





# **RADIO TEST REPORT**

Report No:STS1806048W05

Issued for

BBB Inc.

28, Yatap-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea

Product Name:	Mobile device	
Brand Name:	elemark 2	
Model Name:	EA-110	
Series Model:	N/A	
FCC ID:	2AKGP-EA110	
Test Standard:	FCC Part 15.247	

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# **TEST RESULT CERTIFICATION**

Applicant's name		
Manufacture's Name: Shenzhen qianhai aibo Science and Technology Ltd.  Address	Applicant's name:	BBB Inc.
Address	Address:	28, Yatap-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, South Korea
Futian District, Shenzhen city, Guangdong Province, China  Product Name	Manufacture's Name:	Shenzhen qianhai aibo Science and Technology Ltd.
Product Name	Address:	
Brand Name	Product description	Tallan Blanck, Chanzhan aky, Caangachg Frevince, China
Model Name	Product Name:	Mobile device
Series Model	Brand Name:	elemark 2
Test Standards: FCC Part15.247  Test procedure	Model Name:	EA-110
Test procedure	Series Model:	N/A
This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.  This report shall not be reproduced except in full, without the written approval of STS, this document only be altered or revised by STS, personal only, and shall be noted in the revision of the document.  Date of Test	Test Standards:	FCC Part15.247
test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.  This report shall not be reproduced except in full, without the written approval of STS, this document only be altered or revised by STS, personal only, and shall be noted in the revision of the document.  Date of Test	Test procedure	ANSI C63.10-2013
Date (s) of performance of tests: 28 June 2018~07 July 2018  Date of Issue: 09 July 2018  Test Result: Pass  Testing Engineer : (Chris chen )  Technical Manager : Seum She	test (EUT) is in compliance with identified in the report. This report shall not be reproduct	the FCC requirements. And it is applicable only to the tested sample sed except in full, without the written approval of STS, this document
Date of Issue	Date of Test	:
Testing Engineer : Chris cher  (Chris chen)  Technical Manager : Sean She	Date (s) of performance of tests	: 28 June 2018~07 July 2018
Technical Manager:  Technical Manager:  Technical Manager:  Technical Manager:	Date of Issue	: 09 July 2018
(Chris chen)  Technical Manager:  Sean She APPROVAL &	Test Result	: Pass
		(Chris chen)  Sean She APPROVAL

Authorized Signatory:



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# **Revision History**

Rev.	ev. Issue Date Report NO.		Effect Page	Contents
00	09 July 2018 STS1806048W05		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	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 (d)	15.247 (d) Radiated Spurious Emission				
15.247 (d)	15.247 (d) Conducted Spurious & Band Edge Emission				
15.247 (e) Power Spectral Density		PASS			
15.205	Restricted Band Edge Emission	PASS			
Part 15.247(d)/part 15.209(a)	Band Edge Emission	PASS			
15.203	Antenna Requirement	PASS			

# NOTE:

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



#### 1.1 TEST FACTORY

Shenzhen STS Test Services Co., Ltd.

Add.: 1/F., Building B, Zhuoke Science Park, No.190, Chongqing Road,

Fuyong Street, Bao'an District, Shenzhen, Guangdong, China CNAS Registration No.: L7649; FCC Registration No.: 625569

IC Registration No.: 12108A; A2LA Certificate No.: 4338.01;

# 1.2 MEASUREMENT UNCERTAINTY

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

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 (9KHz-30MHz)	±3.02dB
6	All emissions,radiated (30MHz-200MHz)	±3.80dB
7	All emissions,radiated (200MHz-1000MHz)	±3.97dB
8	All emissions,radiated(>1G)	±3.03dB



# 2. GENERAL INFORMATION

# 2.1 GENERAL DESCRIPTION OF EUT

Product Name	Mobile device			
Trade Name	elemark 2			
Model Name	EA-110	EA-110		
Series Model	N/A	N/A		
Model Difference	N/A			
Product Description	The EUT is a Mobil Operation Frequency:  Modulation Type:  Bit Rate of Transmitter:  Number Of Channel: Antenna Designation: Antenna Gain (dBi):  Duty Cycle:	e device  802.11b/g/nH20: 2412~2462 MHz 802.11nH40:2422~2452MHz  802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM 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 802.11b/g/nH20: 11CH 802.11nH40: 7CH  Please see Note 3.  -1.5 dBi >98%		
Channel List	Please refer to the	Note 2.		
Adapter	Power supply and ADP(rating): Input: AC 100V-240V, 50/60Hz, 250mA Output: DC 5V, 1000mA Battery(rating):			
Battery	Rated Voltage: 3.7V Charge Limit: 4.2V Capacity: 1600mAh			
Hardware version number	EA-110_HW_V1.0.0	0		
Software version number	EA-110_SW_V1.0.0			
Connecting I/O Port(s)	Please refer to the User's Manual			

#### Note:

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



Operation Frequency of channel					
8	302.11b/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:

2.4GHZ Test Frequenc	z.4GHz Test Frequency.					
For 802.11b	o/g/n (HT20)	For 802.1	In (HT40)			
Channel	Channel Freq.(MHz)		Freq.(MHz)			
01 2412		03	2422			
06 2437		06	2437			
11	11 2462		2452			

An	t Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	elemark 2	EA-110	PIFA Antenna	N/A	-1.5	WLAN 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, and the worst case of 120V /60Hz is shown in the report

#### AC Conducted Emission

Test Case				
AC Conducted Model 2: Keeping WIELTY				
Emission	Mode13: Keeping WIFI TX			

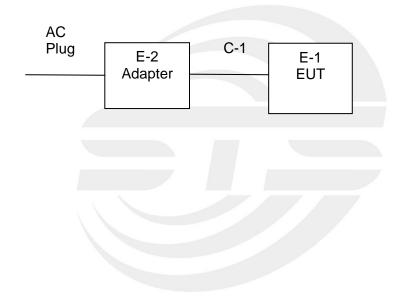


# 2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

# **Radiation Test Set**



# **Conducted Emission Test**





#### 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-2	Adapter	N/A	N/A	N/A	N/A

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

#### Note:

- (1) The support equipment was authorized by SDOC.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length\_"</code> 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	ESCI	102086	2017.10.15	2018.10.14		
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2018.11.01		
Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-1343	2017.10.27	2018.10.26		
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	N/A	2018.03.11	2019.03.10		
Temperature & Humitidy	HH660	Mieo	N/A	2017.10.15	2018.10.14		
Temperature & Humitidy	HH660	Mieo	N/A	2017.10.15	2018.10.14		
Pre-mplifier (0.1M-3GHz)	EM	EM330	60538	2018.03.11	2019.03.10		
PreAmplifier (1G-26.5GHz)	Agilent	8449B	60538	2017.10.15	2018.10.14		
Passive Loop (9K30MHz)	ZHNAN	ZN3090C	16035	2018.03.11	2019.03.10		
Low frequency cable	EM	R01	N/A	2018.03.11	2019.03.10		
Low frequency cable	EM	R06	N/A	2018.03.11	2019.03.10		
High frequency cable	SCHWARZBECK	R04	N/A	2018.03.11	2019.03.10		
High frequency cable	SCHWARZBECK	R02	N/A	2018.03.11	2019.03.10		
Semi-anechoic chamber	Changling	966	N/A	2017.10.15	2018.10.14		
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	2017.10.15	2018.10.14
LISN	R&S	ENV216	101242	2017.10.15	2018.10.14
conduction Cable	EM	C01	N/A	2018.03.11	2019.03.10
Temperature & Humitidy	Mieo	HH660	N/A	2017.10.15	2018.10.14





Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
USB RF power sensor	DARE	RPR3006W	15I00041SNO03	2017.10.15	2018.10.14
Power Meter	R&S	NRP	100510	2017.10.15	2018.10.14
Spectrum Analyzer	Agilent	N9020A	MY51110105	2018.03.08	2019.03.07
Signal Analyzer	Agilent	N9020A	MY49100060	2017.10.15	2018.10.14





## 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.

FREQUENCY (MHz)	Conducted Emission limit (dBuV)		
FREQUENCT (MINZ)	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

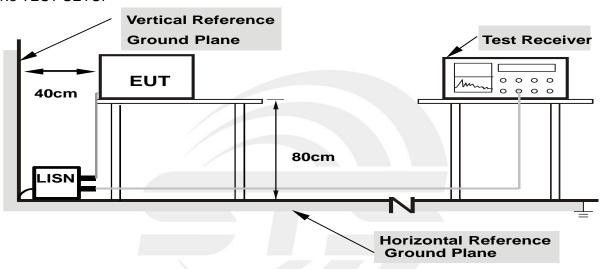
Receiver Parameters	Setting		
Attenuation	10 dB		
Start Frequency	0.15 MHz		
Stop Frequency	30 MHz		
IF Bandwidth	9 kHz		



#### 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.



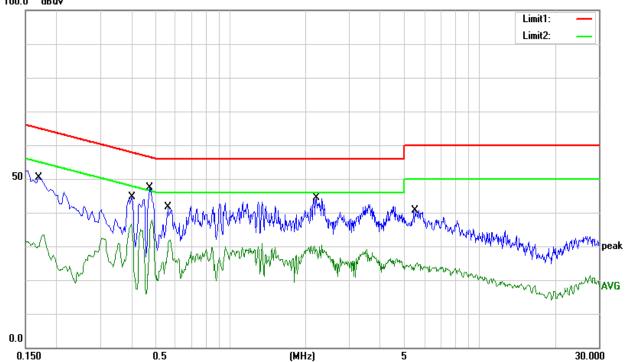
# 3.1.5 TEST RESULT

Temperature:	23 ℃	Relative Humidity:	61%
Test Voltage:	AC 120V/60Hz	Phase:	L
Test Mode:	Mode 13		

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1700	40.53	9.79	50.32	64.96	-14.64	QP
0.1700	20.21	9.79	30.00	54.96	-24.96	AVG
0.3980	34.49	10.03	44.52	57.90	-13.38	QP
0.3980	26.66	10.03	36.69	47.90	-11.21	AVG
0.4740	37.29	10.03	47.32	56.44	-9.12	QP
0.4740	27.76	10.03	37.79	46.44	-8.65	AVG
0.5620	31.56	9.97	41.53	56.00	-14.47	QP
0.5620	21.87	9.97	31.84	46.00	-14.16	AVG
2.2020	34.57	9.79	44.36	56.00	-11.64	QP
2.2020	19.34	9.79	29.13	46.00	-16.87	AVG
5.4860	30.80	9.85	40.65	60.00	-19.35	QP
5.4860	14.49	9.85	24.34	50.00	-25.66	AVG

## Remark:

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



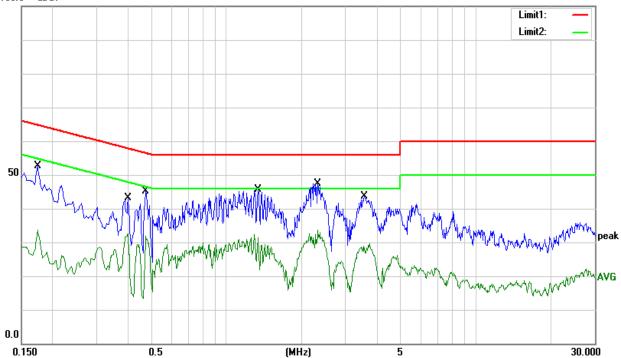
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Temperature:	23 ℃	Relative Humidity:	61%
Test Voltage:	AC 120V/60Hz	Phase:	N
Test Mode:	Mode 13		

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB)	(dBuV)	(dBuV)	(dB)	Remark
0.1740	42.91	9.81	52.72	64.77	-12.05	QP
0.1740	23.73	9.81	33.54	54.77	-21.23	AVG
0.4020	32.94	10.06	43.00	57.81	-14.81	QP
0.4020	22.59	10.06	32.65	47.81	-15.16	AVG
0.4740	35.03	10.00	45.03	56.44	-11.41	QP
0.4740	21.86	10.00	31.86	46.44	-14.58	AVG
1.3380	35.80	9.82	45.62	56.00	-10.38	QP
1.3380	21.44	9.82	31.26	46.00	-14.74	AVG
2.3220	37.38	9.89	47.27	56.00	-8.73	QP
2.3220	21.74	9.89	31.63	46.00	-14.37	AVG
3.5700	33.59	9.93	43.52	56.00	-12.48	QP
3.5700	18.42	9.93	28.35	46.00	-17.65	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)

EIMITO OT TO EIMIOCIOTY MENOCIOTY (0.0001M12 TO001M12)						
Frequencies	Field Strength	Measurement Distance				
(MHz)	(micorvolts/meter)	(meters)				
0.009~0.490	2400/F(KHz)	300				
0.490~1.705	24000/F(KHz)	30				
1.705~30.0	30	30				
30~88	100	3				
88~216	150	3				
216~960	200	3				
Above 960	500	3				

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

EDEOLIENCY (MH-)	(dBuV/m) (at 3M)		
FREQUENCY (MHz)	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/AV	
Start Frequency	1000 MHz(Peak/AV)	
Stop Frequency	10th carrier hamonic(Peak/AV)	
RB / VB (emission in restricted	4 MU- /2MU-	
band)	1 MHz /3MHz	

For Band edge (worse case)

En Barra Bage (Meres Base)			
Spectrum Parameter	Setting		
Detector	Peak/AV		
Start/Stop Frequency	Lower Band Edge: 2300 to 2400 MHz		
Start/Stop Frequency	Upper Band Edge: 2483.5 to 2500 MHz		
RB / VB (emission in restricted band)	1 MHz /3MHz		



Receiver Parameter	Setting
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for PK & AV & QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for PK & AV & QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

#### 3.2.2 TEST PROCEDURE

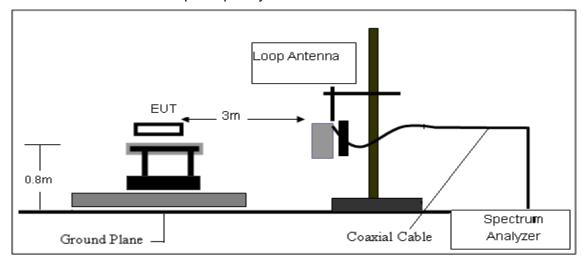
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the 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

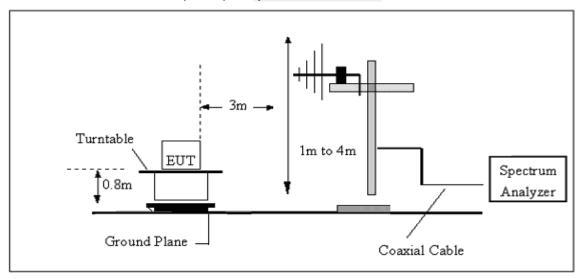


#### 3.2.3 TEST SETUP

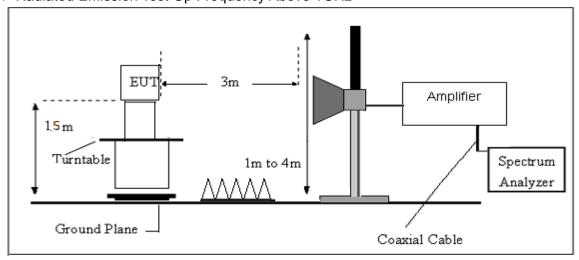
# (A) Radiated Emission Test-Up Frequency Below 30MHz



# (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 FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where

FS = Field Strength

CL = Cable Attenuation Factor (Cable Loss)

RA = Reading Amplitude

AG = Amplifier Gain

AF = Antenna Factor

For example

Frequency	FS	RA	AF	CL	AG	Factor
(MHz)	(dBµV/m)	(dBµV/m)	(dB)	(dB)	(dB)	(dB)
300	40	58.1	12.2	1.6	31.9	-18.1

Factor=AF+CL-AG





## 3.2.6 TEST RESULT

## 9KHz-30MHz

Temperature:	25.5 ℃	Relative Humidtity:	62%
Test Voltage:	DC 3.7V From Battery	Polarization:	
Test Mode:	TX Mode		

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.



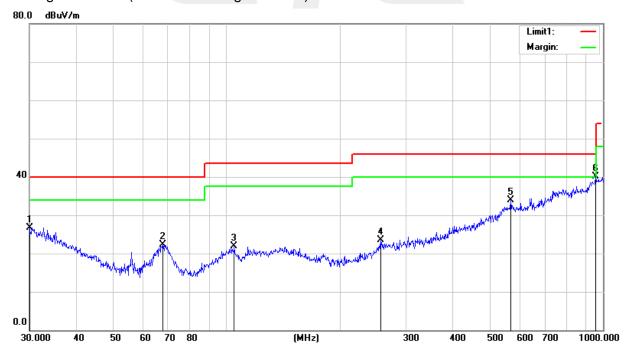
# (30MHz - 1000MHz)

Temperature:	25.5 ℃	Relative Humidtity:	62%		
Test Voltage:	DC 3.7V From Battery	Polarization:	Horizontal		
Test Mode:	Mode 1/2/3/4/5/6/7/8/9/10/11/12(Mode 3-1M worst mode)				

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
30.0000	37.97	-11.19	26.78	40.00	-13.22	QP
67.6751	46.45	-24.16	22.29	40.00	-17.71	QP
104.9033	40.65	-18.78	21.87	43.50	-21.63	QP
256.5211	39.10	-15.50	23.60	46.00	-22.40	QP
568.6127	40.53	-6.62	33.91	46.00	-12.09	QP
955.4381	40.46	-0.26	40.20	46.00	-5.80	QP

#### Remark:

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





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Temperature:	25.5 ℃	Relative Humidtity:	62%	
Test Voltage:	DC 3.7V From Battery	Polarization:	Vertical	
Test Mode:	Mode 1/2/3/4/5/6/7/8/9/10/11/12(Mode 3-1M worst mode)			

Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
30.0000	38.40	-11.19	27.21	40.00	-12.79	QP
66.9670	44.33	-24.17	20.16	40.00	-19.84	QP
117.3603	41.23	-17.86	23.37	43.50	-20.13	QP
293.0842	39.41	-15.24	24.17	46.00	-21.83	QP
558.7302	39.96	-6.59	33.37	46.00	-12.63	QP
942.1305	40.03	-0.65	39.38	46.00	-6.62	QP

# Remark:.

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







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

# 802.11b Low Channel

	602.116 LOW Chamier									
				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 l	ИНz)				
3264.89	48.71	44.70	6.70	28.20	-9.80	38.91	74.00	-35.09	PK	Vertical
3264.89	39.72	44.70	6.70	28.20	-9.80	29.92	54.00	-24.08	AV	Vertical
3264.56	48.93	44.70	6.70	28.20	-9.80	39.13	74.00	-34.87	PK	Horizontal
3264.56	38.49	44.70	6.70	28.20	-9.80	28.69	54.00	-25.31	AV	Horizontal
4824.43	59.03	44.20	9.04	31.60	-3.56	55.47	74.00	-18.53	PK	Vertical
4824.43	38.14	44.20	9.04	31.60	-3.56	34.58	54.00	-19.42	AV	Vertical
4824.48	59.24	44.20	9.04	31.60	-3.56	55.68	74.00	-18.32	PK	Horizontal
4824.48	39.55	44.20	9.04	31.60	-3.56	35.99	54.00	-18.01	AV	Horizontal
5359.77	45.63	44.20	9.86	32.00	-2.34	43.29	74.00	-30.71	PK	Vertical
5359.77	37.59	44.20	9.86	32.00	-2.34	35.25	54.00	-18.75	AV	Vertical
5359.58	46.55	44.20	9.86	32.00	-2.34	44.21	74.00	-29.79	PK	Horizontal
5359.58	38.42	44.20	9.86	32.00	-2.34	36.08	54.00	-17.92	AV	Horizontal
7235.82	50.61	43.50	11.40	35.50	3.40	54.01	74.00	-19.99	PK	Vertical
7235.82	33.47	43.50	11.40	35.50	3.40	36.87	54.00	-17.13	AV	Vertical
7235.89	51.53	43.50	11.40	35.50	3.40	54.93	74.00	-19.07	PK	Horizontal
7235.90	30.83	43.50	11.40	35.50	3.40	34.23	54.00	-19.77	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 N	ЛHz)				
3264.70	49.06	44.70	6.70	28.20	-9.80	39.26	74.00	-34.74	PK	Vertical
3264.70	39.51	44.70	6.70	28.20	-9.80	29.71	54.00	-24.29	AV	Vertical
3264.72	49.05	44.70	6.70	28.20	-9.80	39.25	74.00	-34.75	PK	Horizontal
3264.72	38.92	44.70	6.70	28.20	-9.80	29.12	54.00	-24.88	AV	Horizontal
4874.48	59.51	44.20	9.04	31.60	-3.56	55.95	74.00	-18.05	PK	Vertical
4874.48	38.85	44.20	9.04	31.60	-3.56	35.29	54.00	-18.71	AV	Vertical
4874.58	59.58	44.20	9.04	31.60	-3.56	56.02	74.00	-17.98	PK	Horizontal
4874.58	39.32	44.20	9.04	31.60	-3.56	35.76	54.00	-18.24	AV	Horizontal
5359.85	46.25	44.20	9.86	32.00	-2.34	43.91	74.00	-30.09	PK	Vertical
5359.85	38.33	44.20	9.86	32.00	-2.34	35.99	54.00	-18.01	AV	Vertical
5359.65	46.08	44.20	9.86	32.00	-2.34	43.74	74.00	-30.26	PK	Horizontal
5359.65	38.23	44.20	9.86	32.00	-2.34	35.89	54.00	-18.11	AV	Horizontal
7310.74	51.32	43.50	11.40	35.50	3.40	54.72	74.00	-19.28	PK	Vertical
7310.74	33.92	43.50	11.40	35.50	3.40	37.32	54.00	-16.68	AV	Vertical
7310.93	51.40	43.50	11.40	35.50	3.40	54.80	74.00	-19.20	PK	Horizontal
7310.93	32.68	43.50	11.40	35.50	3.40	36.08	54.00	-17.92	AV	Horizontal



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# 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
	,				Channel (2462 l		· · · /	. ,	, , , , , , , , , , , , , , , , , , ,	
3264.89	48.74	44.70	6.70	28.20	-9.80	38.94	74.00	-35.06	PK	Vertical
3264.89	39.17	44.70	6.70	28.20	-9.80	29.37	54.00	-24.63	AV	Vertical
3264.81	48.73	44.70	6.70	28.20	-9.80	38.93	74.00	-35.07	PK	Horizontal
3264.81	38.02	44.70	6.70	28.20	-9.80	28.22	54.00	-25.78	AV	Horizontal
4924.53	58.99	44.20	9.04	31.60	-3.56	55.43	74.00	-18.57	PK	Vertical
4924.53	39.52	44.20	9.04	31.60	-3.56	35.96	54.00	-18.04	AV	Vertical
4924.50	59.22	44.20	9.04	31.60	-3.56	55.66	74.00	-18.34	PK	Horizontal
4924.50	38.28	44.20	9.04	31.60	-3.56	34.72	54.00	-19.28	AV	Horizontal
5359.67	45.46	44.20	9.86	32.00	-2.34	43.12	74.00	-30.88	PK	Vertical
5359.67	36.99	44.20	9.86	32.00	-2.34	34.65	54.00	-19.35	AV	Vertical
5359.82	46.09	44.20	9.86	32.00	-2.34	43.75	74.00	-30.25	PK	Horizontal
5359.82	37.98	44.20	9.86	32.00	-2.34	35.64	54.00	-18.36	AV	Horizontal
7385.70	51.33	43.50	11.40	35.50	3.40	54.73	74.00	-19.27	PK	Vertical
7385.70	33.76	43.50	11.40	35.50	3.40	37.16	54.00	-16.84	AV	Vertical
7385.75	50.60	43.50	11.40	35.50	3.40	54.00	74.00	-20.00	PK	Horizontal
7385.75	32.89	43.50	11.40	35.50	3.40	36.29	54.00	-17.71	AV	Horizontal

#### Remark:

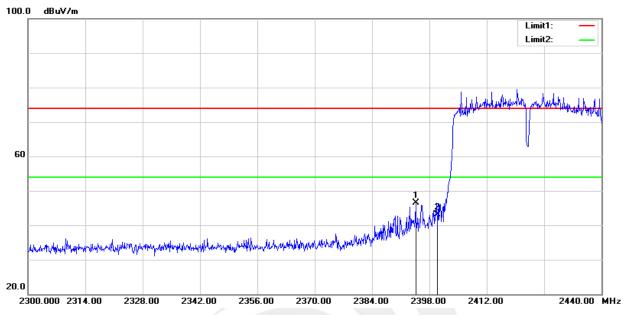
- 1. Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Scan with 802.11b, 802.11g, 802.11n (HT-20), 802.11n (HT-40) the worst case is 802.11b. Emission Level = Reading + Factor Margin = Limit Emission Leve
- 3. The frequency emission of peak points that did not show above the forms are at least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



# 3.2.6 TEST RESULTS (Band edge Requirements)

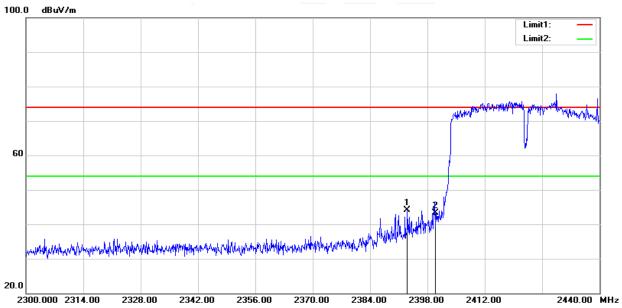
# 802.11n(HT40)-Low

# Horizontal



Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(Db/m)	(dBuV/m)	(dBuV/m)	(dB)	
2394.640	48.18	-1.73	46.45	74.00	-27.55	peak
2400.000	44.87	-1.69	43.18	74.00	-30.82	peak

# Vertical



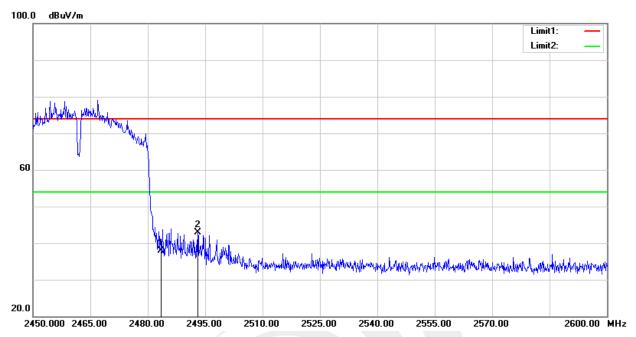
Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(Db/m)	(dBuV/m)	(dBuV/m)	(dB)	
2393.100	45.77	-1.73	44.04	74.00	-29.96	peak
2400.000	45.03	-1.69	43.34	74.00	-30.66	peak





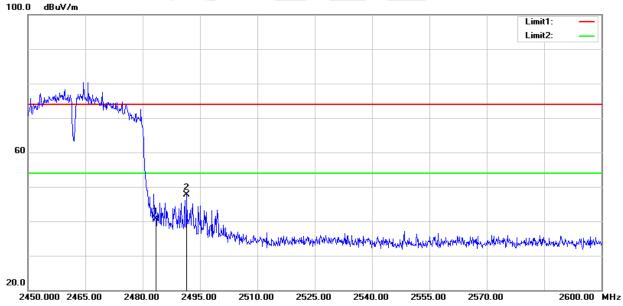
## 802.11nH20 -High

#### Horizontal



Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
2483.500	39.11	-1.20	37.91	74.00	-36.09	peak
2493.050	44.11	-1.16	42.95	74.00	-31.05	peak

## Vertical



Frequency	Reading	Correct	Result	Limit	Margin	Remark
(MHz)	(dBuV)	Factor(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
2483.500	41.87	-1.20	40.67	74.00	-33.33	peak
2491.550	48.78	-1.16	47.62	74.00	-26.38	peak

Note: 802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40) all have been test, the worst case is low channel of 802.11nH40 and high channel of 802.11nH20, this report only show the worst case.



#### 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

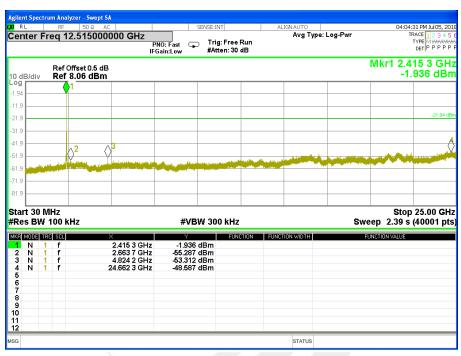
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



#### 4.6 TEST RESULTS

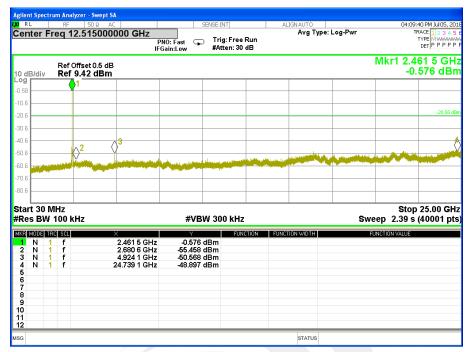
Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V From Battery	Test Mode:	TX b Mode /CH01, CH06, CH11

CH 01





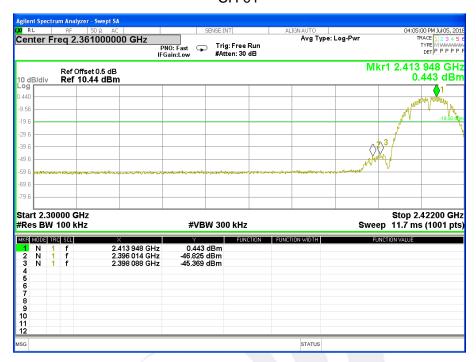






## Band edge

#### CH 01



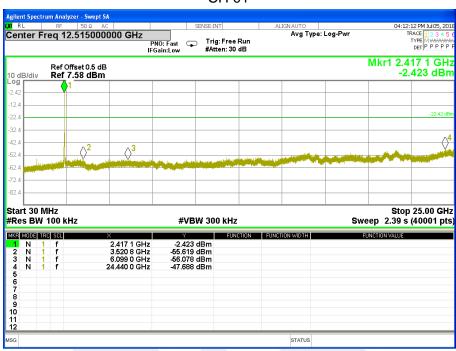


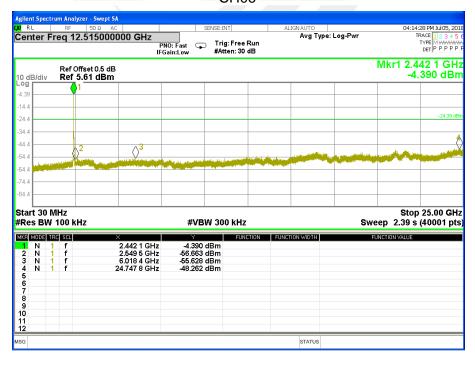


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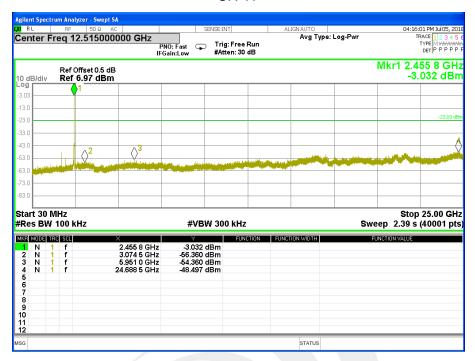
Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V From Battery	Test Mode:	TX g Mode /CH01, CH06, CH11

## CH 01





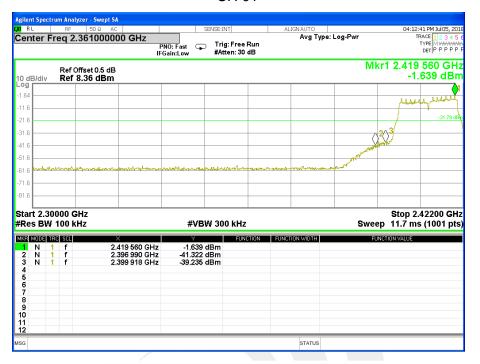


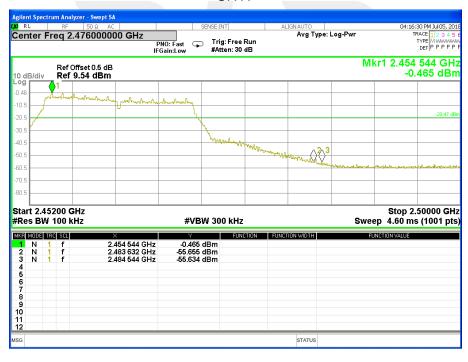




#### Band edge

#### CH 01



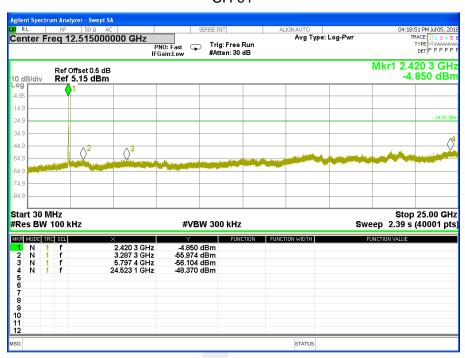


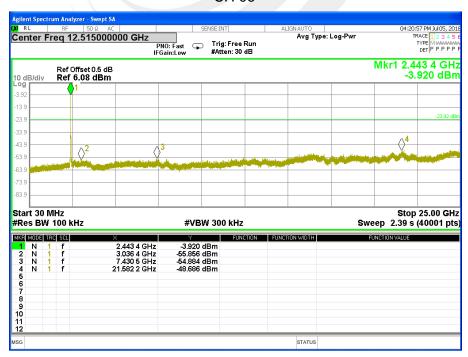


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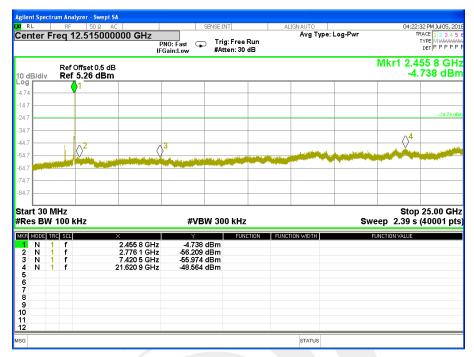
Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V From Battery	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

## CH 01





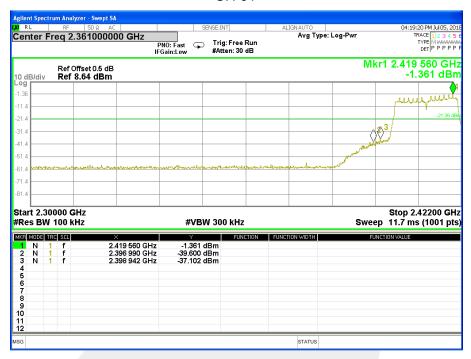






## Band edge

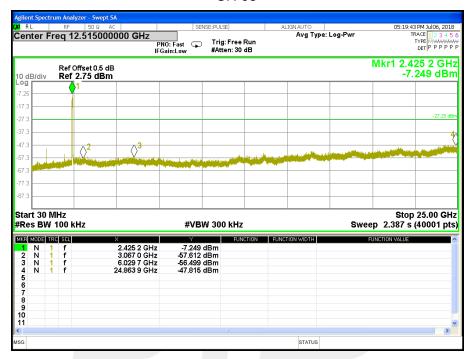
#### CH 01





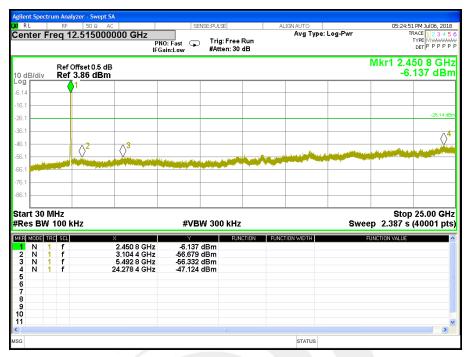


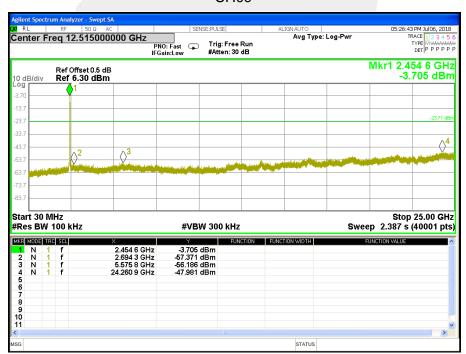
Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V From Battery	Test Mode:	TX n Mode(40M) /CH03, CH06, CH09





#### CH06

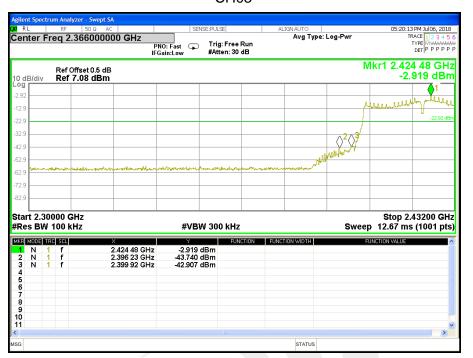






#### Band edge

#### **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  $\geq$  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

EUT	SPECTRUM
	ANALYZER

#### 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:	<b>25</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V From Battery	Test Mode:	TX b Mode /CH01, CH06, CH11

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2412 MHz	-14.406	≤8	PASS
2437 MHz	-13.567	≤8	PASS
2462 MHz	-14.266	≤8	PASS











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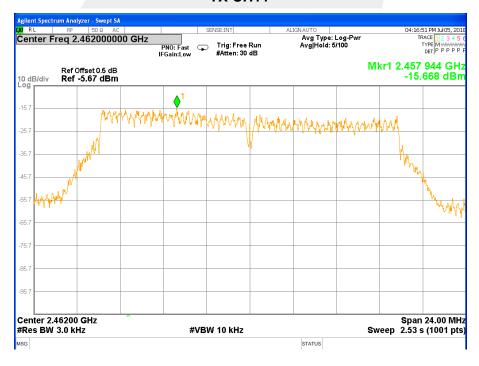
Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V From Battery	Test Mode:	TX g Mode /CH01, CH06, CH11

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2412 MHz	-16.459	≤8	PASS
2437 MHz	-15.873	≤8	PASS
2462 MHz	-15.668	≤8	PASS











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Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V From Battery	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2412 MHz	-15.727	8≥	PASS
2437 MHz	-17.558	≤8	PASS
2462 MHz	-14.921	≤8	PASS











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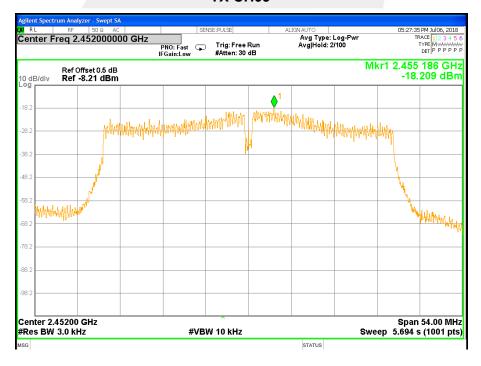
Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V From Battery	Test Mode:	TX n Mode(40M) /CH03, CH06, CH09

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
2422 MHz	-18.028	≤8	PASS
2437 MHz	-19.225	≤8	PASS
2452 MHz	-18.209	≤8	PASS













#### 6. BANDWIDTH TEST

#### 6.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	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.

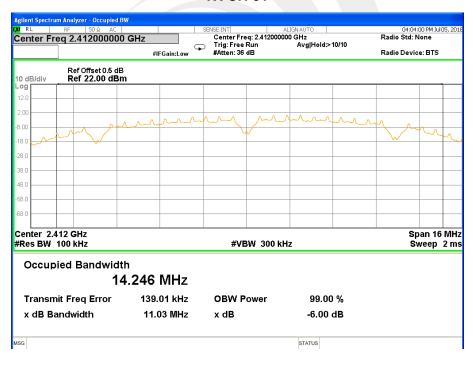


#### 6.6 TEST RESULTS

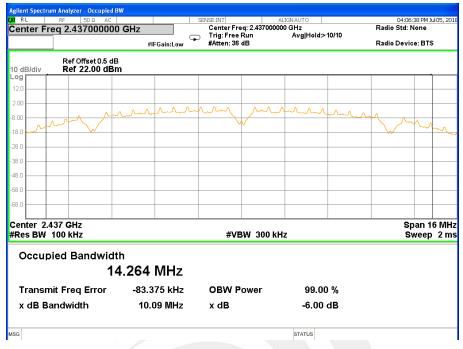
Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V From Battery	Test Mode:	TX b Mode /CH01, CH06, CH11

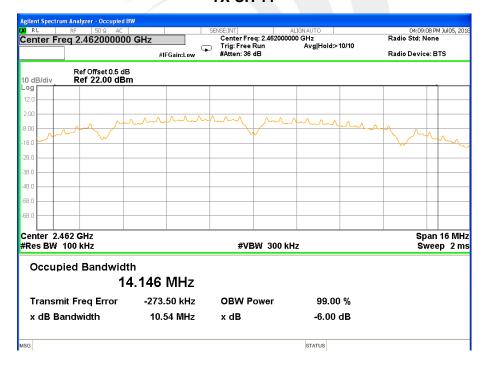
Remark: PEAK DETECTOR IS USED

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	11.03	≥500KHz	PASS
2437 MHz	10.09	≥500KHz	PASS
2462 MHz	10.54	≥500KHz	PASS







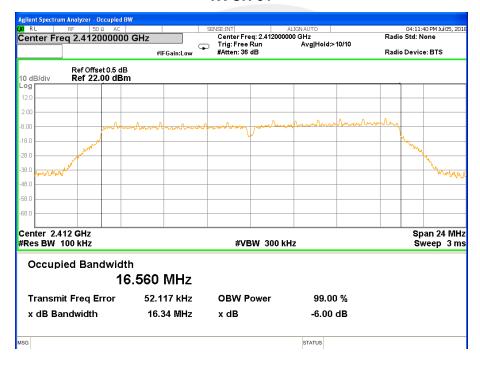




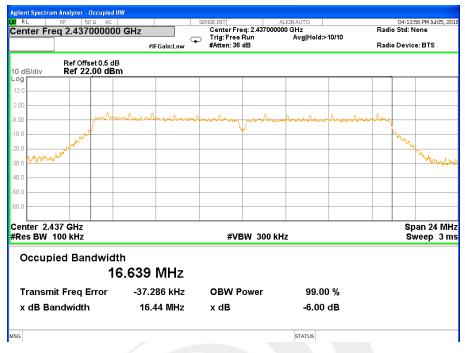
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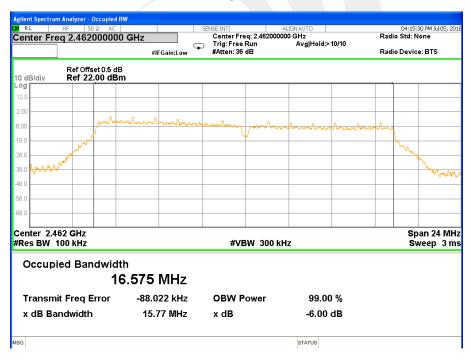
Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V From Battery	Test Mode:	TX g Mode /CH01, CH06, CH11

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	16.34	≥500KHz	PASS
2437 MHz	16.44	≥500KHz	PASS
2462 MHz	15.77	≥500KHz	PASS







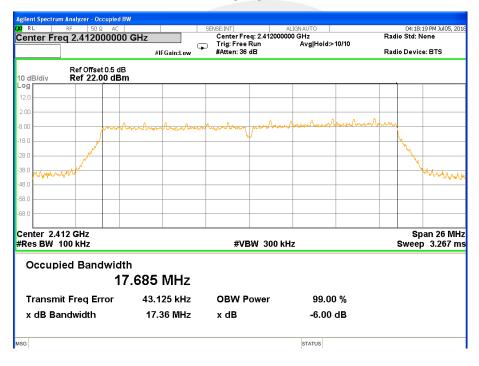




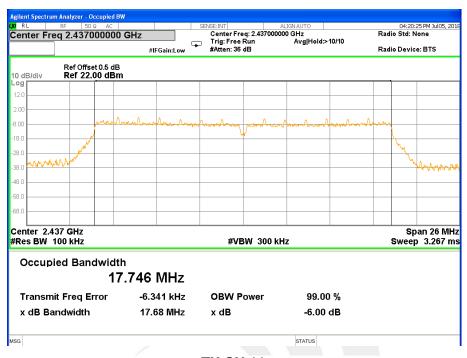
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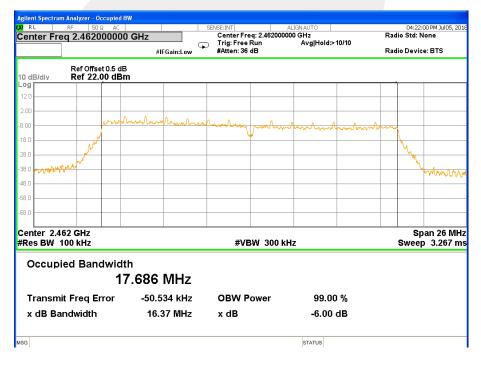
Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V From Battery	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2412 MHz	17.36	≥500KHz	PASS
2437 MHz	17.68	≥500KHz	PASS
2462 MHz	16.37	≥500KHz	PASS







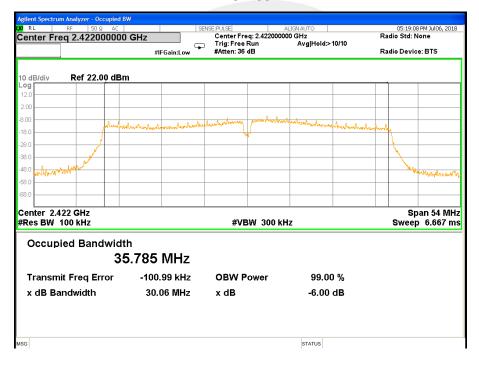




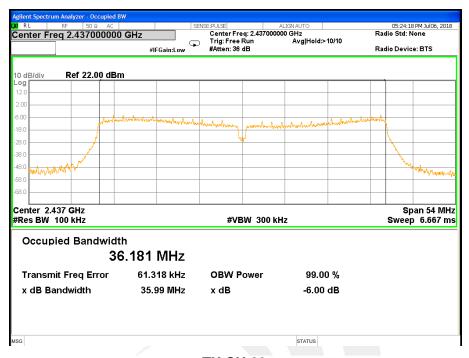
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Temperature:	<b>25</b> ℃	Relative Humidity:	60%
Test Voltage:	DC 3.7V From Battery	Test Mode:	TX n Mode(40M) /CH03, CH06, CH09

Frequency	6dB Bandwidth (MHz)	Channel Separation (KHz)	Result
2422 MHz	30.06	≥500KHz	PASS
2437 MHz	35.99	≥500KHz	PASS
2452 MHz	27.55	≥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 Meter

## 7.3 DEVIATION FROM STANDARD No deviation.

#### 7.4 TEST SETUP

EUT	Power meter

#### 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:	25 ℃	Relative Humidity:	60%
Test Voltage: DC 3.7V From Battery			

TX 802.11b Mode				
Test	Frequency	Conducted Output Power		LIMIT
Channel	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH01	2412	8.75	7.65	30
CH06	2437	8.33	7.23	30
CH11	2462	8.97	7.87	30

TX 802.11g Mode				
Test	Test Frequency Conducted Output Power		LIMIT	
Channel	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH01	2412	8.66	7.56	30
CH06	2437	8.50	7.40	30
CH11	2462	8.14	7.04	30

TX 802.11n20 Mode				
Test Frequency		Conducted	Output Power	LIMIT
Channel	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH01	2412	7.76	5.66	30
CH06	2437	8.31	6.21	30
CH11	2462	7.19	5.09	30

TX 802.11n40 Mode				
Test	Frequency	Conducted Output Power		LIMIT
Channel	(MHz)	Peak(dBm)	AVG(dBm)	dBm
CH03	2422	7.44	5.34	30
CH06	2437	7.33	5.23	30
CH09	2452	6.90	4.80	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

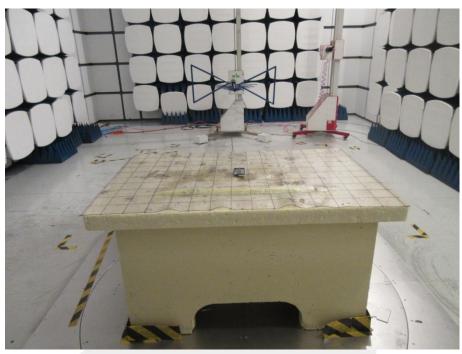
The EUT antenna is PIFA Antenna. It comply with the standard requirement.

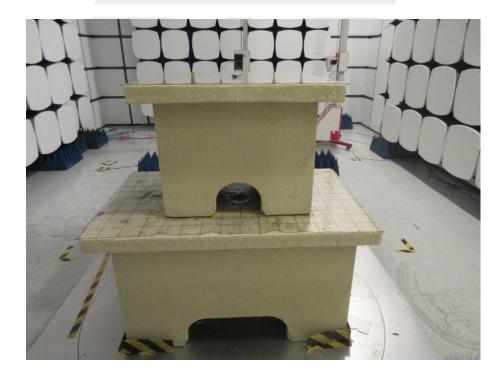




## APPENDIX - PHOTOS OF TEST SETUP









## **Conducted Measurement Photos**



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