

FCC TEST REPORT

for

ASKA ELECTRONICS CO., LIMITED

Bluetooth headset

Model Number: F6

FCC ID: 2ACXHF6

Prepared for : ASKA ELECTRONICS CO., LIMITED

Address : ROOM A 11/F, HO LEE COMMERCIAL BUILDING 38-44  
D' AGUILAR STREET CENTRAL HK

Prepared by : Keyway Testing Technology Co., Ltd.

Address : Building 1, Baishun Industrial Zone, Zhangmutou Town,  
Dongguan, Guangdong, China

Tel: 86-769-8718 2258

Fax: 86-769-8718 1058

Report No. : 15KWE103121F

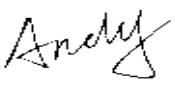
Date of Test : Oct. 19~22, 2015

Date of Report : Oct. 23, 2015

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# Keyway Testing Technology Co., Ltd.

<b>Applicant:</b>	ASKA ELECTRONICS CO., LIMITED		
<b>Address:</b>	ROOM A 11/F, HO LEE COMMERCIAL BUILDING 38-44 D' AGUILAR STREET CENTRAL HK		
<b>Manufacturer:</b>	ASKA ELECTRONICS CO., LTD.		
<b>Address:</b>	3F, BUILDING 19#, DALINGBIAN ROAD, SHAHU COMMUNITY, TANGXIA TOWN, DONGGUAN		
<b>E.U.T:</b>	Bluetooth headset		
<b>Model Number:</b>	F6		
<b>Trade Name:</b>	ASKA	<b>Serial No.:</b>	-----
<b>Date of Receipt:</b>	Oct. 19, 2015	<b>Date of Test:</b>	Oct.19~22, 2015
<b>Test Specification:</b>	FCC Part 15, Subpart C Section 15.247: 2014 ANSI C63.10:2013 KDB558074 D01 DTS Meas Guidance v03r02		
<b>Test Result:</b>	The equipment under test was found to be compliance with the requirements of the standards applied.		
<b>Issue Date: Oct. 23, 2015</b>			
Tested by:	Reviewed by:	Approved by:	
			
Daisy Chen / Engineer	Andy Gao / Supervisor	Jade Yang / Supervisor	
<b>Other Aspects:</b>	None.		
Abbreviations: OK/P=passed      fail/F=failed      n.a/N=not applicable      E.U.T=equipment under tested			
This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Keyway Testing Technology Co., Ltd.			

## 1. TEST SUMMARY

Test Items	Test Requirement	Result
Conducted Emissions	15.207	PASS
Radiated Emissions	15.205(a) 15.209 15.247(d)	PASS
6dB&99% Bandwidth	15.247(a)(2)	PASS
Power density	15.247(e)	PASS
Maximum Peak Output Power	15.247(b)(3)	PASS
Emissions from out of band	15.247(d)	PASS
Antenna Requirement	15.203	PASS

## 2.GENERAL PRODUCT INFORMATION

### 2.1. Product Function

Refer to Technical Construction Form and User Manual.

### 2.2. Description of Device (EUT)

Product Name:	Bluetooth headset
Model No.:	F6
Operation Frequency:	BT: 2402MHz~2480MHz
Channel numbers:	BT: 40 Channels
Modulation technology:	BT: GFSK
Antenna Type:	PCB
Antenna gain:	1.0dBi
Power supply:	DC 3.7V form battery
Adapter	N/A

## 2.3. Independent Operation Modes

The basic operation modes are:

2.3.1. EUT work WiFi TX mode, and frequency as below:

Channel	Frequency
CH00	2402MHz
CH19	2440MHz
CH39	2480MHz

Remark: According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup”

## 2.4. TEST SITES

### 2.4.1. Test Facilities

Lab Qualifications : Certificated by Industry Canada  
Registration No.: 9868A  
Date of registration: December 8, 2011

Certificated by FCC, USA  
Registration No.: 370994  
Date of registration: February 21, 2012

Certificated by CNAS China  
Registration No.: CNAS L5783  
Date of registration: August 8, 2012

## 2.5. List of Test and Measurement Instruments

### 2.5.1. For conducted emission at the mains terminals test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCI	101156	Apr. 27,15	Apr. 27,16
Artificial Mains Network	Rohde&Schwarz	ENV216	101315	Apr. 27,15	Apr. 27,16
Artificial Mains Network (AUX)	Rohde&Schwarz	ENV216	101314	Apr. 27,15	Apr. 27,16
RF Cable	FUJIKURA	3D-2W	944 Cable	Apr. 27,15	Apr. 27,16

### 2.5.2. For radiated emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESCI	101156	Apr. 27,15	Apr. 27,16
System Simulator	Agilent	E5515C	GB43130245	Apr. 27,15	Apr. 27,16
Power Splitter	Weinschel	1506A	NW425	Apr. 27,15	Apr. 27,16
Bilog Antenna	ETS-LINDGREEN	3142D	135452	Apr. 27,15	Apr. 27,16
Spectrum Analyzer	Agilent	E4411B	MY4511304	Apr. 27,15	Apr. 27,16
Spectrum Analyzer	R&S	FSV40	132.1.3008K39 -100967	Apr. 27,15	Apr. 27,16
3m Semi-anechoic Chamber	ETS-LINDGREEN	966	KW01	Apr. 27,15	Apr. 27,16
Signal Amplifier	SONOMA	310	187016	Apr. 27,15	Apr. 27,16
Signal Amplifier	Agilent	8449B	3008A00251	Apr. 27,15	Apr. 27,16
RF Cable	IMRO	IMRO-400	966 Cable 1#	N/A	N/A
MULTI-DEVICE Controller	ETS-LINDGREEN	2090	126913	N/A	N/A
Horn Antenna	DAZE	ZN30701	11003	Apr. 27,15	Apr. 27,16
Horn Antenna	SCHWARZBECK	BBHA9170	9170-068	Apr. 27,15	Apr. 27,16
Spectrum Analyzer	Agilent	8593E	3911A04271	Apr. 27,15	Apr. 27,16
Spectrum Analyzer	Agilent	E4408B	MY44211125	Apr. 27,15	Apr. 27,16
Signal Amplifier	DAZE	ZN3380C	11001	Apr. 27,15	Apr. 27,16
High Pass filter	Micro	HPM50111	324216	Apr. 27,15	Apr. 27,16
Filter	COM-MW	ZBSF-C836.5-25-X	KW032	Apr. 27,15	Apr. 27,16
Filter	COM-MW	ZBSF-C1747.5-75-X2	KW035	Apr. 27,15	Apr. 27,16
Filter	COM-MW	ZBSF-C1880-60-X2	KW037	Apr. 27,15	Apr. 27,16
DC Power Supply	LongWei	PS-305D	010964729	Apr. 27,15	Apr. 27,16
Constant temperature and humidity box	GF	GTH-800-40-1P	MAA9906-005	Apr. 27,15	Apr. 27,16
Universal radio communication tester	Rohde&Schwarz	CMU200	3215420	Apr. 27,15	Apr. 27,16
Splitter	Agilent	11636B	0025164	Apr. 27,15	Apr. 27,16

### 3. TEST SET-UP AND OPERATION MODES

#### 3.1. Principle of Configuration Selection

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the Operating Instructions.

#### 3.2. Block Diagram of Test Set-up

System Diagram of Connections between EUT and Simulators



#### 3.3. Test Operation Mode and Test Software

None.

#### 3.4. Special Accessories and Auxiliary Equipment

None.

#### 3.5. Countermeasures to Achieve EMC Compliance

None.

## 4. EMISSION TEST RESULTS

### 4.1. Conducted Emission at the Mains Terminals Test

#### 4.1.1. Limit 15.207 limits

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

#### 4.1.2. Test Setup

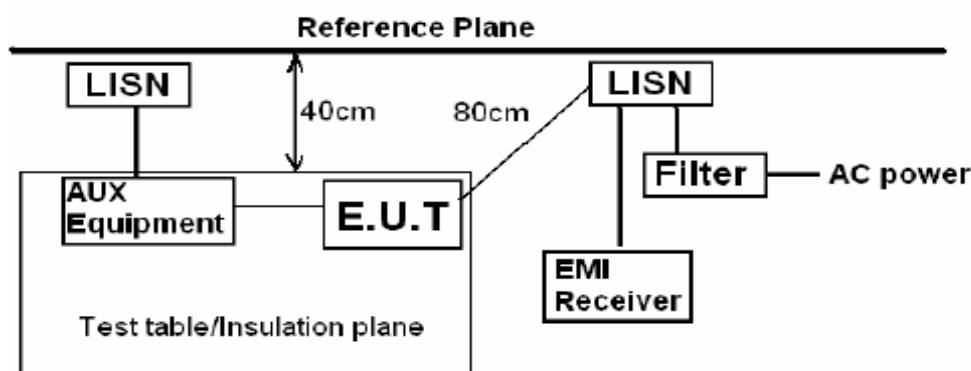
The EUT was put on a wooden table which was 0.8 m high above the ground and connected to the AC mains through the Artificial Mains Network (AMN). Where the mains cable supplied by the manufacture was longer than 0.8 m, the excess was folded back and forth parallel to the cable at the centre so as to form a bundle no longer than 0.4 m.

The EUT was kept 0.4 m from any other earthed conducting surface. Both sides of AC line were checked to find out the maximum conducted emission levels according to the test procedure during the conducted emission test.

The frequency range from 150 kHz to 30 MHz was investigated.

The bandwidth of the test receiver was set at 9 kHz.

Pretest for all mode, The test data of the worst case condition(s) was reported on the following page.



Remark:

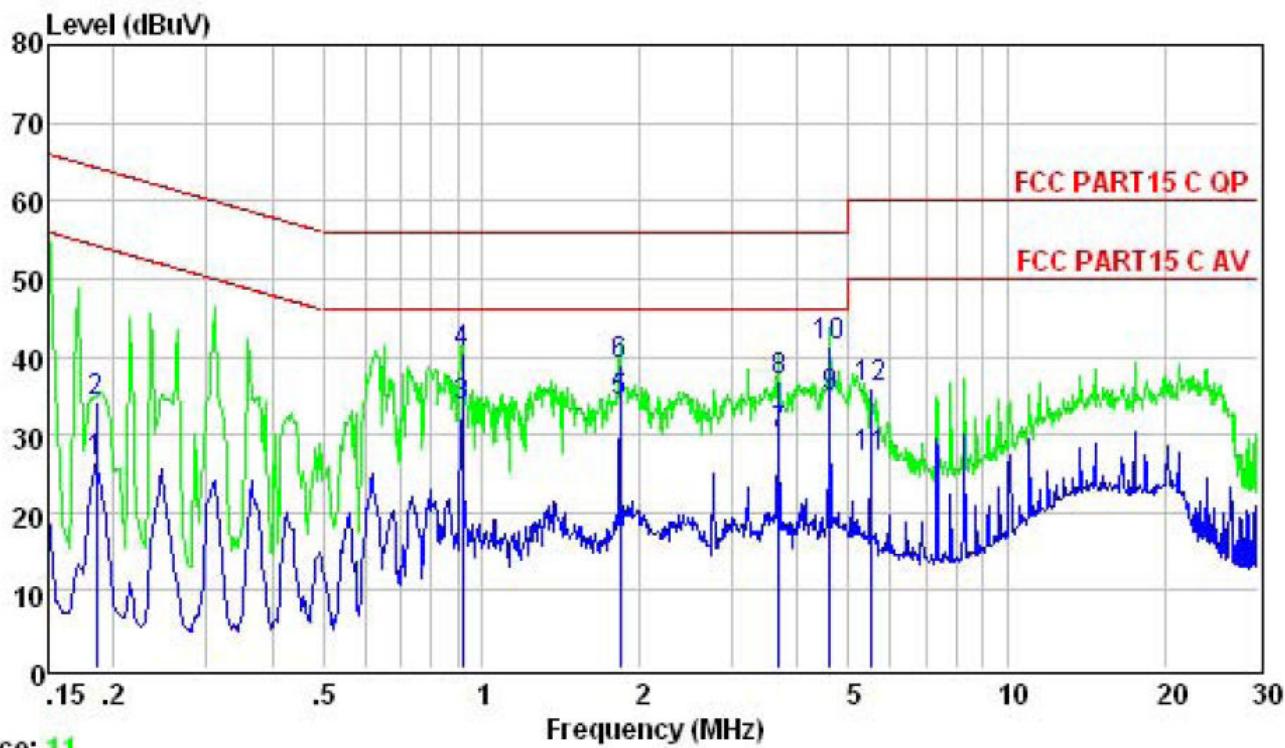
E.U.T: Equipment Under Test

LISN: Line Impedance Stabilization Network

Test table height=0.8m

**120V/60Hz**

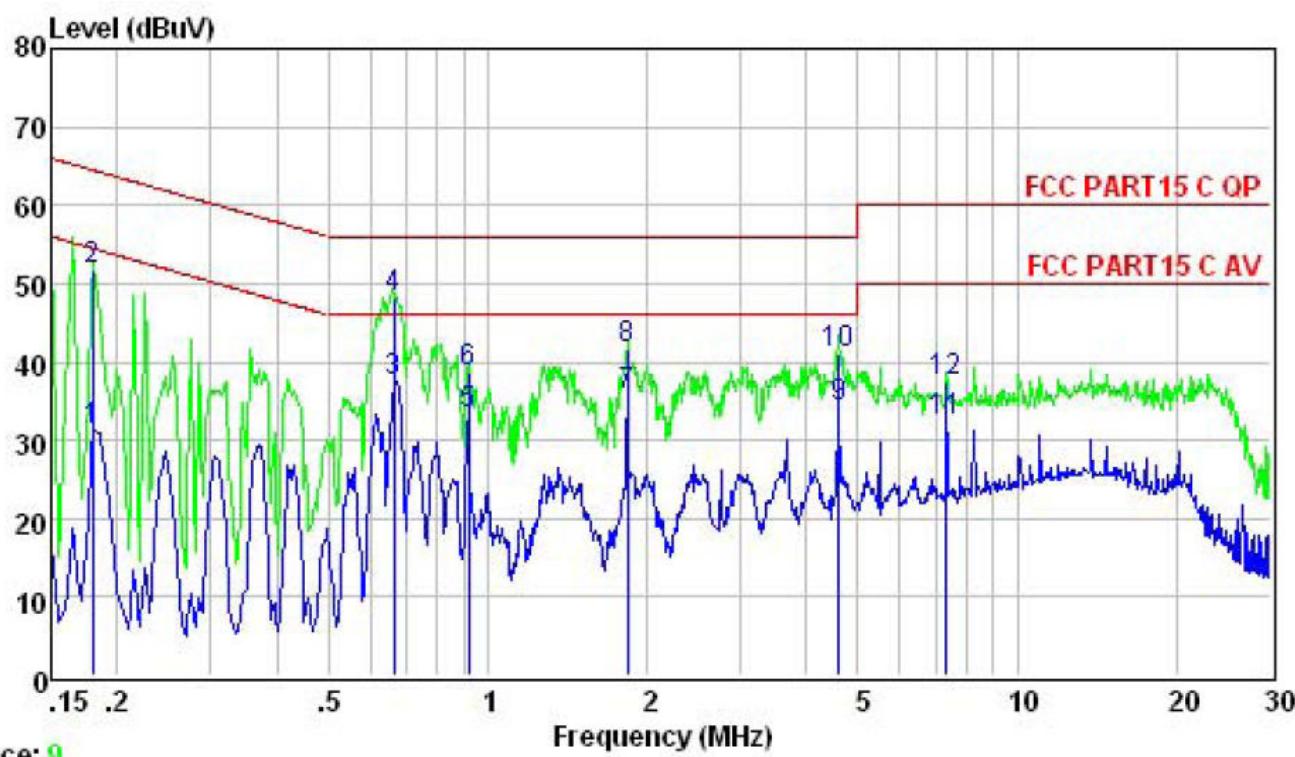
Line



Trace: 11

	Freq	Level	Limit	Over	Remark
			Line	Limit	
	MHz	dBuV	dBuV	dB	
1	0.185	26.52	64.24	-37.72	Average
2	0.185	34.26	64.24	-29.98	QP
3	0.918	33.65	56.00	-22.35	Average
4	0.918	40.59	56.00	-15.41	QP
5	1.839	34.14	56.00	-21.86	Average
6	1.839	38.92	56.00	-17.08	QP
7	3.681	30.11	56.00	-25.89	Average
8	3.681	36.78	56.00	-19.22	QP
9	4.598	34.71	56.00	-21.29	Average
10	4.598	41.36	56.00	-14.64	QP
11	5.505	27.20	60.00	-32.80	Average
12	5.505	35.96	60.00	-24.04	QP

Neutral



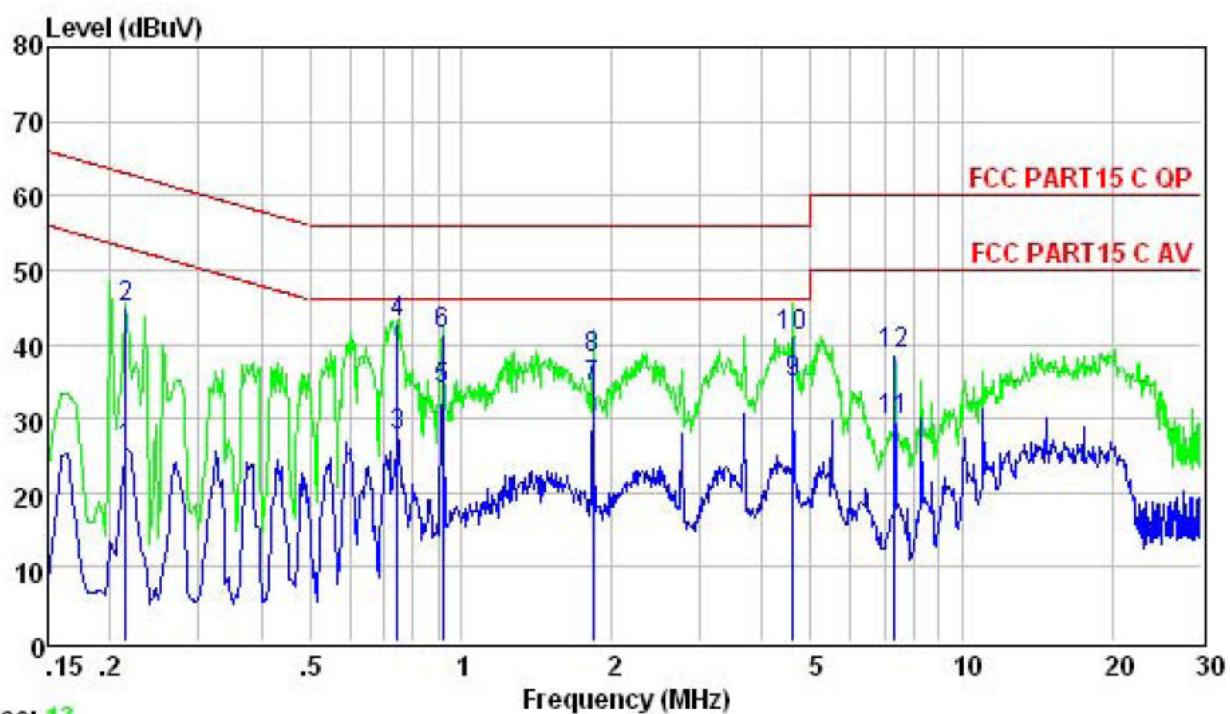
Trace: 9

FCC ID: 2ACXHF6

	Freq	Level	Limit	Over	
	MHz	dBuV	dBuV	dB	Remark
1	0.180	31.09	64.50	-33.41	Average
2	0.180	51.76	64.50	-12.74	QP
3	0.665	37.49	56.00	-18.51	Average
4	0.665	48.25	56.00	-7.75	QP
5	0.918	33.42	56.00	-22.58	Average
6	0.918	38.69	56.00	-17.31	QP
7	1.839	35.62	56.00	-20.38	Average
8	1.839	41.56	56.00	-14.44	QP
9	4.598	34.19	56.00	-21.81	Average
10	4.598	41.06	56.00	-14.94	QP
11	7.329	32.49	60.00	-27.51	Average
12	7.329	37.59	60.00	-22.41	QP

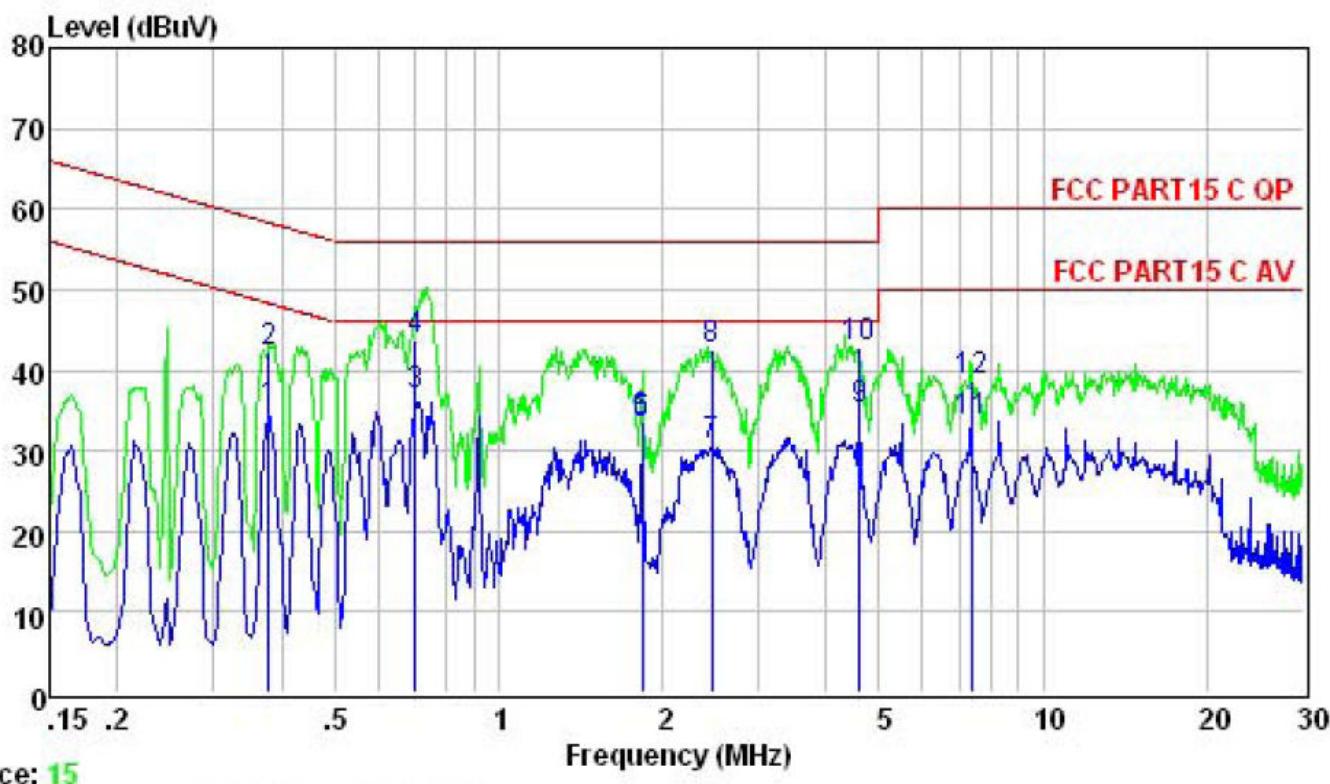
**240V/60Hz**

L



	Freq	Limit		Over Line Limit	Remark
		MHz	dBuV		
1	0.215	25.88	63.01	-37.13	Average
2	0.215	45.02	63.01	-17.99	QP
3	0.747	27.52	56.00	-28.48	Average
4	0.747	42.96	56.00	-13.04	QP
5	0.918	33.88	56.00	-22.12	Average
6	0.918	41.29	56.00	-14.71	QP
7	1.839	34.12	56.00	-21.88	Average
8	1.839	38.03	56.00	-17.97	QP
9	4.598	34.82	56.00	-21.18	Average
10	4.598	41.09	56.00	-14.91	QP
11	7.329	29.60	60.00	-30.40	Average
12	7.329	38.56	60.00	-21.44	QP

N



Freq	Level	Limit	Over	Remark
		Line	Limit	
MHz	dBuV	dBuV	dB	
1	0.379	35.04	58.30	-23.26 Average
2	0.379	42.36	58.30	-15.94 QP
3	0.705	36.90	56.00	-19.10 Average
4	0.705	43.69	56.00	-12.31 QP
5	1.839	33.44	56.00	-22.56 Average
6	1.839	33.69	56.00	-22.31 QP
7	2.461	30.59	56.00	-25.41 Average
8	2.461	42.38	56.00	-13.62 QP
9	4.598	35.02	56.00	-20.98 Average
10	4.598	42.78	56.00	-13.22 QP
11	7.368	33.74	60.00	-26.26 Average
12	7.368	38.76	60.00	-21.24 QP

## 4.2. Radiated Emission Test

### 4.2.1. Limit 15.209 limits

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		µV/m	dB(µV)/m
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(µV)/m (Peak) 54.0 dB(µV)/m (Average)	

### 4.2.2. Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
<sup>1</sup> 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	( <sup>2</sup> )

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

#### 4.2.3. Test setup

The EUT was placed on a turn table which was 0.8 m(above 1GHz, the table was 1.5m) above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m away from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.

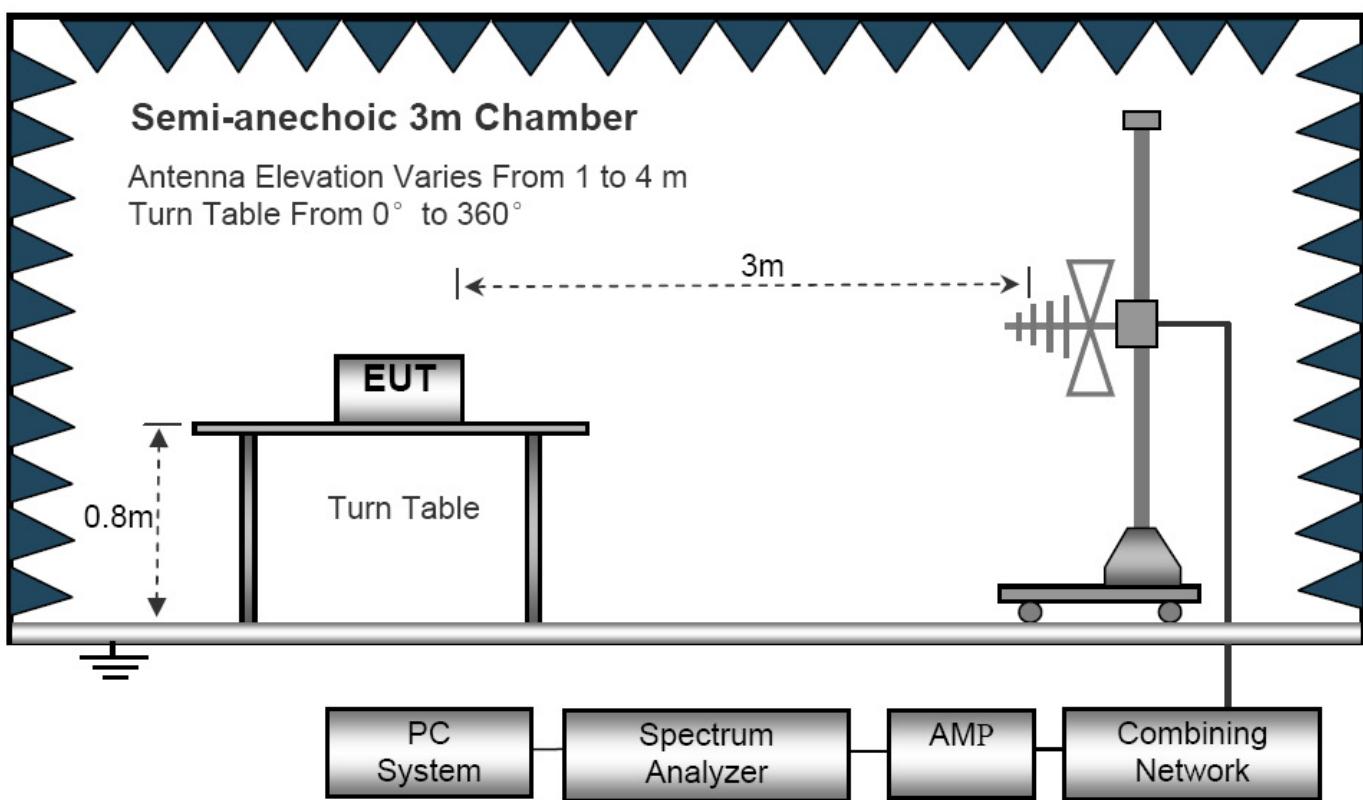
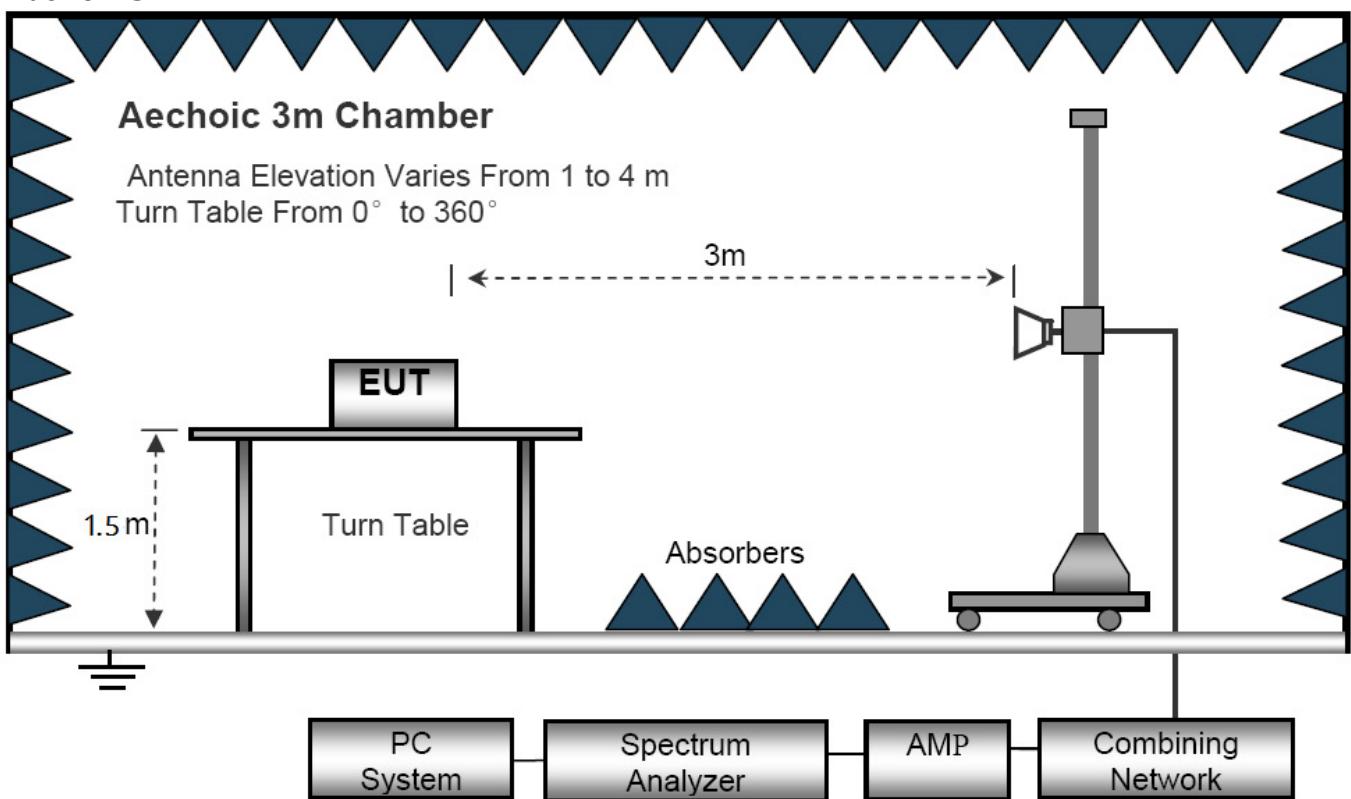
The EUT was tested in the Chamber Site. It was pre-scanned with a Peak detector from the spectrum, and all the final readings from the test receiver were measured with the Quasi-Peak detector.

The bandwidth of the EMI test receiver is set at 120kHz for frequency range from 30MHz to 1000 MHz.

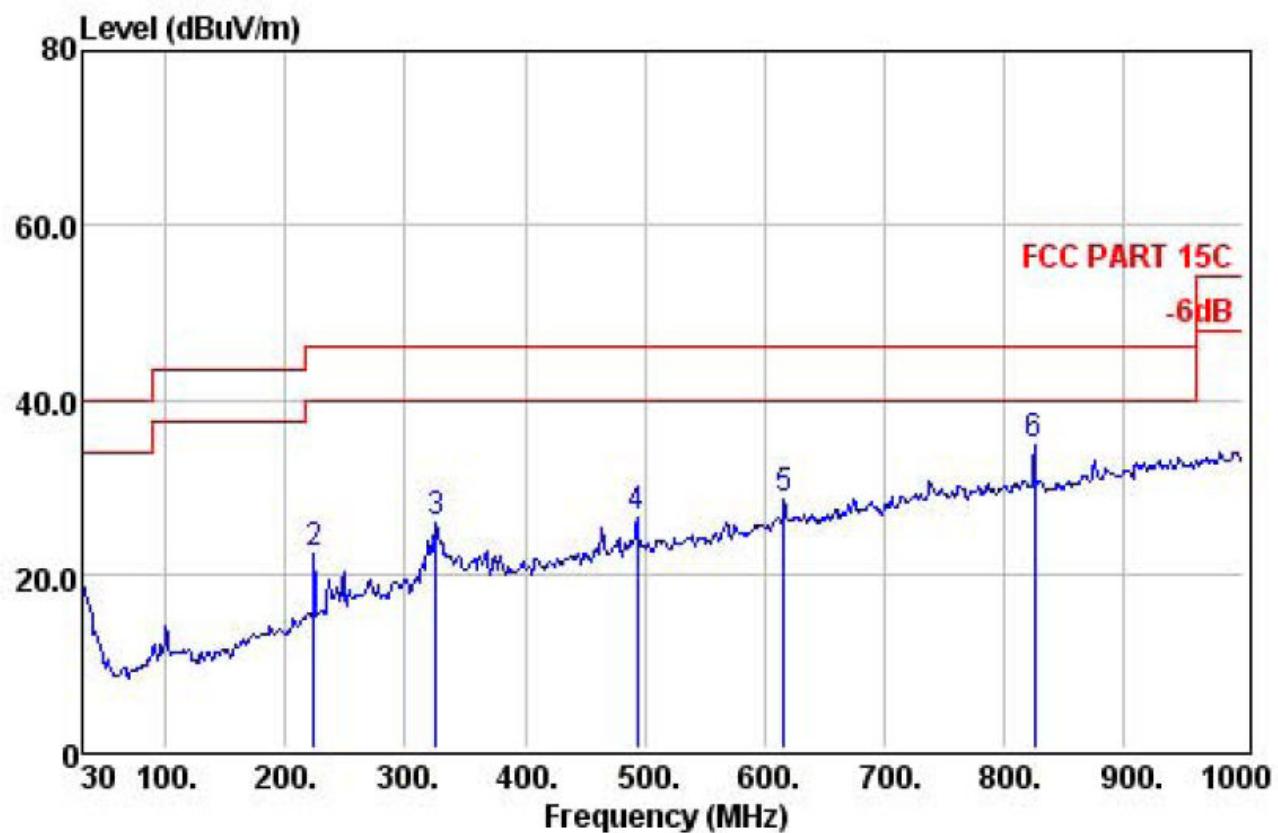
The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz, Both PK and AV measure, PK detector is used.

The frequency range from 30MHz to 10<sup>th</sup> harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

- Notes:
1. Emission Level = Antenna Factor + Cable Loss + Meter Reading+Preamp Factor.
  2. Measurement Uncertainty:  $\pm 3.2$  dB at a level of confidence of 95%.
  3. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
  4. For emissions below 1GHz, pretest for all mode, The test data of the worst case condition(s) was reported on the following pages.
  5. For Both PK and AV value above 1GHz, PK detector is used.

**Below 1GHz****Above 1GHz**

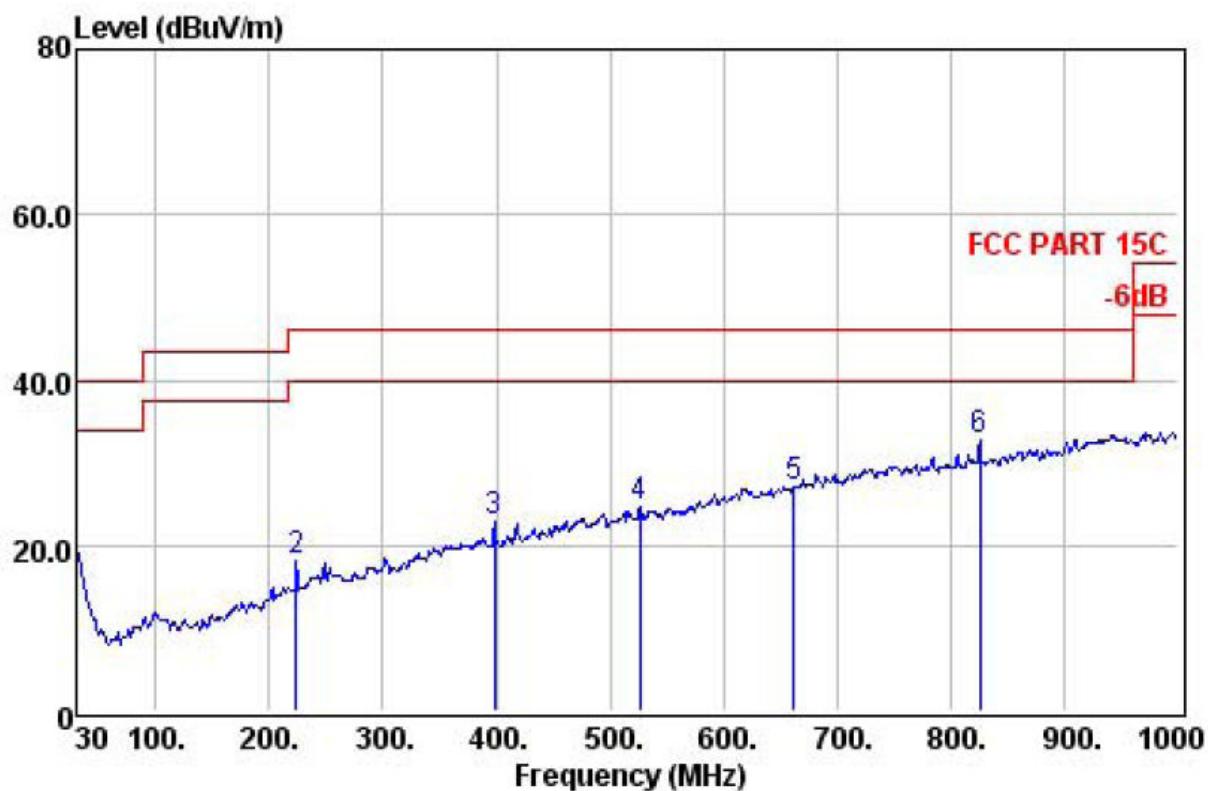
**Below 1GHz**  
**Horizontal**



	Preamp Freq	Read Level	Cable Loss	Limit Line	Over Limit	Over Remark
--	----------------	---------------	---------------	---------------	---------------	----------------

	MHz	dB	dBuV	dB	dBuV/m	dBuV/m	dB	
1	30.00	31.41	32.99	0.56	20.94	40.00	-19.06	QP
2	224.00	30.95	39.50	1.53	22.23	46.00	-23.77	QP
3	325.85	30.81	40.24	2.02	25.98	46.00	-20.02	QP
4	493.66	30.59	35.68	2.77	26.46	46.00	-19.54	QP
5	616.85	30.64	34.74	3.38	28.55	46.00	-17.45	QP
6	825.40	30.47	37.64	4.49	34.76	46.00	-11.24	QP

## Vertical



Freq	Preamp Factor	Read Level		Cable Loss		Limit Line	Over Limit	Remark
		MHz	dB	dBuV	dB	dBuV/m	dBuV/m	dB
1	30.00	31.41	32.17	0.56	20.12	40.00	-19.88	QP
2	224.00	30.95	35.36	1.53	18.09	46.00	-27.91	QP
3	398.60	30.63	34.73	2.37	22.76	46.00	-23.24	QP
4	526.64	30.72	33.26	2.94	24.70	46.00	-21.30	QP
5	662.44	30.81	32.53	3.69	27.11	46.00	-18.89	QP
6	825.40	30.47	35.56	4.49	32.68	46.00	-13.32	QP

**Above 1GHz**

<b>Frequency (MHz)</b>	<b>Reading (dB <math>\mu</math> V)</b>	<b>Factor (dB)</b>	<b>Corrected Amplitude (dB <math>\mu</math> V/m)</b>	<b>Limit (dB <math>\mu</math> V/m)</b>	<b>Margin (dB)</b>	<b>Remark</b>	<b>Polar (H/V)</b>
<b>low channel(2402MHz)</b>							
4804.000	47.21	10.12	57.33	74.00	-16.67	Pk	Vertical
4804.000	35.45	10.12	45.57	54.00	-8.43	AV	Vertical
7206.000	46.45	12.05	58.5	74.00	-15.50	Pk	Vertical
7206.000	32.21	12.05	44.26	54.00	-9.74	AV	Vertical
4804.000	42.13	10.12	52.25	74.00	-21.75	Pk	Horizontal
4804.000	31.32	10.12	41.44	54.00	-12.56	AV	Horizontal
7206.000	42.45	12.05	54.5	74.00	-19.50	Pk	Horizontal
7206.000	36.24	12.05	48.29	54.00	-5.71	AV	Horizontal
<b>Middle channel(2440MHz)</b>							
4880.000	54.13	10.42	64.55	74.00	-9.45	Pk	Vertical
4880.000	34.54	10.42	44.96	54.00	-9.04	AV	Vertical
7320.000	49.53	12.81	62.34	74.00	-11.66	Pk	Vertical
7320.000	33.24	12.81	46.05	54.00	-7.95	AV	Vertical
4880.000	52.52	10.42	62.94	74.00	-11.06	Pk	Horizontal
4880.000	34.52	10.42	44.94	54.00	-9.06	AV	Horizontal
7320.000	43.13	12.81	55.94	74.00	-18.06	Pk	Horizontal
7320.000	32.61	12.81	45.42	54.00	-8.58	AV	Horizontal
<b>High channel(2480MHz)</b>							
4960.000	49.34	10.48	59.82	74.00	-14.18	Pk	Vertical
4960.000	36.11	10.48	46.59	54.00	-7.41	AV	Vertical
7440.000	46.45	12.87	59.32	74.00	-14.68	Pk	Vertical
7440.000	31.31	12.87	44.18	54.00	-9.82	AV	Vertical
4960.000	42.45	10.48	52.93	74.00	-21.07	Pk	Horizontal
4960.000	35.24	10.48	45.72	54.00	-8.28	AV	Horizontal
7440.000	45.16	12.87	58.03	74.00	-15.97	Pk	Horizontal
7440.000	36.23	12.87	49.1	54.00	-4.9	AV	Horizontal

## 5. BAND EDGE COMPLIANCE TEST

### 5.1. Limits

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 30dB below the fundamental emissions, or comply with 15.209 limits.

### 5.2. Test setup

The EUT was placed on a turn table which was 1.5 m above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 m away from the receiving antenna which was mounted on an antenna tower. The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 m to 4 m for both horizontal and vertical polarizations.

The bandwidth of the Spectrum's VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure.

For conduct test, VBW is set at 300kHz and RBW is set at 100kHz for measurement.

Note: 1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

2. For Both PK and AV value above 1GHz, PK detector is used.

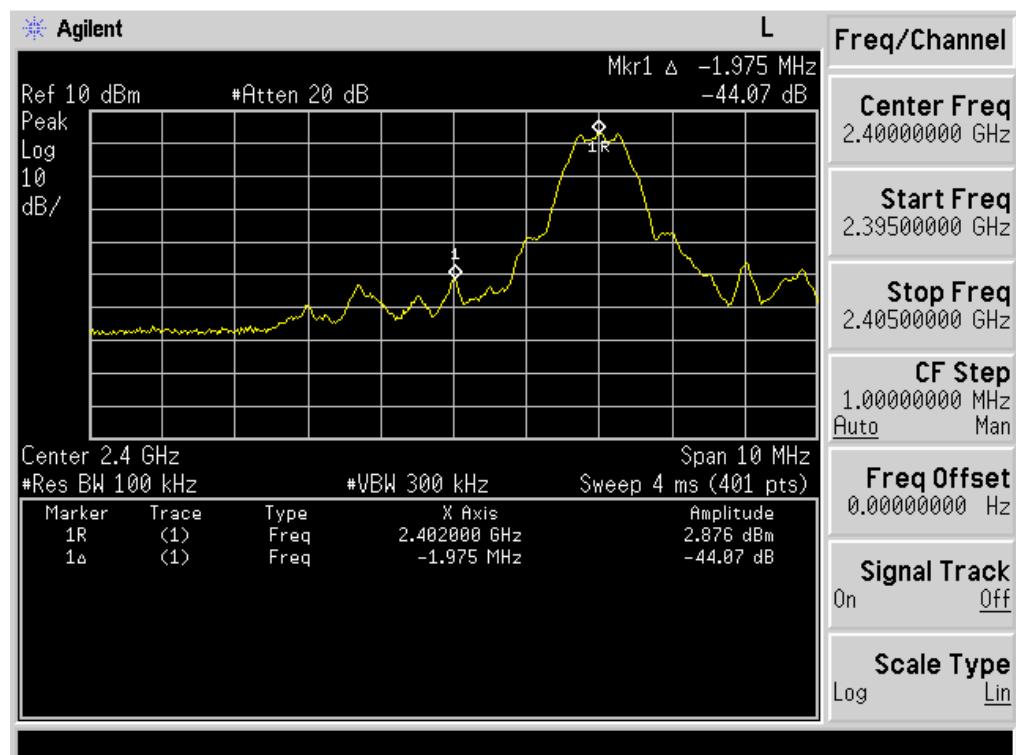
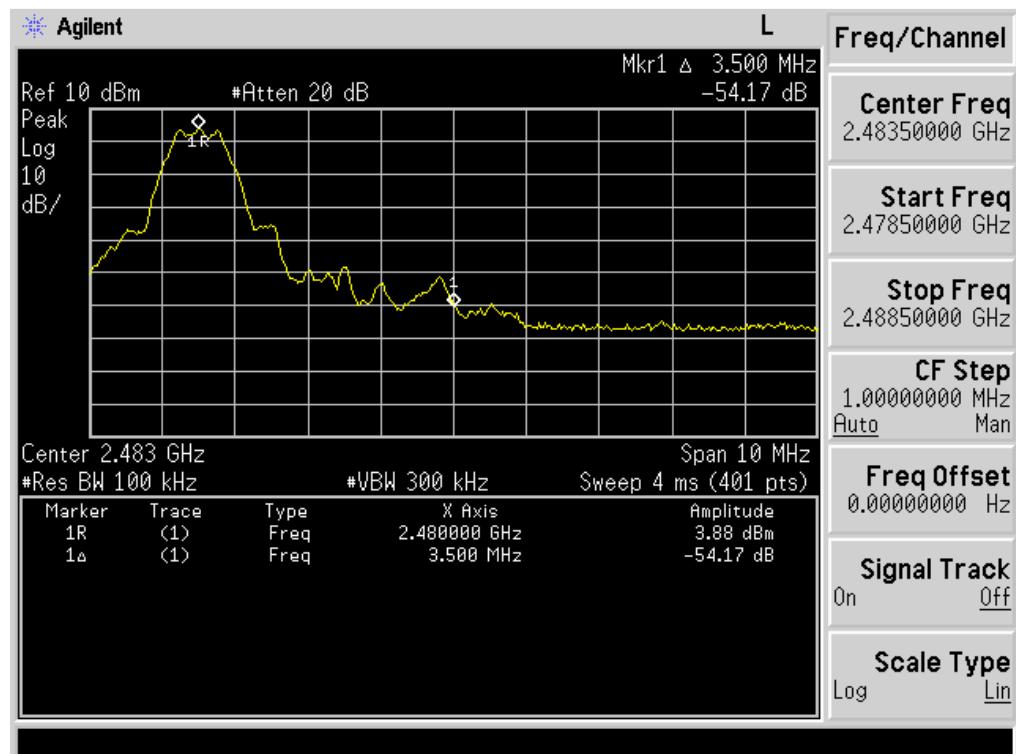
Remark: All emission out of band are more than 30dB lower than fundamental.

**For radiated test as follows:**

	Frequency (MHz)	Antenna polarization (H/V)	Emission (dBuV/m)	Band edge Limit (dBuV/m)		Result
				PK	PK	
	<2400	H	51.11	74.00	54.00	Pass
	<2400	V	52.03	74.00	54.00	Pass
	>2483.5	H	51.26	74.00	54.00	Pass
	>2483.5	V	50.31	74.00	54.00	Pass

If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.

Frequency Band	Delta Peak to band emission (dBc)	>Limit (dBc)	Result
Left-band	44.07	20	Pass
Right-band	54.17	20	Pass

**Left Side****Right Side**

## 6. 6DB OCCUPY BANDWIDTH

### 6.1. Limits

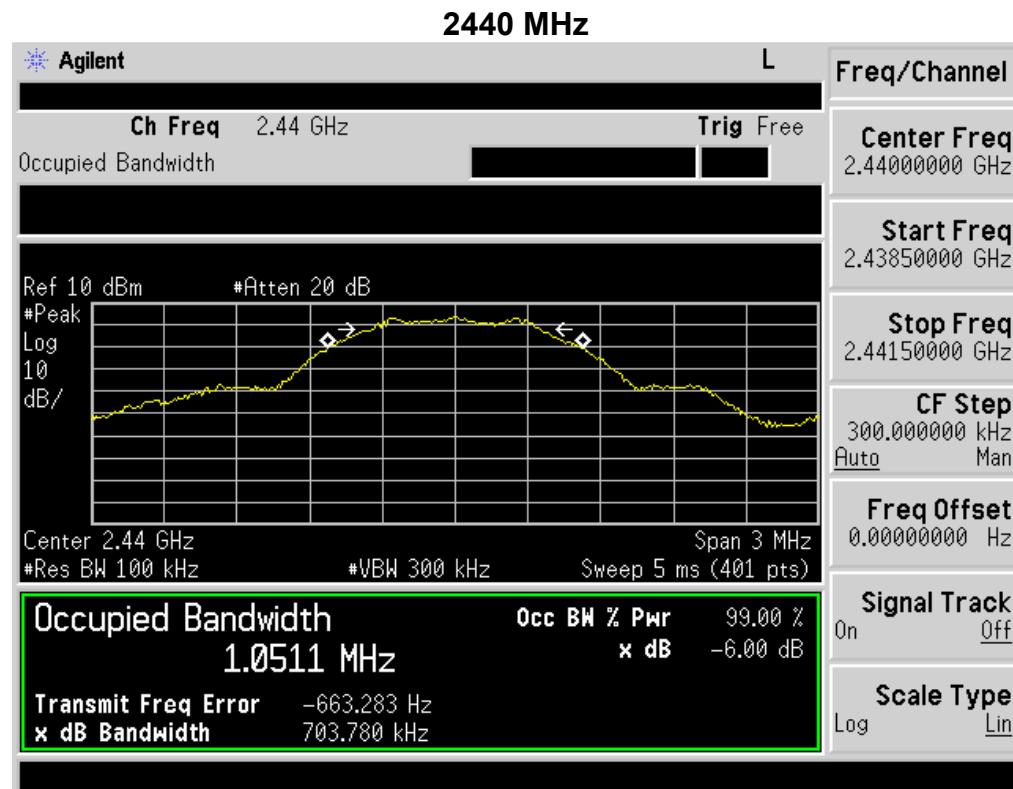
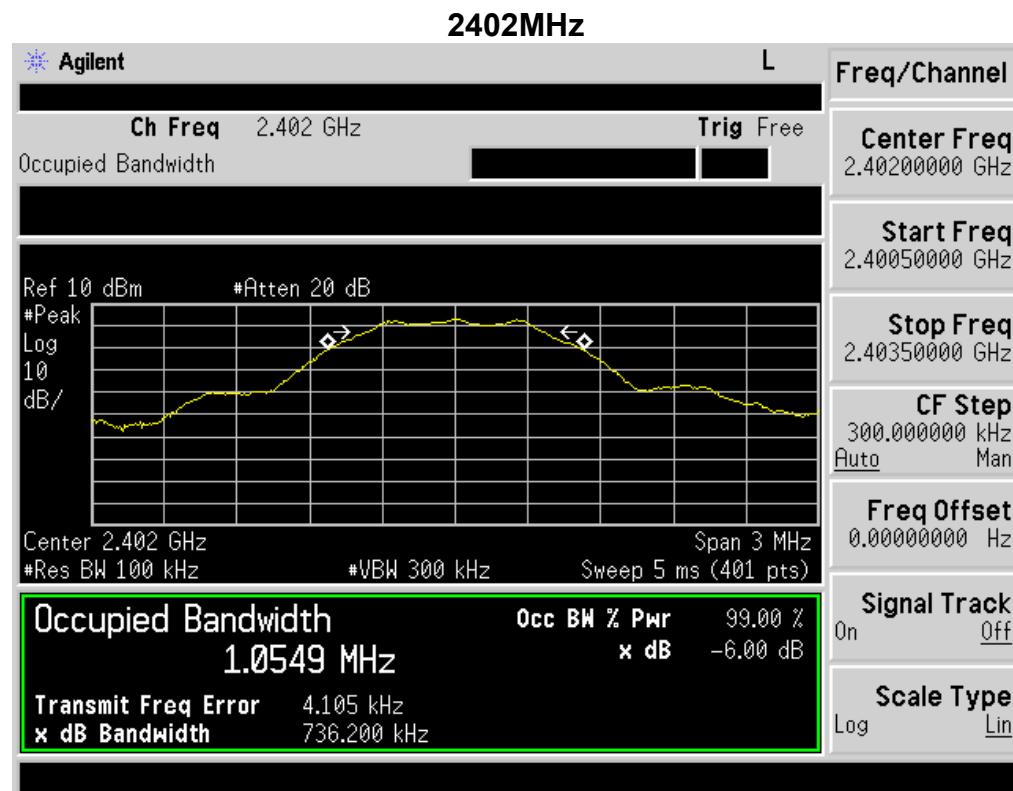
For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz  
Test data:

Channel Frequency (MHz)	6dB Bandwidth (KHz)	Limit (KHz)	Result
2402	736.200	500	Pass
2440	703.780	500	Pass
2480	741.092	500	Pass

### 6.2. TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW)  $\geq 3 \times$  RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

Test plot as follows:



2480 MHz



## 7. OUTPUT POWER TEST

### 7.1. Limits

For systems using digital modulation in the 2400~2483.5MHz, The output Power shall not exceed 1W (30dBm)

### 7.2. Test setup

1. The Transmitter output (antenna port) was connected to the power meter.
2. Turn on the EUT and power meter and then record the power value.
3. Repeat above procedures on all channels needed to be tested.

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

### 7.3. Test result

Frequency (MHz)	Maximum Conducted Output Power (dBm)	Limit (dBm)
2402	3.204	30
2440	3.698	30
2480	3.861	30

## 8. POWER SPECTRAL DENSITY TEST

### 8.1. Limits

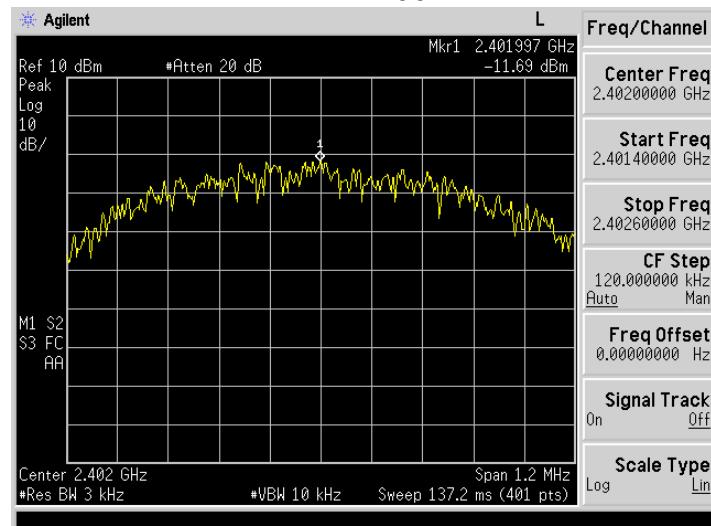
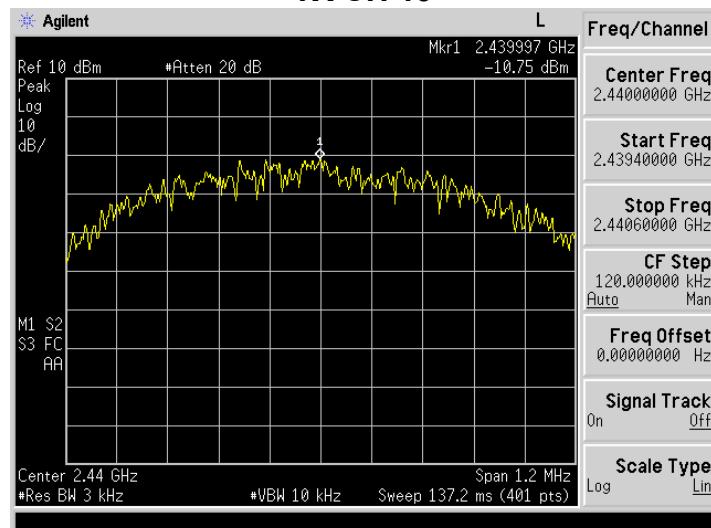
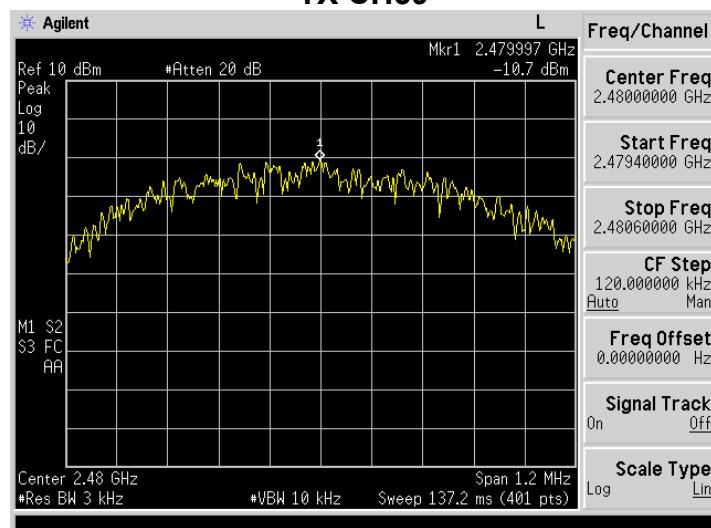
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

### 8.2. Test setup

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 RBW =3kHz.
4. Set the VBW  $\geq 3$  times 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.

### 8.3. Test result

Channel Frequency (MHz)	Power density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2402	-11.69	8	Pass
2440	-10.75	8	Pass
2480	-10.70	8	Pass

**TX CH00****TX CH 19****TX CH39**

## 9. ANTENNA REQUIREMENTS

### 9.1. Limits

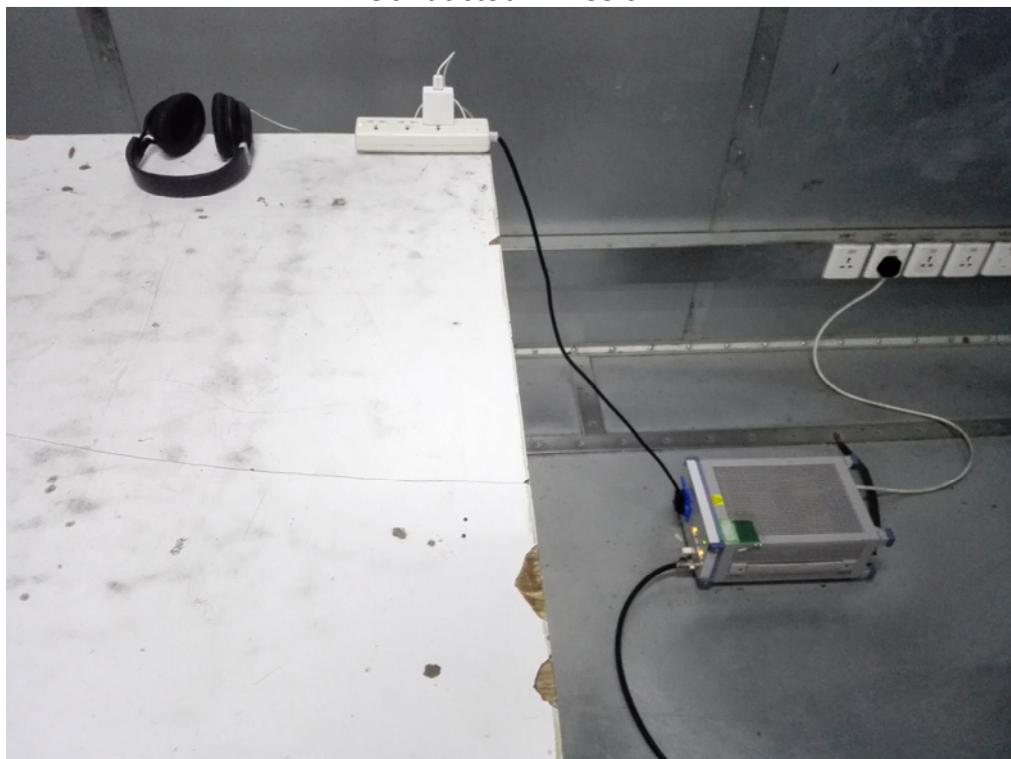
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### 9.2. Result

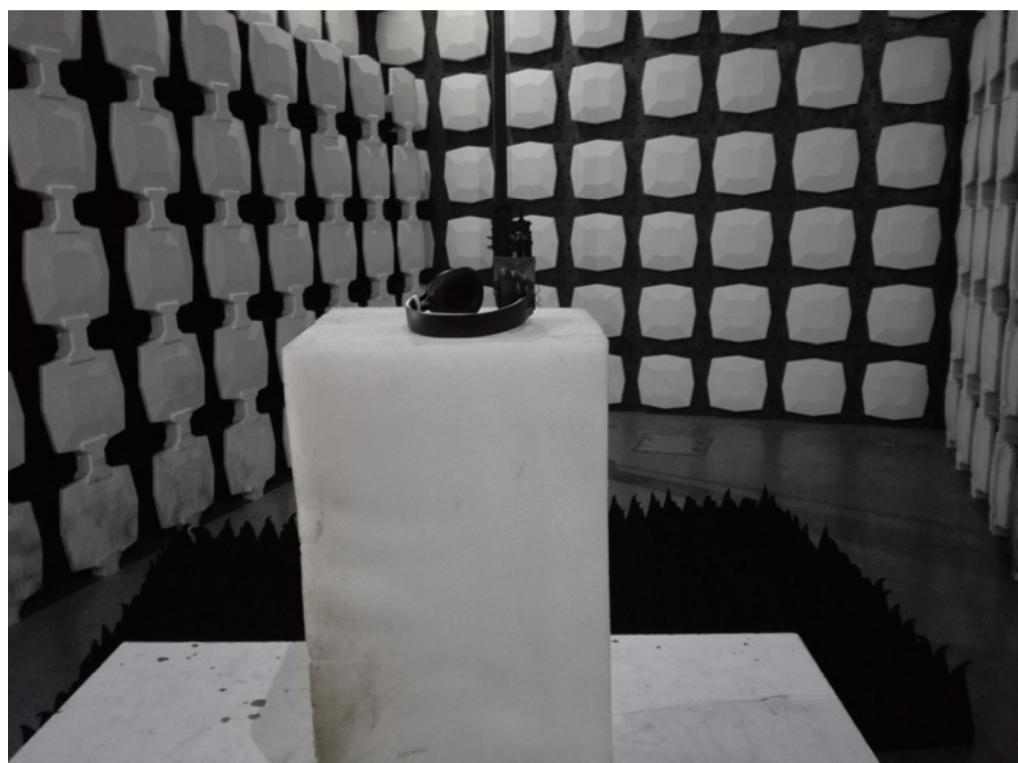
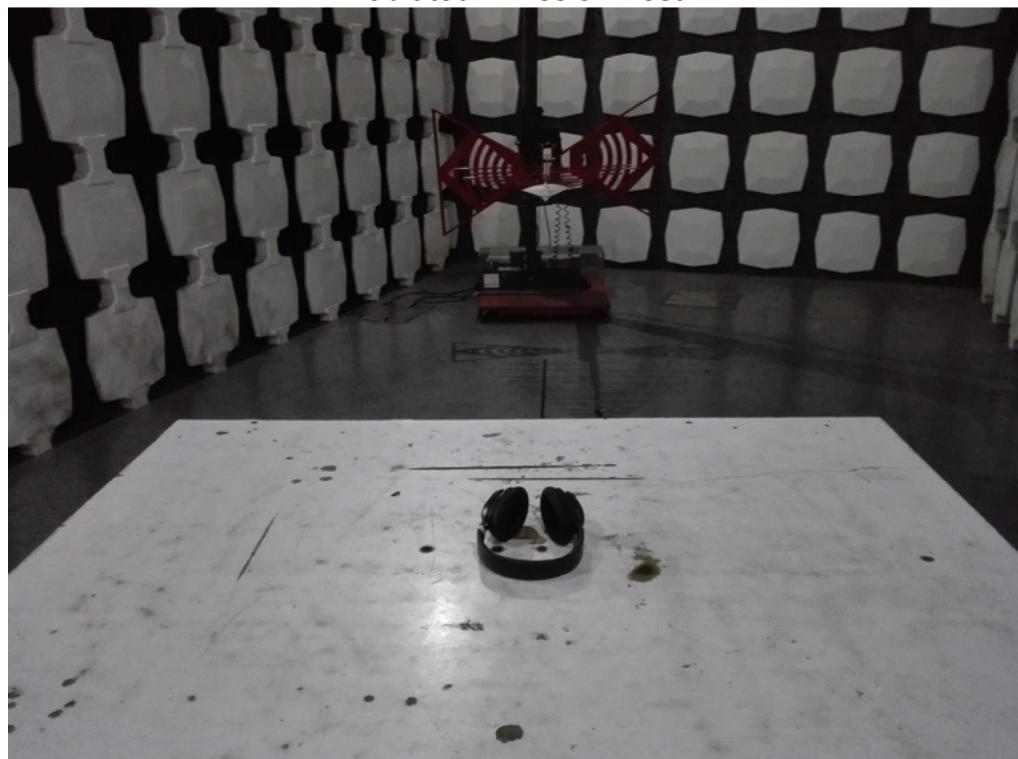
The antennas used for this product are permanent attached antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 1.0dBi.

## 10.PHOTOGRAPHS OF TEST SET-UP

Conducted Emission



Radiated Emission Test



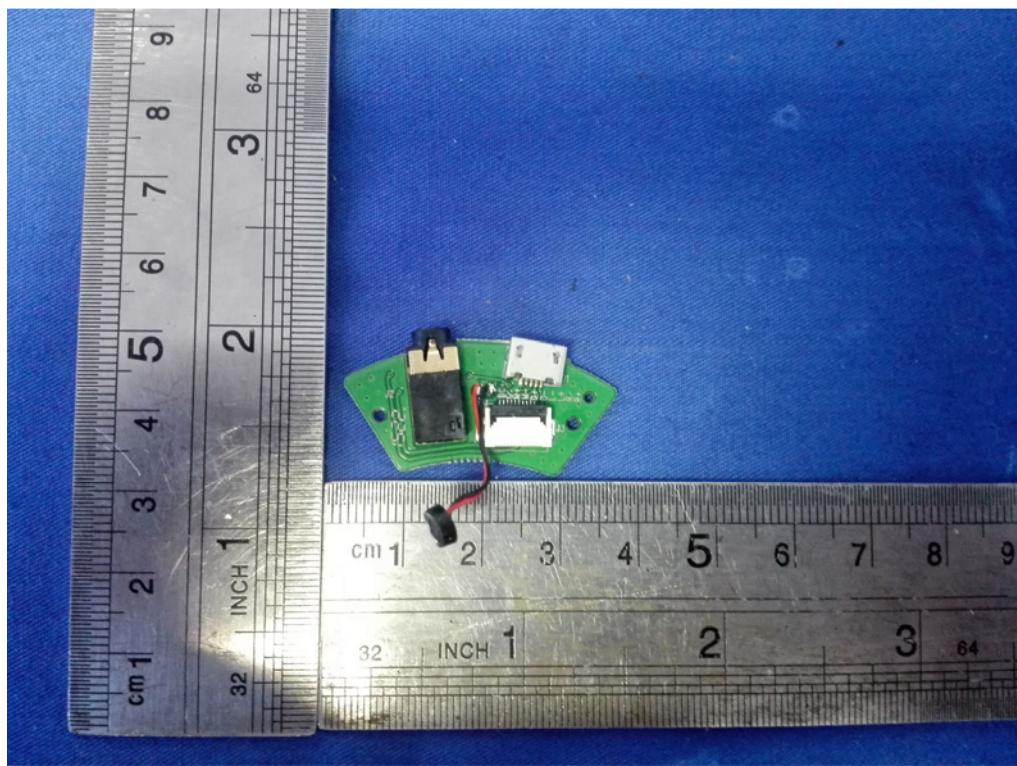
## 11. PHOTOGRAPHS OF THE EUT

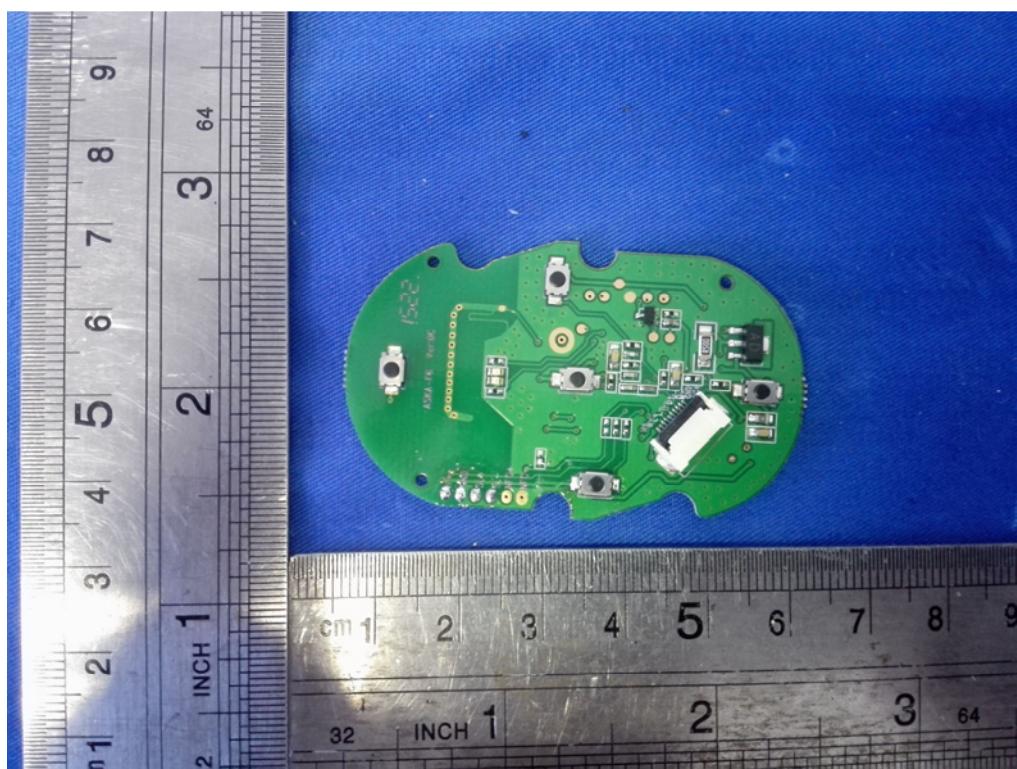
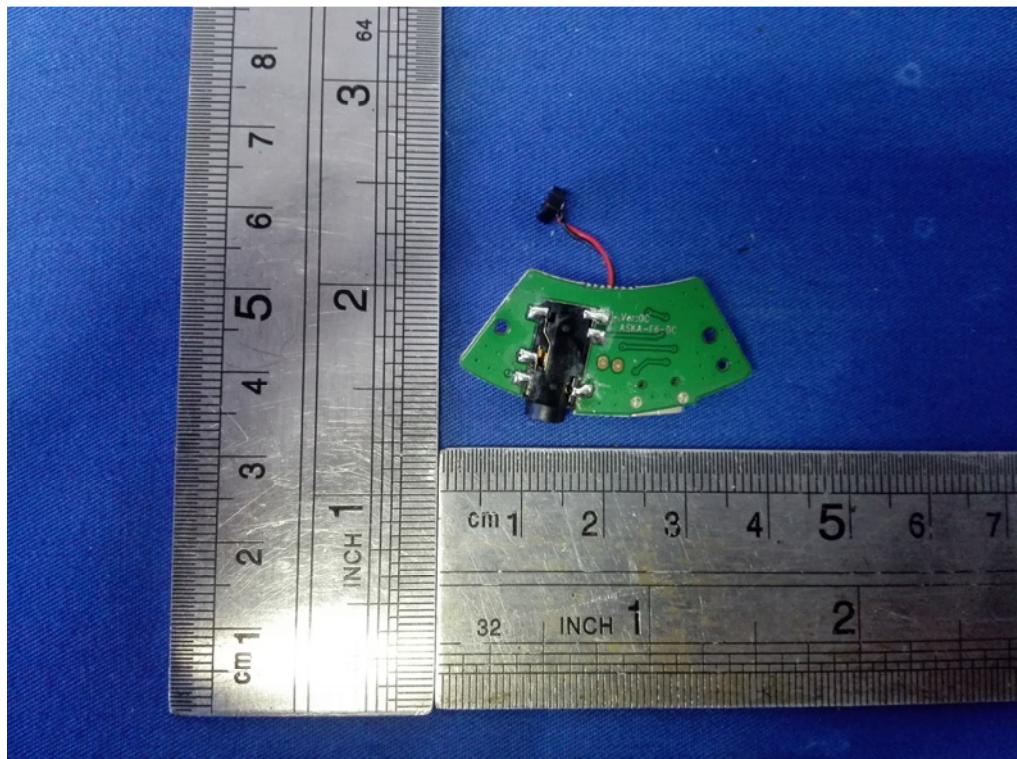


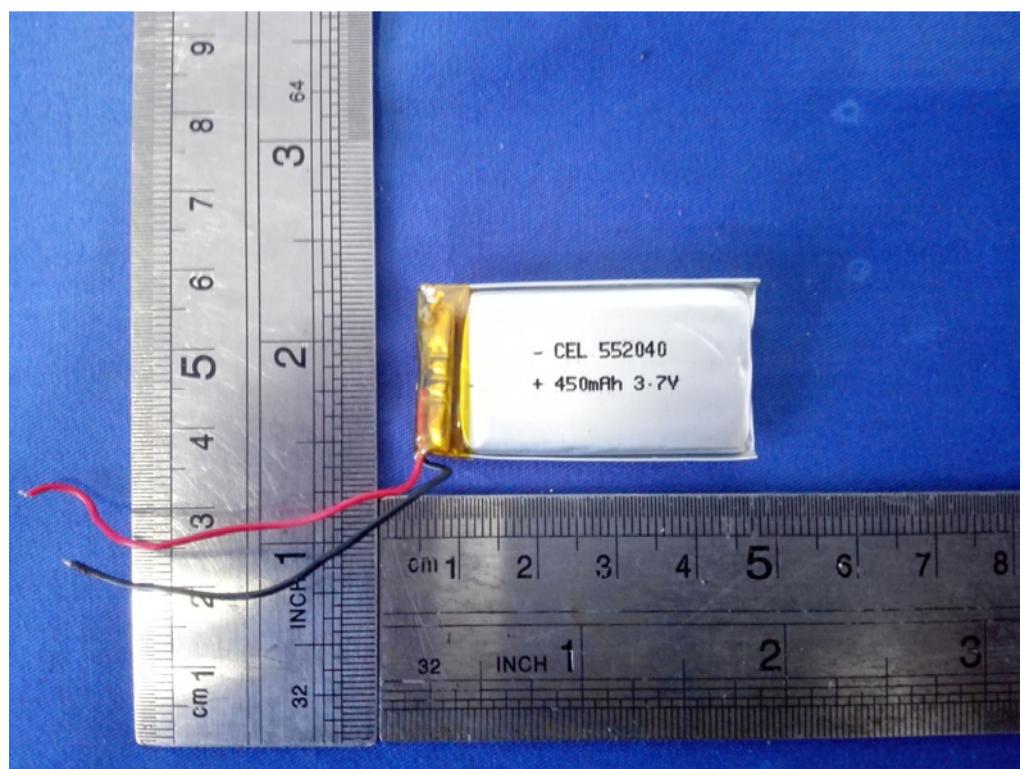
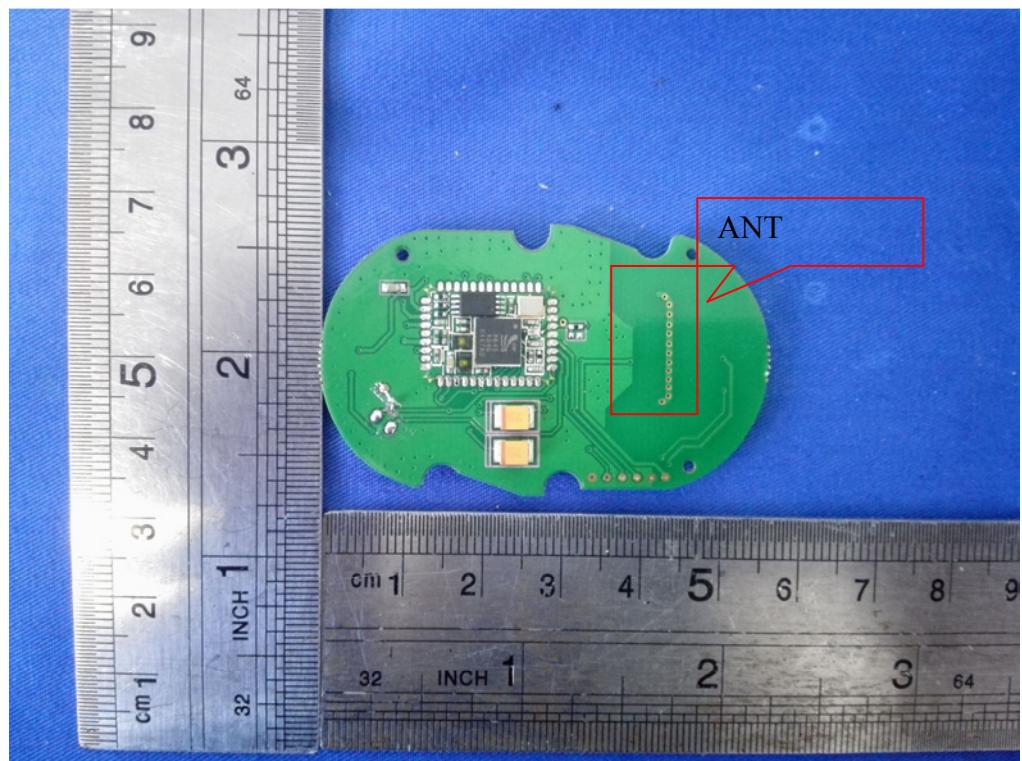












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