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# FCC Test Report

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Report No.: AGC03444161001FE03

**FCC ID** : 2ACX8CR6026A-BK  
**APPLICATION PURPOSE** : Original Equipment  
**PRODUCT DESIGNATION** : TURNTABLE WITH BLUETOOTH FUNCTION  
**BRAND NAME** : CROSLEY  
**MODEL NAME** : CR6026A-BK, CR6026A-XX  
**CLIENT** : TIMSEN INTERNATIONAL LIMITED  
**DATE OF ISSUE** : Oct.13, 2016  
**STANDARD(S)** : FCC Part 15 Rules  
**TEST PROCEDURE(S)**  
**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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### Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Oct.13, 2016	Valid	Original Report

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### 1. VERIFICATION OF CONFORMITY

<b>Applicant</b>	TIMSEN INTERNATIONAL LIMITED
<b>Address</b>	5F,447 Tianhe Bei Road,Guangzhou.China
<b>Manufacturer</b>	TIMSEN INTERNATIONAL LIMITED
<b>Address</b>	5F,447 Tianhe Bei Road,Guangzhou.China
<b>Product Designation</b>	TURNTABLE WITH BLUETOOTH FUNCTION
<b>Brand Name</b>	CROSLEY
<b>Test Model</b>	CR6026A-BK
<b>Series Model</b>	CR6026A-XX
<b>Difference description</b>	All the same except for the appearance color.
<b>Date of test</b>	Oct.09, 2016 to Oct.11, 2016
<b>Deviation</b>	None
<b>Condition of Test Sample</b>	Normal
<b>Report Template</b>	AGCRT-US-BR/RF

We hereby certify that:

The above equipment was tested by Dongguan Precise Testing Service Co., Ltd. The test data, the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.249.

*Strive Liang*

Tested By \_\_\_\_\_  
Strive Liang(Liang Faqiang)      Oct.13, 2016

*Forrest Lei*

Reviewed By \_\_\_\_\_  
Forrest Lei(Lei Yonggang)      Oct.13, 2016

*Solger Zhang*

Approved By \_\_\_\_\_  
Solger Zhang(Zhang Hongyi)  
Authorized Officer      Oct.13, 2016

## 2. GENERAL INFORMATION

### 2.1. PRODUCT DESCRIPTION

A major technical description of EUT is described as following

<b>Operation Frequency</b>	2.402 GHz to 2.480GHz
<b>RF Output Power</b>	0.94dBm(Max EIRP Power=Max radiation field-95.2)
<b>Bluetooth Version</b>	V4.2
<b>Modulation</b>	GFSK , $\pi$ /4-DQPSK, 8DPSK
<b>Number of channels</b>	79 for BR/EDR
<b>Hardware Version</b>	V4.0
<b>Software Version</b>	V4.00
<b>Antenna Designation</b>	PCB Antenna (Met 15.203 Antenna requirement)
<b>Antenna Gain</b>	2dBi
<b>Power Supply(by adapter-1)</b>	Input: AC 100-240V 50/60Hz Output: DC 12V 500mA
<b>Power Supply(by adapter-2)</b>	Input: AC 100-240V 50/60Hz Output: DC 12V 500mA

### 2.2. TABLE OF CARRIER FREQUENCIES

BR/EDR channel List

Frequency Band	Channel Number	Frequency
2400~2483.5MHZ	0	2402MHZ
	1	2403MHZ
	:	:
	38	2440 MHZ
	39	2441 MHZ
	40	2442 MHZ
	:	:
	77	2479 MHZ
	78	2480 MHZ

### 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded 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 Test	$\pm 3.18\text{dB}$
2	All emissions, radiated	$\pm 3.91\text{dB}$
3	Temperature	$\pm 0.5^\circ\text{C}$
4	Humidity	$\pm 2\%$

### 4. DESCRIPTION OF TEST MODES

NO.	TEST MODE DESCRIPTION
1	Low channel GFSK
2	Middle channel GFSK
3	High channel GFSK
4	Low channel $\pi/4$ -DQPSK
5	Middle channel $\pi/4$ -DQPSK
6	High channel $\pi/4$ -DQPSK
7	Low channel 8DPSK
8	Middle channel 8DPSK
9	High channel 8DPSK
10	BT Link

### Software Setting

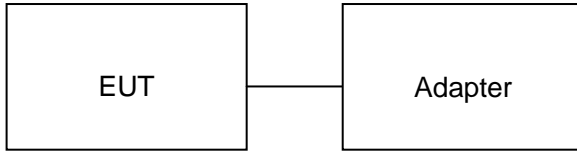
The screenshot shows the 'AppoTech RF Control Kit V4.0' software interface. It is divided into several sections:

- IC Model:** CW66xx
- COM Port Info:** Port: COM1, Rate: 921600
- DUT MODE:** FCC Mode
- RF Trim:** Includes checkboxes for Fix\_RX\_24xx, SingleTone, and Power, along with dropdowns for Hopping (OFF), Tx Modulation (ON), and Packet Type (3DH5).
- Test scenario:** 3 Transmitter test - 1010 pattern
- Specification:** A list of instructions for FIX RX mode, FIX TX mode, TX Modulation mode, and Hopping mode.
- RF Section:** Includes fields for RF (R12), Val (60BD), and buttons for Write, Read, Write\_xSFR, and Read\_xSFR. It also has checkboxes for Enable Patch 1 and Enable Patch 2, and a PFile field.
- Hex Dump:** A list of hexadecimal values, with the last line '04 0E 07 01 09 FC 00 0C BD 60' highlighted.
- Buttons:** Send, OK, Clear, Save, Read MROM, and Send.

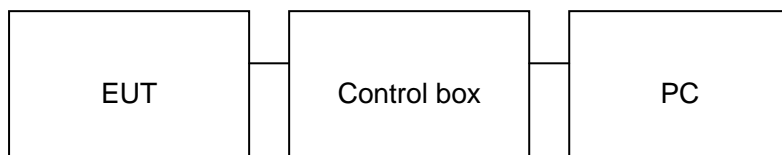
## 5. SYSTEM TEST CONFIGURATION

### 5.1. CONFIGURATION OF EUT SYSTEM

Configure 1: (Normal hopping)



Configure 2: (Control continuous TX)



### 5.2. EQUIPMENT USED IN EUT SYSTEM

Item	Equipment	Mfr/Brand	Model/Type No.	Remark
1	TURNTABLE WITH BLUETOOTH FUNCTION	CROSLEY	CR6026A-BK	EUT
2	PC	Sony	E1412AYCW	A.E
3	Control box	DOFLY	LY-USB-TTL	A.E
4	Adapter-1	N/A	RHD10W120050	Accessory
5	Adapter-2	XING YUAN	XY-1200500U	Accessory

### 5.3. SUMMARY OF TEST RESULTS

FCC RULES	DESCRIPTION OF TEST	RESULT
§15.249	Radiated Emission	Compliant
§15.249	Band Edges	Compliant
§15.207	Conduction Emission	Compliant
§15.215	Bandwidth	Compliant



## 6. TEST FACILITY

<b>Site</b>	Dongguan Precise Testing Service Co., Ltd.
<b>Location</b>	Building D,Baoding Technology Park,Guangming Road2,Dongcheng District, Dongguan, Guangdong, China,
<b>FCC Registration No.</b>	371540
<b>Description</b>	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2014.

## TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2013

## 7. ALL TEST EQUIPMENT LIST

FOR RADIATED EMISSION TEST (BELOW 1GHZ)

Radiated Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2016	July 3, 2017
Trilog Broadband Antenna (25M-1GHz)	SCHWARZBECK	VULB9160	9160-3355	July 4, 2016	July 3, 2017
Signal Amplifier	SCHWARZBECK	BBV 9475	9745-0013	July 4, 2016	July 3, 2017
RF Cable	SCHWARZBECK	AK9515E	96221	July 4, 2016	July 3, 2017
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2016	June 5, 2017
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Active loop antenna (9K-30MHz)	Schwarzbeck	FMZB1519	1519-038	June 6, 2016	June 5, 2017
Spectrum analyzer	Agilent	E4407B	MY46185649	June 6, 2016	June 5, 2017
Radiation Cable 1	MXT	RS1	R005	June 6, 2016	June 5, 2017
Radiation Cable 2	MXT	RS1	R006	June 6, 2016	June 5, 2017

FOR RADIATED EMISSION TEST (1GHZ ABOVE)

Radiated Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2016	July 3, 2017
Horn Antenna (1G-18GHz)	SCHWARZBECK	BBHA9120D	9120D-1246	July 11, 2016	July 10, 2017
Spectrum Analyzer	Agilent	E4411B	MY4511453	July 4, 2016	July 3, 2017
Signal Amplifier	SCHWARZBECK	BBV 9718	9718-269	July 7, 2016	July 6, 2017
RF Cable	SCHWARZBECK	AK9515H	96220	July 8, 2016	July 7, 2017
3m Anechoic Chamber	CHENGYU	966	PTS-001	June 6, 2016	June 5, 2017
MULTI-DEVICE Positioning Controller	Max-Full	MF-7802	MF780208339	N/A	N/A
Horn Ant (18G-40GHz)	Schwarzbeck	BBHA 9170	9170-181	June 6, 2016	June 5, 2017
Radiation Cable 1	MXT	RS1	R005	June 6, 2016	June 5, 2017
Radiation Cable 2	MXT	RS1	R006	June 6, 2016	June 5, 2017

Conducted Emission Test Site					
Name of Equipment	Manufacturer	Model Number	Serial Number	Last Calibration	Due Calibration
EMI Test Receiver	Rohde & Schwarz	ESCI	101417	July 4, 2016	July 3, 2017
Artificial Mains Network	Narda	L2-16B	000WX31025	July 8, 2016	July 7, 2017
Artificial Mains Network (AUX)	Narda	L2-16B	000WX31026	July 8, 2016	July 7, 2017
RF Cable	SCHWARZBECK	AK9515E	96222	July 4, 2016	July 3, 2017
Shielded Room	CHENGYU	843	PTS-002	June 6, 2016	June 5, 2017
Conduction Cable	MXT	SE1	S003	June 6, 2016	June 5, 2017

## 8. RADIATED EMISSION

### 8.1 TEST LIMIT

#### Standard FCC15.249

Fundamental Frequency	Field Strength of Fundamental (millivolts/meter)	Field Strength of Harmonics (microvolts/meter)
900-928MHz	50	500
2400-2483.5MHz	50	500
5725-5875MHz	50	500
24.0-24.25GHz	250	2500

#### Standard FCC 15.209

Frequency (MHz)	Distance Meters	Field Strengths Limit	
		$\mu$ V/m	dB( $\mu$ V)/m
0.009 ~ 0.490	300	2400/F(kHz)	---
0.490 ~ 1.705	30	24000/F(kHz)	---
1.705 ~ 30	30	30	---
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	Other:74.0 dB( $\mu$ V)/m (Peak) 54.0 dB( $\mu$ V)/m (Average)	

Remark: (1) Emission level  $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$   
(2) The smaller limit shall apply at the cross point between two frequency bands.  
(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

## 8.2. MEASUREMENT PROCEDURE

1. The measuring distance of 3m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Below 1GHz)
2. The measuring distance of 3m shall used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation(Above 1GHz)
3. The height of the test antenna shall vary between 1m to 4m.Both horizontal and vertical polarization Of the antenna are set to make the measurement.
4. The initial step in collecting radiated emission data is a receive peak detector mode. Pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
5. All readings are peak unless otherwise stated QP in column of Note. Peak denoted that the Peak reading compliance with the QP limits and then QP Mode measurement didn't perform(Below 1GHz)
6. All readings are Peak mode value unless otherwise stated AVG in column of Note. If the Peak mode measured value compliance with the Peak limits and lower than AVG Limits, the EUT shall be deemed to meet Peak&AVG limits and then only Peak mode was measured, but AVG mode didn't perform.(Above 1GHz)

The following table is the setting of spectrum analyzer and receiver.

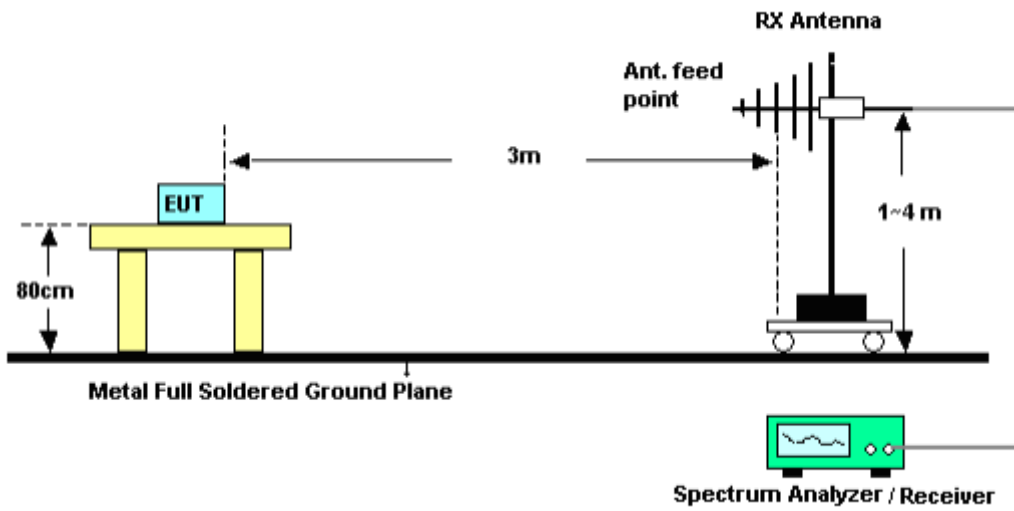
<b>Spectrum Parameter</b>	<b>Setting</b>
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP
Start ~Stop Frequency	1GHz~26.5GHz 1MHz/3MHz for Peak, 1MHz/10Hz for Average
<b>Receiver Parameter</b>	<b>Setting</b>
Start ~Stop Frequency	9KHz~150KHz/RB 200Hz for QP
Start ~Stop Frequency	150KHz~30MHz/RB 9KHz for QP
Start ~Stop Frequency	30MHz~1000MHz/RB 120KHz for QP

### 8.3. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



### RADIATED EMISSION TEST SETUP ABOVE 1000MHz



**8.4. TEST RESULT**

**(Worst modulation:GFSK)**

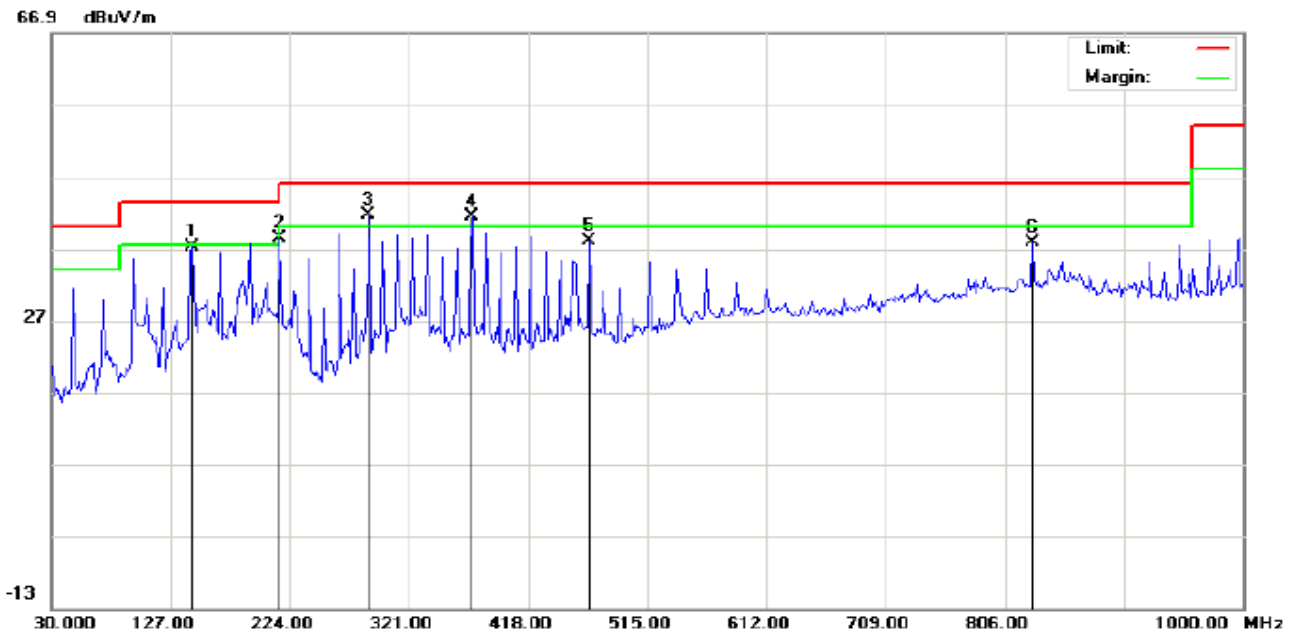
**FOR BR/EDR**

**RADIATED EMISSION BELOW 30MHZ**

No emission found between lowest internal used/generated frequencies to 30MHz.

**RADIATED EMISSION BELOW 1GHZ**

**RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL-HORIZONTAL**



Site: site #1  
Limit: FCC Class B 3M Radiation  
EUT:TURNTABLE WITH BLUETOOTH FUNCTION  
M/N:CR6026A-BK  
Mode:Low Channel TX  
Note:

Polarization: *Horizontal*  
Power:  
Distance:

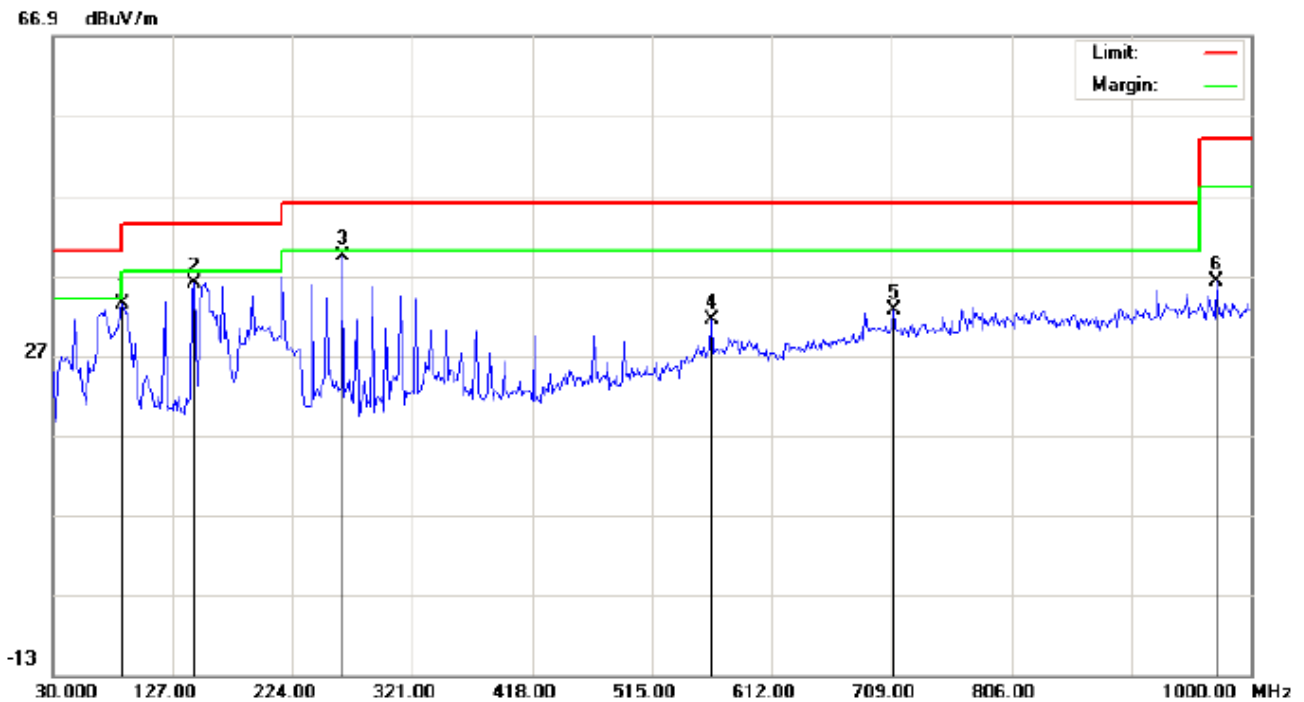
Temperature: 23.9  
Humidity: 56.9 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		144.7831	23.20	14.04	37.24	43.50	-6.26	peak			
2	!	215.9165	27.94	10.38	38.32	43.50	-5.18	peak			
3	*	288.6666	28.12	13.48	41.60	46.00	-4.40	peak			
4	!	372.7332	22.43	18.89	41.32	46.00	-4.68	peak			
5		468.1166	17.16	20.79	37.95	46.00	-8.05	peak			
6		828.6331	10.53	27.31	37.84	46.00	-8.16	peak			

**RESULT: PASS**



RADIATED EMISSION TEST- (30MHZ-1GHZ)-LOW CHANNEL -VERTICAL



Site: site #1 Polarization: *Vertical* Temperature: 23.9  
 Limit: FCC Class B 3M Radiation Power: Humidity: 56.9 %  
 EUT: TURNTABLE WITH BLUETOOTH FUNCTION Distance:  
 M/N: CR6026A-BK  
 Mode: Low Channel TX  
 Note:

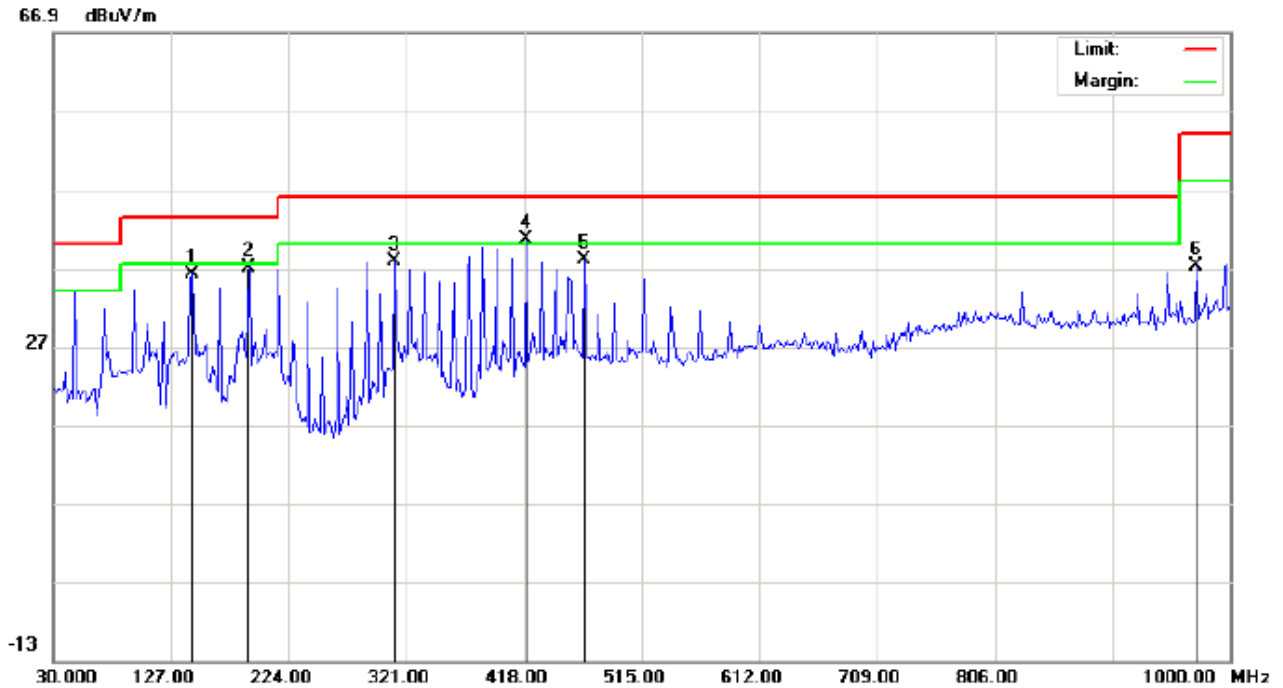
No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	86.5832	29.28	4.16	33.44	40.00	-6.56	peak			
2		144.7831	20.78	15.23	36.01	43.50	-7.49	peak			
3		264.4166	25.04	14.34	39.38	46.00	-6.62	peak			
4		563.5000	8.76	22.55	31.31	46.00	-14.69	peak			
5		710.6167	7.03	25.50	32.53	46.00	-13.47	peak			
6		972.5167	6.47	29.78	36.25	54.00	-17.75	peak			

**RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

RADIATED EMISSION TEST- (30MHZ-1GHZ)-MIDDLE CHANNEL-HORIZONTAL



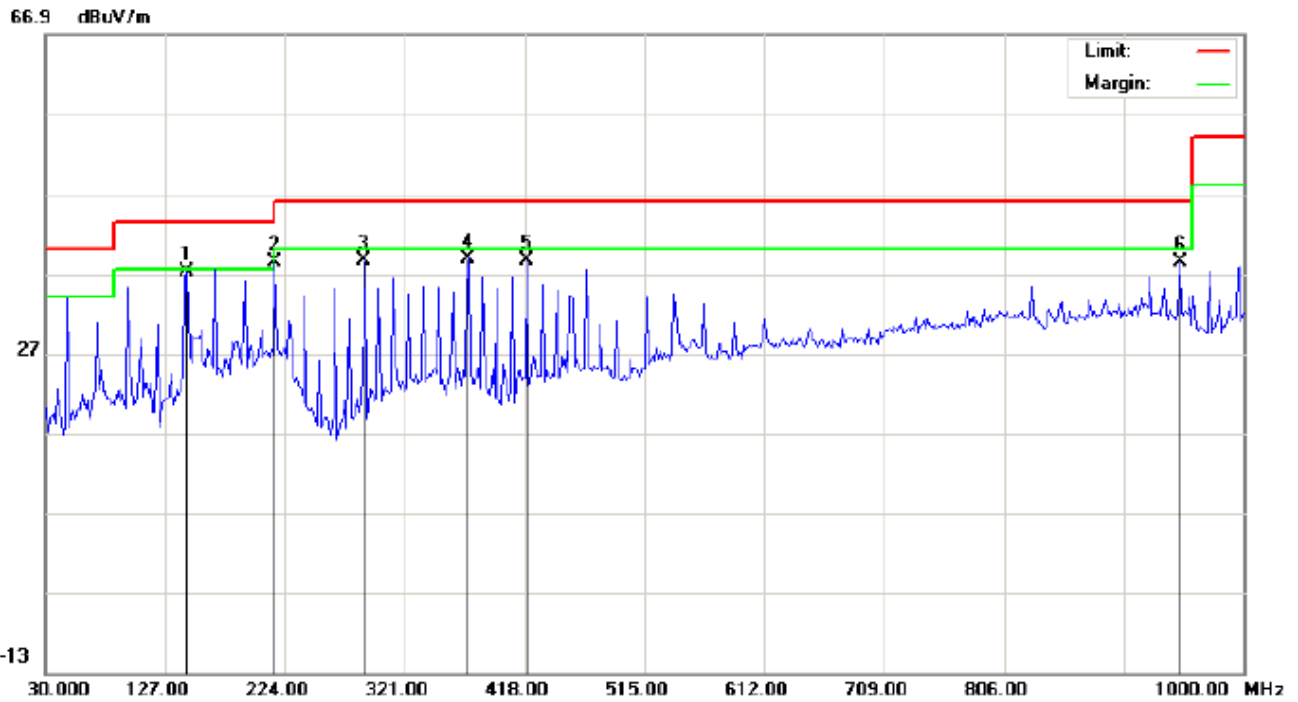
Site: site #1 Polarization: *Horizontal* Temperature: 23.9  
 Limit: FCC Class B 3M Radiation Power: Humidity: 56.9 %  
 EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:  
 M/N:CR6026A-BK  
 Mode:Middle Channel TX  
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna	Table	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		Height	Degree	
1		144.7831	22.20	14.04	36.24	43.50	-7.26	peak	cm	degree	
2		191.6665	25.45	11.61	37.06	43.50	-6.44	peak			
3		311.3000	21.69	16.16	37.85	46.00	-8.15	peak			
4	*	419.6166	20.89	19.67	40.56	46.00	-5.44	peak			
5		468.1166	17.16	20.79	37.95	46.00	-8.05	peak			
6		972.5167	7.52	29.78	37.30	54.00	-16.70	peak			

**RESULT: PASS**



RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL-HORIZONTAL

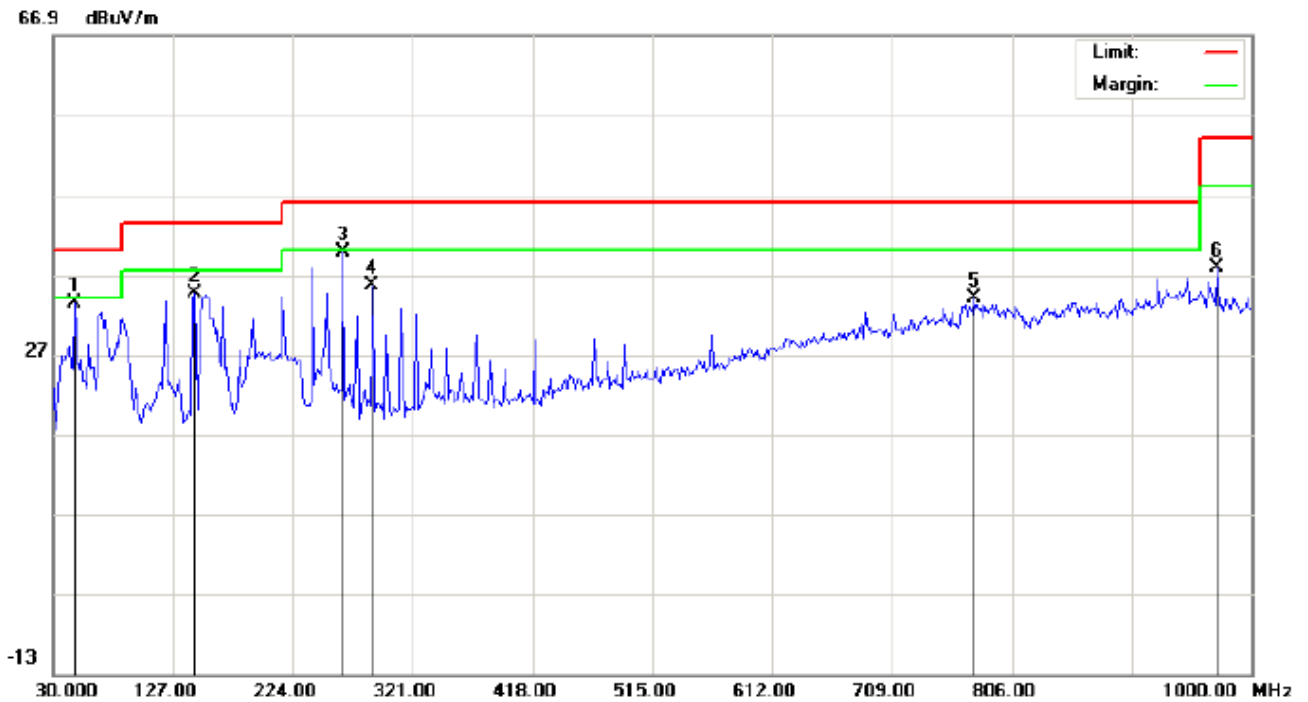


Site: site #1 Polarization: *Horizontal* Temperature: 23.9  
 Limit: FCC Class B 3M Radiation Power: Humidity: 56.9 %  
 EUT: TURNTABLE WITH BLUETOOTH FUNCTION Distance:  
 M/N: CR6026A-BK  
 Mode: High Channel TX  
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		144.7831	23.20	14.04	37.24	43.50	-6.26	peak			
2	*	215.9165	27.94	10.38	38.32	43.50	-5.18	peak			
3		288.6666	25.12	13.48	38.60	46.00	-7.40	peak			
4		372.7332	19.93	18.89	38.82	46.00	-7.18	peak			
5		419.6166	18.89	19.67	38.56	46.00	-7.44	peak			
6		948.2667	8.48	29.95	38.43	46.00	-7.57	peak			

**RESULT: PASS**

RADIATED EMISSION TEST- (30MHZ-1GHZ)-HIGH CHANNEL -VERTICAL



Site: site #1 Polarization: **Vertical** Temperature: 23.9  
 Limit: FCC Class B 3M Radiation Power: Humidity: 56.9 %  
 EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:  
 M/N:CR6026A-BK  
 Mode:High Channel TX  
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna	Table	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		Height	Degree	
									cm	degree	
1		47.7832	24.94	8.39	33.33	40.00	-6.67	peak			
2		144.7831	19.28	15.23	34.51	43.50	-8.99	peak			
3	*	264.4166	25.54	14.34	39.88	46.00	-6.12	peak			
4		288.6666	20.55	15.07	35.62	46.00	-10.38	peak			
5		775.2833	6.95	26.98	33.93	46.00	-12.07	peak			
6		972.5167	7.97	29.78	37.75	54.00	-16.25	peak			

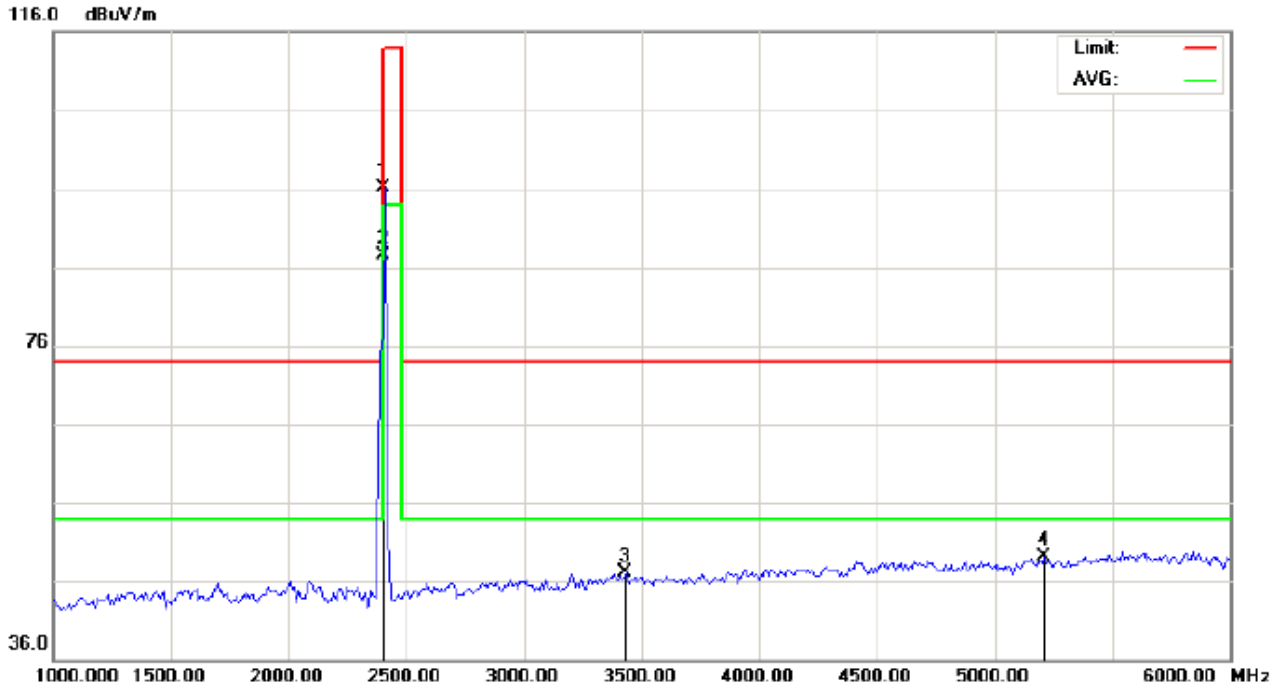
**RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Measurement-Limit.

2. The "Factor" value can be calculated automatically by software of measurement system.

**RADIATED EMISSION ABOVE 1GHZ  
(Worst modulation: GFSK)  
FOR BR/EDR**

**RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL-HORIZONTAL**

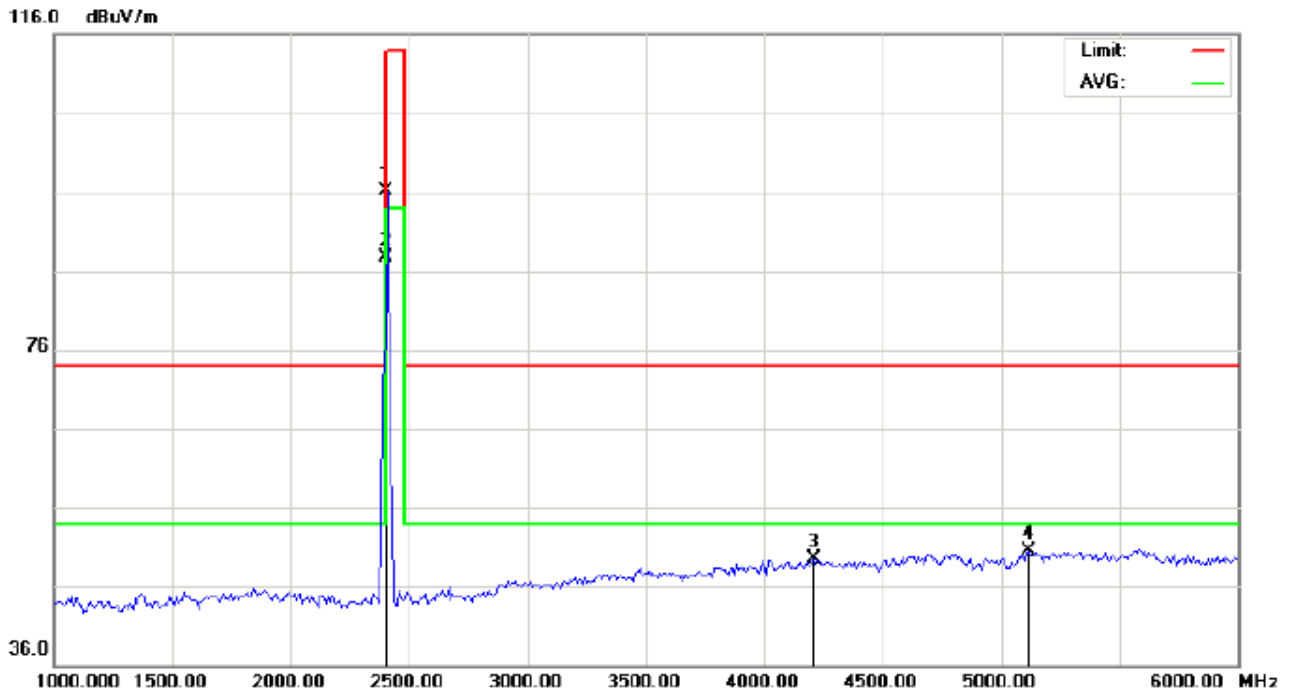


Site: site #1 Polarization: *Horizontal* Temperature: 22.7  
Limit: FCC Class B 3M Radiation above 1GHZ(PK)- Power: Humidity: 53.6 %  
EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:  
M/N:CR6026A-BK  
Mode: Low Channel TX  
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	85.71	10.32	96.03	114.00	-17.97	peak			
2	*	2402.000	77.27	10.32	87.59	94.00	-6.41	AVG	150	179	
3		3433.333	35.09	12.05	47.14	74.00	-26.86	peak			
4		5208.333	45.13	4.03	49.16	74.00	-24.84	peak			

**RESULT: PASS**

RADIATED EMISSION TEST- (ABOVE 1GHZ)-LOW CHANNEL- VERTICAL

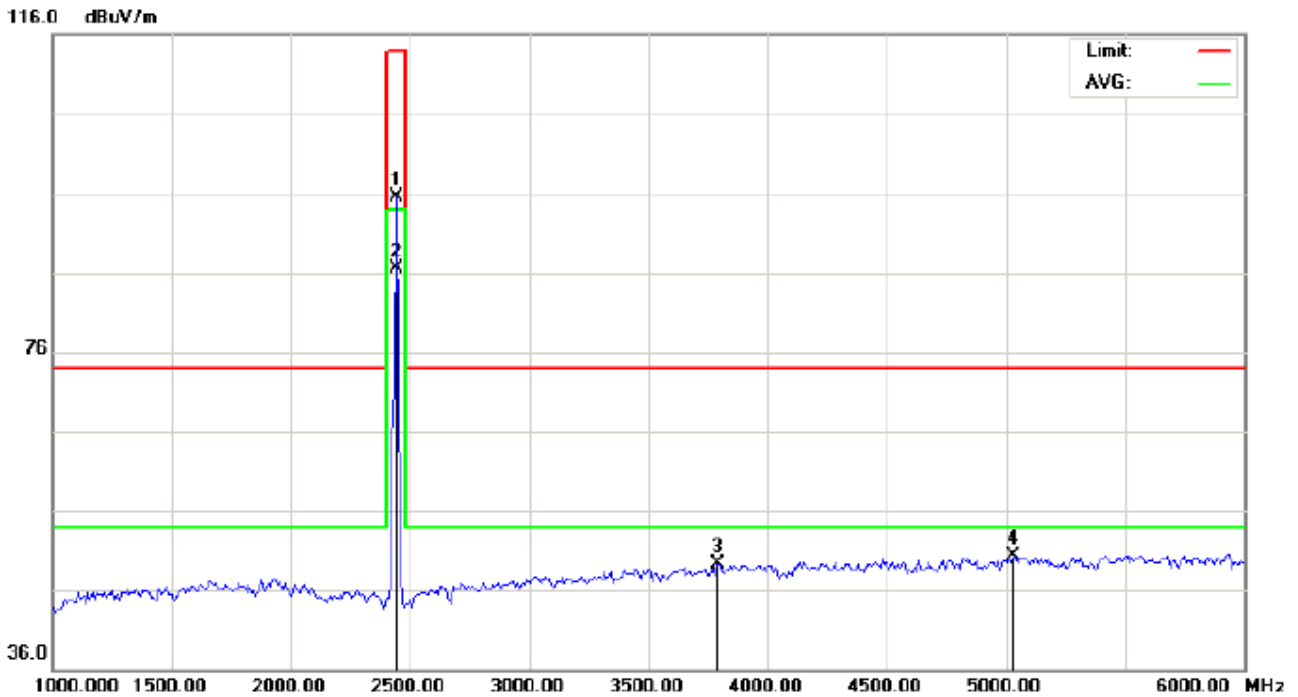


Site: site #1 Polarization: *Vertical* Temperature: 22.7  
Limit: FCC Class B 3M Radiation above 1GHZ(PK)- Power: Humidity: 53.6 %  
EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:  
M/N:CR6026A-BK  
Mode: Low Channel TX  
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2402.000	85.82	10.32	96.14	114.00	-17.86	peak			
2	*	2402.000	77.43	10.32	87.75	94.00	-6.25	AVG	150	132	
3		4208.333	37.81	11.73	49.54	74.00	-24.46	peak			
4		5116.667	44.68	5.86	50.54	74.00	-23.46	peak			

**RESULT: PASS**

RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL-HORIZONTAL



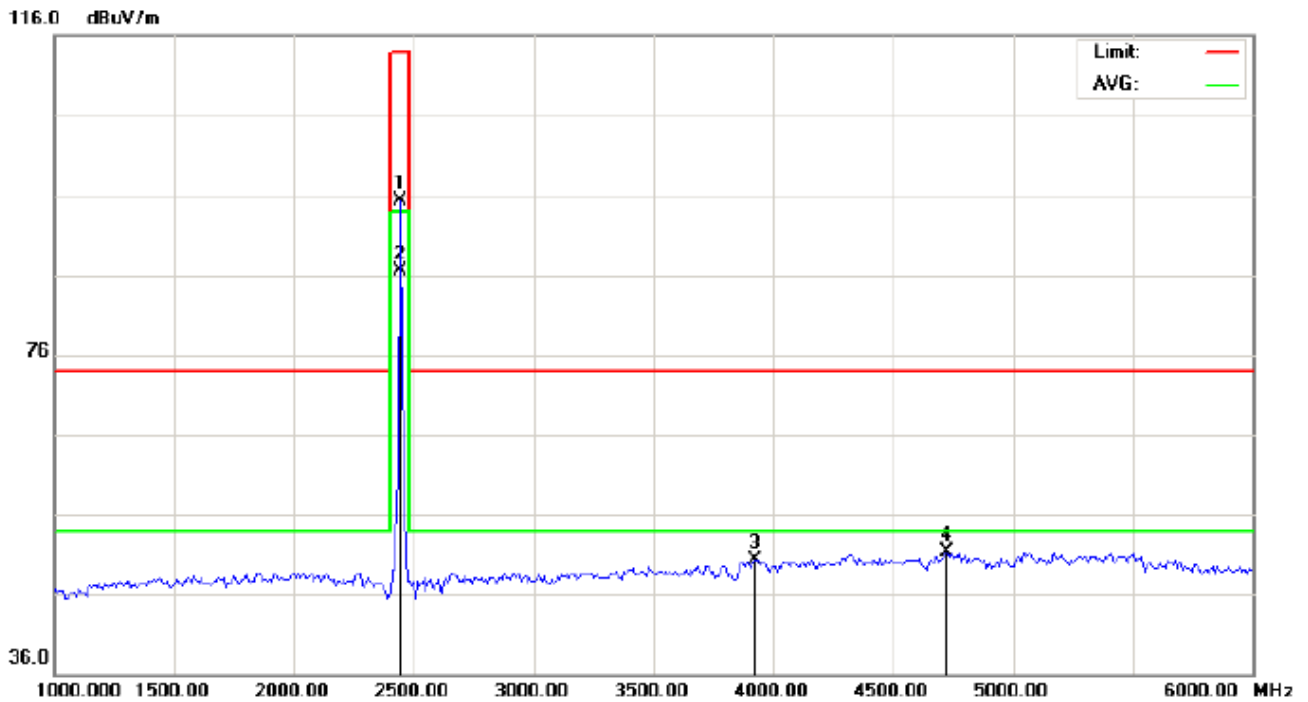
Site: site #1 Polarization: *Horizontal* Temperature: 22.7  
Limit: FCC Class B 3M Radiation above 1GHZ(PK)- Power: Humidity: 53.6 %  
EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:  
M/N:CR6026A-BK  
Mode: Middle Channel TX  
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2441.000	85.24	10.36	95.60	114.00	-18.40	peak			
2	*	2441.000	76.23	10.36	86.59	94.00	-7.41	AVG	150	189	
3		3791.667	35.32	13.91	49.23	74.00	-24.77	peak			
4		5033.333	42.82	7.53	50.35	74.00	-23.65	peak			

**RESULT: PASS**



RADIATED EMISSION TEST- (ABOVE 1GHZ)-MIDDLE CHANNEL- VERTICAL

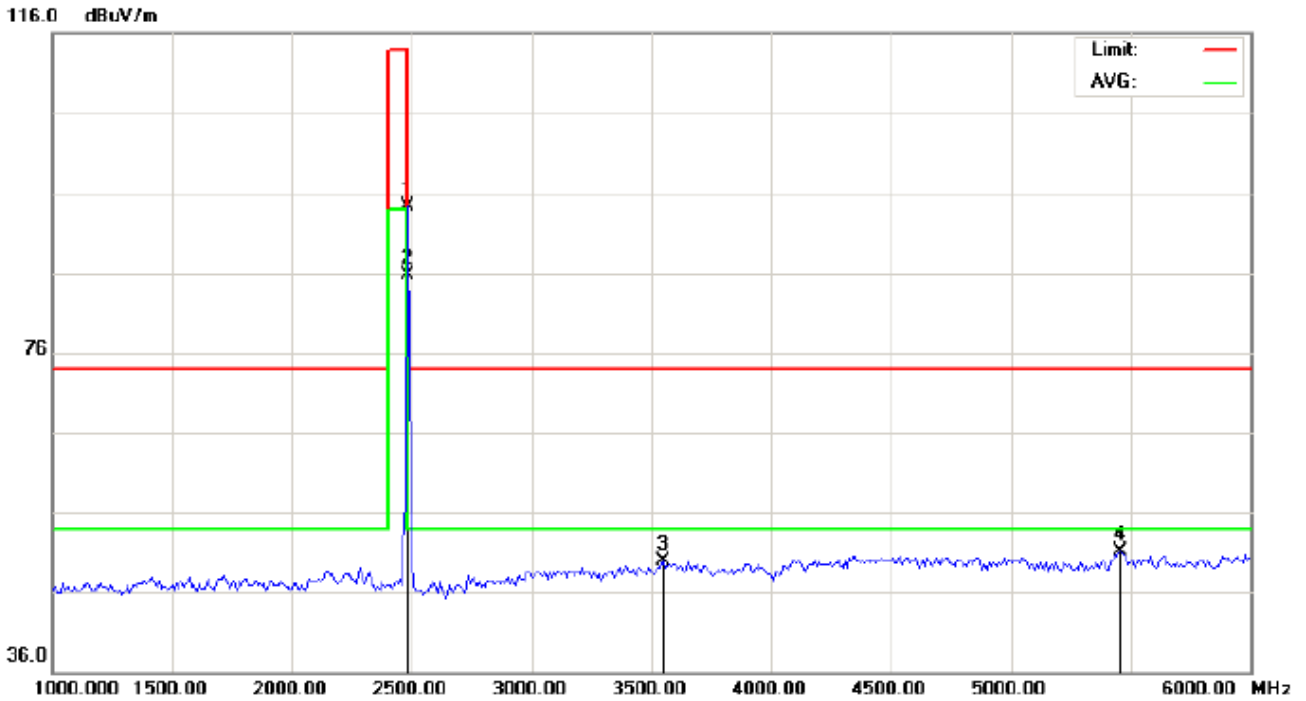


Site: site #1 Polarization: **Vertical** Temperature: 22.7  
Limit: FCC Class B 3M Radiation above 1GHZ(PK)- Power: Humidity: 53.6 %  
EUT: TURNTABLE WITH BLUETOOTH FUNCTION Distance:  
M/N: CR6026A-BK  
Mode: Middle Channel TX  
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2441.000	84.99	10.36	95.35	114.00	-18.65	peak			
2	*	2441.000	76.08	10.36	86.44	94.00	-7.56	AVG	150	27	
3		3925.000	35.58	14.73	50.31	74.00	-23.69	peak			
4		4725.000	43.81	7.48	51.29	74.00	-22.71	peak			

**RESULT: PASS**

RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL-HORIZONTAL

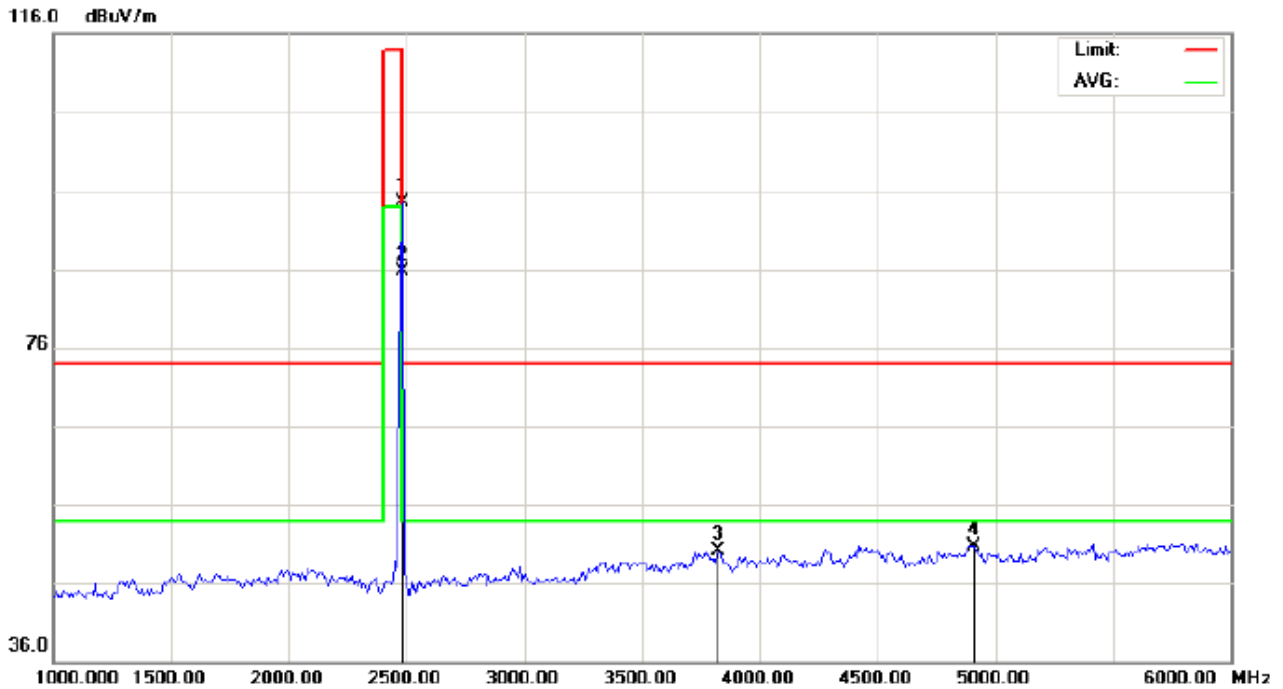


Site: site #1 Polarization: *Horizontal* Temperature: 22.7  
Limit: FCC Class B 3M Radiation above 1GHZ(PK)- Power: Humidity: 53.6 %  
EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:  
M/N:CR6026A-BK  
Mode: High Channel TX  
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	83.97	10.41	94.38	114.00	-19.62	peak			
2	*	2480.000	75.28	10.41	85.69	94.00	-8.31	AVG	100	127	
3		3550.000	37.39	12.42	49.81	74.00	-24.19	peak			
4		5458.333	52.05	-0.98	51.07	74.00	-22.93	peak			

**RESULT: PASS**

RADIATED EMISSION TEST- (ABOVE 1GHZ)-HIGH CHANNEL- VERTICAL



Site: site #1 Polarization: *Vertical* Temperature: 22.7  
 Limit: FCC Class B 3M Radiation above 1GHZ(PK)- Power: Humidity: 53.6 %  
 EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:  
 M/N:CR6026A-BK  
 Mode: High Channel TX  
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2480.000	84.19	10.41	94.60	114.00	-19.40	peak			
2	*	2480.000	75.35	10.41	85.76	94.00	-8.24	AVG	100	115	
3		3825.000	36.06	14.11	50.17	74.00	-23.83	peak			
4		4908.333	42.73	7.96	50.69	74.00	-23.31	peak			

**RESULT: PASS**

**Note:** 6~25GHz at least have 20dB margin. No recording in the test report.

Factor=Antenna Factor + Cable loss - Amplifier gain, Margin=Measurement-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

**Field strength of the fundamental signal****1Mbps Result:****Peak value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	85.71	10.32	96.03	114	-17.97	Horizontal
2402	85.82	10.32	96.14	114	-17.86	Vertical
2441	85.24	10.36	95.60	114	-18.40	Horizontal
2441	84.99	10.36	95.35	114	-18.65	Vertical
2480	83.97	10.41	94.38	114	-19.62	Horizontal
2480	84.19	10.41	94.60	114	-19.40	Vertical

**Average value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	77.27	10.32	87.59	94	-6.41	Horizontal
2402	77.43	10.32	87.75	94	-6.25	Vertical
2441	76.23	10.36	86.59	94	-7.41	Horizontal
2441	76.08	10.36	86.44	94	-7.56	Vertical
2480	75.28	10.41	85.69	94	-8.31	Horizontal
2480	75.35	10.41	85.76	94	-8.24	Vertical

**2Mbps Result:****Peak value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	85.21	10.32	95.53	114	-18.47	Horizontal
2402	85.23	10.32	95.55	114	-18.45	Vertical
2441	84.70	10.36	95.06	114	-18.94	Horizontal
2441	84.72	10.36	95.08	114	-18.92	Vertical
2480	83.45	10.41	93.86	114	-20.14	Horizontal
2480	83.48	10.41	93.89	114	-20.11	Vertical

**Average value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	76.73	10.32	87.05	94	-6.95	Horizontal
2402	76.76	10.32	87.08	94	-6.92	Vertical
2441	75.83	10.36	86.19	94	-7.81	Horizontal
2441	75.87	10.36	86.23	94	-7.77	Vertical
2480	74.70	10.41	85.11	94	-8.89	Horizontal
2480	74.74	10.41	85.15	94	-8.85	Vertical

**3Mbps Result:****Peak value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	84.70	10.32	95.02	114	-18.98	Horizontal
2402	84.74	10.32	95.06	114	-18.94	Vertical
2441	84.15	10.36	94.51	114	-19.49	Horizontal
2441	84.22	10.36	94.58	114	-19.42	Vertical
2480	82.95	10.41	93.36	114	-20.64	Horizontal
2480	83.00	10.41	93.41	114	-20.59	Vertical

**Average value**

Frequency	Reading Level	Factor	Measurement	Limit	Over	Antenna
(MHz)	(dBuv)	(dB/m)	(dBuv/m)	(dBuv/m)	(dB)	Polarization
2402	76.11	10.32	86.43	94	-7.57	Horizontal
2402	76.17	10.32	86.49	94	-7.51	Vertical
2441	75.38	10.36	85.74	94	-8.26	Horizontal
2441	75.41	10.36	85.77	94	-8.23	Vertical
2480	74.21	10.41	84.62	94	-9.38	Horizontal
2480	74.29	10.41	84.70	94	-9.30	Vertical

## 9. BAND EDGE EMISSION

### 9.1. MEASUREMENT PROCEDURE

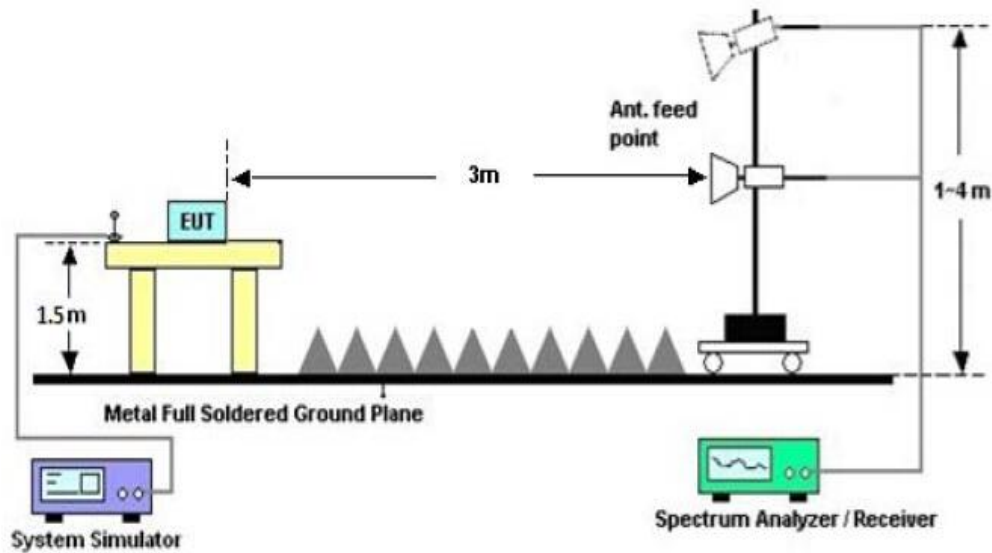
1The EUT operates at hopping-off test mode. The lowest or highest channels are tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2Max hold the trace of the setup 1, and the EUT operates at hopping-on test mode to verify the largest spurious emissions power.

3Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission

### 9.2 TEST SETUP

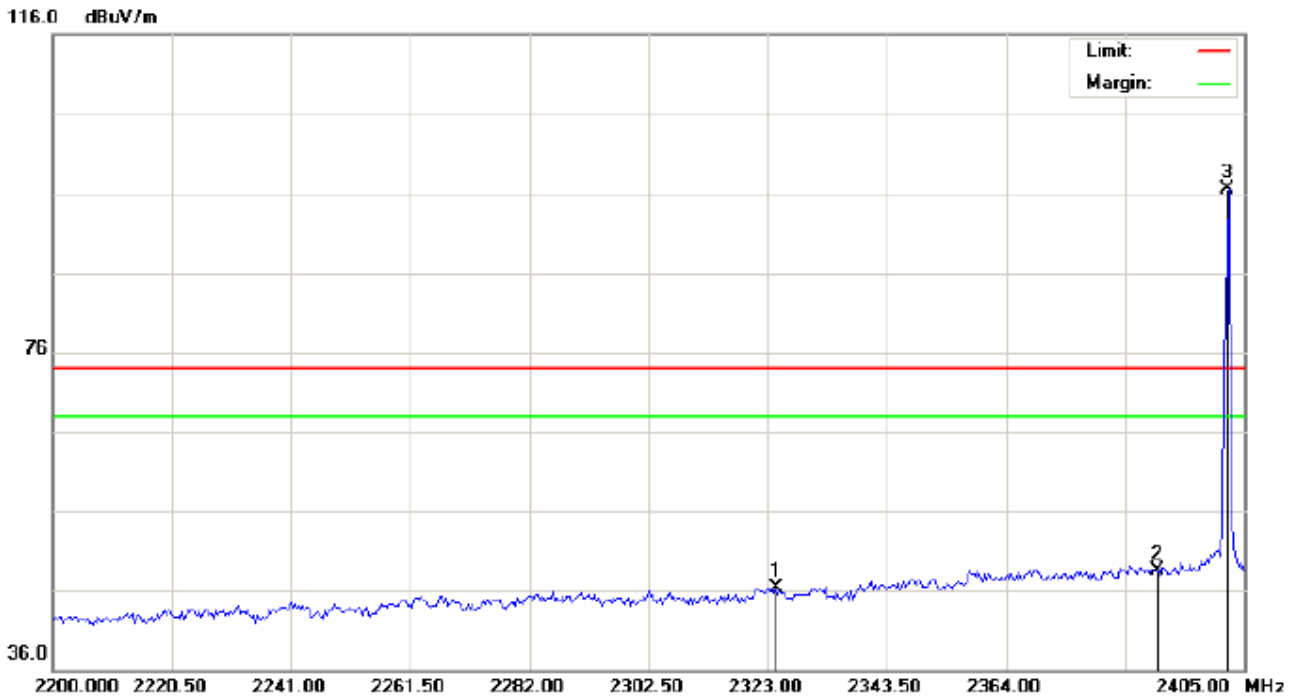
RADIATED EMISSION TEST SETUP







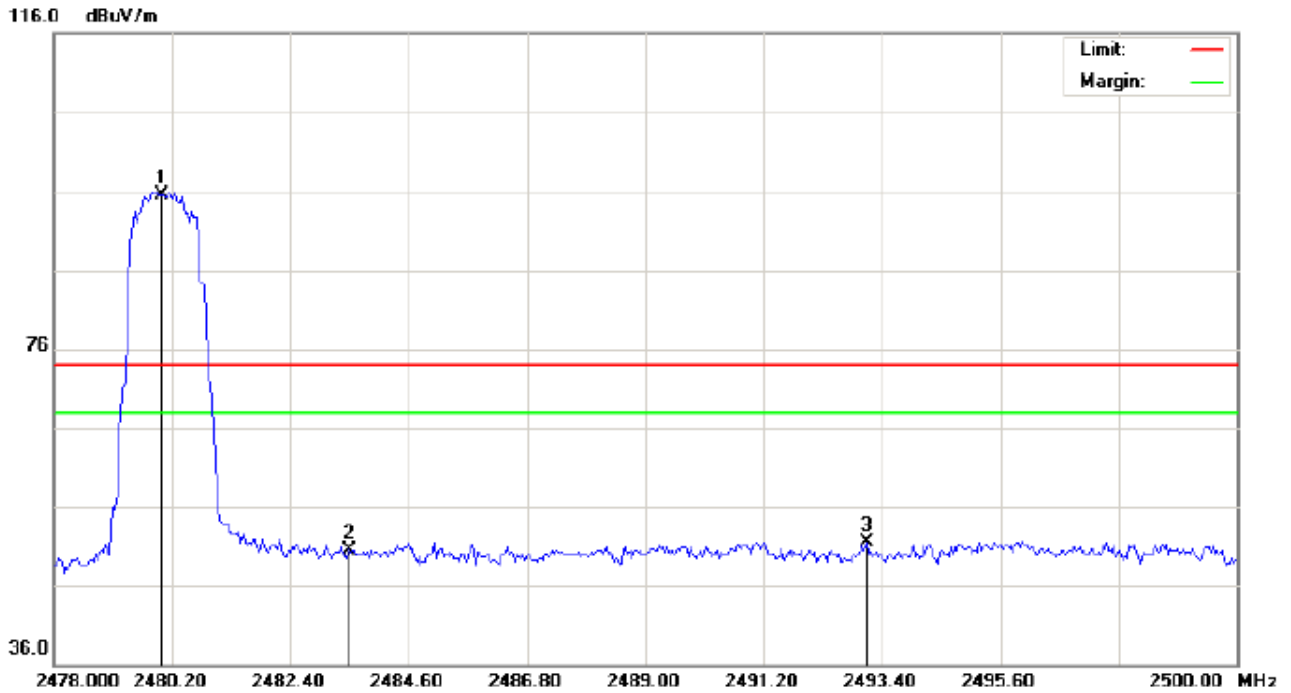
TEST PLOT OF BAND EDGE FOR LOW CHANNEL -Vertical



Site: site #1 Polarization: *Vertical* Temperature: 26  
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %  
EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:  
M/N:CR6026A-BK  
Mode: Low Channel TX  
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		2324.367	36.05	10.24	46.29	74.00	-27.71	peak			
2		2390.000	38.21	10.31	48.52	74.00	-25.48	peak			
3	*	2402.000	86.09	10.32	96.41	74.00	22.41	peak			

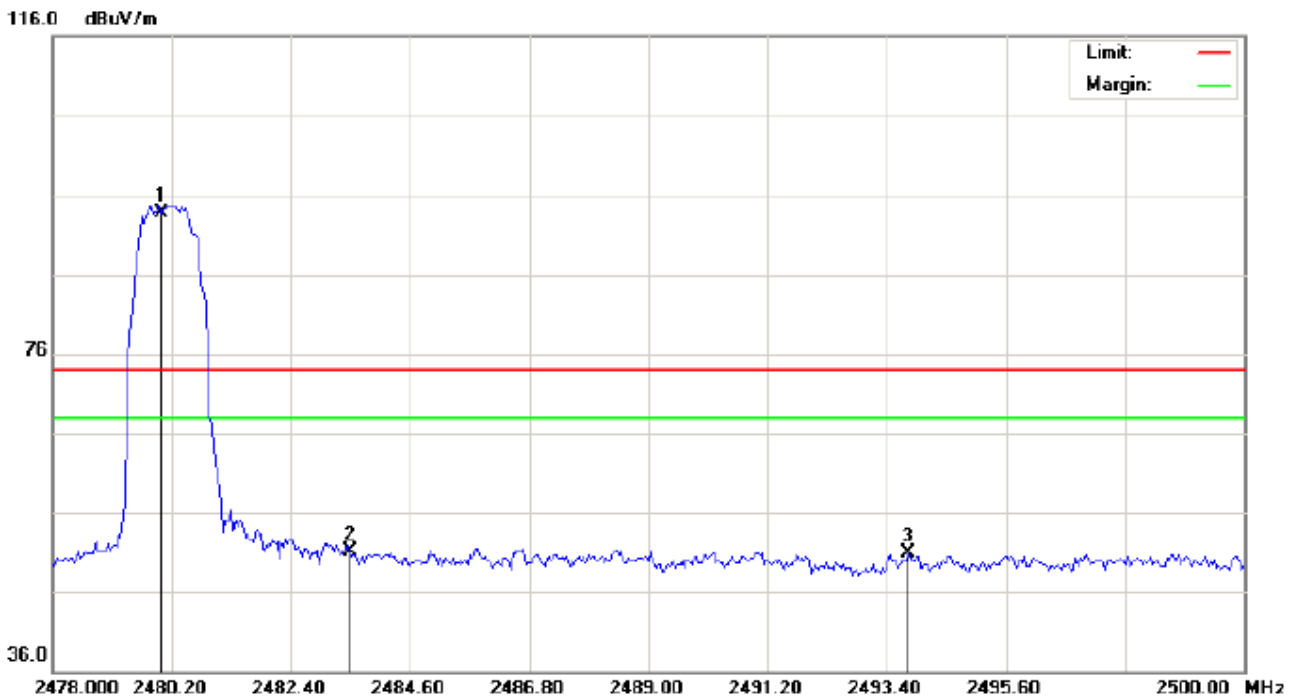
TEST PLOT OF BAND EDGE FOR HIGH CHANNEL -Horizontal



Site: site #1 Polarization: *Horizontal* Temperature: 26  
Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %  
EUT:TURNABLE WITH BLUETOOTH FUNCTION Distance:  
M/N:CR6026A-BK  
Mode: High Channel TX  
Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	85.05	10.41	95.46	74.00	21.46	peak			
2		2483.500	40.19	10.41	50.60	74.00	-23.40	peak			
3		2493.107	41.04	10.42	51.46	74.00	-22.54	peak			

TEST PLOT OF BAND EDGE FOR HIGH CHANNEL-Vertical



Site: site #1 Polarization: *Vertical* Temperature: 26  
 Limit: FCC Class B 3M Radiation above 1GHZ(PK) Power: Humidity: 60 %  
 EUT:TURNTABLE WITH BLUETOOTH FUNCTION Distance:  
 M/N:CR6026A-BK  
 Mode: High Channel TX  
 Note:

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	*	2480.000	83.32	10.41	93.73	74.00	19.73	peak			
2		2483.500	40.76	10.41	51.17	74.00	-22.83	peak			
3		2493.803	40.53	10.42	50.95	74.00	-23.05	peak			

**RESULT: PASS**

**Note:** The other modes radiation emission have enough 20dB margin.

Factor=Antenna Factor + Cable loss - Amplifier gain, Over=Measure-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

Hopping on mode and Hopping off mode have been tested, but only worst case reported.

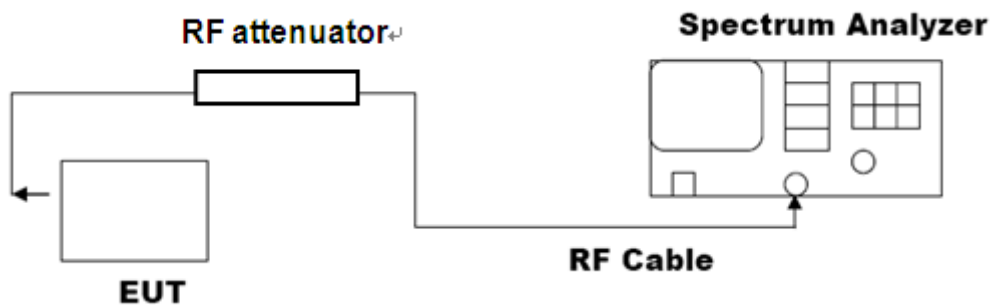
## 10. 20DB BANDWIDTH

### 10.1. MEASUREMENT PROCEDURE

1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
2. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
3. Set Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hoping channel  
RBW  $\geq$  1% of the 20 dB bandwidth, VBW  $\geq$  RBW; Sweep = auto; Detector function = peak
4. Set SPA Trace 1 Max hold, then View.

### 10.2. TEST SET-UP

(BLOCK DIAGRAM OF CONFIGURATION)



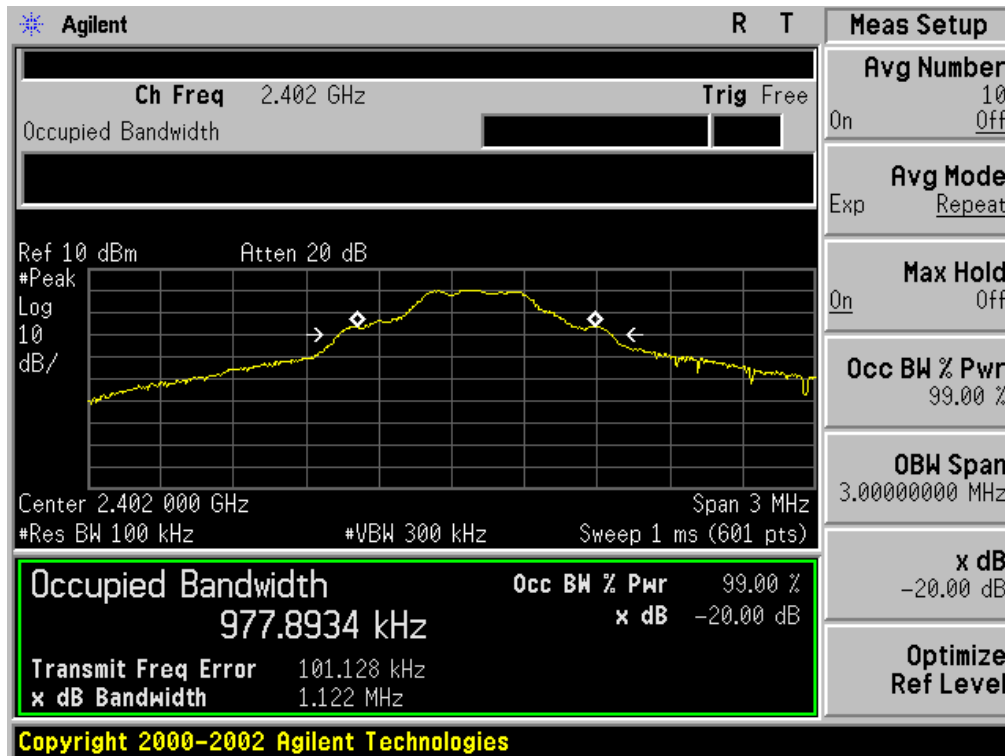
Note: The EUT has been used temporary antenna connector for testing.

### 10.3. LIMITS AND MEASUREMENT RESULTS

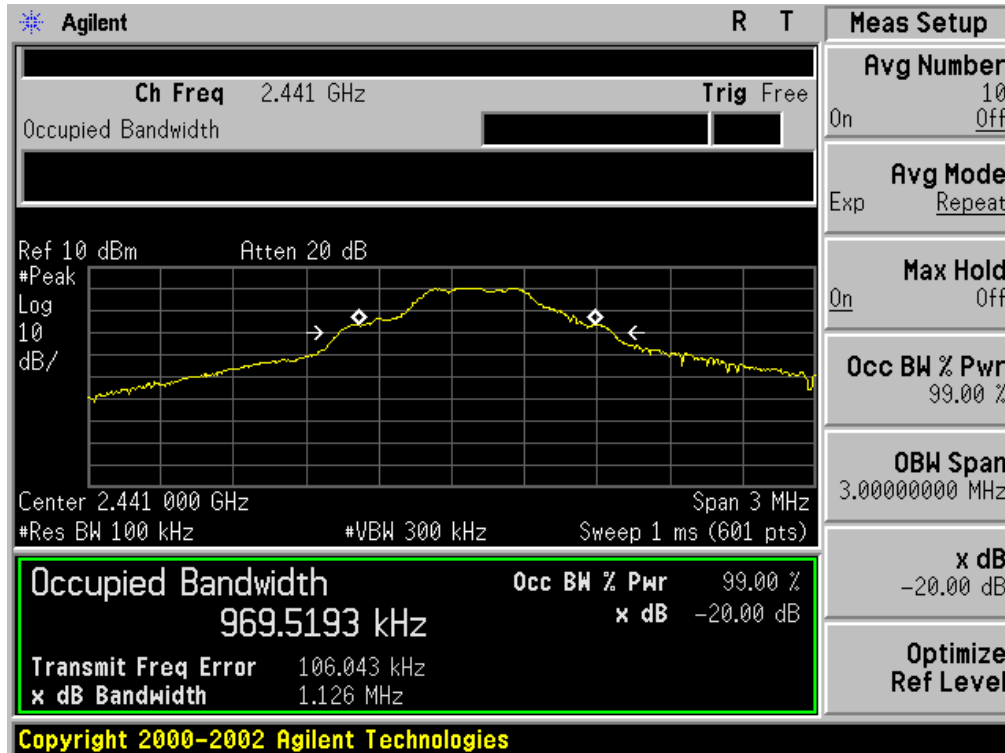
FOR BR/EDR

BLUETOOTH 1MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)			Result
		99%OBW (MHz)	-20dB BW(MHz)	
N/A	Low Channel	0.978	1.122	PASS
	Middle Channel	0.970	1.126	PASS
	High Channel	0.972	1.125	PASS

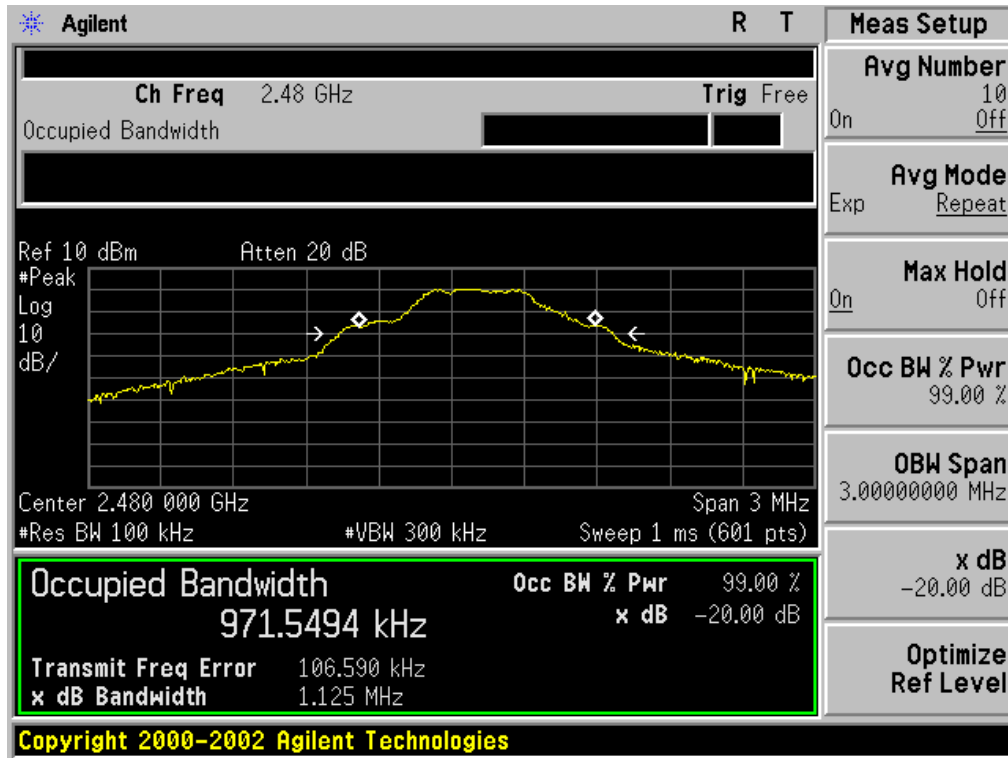
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL

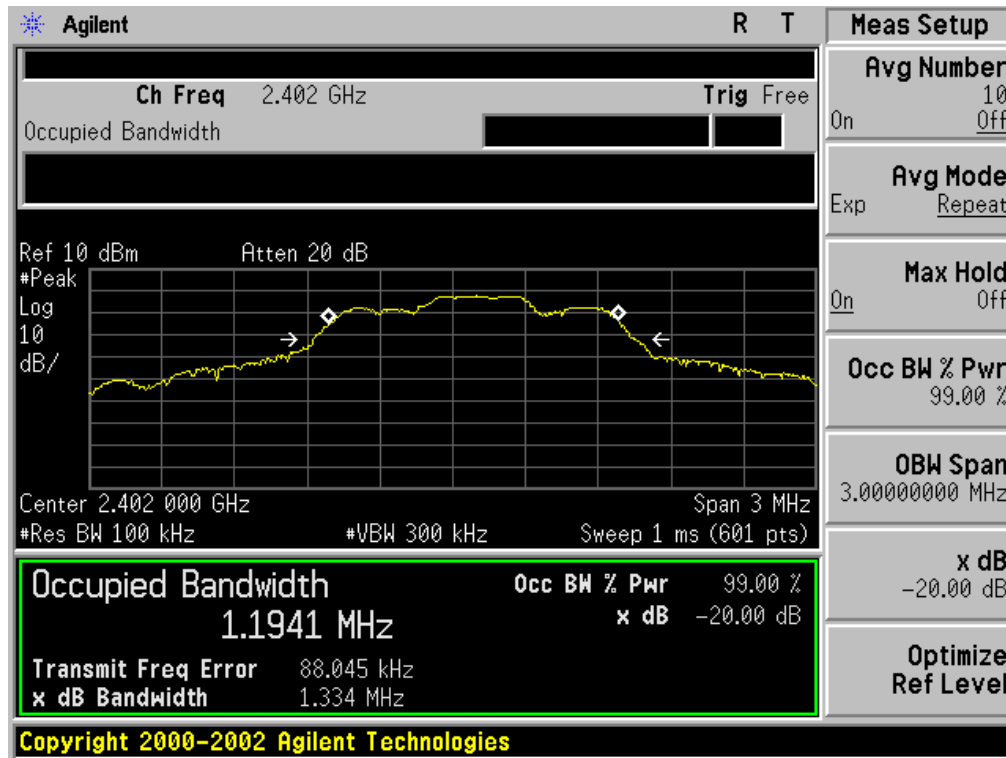


TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL

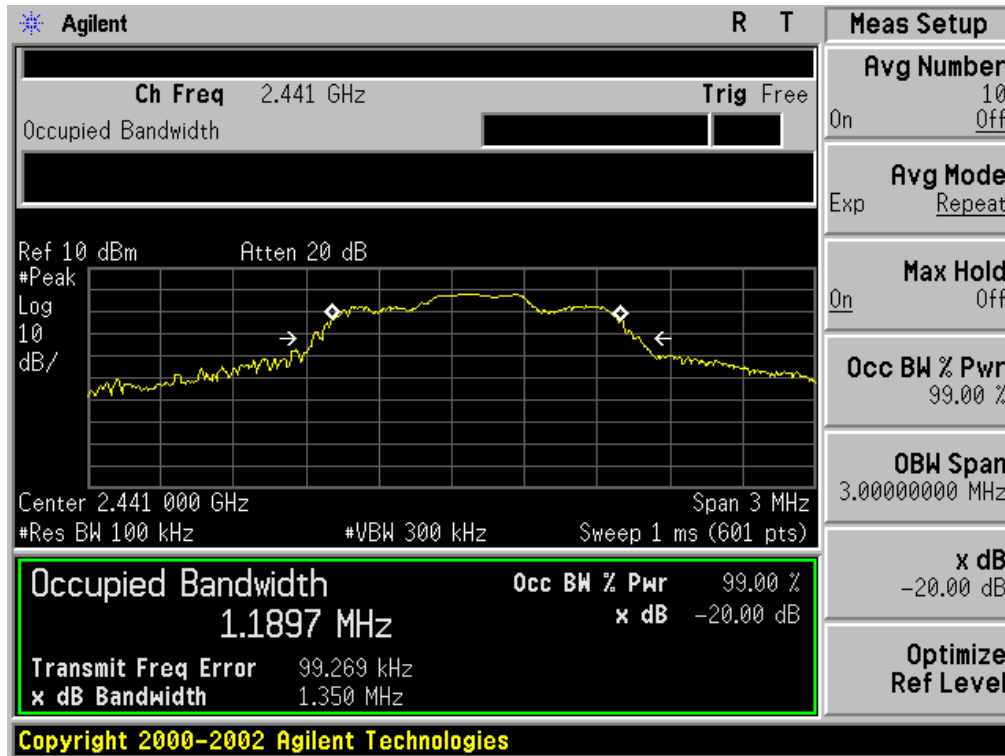


BLUETOOTH 2MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)			Result
		99%OBW (MHz)	-20dB BW(MHz)	
N/A	Low Channel	1.194	1.334	PASS
	Middle Channel	1.190	1.350	PASS
	High Channel	1.180	1.325	PASS

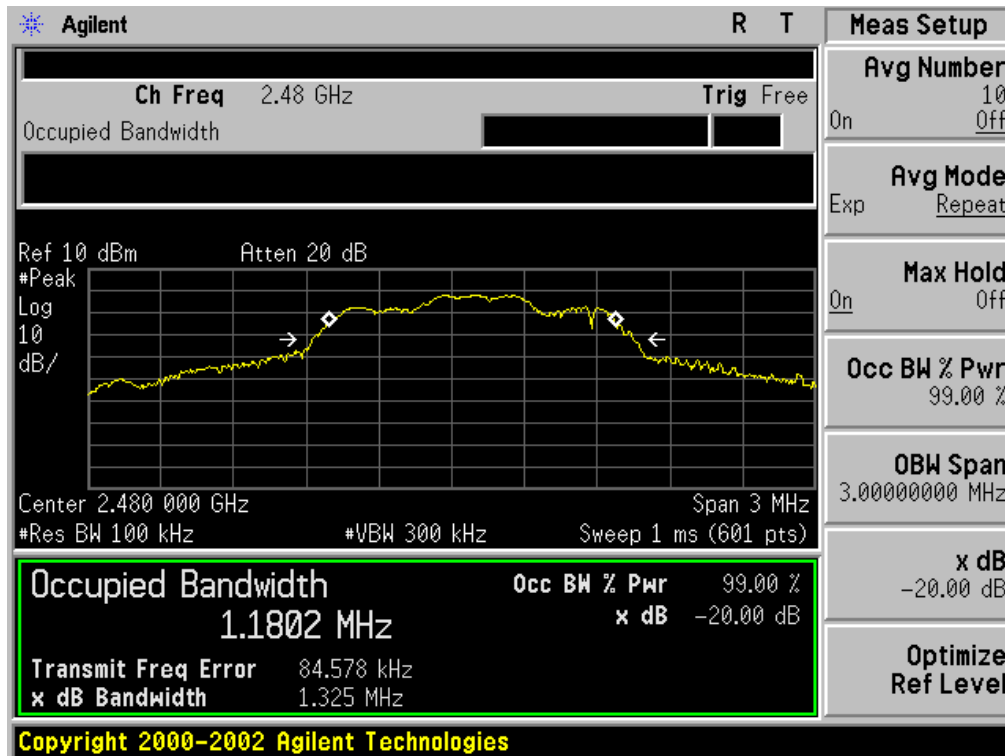
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



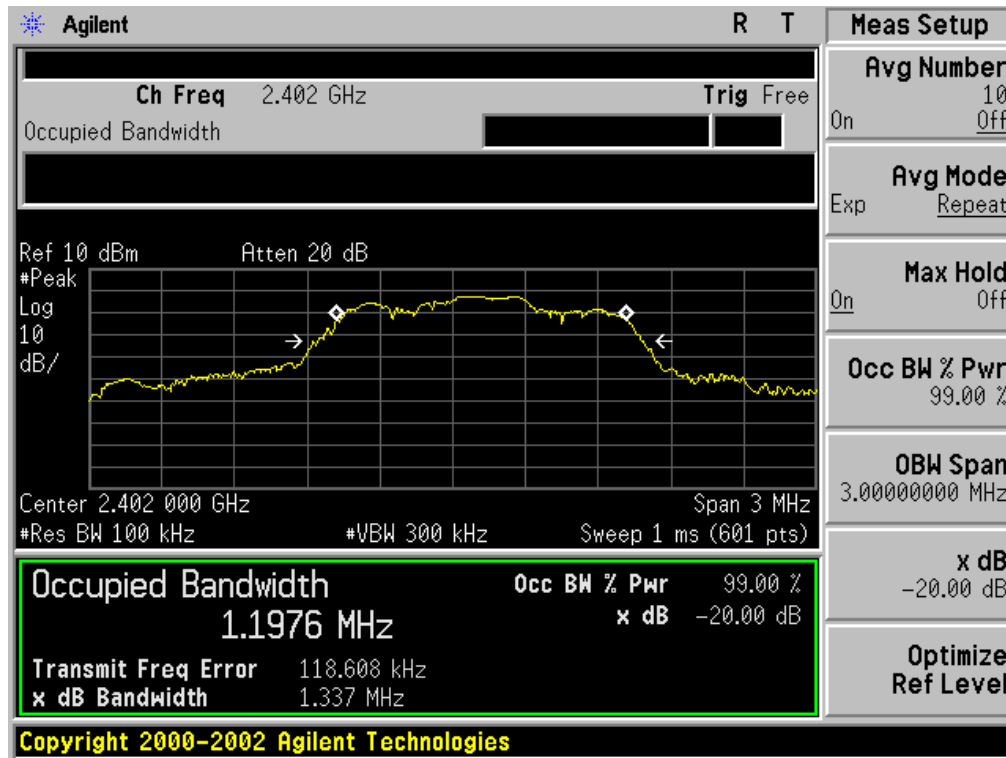
TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



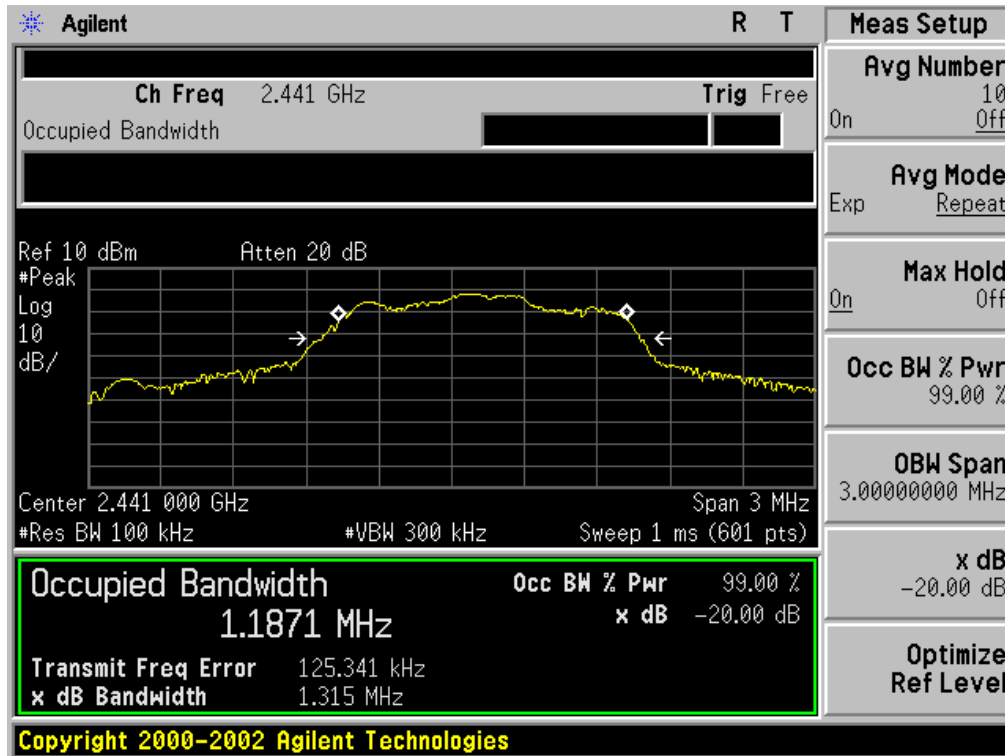


BLUETOOTH 3MBPS LIMITS AND MEASUREMENT RESULT				
Applicable Limits	Measurement Result			
	Test Data (MHz)			Result
		99%OBW (MHz)	-20dB BW(MHz)	
N/A	Low Channel	1.198	1.337	PASS
	Middle Channel	1.187	1.315	PASS
	High Channel	1.193	1.329	PASS

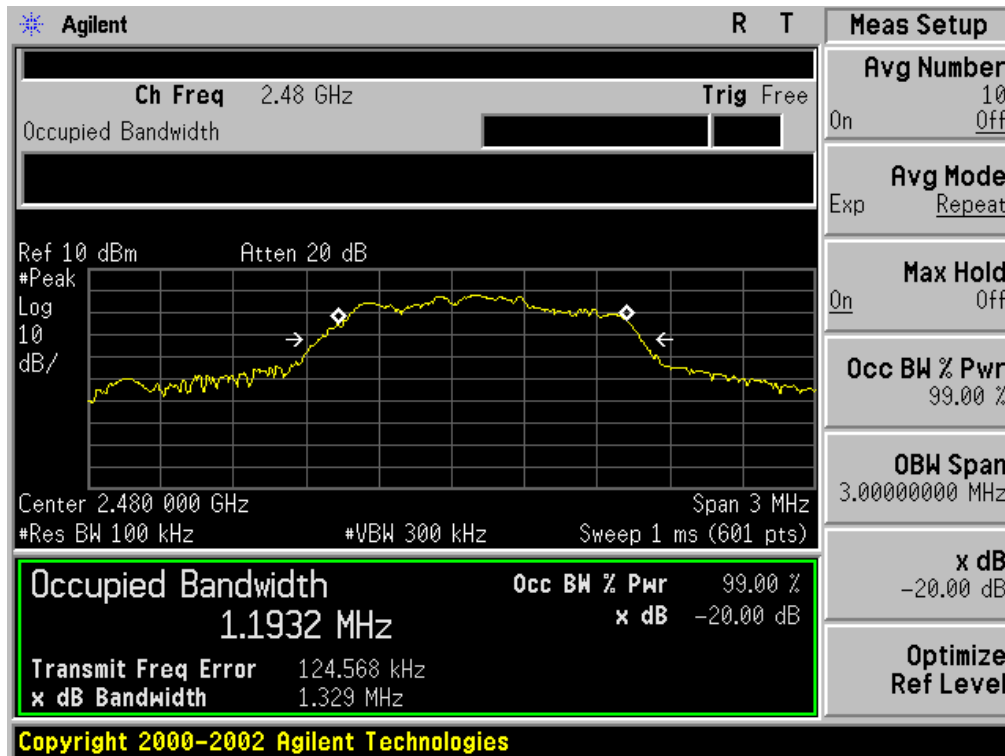
TEST PLOT OF BANDWIDTH FOR LOW CHANNEL



TEST PLOT OF BANDWIDTH FOR MIDDLE CHANNEL



TEST PLOT OF BANDWIDTH FOR HIGH CHANNEL



## 11. FCC LINE CONDUCTED EMISSION TEST

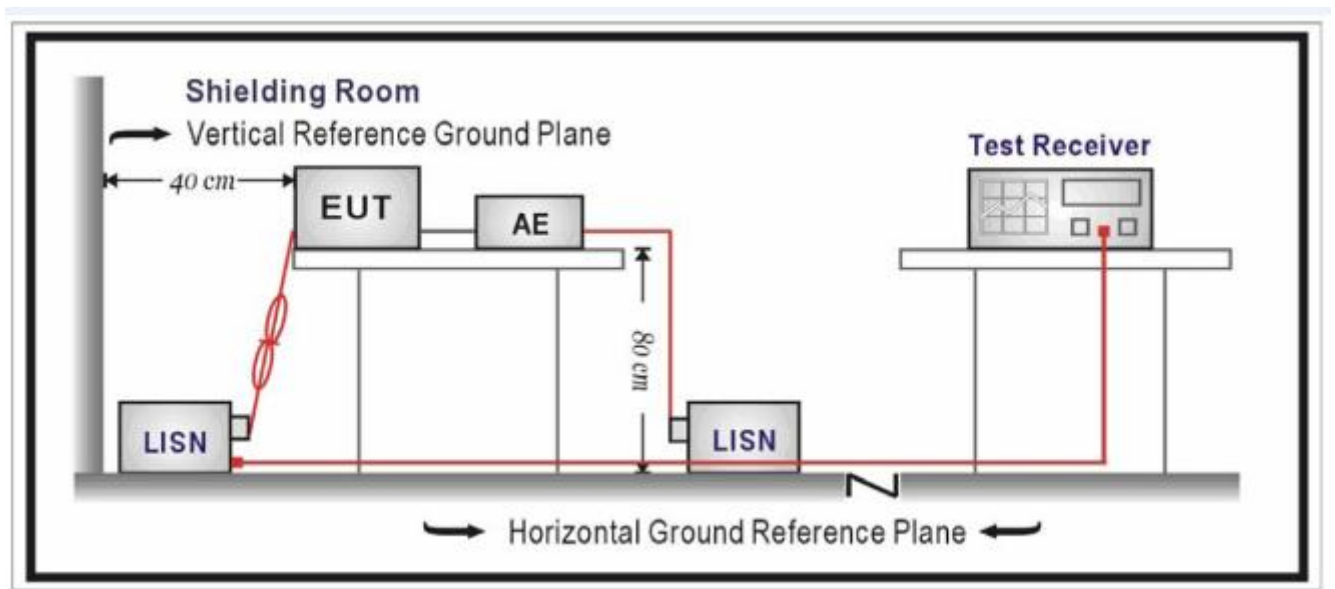
### 11.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Frequency	Maximum RF Line Voltage	
	Q.P.( dBuV)	Average( dBuV)
150kHz~500kHz	66-56	56-46
500kHz~5MHz	56	46
5MHz~30MHz	60	50

Note:

1. The lower limit shall apply at the transition frequency.
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

### 11.2. BLOCK DIAGRAM OF LINE CONDUCTED EMISSION TEST



### **11.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST**

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. All support equipments received AC120V/60Hz power from a LISN, if any.
5. The EUT received DC charging voltage by adapter which received 120V/60Hz power by a LISN.
6. The test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
8. During the above scans, the emissions were maximized by cable manipulation.
9. The test mode(s) were scanned during the preliminary test.

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

### **11.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST**

1. EUT and support equipment was set up on the test bench as per step 2 of the preliminary test.
2. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.
3. The test data of the worst case condition(s) was reported on the Summary Data page.

**11.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST**

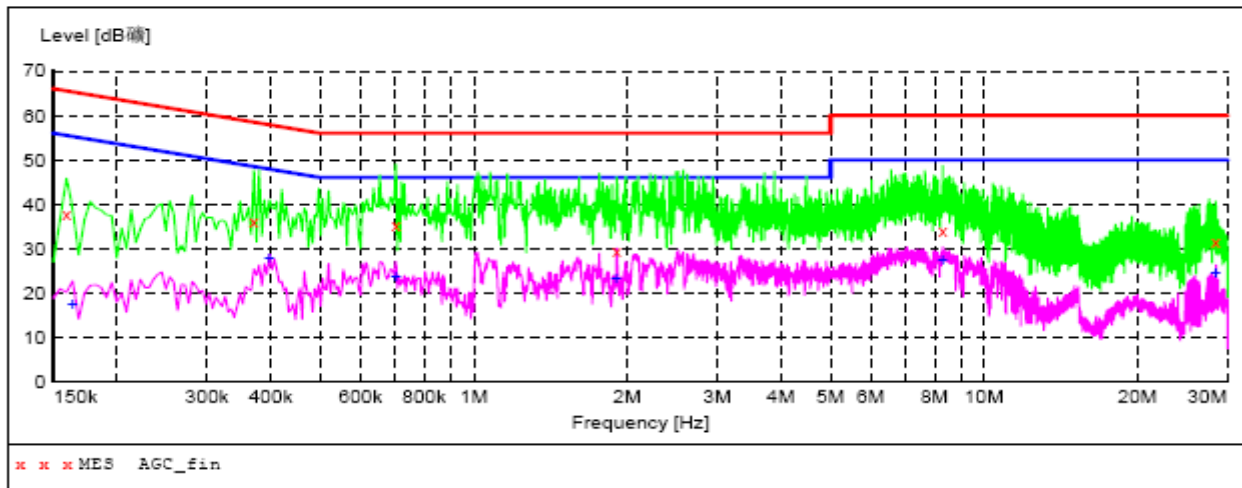
**By adapter(worst case)-1**

**Test Mode: BT Link**

**FOR BR/EDR**

Line Conducted Emission Test Line 1-L

*SCAN TABLE: "Voltage (9K-30M)FIN"*  
Short Description: 9k-30M Voltage



**MEASUREMENT RESULT: "AGC\_fin"**

2016/10/10 16:51

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
0.159000	37.80	10.3	66	27.7	QP	L1	GND	ON
0.370500	36.30	10.3	59	22.2	QP	L1	GND	ON
0.703500	35.10	10.3	56	20.9	QP	L1	GND	ON
1.905000	29.40	10.4	56	26.6	QP	L1	GND	ON
8.299500	34.20	10.7	60	25.8	QP	L1	GND	ON
28.459500	31.70	11.8	60	28.3	QP	L1	GND	ON

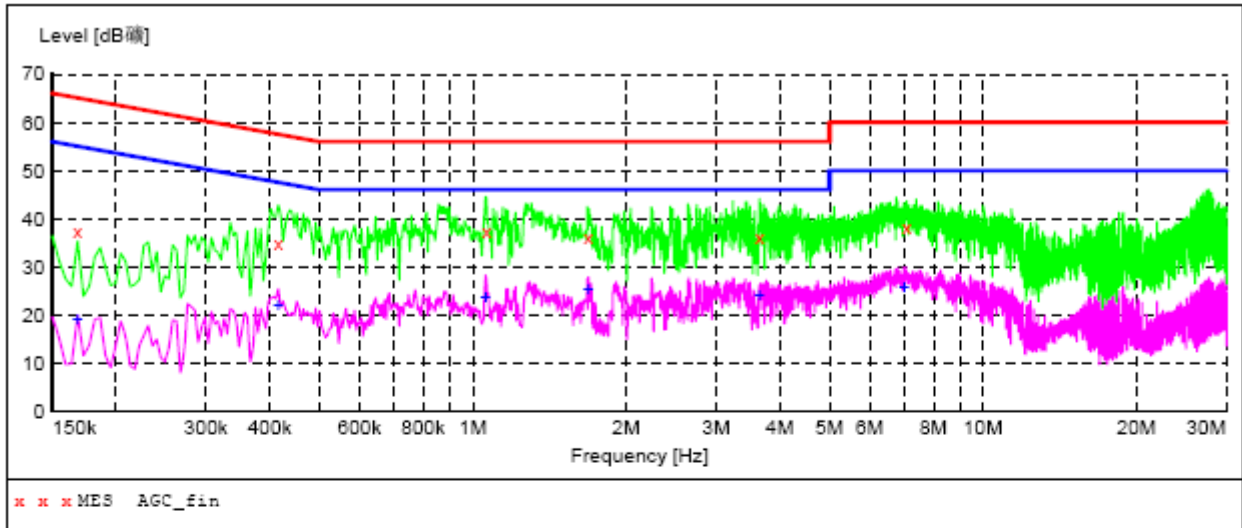
**MEASUREMENT RESULT: "AGC\_fin2"**

2016/10/10 16:51

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
0.163500	17.40	10.3	55	37.9	AV	L1	GND	ON
0.397500	27.70	10.3	48	20.2	AV	L1	GND	ON
0.703500	23.80	10.3	46	22.2	AV	L1	GND	ON
1.905000	23.20	10.4	46	22.8	AV	L1	GND	ON
8.299500	27.30	10.7	50	22.7	AV	L1	GND	ON
28.464000	24.50	11.8	50	25.5	AV	L1	GND	ON

Line Conducted Emission Test Line 2-N

SCAN TABLE: "Voltage (9K-30M)FIN"  
Short Description: 9k-30M Voltage



MEASUREMENT RESULT: "AGC\_fin"

2016/10/10 16:44

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX	STATE
MHz	dBuV	dB	dBuV	dB					
0.168000	37.30	10.3	65	27.8	QP	N	GND	ON	
0.415500	34.90	10.3	58	22.6	QP	N	GND	ON	
1.063500	37.50	10.4	56	18.5	QP	N	GND	ON	
1.684500	36.30	10.4	56	19.7	QP	N	GND	ON	
3.646500	36.30	10.5	56	19.7	QP	N	GND	ON	
7.084500	38.30	10.7	60	21.7	QP	N	GND	ON	

MEASUREMENT RESULT: "AGC\_fin2"

2016/10/10 16:43

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX	STATE
MHz	dBuV	dB	dBuV	dB					
0.168000	19.10	10.3	55	36.0	AV	N	GND	ON	
0.415500	22.20	10.3	48	25.3	AV	N	GND	ON	
1.059000	23.50	10.4	46	22.5	AV	N	GND	ON	
1.684500	25.50	10.4	46	20.5	AV	N	GND	ON	
3.646500	24.00	10.5	46	22.0	AV	N	GND	ON	
7.008000	25.80	10.7	50	24.2	AV	N	GND	ON	

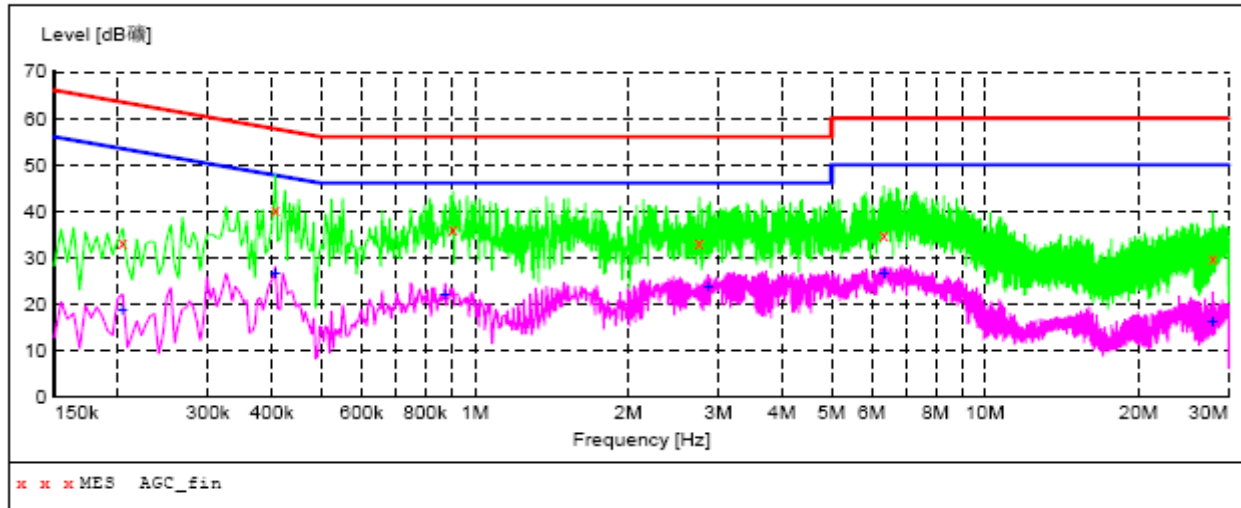
By adapter(worst case)-2

Test Mode: BT Link

FOR BR/EDR

Line Conducted Emission Test Line 1-L

SCAN TABLE: "Voltage (9K-30M)FIN"  
Short Description: 9k-30M Voltage



MEASUREMENT RESULT: "AGC\_fin"

2016/10/10 16:58

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX
MHz	dBuV	dB	dBuV	dB				STATE
0.204000	33.20	10.3	63	30.2	QP	L1	GND	ON
0.406500	40.10	10.3	58	17.6	QP	L1	GND	ON
0.906000	36.20	10.4	56	19.8	QP	L1	GND	ON
2.751000	33.30	10.5	56	22.7	QP	L1	GND	ON
6.333000	34.70	10.6	60	25.3	QP	L1	GND	ON
27.942000	29.80	11.8	60	30.2	QP	L1	GND	ON

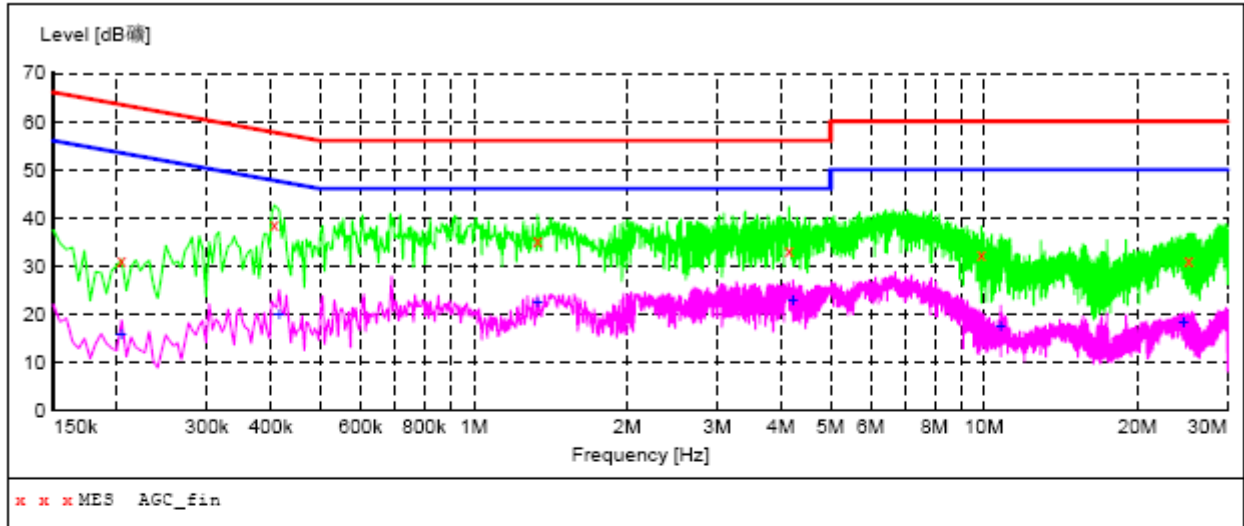
MEASUREMENT RESULT: "AGC\_fin2"

2016/10/10 16:58

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX
MHz	dBuV	dB	dBuV	dB				STATE
0.204000	18.70	10.3	53	34.7	AV	L1	GND	ON
0.406500	26.60	10.3	48	21.1	AV	L1	GND	ON
0.874500	21.90	10.4	46	24.1	AV	L1	GND	ON
2.868000	23.70	10.5	46	22.3	AV	L1	GND	ON
6.342000	26.60	10.6	50	23.4	AV	L1	GND	ON
27.942000	16.30	11.8	50	33.7	AV	L1	GND	ON

Line Conducted Emission Test Line 2-N

SCAN TABLE: "Voltage (9K-30M)FIN"  
Short Description: 9k-30M Voltage



MEASUREMENT RESULT: "AGC\_fin"

2016/10/10 17:03

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
0.204000	31.30	10.3	63	32.1	QP	N	GND	ON
0.406500	38.50	10.3	58	19.2	QP	N	GND	ON
1.333500	35.50	10.4	56	20.5	QP	N	GND	ON
4.150500	33.40	10.5	56	22.6	QP	N	GND	ON
9.870000	32.30	10.8	60	27.7	QP	N	GND	ON
25.210500	31.00	11.9	60	29.0	QP	N	GND	ON

MEASUREMENT RESULT: "AGC\_fin2"

2016/10/10 17:03

Frequency	Level	Transd	Limit	Margin	Detector	Line	PE	AUX STATE
MHz	dBuV	dB	dBuV	dB				
0.204000	15.80	10.3	53	37.6	AV	N	GND	ON
0.415500	20.10	10.3	48	27.4	AV	N	GND	ON
1.333500	22.30	10.4	46	23.7	AV	N	GND	ON
4.222500	22.70	10.5	46	23.3	AV	N	GND	ON
10.783500	17.60	10.8	50	32.4	AV	N	GND	ON
24.643500	18.10	11.9	50	31.9	AV	N	GND	ON



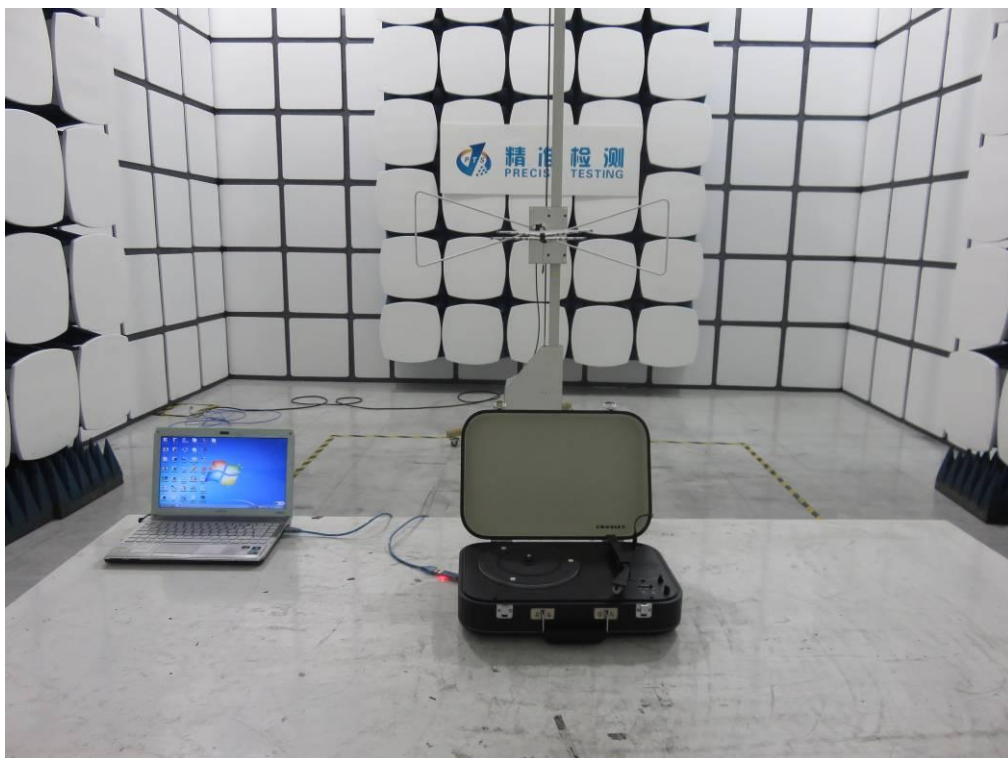
**APPENDIX A: PHOTOGRAPHS OF TEST SETUP**  
FCC LINE CONDUCTED EMISSION TEST SETUP-1

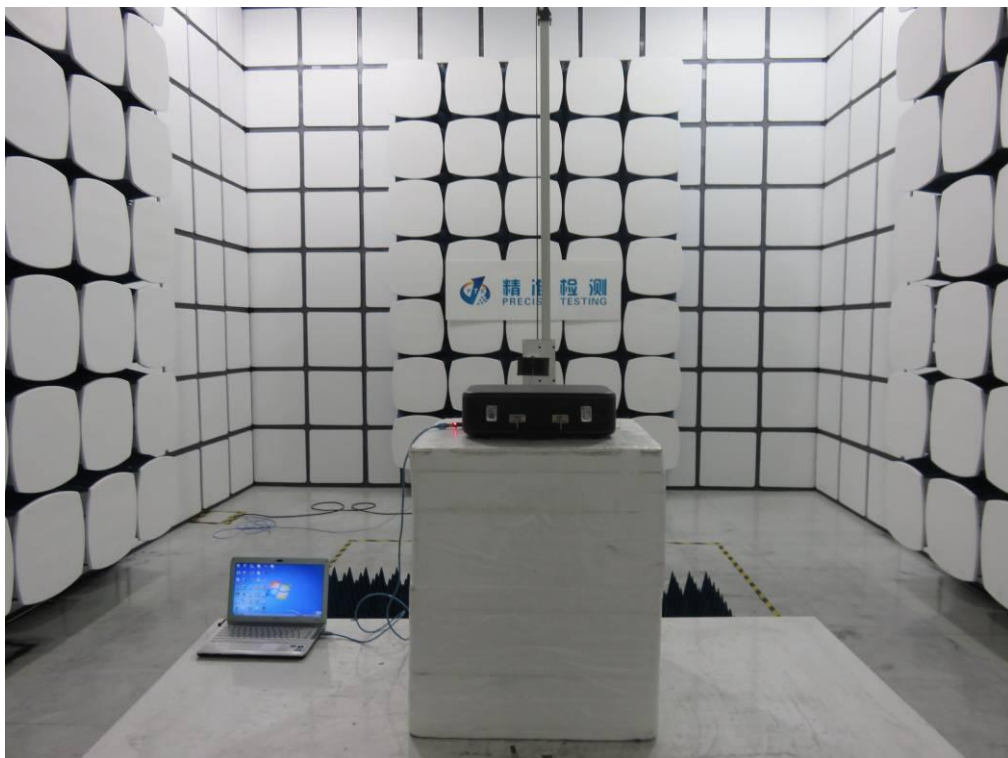
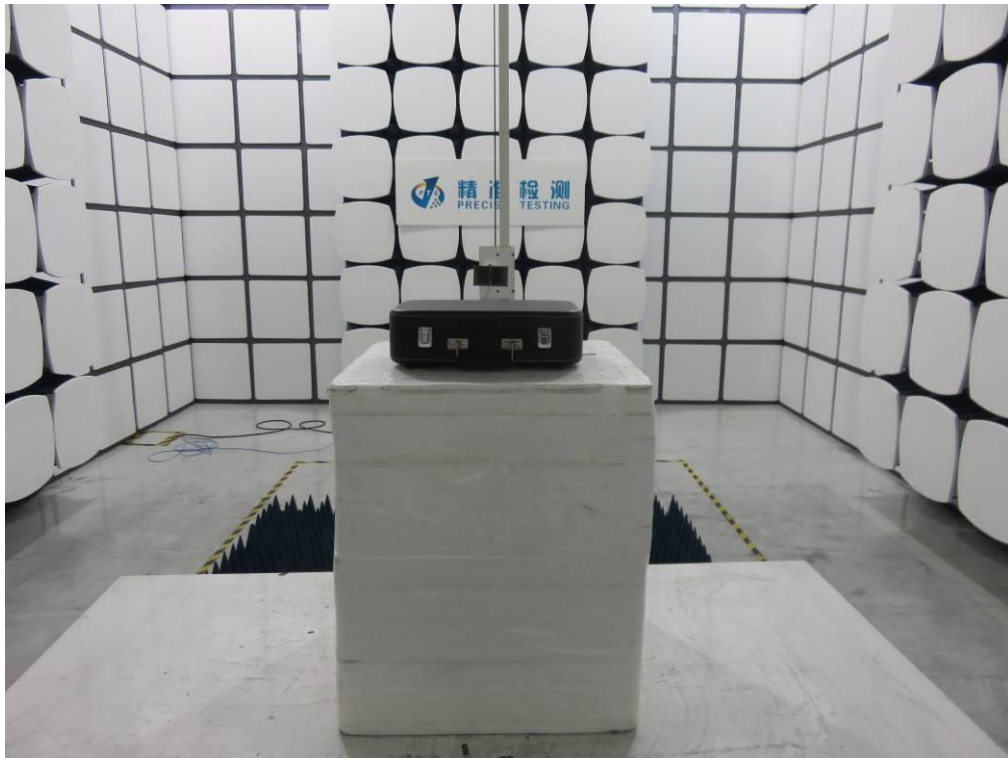


FCC LINE CONDUCTED EMISSION TEST SETUP-2



### FCC RADIATED EMISSION TEST SETUP

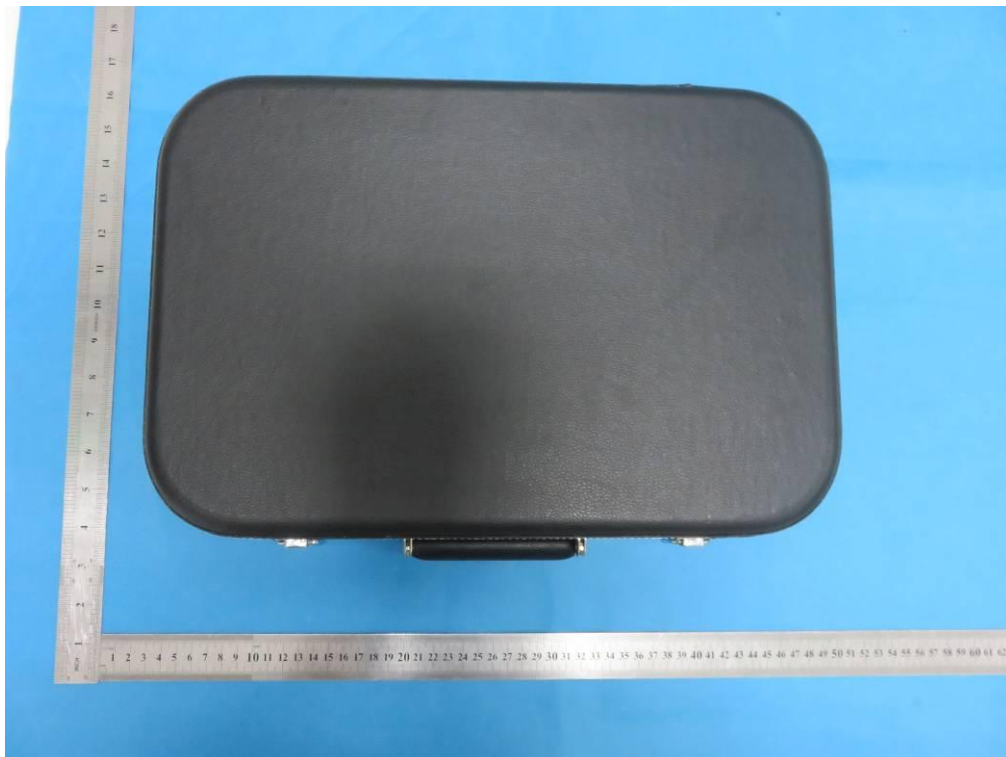




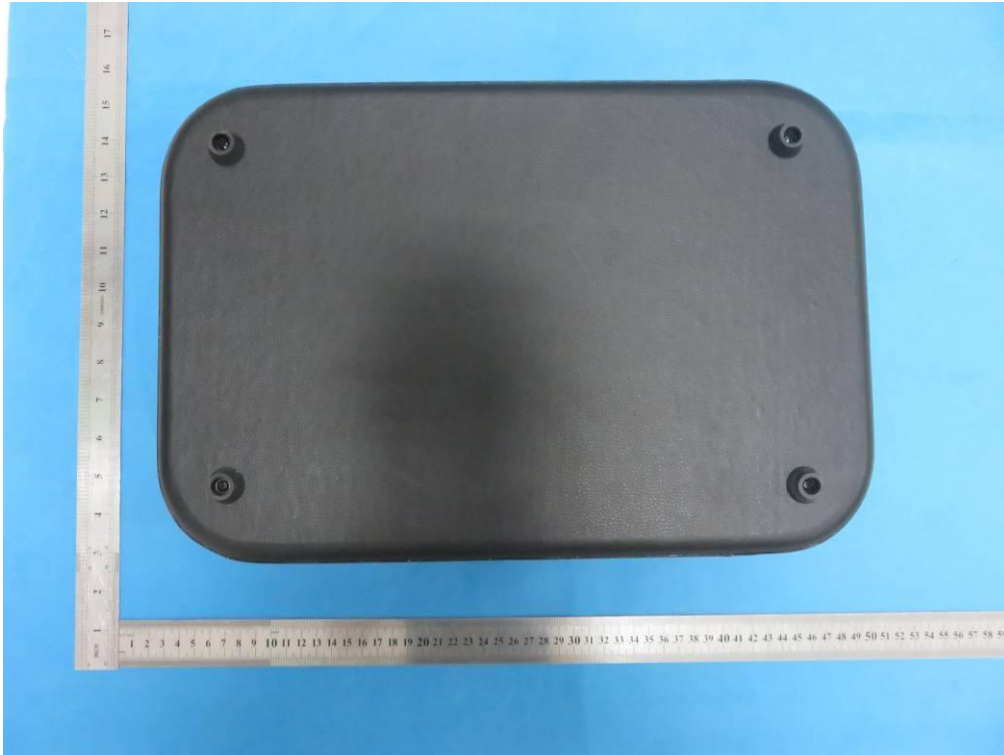
**APPENDIX B: PHOTOGRAPHS OF EUT**  
WHOLE VIEW OF EUT



TOP VIEW OF EUT



BOTTOM VIEW OF EUT



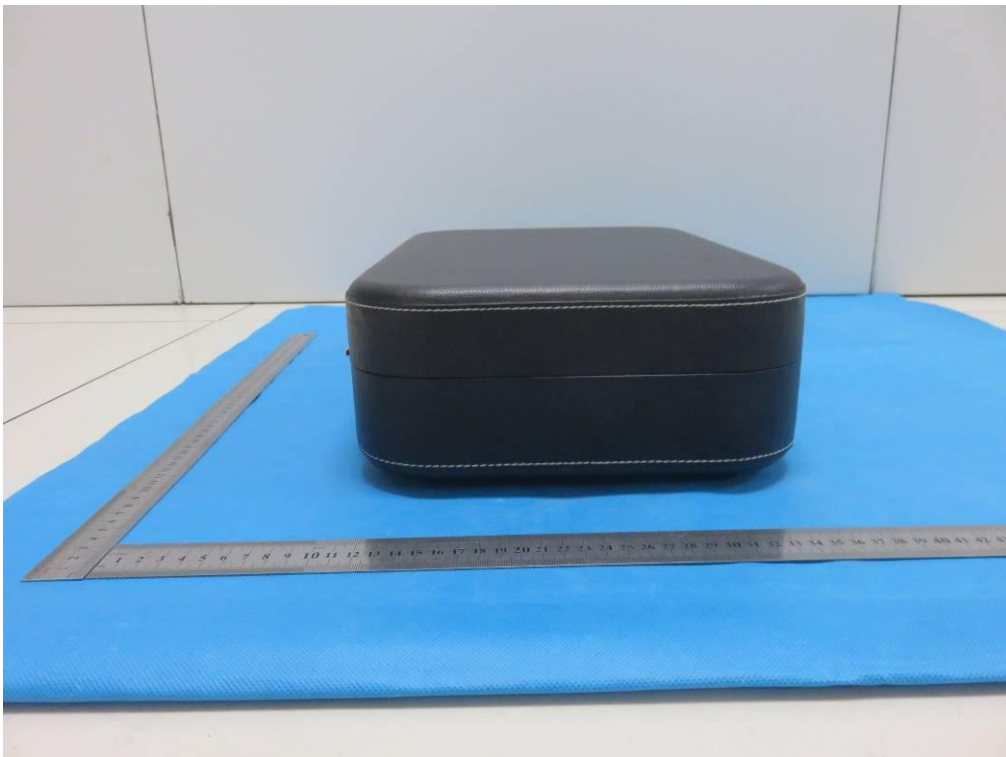
FRONT VIEW OF EUT



BACK VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



VIEW OF EUT (PORT)



OPEN VIEW OF EUT-1

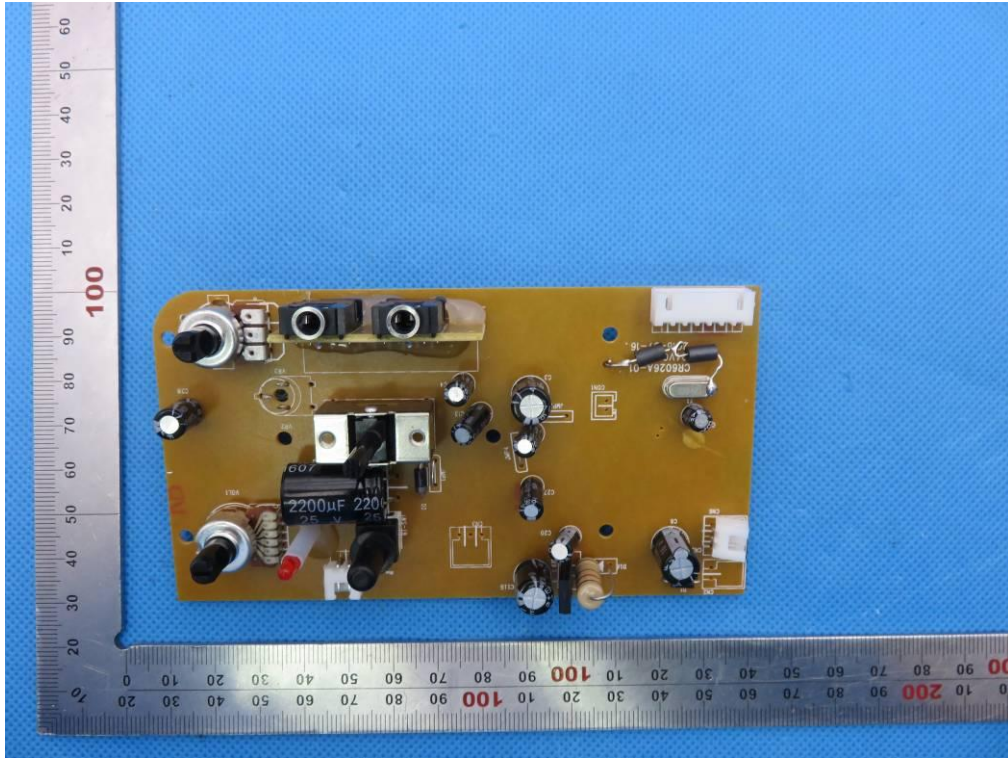


OPEN VIEW OF EUT-2

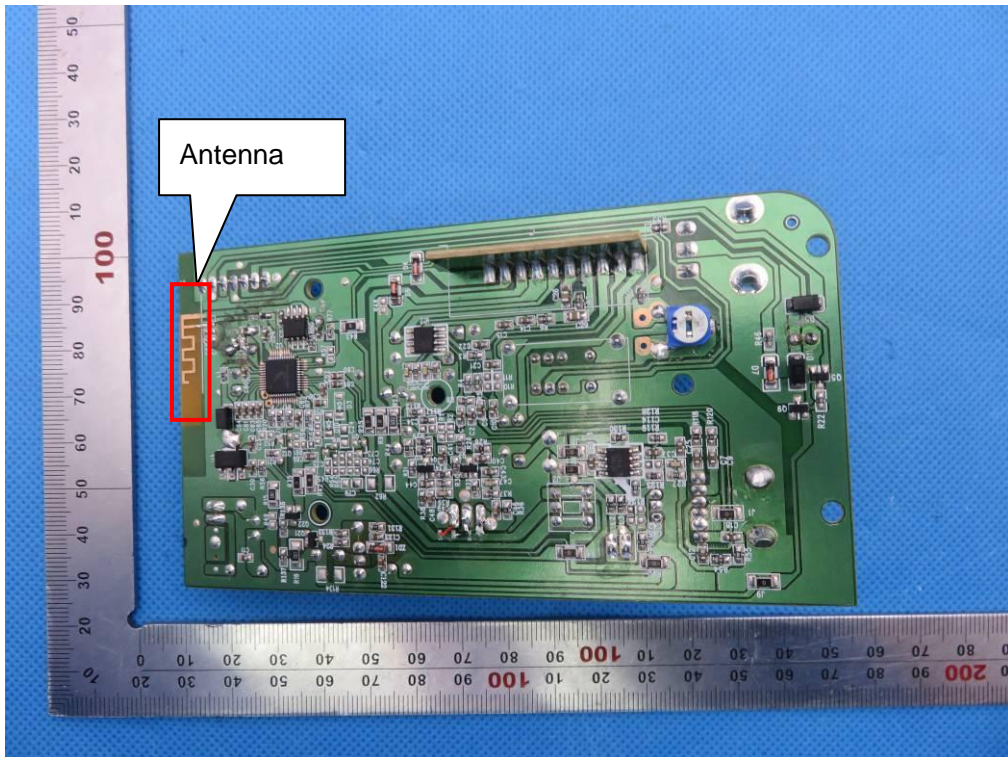




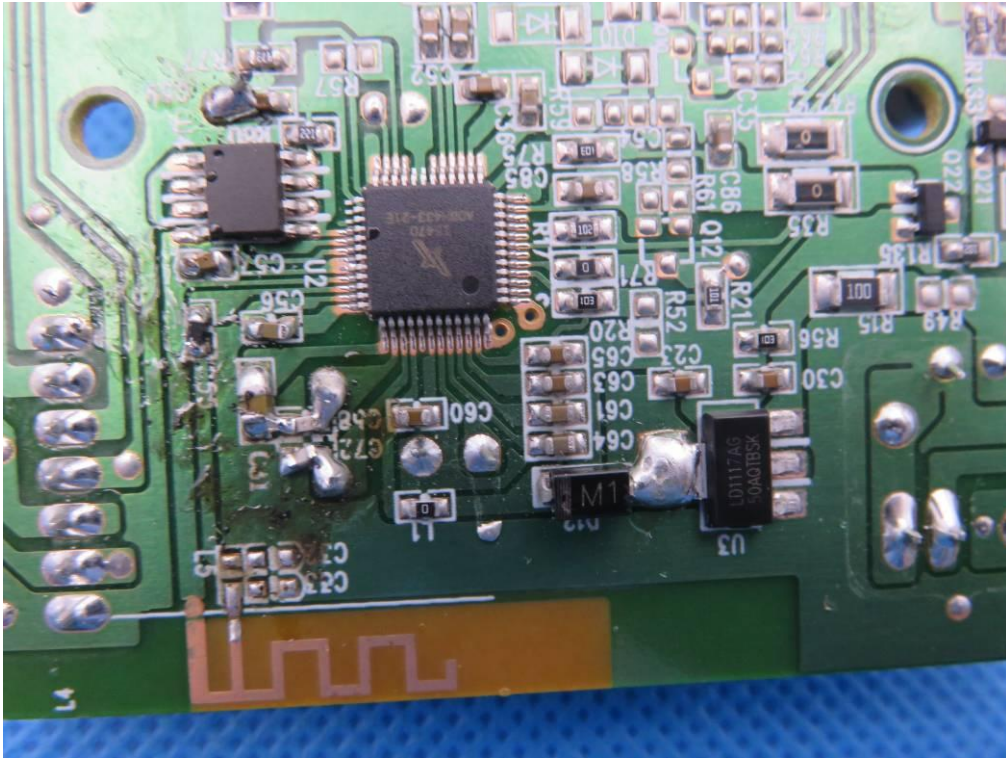
INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



INTERNAL VIEW OF EUT-3



VIEW OF ADAPTER-1





VIEW OF ADAPTER-2





----END OF REPORT----