# RADIO TEST REPORT

Report No: 1707091W02

Issued for

Sun Cupid Technology (HK) Ltd.

16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan, Kowloon, Hong Kong

Product Name:	Tablet PC
Brand Name:	NUU
Model Name:	T2
Series Model:	N/A
FCC ID:	2ADINNUUT2
Test Standard:	FCC Part 15.247

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## **TEST RESULT CERTIFICATION**

Applicant's name	Sun Cupid Technology (HK) Ltd.
Address:	16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan, Kowloon, Hong Kong
Manufacture's Name:	Sun Cupid Technology (HK) Ltd.
Address:	16/F, CEO Tower, 77 Wing Hong St, Cheung Sha Wan, Kowloon, Hong Kong
Product description	
Product name:	Tablet PC
Model and/or type reference .:	T2
Series Model:	N/A
Standards:	FCC Part15.247
Test procedure	. ANSI C63.10-2013
test (EUT) is in compliance with identified in the report.	s been tested by BZT, the test results show that the equipment under the FCC requirements. And it is applicable only to the tested sample sed except in full, without the written approval of BZT, this document
may be altered or revised by BZ	T, personal only, and shall be noted in the revision of the document
Date of Test	<u>:</u>
Date (s) of performance of tests.	
Date of Issue	
Test Result	Pass
Testing Engine	eer: Sean She
	(Sean she)
Technical Man	nager: halim. hou
	(Hakim.hou)
Authorized Sig	gnatory: Whati
	(Vita Li)

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8.2 EUT ANTENNA

**APPENDIX - PHOTOS OF TEST SETUP** 

## **Revision History**

Rev. Issue Date		Report NO.	Effect Page	Contents
00 26 June. 2017		1707091W02	ALL	Initial Issue

## 1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 DTS Meas Guidance v04

FCC Part 15.247,Subpart C				
Standard Section	Test Item	Judgment	Remark	
15.207	Conducted Emission	PASS		
15.247 (a)(2)	6dB Bandwidth	PASS		
15.247 (b)(3)	15.247 (b)(3) Output Power			
15.247 (c)	Radiated Spurious Emission	PASS		
15.247 (d)	Conducted Spurious & Band Edge Emission	PASS		
15.247 (e) Power Spectral Density		PASS		
15.205	15.205 Restricted Band Edge Emission			
Part 15.247(d)/part 15.209(a) Band Edge Emission 15.203 Antenna Requirement		PASS		
		PASS		

## NOTE:

- (1)" N/A" denotes test is not applicable in this Test Report
- (2) all tests are according to ANSI C63.10-2013.

## Report No.: 1707091W02

#### 1.1 TEST FACTORY

BZT Testing Technology Co., Ltd.

Add.: Buliding 17, Xinghua Road Xingwei industrial Park Fuyong,

Baoan District, Shenzhen, Guangdong, China

FCC Registration No.: 701733

### 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y  $\pm$  U  $\cdot$  where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2  $\cdot$  providing a level of confidence of approximately 95 %  $^{\circ}$ 

No.	Item	Uncertainty
1	Conducted Emission (9KHz-150KHz)	±2.88dB
2	Conducted Emission (150KHz-30MHz)	±2.67dB
3	RF power,conducted	±0.71dB
4	Spurious emissions,conducted	±0.63dB
5	All emissions,radiated(<30M) (9KHz-30MHz)	±3.02dB
6	All emissions,radiated(<1G) 30MHz-200MHz	±3.80dB
7	All emissions,radiated(<1G) 200MHz-1000MHz	±3.97dB
8	All emissions,radiated(>1G)	±3.03dB

## 2. GENERAL INFORMATION

## 2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet PC			
Trade Name	NUU			
Model Name	T2			
Series Model	N/A	N/A		
Model Difference	N/A	N/A		
	The EUT is a Tablet Operation Frequency:	PC 802.11b/g/n 20: 2412~2462 MHz 802.11n(40MHz):2422~2452MHz		
	Modulation Type:	CCK/BPSK/QPSK/16QAM		
Product Description	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6 Mbps 802.11n(20MHz): 65/58.5/52/39/26/19.5/13/6.5 Mbps 802.11n(40MHz): 135/121.5/108/81/54/40.5/37/13.5 Mbps		
	Number Of Channel:	802.11b/g/n20: 11CH 802.11n 40: 7CH		
	Antenna Designation:  Please see Note 3.			
	Antenna Gain(dBi): 0.5dBi			
	Duty Cycle:	>98%		
Adapter	Input: AC 100-240V, Output: DC 5V, 150	·		
	Rated Voltage: 3.7V			
Battery	Charge Limit: 4.2V			
	Capacity: 2500mAh			
Channel List	Please refer to the Note 2.			
Power rating	DC 5V, 1500mA			
Hardware version number	RC-K706			
Software version number	K706A.M.V10.8.WH-V01.2089			
Connecting I/O Port(s)	Please refer to the User's Manual			

### Note:

1 For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

	Operation Frequency of channel				
80	2.11b/g/n(20MHz)	Channe	el List for 802.11n(40MHz)		
Channel	Frequency	Channel	Frequency		
01	2412	03	2422		
02	2417	04	2427		
03	2422	05	2432		
04	2427	06	2437		
05	2432	07	2442		
06	2437	08	2447		
07	2442	09	2452		
08	2447				
09	2452				
10	2457				
11	2462				

## 3 Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Carrier Frequency Channel

## 2.4GHz Test Frequency:

2.4012 Test Frequency.					
For 802.11b/g/n (HT20)		For 802.11n (HT40)			
Channel Freq.(MHz)		Channel Freq.(MHz			
01	2412	03	2422		
06	2437	06	2437		
11 2462		09	2452		

3

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	NUU	T2	PIFA Antenna	N/A	0.5	WIFI Antenna

#### 2.2 DESCRIPTION OF TEST MODES

Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Worst Mode	Description	Data Rate
Mode 1	TX IEEE 802.11b CH1	1 Mbps
Mode 2	TX IEEE 802.11b CH6	1 Mbps
Mode 3	TX IEEE 802.11 b CH11	1 Mbps
Mode 4	TX IEEE 802.11g CH1	6 Mbps
Mode 5	TX IEEE 802.11g CH6	6 Mbps
Mode 6	TX IEEE 802.11g CH11	6 Mbps
Mode 7	TX IEEE 802.11n HT20 CH1	MCS 0
Mode 8	TX IEEE 802.11n HT20 CH6	MCS 0
Mode 9	TX IEEE 802.11n HT20 CH11	MCS 0
Mode 10	TX IEEE 802.11n HT40 CH3	MCS 0
Mode 11	TX IEEE 802.11n HT40 CH6	MCS 0
Mode 12	TX IEEE 802.11n HT40 CH9	MCS 0

### Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (2) We have be tested for all avaiable U.S. voltage and frequencies(For 120V,50/60Hz and 240V, 50/60Hz) for which the device is capable of operation.
- (3) The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

## **AC Conducted Emission**

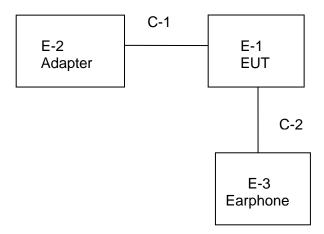
	Test Case
AC Conducted	Model 13: Keeping WIELTY
Emission	Mode13: Keeping WIFI TX

## 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

## **Radiation Test Set**



## conduction Test Set



### 2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Serial No.	Note
E-1	Tablet PC	NUU	T2	N/A	EUT
E-2	Adapter	N/A	N/A	N/A	EUT
E-3	Earphone	N/A	N/A	N/A	EUT

Item	Shielded Type	Ferrite Core	Length	Note
C-1	USB Cable shielded line (Charging )	NO	100cm	N/A
C-2	Earphone Line	NO	110cm	N/A

#### Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in Length column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".

## 2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Radiation Test equipment						
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	
EMI Test Receiver	R&S	ESW	101535	2017.06.01	2018.05.31	
Bilog Antenna	TESEQ	CBL6111D	34678	2017.03.24	2018.03.23	
Horn Antenna	Schwarzbeck	BBHA 9120D (1201)	9120D-1343	2017.03.06	2018.03.05	
SHF-EHF Horn Antenna (15G-40GHz)	BBHA 9170	SCHWARZBECK	BBHA9170367	2017.05.02	2018.05.01	
Temperature & Humitidy	HH660	Mieo	N/A	2016.10.25	2017.10.24	
Temperature & Humitidy	HH660	Mieo	N/A	2016.10.25	2017.10.24	
Pre-mplifier (0.1M-3GHz)	EM	EM330	60538	2017.03.12	2018.03.11	
PreAmplifier (1G-26.5GHz)	Agilent	8449B	60538	2016.10.23	2017.10.22	
Pre-mplifier (18G-40G)	MINI-CIRCUITS	AP-040G	1382501	2017.05.15	2018.05.14	
Operational Manual Passive Loop (9K30MHz)	ETS	6512	00165355	2017.03.06	2018.03.05	
Low frequency cable	EM	R01	N/A	2017.03.12	2018.03.11	
Low frequency cable	EM	R06	N/A	2017.03.12	2018.03.11	
High frequency cable	SCHWARZBECK	R04	N/A	2017.03.12	2018.03.11	
High frequency cable	SCHWARZBECK	R02	N/A	2017.03/12	2018.03.11	
Semi-anechoic chamber	Changling	966	N/A	2016.10.23	2017.10.22	
trun table	EM	SC100_1	60531	N/A	N/A	
Antnna mast	EM	SC100	N/A	N/A	N/A	
Max-full Antenna Corp	MF	MFA-440H	N/A	N/A	N/A	

## Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2016.10.23	2017.10.22
LISN	R&S	ENV216	101242	2016.10.26	2017.10.25
conduction Cable	EM	C01	N/A	2017.03.12	2018.03.11
Temperature & Humitidy	Mieo	HH660	N/A	2016.10.23	2017.10.22

## **RF Connected Test**

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2016.10.23	2017.10.22
Spectrum Analyzer	Agilent	E4407B	MY50140340	2017.03.11	2018.03.10
Signal Analyzer	Agilent	N9020A	MY49100060	2017.03.11	2018.03.10
Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2016.10.23	2017.10.22
Spectrum Analyzer	Agilent	E4407B	MY50140340	2017.03.11	2018.03.10
Signal Analyzer	Agilent	N9020A	MY49100060	2016.10.23	2017.10.22

## 3. EMC EMISSION TEST

### 3.1 CONDUCTED EMISSION MEASUREMENT

### 3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

operating frequency band. In case the emission fall within the restricted band specified on Part 15. 207(a) limit in the table below has to be followed.

	Conducted Emission limit (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	
0.15 -0.5	66 - 56 *	56 - 46 *	
0.50 -5.0	56.00	46.00	
5.0 -30.0	60.00	50.00	

### Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

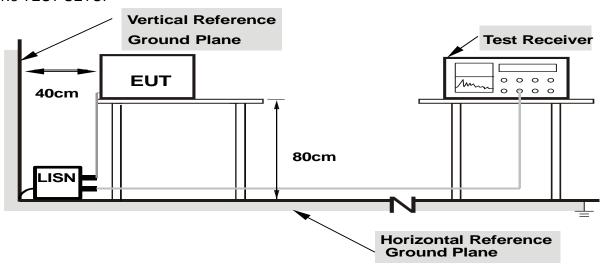
The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

#### 3.1.2 TEST PROCEDURE

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

### 3.1.3 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

#### 3.1.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

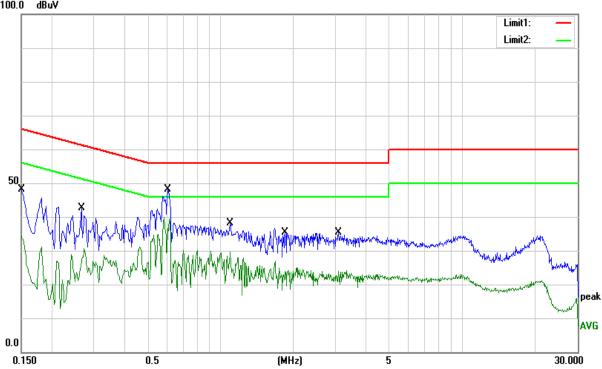
## 3.1.5 TEST RESULT

Temperature:	<b>25.4</b> ℃	Relative Humidity:	61%
Pressure:	1010hPa	Phase:	L
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 13

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1500	38.46	9.75	48.21	66.00	-17.79	QP
0.1500	21.46	9.75	31.21	56.00	-24.79	AVG
0.2660	32.50	10.13	42.63	61.24	-18.61	QP
0.2660	18.09	10.13	28.22	51.24	-23.02	AVG
0.6060	38.10	9.92	48.02	56.00	-7.98	QP
0.6060	28.25	9.92	38.17	46.00	-7.83	AVG
1.0940	28.20	9.81	38.01	56.00	-17.99	QP
1.0940	13.84	9.81	23.65	46.00	-22.35	AVG
1.8580	25.52	9.86	35.38	56.00	-20.62	QP
1.8580	13.92	9.86	23.78	46.00	-22.22	AVG
3.0820	25.35	9.91	35.26	56.00	-20.74	QP
3.0820	13.75	9.91	23.66	46.00	-22.34	AVG

## Remark:

- 1. All readings are Quasi-Peak and Average values.
  2. Margin = Result (Result = Reading + Factor )—Limit 100.0 dBuV



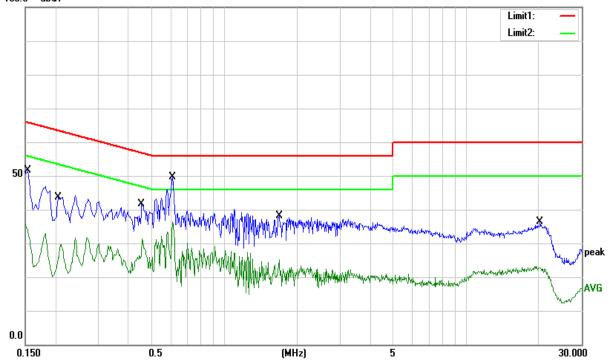
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Temperature:	25.4 ℃	Relative Humidity:	61%
Pressure:	1010hPa	Phase:	N
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 13

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1540	41.83	9.76	51.59	65.78	-14.19	QP
0.1540	19.46	9.76	29.22	55.78	-26.56	AVG
0.2060	33.81	9.89	43.70	63.37	-19.67	QP
0.2060	18.19	9.89	28.08	53.37	-25.29	AVG
0.4540	31.56	10.02	41.58	56.80	-15.22	QP
0.4540	18.60	10.02	28.62	46.80	-18.18	AVG
0.6100	39.68	9.91	49.59	56.00	-6.41	QP
0.6100	26.37	9.91	36.28	46.00	-9.72	AVG
1.6820	28.34	9.85	38.19	56.00	-17.81	QP
1.6820	11.75	9.85	21.60	46.00	-24.40	AVG
20.2100	25.81	10.46	36.27	60.00	-23.73	QP
20.2100	12.41	10.46	22.87	50.00	-27.13	AVG

## Remark:

- 1. All readings are Quasi-Peak and Average values.
  2. Margin = Result (Result = Reading + Factor )—Limit 100.0 dBuV



### 3.2 RADIATED EMISSION MEASUREMENT

#### 3.2.1 RADIATED EMISSION LIMITS

in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (0.009MHz - 1000MHz)

	211111 0 1 1 1 1 2 2 1 1 1 2 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2					
Frequen	icies	Field Strength	Measurement Distance			
(MHz	<u>z</u> )	(micorvolts/meter)	(meters)			
0.009~0	.490	2400/F(KHz)	300			
0.490~1	.705	24000/F(KHz)	30			
1.705~3	30.0	30	30			
30~8	8	100	3			
88~2′	16	150	3			
216~9	60	200	3			
Above	960	500	3			

### LIMITS OF RADIATED EMISSION MEASUREMENT (1000MHz-25GHz)

FREQUENCY (MHz)	(dBuV/m) (at 3M)		
FREQUENCT (MINZ)	PEAK	AVERAGE	
Above 1000	74	54	

#### Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

### For Radiated Emission

Spectrum Parameter	Setting	
Attenuation	Auto	
Detector	Peak	
Start Frequency	1000 MHz(Peak/AV)	
Stop Frequency	10th carrier hamonic(Peak/AV)	
RB / VB (emission in restricted	4 MLI- /2MLI-	
band)	1 MHz /3MHz	

## For Band edge

<u> </u>		
Spectrum Parameter	Setting	
Detector	Peak	
Start/Stan Eraguanay	Lower Band Edge: 2300 to 2412 MHz	
Start/Stop Frequency	Upper Band Edge: 2462 to 2500 MHz	
RB / VB (emission in restricted band)	1 MHz /3MHz	

Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~90kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	90kHz~110kHz / RB 200Hz for QP
Start ~ Stop Frequency	110kHz~490kHz / RB 200Hz for PK & AV
Start ~ Stop Frequency	490kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

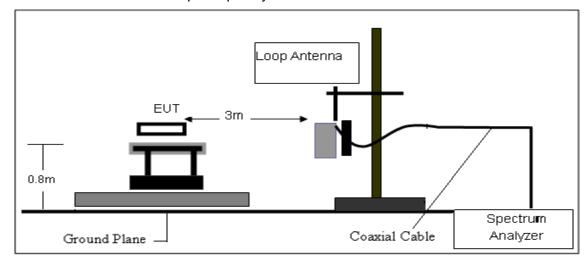
## 3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the antenna are set to make the measurement
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos. Note:

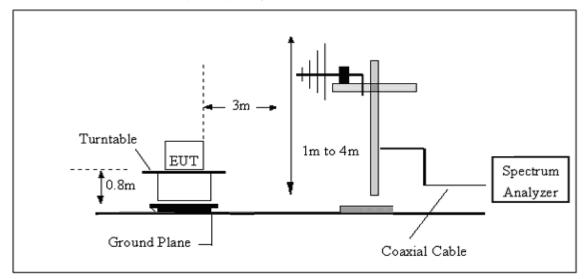
Both horizontal and vertical antenna polarities were tested and performed test to three orthogonal axis. The worst case emissions were reported

## 3.2.3 TEST SETUP

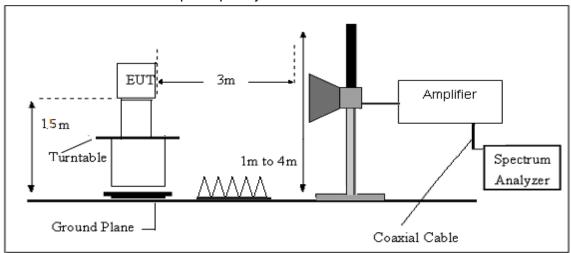
## (A) Radiated Emission Test-Up Frequency Below 30MHz



## (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



## (C) Radiated Emission Test-Up Frequency Above 1GHz



## 3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

## 3.2.5 TEST RESULT

## 9KHz-30MHz

Temperature:	26 ℃	Relative Humidtity:	60%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V From Battery
Test Mode:	TX Mode	Polarization:	

Freq.	Reading	Limit	Margin	State	Test
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F	Result
					PASS
					PASS

### Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.

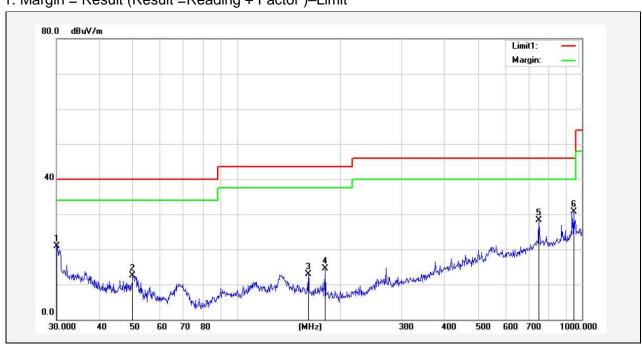
## (30MHz - 1000MHz)

Temperature:	26 ℃	Relative Humidtity:	60%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V From Battery
I LACT IVIDAA'	Mode 1/2/3/4/5/6/7/8/9/10/11/12 (Mode 3-1M worst mode)	Polarization:	Horizontal

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
30.1054	32.16	-11.24	20.92	40.00	-19.08	QP
49.8814	33.86	-21.42	12.44	40.00	-27.56	QP
160.9090	31.45	-18.57	12.88	43.50	-30.62	QP
180.0165	33.93	-19.44	14.49	43.50	-29.01	QP
750.1083	31.80	-3.56	28.24	46.00	-17.76	QP
945.4400	31.15	-0.54	30.61	46.00	-15.39	QP

## Remark:

1. Margin = Result (Result = Reading + Factor )—Limit

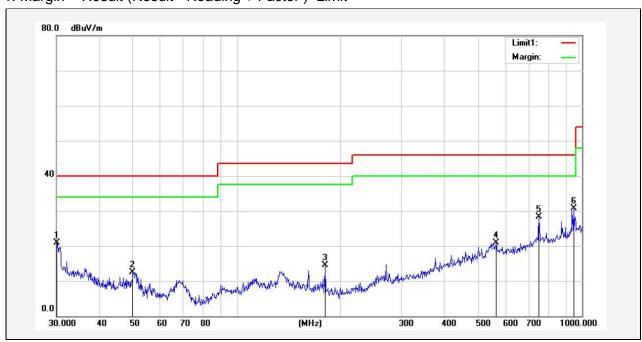


Temperature:	<b>26</b> ℃	Relative Humidtity:	60%
Pressure:	1010 hPa	Test Voltage:	DC 3.7V From Battery
LIDST IVIDAD.	Mode 1/2/3/4/5/6/7/8/9/10/11/12 (Mode 3-1M worst mode)	Polarization:	Vertical

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
30.1053	32.16	-11.24	20.92	40.00	-19.08	QP
49.8813	33.86	-21.42	12.44	40.00	-27.56	QP
180.0165	33.93	-19.44	14.49	43.50	-29.01	QP
564.6390	27.49	-6.59	20.90	46.00	-25.10	QP
750.1082	31.80	-3.56	28.24	46.00	-17.76	QP
945.4398	31.15	-0.54	30.61	46.00	-15.39	QP

## Remark:.

1. Margin = Result (Result = Reading + Factor )—Limit



## (1000MHz-25GHz) Restricted band and Spurious emission Requirements

## 802.11b Low Channel

				Antenna	Corrected	Emission					
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector		
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment	
	Low Channel (2412 MHz)										
3264.75	48.21	44.70	6.70	28.20	-9.80	38.41	74.00	-35.59	PK	Vertical	
3264.75	39.73	44.70	6.70	28.20	-9.80	29.93	54.00	-24.07	AV	Vertical	
3264.74	48.71	44.70	6.70	28.20	-9.80	38.91	74.00	-35.09	PK	Horizontal	
3264.74	39.10	44.70	6.70	28.20	-9.80	29.30	54.00	-24.70	AV	Horizontal	
4824.57	59.56	44.20	9.04	31.60	-3.56	56.00	74.00	-18.00	PK	Vertical	
4824.57	39.13	44.20	9.04	31.60	-3.56	35.57	54.00	-18.43	AV	Vertical	
4824.38	59.09	44.20	9.04	31.60	-3.56	55.53	74.00	-18.47	PK	Horizontal	
4824.38	39.04	44.20	9.04	31.60	-3.56	35.48	54.00	-18.52	AV	Horizontal	
5359.62	45.44	44.20	9.86	32.00	-2.34	43.10	74.00	-30.90	PK	Vertical	
5359.62	37.97	44.20	9.86	32.00	-2.34	35.63	54.00	-18.37	AV	Vertical	
5359.64	45.53	44.20	9.86	32.00	-2.34	43.19	74.00	-30.81	PK	Horizontal	
5359.64	37.30	44.20	9.86	32.00	-2.34	34.96	54.00	-19.04	AV	Horizontal	
7235.87	51.64	43.50	11.40	35.50	3.40	55.04	74.00	-18.96	PK	Vertical	
7235.87	33.68	43.50	11.40	35.50	3.40	37.08	54.00	-16.92	AV	Vertical	
7235.70	51.04	43.50	11.40	35.50	3.40	54.44	74.00	-19.56	PK	Horizontal	
7235.70	33.69	43.50	11.40	35.50	3.40	37.09	54.00	-16.91	AV	Horizontal	
11035.97	39.94	43.60	14.30	39.50	10.20	50.14	74.00	-23.86	PK	Vertical	
11035.97	31.16	43.60	14.30	39.50	10.20	41.36	54.00	-12.64	AV	Vertical	
11036.03	41.19	43.60	14.30	39.50	10.20	51.39	74.00	-22.61	PK	Horizontal	
11036.03	30.26	43.60	14.30	39.50	10.20	40.46	54.00	-13.54	AV	Horizontal	
13299.35	40.90	42.60	15.90	38.90	12.20	53.10	74.00	-20.90	PK	Vertical	
13299.35	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Vertical	
13299.31	40.10	42.60	15.90	38.90	12.20	52.30	74.00	-21.70	PK	Horizontal	
13299.31	30.04	42.60	15.90	38.90	12.20	42.24	54.00	-11.76	AV	Horizontal	
15999.75	40.50	42.70	18.00	37.10	12.40	52.90	74.00	-21.10	PK	Vertical	
15999.75	28.64	42.70	18.00	37.10	12.40	41.04	54.00	-12.96	AV	Vertical	
15999.66	40.64	42.70	18.00	37.10	12.40	53.04	74.00	-20.96	PK	Horizontal	
15999.66	29.20	42.70	18.00	37.10	12.40	41.60	54.00	-12.40	AV	Horizontal	
17997.80	31.11	42.70	19.40	46.50	23.20	54.31	74.00	-19.69	PK	Vertical	
17997.80	19.60	42.70	19.40	46.50	23.20	42.80	54.00	-11.20	AV	Vertical	
17997.56	30.40	42.70	19.40	46.50	23.20	53.60	74.00	-20.40	PK	Horizontal	
17997.56	18.35	42.70	19.40	46.50	23.20	41.55	54.00	-12.45	AV	Horizontal	

## 802.11b Mid Channel

				Antenna	Corrected	Emission						
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector			
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment		
	Mid Channel (2437 MHz)											
3264.71	48.93	44.70	6.70	28.20	-9.80	39.13	74.00	-34.87	PK	Vertical		
3264.71	38.53	44.70	6.70	28.20	-9.80	28.73	54.00	-25.27	AV	Vertical		
3264.85	48.92	44.70	6.70	28.20	-9.80	39.12	74.00	-34.88	PK	Horizontal		
3264.85	38.10	44.70	6.70	28.20	-9.80	28.30	54.00	-25.70	AV	Horizontal		
4874.46	58.64	44.20	9.04	31.60	-3.56	55.08	74.00	-18.92	PK	Vertical		
4874.46	39.60	44.20	9.04	31.60	-3.56	36.04	54.00	-17.96	AV	Vertical		
4874.50	58.16	44.20	9.04	31.60	-3.56	54.60	74.00	-19.40	PK	Horizontal		
4874.50	39.45	44.20	9.04	31.60	-3.56	35.89	54.00	-18.11	AV	Horizontal		
5359.68	46.10	44.20	9.86	32.00	-2.34	43.76	74.00	-30.24	PK	Vertical		
5359.68	37.38	44.20	9.86	32.00	-2.34	35.04	54.00	-18.96	AV	Vertical		
5359.62	45.27	44.20	9.86	32.00	-2.34	42.93	74.00	-31.07	PK	Horizontal		
5359.62	37.89	44.20	9.86	32.00	-2.34	35.55	54.00	-18.45	AV	Horizontal		
7310.75	50.91	43.50	11.40	35.50	3.40	54.31	74.00	-19.69	PK	Vertical		
7310.75	33.19	43.50	11.40	35.50	3.40	36.59	54.00	-17.41	AV	Vertical		
7310.68	51.65	43.50	11.40	35.50	3.40	55.05	74.00	-18.95	PK	Horizontal		
7310.68	33.56	43.50	11.40	35.50	3.40	36.96	54.00	-17.04	AV	Horizontal		
9747.95	41.10	43.60	14.30	39.50	10.20	51.30	74.00	-22.70	PK	Vertical		
9747.95	30.12	43.60	14.30	39.50	10.20	40.32	54.00	-13.68	AV	Vertical		
9748.19	40.15	43.60	14.30	39.50	10.20	50.35	74.00	-23.65	PK	Horizontal		
9748.19	31.17	43.60	14.30	39.50	10.20	41.37	54.00	-12.63	AV	Horizontal		
13299.17	40.31	42.60	15.90	38.90	12.20	52.51	74.00	-21.49	PK	Vertical		
13299.17	28.54	42.60	15.90	38.90	12.20	40.74	54.00	-13.26	AV	Vertical		
13299.35	39.96	42.60	15.90	38.90	12.20	52.16	74.00	-21.84	PK	Horizontal		
13299.35	29.32	42.60	15.90	38.90	12.20	41.52	54.00	-12.48	AV	Horizontal		
15999.69	40.92	42.70	18.00	37.10	12.40	53.32	74.00	-20.68	PK	Vertical		
15999.69	28.64	42.70	18.00	37.10	12.40	41.04	54.00	-12.96	AV	Vertical		
15999.55	39.63	42.70	18.00	37.10	12.40	52.03	74.00	-21.97	PK	Horizontal		
15999.55	29.53	42.70	18.00	37.10	12.40	41.93	54.00	-12.07	AV	Horizontal		
17997.88	30.98	42.70	19.40	46.50	23.20	54.18	74.00	-19.82	PK	Vertical		
17997.88	19.52	42.70	19.40	46.50	23.20	42.72	54.00	-11.28	AV	Vertical		
17997.64	30.45	42.70	19.40	46.50	23.20	53.65	74.00	-20.35	PK	Horizontal		
17997.64	17.85	42.70	19.40	46.50	23.20	41.05	54.00	-12.95	AV	Horizontal		

## 802.11b High Channel

	Antenna Corrected Emission										
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector		
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment	
	High Channel (2462 MHz)										
3264.86	48.96	44.70	6.70	28.20	-9.80	39.16	74.00	-34.84	PK	Vertical	
3264.86	38.24	44.70	6.70	28.20	-9.80	28.44	54.00	-25.56	AV	Vertical	
3264.68	47.82	44.70	6.70	28.20	-9.80	38.02	74.00	-35.98	PK	Horizontal	
3264.68	38.16	44.70	6.70	28.20	-9.80	28.36	54.00	-25.64	AV	Horizontal	
4924.42	58.33	44.20	9.04	31.60	-3.56	54.77	74.00	-19.23	PK	Vertical	
4924.42	38.18	44.20	9.04	31.60	-3.56	34.62	54.00	-19.38	AV	Vertical	
4924.38	58.50	44.20	9.04	31.60	-3.56	54.94	74.00	-19.06	PK	Horizontal	
4924.38	38.33	44.20	9.04	31.60	-3.56	34.77	54.00	-19.23	AV	Horizontal	
5359.67	45.20	44.20	9.86	32.00	-2.34	42.86	74.00	-31.14	PK	Vertical	
5359.67	37.42	44.20	9.86	32.00	-2.34	35.08	54.00	-18.92	AV	Vertical	
5359.71	46.24	44.20	9.86	32.00	-2.34	43.90	74.00	-30.10	PK	Horizontal	
5359.71	37.58	44.20	9.86	32.00	-2.34	35.24	54.00	-18.76	AV	Horizontal	
7385.98	51.11	43.50	11.40	35.50	3.40	54.51	74.00	-19.49	PK	Vertical	
7385.98	33.67	43.50	11.40	35.50	3.40	37.07	54.00	-16.93	AV	Vertical	
7385.88	50.68	43.50	11.40	35.50	3.40	54.08	74.00	-19.92	PK	Horizontal	
7385.88	32.71	43.50	11.40	35.50	3.40	36.11	54.00	-17.89	AV	Horizontal	
9847.80	39.82	43.60	14.30	39.50	10.20	50.02	74.00	-23.98	PK	Vertical	
9847.80	31.16	43.60	14.30	39.50	10.20	41.36	54.00	-12.64	AV	Vertical	
9848.20	41.04	43.60	14.30	39.50	10.20	51.24	74.00	-22.76	PK	Horizontal	
9848.20	30.92	43.60	14.30	39.50	10.20	41.12	54.00	-12.88	AV	Horizontal	
13299.25	40.90	42.70	18.00	37.10	12.40	53.30	74.00	-20.70	PK	Vertical	
13299.25	28.54	42.70	18.00	37.10	12.40	40.94	54.00	-13.06	AV	Vertical	
13299.34	39.67	42.70	18.00	37.10	12.40	52.07	74.00	-21.93	PK	Horizontal	
13299.34	29.75	42.70	18.00	37.10	12.40	42.15	54.00	-11.85	AV	Horizontal	
17997.74	29.99	42.70	19.40	46.50	23.20	53.19	74.00	-20.81	PK	Vertical	
17997.74	19.30	42.70	19.40	46.50	23.20	42.50	54.00	-11.50	AV	Vertical	
17997.76	30.51	42.70	19.40	46.50	23.20	53.71	74.00	-20.29	PK	Horizontal	
17997.76	19.09	42.70	19.40	46.50	23.20	42.29	54.00	-11.71	AV	Horizontal	

## Remark:

- 1. Corrected Factor = Amplifier.-Antenna Factor Cable Loss
- 2. Scan with 802.11b, 802.11g, 802.11n (HT-20),802.11n (HT-40)the worst case is 802.11b. Emission Level = Reading + Factor Margin = Limit Emission Leve
- 3. The frequency emission of peak points that did not show above the forms are at least 20dB below the limit, the frequency emission is mainly from the environment noise.

## 3.2.6 TEST RESULTS (Band edge Requirements)

				Antenna	Corrected	Emission						
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector			
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment		
	802.11b											
2390.00	68.47	43.80	4.91	25.90	-12.99	55.48	74.00	-18.52	PK	Vertical		
2390.00	53.90	43.80	4.91	25.90	-12.99	40.91	54.00	-13.09	AV	Vertical		
2390.00	69.50	43.80	4.91	25.90	-12.99	56.51	74.00	-17.49	PK	Horizontal		
2390.00	52.53	43.80	4.91	25.90	-12.99	39.54	54.00	-14.46	AV	Horizontal		
2483.50	70.46	43.80	5.12	25.90	-12.78	57.68	74.00	-16.32	PK	Vertical		
2483.50	52.31	43.80	5.12	25.90	-12.78	39.53	54.00	-14.47	AV	Vertical		
2483.50	70.11	43.80	5.12	25.90	-12.78	57.33	74.00	-16.67	PK	Horizontal		
2483.50	52.48	43.80	5.12	25.90	-12.78	39.70	54.00	-14.30	AV	Horizontal		
	802.11g											
2390.00	66.92	43.80	4.91	25.90	-12.99	53.93	74.00	-20.07	PK	Vertical		
2390.00	53.46	43.80	4.91	25.90	-12.99	40.47	54.00	-13.53	AV	Vertical		
2390.00	65.71	43.80	4.91	25.90	-12.99	52.72	74.00	-21.28	PK	Horizontal		
2390.00	54.05	43.80	4.91	25.90	-12.99	41.06	54.00	-12.94	AV	Horizontal		
2483.50	65.76	43.80	5.12	25.90	-12.78	52.98	74.00	-21.02	PK	Vertical		
2483.50	53.62	43.80	5.12	25.90	-12.78	40.84	54.00	-13.16	AV	Vertical		
2483.50	65.31	43.80	5.12	25.90	-12.78	52.53	74.00	-21.47	PK	Horizontal		
2483.50	53.23	43.80	5.12	25.90	-12.78	40.45	54.00	-13.55	AV	Horizontal		
					802.11n20							
2390.00	66.95	43.80	4.91	25.90	-12.99	53.96	74.00	-20.04	PK	Vertical		
2390.00	52.49	43.80	4.91	25.90	-12.99	39.50	54.00	-14.50	AV	Vertical		
2390.00	65.98	43.80	4.91	25.90	-12.99	52.99	74.00	-21.01	PK	Horizontal		
2390.00	53.18	43.80	4.91	25.90	-12.99	40.19	54.00	-13.81	AV	Horizontal		
2483.50	66.55	43.80	5.12	25.90	-12.78	53.77	74.00	-20.23	PK	Vertical		
2483.50	52.50	43.80	5.12	25.90	-12.78	39.72	54.00	-14.28	AV	Vertical		
2483.50	65.78	43.80	5.12	25.90	-12.78	53.00	74.00	-21.00	PK	Horizontal		
2483.50	52.35	43.80	5.12	25.90	-12.78	39.57	54.00	-14.43	AV	Horizontal		

				Antenna	Corrected	Emission				
Frequency	Reading	Amplifier	Loss	Factor	Factor	Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	Comment
	802.11n40									
2390.00	66.68	43.80	4.91	25.90	-12.99	53.69	74.00	-20.31	PK	Vertical
2390.00	52.74	43.80	4.91	25.90	-12.99	39.75	54.00	-14.25	AV	Vertical
2390.00	65.94	43.80	4.91	25.90	-12.99	52.95	74.00	-21.05	PK	Horizontal
2390.00	54.02	43.80	4.91	25.90	-12.99	41.03	54.00	-12.97	AV	Horizontal
2483.50	66.17	43.80	5.12	25.90	-12.78	53.39	74.00	-20.61	PK	Vertical
2483.50	52.75	43.80	5.12	25.90	-12.78	39.97	54.00	-14.03	AV	Vertical
2483.50	65.85	43.80	5.12	25.90	-12.78	53.07	74.00	-20.93	PK	Horizontal
2483.50	53.48	43.80	5.12	25.90	-12.78	40.70	54.00	-13.30	AV	Horizontal

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Low measurement frequencies is range from 2300 to 2412 MHz, high measurement frequencies is range from 2462 to 2500 MHz.

Only show the worst point data of the emissions in the frequency 2300-2412 MHz and 2462-2500 MHz.

#### 4. CONDUCTED SPURIOUS & BAND EDGE EMISSION

#### 4.1 APPLIED PROCEDURES / LIMIT

According to FCC section 15.247(d), in any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

#### **4.2 TEST PROCEDURE**

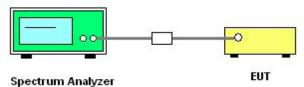
Spectrum Parameter	Setting				
Detector	Peak				
Start/Stop Frequency	30 MHz to 10th carrier harmonic				
RB / VB (emission in restricted band)	100 KHz/300 KHz				
Trace-Mode:	Max hold				

## For Band edge

Spectrum Parameter	Setting			
Detector	Peak			
Ctart/Ctan Fraguency	Lower Band Edge: 2300 to 2412 MHz			
Start/Stop Frequency	Upper Band Edge: 2462 to 2500 MHz			
RB / VB (emission in restricted band)	100 KHz/300 KHz			
Trace-Mode:	Max hold			

# 4.3 DEVIATION FROM STANDARD No deviation.

#### 4.4 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 500hm; the path loss as the factor is calibrated to correct the reading.

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

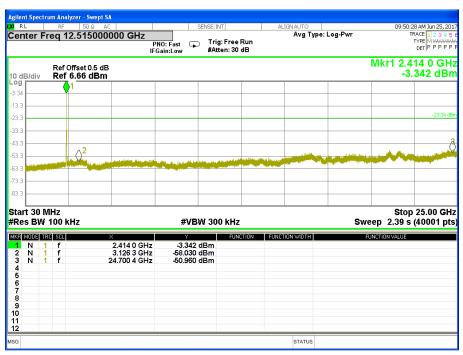
#### 4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

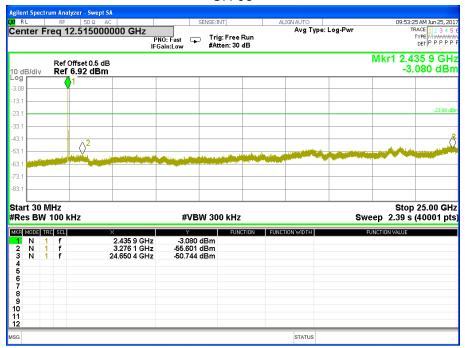
### 4.6 TEST RESULTS

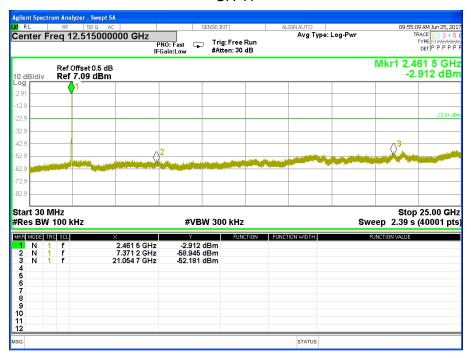
Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX b Mode /CH01, CH06, CH1	1	

CH 01



CH 06





CH 01



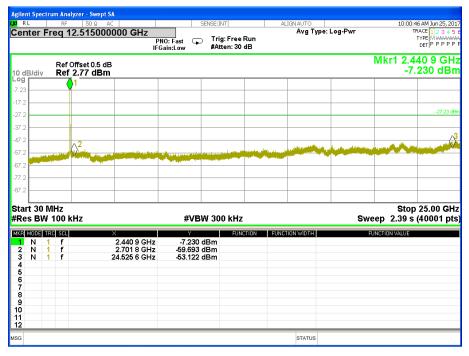


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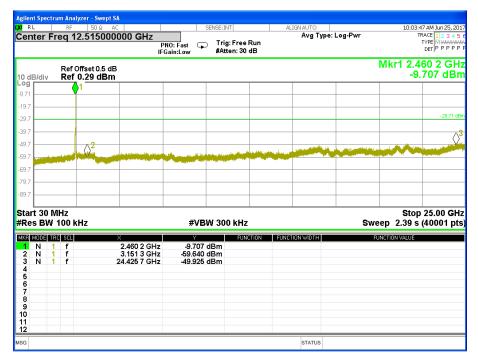
Temperature:	25 ℃	Relative Humidity:	60%				
Pressure:	1015 hPa	Test Voltage:	DC 3.7V				
Test Mode:	TX g Mode /CH01, CH06, CH11						

#### CH 01

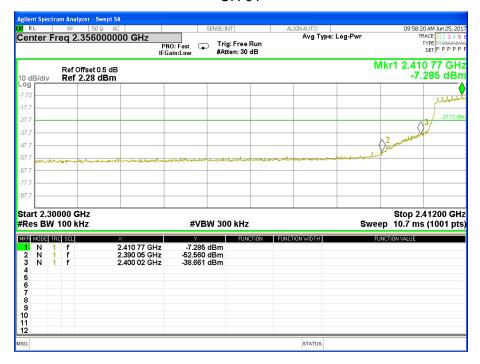


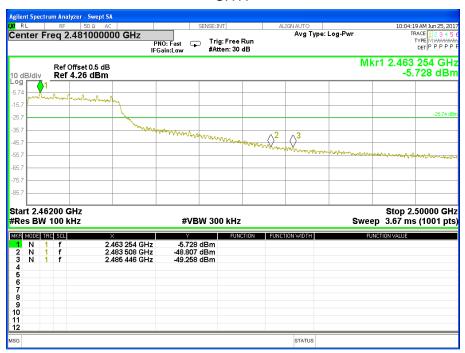


CH 11



CH 01

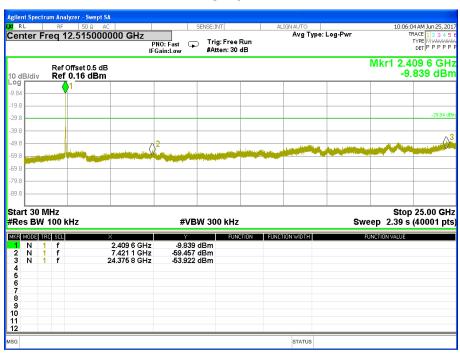


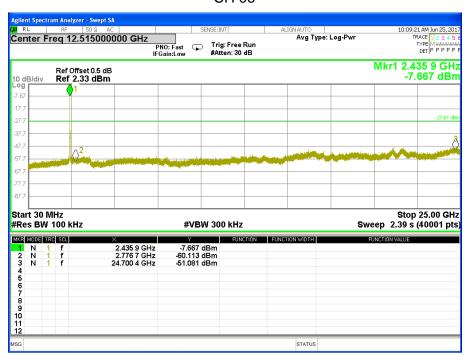


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Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX n Mode(20M) /CH01, CH06, CH11		

### CH 01







### Band edge

CH 01



CH 11

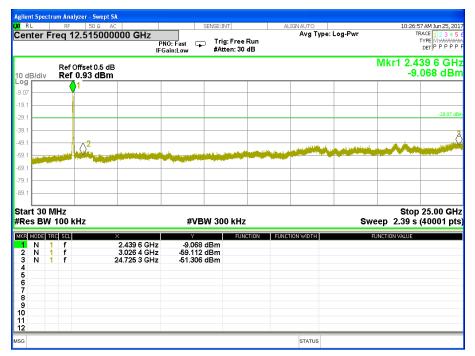


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Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX n Mode(40M) /CH03, CH06, CH09		



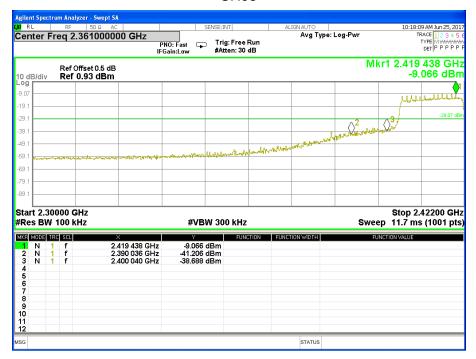
**CH06** 





### Band edge

# CH03





### 5. POWER SPECTRAL DENSITY TEST

### 5.1 APPLIED PROCEDURES / LIMIT

FCC Part15.247 , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e)	Power Spectral Density	≤8 dBm (RBW ≥ 3KHz)	2400-2483.5	PASS

### **5.2 TEST PROCEDURE**

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the 100 kHz  $\geq$  RBW  $\geq$  3 kHz.
- 4. Set the VBW ≥ 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

# 5.3 DEVIATION FROM STANDARD No deviation.

5.4 TEST SETUP



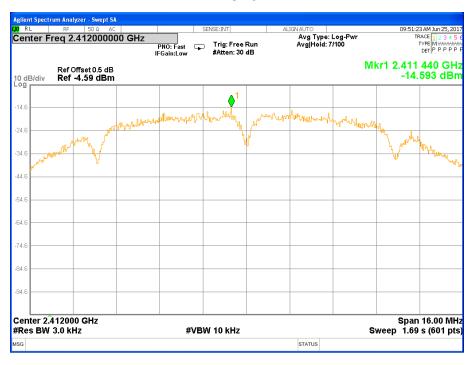
### 5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

# 5.6 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-14.593	≤8	PASS
2437 MHz	-16.344	≤8	PASS
2462 MHz	-16.255	≤8	PASS





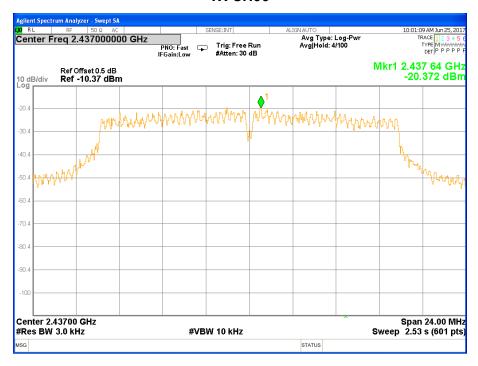


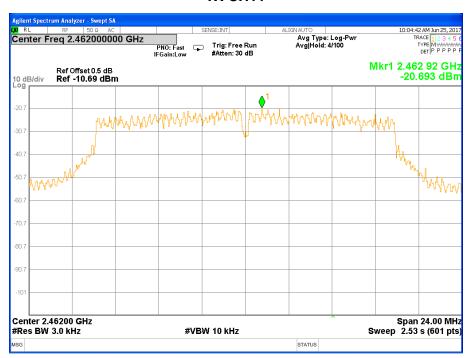
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raye 40 UI UJ	Report No., 1707031W02

Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX g Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-22.433	≤8	PASS
2437 MHz	-20.372	≤8	PASS
2462 MHz	-20.693	≤8	PASS



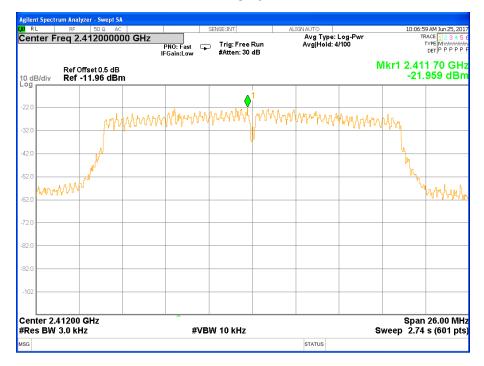


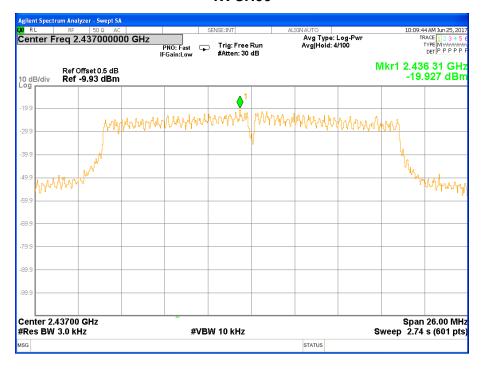


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FAUR 40 OF 00	REDOIL NO. 1/U/U91WUZ

Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	Power Density (dBm/3kHz)	Limit (dBm)	Result
2412 MHz	-21.959	≤8	PASS
2437 MHz	-19.927	≤8	PASS
2462 MHz	-20.788	≤8	PASS







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raue ou ul uo	Report No., 17070919902

Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1015 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	Power Density (dBm/3kHz)	Limit(dBm)	Result
2422 MHz	-24.200	≤8	PASS
2437 MHz	-24.225	≤8	PASS
2452 MHz	-24.064	≤8	PASS







### 6. BANDWIDTH TEST

### 6.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C				
Section Test Item Limit Frequency Range (MHz) Result				Result
15.247(a)(2)	Bandwidth	≥500KHz (6dB bandwidth)	2400-2483.5	PASS

### 6.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW≥3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be≥6 dB.

# 6.3 DEVIATION FROM STANDARD No deviation.

#### 6.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

### 6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

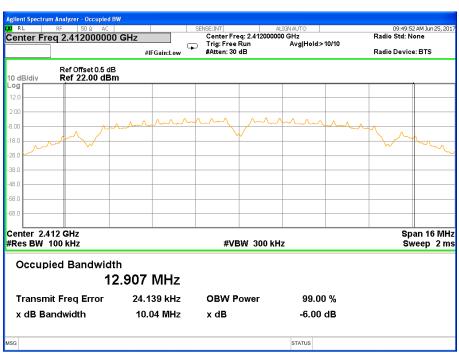
# 6.6 TEST RESULTS

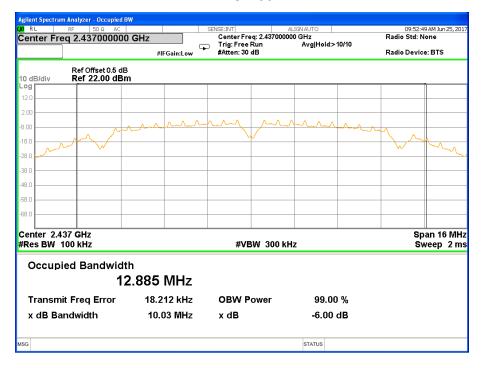
Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX b Mode /CH01, CH06, CH11		

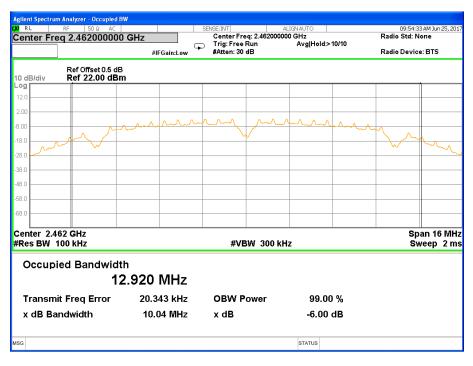
Remark: PEAK DETECTOR IS USED

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	10.04	≥500KHz	PASS
2437 MHz	10.03	≥500KHz	PASS
2462 MHz	10.04	≥500KHz	PASS

**TX CH 01** 



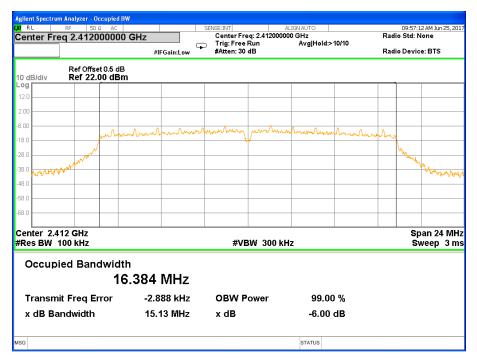


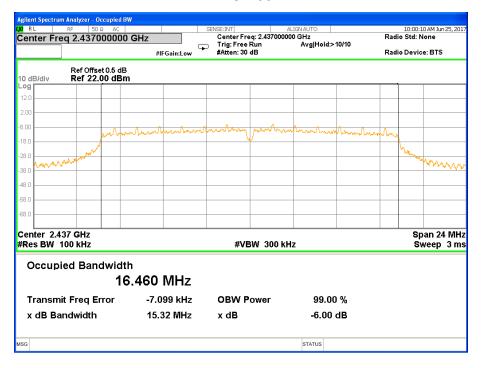


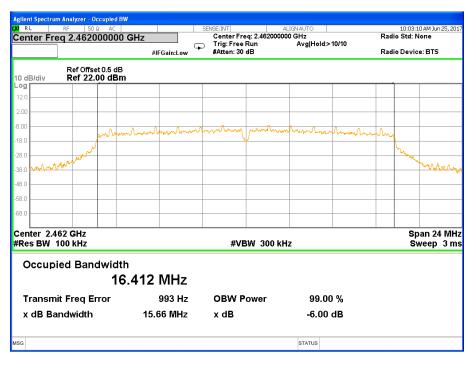
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Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX g Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	15.13	≥500KHz	PASS
2437 MHz	15.32	≥500KHz	PASS
2462 MHz	15.66	≥500KHz	PASS



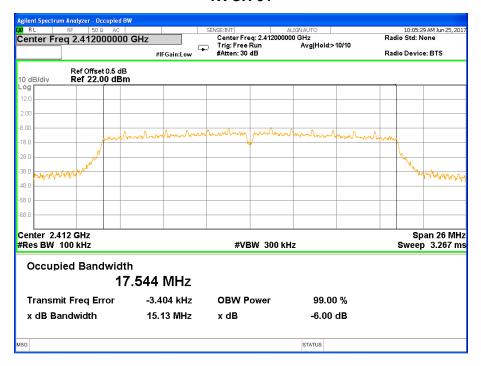


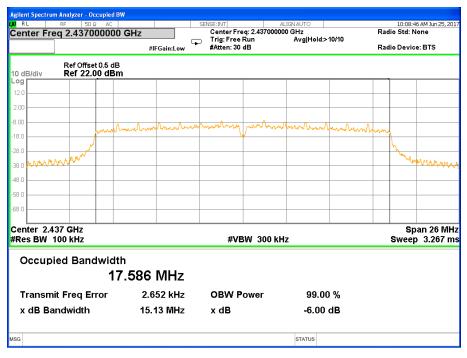


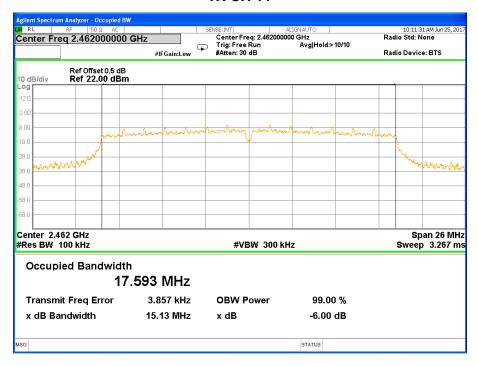
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Page 57 of 65	RADOR NO	1/11/11U1W117
lade 37 Ol O3	NEDUL NO	ITUTUSIANUE

Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	15.13	≥500KHz	PASS
2437 MHz	15.13	≥500KHz	PASS
2462 MHz	15.13	≥500KHz	PASS



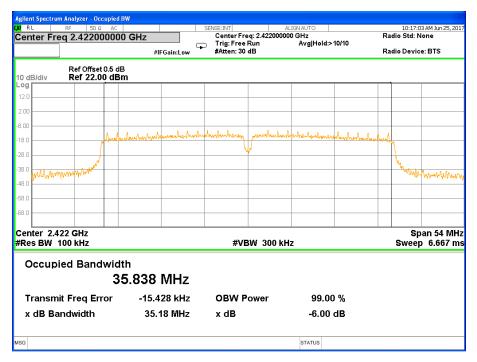


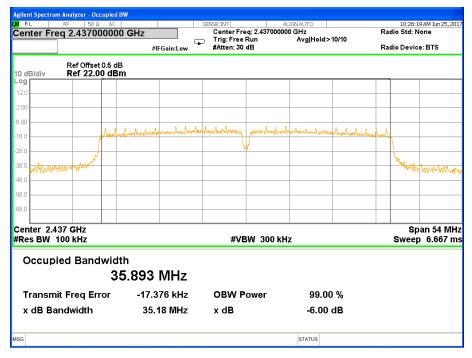


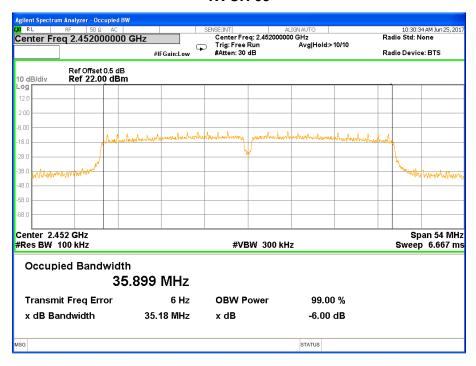
Page 59 of 65	Report No.: 1707091W02
Page ay or na	Report No - 1/U/U91VVU/

Temperature:	25 ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 3.7V
Test Mode:	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2422 MHz	35.18	≥500KHz	PASS
2437 MHz	35.18	≥500KHz	PASS
2452 MHz	35.18	≥500KHz	PASS







# 7. PEAK OUTPUT POWER TEST

# 7.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C				
Section Test Item Limit Frequency Range (MHz) Result				
15.247(b)(3)	Output Power	1 watt or 30dBm	2400-2483.5	PASS

### 7.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Sensor&PC

# 7.3 DEVIATION FROM STANDARD No deviation.

### 7.4 TEST SETUP

EUT		Power Sensor
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# 7.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

# 7.6 TEST RESULTS

Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Pressure:	1012 hPa	Test Voltage:	DC 3.7V

TX 802.11b Mode					
Test	Frequency	Conducted	Output Power	LIMIT	
Channel	(MHz)	Peak(dBm)	AVG(dBm)	dBm	
CH01	2412	8.78	7.75	30	
CH06	2437	8.82	7.81	30	
CH11	2462	9.03	8.01	30	

TX 802.11g Mode					
Test	Frequency	Frequency Conducted Output Power LIMIT			
Channel	(MHz)	Peak(dBm)	AVG(dBm)	dBm	
CH01	2412	6.53	5.52	30	
CH06	2437	7.01	6.01	30	
CH11	2462	6.64	5.62	30	

TX 802.11n20 Mode					
Test	Frequency	Conducted Output Power LIMIT			
Channel	(MHz)	Peak(dBm)	AVG(dBm)	dBm	
CH01	2412	6.35	4.35	30	
CH06	2437	6.86	4.84	30	
CH11	2462	6.52	4.51	30	

TX 802.11n40 Mode					
Test	Frequency	Conducted Output Power LIMIT			
Channel	(MHz)	Peak(dBm) AVG(dBm)		dBm	
CH03	2422	5.72	3.69	30	
CH06	2437	5.83	3.81	30	
CH09	2452	5.91	3.89	30	

# 8. ANTENNA REQUIREMENT

# 8.1 STANDARD REQUIREMENT

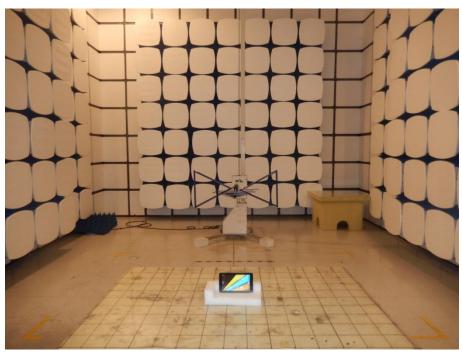
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

### **8.2 EUT ANTENNA**

The EUT antenna is Internal PIFA Antenna. It comply with the standard requirement.

# APPENDIX - PHOTOS OF TEST SETUP







# **Conducted Measurement Photos**



\*\*\*\*\*END OF THE REPORT\*\*\*