Shenzhen CTL Testing Technology Co., Ltd.
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TEST REPORT

FCC Part 27

Report Reference No. ..... : **CTL1806216041-WF04**

Compiled by: (position+printed name+signature)	Allen Wang (File administrators)	Allen Wang
Tested by: (position+printed name+signature)	Nice Nong (Test Engineer)	Nice Nong
Approved by: (position+printed name+signature)	Ivan Xie (Manager)	Ivan Xie

Product Name ..... : Wireless Infrared Scouting Camera

Model/Type reference ..... : Enigma LTE AT&T

List Model(s)..... : N/A

Trade Mark..... : 1stcampro

FCC ID..... : **2APYZ-ENIGMA1**

Applicant's name ..... : **FirstCam Outdoor Inc.**

Address of applicant ..... : 11027 S. Pikes Peak Dr., Unit #106 Parker, CO 80138 US

Test Firm..... : **Shenzhen CTL Testing Technology Co., Ltd.**

Address of Test Firm ..... : Floor 1-A, Baisha Technology Park, No.3011, Shahexi Road, Nanshan District, Shenzhen, China 518055

Test specification..... :

Standard ..... : **FCC CFR Title 47 Part 2, Part 27**
EIA/TIA 603-D: 2010
KDB 971168 D01

TRF Originator ..... : Shenzhen CTL Testing Technology Co., Ltd.

Master TRF..... : Dated 2011-01

Date of Receipt..... : Jun. 25, 2018

Date of Test Date..... : Jun. 26, 2018–Jul. 10, 2018

Data of Issue..... : Jul. 11, 2018

Result..... : Pass

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TEST REPORT

Test Report No. : CTL1806216041-WF04	Jul. 11, 2018 Date of issue

Equipment under Test	:	Wireless Infrared Scouting Camera
Model /Type	:	Enigma LTE AT&T
Listed Models	:	N/A
Applicant	**:**	**FirstCam Outdoor Inc.**
Address	:	11027 S. Pikes Peak Dr., Unit #106 Parker, CO 80138 US
Manufacturer	:	**UOVision Technology (Shenzhen) Co., Ltd.**
Address	:	4th Floor, A1 Building, Shunheda Factory, liuxiandong Industrial Zone, Xili street, Nanshan District, Shenzhen CHN 518055

Test result	**Pass ***

*In the configuration tested, the EUT complied with the standards specified page 5.

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

** Modified History **

Revisions	Description	Issued Data	Report No.	Remark
Version 1.0	Initial Test Report Release	2018-07-11	CTL1806216041-WF04	Tracy Qi

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1. SUMMARY

1.1. TEST STANDARDS

The tests were performed according to following standards:
FCC Part 27 : MISCELLANEOUS WIRELESS COMMUNICATIONS SERVICES
TIA/EIA 603 D June 2010:Land Mobile FM or PM Communications Equipment Measurement and Performance Standards.
FCC Part 2: FREQUENCY ALLOCA-TIONS AND RADIO TREATY MAT-TERS; GENERAL RULES AND REG-ULATIONS
KDB971168 D01: v02r02 MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS
ANSI C63.10: 2013: American National Standard for Testing Unlicensed Wireless Devices

ANSI C63.4: 2014: –American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz Range of 9 kHz to 40GHz

1.2. Test Description

Test Item	Section in CFR 47	Result
RF Output Power	Part 2.1046 Part 27.50(d)(4)	Pass
Peak-to-Average Ratio	Part 27.50(d)(4)	Pass
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 27.53(h)	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 27.53(h)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 27.53(h)	Pass
Out of band emission, Band Edge	Part 2.1051 Part 27.53(h)	Pass
Frequency stability	Part 2.1055 Part 27.54	Pass

1.3. Test Facility

1.3.1 Address of the test laboratory

Shenzhen CTL Testing Technology Co., Ltd.
Floor 1-A, Baisha Technology Park, No. 3011, Shahexi Road, Nanshan, Shenzhen 518055 China

There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.4 and CISPR 32/EN 55032 requirements.

1.3.2 Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

IC Registration No.: 9618B

The 3m alternate test site of Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration No.: 9618B on November 13, 2013.

FCC-Registration No.: 399832

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 399832, December 08, 2017.

1.4. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 “Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen CTL Testing Technology Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CTL laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.10dB	(1)
Radiated Emission	Above 1GHz	4.32dB	(1)
Conducted Disturbance	0.15~30MHz	3.20dB	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2. GENERAL INFORMATION

2.1. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Normal Temperature:	25°C
Relative Humidity:	55 %
Air Pressure:	101 kPa

2.2. General Description of EUT

Product Name:	Wireless Infrared Scouting Camera
Model/Type reference:	Enigma LTE AT&T
Power supply:	DC 6.0V from battery
LTE	
Operation Band:	FDD-LTE: Band 2/4/12
Modulation Type:	QPSK, 16QAM
Release Version:	Release 9
Category:	Cat 4
Antenna Type:	External antenna

Note: For more details, please refer to the user's manual of the EUT.

2.3. Description of Test Modes

The EUT has been tested under typical operating condition. The CMW500 used to control the EUT staying in continuous transmitting and receiving mode for testing. Regards to the frequency band operation: the lowest、middle and highest frequency of channel were selected to perform the test, then shown on this report.

2.4. Equipments Used during the Test

Test Equipment	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Due Date
Bilog Antenna	Sunol Sciences Corp.	JB1	A061713	2018/06/02	2019/06/01
Bilog Antenna	Sunol Sciences Corp.	JB1	A061714	2018/06/02	2019/06/01
EMI Test Receiver	R&S	ESCI	103710	2018/06/02	2019/06/01
Spectrum Analyzer	Agilent	E4407B	MY41440676	2018/05/21	2019/05/20
Spectrum Analyzer	Agilent	N9020	US46220290	2018/01/16	2019/01/17
Controller	EM Electronics	Controller EM 1000	N/A	2018/05/21	2019/05/20
Horn Antenna	Sunol Sciences Corp.	DRH-118	A062013	2018/05/19	2019/05/18
Horn Antenna	Sunol Sciences Corp.	DRH-118	A062014	2018/05/19	2019/05/18
Active Loop Antenna	SCHWARZBEC K	FMZB1519	1519-037	2018/05/19	2019/05/18
Amplifier	Agilent	8349B	3008A02306	2018/05/19	2019/05/18

Amplifier	Agilent	8447D	2944A10176	2018/05/19	2019/05/18
Temperature/Humidity Meter	Gangxing	CTH-608	02	2018/05/20	2019/05/19
Wideband Radio Communication Tester	R&S	CMW500	101814	2016/11/21	2017/11/20
High-Pass Filter	K&L	9SH10-2700/X12750-O/O	N/A	2018/05/20	2019/05/19
High-Pass Filter	K&L	41H10-1375/U12750-O/O	N/A	2018/05/20	2019/05/19
RF Cable	HUBER+SUHNER	RG214	N/A	2018/06/02	2019/06/01
Climate Chamber	ESPEC	EL-10KA	A20120523	2018/05/19	2019/05/18
SIGNAL GENERATOR	Agilent	E4421B	US40051744	2018/05/19	2019/05/18
Directional Coupler	Agilent	87300B	3116A03638	2018/05/19	2019/05/18

The calibration interval was one year

2.5. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended to comply with of the Part 27 Rules.

2.6. Modifications

No modifications were implemented to meet testing criteria.

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3. TEST CONDITIONS AND RESULTS

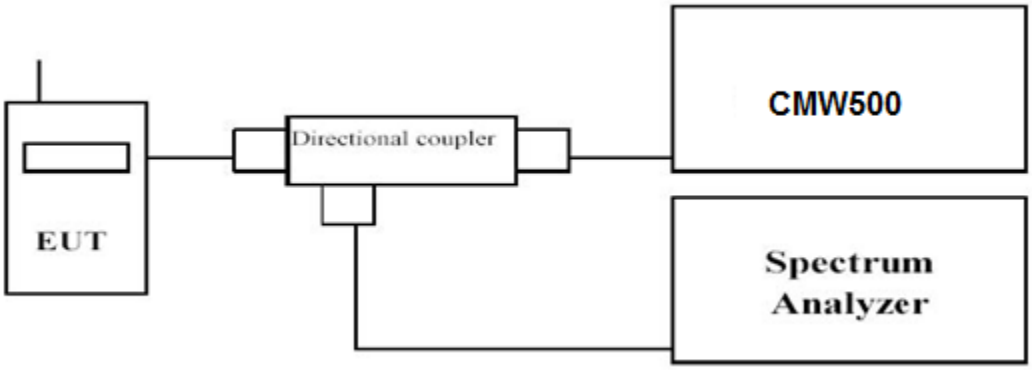
3.1. Output Power

LIMIT

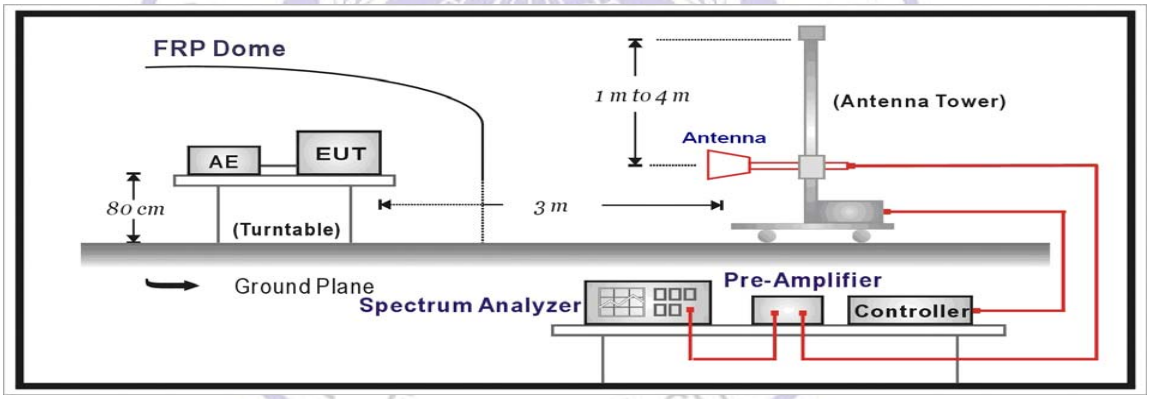
According to § 27.50 C(10): Portable stations (hand-held devices) in the 600 MHz uplink band and the 698-746 MHz band, and fixed and mobile stations in the 600 MHz uplink band are limited to 3 watts ERP."

TEST CONFIGURATION

Conducted Power Measurement



Radiated Power Measurement:



TEST PROCEDURE

The EUT was setup according to EIA/TIA 603D

Conducted Power Measurement:

a) Place the EUT on a bench and set it in transmitting mode.

b) Connect a low loss RF cable from the antenna port to a spectrum analyzer and CMW500 by a Directional Couple.

c) EUT Communicate with CMW500 then selects a channel for testing.

d) Add a correction factor to the display of spectrum, and then test.

Radiated Power Measurement:

a) The EUT shall be placed at the specified height on a support, and in the position closest to normal use as declared by provider.

b) The test antenna shall be oriented initially for vertical polarization and shall be chosen to correspond to the frequency of the transmitter

c) The output of the test antenna shall be connected to the measuring receiver.
d) The transmitter shall be switched on and the measuring receiver shall be tuned to the frequency of the transmitter under test.
e) The test antenna shall be raised and lowered through the specified range of height until a maximum signal level is detected by the measuring receiver.
f) The transmitter shall then be rotated through 360°in the horizontal plane, until the maximum signal level is detected by the measuring receiver.
g) The test antenna shall be raised and lowered again through the specified range of height until a maximum signal level is detected by the measuring receiver.
h) The maximum signal level detected by the measuring receiver shall be noted.
i) The transmitter shall be replaced by a substitution antenna.
j) The substitution antenna shall be orientated for vertical polarization and the length of the substitution antenna shall be adjusted to correspond to the frequency of the transmitter.
k) The substitution antenna shall be connected to a calibrated signal generator.
l) If necessary, the input attenuator setting of the measuring receiver shall be adjusted in order to increase the sensitivity of the measuring receiver.
m) The test antenna shall be raised and lowered through the specified range of height to ensure that the maximum signal is received.
n) The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the transmitter radiated power was measured, corrected for the change of input attenuator setting of the measuring receiver.
o) The measurement shall be repeated with the test antenna and the substitution antenna orientated for horizontal polarization.
p) The measure of the effective radiated power is the larger of the two levels recorded at the input to the substitution antenna, corrected for gain of the substitution antenna if necessary.
q) Test site anechoic chamber refer to ANSI C63.4.

TEST RESULTS

Conducted Measurement:

LTE FDD Band 12				
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	Average Power [dBm]	
			QPSK	16QAM
1.4 MHz	1 RB low	699.7	23.14	22.39
		707.5	23.11	22.40
		715.3	21.79	21.19
	1 RB high	699.7	22.22	21.40
		707.5	22.35	21.92
		715.3	23.02	22.37
	50% RB mid	699.7	22.74	22.01
		707.5	22.77	22.26
		715.3	23.19	22.83
	100% RB	699.7	21.73	20.96
		707.5	23.10	22.39
		715.3	22.84	22.34
3 MHz	1 RB low	700.5	21.63	20.97
		707.5	22.91	22.35
		714.5	23.27	22.49
	1 RB high	700.5	22.27	21.46
		707.5	22.20	21.41
		714.5	23.48	23.09
	50% RB mid	700.5	22.06	21.61
		707.5	21.55	20.71
		714.5	21.50	20.98
	100% RB	700.5	21.67	21.06
		707.5	21.62	21.26
		714.5	22.84	22.11
5 MHz	1 RB low	701.5	22.10	21.46
		707.5	22.20	21.42
		713.5	21.65	20.89
	1 RB high	701.5	22.26	21.83
		707.5	21.72	20.90
		713.5	23.09	22.51
	50% RB mid	701.5	22.77	22.10
		707.5	22.55	21.83
		713.5	22.67	22.05
	100% RB	701.5	22.41	21.56
		707.5	21.89	21.36
		713.5	22.84	22.46
10 MHz	1 RB low	704.0	22.86	22.42
		707.5	22.89	22.27
		711.0	21.70	21.23
	1 RB high	704.0	22.77	22.36
		707.5	22.27	21.64
		711.0	22.83	22.12
	50% RB mid	704.0	22.49	21.76
		707.5	23.47	22.66
		711.0	22.89	22.42
	100% RB	704.0	23.42	22.67
		707.5	23.11	22.33
		711.0	23.37	22.87

Radiated Measurement:

Remark:

1. *We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 12; recorded worst case for each Channel Bandwidth of LTE FDD Band 12.*
2. *EIRP=P_{Mea}(dBm)-P_{cl}(dB)+P_{Ag}(dB)+G_a(dBi)*

LTE FDD Band 12_Channel Bandwidth 1.4MHz_QPSK

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	Correction (dB)	P_{Ag} (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
699.7	-14.84	2.38	8.23	2.15	36.70	25.56	34.77	9.21	V
707.5	-14.89	2.40	8.29	2.15	36.70	25.55	34.77	9.22	V
715.3	-14.51	2.43	8.28	2.15	36.70	25.89	34.77	8.88	V

LTE FDD Band 12_Channel Bandwidth 3MHz_QPSK

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	Correction (dB)	P_{Ag} (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
700.5	-14.53	2.38	8.23	2.15	36.70	25.87	34.77	8.90	V
707.5	-15.45	2.40	8.29	2.15	36.70	24.99	34.77	9.78	V
714.5	-14.99	2.43	8.28	2.15	36.70	25.41	34.77	9.36	V

LTE FDD Band 12_Channel Bandwidth 5MHz_QPSK

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	Correction (dB)	P_{Ag} (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
701.5	-14.80	2.38	8.23	2.15	36.70	25.60	34.77	9.17	V
707.5	-14.42	2.40	8.29	2.15	36.70	26.02	34.77	8.75	V
713.5	-14.05	2.43	8.28	2.15	36.70	26.35	34.77	8.42	V

LTE FDD Band 12_Channel Bandwidth 10MHz_QPSK

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	Correction (dB)	P_{Ag} (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
704.0	-15.25	2.38	8.23	2.15	36.70	25.15	34.77	9.62	V
707.5	-15.00	2.40	8.29	2.15	36.70	25.44	34.77	9.33	V
711.0	-15.10	2.43	8.28	2.15	36.70	25.30	34.77	9.47	V

LTE FDD Band 12_Channel Bandwidth 1.4MHz_16QAM

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	Correction (dB)	P_{Ag} (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
699.7	-15.19	2.38	8.23	2.15	36.70	25.21	34.77	9.56	V
707.5	-15.33	2.40	8.29	2.15	36.70	25.11	34.77	9.66	V
715.3	-15.02	2.43	8.28	2.15	36.70	25.38	34.77	9.39	V

LTE FDD Band 12_Channel Bandwidth 3MHz_16QAM

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	Correction (dB)	P_{Ag} (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
700.5	-15.87	2.38	8.23	2.15	36.70	24.53	34.77	10.24	V
707.5	-15.76	2.40	8.29	2.15	36.70	24.68	34.77	10.09	V
714.5	-15.15	2.43	8.28	2.15	36.70	25.25	34.77	9.52	V

LTE FDD Band 12_Channel Bandwidth 5MHz_16QAM

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	Correction (dB)	P_{Ag} (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
701.5	-16.04	2.38	8.23	2.15	36.70	24.36	34.77	10.41	V
707.5	-14.99	2.40	8.29	2.15	36.70	25.45	34.77	9.32	V
713.5	-15.18	2.43	8.28	2.15	36.70	25.22	34.77	9.55	V

LTE FDD Band 12_Channel Bandwidth 10MHz_16QAM

Frequency (MHz)	P_{Mea} (dBm)	P_{cl} (dB)	G_a Antenna Gain(dB)	Correction (dB)	P_{Ag} (dB)	ERP (dBm)	Limit (dBm)	Margin (dB)	Polarization
704.0	-15.14	2.38	8.23	2.15	36.70	25.26	34.77	9.51	V
707.5	-15.30	2.40	8.29	2.15	36.70	25.14	34.77	9.63	V
711.0	-15.98	2.43	8.28	2.15	36.70	24.42	34.77	10.35	V

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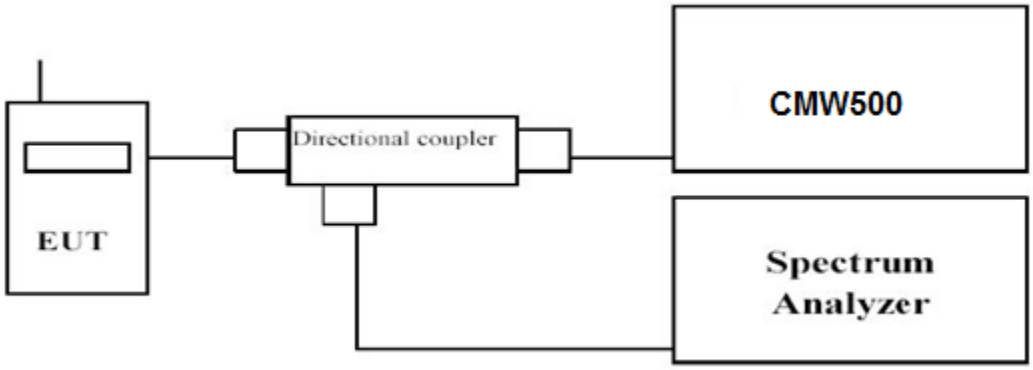
3.2. Peak-to-Average Ratio (PAR)

LIMIT

The Peak-to-Average Ratio (PAR) of the transmission may not exceed 13 dB.

TEST CONFIGURATION



TEST PROCEDURE

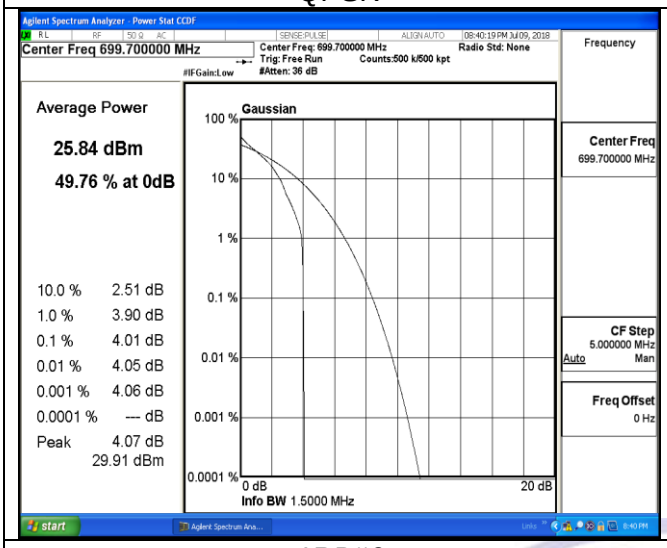
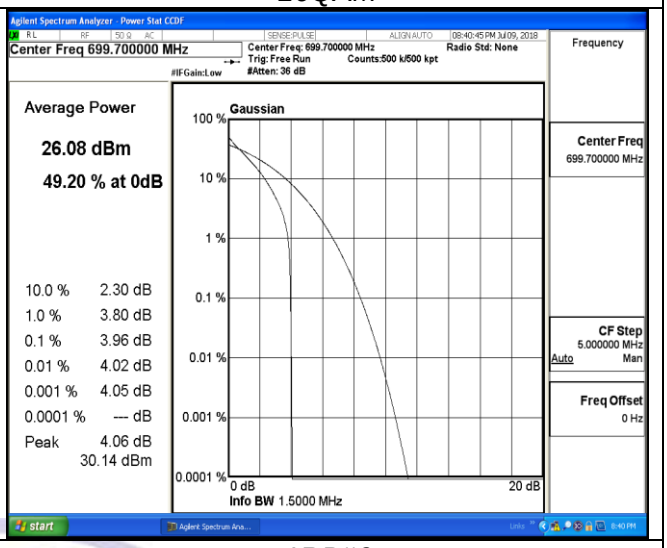
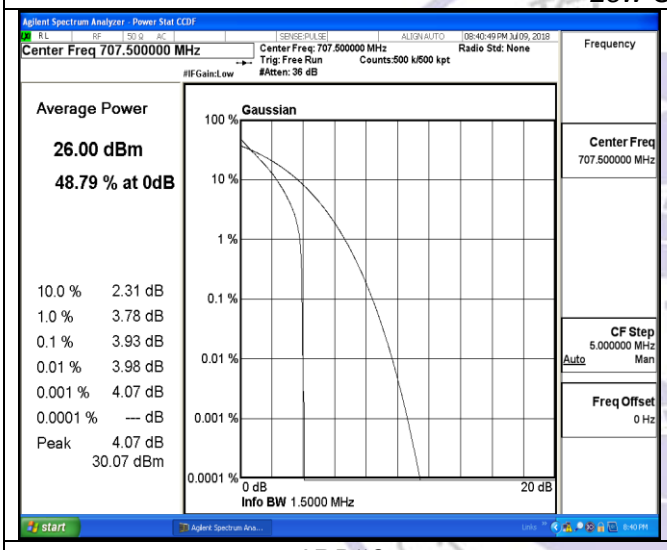
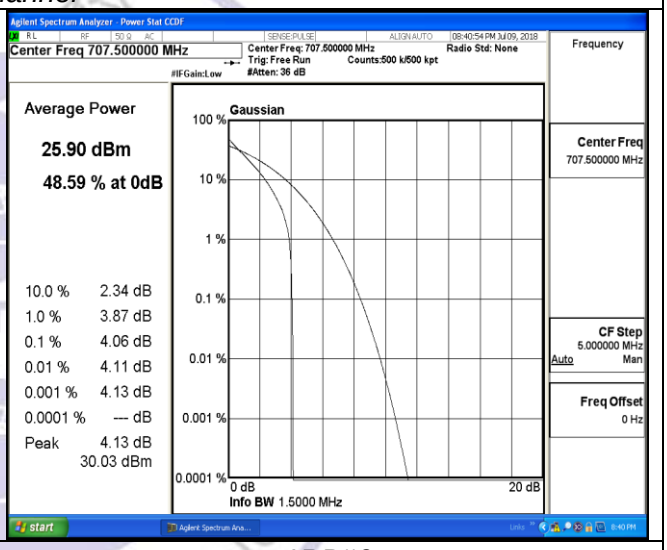
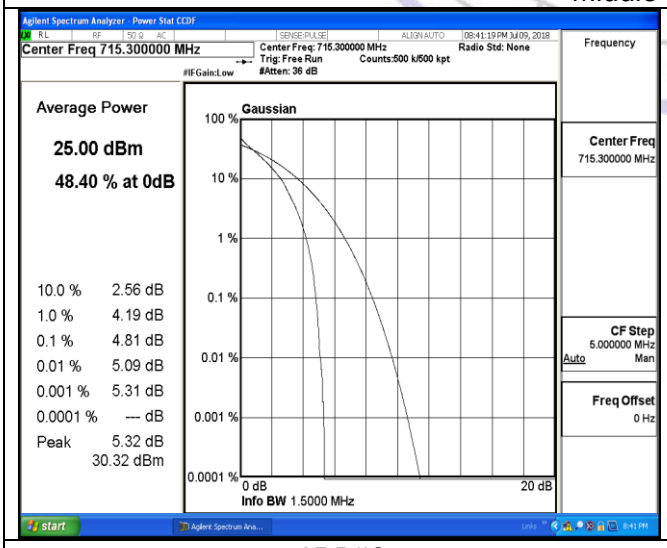
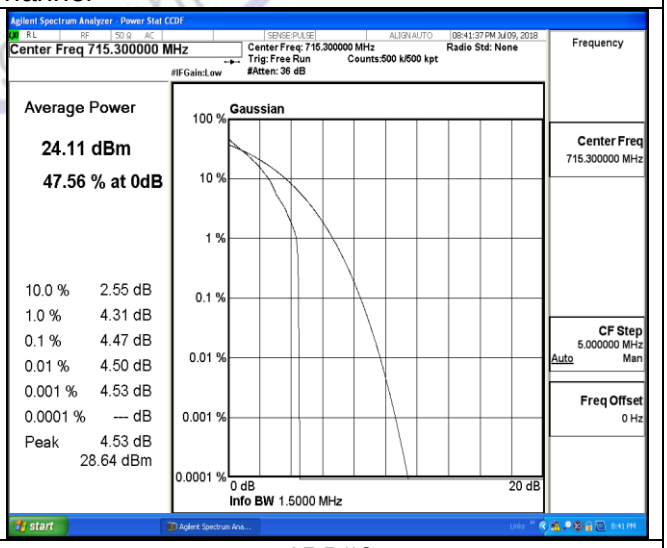
1. Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
2. Set resolution/measurement bandwidth ≥ signal's occupied bandwidth;
3. Set the number of counts to a value that stabilizes the measured CCDF curve;
4. Set the measurement interval as follows:
   1). for continuous transmissions, set to 1 ms,
   2). for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
5. Record the maximum PAPR level associated with a probability of 0.1%.

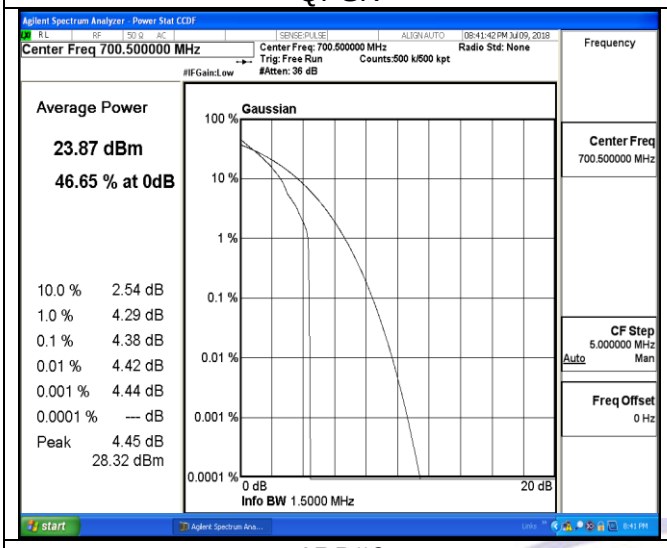
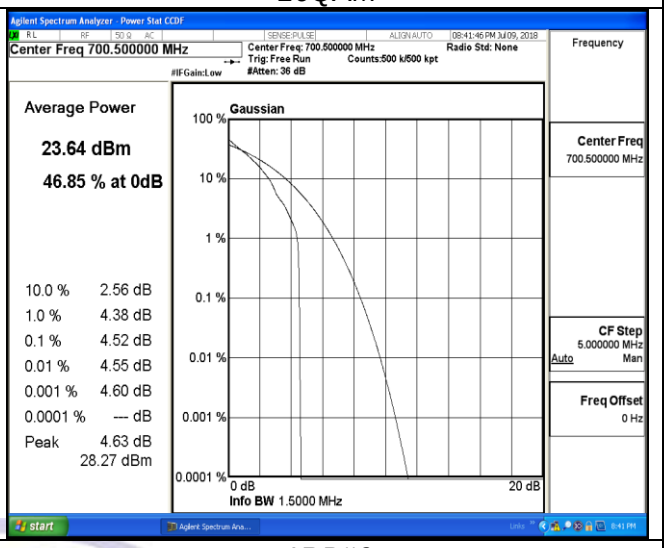
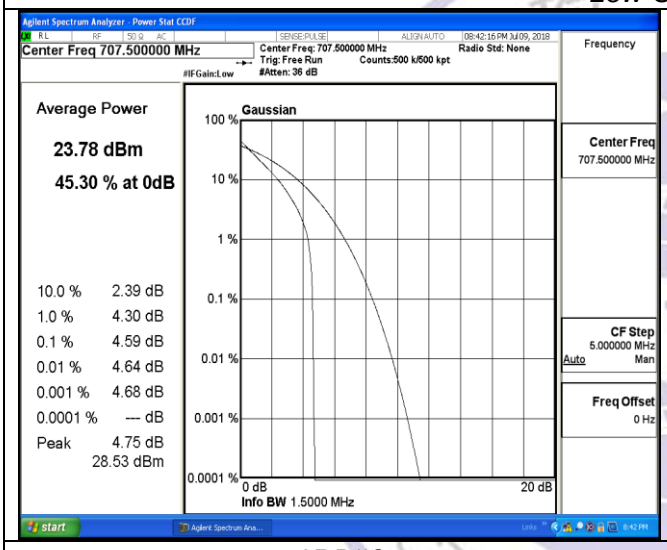
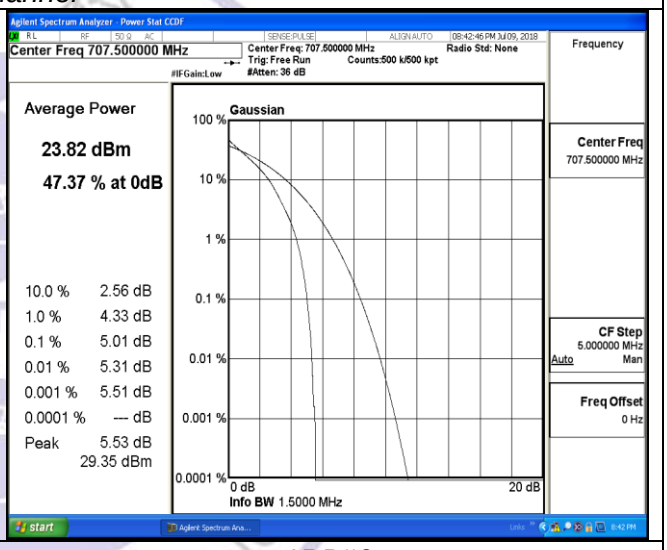
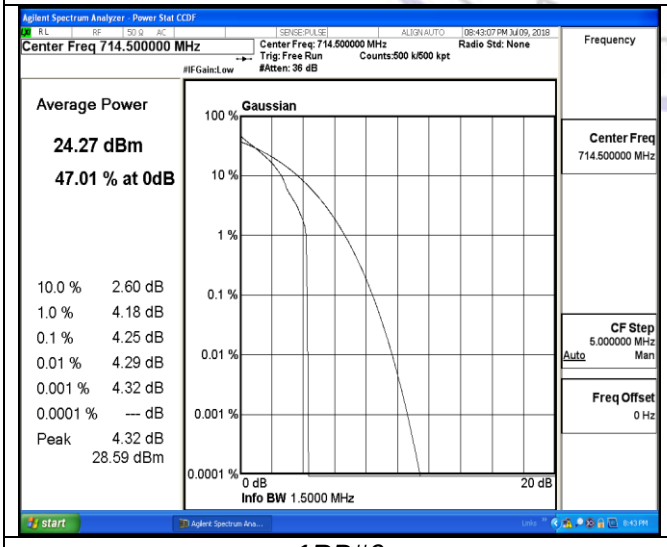
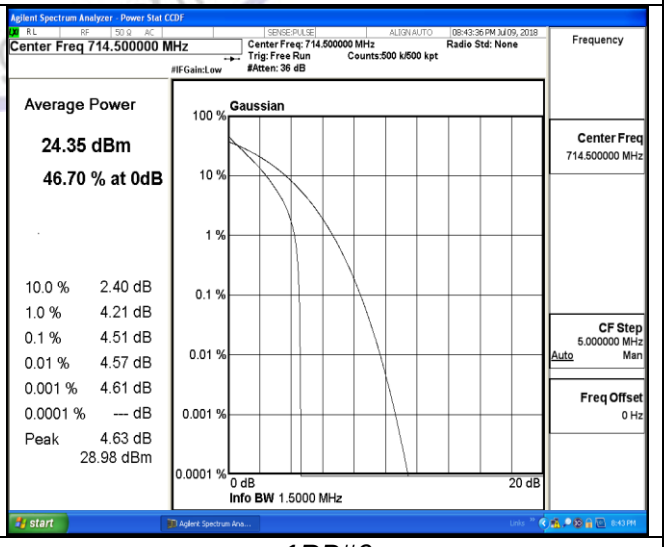
TEST RESULTS

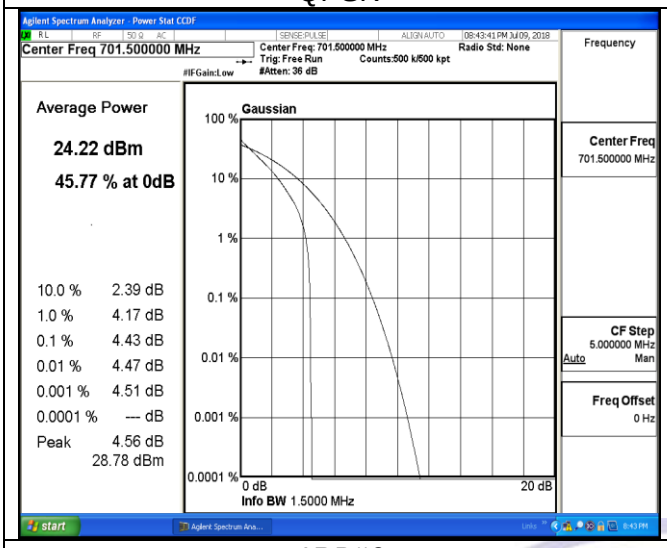
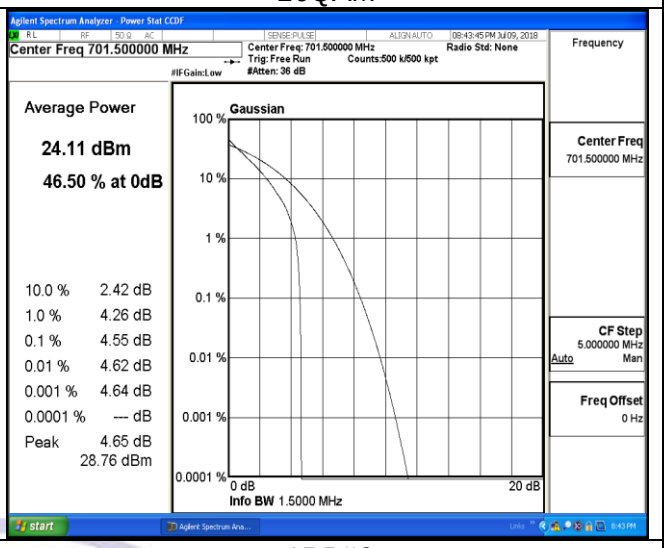
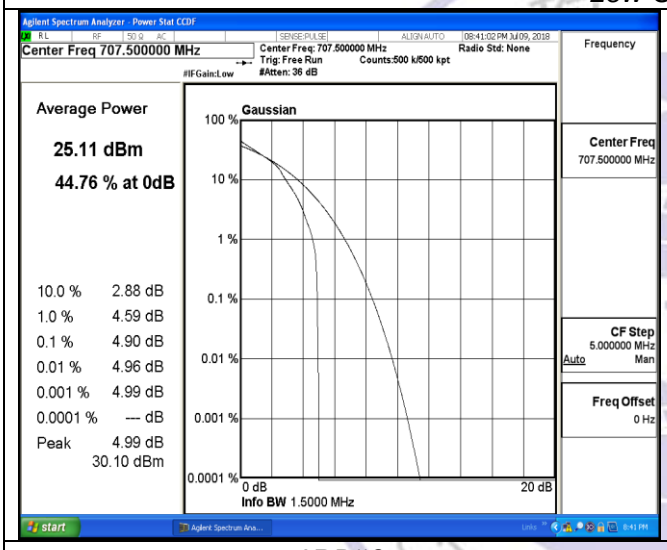
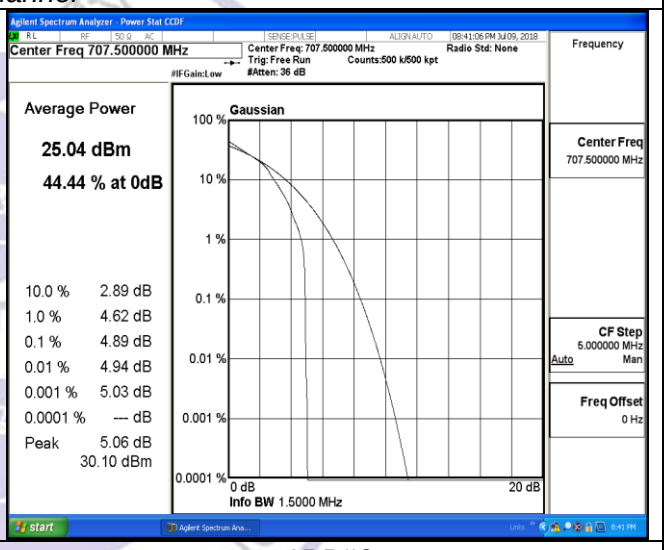
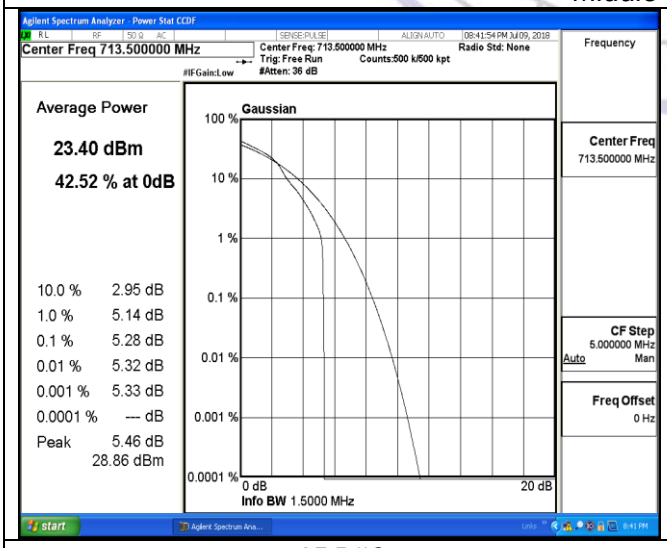
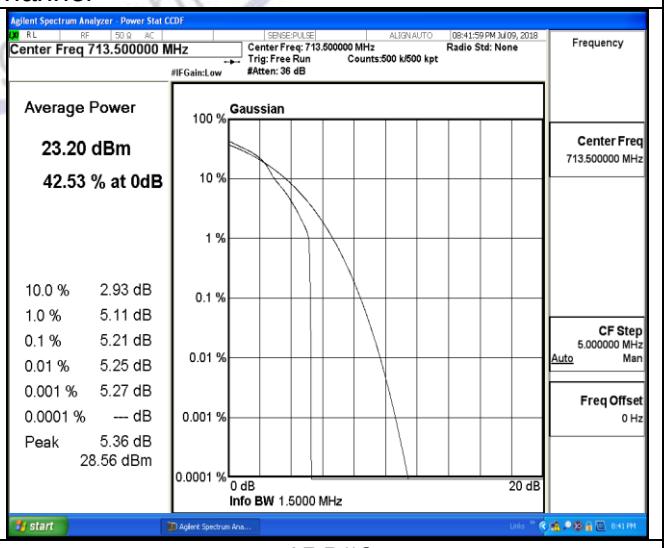
Remark:

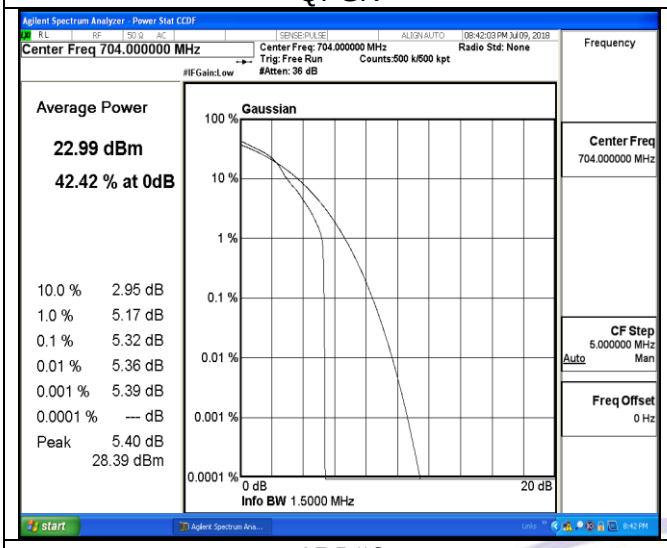
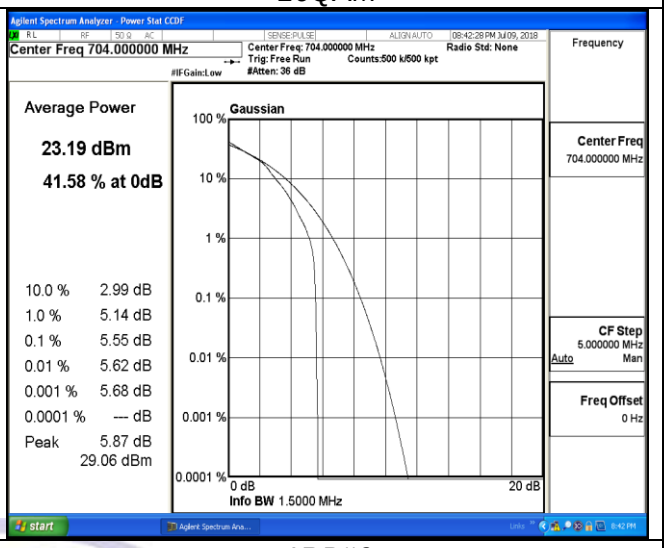
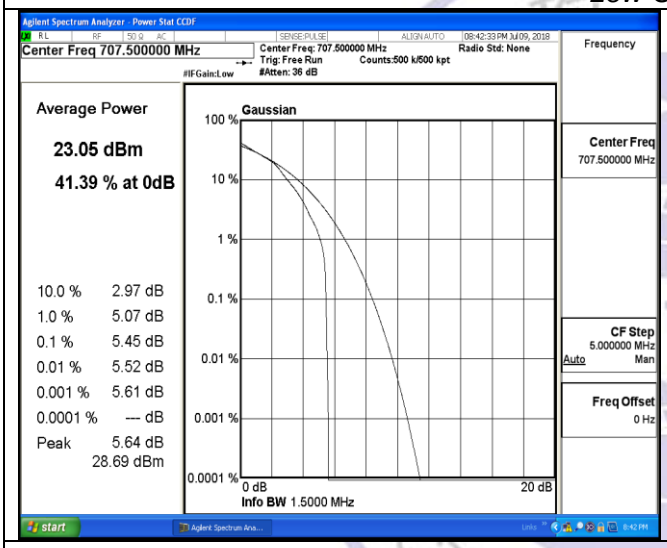
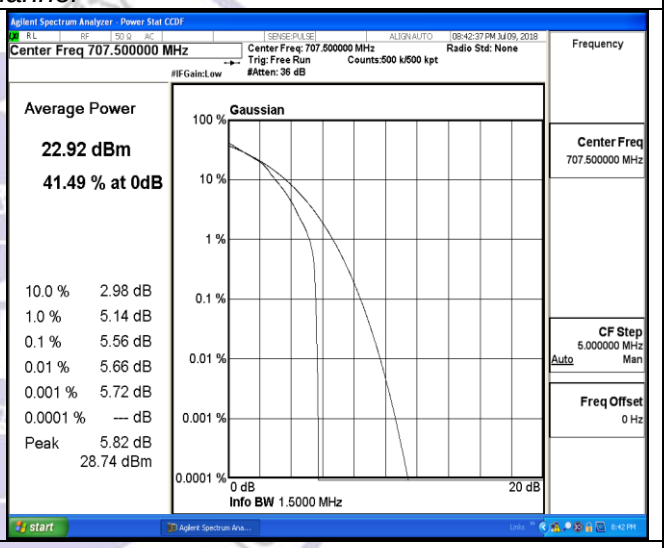
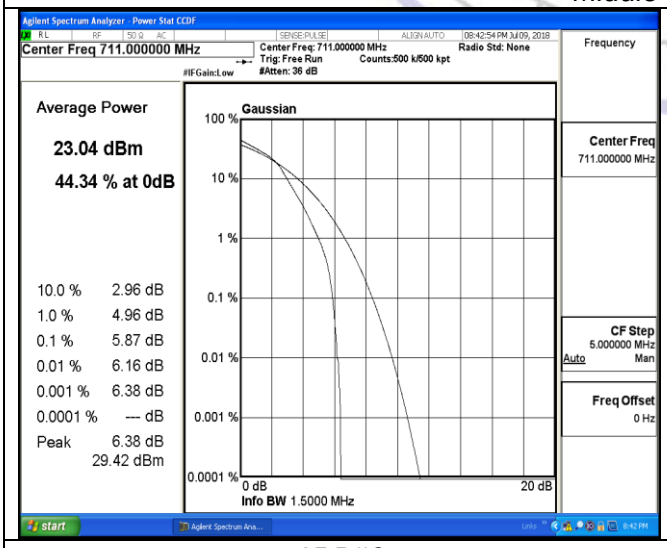
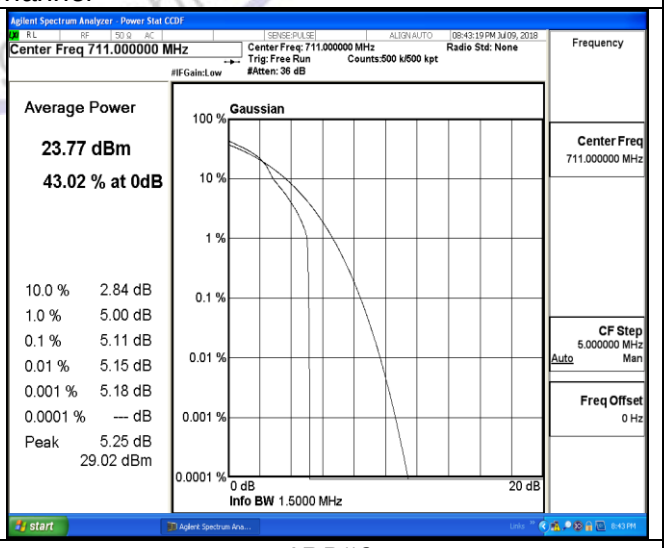
1. *We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 12; recorded worst case for each Channel Bandwidth of LTE FDD Band 12.*

LTE FDD Band 12				
TX Channel Bandwidth	Frequency (MHz)	RB Size/Offset	PAPR (dB)	
			QPSK	16QAM
1.4 MHz	699.7	*1RB#0*	4.01	3.96
	707.5		3.78	3.87
	715.3		4.81	4.47
3 MHz	700.5	*1RB#0*	4.38	4.38
	707.5		4.59	5.01
	714.5		4.25	4.51
5 MHz	701.5	*1RB#0*	4.43	4.55
	707.5		4.90	4.89
	713.5		5.28	5.21
10 MHz	704.0	*1RB#0*	5.32	5.55
	707.5		5.45	5.56
	711.0		5.87	5.11

LTE FDD Band 12-1.4MHz Channel Bandwidth PAPR	
QPSK	16QAM
	
1RB#0	1RB#0
Low Channel	
	
1RB#0	1RB#0
Middle Channel	
	
1RB#0	1RB#0
High Channel	

LTE FDD Band 12-3MHz Channel Bandwidth PAPR	
QPSK	16QAM
	
1RB#0	1RB#0
Low Channel	
	
1RB#0	1RB#0
Middle Channel	
	
1RB#0	1RB#0
High Channel	

LTE FDD Band 12-5MHz Channel Bandwidth PAPR	
QPSK	16QAM
	
1RB#0	1RB#0
Low Channel	
	
1RB#0	1RB#0
Middle Channel	
	
1RB#0	1RB#0
High Channel	

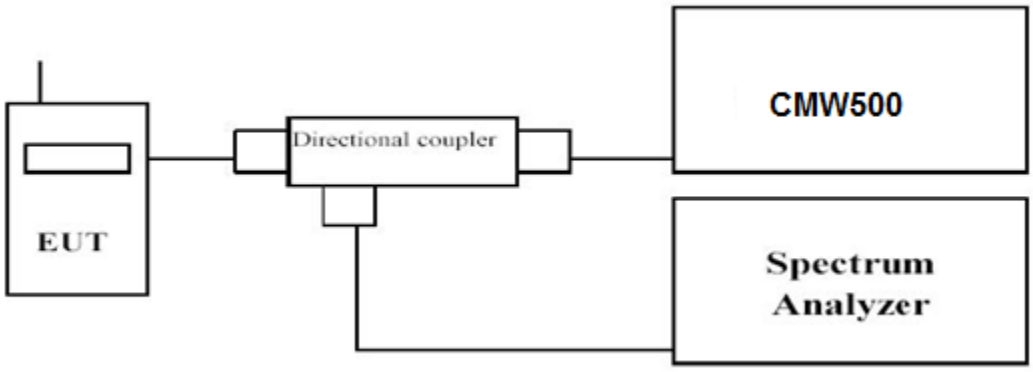
LTE FDD Band 12-10MHz Channel Bandwidth PAPR	
QPSK	16QAM
	
1RB#0	1RB#0
Low Channel	
	
1RB#0	1RB#0
Middle Channel	
	
1RB#0	1RB#0
High Channel	

3.3. Occupied Bandwidth and Emission Bandwidth

LIMIT

N/A

TEST CONFIGURATION



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. The occupied bandwidth was measured with the spectrum analyzer at low, middle and high channel in each band. The -26dBc Emission bandwidth was also measured and recorded.
Set RBW was set to about 1% of emission BW, VBW≥3 times RBW.
-26dBc display line was placed on the screen (or 99% bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace.

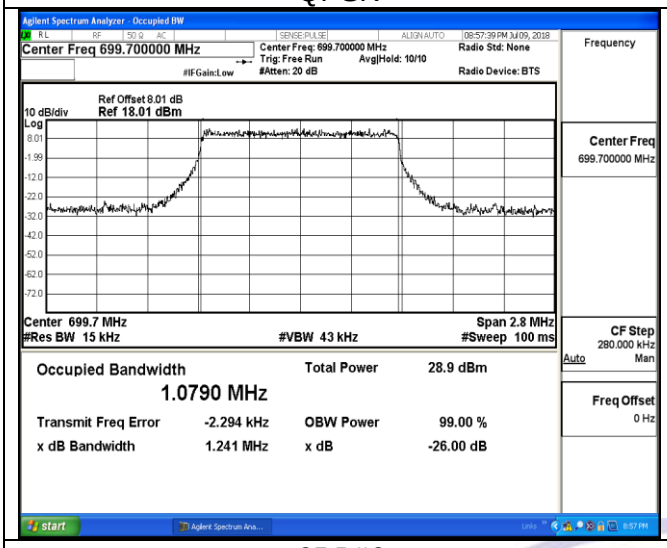
TEST RESULTS

Remark:
1. *We were tested all RB Configuration refer 3GPP TS136 521 for each Channel Bandwidth of LTE FDD Band 12; recorded worst case for each Channel Bandwidth of LTE FDD Band 12.*

LTE FDD Band 12						
TX Channel Bandwidth	RB Size/Offset	Frequency (MHz)	-26dBc Emission bandwidth (MHz)		99% Occupied bandwidth (MHz)	
			QPSK	16QAM	QPSK	16QAM
1.4 MHz	*6RB#0*	699.7	1.241	1.232	1.0790	1.0746
		707.5	1.232	1.254	1.0781	1.0801
		715.3	1.236	1.236	1.0787	1.0772
3 MHz	*15RB#0*	700.5	2.898	2.892	2.6853	2.6860
		707.5	2.900	2.909	2.6847	2.6875
		714.5	2.899	2.908	2.6843	2.6872
5 MHz	*25RB#0*	701.5	4.087	4.831	4.4778	4.4784
		707.5	4.789	4.814	4.4746	4.4741
		713.5	4.821	4.814	4.4837	4.4790
10 MHz	*50RB#0*	704.0	9.478	9.494	8.9393	8.9440
		707.5	9.408	9.461	8.9001	8.9330
		711.0	9.399	9.386	8.9346	8.9238

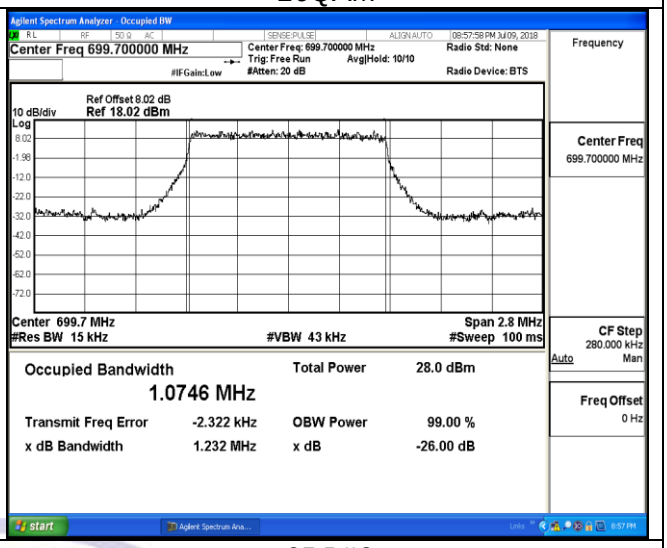
LTE FDD Band 12-1.4MHz Channel Bandwidth

QPSK



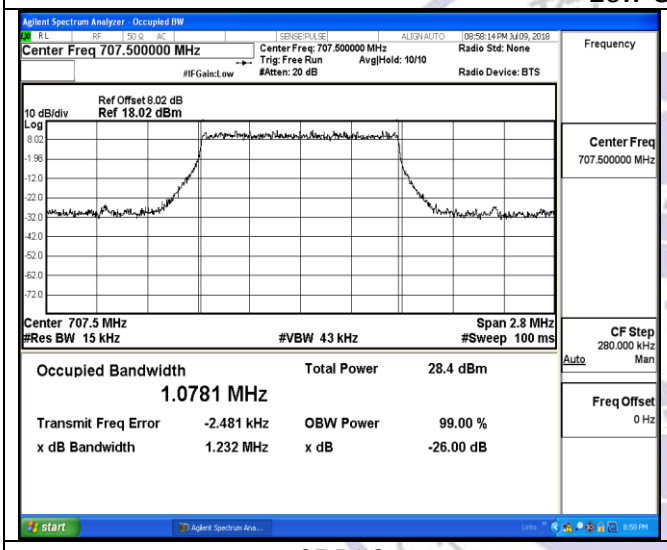
6RB#0

16QAM

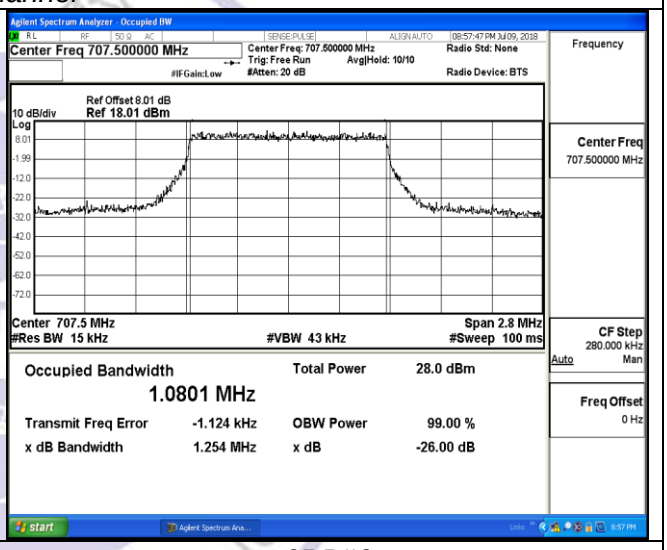


6RB#0

Low Channel

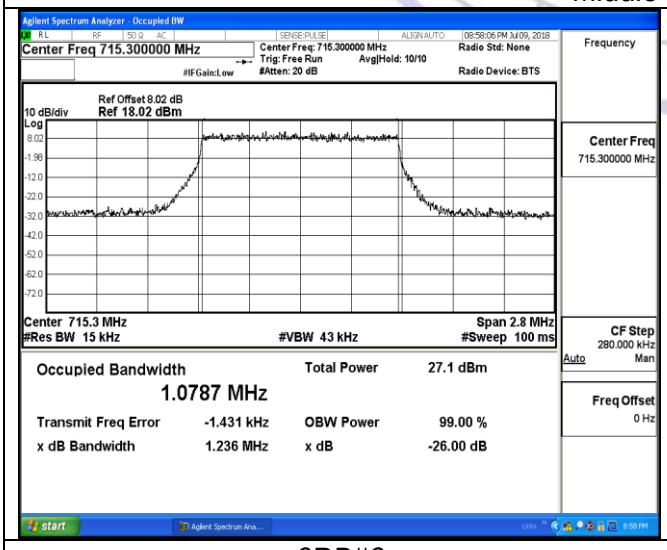


6RB#0

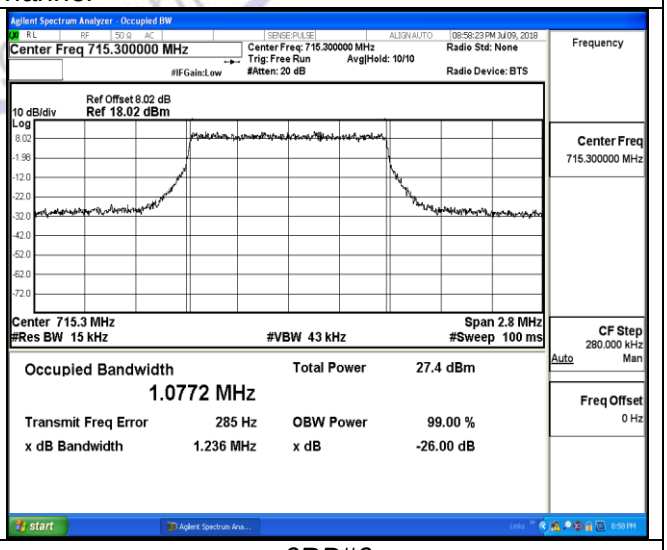


6RB#0

Middle Channel



6RB#0

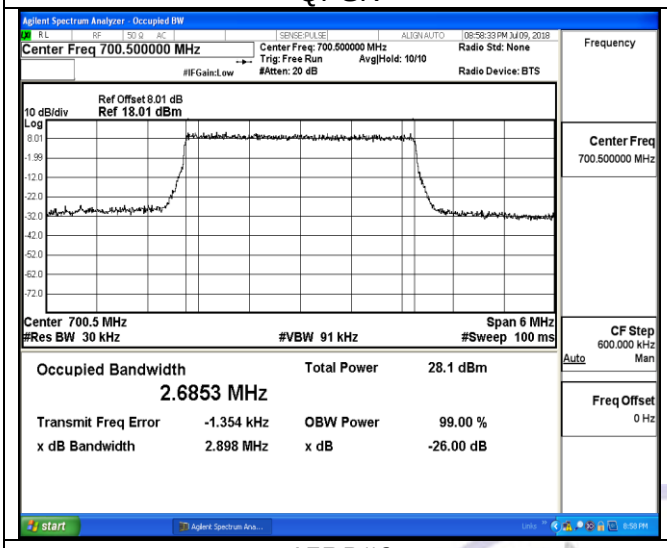


6RB#0

High Channel

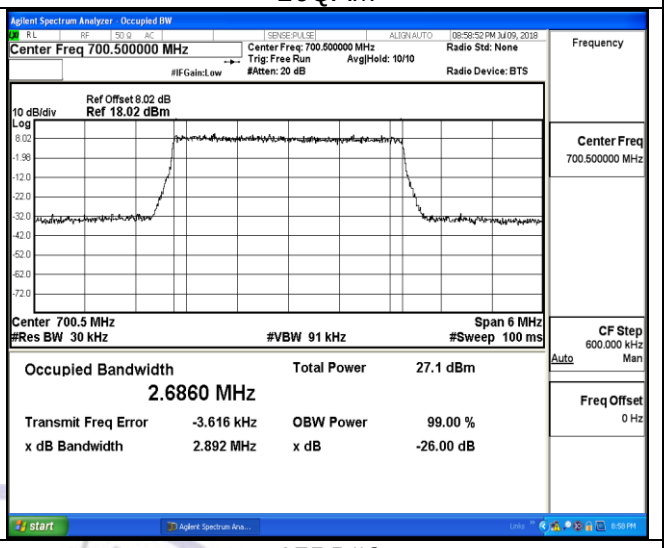
LTE FDD Band 12-3MHz Channel Bandwidth

QPSK



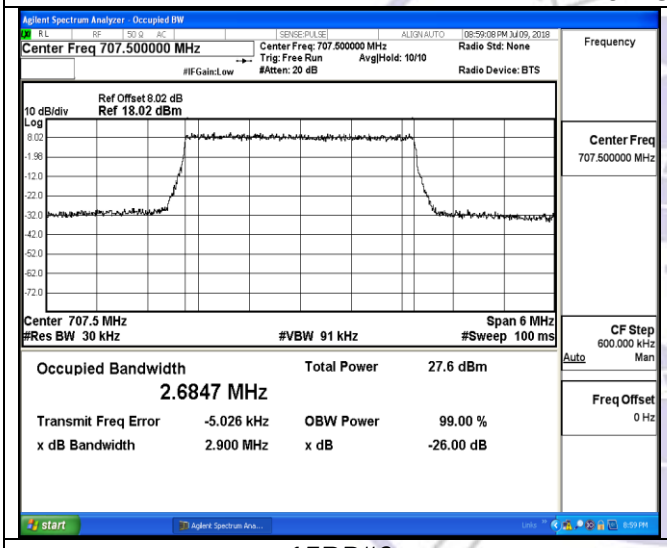
15RB#0

16QAM

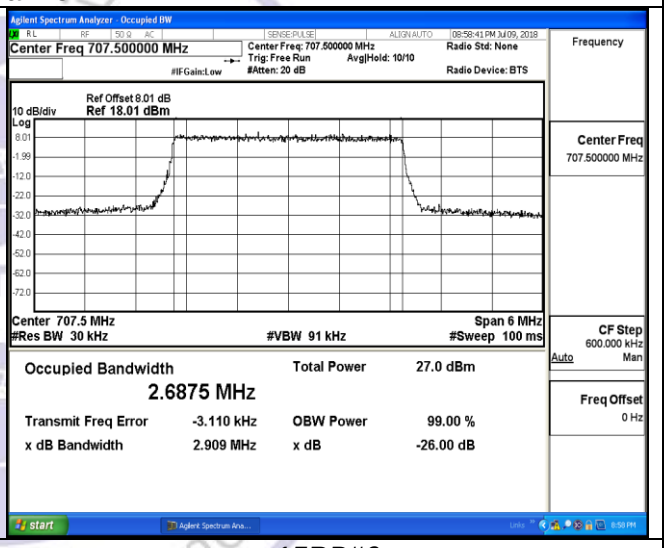


15RB#0

Low Channel

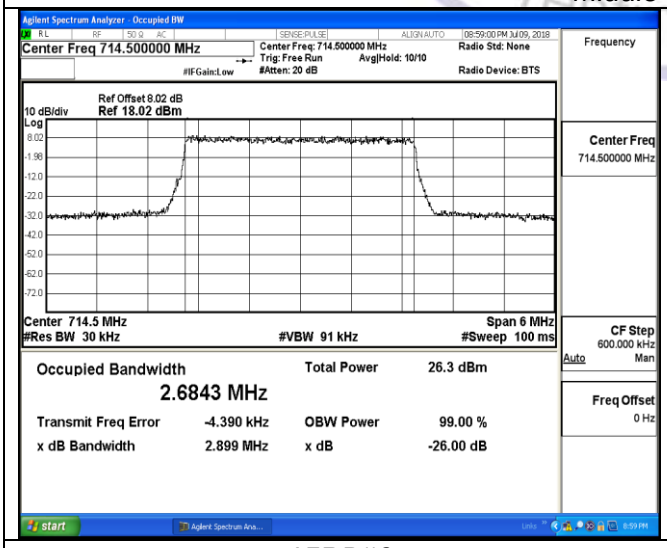


15RB#0

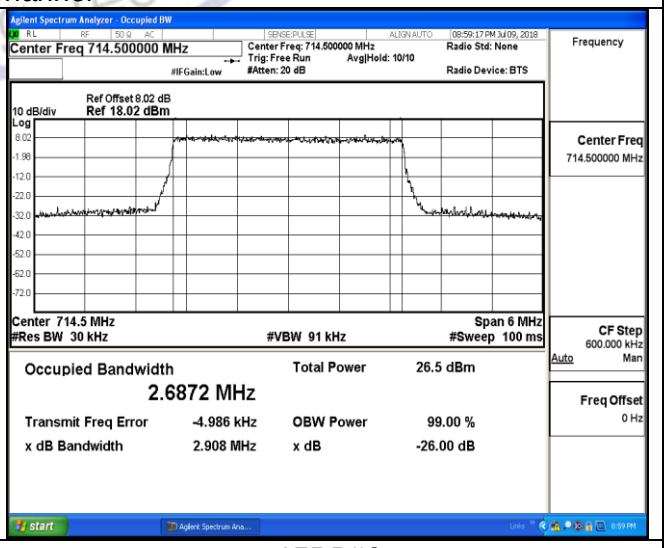


15RB#0

Middle Channel

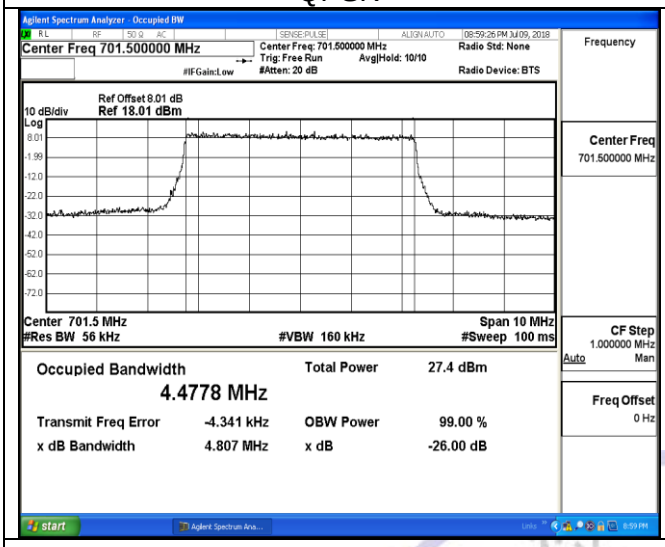
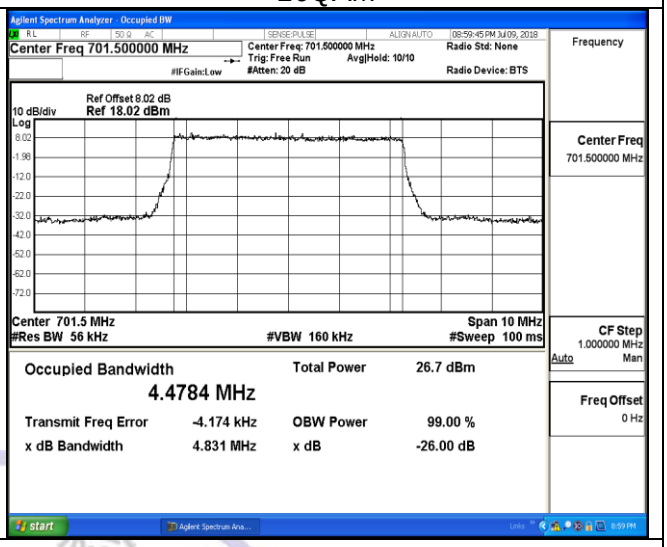
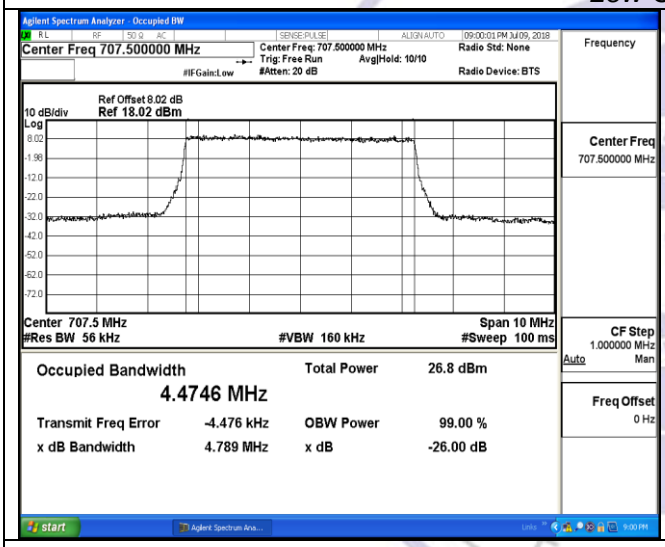
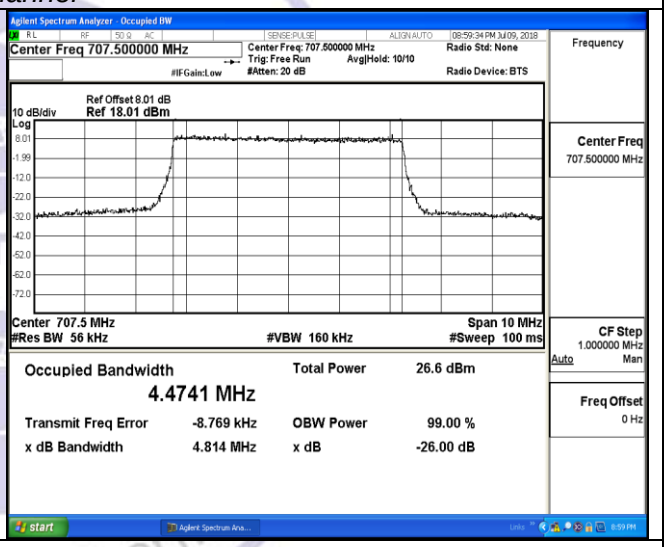
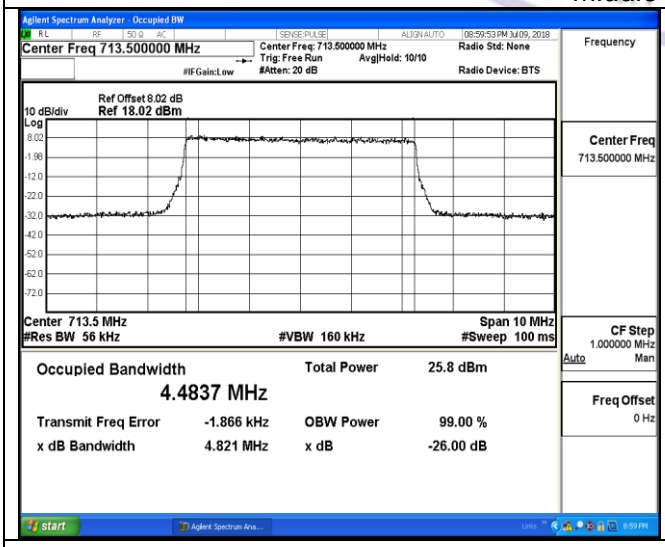
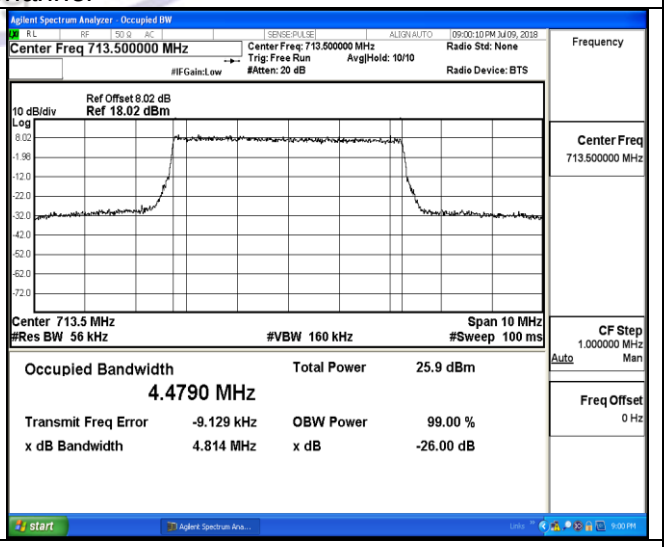


15RB#0



15RB#0

High Channel

LTE FDD Band 12-5MHz Channel Bandwidth	
QPSK	16QAM
	
25RB#0	25RB#0
Low Channel	
	
25RB#0	25RB#0
Middle Channel	
	
25RB#0	25RB#0
High Channel	