

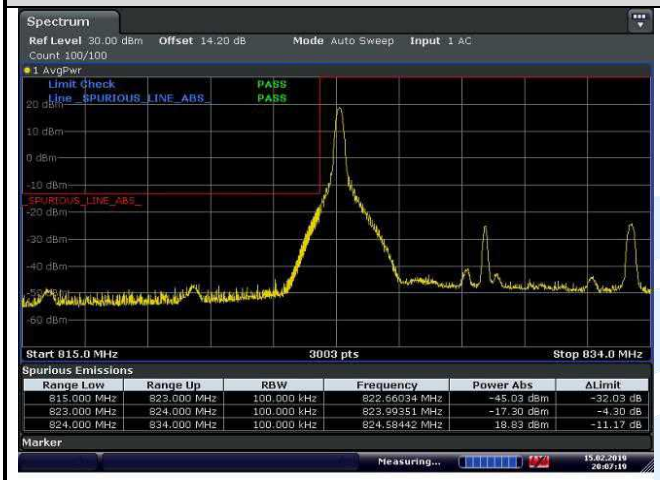
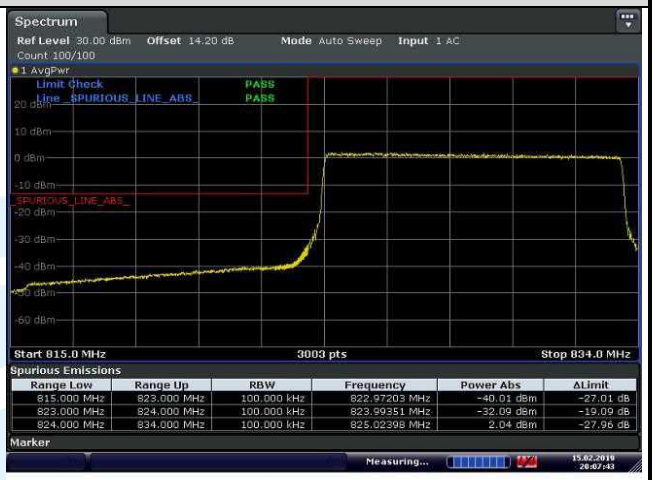
1 RB	Full RB

Lowest Channel

Highest Channel

LTE Band 5 / 5 MHz / 16QAM	
1 RB	Full RB
Lowest Channel	

Highest Channel	

LTE Band 5 / 10 MHz / 16QAM	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	
	

LTE Band 7

LTE Band 7 / 5 MHz / QPSK	
1 RB	**Full RB**
Lowest Channel	
	
Highest Channel	
	

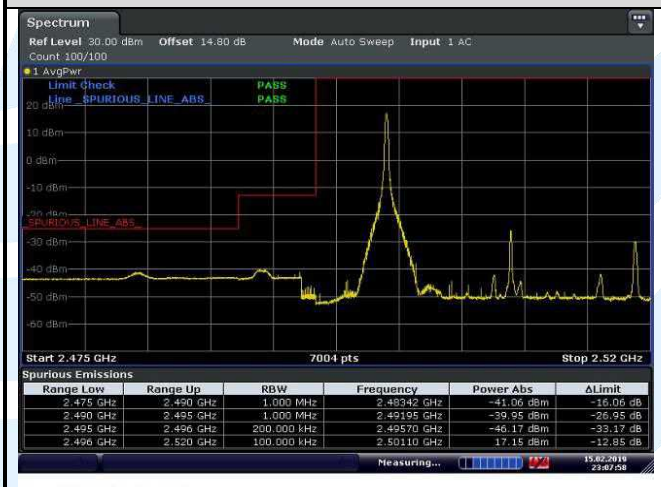
LTE Band 7 / 10 MHz / QPSK	
1 RB	**Full RB**
Lowest Channel	
	
Highest Channel	
	

LTE Band 7 / 15 MHz / QPSK	
1 RB	**Full RB**
Lowest Channel	
	
Highest Channel	

LTE Band 7 / 20 MHz / QPSK

1 RB	Full RB

Lowest Channel



Highest Channel

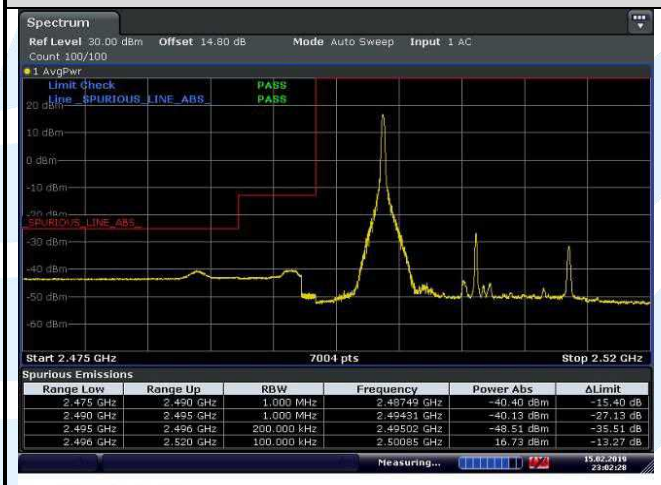
LTE Band 7 / 5 MHz / 16QAM	
1 RB	Full RB
Lowest Channel	
	
Date: 15.FEB.2019 22:51:57	Date: 15.FEB.2019 22:50:27
Highest Channel	
	
Date: 15.FEB.2019 22:53:47	Date: 15.FEB.2019 22:54:12

LTE Band 7 / 10 MHz / 16QAM	
1 RB	Full RB
Lowest Channel	
	
Date: 15.FEB.2019 22:55:36	Date: 15.FEB.2019 22:57:06
Highest Channel	

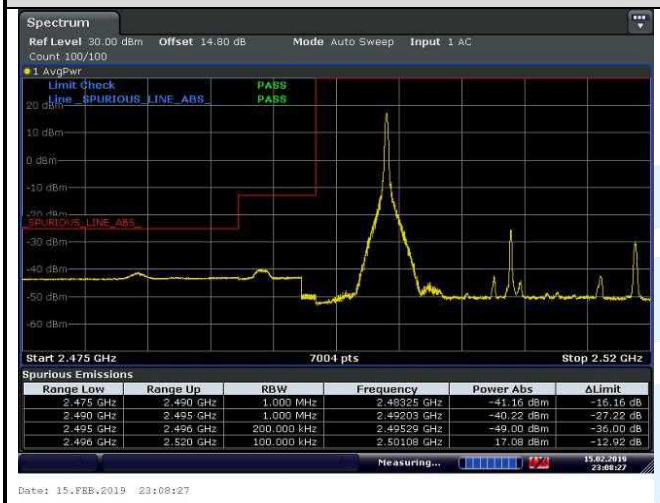
LTE Band 7 / 15 MHz / 16QAM

1 RB	Full RB

Lowest Channel



Highest Channel

LTE Band 7 / 20 MHz / 16QAM	
1 RB	Full RB
Lowest Channel	
	
Highest Channel	
	

5.7 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Test Requirement:	FCC 47 CFR Part 2.1051, **GSM 850 & WCDMA Band V & LTE Band 5:** FCC 47 CFR Part 22.917(a)(b), **GSM 1900 & WCDMA Band II & LTE Band 2:** FCC 47 CFR Part 24.238(a)(b), **LTE Band 4:** FCC 47 CFR Part 27.53(h)(1), **LTE Band 7:** FCC 47 CFR Part 27.53(m)(4)
Test Method:	ANSI/TIA-603-E-2016 & KDB 971168 D01v03r01

Limit:

FCC 47 CFR Part 22 & FCC 47 CFR Part 24: 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(h)(1): Except as otherwise specified below, for operations in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz, and 2180-2200 bands, 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 log10 (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.

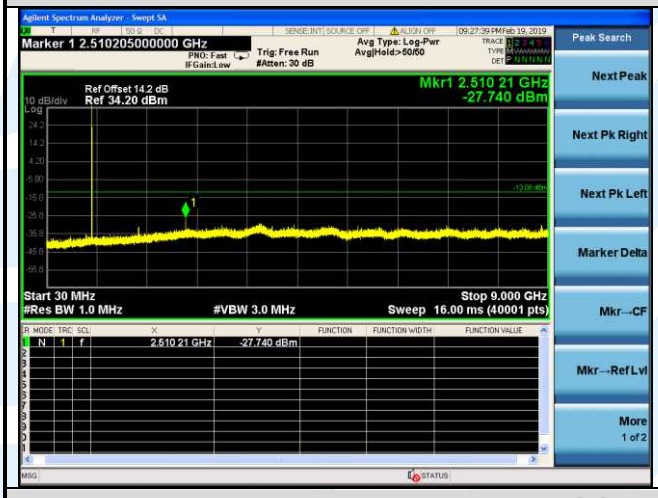
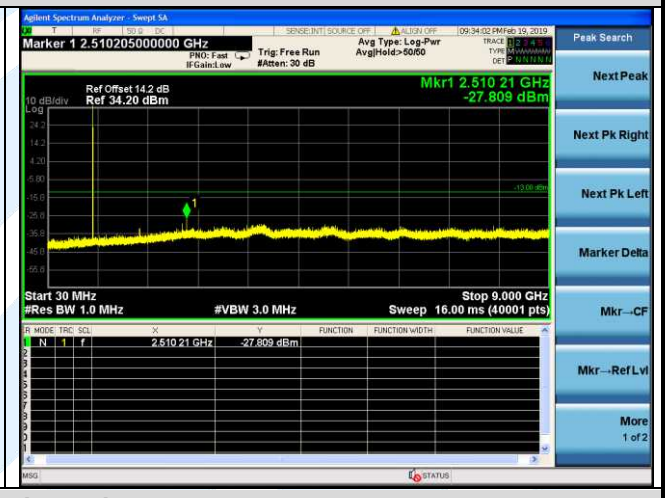
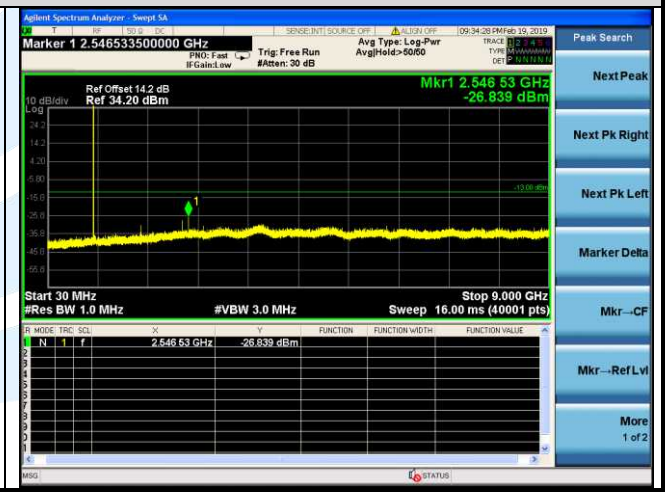
Test Procedure:

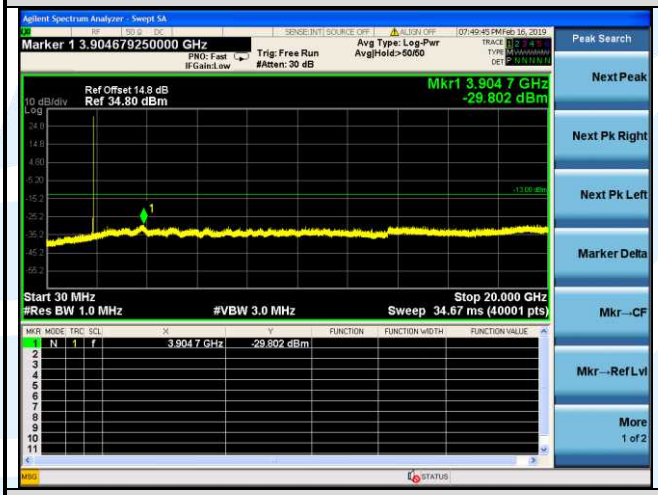
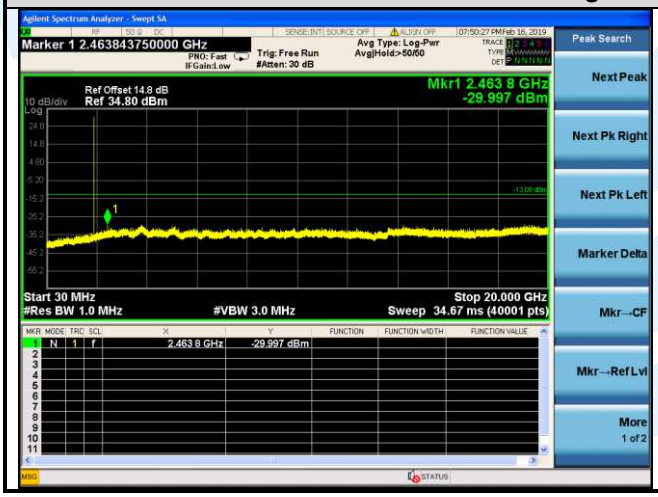
The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range. b. Measuring frequency range is from 30 MHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower. Set RBW & VBW to 100 kHz for the measurement below 1 GHz, and 1 MHz for the measurement above 1 GHz.

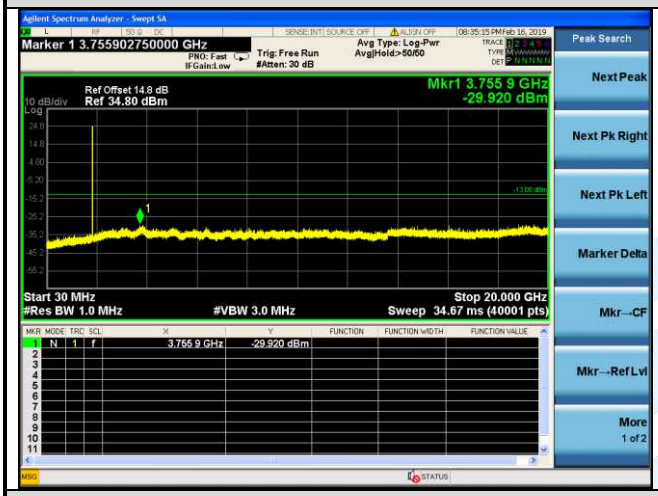
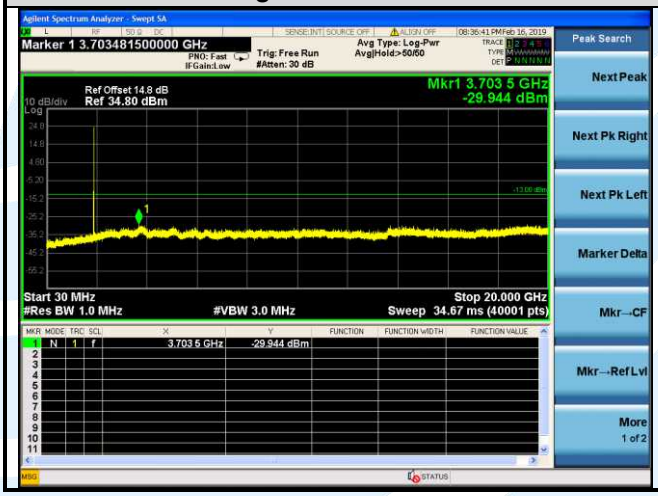
Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

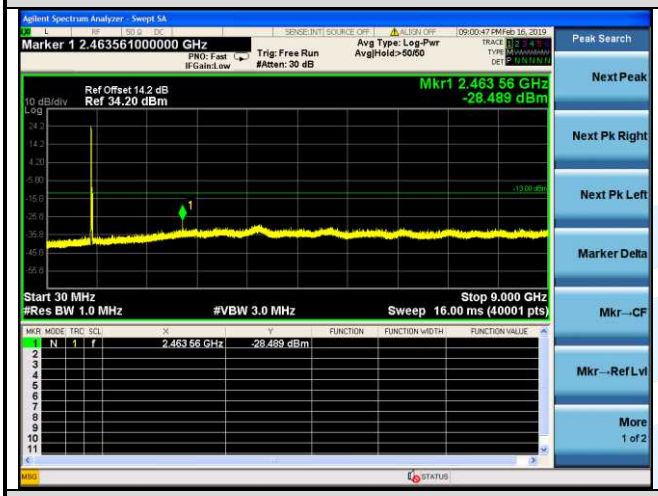
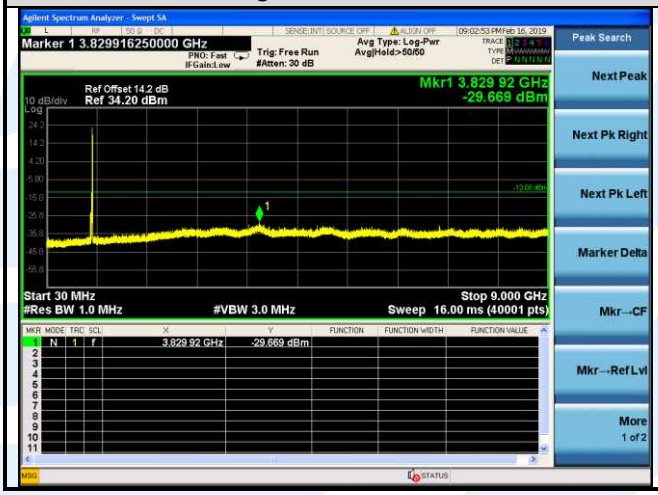
Test Setup:	Refer to section 4.2.2 for details.
Instruments Used:	Refer to section 3 for details
Test Mode:	Link mode
Test Results:	Pass

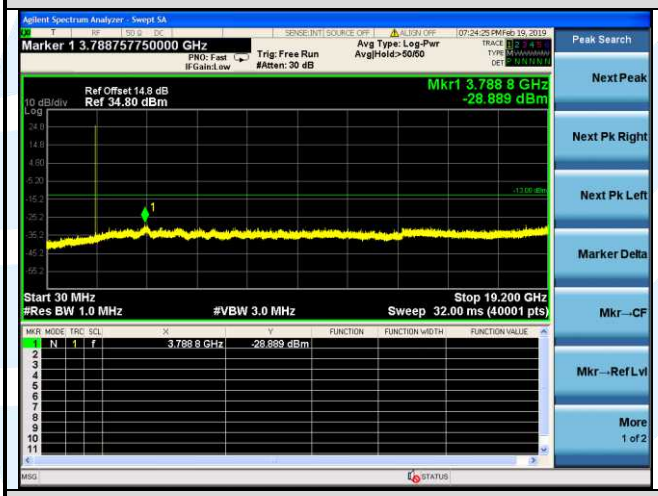
The test plots as follows:

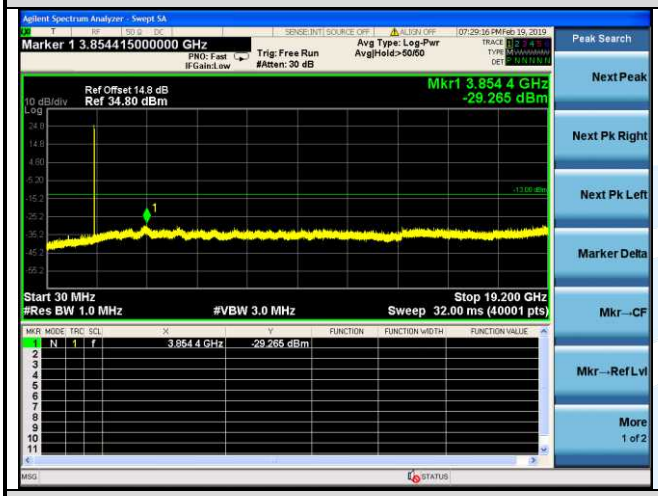
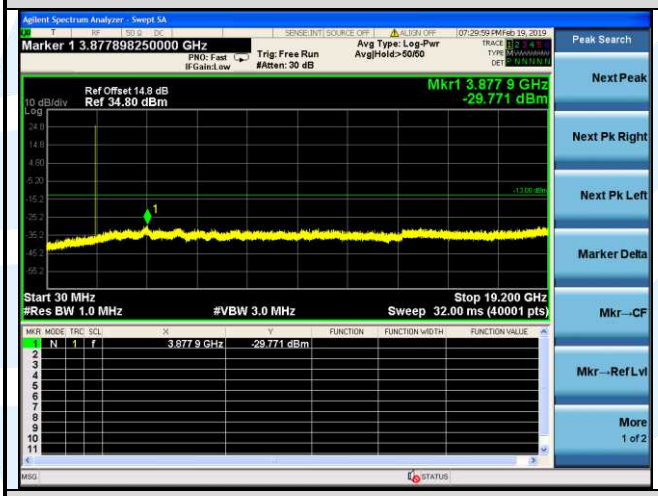
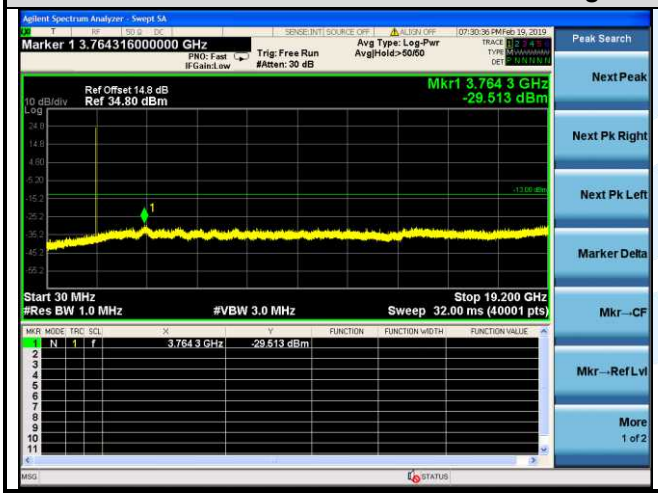
GSM 850 1Tx-slot	EDGE 850 1Tx-slot
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

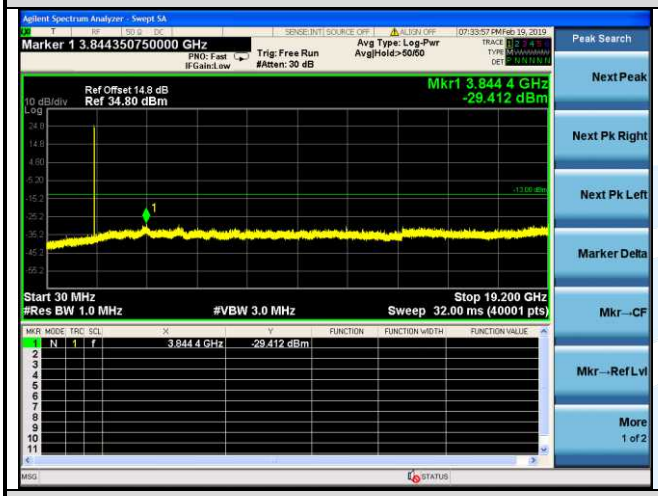
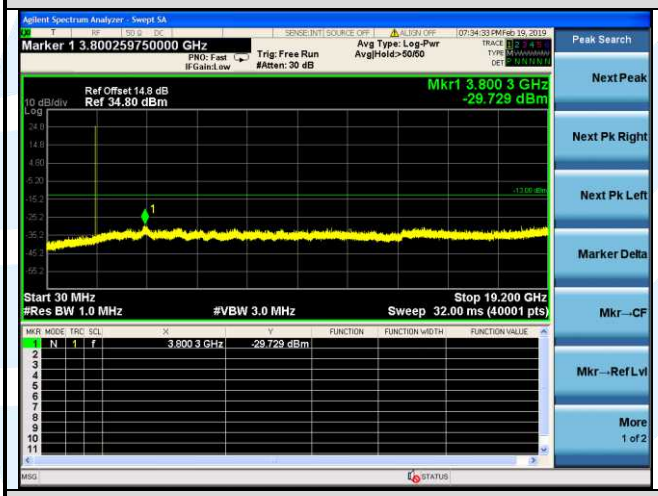
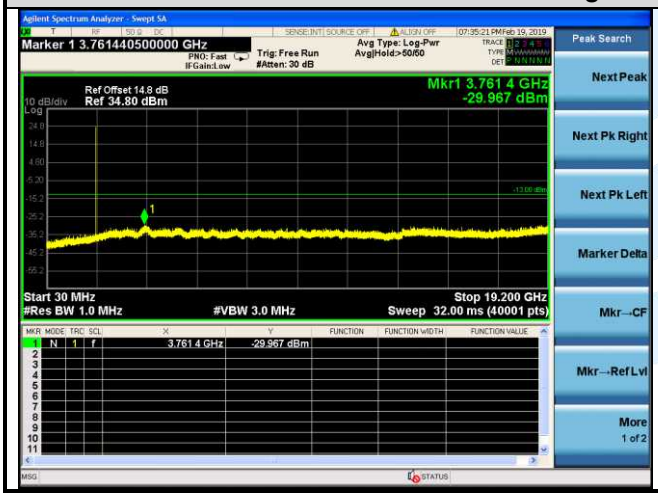
GSM 1900 1Tx-slot	EDGE 1900 1Tx-slot
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

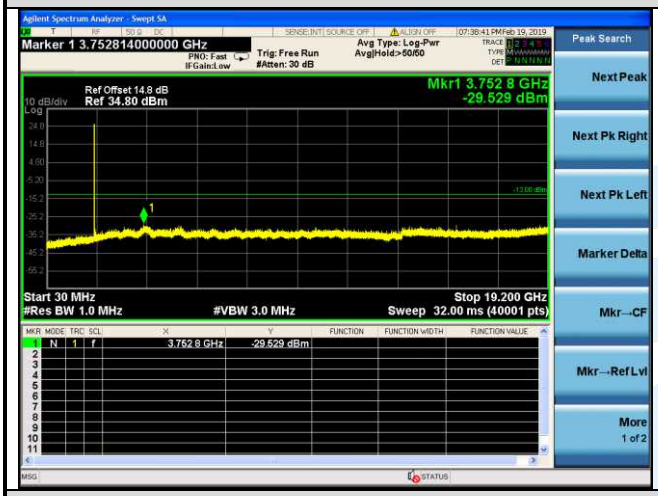
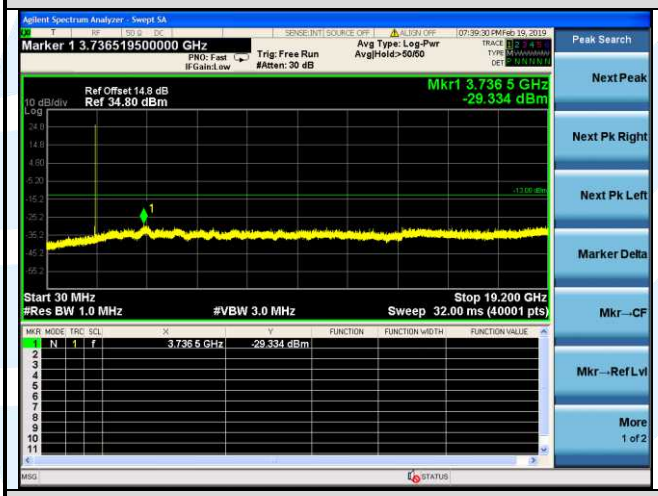
WCDMA Band II	
Lowest Channel	**Middle Channel**
	
Highest Channel	
	N/A

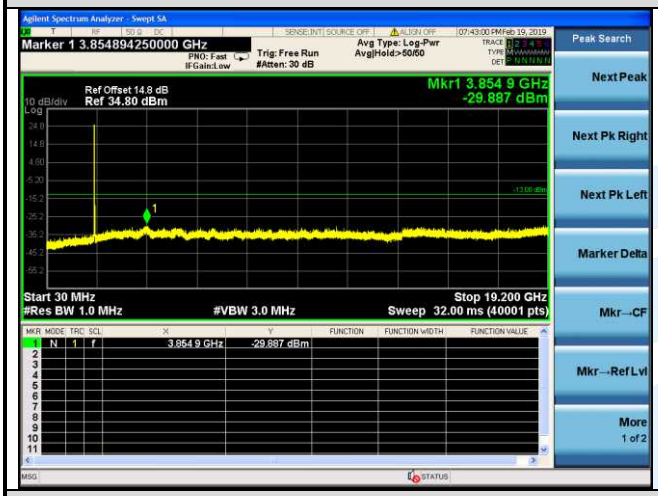
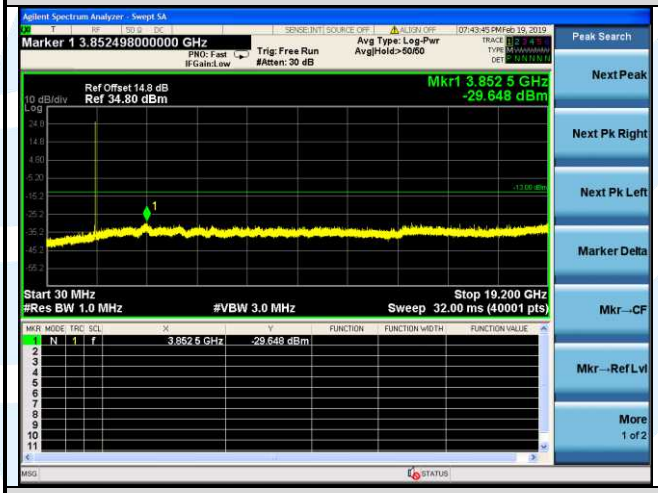
WCDMA Band V	
Lowest Channel	**Middle Channel**
	
Highest Channel	
	N/A

LTE Band 2_ Channel Bandwidth: 1.4 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

LTE Band 2_ Channel Bandwidth: 3 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

LTE Band 2_ Channel Bandwidth: 5 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

LTE Band 2_ Channel Bandwidth: 10 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel	
	

LTE Band 2_ Channel Bandwidth: 15 MHz	
QPSK	16QAM
Lowest Channel	
	
Middle Channel	
	
Highest Channel